AEROX HIGH-DURATION AVIATION OXYGEN SYSTEMS

Add to your flying comfort by using oxygen at altitudes as low as 5000 ft. Aerox Oxygen Systems include lightweight aluminum cylinders, regulators, all hardware, flow meter, and nasal cannulas (masks available as option). Aerox Oxygen saving cannulas & Aerox Flow Control Regulators increases the duration of oxygen supply about 4 times, and prevent nasal irritation and dryness. Complete brochure available on request.

500 SERIES REGULATOR — AN AIRCRAFT SPRUCE EXCLUSIVE!

- Low profile
- 1, 2, & 4 place
- Standard Aircraft filler for easy filling
- Convenient top mounted ON/OFF valve
- Equipped with Aerox standard plug sockets
- Over pressure safety valve

COMPLETE AEROX SYSTEMS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-18915</td>
<td>6M</td>
<td>6 outlet, 22 Cu. Ft. Cyl. w/Flow Meters &amp; Cannulas</td>
<td>$521.60</td>
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<tr>
<td>13-18905</td>
<td>6F</td>
<td>6 outlet, 33 Cu. Ft. Cyl. w/Flow Meters &amp; Cannulas</td>
<td>$811.20</td>
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AEROX ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-18910</td>
<td>CC Oxygen Savers Cylinders</td>
<td>$27.65</td>
</tr>
<tr>
<td>13-18935</td>
<td>CR Regular Cylinders</td>
<td>$3.50</td>
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<tr>
<td>13-18970</td>
<td>Metal Clamp Bracket for 13 or 22CFT cyl</td>
<td>$29.75</td>
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<tr>
<td>13-18930</td>
<td>CR-C Reg, Cannula (Cylinder)</td>
<td>$6.85</td>
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<tr>
<td>13-18940</td>
<td>MSK-A Retrreather Mask</td>
<td>$9.97</td>
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<tr>
<td>13-02721</td>
<td>Aerox Oxygen Pendant</td>
<td>$46.75</td>
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<tr>
<td>13-09703</td>
<td>MSK-A Retrreather Mask</td>
<td>$39.75</td>
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<tr>
<td>13-07775</td>
<td>1 Place Regulator With Gauge For 540 Valve</td>
<td>$197.50</td>
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<tr>
<td>13-07775</td>
<td>2 Place Regulator With Gauge For 540 Valve</td>
<td>$228.95</td>
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<tr>
<td>13-07775</td>
<td>4 Place Regulator With Gauge For 540 Valve</td>
<td>$446.00</td>
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<tr>
<td>13-05250</td>
<td>Glo-tec Pressure Gauge</td>
<td>$29.55</td>
</tr>
<tr>
<td>13-04963</td>
<td>Flowmeter with needle valve</td>
<td>$58.75</td>
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</tbody>
</table>

AEROX PRO-02 EMERGENCY HANDHELD OXYGEN SYSTEMS

Provides oxygen until the aircraft can reach a lower altitude. And if Pro-O2 is refillable, there is no need to purchase replacement O2 cartridges. During short flights at altitudes between 12,500ft. MSL and 14,000ft. MSL where maneuvering over mountains or turbulent weather is necessary, the Pro-O2 emergency handheld oxygen system provides oxygen to extend these brief legs. Included with the refillable Pro-O2 is a regulator with gauge, mask and a refillable cylinder.

- Pro-O2-2 (2 Cu. Ft./1 mask) P/N 13-02735 $328.00
- Pro-O2-4 (2 Cu. Ft./2 masks) P/N 13-02736 $360.00

AEROX EMT-3 PORTABLE OXYGEN SYSTEM

A small portable system designed for the occasional user who wants something smaller and less costly than a full portable system. The EMT-3 is also ideal for use as an emergency oxygen system. The system lasts 25 minutes at 2.5 LPM @ 25,000 FT. P/N 13-12773 $323.00

AEROX 4110-712 SERIES OXYGEN MASK WITH MICROPHONE

The 4110-712 Series continuous flow oxygen mask with microphone is intended for crew and passengers in the general aviation industry at a maximum altitude of 25,000 feet. Optional equipment includes industry standard fittings for connection to portable and built-in oxygen systems. FAA 8130 Provided.

BR-M AEROX BRACKET

Bracket Assembly, SS, with Lock, or Cyl Diameter (2 needed per system) P/N: 13-04033 $56.75

AEROX SMOKE GOGGLES

Aerox has introduced Smoke Goggles with face forming elastomer seals to keep smoke out. Aerox Smoke Goggles are the choice of the U.S. Special Forces. The case features reflective tape to make goggles easy to locate as well as a velcro strap on the back for an adjustable fit.

AEROX FBO-1 FILLING STATION

Whether making oxygen or saving it, the Aerox FBO-1 Cascade Filling System makes it easy to fill all types of aviation systems, from portables to jets. The FBO-1 comes complete with 2 CGA 540 cylinder connectors, 6’ high pressure (3000 psi) braided stainless filler line, contents gauge, oxygen filter and adapters to fit Puritan-Bennett, Scott, and CGA 540 filler ports. P/N 13-04534 $360.00

AEROX CGA-540 SINGLE CYLINDER FILLING STATION - Transfills between cylinders quickly and easily. 6’ braided stainless line, gauge, restrictor, and CGA 540 filler. P/N 13-04535 $179.95

OPTIONAL BUILT-IN ADAPTERS

<table>
<thead>
<tr>
<th>Image</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>P/N 13-04536</td>
<td>Aeroc Scott Built-in Adapter Option (Piper, Beech, Mooney)</td>
<td>$60.00</td>
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<tr>
<td>P/N 13-04537</td>
<td>Aeroc Puritan-Bennett Built-in Adapter Option (all other makes)</td>
<td>$121.75</td>
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<tr>
<td>Portable System Filling adaptors for standard CGA 540 supply cylinders</td>
<td>P/N 13-04538</td>
<td>$65.00</td>
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<tr>
<td>Aeroc Puritan-Bennett Portable Adapter Option</td>
<td>P/N 13-04540</td>
<td>$67.00</td>
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</tbody>
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AEROX SEAT BACK DELUXE CARRIER

AEROX DILUTER DEMAND MASK
Comes standard with an electret microphone and an inflatable Quick Comfort head harness that provides maximum comfort. The mask features a carbon fiber construction, and soft silicon rubber. Connectors are available for most built-in systems. This mask is easily mounted with the available carbon fiber stowage cup, aerox® is also able to manufacture a portable walk around system with the same outlet plug that is on your aircraft, so you can easily disconnect from the on-board system and plug directly into a portable system allowing mobility.

P/N 13-12359 ........$3,850.00

PULSE OXIMETER CO DETECTOR 455
Designed for all aircraft with limited panel space. This small pulse Oximeter with CO Detector mounts easily in most panels and transmits data to the MFD’s via RS232. Current MFD manufacturers include Electronics International, Advanced Flight Technologies, Grand Rapids Instruments and on upcoming releases of Avidyne Entegra Release 9. The unit transmits the pilot’s blood oxygen levels, heart rate statistics, CO Level, Cabin temperature and Cabin Altitude to the MFD’s display units. The pilot inserts an index finger in the unit and quickly gets readouts so he/she can determine his/her general physical and his environmental condition. Aero-455 reminds the pilot when he/she passes 10K and every 30 minutes above 10K.

P/N 11-07993 ........$999.00

IOXIMETER SMARTPHONE PULSE OXIMETER
Pulse Oximeter for Smart Phones. Reads Oxygen Saturation. Reads Pulse Rate. No batteries required. Powered through the headphone jack on your phone........P/N 13-17632 ........$48.75

FINGER PULSE OXIMETER
MD300 C201 is intended for noninvasive spot-check measurement of arterial oxygen saturation of arterial hemoglobin(SpO2). It can be used with adult and pediatric and widely used in family, clinic and hospital.

Features: • SpO2%, PR are displayed on screen • Simple and convenient operation • Light, compact( the weight is 50g including batteries) Low power consumption, two AAA batteries can be continuously Operated for 30 hours • Indication of low power consumption • Two display modes

......................P/N 13-05666 ........$89.95

AITHRE ALTUS PORTABLE OXYGEN TANK MONITOR
The first portable oxygen tank monitor that wirelessly pairs to your iOS device for pressure, flow rate, and time-consuming monitoring. Features Siri voice notifications via a paired headset when pressure drops below 500 psi or when threshold altitudes are crossed. The Altus removable straps to your oxygen tank and includes a high pressure T-fitting so you can keep your manual pressure gauge for backup........P/N 11-17393 ..........$189.95

AITHRE ILLYRIAN SMART OXIMETER
The handheld oximeter is usable in aviation, sleep, and mountaineering to provide constant, always on pulse oximeter readings to an iOS device and Apple Watch. SpO2 readings are obtained using a thin sensor pad worn near the ear or on the forehead and then broadcast wirelessly using BLE (Bluetooth Low Energy) to your Apple phone, tablet, watch using the free Aithre Connect app and your experimental avionics when using the companion product Shield EX 3. Power is provided via USB plug and the included long lasting portable power bank. Use up to 6 Ilyrian oximeters simultaneously on the App to monitor you and your passengers’ SpO2 and BPM data throughout the flight.

P/N 11-17595 ..........$124.95

NORAL OXYGEN CANNULA CARRIERS
See www.aircraftspruce.com for our full line of Noral Oxygen Caruana Carriers.

MOUNTAIN HIGH AVIATOR STANDARD CANNULA
Calibrated for use with the MH-4 flowmeter or any other device calibrated to the standard protocol of 1 liter per minute per 10,000 ft. per FAA-FAR 23.1447. This Cannula works great with a headset!

P/N 13-11590 ........$6.50

MOUNTAIN HIGH FLOWMETER MH-4
The MH-4 has two altitude flow scales. The left (compressed) scale is calibrated for the OXIMIZER™ cannula and is limited to flight of 18,000 ft and below. The right scale is calibrated for a standard cannula or facemask up to 25,000 ft.

P/N 13-06128 ..........$79.85

MOUNTAIN HIGH OXIMIZER CANNULA
The OXIMIZER™ type (mustache-style) oxygen-conserving cannula is the most popular version. The Oxymizer is standard issue with our XCR and XCP systems and may work with any adjustable constant flow regulator. P/N 13-11592 ..........$29.85

MH E-Z BREATHE II BOOM CANNULA EDS FOR PULSE DEMAND
Mountain High has redesigned their Boom Cannula system to make it even better. The redesigned nylon boom arm affixes to your headset with a ball mount and adhesive pad. It can swivel about and slides in and out for best fit. The new improved arm incorporates an adjustable friction lock to eliminate slippage. The nasal tips and the entire feed-tube assembly are easily replaceable, as well as the aluminum mount ball. The arm can be easily removed from the headset when not in use. P/N 13-13067 ..........$99.75

MOUNTAIN HIGH ALPS FACE MASK
MH ALPS FaceMask and the MH ALPS-M Face Mask has an electronic "Clear-Speak" ambient noise-canceling microphone that enables pilots to fly with safety and comfort with clear, crisp voice communication and is compatible with most aircraft systems. The mask is easy to put on and exceptionally comfortable as it does not require a polyvinyl bag. The ALPS or the ALPS-M Face Mask can be used with any of the MH Oxygen Systems. Alps Constant Flow Feed Tube Use with MH-4 Flowmeter only

P/N 13-11388 ..........$4.95

P/N 13-13098 ..........$4.85

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>Facemask Med.</td>
<td>13-04155</td>
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<tr>
<td>Facemask M/Small</td>
<td>13-05136</td>
<td>$169.90</td>
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<tr>
<td>Facemask Large</td>
<td>13-05137</td>
<td>$169.75</td>
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<tr>
<td>Facemask w/Mic Small</td>
<td>13-05134</td>
<td>$463.00</td>
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<tr>
<td>Facemask w/Mic Med.</td>
<td>13-05135</td>
<td>$475.00</td>
</tr>
<tr>
<td>Facemask w/Mic Large</td>
<td>13-04156</td>
<td>$475.00</td>
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</tbody>
</table>

NATURAL BOOST OXYGEN
Boost Oxygen is a convenient, lightweight, and portable 95% pure Aviator’s Breathing Oxygen. Perfect for hikers, athletes, and GA pilots flying at high altitude (but still below 12,000 feet), Boost can help you out on your next trip.

Instructions for use:
Place mask under the nose and over the mouth. Press trigger down to activate flow. Breathe deeply through the mouth.

Pocket Size - 2 Liters ........P/N 13-12975 ..........$7.50
(cased of 12) ................P/N 13-12975-1 ..........$7.75
Medium Size - 5 Liters .......P/N 13-21167 ..........$8.99
(cased of 12) ................P/N 13-21167-1 ..........$9.85
Large Size - 10 Liters ........P/N 13-12976 ..........$14.50
(cased of 12) ................P/N 13-12976-1 ..........$17.75
MOUNTAIN HIGH XCP SYSTEMS
The MH-XCP Constant Flow series is our most economical single and multi-place, portable oxygen system for general aviation. Weight is kept to a minimum by our low profile, light weight regulators, MH-3 or MH-4 Flowmeters and Cylinders. The XCP systems come complete with Cylinder (of your choice), Regulator, Mountain High MH-3 or MH-4 Flowmeter, Oxymizer™ cannula, face mask, tote bag and cylinder carry case for easy transport and seat back mounting. Full-Pack. The XCP System can be used up to 25,000 ft. with the MH-4 Flowmeter and Facemask. Choose the MH-3 Flowmeter to flights up to 18,000 ft. Each XCP system comes with:
- Instructions • Cylinder with Valve, Gauge and carry case
- Pressure reducing Regulator with self sealing outlet for each user.
- MH3 or MH4 Flow-Meter (Your choice when ordering)
- Oxymizer (oxygen conserving) Cannula • Facemask • Tote-Bag.

MOUNTAIN HIGH HANDHELD OXYGEN SYSTEM
The CO-PILO2T oxygen system is a small, lightweight, hand-held oxygen system. Precision manufactured in Japan, this unit was especially designed for supplemental breathing while at high altitudes. The regulator has an on/off and volume control knob adjustable from off to a max setting of 2-lit./min. which will last approx. 9 minutes. The removable face mask can be replaced by an optional Oxymizer cannula for continuous "hands off" operation. Each 18 liter replacement cylinder lasts up to 30 minutes at 15,000 ft. The regulator can hold a cylinder for several months without any noticeable drop in pressure. Cylinders can be changed by hand. A weight of cylinder 17oz. Cylinder weight 9.5oz. Each unit includes: AA batteries, 2 standard cannulas, 2 flare tip cannulas, and 2 face masks all in a handy carry bag.

MOUNTAIN HIGH EDS O2D1 OXYGEN SYSTEMS
The EDS-02D1 System enables the general aviation pilot to fly at pressure altitudes up to 25,000 feet with safety and comfort. The EDS-02D1 portable Pulse-Demand™ system reduces Oxygen consumption dramatically. Different from the "standard" constant flow systems, the EDS-02D1 Pulse-Demand™ system wastes no Oxygen during the breathing cycle when oxygen is not being delivered to the lungs. The average user will enjoy a duration increase of two to three times compared to the constant flow systems. The built in Barometer adjusts for Altitude Increase while reducing the plots work load. The unit operates for up to 100 hours on two AA batteries. The EDS-02D1 should be used with any of our XCR, XCP, or 4-place FPR regulator. For correct pressure and oxygen delivery the low-pressure service line is a high quality polyurethane line that is kink-resistant and flexible under varying temperatures. The cannula, face mask and service line connect to the EDS system via color-coded "Quick-Connects" providing an air-tight fitting by hand. These fittings can be connected and disconnected many times.

MOUNTAIN HIGH EDS O2D2 OXYGEN SYSTEMS
The MH-EDS O2D2 Pulse Demand Oxygen Delivery System is the only unit offered, portable, two-place oxygen system currently available for single engine aviation. A variety of options allow you to customize the system to your specific needs. The O2D2 kit comes with (3) AA batteries, 2 standard canisters, 2 flare tip cannulas and 2 face masks all in a handy carry bag.

Note: Our EDS O2D2 and O2D1 are portable systems designed and calibrated to be used with our regulators (~15 psig. dynamic to 25 MAX psig. static). However, if you wish to operate from the outlets of a built-in system, we offer the EDS-STR stabilizing regulator. This will allow our portable EDS systems to operate with built-in systems that supply up to 90 psig.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>00XCP-0046-34</td>
<td>682 liter (24 cu. ft.) 4-place carry-on system with Full-Pack padded cylinder carry-strap down case</td>
<td>13-03657</td>
<td>$1,037.00</td>
</tr>
<tr>
<td>00XCP-0046-32</td>
<td>682 liter (24 cu. ft.) 2-place carry-on system with Full-Pack padded cylinder carry-strap down case</td>
<td>13-03658</td>
<td>$947.00</td>
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<tr>
<td>00XCP-0046-31</td>
<td>682 liter (24 cu. ft.) 1-place carry-on system with Full-Pack padded cylinder carry-strap down case</td>
<td>13-03659</td>
<td>$656.00</td>
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<td>00XCP-0060-34</td>
<td>415 liter (15 cu. ft.) 4-place carry-on system with Full-Pack padded cylinder carry-strap down case</td>
<td>13-03660</td>
<td>$904.00</td>
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<td>00XCP-0060-32</td>
<td>415 liter (15 cu. ft.) 2-place carry-on system with Full-Pack padded cylinder carry-strap down case</td>
<td>13-03661</td>
<td>$737.00</td>
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<td>00XCP-0060-31</td>
<td>415 liter (15 cu. ft.) 1-place carry-on system with Full-Pack padded cylinder carry-strap down case</td>
<td>13-03662</td>
<td>$554.00</td>
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<tr>
<td>00XCP-0054-31</td>
<td>180 liter (6 cu. ft.) 1-place carry-on system with Full-Pack padded cylinder carry-strap down case</td>
<td>13-03663</td>
<td>$536.00</td>
</tr>
</tbody>
</table>

Model Description Part No. Price
00XCP-0008-01 EDS-02D1 with CFF-480 Silica Cylinder and XCR-540 regulator with tote bag - 1 Place 13-02387 $219.95
00XCP-0008-02 Single 18 liter Replacement Cylinder - 1 Place 13-02222 $26.50
Pack of 3 18 liter Replacement Cylinders - 3 Place 13-13093 $74.95

00EDS-02D1-01 Oxygen Controller 13-01879 $767.00

00XCP-0054-31 EDS-02D2 with Full-Pack padded cylinder carry-strap down case 13-03663 $536.00

MOUNTAIN HIGH TRANSFILLER UNITS
TR-55 00GSE-1008-00 Standard length 18 inches. The TR-55 is the most economical way to fill your cylinder. One side has a CGA-540 nut & nipple with an O-ring seal, while the other end is equipped with a large hand nut with bare nipple. This allows you to slowly and safely bleed the line so the fittings can be easily removed from the cylinder. P/N 13-03923 $170.00

TR-75B 00GSE-1012-00 Standard length 24 inches. The TR-75B is our most popular personal transfiller. It is equipped with O-ring seals on both of the CGA-540 (oxygen) ends for a positive and air-tight fit by hand. A handy bleed valve is included to relieve the pressure in the system so that the fittings can be easily removed from the cylinder without damage to the O-ring seals. P/N 13-03924 $250.00

TR-95B 00GSE-1016-00 Standard length 48 inches. The TR-95B is an economical transfilling system for soaring and flying clubs where many cylinders are serviced frequently. Both connecting ends have O-ring seals for a positive air-tight fit. The pressure/contents gauge shows how much oxygen remains in the cylinder. P/N 13-03925 $250.00

02 TRANSFILLER FBO KIT - The standard kit comes with a non-stylized regulator, and the four most common fill adapters that you will need. Incorporates a flow restrictor to prevent filling too fast, as well as built-in filters. All Components are cleaned and ready for Oxygen use. With 8 ft. Hose.................................................. P/N 13-14949 $1,289.00 Without Hose.................................................. P/N 13-12735 $1,155.00

TA-916-S Adapts CGA-540 to the Scott fitting (9/16-18 threads). Commonly known as the Scott 26875, 5020-1 Airline or AS1046 fitting. A socket is on the CGA-540 end to attach to transfiller lines. P/N 13-14773 $177.75

WWW.AIRCRAFTSPRICE.COM 921

Prices Subject to Change Without Notice
**SOLOPACK PERSONAL OXYGEN PACK**
The ALL-IN-ONE SOLO Pack with A-5 Flow Meter and ALL-IN-ONE Connector Kit is a complete and simple oxygen kit for the pilot and/or passenger. The Connector Kit allows you to connect to virtually all general aviation aircraft. This package includes a standard face mask, Oxymizer Cannula, A-5 Flow Meter, and FLOWGLOW to illuminate your flow meter in the dark. Includes all necessary tubing and connectors.
P/N 05-14888 ........ $169.75

**PILOTPACK PERSONAL OXYGEN PACK**
The PILOTPack with ALL-IN-ONE Connector Kit is the perfect solution for the pilot who needs complete breathing gear AND a Mic Mask. The ALL-IN-ONE Connector Kit allows you to connect to virtually all general aviation aircraft and the comfortable silicone Mic Mask ensures crystal clear communication when flying at high altitudes. This convenient ALL-IN-ONE package includes: the Comfort Mic Mask, Oxymizer Cannula, the popular A-5 Flow Meter, and a FLOWGLOW to illuminate your flow meter in the dark. Includes all necessary tubing and connectors.
P/N 05-14890 ........ $579.00

**PLANE PACK - 4 PERSON**
The PLANEpack with ALL-IN-ONE Connector Kits is a versatile kit that fits a number of passengers and/or pilots with all the breathing gear they need. The Connector Kits allow you to connect to the majority of General Aviation planes flying today. In the box: • 4 - A-5 Oxygen Flow Meter With Tubing • 2 - Comfort Microphone Mask with Premium Mic • 4 - Oxymizer Cannula For Use With Flow Meters • 2 - Standard Face Mask - Certified to 25,000 Feet • 4 - ALL-IN-ONE Connector Kit • 4 - FLOWGLOW for use with A-5 Flow Meter • 2 - Oxygen Equipment Bag - PFI • 1 - Pulse Oximeter...P/N 05-14896 .......... $2,064.00

**PLANE PACK - 6 PERSON**
The PLANEpack with ALL-IN-ONE Connector Kits is a versatile kit that fits a number of passengers and/or pilots with all the breathing gear they need. The Connector Kits allow you to connect to the majority of General Aviation planes flying today. In the box: • 6 - A-5 Oxygen Flow Meter With Tubing • 2 - Comfort Microphone Mask with Premium Mic • 6 - Oxymizer Cannula For Use With Flow Meters • 4 - Standard Face Mask - Certified to 25,000 Feet • 6 - ALL-IN-ONE Connector Kit • 6 - FLOWGLOW for use with A-5 Flow Meter • 3 - Oxygen Equipment Bag - PFI • 1 - Pulse Oximeter...P/N 05-14897 .......... $1,876.00

**OXYPACK1 - 2 PERSON OXYGEN SYSTEM**
In the box: • 1 - 6.3 CU. Ft. Aluminum Oxygen Cylinder • 1 - Carrying Case With Shoulder Strap • 2 - A-5 Oxygen Flow Meter With Tubing And CPC Connector • 2 - Oxymizer Cannula For Use With Flow Meters • 2 - Standard Face Mask - Certified to 25,000 Feet • 1 - Two-Person Oxygen Pressure Regulator...P/N 05-14892 ........ $599.00

**OXYPACK2 - 2 PERSON OXYGEN SYSTEM**
In the box: • 1 - 15 CU. Ft. Aluminum Oxygen Cylinder • 1 - Carrying Case With Seatback Harness • 2 - A-5 Oxygen Flow Meter With Tubing And CPC Connector • 2 - Oxymizer Cannula For Use With Flow Meters • 2 - Standard Face Mask - Certified to 25,000 Feet • 1 - Four-Person Oxygen Pressure Regulator...P/N 05-14893 ........ $799.00

**OXYPACK3 - 2 PERSON OXYGEN SYSTEM**
In the box: • 1 - 22 CU. Ft. Aluminum Oxygen Cylinder • 1 - Carrying Case With Seatback Harness • 2 - A-5 Oxygen Flow Meter With Tubing And CPC Connector • 2 - Oxymizer Cannula For Use With Flow Meters • 2 - Standard Face Mask - Certified to 25,000 Feet • 1 - Four-Person Oxygen Pressure Regulator • 4 - FLOWGLOW for use with A-5 Flow Meter...P/N 05-14894 ........ $899.00

**OXYPACK4 - 2 PERSON OXYGEN SYSTEM**
In the box: • 1 - 22 CU. Ft. Aluminum Oxygen Cylinder • 1 - Carrying Case With Seatback Harness • 4 - A-5 Oxygen Flow Meter With Tubing And CPC Connector • 4 - Oxymizer Cannula For Use With Flow Meters • 2 - Standard Face Mask - Certified to 25,000 Feet • 1 - Four-Person Oxygen Pressure Regulator • 4 - FLOWGLOW for use with A-5 Flow Meter...P/N 05-14895 ........ $1,099.00

**X3 SOLO PACK**
Pilot tested and pilot approved! The X3 Demand Conserver is the best demand conserver in the aviation industry. The X3 Demand Conserver is the only fully mechanical demand conserver (no batteries required). By giving you oxygen only when you “demand” it, the X3 will extend the duration of your oxygen supply by at least 300%. The X3 Solo Pack includes everything you need, including a dual lumen cannula, dual lumen mask, connectors, and tubing. The X3 is STC’d for Cirrus and certified up 25,000 feet.
P/N 05-14899 ........ $899.00

**X3 PILOT PACK**
This package includes the X3 Demand Conserver PLUS a Comfort Mic Mask certified up to 25,000 feet! The X3 Demand Conserver is the only fully mechanical demand conserver (no batteries required). By giving you oxygen only when you “demand” it, the X3 will extend the duration of your oxygen supply by at least 300%. This X3 Pack includes everything you need PLUS a Comfort Mic Mask for crystal clear communications at high altitudes. Includes: dual lumen cannula, dual lumen Mic Mask, connectors, and tubing. The X3 is STC’d for Cirrus and certified up 25,000 feet.
P/N 05-14891 ........ $1,328.00
**GROUND SUPPORT TOW BARS**

**CESSNA** - This two piece telescoping tow bar fits all Cessnas with 5/8" lugs on nosegear. Overall length 42.5", collapsed 24". P/N 13-01800 $61.75

**MOONEY** - A simple “T” handle design for the Mooney axle. Overall length 33.5". P/N 13-02000 $61.95

**CHEROKEE** - This one piece tow bar has a retractable locking mechanism that gives a positive lock when installed. Overall length 31". P/N 13-01600 $58.95

**BEECHCRAFT** - The compact design of this tow bar makes it very popular among Beech owners. Overall length 38", collapsed 21.5". P/N 13-01900 $59.75

**ARROW** - This offset “T” handle design fits into the Arrow axle making it a simple and easy design to use. Overall length 33". P/N 13-01700 $61.75

**TWIN CESSNA** - The extra length provides extra nose clearance and leverage for Twin Cessnas and remains very compact. Overall length 55", collapsed 34". P/N 13-01850 $61.95

**TWIN PIPER (HH-007)** Piper Twin Comanche, Apache, Aztec, and Navajo Towbar. Two section until 28" collapsible, 49-1/2" overall length. P/N 13-01778 $59.95

**COMANCHE** - The same as our P/N HH-007 except one piece construction. Overall length 33". P/N 13-02100 $61.75

**DELUXE CESSNA** - The deluxe Cessna towbar is very popular and designed for those who demand the ultimate in convenience and durability. Spring loaded forks allow easy one handed engagement without getting on your hands and knees. Length 45.5" extended, 26" collapsed. Wt. 3.75 lbs. Ideal for Cessna RGs Including 210 series. P/N 13-01540 $73.75

**DUTCHESS/PIPER** - Fits Dutchess and Piper nose gear axle. Telescoping design provides extra nose gear clearance. Overall length 48", collapsed 28". P/N 13-02210 $63.75

**RV-A M-340-026** - Two piece spring loaded design. 26" collapsible, 43" overall. Code 7. P/N 13-18476 $73.50

**DELUXE PIPER** - The deluxe Piper towbar offers all the features of a standard Piper towbar plus the convenience of a two-piece design. When extended, this model provides additional propeller clearance and leverage. Length: 42" extended, 23" collapsed. Wt. 3.5 lbs. P/N 13-01550 $74.75

**UNIVERSAL TOW BAR WITH CLEVIS HITCH**

**CESSNA/BEECH/MOONEY** - This universal tow bar is excellent for use with tug, tractor, or by hand. It fits most Cessna singles & twins with 5/8" lugs, Beech singles and twins with 1/4" lugs, all Mooneys, Twin Commanders, Lake and Commanche. Slide lock quickly adjusts and holds firmly. P/N 13-02350 $188.95

**PIPER** - Same design as the universal tow bar above, this towbar fits Piper single fork design, Arrow, Malibu, Lance, Seneca, and Seminole. Slide lock quickly adjusts and holds firmly. P/N 13-02351 $180.95

**SCOTT TAILWHEEL** - A tow bar designed for aircraft using a Scott 3000 series tailwheel. Overall length 48", collapsed 28". P/N 13-02205 $73.75

**BEECHCRAFT AXLE** - Its collapsible design makes it easy to fit in the baggage area. Collapsible Length: 26" Overall Length: 43". P/N 13-02150 $69.95

**CHEETAH/CIRRUS** - This tow bar is designed to fit Grumman aircraft. Its collapsible design makes it easy to fit in the baggage area. Overall length 43", collapsed 26". P/N 13-02200 $74.95

**ERCOUPE** - Specially designed for Ercoupes. This tow bar has a spring loaded lever action for ease of operation. Overall length 46.5", collapsed 28.5". P/N 13-01580 $72.75

**1-1/8" AXLE** - This is a universal tow bar designed for aircraft with 1-1/8" axles such as Cessna, Skymaster and Piper Seneca. Overall length 56", collapsed 33". P/N 13-02110 $77.75

**COMMANDER** - This model fits Rockwell 112 and 114. Spring loaded forks for ease of operation. Overall length 46.5", collapsed 28.5". P/N 13-01570 $74.95

**DELUXE MOONEY** - The deluxe Mooney towbar is a longer, two piece version of a standard Mooney towbar. Attractive black caps accentuate deluxe appearance. Length: 38", collapsed 21" Wt. 3 lbs. P/N 13-01500 $82.75

**UNIVERSAL** - For the FBO this is an ideal hand held universal tow bar. Fits Cessna, Beech, Piper, Scott Tailwheel and many others. Overall length 57", collapsed 34". Fits aircraft with 5/8" lug on the nose gear strut. P/N 13-02250 $104.75

**VIKING** - Designed especially for Bellanca Viking axle. Collapsible design and spring loaded fork. Overall length 46.5", collapsed 28.5". P/N 13-02220 $86.75

**DELUXE BEECHCRAFT** - Spring loaded forks for ease of operation. Overall length 47", collapsed 28". P/N 13-01905 $79.95

**AERO-TOW CIRRUS TOWBAR** - This Cirrus Towbar is designed specifically to fit the gear of the Cirrus Aircraft. At just 6 lbs and a shipping box of 1-3/4" x 12" x 39" you will find this to be a quick and easy stowaway. P/N 13-7597 $185.00

**FBO UNIVERSAL TOW BAR WITH RING HITCH T-100**

This heavy duty universal tow bar is standard equipment for FBOs. Fits most Piper, Cessna, Beech, Mooney, AeroCommander, and many others. The adjustable fork allows you to extend the fork assembly from 3" to 10". This tow bar is extra long at 7 ft, 6 inches. The T-100 is not made for specific aircraft. It has spring loaded adapters that will fit and 1/4" to 5/8" towpins on the aircraft axle. This will not work with aircraft that have tow pins on the landing gear.

P/N 13-03235 $257.95

**AIRCRAFT WINCH & MOUNTING KIT**

**AIRCRAFT WINCH** - Floor mounting aircraft winch with hook cable to tail down ring and press button operation. Easily moves aircraft up to 3,000 lbs. rolling weight. Comes with 100' of cable and 75' of control cord and has an automatic safety shut off. Cable speed is 30 feet per minute. Voltage 100 AC. Floor mount is required for operation (sold separately), Part No. 13-06124 $494.00

**HEAVY DUTY AIRCRAFT WINCH** - Winch includes metal wind up drum, 100' of cable 125' of control cord. Moves aircraft up to 6,000lbs. Includes a wall mount. If floor mount is desired P/N 13-06124 must be ordered. Code 7 P/N 13-06125 $469.00

**AIRCRAFT WINCH MOUNTING KIT** - Aircraft Winch Mounting Kit Everything you need to secure the winch to the floor. Mounting kit only. Can be used with P/N’s 13-01764 and 13-06125 in a floor mount is desired. P/N 13-06124 $68.75
BOGERT TOW BARS (BOGI-BARS)

Light enough to stow. Built from a combination of steel for maximum durability comfort grips on the handle and spreader bar, chip resistant red bar will look great for years. Operation: extend the handle easily with high shear wick release pin apply forward pressure on the spreader bar to open the wishbone jays. Line up the Bogi-Bar attachment at the tow points or axle depending on model. Release the tension on the spreader bar and you are locked on! The tow bar will not slip off the plane. Reverse for removal.

TOW BARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Fits</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>4-35</td>
<td>Beechcraft-Bonanza, Debonair, Duchess, Duke &amp; Skipper</td>
<td>13-10030</td>
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<td>4-19/23B</td>
<td>Beechcraft-Musketeer, Sport, Super, Sierra &amp; King Air</td>
<td>13-01808</td>
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<tr>
<td>4-17/30</td>
<td>Bellanca-Viking Series</td>
<td>13-01809</td>
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<td>4-172</td>
<td>Cessna 150, 152, 172, 175, 177, 182, 310R, RV-4</td>
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<td>4-206</td>
<td>Cessna 200, 205 &amp; 237</td>
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<tr>
<td>4-210</td>
<td>Cessna 172RG, 177RG, 182RG &amp; 210 Series</td>
<td>13-10050</td>
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<tr>
<td>4-182-XL</td>
<td>Cessna 182 S (1996 and up) and T (2001 and up) models with long noses</td>
<td>13-11389</td>
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<tr>
<td>4-SR</td>
<td>Cirrus SR 20 &amp;22</td>
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<td>4-AA</td>
<td>Gulfstream American AA1 &amp; AA5</td>
<td>13-02407</td>
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<td>4-Lake</td>
<td>Lake Amphibian</td>
<td>13-02411</td>
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<td>4-Moon</td>
<td>Mooney Aircraft</td>
<td>13-01810</td>
<td>$225.00</td>
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<tr>
<td>4-24/30</td>
<td>Piper Comanche PA-24, PA-30 &amp; PA-39 Also the Cherokee Six axle w/pants if tabs above wheel are broken</td>
<td>13-10010</td>
<td>$225.00</td>
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<tr>
<td>4-22/28</td>
<td>Piper PA-22 &amp; PA-28 Series (No PA-28R)</td>
<td>13-10020</td>
<td>$225.00</td>
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<tr>
<td>4-28R</td>
<td>Piper PA-28R Series - Hand Pull for dog-leg style</td>
<td>13-02098</td>
<td>$34.95</td>
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<tr>
<td>4-34</td>
<td>Piper Seneca PA34 200/220/220T, and Aerostar 601P “handle extends to 78”</td>
<td>13-01812</td>
<td>$379.00</td>
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<tr>
<td>4-PA46</td>
<td>Piper Malibu &amp; Mirage - Vehicle Pull</td>
<td>13-06112</td>
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<tr>
<td>4-RVA</td>
<td>Vans - RV6A, RV7A, RV8A, &amp; RV9A</td>
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<td>4-LANCE</td>
<td>Lance Towbar</td>
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<td>4-Socata</td>
<td>Socata Style Bogi Bar</td>
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<tr>
<td>4-Navion</td>
<td>Navion Aircraft</td>
<td>13-21892</td>
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</table>

BOGI BAR EXTENDED T-HANDLE

Includes new grips and is 7” longer than the standard Bogi Bar T-Handle. The extra length can be quite beneficial for aircraft with extra-long noses like the Cessna 182 S (1996 and up) and T (2001 and up) models. Tall customers will find this T-Handle easier on the back since it lowers that overall angle of the tow. The Extended T-Handle works with any of the standard Bogi-Bars and will increase the overall length to about 55”.

Model 4-TXL:...P/N 13-11199...$75.00

CUSTOM TOWBARS & OPTIONS FOR UNIVERSAL TOW BARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>TWA-10</td>
<td>Scott Tail Wheel Adapter (2 pcs. req.)</td>
<td>13-10089</td>
<td>$22.55</td>
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<tr>
<td>T-MU2-10</td>
<td>Kit-Crank &amp; head assembly for converting CR-34 to TR-44</td>
<td>13-01890</td>
<td>$144.75</td>
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<td>TWA-11</td>
<td>Tail Wheel Adapter for DGA-Staggerwing (2 pcs. req.)</td>
<td>13-01891</td>
<td>$22.55</td>
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<tr>
<td>T-4W</td>
<td>Wheel Set (Set of 2) for TR-34</td>
<td>13-01892</td>
<td>$122.75</td>
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<tr>
<td>T-375</td>
<td>Adapter, .375” for Aerospatiale-Trinidad, Tabago (2 pcs.)</td>
<td>13-01893</td>
<td>$17.00</td>
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<tr>
<td>T-475</td>
<td>Adapter, .475” Outer Diameter (2 pcs. req.)</td>
<td>13-01894</td>
<td>$17.00</td>
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<tr>
<td>T-625</td>
<td>Adapter, .625” for Augusta 109 &amp; Others (2 pcs. req.)</td>
<td>13-01895</td>
<td>$17.00</td>
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<tr>
<td>T-750</td>
<td>Adapter, .750” for Commander 114, 115, 116 &amp; 116D (2 pcs. req.)</td>
<td>13-01896</td>
<td>$17.00</td>
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<tr>
<td>T-Maule</td>
<td>Adapter for Maule Tail Spring (1 pc. req.)</td>
<td>13-01897</td>
<td>$83.95</td>
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<tr>
<td>T-34-04</td>
<td>Shock Absorbing Ring Hitch (1 pc. req.)</td>
<td>13-01899</td>
<td>$189.95</td>
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<tr>
<td>TR-PC A 26R</td>
<td>Towbar, Pilatus PC-12, 3 pcs., 30 lbs.</td>
<td>13-01866</td>
<td>$598.00</td>
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<tr>
<td>TR-PCS</td>
<td>Towbar, Pilatus PC-12, 1 pc., 19 lbs.</td>
<td>13-01903</td>
<td>$517.00</td>
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<tr>
<td>TR-52</td>
<td>Towbar, Ayres: 3 pcs., 18 lbs.</td>
<td>13-01755</td>
<td>$335.00</td>
</tr>
</tbody>
</table>

VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE TOWBARS AND ADAPTERS.

BRACKET TOW BARS

MODEL TR-6

Excellent for towing aircraft such as the T-6, P-51, Stearman, Staggerwing Beech, or any aircraft with 3/4” or larger eye bolts. Length: 12’ Spread: 12 ft. Weight: 62 lbs. Ring Hitch: P/N 13-10131...$1,049.00 Ball Hitch: P/N 13-10130...$939.00

BRACKET TH-6 TOWBARS

The TH-6 is a light-weight universal towbar designed primarily for hand towing. The TH-6 eliminates the mad hunt for the proper towbar when moving a hangar full of singles and light twins. This towbar also has a good handle for pulling and a ring, ball or clevis hitch for occasional light towing. NOTE: The Piper manual states that the tow pins are for hand towing.

For powered towing we suggest adapter set P/N 13-15488.

Ring Hitch: P/N 13-18547...$436.00
Ball Hitch: P/N 13-18548...$439.00
Clevos Hitch: P/N 13-18722...$439.00
Piper Adapter - Qty 2 Required: P/N 13-15488...$17.00

MODEL TR-34

The TR-34 has the light weight of the TR-3, and the strength of the TR-4. It has the same universal features that fit most aircraft from C-150 through aircraft up to 14,500 lbs. Wt: 35lbs. Available in 3 hitch styles.

Ring Hitch (TR-34R): P/N 13-10085...$698.00
Ball Hitch (TR-34B): P/N 13-10086...$698.00
Clevos Hitch (TR-34C): P/N 13-10087...$662.00
TWA-10 Scott Tail Wheel Adapter (2 pcs. req.) P/N 13-10089...$22.55

MODEL TH-53

Features a tow bar length of 80” to 94” (extended). WT: 22 lbs.
Max. aircraft Wt: 7,000 lbs.

TH-53R Towbar w/Ring hitch: P/N 13-01907...$586.00
TH-53B Towbar w/Ball hitch: P/N 13-03339...$625.00
TH-53C Towbar w/Clevios hitch: P/N 13-03340...$625.00

MODEL TR-71, 72, & 73


TR-71B Towbar w/Ball hitch: P/N 13-01908...$586.00
TR-72B Towbar w/Ball hitch: P/N 13-01909...$586.00
TR-72B Towbar w/Ball hitch: P/N 13-01910...$586.00
TR-71R Towbar w/Ring hitch: P/N 13-01910...$679.00
TR-72R Towbar w/Ring hitch: P/N 13-01911...$681.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE
TOW BARS – TUGS

THE TAIL-DRAGGER DRAGGER

This manual tow bar has heavy-duty solid rubber 8-inch wide tread wheels and will move most tail-draggers up to 2,000 lbs. and tail wheel tires up to 10 inches in diameter. Options Available: 3rd Wheel for heavier ships, and RV tail wheel lift pin.

Tail-Dragger Dragger™

Features:
• Patented Design
• No Winches
• No Hydraulics
• No Metal To Metal Contact
• No Adapters Required
• Superior Traction

5 Second Loading & Unloading
Will fit Almost Any Aircraft
Tail Wheel Stays In Trailing Position
Lifting Pins Grip & Lift Tail Wheel
Maneuver In Any Direction
Operator Has Good View Of Wingtips

P/N 13-01510 $224.00
P/N 13-01824 $1,595.00

NOSE WHEEL DRAGGER DRAGGER

The Nose-Dragger Dragger features a swing gate front roller (for easy loading), 10 ball bearing rollers (which push and guide the nose wheel), and does not require the use of adapters, winches, or hydraulics. Effortlessly removes nose wheels up to 600 x 6 (with or without wheel fairings), and no metal-to-metal or metal-to-fiber contact. Available in gas or electric powered models. The 12v electric powered Nose-Dragger Dragger will accept aircraft up to 3,000 lbs. The Nose-Dragger Dragger Gas powered model accepts aircraft up to 6,000 lbs.

Gas Powered, 6.5HP (up to 12,000 lbs.)...P/N 13-05103.....$1,595.00

ACCESSORIES

See www.aircraftspruce.com for complete application list

ELECTRIC DRAGGER® NOSE-DRAGGER

This powerful 24-volt electric aircraft tug will fit and move any nose wheel airplane up to 5,000 lbs. without wheel fairings as well as those with wheel fairings that have 3” or greater of clearance from the fairing to the ground. It utilizes a smooth thumb throttle speed control for precise forward and reverse movements. The built in differential allows for easier turning and even better control! Comes with batteries and smart charger! Ships fully assembled.................P/N 13-18726........$2,195.00

ELECTRIC DRAGGER® TAIL-DRAGGER

This powerful 24-volt electric tug has heavy-duty 11 1/2-inch air wheels and will move tail-draggers up to 5,000 lbs., tail wheel tires up to 16 inches in diameter. It utilizes a smooth thumb throttle speed control for precise forward and reverse movements. Uses 2 batteries hooked up in series that are supplied with a unit and built-in on-board smart charger. The built-in differential allows for easier turning and even better control! Ships on a skid. Comes with batteries and smart charger!.................P/N 13-18727........$2,195.00

TAILDRAGGER PICKER 1

The PICKER-1 is for tail-dragger/conventional gear aircraft and has 100% fully adjustable Picker-Ports on ((1)) side only. This towbar fits all Van’s RV tail draggers and J3-Cubs thru 450 Stearmans. The PICKER you see here is a rugged built and powder coated tail dragger tow-bar made with heavy duty materials and hardware. A benefit of the design truly enables the pilot or ground crew to literally make an infinite number of adjustments to ensure a perfect fit every single time for a multitude of aircraft with tail wheels.................P/N 13-14774........$349.00

BABY BUSH PICKER 1A

The Baby Bush PICKER-1A is for tail-dragger/conventional gear aircraft and has 100% fully adjustable Picker-Ports on ((1)) side only. This picker is intended for tail-wheels up to 6,000 lbs., tail-wheel tires up to 16 inches in diameter. Those dimensions just mentioned exceed the size of a 500 x 5.0 nose wheel. This towbar must be used for aircraft with over 10 inches of ground clearance FWD of the tail wheel. The PICKER you see here is a rugged built and powder coated tail dragger tow-bar made with heavy duty materials and hardware.................P/N 13-16047........$403.00

LSA SPORT PICKER-3 TOW BAR

This “Sport Picker-3” is great for years of use with almost all Sport & LSA “tail dragger” aircraft and alike that are 1,500 pounds fully loaded. The wheel is small for tight clearances, portability and has a medium capacity just for these aircraft. Easily comes apart by hand for stow-a-way in small aircraft. It’s a “take it with you” type of bar. Below are some examples of a large number of aircraft to help you know this can be a good fit for you.................P/N 13-18893........$194.75

X - TENSION - 12 INCH - Consider this ADD-ON product when the reach to your tail wheel is just too far away. Works good and needed for Stearman, WACO, Swift etc. Also works with the “Sport Picker-3” for smaller aircraft with tailwheels too far away from the back side of the rudder.................P/N 13-21072........$48.85

HEAVY DUTY BABY PUSH PINS - As popularity grows for the BUSH tail wheels, so does the need for the BUSH pins when used with a Baby Push Picker. These longer pins reach 8”. Alaska Bush tail wheels are wider and these Extra Long HD AK Bush pins will fit a Bush Plane and even with the use of the collars have a fully contained 7-inch width.................P/N 13-21073........$31.65
TOW BARS – TUGS

ROBOTOwow PORTABLE TOW BAR

The all weather Robotow 24SL is lightweight (33 lbs.) and portable, making it ideal for carrying onboard your aircraft. When the Robotow’s heavy duty all weather knurled drive drum is held against the nose wheel, the aircraft is easily moved. A trigger on the handle controls the speed while a switch reverses direction on command. Powerful, portable, and dependable, Robotow is an ideal power towbar for the aircraft listed.

The Robotow 24SL includes: a comfort grip handle with variable speed switch settings of forward, reverse and locked, a black oxide coated knurled drive drum for non-slip operation with maximum torque transfer, a 5 amp 24 volt durable sealed lead acid detachable battery pack with simple wire harness connections (no memory effect problems), 3 amp charger which can be connected to battery while it is mounted to Robotow frame, and a 24 volt permanent magnet motor for maximum battery life with high torque output.

This unit fits all existing Robotow adapters which are sold separately.

<table>
<thead>
<tr>
<th>Description</th>
<th>Parts #</th>
<th>Price</th>
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<tbody>
<tr>
<td>Robotow 6420 24V Towbar Cordless Kit with International Charger</td>
<td>13-03986</td>
<td>$1,385.00</td>
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<tr>
<td>Robotow 6426 24V Towbar Cordless Kit with U.S. Charger</td>
<td>13-04222</td>
<td>$1,312.00</td>
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<tr>
<td>Robotow 6351 corded 120V, with 80ft. extension cord</td>
<td>13-03897</td>
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ACCESSORIES

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<tr>
<th>Description</th>
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<td>Rowbotow 5 Amp/18V Battery</td>
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<td>Robotow 6245 24SL 5 amp Battery</td>
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<td>Robotow 6247 24SL 3 amp Charger</td>
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<tr>
<td>Robotow Dolly Wheel</td>
<td>13-22378</td>
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<td>Robotow Extension Cord - 100 ft.</td>
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<td>Robotow Ground Fault Interrupter</td>
<td>13-22380</td>
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AIRPLANE ADAPTERS (SOLD SEPARATELY)

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<td>Robotow Adapter Aero Commander</td>
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<tr>
<td>Robotow Adapter Beech 1 / Baron / Bonanza / Debonair Duke</td>
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<td>$115.75</td>
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CESSNA TOWBAR EXTENSION

The “QUICK- FOLD COMPACT TOWBAR” also known as the “QFC—TowbarTM”. No more back breaking, bend over towing. Simply attach the QFC-TowbarTM extension to your already existent Cessna tow bar and stand up straight. An added extension of 33”. Folds flat and is stowed securely along side the factory tow bar. P/N 13-06722 ........$99.75

POCKET TOW TAILWHEEL LEASH

Pocket tow makes tail wheel aircraft maneuvering easy. Made with one-inch heavy-duty nylon webbing, the lightweight tow bar alternative is small enough to fit in your pocket and works on tail wheel aircraft with a 360-degree full-swivel tail wheel assemblies. The small end loops around the tail wheel spring and cinches up tightly to pull and steer the aircraft backwards without pushing or pulling on any flight surfaces. Tailwheel leash - Black...P/N 13-04681 ...$19.95 Tailwheel leash - Red......P/N 13-04682 ...$19.95

GENERAL AVIATION TOWBAR

This aircraft tow bar attaches to tow vehicle, or you can move by hand with the convenient handles. Improved with powder coating. This tow bar has been used on the following aircraft: Cessna 150, 172, 182, 205, 210, Cirrus SR-22, Mooney M20, Vans RV-9A. Check your aircraft owner’s manual, some aircraft manufacturers warn against towing with a bar attached to a vehicle. Make sure you do not exceed the tow limits of your aircraft. ..........P/N 13-19797 .......$295.00

PIPER TOWBAR ADAPTER

Piper Adapter. This adapter fits any towbar with a 3/4” or larger hole. With this adapter you can move Piper 28 series aircraft with the attach holes approximately 4 inches apart. P/N 13-19790 ..........$49.50

BEECH TOWBAR ADAPTER

Beech Adapter. With this adapter you can move Beech Aircraft with the little tow pin. This adapter fits any towbar with a 3/4” or larger hole. Note: The grip length (distance from nut to bolt head) is 1 1/2”. With this adapter you can move Beech series aircraft with the small pin. P/N 13-19793 ..........$35.80

AIRPLANE ADAPTERS (SOLD SEPARATELY) - CONT’D

<table>
<thead>
<tr>
<th>Description</th>
<th>Parts #</th>
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<tr>
<td>Robotow Adapter Beech 2 / Queen Air / Twin Bonanza / Trigear 18</td>
<td>13-03906</td>
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<td>Robotow Adapter Cessna 1 / 150, 172, 182, 310, 340</td>
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<td>Robotow Adapter Cessna 2/ 310R, 401, 414, 421</td>
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<td>Robotow Adapter Cessna 3 / 182RG (Pre-1962), 206, 210 (Pre-1962)</td>
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<td>Robotow Adapter Cessna 5 / 182RG and 210 (1966-1986)</td>
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<td>Robotow Adapter Piper 1 / Apache, Comanche, Aztec, Navajo, Twin Comanche, Bellanca</td>
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<td>Robotow Adapter Piper 2 / Colt, Cherokee, Tri-pacer</td>
<td>13-03913</td>
<td>$191.75</td>
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<tr>
<td>Robotow Adapter Cessna Caravan</td>
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<tr>
<td>Robotow Adapter Trinidad</td>
<td>13-03918</td>
<td>$192.75</td>
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DELUXE TAILWHEEL TOWBAR

The Deluxe Tail wheel Towbar uses a positive locking control cable to attach to the wheel from a straight-on position. No extra maneuvering or lifting is required, and it can be adjusted for various tail wheel sizes, Towbar Weight: 26 lbs. Note: Maximum weight to lift is 1,200 to 1,500 lbs ..................P/N 13-04918 ........$279.95

STEARMAN TOWBAR

This towbar easily captures your tailwheel. Just push down on the bar and latch the pentail hook or drawbar ball. It makes moving the Stearman from the rear quick and easy. Made with heavy duty wheels and pump up tires. Powder coated black. P/N 15-11618 ..........$398.00

BOGERT ATC GROUND OPS KIT

ATC Ground OPS Kit. This Kit includes Bogert Tow Bars Bogi-Bars For Nosewheel, Rubber Wheel Chocks, Molded Wheel Chocks and Nylon Tie-Down Rope. In the box: • 1-Bogert Tow Bars Bogi-Bars For Nosewheel • 1-Rubber Wheel Chocks • 1-Molded Wheel Chocks • Nylon Tie-Down Rope.........P/N 01-01149 ...$1,595.00

HEAVY DUTY TOW BUDDY CORDLESS POWERBAR

Features: • No Flammable gasoline needed in hangar • Easy To Use • Infinite Speed Control • Versatile Applications • Push button forward and reverse controls • Nose gear quick attach for easy nose gear hook up • The adjustable fork height fits virtually any light aircraft • Trickle charger for battery • Large 16 x 6.50 - 8 turf tire • For aircraft weight of 3500 to 4500lbs. Battery not included. ..........P/N 13-04513 ......$1,534.00

NOSE PICKER HEAVY DUTY AIRCRAFT TUG

Recommended for up to a 4,000 pound aircraft. Entire chassis can be raised or lowered, and three different sized front wheels can be used to create exact measurements for aircraft. The 24-volt, ships assembled inside a wooden crate. Batteries not included. ..........P/N 13-21166 ...$1,955.00

Prices Subject to Change Without Notice

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REDLINE TOW BARS

REDLINE SIDEWINDER POWER DRIVER
Powerful and portable, the Sidewinder will forever change the way you move your aircraft. Powered by Milwaukee’s top of the line 28V power unit with a long-lasting, lithium ion battery pack, Sidewinder weighs less than 22 pounds, collapses to 27” and stows easily in your baggage compartment. Made in the USA using 4130 Chromoly material. Comes with battery and charger.

Part No. | Models | Part No. | Price
--- | --- | --- | ---
AC-01 | Aero Commander Twin | 13-22185 | $1,840.00

Beechcraft
BE-001 | Bonanza/ Baron | 13-06838 | $1,675.00
BE-02 | Duchess | 13-22184 | $1,980.00
BE-03 | Sierra | 13-22186 | $1,980.00
BE-04 | Musketeer/Sundowner | 13-22187 | $1,980.00
BE-05 | Duke | 13-22188 | $1,980.00

Cessna
CE-01 | 150,172,177,182, 206 FG W/5:00 X 5 W/0 PANT | 13-22189 | $2,283.75
CE-01 HD | 182-206 FG with Airglass Nose Gear/Over Size Tire | 13-22190 | $1,980.00
CE-02 | 177 RG | 13-06855 | $1,675.00
CE-03 | 172-182-210 RG | 13-22191 | $1,980.00
CE-04 | C-170-180-185 SCOTT T.W. | 13-22192 | $1,980.00
CE-05 | C-303 | 13-22193 | $1,980.00
CE-06 | C-337 | 13-22194 | $1,980.00
CE-07 | 310 (THROUGH Q) -340 | 13-22195 | $1,815.00
CE-08 | 310R, 414, 421, 441 | 13-22196 | $1,980.00
CE-06 | CITATION MUSTANG | 13-22204 | $2,250.00
CE-07 | 300-350-400 | 13-22205 | $2,250.00

Cirrus
CI-01 | SR-20 - SR-22 - LEVER BEAM | 13-22197 | $1,980.00
CI6 | CJ 6 | 13-22198 | $1,980.00

Diamond
DA-40 | DA-40 LEVER BEAM | 13-22199 | $2,283.75
DA-42 | DA-42 | 13-22200 | $1,980.00
DA-62 | DA-62 | 13-22201 | $1,980.00

EC-01 | Eclipse - All Models | 13-06861 | $1,675.00

GLS-3 | Glasair 3 Lever Beam | 13-22503 | $1,825.00

Part No. | Models | Part No. | Price
--- | --- | --- | ---
LANC AIR
LA-02 | Lancair 4 | 13-22202 | $2,283.75
LA-03 | Lancair 4 Jet Prop | 13-22203 | $2,283.75
LA-03 | Lancair Evolution | 13-22203 | $2,283.75
LA-01 | Legacy | 13-22504 | $2,165.00

ME-01 | Meyers 200D | 13-22206 | $1,980.00

Mooney
MO-01 | Mooney Lever Beam | 13-06860 | $1,675.00
MO-02 | Mooney Compressor | 13-22207 | $1,980.00

NA-01 | Navion B.R. - All Model Need Tire Size | 13-22208 | $2,283.75

PIPER
PI-01 | Arrow and Lance | 13-22209 | $1,840.00
PI-01S | Saratoga Rg. | 13-22209 | $1,840.00
PI-02 | Matrix, Mirage, Malibu | 13-22210 | $1,980.00
PI-03 | Meridian and Dlx Jet Prop | 13-22211 | $1,980.00
PA-23 | Aztec | 13-22212 | $1,980.00
PA-24 | Comanche All S.E. Models | 13-22213 | $1,980.00
PA-30 | PA030 Twin Comanche | 13-22214 | $1,980.00
PA-31 | PA-31 Navajo (All) | 13-22215 | $1,980.00
PA-34 | PA-34 Seneca | 13-22216 | $1,980.00
PA-34 BR | PA-34 Blade Runner | 13-22217 | $2,283.75
PA-60-1 | PA-60 Dbl Cross-Need S.N. | 13-22218 | $1,980.00
PA-60-2 | PA-60 B.R. NEED S.N. | 13-22219 | $2,283.75

Rockwell
RC-S.E. | RC-112 & 114 | 13-22220 | $2,283.75
RC- BR | RC-112 & RC-114 Blade Runner | 13-22505 | $2,165.00

Socata
TB-20 | TB-20 | 13-22221 | $2,283.75
TB-21 | TB-21 | 13-22222 | $2,283.75
TB-30 | TB-30 EXT. | 13-22223 | $1,980.00
Y-52 | YAK 52 | 13-22224 | $1,980.00

REDLINE ACCESSORIES

Sidewinder Carry Bag.................................13-06839..............$76.75
Sidewinder Replacement Battery .................13-06840.............$226.95

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Prices Subject to Change Without Notice

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**REDLINE BE-3/BE-3XL TOWBARS**

**BE-3**: 2-piece design for hand or powered use. Extends to 43.5” and weights 3 pounds 6 ounces. Made in the USA using 4130 Chromoly material.

**BE-3XL**: 2-piece design for hand or powered use. For attachment to a golf cart, tractor or other powered vehicle, please use the S-3 Vehicle Adaptor. Made in the USA using 4130 Chromoly material.

<table>
<thead>
<tr>
<th>Application</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE-3 Beechcraft - Fits Bonanza, Baron, Travel Air, T-34</td>
<td>13-06841</td>
<td>$295.00</td>
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<tr>
<td>BE-3XL Cessna - Fits 172RG, 177RG, 182RG, 210, P210</td>
<td>13-06843</td>
<td>$294.00</td>
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<tr>
<td>BE-3XL Mooney - Fits All</td>
<td>13-06846</td>
<td>$294.00</td>
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<tr>
<td>BE-3 Piper - Fits Arrow, Lance, Saratoga (RG)</td>
<td>13-06844</td>
<td>$294.00</td>
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<tr>
<td>BE-3XL Piper - Fits Arrow, Lance, Saratoga (RG), Malibu, Matrix</td>
<td>13-06845</td>
<td>$294.00</td>
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</table>

**REDLINE BE-4 TOWBARS**

2-piece design for hand or powered use for heavier airplanes. Extends to 61.5” and weighs 5 pounds. For attachment to a golf cart, tractor or other powered vehicle, please use the S-3 Vehicle Adaptor. Made in the USA using 4130 Chromoly material.

<table>
<thead>
<tr>
<th>Application</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>BE-4 Beechcraft - Fits Bonanza, Baron, Travel Air, T-34, Duchess</td>
<td>13-06849</td>
<td>$389.00</td>
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<tr>
<td>BE-4 Piper - Arrow, Lance, Saratoga (RG), Malibu, Matrix, Meridian, Seminole.</td>
<td>13-06851</td>
<td>$389.00</td>
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<tr>
<td>BE-4 Eclipse - Fits All</td>
<td>13-06852</td>
<td>$389.95</td>
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<tr>
<td>ST-1 Vehicle Adapter</td>
<td>13-04066</td>
<td>$59.50</td>
</tr>
</tbody>
</table>

**REDLINE ST-1 TOWBARS**

If you own models 33, 35 or 55, the ST-1 is the least expensive, most versatile option for hand or vehicle towing. With an overall length of 38.5” and 3 pound 8 ounce weight, it fits neatly on the floor of your baggage compartment. This is our recommended tow bar for the STIFFY. For attachment to a golf cart, tractor or other powered vehicle, please use the ST-1 Vehicle Adaptor. Length is 38.5” and weighs 3 pounds 8 ounces. Made in the USA using 4130 Chromoly material.

**FITS THESE BEECHCRAFT MODELS**: Bonanza, Baron, Travel Air, T-34...P/N 13-06848...........$209.00

<table>
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<tr>
<th>Application</th>
<th>Part No.</th>
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<tr>
<td>ST-1 Vehicle Adapter</td>
<td>13-04066</td>
<td>$59.50</td>
</tr>
</tbody>
</table>

**REDLINE PH-1 FOR ECLIPSE**

Main gear axle adapter allow the use of floor jack or bottle jack for tire maintenance. Made in the USA using 4130 Chromoly material. **FITS ALL ECLIPSE AIRCRAFT**. P/N 13-06853...........$349.00

**REDLINE UL/UL-XT TOWBARS**

**UL**: Very light weight, 2-piece design for hand towing only. Extends to 43.5” and weights 3 pounds 4 ounces. Made in the USA using 4130 Chromoly material.

**U.L.- XL: CESSNA** Very light weight, 2-piece design for hand towing only. Extends to 48.5”, collapses to 31.5” and weighs 3 pounds 6 ounces. Made in the USA using 4130 Chromoly material.

**U.L.- XL: MOONEY** 2-piece design for hand or powered use for heavier airplanes. Extends to 61.5” and collapses to 33” and weighs 5 pounds. Made in the USA using 4130 Chromoly material.

<table>
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<tr>
<th>Application</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>UL - Beechcraft - Fits Bonanza, Bonanza, Baron, Travel Air, T-34</td>
<td>13-01914</td>
<td>$209.00</td>
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<tr>
<td>UL-XT - Cessna - Fits 172RG, 177RG, 182RG, 210, P210</td>
<td>13-01917</td>
<td>$210.00</td>
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<tr>
<td>UL-XT Mooney - Fits All</td>
<td>13-06847</td>
<td>$209.00</td>
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<tr>
<td>UL - Piper - Fits Arrow, Lance, Saratoga (RG)</td>
<td>13-01915</td>
<td>$229.95</td>
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</tbody>
</table>

**REDLINE STIFFY**

A 1-pound, spring-loaded, reversible-ratcheting mechanism that greatly increases the “leverage” available to help move your plane. Must be used with either the ST-1 or BE-3 Towbar, purchased separately. Made in the USA using 4130 Chromoly material.

**Application**: Beechcraft - Bonanza, Baron, Travel Air, T-34 

**REDLINE UL/UL-XT TOWBARS**

**UL**: Very light weight, 2-piece design for hand towing only. Extends to 43.5” and weights 3 pounds 4 ounces. Made in the USA using 4130 Chromoly material.

**U.L.- XL: CESSNA** Very light weight, 2-piece design for hand towing only. Extends to 48.5”, collapses to 31.5” and weighs 3 pounds 6 ounces. Made in the USA using 4130 Chromoly material.

**U.L.- XL: MOONEY** 2-piece design for hand or powered use for heavier airplanes. Extends to 61.5” and collapses to 33” and weighs 5 pounds. Made in the USA using 4130 Chromoly material.

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<tr>
<td>UL - Piper - Fits Arrow, Lance, Saratoga (RG)</td>
<td>13-01915</td>
<td>$229.95</td>
</tr>
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</table>

**REDLINE WEDGE-LOC LINK**

Provides a solid “link” between your airplane and other brands of low bars or power tugs that were designed to connect to either your axle or tow pins. With the WLL, nothing touches any exterior surface of your plane...the result is no scratching or other damage! Made in the USA using 4130 Chromoly material.

**FITS THESE BEECHCRAFT MODELS**: Bonanza, Baron, Travel Air, T-34 P/N 13-01913...........$249.95

**REDLINE SLIDER FOR ECLIPSE**

The Slider adapter inserts into the front axle and tightens securely. It provides a short “stub” on each side for any universal type tow bar attachment. With the Slider in place, nothing touches any exterior surface of the nose gear, avoiding scratching and other damage. Made in the USA using 4130 Chromoly material.

**FITS ALL ECLIPSE AIRCRAFT**. P/N 13-06854...........$149.00
AIRCRAFT TUGS

TRACE TOWBOTS REMOTE CONTROL AIRCRAFT TUG

The iTowBot’s loading sequence is as easy as driving the unit directly under the nosewheel of your aircraft. It is engineered so that when the aircraft loads, the weight of the loaded aircraft does not inhibit its zero-turn capability. This allows the operator to articulate the aircraft in a manner that places it ahead of all other towing equipment. Releasing the aircraft is just as easy. A foot-operated release allows the operator to unlock the swivel carriage and merely back out from beneath the nosewheel. Can tow in any direction, allowing the user to position aircraft in close quarters with ease. It has the ability to rotate the aircraft inside of its own wingspan. The powerful 24VDC motors are regulated for smooth starts and stops while delivering the power you need to put your aircraft asset out on the ramp or back in the hangar. Specifically designed to provide adequate distance for the operator to tow an aircraft while stepping back to visually clear the areas around the aircraft.

Specifications: • Measures 38” Wide x 46” Long x 12” High • Powerful Reversible 24 Volt DC Motors • Rugged Steel Construction • Powder-Coated Frame • Virtually Zero Maintenance • Easy Ergonomic Remote Control handset • Max Towing Speed 1.7 Feet Per Second • Overvoltage Thermally Protected • Tows Aircraft up to 15,000+ Pounds Gross Weight • Trouble Free Cast Iron Rims with Non-Marking Moldon • Solid State Heavy Duty Fully Articulating Motor Control Wheels • Hybrid Zero Turn Capability about Stationary Nosewheel • Equipped with Solid State Battery Charger/Maintainer • Also available with built-in 24V Auxiliary Power Plug (APU) & Power Cord

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>Standard Model (No APU) Up to 15,000 lbs.</td>
<td>13-05252</td>
<td>$9,386.00</td>
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<tr>
<td>Standard Model (With APU) Up to 15,000 lbs</td>
<td>13-05253</td>
<td>$10,873.00</td>
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<tr>
<td>Heavy Duty - Incorporates Gear Reduction and is 36V (No APU) up to 30,000 Lbs.</td>
<td>13-05734</td>
<td>$11,405.00</td>
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<tr>
<td>Heavy Duty - Incorporates Gear Reduction and is 36V (With APU) up to 30,000 Lbs.</td>
<td>13-05735</td>
<td>$12,900.00</td>
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</tbody>
</table>

PRICELESS TRANSAXLE BATTERY OPERATED TUG

Easily move small aircraft quickly and safely in tight areas. The model 701 is collapsible for compact stowing. Optional ball hitch attachment for movement of small trailers and campers. Model 701 - Move aircraft weighing up to 4,500 lbs. Max Tow. Tug performance data based on level, smooth, paved surfaces. Features: • 400W effective power • 24 V DC Electric motor • Operator can easily control steering • Rocker switch for forward/reverse • Adjustable speed • Virtually silent when moving • Environmentally friendly - no exhaust • Average battery life: 3 hr • Dual Battery Pack - 24v system • Easily remove 24v battery • Collapsible design • Easy adjust handle for user comfort • Universal adaptor attachment for quick tool-free connection to a wide range of aircraft........P/N 11-10807......$4,250.00

PRICELESS TRANSAXLE GAS OPERATED TUG

Designed and built to save time and money for FBOs, Maintenance Shops, Corporate aviation or anyone needing to move aircraft. The 707 Tug makes it easy for one person to maneuver aircraft quickly and safely in tightly stacked hangars or staging on the ramp. Model 707 - Move aircraft weighing up to 9,500 lbs. Max Tow. Tug performance data based on level, smooth, paved surfaces. Features: • 340cc Honda OHV Engine - EPA approved • Gasoline (87-100LL) • Electric start • Heavy-Duty transmission • Disc brake • High-floating pneumatic drive tires • Lazy Susan • Quick-Lock strap to secure nosewheel • Headlight..............P/N 11-10808......$6,795.00

See www.aircraftspruce.com for Aircraft Application Charts

TUGMAXXE®SM 2.0 TWIN ENGINE AIRCRAFT TUG

Small, versatile, powerful, and reliable. Applicable for large single engine and twin-engine aircraft up to 8,800 lbs (2t) and safely in tightly stacked hangars. The 707 Tug makes it easy for one person to maneuver aircraft quickly and safely in tightly stacked hangars or staging on the ramp. Model 707 - Move aircraft weighing up to 9,500 lbs. Max Tow. Tug performance data based on level, smooth, paved surfaces. Features: • 340cc Honda OHV Engine - EPA approved • Gasoline (87-100LL) • Electric start • Heavy-Duty transmission • Disc brake • High-floating pneumatic drive tires • Lazy Susan • Quick-Lock strap to secure nosewheel • Headlight..............P/N 11-10808......$6,795.00

TUGMAXXE®SM2.2 HELICOPTER TUG

Small, powerful, and reliable. Especially designed for Robinson Helicopters (R22, R44, and R66). Powerful high-torque rotary drive 24V 500W DC effective power electric motor resourcefully applied. Allows noiseless silent maneuvering and movement of single-and small twin-engine aircraft up to max 8,800 lbs (4t) quickly and safely in tight areas. Environmentally friendly - no exhaust.........................P/N 13-18770..................$2,452.00

TUGMAXXE®ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<td>Tugmaxxe® 2 Light Aircraft Adapter Diamond DA42</td>
<td>13-20669</td>
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<tr>
<td>Tugmaxxe® 2 Light Aircraft Adapter Diamond DA40</td>
<td>13-20670</td>
<td>$149.00</td>
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<tr>
<td>Tugmaxxe® 2 Light Aircraft Adapter Beech Bonanza B33 to B36</td>
<td>13-20671</td>
<td>$149.00</td>
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<tr>
<td>Tugmaxxe® 2 Light Aircraft Adapter Socata TB20 and TB21</td>
<td>13-20672</td>
<td>$149.00</td>
</tr>
<tr>
<td>Tugmaxxe® Power Outlet</td>
<td>13-20674</td>
<td>$119.00</td>
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<tr>
<td>Tugmaxxe® Three-Axis Tiller Control Handle</td>
<td>13-20673</td>
<td>$559.00</td>
</tr>
<tr>
<td>Tugmaxxe® Heavy Duty All Terrain Tires</td>
<td>13-20675</td>
<td>$242.00</td>
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<tr>
<td>Tugmaxxe® Snow Chains</td>
<td>13-20676</td>
<td>$290.00</td>
</tr>
</tbody>
</table>

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Prices Subject to Change Without Notice
AIRTUG® 6-S GAS POWERED
The AIRTUG Model 6-S model is extremely easy to use because of its’ unique “Throttle Grip Control” system utilizing a hydrostatic transmission as the heart of the Airtug, a heavy duty variable speed gas engine, with a built in electric starter. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its’ pinpoint handling makes this unit a great choice.

Specifications: • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle 16” x 6” - 6 ply on 8” Drive Wheels • Drive wheels capable of handling nosewheel weights up to 2000 lbs. • Welded load platform mounted between the drive wheels for added traction

P/N 13-07284 $3,595.00

AIRTUG® 6-H GAS POWERED
The 6-H aircraft tug model is the tug of choice for those who need to lower the tail to enter a hangar, and might also need to handle nose-wheel fairing aircraft. The nose-wheel is loaded the same as the Model 6-H, and it can be raised by a hydraulic jack up as much as needed to a maximum of roughly 9”, thus lowering the tail by approximately double this amount. Additionally, it is easy to use because of its’ unique “Throttle Grip Control” system utilizing a hydrostatic transmission and a 16 HP variable speed gas engine. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its’ pinpoint handling makes this unit a great choice.

Specifications: • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle 16” x 6” - 6 ply on 8” Drive Wheels • Drive wheels capable of handling nosewheel weights up to 2000 lbs. • Low Profile unit for avoiding low aircraft hulls and flight controls with low axle and optional 13” Drive Wheels

P/N 13-07285 $3,795.00

AIRTUG® 10-S GAS POWERED
Extremely easy to use because of its’ unique “Throttle Grip Control” system utilizing a hydrostatic transmission as the heart of the Airtug, a heavy duty variable speed gas engine, with a built in electric starter. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its’ pinpoint handling makes this unit a great choice. A light is built in for ease of seeing under the fuselage at night.

P/N 13-07288 $4,595.00

AIRTUG® NFE-6 ELECTRIC AIRCRAFT TUG
This quiet electric model makes moving the aircraft a simple task for a single person by lifting the nose-wheel off the ground! Much easier to hook up and control the aircraft than a single wheel tug that is not able to lift the nose wheel off the ground. Simply attach the small towbar / nose-wheel onto the raised platform for total control by the tug. The NFE-6 model Airtug® is extremely easy to use because of its’ unique “Thumb Throttle” system utilizing an electric transaxle with differential and on board Smart Battery Charger. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its’ pinpoint handling makes this unit a great choice. A light is built in for ease of seeing under the fuselage at night.

P/N 13-21612 $3,882.00

AIRTUG® NFE-4 ELECTRIC FOR CIRRUS
Moves the CIRRUS Aircraft and other casing nose-wheel aircraft easily and makes moving the aircraft a simple task for a single person!
The BEST TUG for CIRRUS aircraft or any other aircraft that requires a casing nose-wheel fairing aircraft. Simply attach the small towbar by hand to the aircraft and then winch the towbar / nose-wheel onto the raised platform for total control by the tug.

P/N 13-14974 $3,268.00

AIRTUG® 10-H GAS POWERED
The 10-H aircraft tug model is the tug of choice for those who need to lower the tail to enter a hangar, and might also need to handle nose-wheel fairing aircraft. The nose-wheel can be raised by a hydraulic jack up as much as needed to a maximum of roughly 9”, thus lowering the tail by approximately double this amount. Additionally, it is easy to use because of its’ unique “Throttle Grip Control” system utilizing a hydrostatic transmission, electric starter and a heavy duty variable speed gasoline engine. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. A light is built in to ease seeing under the fuselage at night.

Specifications: • 2 Ton Hydraulic Jack for Lift Shoe • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle 16” x 6” - 6 ply on 8” Drive Wheels • Drive wheels capable of handling nosewheel weights up to 2000 lbs. • Low Profile unit for avoiding low aircraft hulls and flight controls with low axle and optional 13” Drive Wheels

P/N 13-07289 $4,795.00

AIRTUG® EL3-S ELECTRIC POWERED
Same great power and moving capacity as the larger gas powered unit, but in a QUIET electric mode! Extremely easy to use because of its’ unique “Throttle Grip Control” system. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its’ pinpoint handling combining twist grip control with a large, handle-mounted Caster makes this walk-behind Airtug a great choice. A light is also built in for ease of seeing under the fuselage at night.

Specifications: • Loading System: Winch Strap/Strut Strap/Parts Warranty: 1 Year • Engine: Heavy duty 3HP Permanent Magnet Motor • Tow Weight: Up to 16,000 lbs. • Turning Radius: 360 Degree

P/N 13-07286 $5,395.00

AIRTUG® EL3-H ELECTRIC POWERED
Same great power and moving capacity as the larger gas powered unit, but in an electric mode! The choice for those who need to lower the tail to enter a hangar, and might also need to handle nose-wheel fairing aircraft. The nose-wheel can be raised by a hydraulic jack up to a max. of 9”. It is easy to use because of its’ unique “Throttle Grip Control” system. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. A light is also built in for ease of seeing under the fuselage at night.

Specifications: • Loading System: Hydraulic Lift Shoe with Winch Strap/Strut Strap/Parts Warranty: 1 Year • Engine: Heavy duty Electric Motor, powerful Batteries, and built-in Battery Charger. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its’ pinpoint handling combining twist grip control with a large, handle-mounted Caster makes this walk-behind Airtug a great choice. A light is also built in for ease of seeing under the fuselage at night.

P/N 13-07287 $5,395.00

ADDITIONAL ADAPTERS

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$3,268.00

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
FLY TIES TIE DOWNS
FlyTies Tie Downs Rated “Top Choice” by Aviation Consumer
FlyTies® unique design allows quick insertion and quick removal using the easy-out extraction tool provided. Rugged, die-cast steel rods are 3/8” x 14” for deeper penetration into hard soil. Cumulative load capacity is 3,600 lbs. Kit includes 3 ea. aluminum hubs w/ forged steel eyebolt 9 ea. 3/8” dia. x 14” steel stakes + 1 ea. extractor tool + 1 ea. heavy duty canvas tote bag + 1 ea. set of instructions + 3 ea. polypropylene ropes and has a lifetime warranty. P/N 13-22751 $99.95

TIE-DOWN EYE BOLT
For non-structural applications. The 7/16” dia. threaded shank is 7/8” long. Hole is 5/8” dia. Overall length 2-1/2”. Furnished with AN365-720 elastic stop nut and wide-area AN970-7 washer P/N 13-04303 $9.75

AIRCRAFT TIE-DOWNS
These Aircraft Tie-Downs offer strong, durable, and easy to use tie downs for any weather condition. These tie down kits are rated up to 3,000lbs. and tighten up with just one quick pull. A sliding cap protects the buckle from freezing during cold weather and keeps grit out during windy field conditions. Each kit comes with: * Three 9 foot long tie down straps * Choice of tie down strap colors: black, red, or royal blue * A Dupont Cordura carrying bag with choice of colors; black, forest green, red, royal blue or navy. Embroidery is available for an additional $5. Color is Red. P/N 13-06328 $82.75

TAIL TIE DOWN GUARD 162TG
Fits Cessna 162 And Other Light Aircraft. P/N 05-08294 $131.95

AIRCRAFT TIE-DOWN WITH EMBROIDERY
Aircraft Tie-Down offer strong, durable, and easy to use tie down for any weather condition. Rated up to 3,000lbs. and tighten up with one quick pull. A sliding cap protects the buckle from freezing during cold weather and keeps grit out during windy field conditions. Kit Contains: A Dupont Cordura matching carrying bag. Specifications: * Strap Color: Red + Embroidery Color: White

SHOCKSTRAP™
ShockStraps™ are a unique shock absorbing tie down that incorporates three of the most versatile tie down principals into one superior system. It is quick and easy like a motorcycle tie down, has the reliability of a ratchet system, and versatility of a shock cord. ShockStrap™ stretches acting like a shock absorber and contracts with the load keeping it secure.

TIE DOWN STRAPS
MEDIUM STRAP KIT - 1500 lb. universal, 14 foot tie-down straps with 3000 lb. spring clip climbing type carabiners and 3000 lb. ground stakes P/N 13-18529 $214.95

LARGE STRAP KIT - 3000 lb. universal, 14 foot tie-down straps with 3000 lb. spring clip climbing type carabiners and 3000 lb. ground stakes P/N 13-11229 $199.75

HEAVY STRAP KIT - 4000 lb. universal, 10 foot tie-down straps with 5000 lb. spring clip climbing type carabiners and 5000 lb. ground stakes P/N 13-11230 $214.95

16” CORCSCREW TIE-DOWN KIT
A versatile, general-purpose spiral anchor made from cold, rolled steel. Design for lightweight applications. Folding ring reduces profile to minimize obstruction in high traffic areas. Bright orange color powder coat resists corrosion and helps provide added visibility. Use to secure small tents, trees, recreational use and patio furniture.

Features: * High pull force performance; 500 pounds per anchor (results may vary depending on soil types) * Installs in most soils in minutes * Lightweight, individual weight of 1 lb 13 oz. or 5 lbs. per kit * This kit includes: three 16” corcscrew tie-down anchor, one 3/8” nylon tie down rope, and one tie down bag - all complete with a manual including installation instructions P/N 13-09692 $59.75

PIPER/BEECH TIE DOWN RINGS
45° Angled Stainless Steel Tie Down Rings

PIPER/BEECH SKID & STRIKE PLATES

STORMFORCE TIE DOWN ANCHORS
The Storm Force Aircraft Tie Down System is the STRONGEST, LIGHTEST, and BEST aircraft tie down available, and is compatible with all types of small aircraft. The Storm Force Tie Down Kit is perfect for aircraft under 3500lbs gross weight; for twin engine aircraft and aircraft above 3500lbs gross weight checkout our Storm Force XL. Storm Force Aircraft Tie Downs are manufactured using lightweight yet extremely durable materials in order to provide pilots with exactly what they need to secure their aircraft with confidence. Capable of supporting 4200 lbs or more of force per unit, the Storm Force Aircraft Tie Down leaves the competition in the dust. Durable Powder Coating Light-Weight Design. P/N 13-21608 $97.75

AEROSPOILER KIT
AEROSPOILER EXTENSION KIT
Kit contains 10 cup/receiver assemblies and 8 20° angle 1 inch blade assembled in 20' of wing coverage. The AeroSpoiler will reduce the lift producing capability of your aircraft wing by as much as 96% on the area of wing covered by the Spoiler. Extension kits are available for aircraft requiring more than 20' of wing coverage. Aero Spoiler Kit P/N 13-06505 $179.00

Extension Kit P/N 13-06506 $99.00

PIERSON'S AIRCRAFT SPACER
WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
“THE CLAW” TIE-DOWN SYSTEM

Features: Easy installation...Easy removal. No more struggling with screw-in anchors. The “Claw™” is designed exclusively for aircraft. The “Claw™” system has a 3600 lb. combined capacity. The last tie down you will ever have to worry about. Lifetime Warranty. Tremendous holding strength. The harder you pull, the more the “Claw™” grips. Ideal for all aircraft. Works in hard clay, sandy soil or anything in between. Large foot print spreads the load over a larger area for maximum holding power. Lightweight, compact, easy to carry and store. Complete System weighs only 8 lbs (including Hammer). Light-weight aircraft aluminum with hardened corrosion resistant die cast zinc plated steel spikes 25 ft 3/8” dia. solid braid polyester rope. anchoring System doubles as removal tool. The “Claw™” is easy to carry and store that contains: 3 Anchors; 9 spikes; 1 hammer; 25 ft rope. Weight: 8 lbs. P/N 13-04248...$89.95

JEB’S REMOTE TIE-DOWN KIT

Remote Release System - This new safety device will be appreciated by anyone who has hand starts their plane. Release and retrieve without leaving the cockpit - get off to a safe start. P/N 13-04787...$59.95

BAGGAGE TIE-DOWN

A very strong, light weight, and quick way to secure your baggage. The photo shows two units; One with the clamp/ring installed in the base color. One with the clamp/ring removed to show more detail. The unit parts are made of anodized 6061 T-6 aluminum with a stainless ring. 2 rivnuts and 2 countersunk 10-32 cad-plated screws are furnished with each complete unit. Extra bases can be purchased individually, and include rivnuts and screws. Note: Use rivnuts to attach to surfaces with no rear access - simply drill a .25” hole and install rivnut. By installing additional bases you can tailor your baggage tie-down options to suit your current needs. P/N 13-01729...$46.50

E-Z LOCK TIE DOWNS

EZ-Lock Tie Downs allow for simple, one-person tie-down of aircraft, with no knots to tie. Features weather-, oil- and gas-resistant polypropylene rope for long product life. 72” Fully Extended. P/N 13-00159...$25.95

SLIDEDOWN AIRCRAFT TIE DOWN

Made as a “one size fits most aircraft”, the SlideDown is easily adjustable to reach any anchor points. Maximum reach on the wings are approximately 100 inches and the maximum reach on the tail is approximately 54 inches. The SlideDown can be shortened to accommodate just about any length. The SlideDown is proudly Made in the USA and available in a variety of colors. Features: Powder Coated Aircraft Grade Aluminum Slide, 7/16” Kemmantle Braided Rope available in a variety of colors, Vinyl Coated Hooks, and a maximum Reach: Wings 100”, Tail 54”. Sold in sets of 3.

CARAVAN TAIL TIE DOWN HANDLE

Airforms P/N AF2610231-1, Tail tie down handle, rear. Direct replacement for Cessna P/N 2612031-1. Eligible for all S/N aircraft. Cessna models 208 and 208B. FAA PMA Approved. Specifications: • Precision fit – drop in replacement for the original part • Aircraft interface unchanged • Tail stand interface unchanged – works with your existing parts • Comes permanently ready for installation • FAA PMA Approved • Cessna models 208 and 208B. P/N 05-12267...$47.00

SMART ANCHOR TIE DOWN SYSTEM

SmartAnchor is an advanced 3-pin anchoring system developed for securing aircraft. It has the below features: • Patented design enables it for both vertical pull and 45° pull • Weight is 8 lbs; • Lifetime Guarantee. Includes: • 3 ea. steel alloy anchoring anchors; • 20 ea. 1045 hi-carbon steel spikes; the diameter of the spike is 3/8” and length is 12”; • 3 ea. 10-ft in long 3/8” dia diamond braid nylon ropes; • 1 16 oz hammer; • 1 black durable carrying bag. P/N 13-18783...$79.95

NELSON AIRCRAFT TIE-DOWNS

• Three 15” welded (not bent) steel anchors with sharp tips for easy installation • Three 15” nylon ropes• Cordura, Int’l. Orange, 8” x 15” case • WT: 4 lbs. P/N 13-00663...$88.50

THE PILOT BUDDY

A pilot actuated safety and restraint system for hand propping and tail tie down. Conceived to meet and exceed the load for purpose of positive restraint. Has a Black Velour storage Pouch (4” x 5”), and a slightly smaller restraint loop ring. The entire device and storage package weighs less than 1 oz., and fits in the palm of your hand. Both Restraint loop (Left side=4 Yards=12); and the release lanyard (Right side -6 yards = 18) are constructed of MIL Specification, MIL-C-5040, 750 pound test line. The Swing Latch Shackle release is test certified to 800 pounds tensile strength for operating loads. The Swing Latch mating ring on the Restraint loop (Left Side), is a ring contracted to MIL Specification, MS27762, with a tensile strength of more than 750 pounds. Package comes with instructions, a checklist for use, and other increasing safety materials. P/N 13-04259...$37.50

NYLON TIE-DOWN ROPE

American-made 100% duPont filament fiber nylon rope. Over twice the strength of manila. Highly resistant to sun, rot & mildew. Don’t be fooled by foreign imitations.

Tie-down System: 3/8” (4000 lb. test) P/N 13-06400...$0.28/ft. 1/2” (6250 lb. test) P/N 13-06500...$0.66/ft. 15% Discount on 100 ft.

GENUINE VELCRO

5819 Genuine Velcro Two 4 1/2” pressure sensitive hook and loop strips. P/N 13-06404...$2.75

TRACK CARGO ANCHORS

A series of anchors specially designed for “T” type tracks. FAA-PMA approved to fit most G.A. aircraft seat rails. Quality constructed from solid aluminum alloy anodized per MIL-A-8625 and permanently fitted with a stainless threadless sleeve and welded stainless steel ring with heat treated steel alloy stud.

Aircraft L Description Part No. Price

Piper 1.5” T Type Track Cargo Anchor Blue 5501 13-20137 $104.95
Cessna 1.5” T Type Track Cargo Anchor Purple 5502 13-20139 $104.95
Cessna 2.5” HD T Type Track Cargo Anchor Black 5502-2 13-20140 $112.80
Beech 1.5” T Type Track Cargo Anchor Green 5503 13-20141 $99.75

TOUGHMAN TIE-DOWN

Incorporates the patent protected Toughman™ Rope Clamp which has only two moving parts and is manufactured from high performance engineered nylon resin. It is very easy to use, extremely lightweight, high strength and permanently corrosion proof. The Toughman™ Tie-Down product package includes one rope clamp, ten or fifteen feet of rope and one corrosion resistant steel stock. Military Tough: The Toughman™ Rope Clamp has undergone rigorous testing by the US Army Soldier Systems Center. “National Test lab test results approved for use on cargo nets and rope support lines on military tents.

3/8” Camo 10’ P/N 13-05115...$11.75 3/8” Red & Yellow 10’ P/N 13-05114...$11.75

BIG SCREW EZ TIE DOWN

Big Screw EZ Tie Down is an innovative tie down system combining a lightweight 18” cast aluminum ground screw, and a custom aviation designed attachment strap. The 18-inch long cast aluminum ground screw provides stability in all soil types. The screw penetrates deeply into compacted soils resulting in superior holding strength. This exclusive design provides two to three times the holding strength of spike type anchored in Tie Down. Large Wide screw grasps a 10” wide x 4” long area of Ground Contact Area, 40 times more than a spike. The screw can be positioned either directly below or set out from aircraft attachments. Quick easy installation and removal using a 1” ratchet, 1” socket, or a portable impact wrench (not included). P/N 13-21308...$159.95 Big Screw Straps (3 each Ft.) P/N 13-21309...$69.95

www.aircraftspruce.com

Prices Subject to Change Without Notice
ASA WHEEL CHOCKS
These tire stops are for keeping aircraft securely parked. A pair of black molded plastic wheel stops are connected with 22” bright yellow and black braided nylon rope that won’t rot or retain water. The bottom cleats keep aircraft securely parked. Lightweight: 7-3/4” x 2-1/2” x 4-1/2”; Concave design fits any aircraft tire. One pair is needed for each wheel.

MOLDED WHEEL CHOCKS
The “Perfect” lightweight orange urethane aircraft wheel chocks. Oil and chemical resistant and connected by a 22-inch nylon rope. Concave design that fits into tire. Larger sizes available. Yellow........................P/N 13-11857 ............$55.75

PARK IT PLATES
Park It Plate™ "Standard Series" Plates are made from 100% HDPE and come in a thickness of 1/4”. They are designed to be used on solid, flat surfaces found in hangars, garages, showrooms, and are resistant to most chemicals. They protect your investment in your finished floor coatings from stains and permanent tire marks and will greatly reduce the possibility of paint blistering and delamination. Most importantly, they do all this and make your aircraft, look good at the same time!

24x24..................................P/N 13-18429 ............$53.95
30x30..................................P/N 13-18430 ............$83.95

HANDY CHOCKS
5904 “Handy Chocks” Light Weight - 8 oz Powder Coated Aluminum Chock 1 Pair per Package
Red..................................P/N 13-06405 ............$23.95
Yellow..................................P/N 13-06406 ............$23.95

SAFE T CHOCKS
“Safe T Chock Line” pull rope is a new patented product invented to prevent injuries while chilling wheels on aircraft, GSE, trucks and trailers. The Safe T Chock Line is a high visibility poly braided rope with a vinyl tube sleeve for a handle that will not freeze or cause rope burns. It is also sleeved to slide thru the center hole in the chock blocks. It can easily be modified to fit almost any type of wheel block. This type of wheel block pull rope is designed to reduce wrist, hand and finger injuries as well as making it safer to chock and un-chock aircraft and vehicles.

Description Part Number Price
Line 12” Set 05-12011 $29.95
Line 24” Set 05-12012 $34.75

CHOCKER PROTECTIVE WHEEL COVER/CHOCK
Chockers are a protective wheel cover with built in aluminum chocks. The chocks hold the wheel in place as well as chocking the aircraft. Chockers will also work with RVs, boat trailers, and any other type of vehicle.

700x6/800x6........................P/N 13-19777 ............$68.95

CUSTOM WHEEL CHOCKS FOR LARGE JETS
These custom wheel chocks are lightweight aluminum for large corporate jets. These wheel chocks are carefully fabricated, engraved and then covered with durable powder coating available in grey, black or orange. In addition to being stylish, these wheel chocks are very durable, long lasting and won’t corrode. These are offered as a single pair for nosewheel or as two pair (one for each main wheel). Designed for single main wheel aircraft and are 12” long and made of .25 thick aircraft grade aluminum.

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<th>Description</th>
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WOOD WHEEL CHOCKS
These chocks are made of 100% HDPE that will not freeze or cause rope burns. It is also sleeved to slide thru the center hole in the chock blocks. This type of wheel block pull rope is designed to reduce wrist, hand and finger injuries as well as making it safer to chock and un-chock aircraft and vehicles.

Description Part Number Price
Line 12” Set 05-12011 $29.95
Line 24” Set 05-12012 $34.75

TRAVEL CHOCKS
Very light weight wheel chock designed for airplanes and other vehicles. Compact and easily stored. Powder coated in durable red, blue, or yellow finish. Available in 3 sizes. Chock set for one wheel only.

Large - 3’ x 1/2” x 8” Thick Heat Treated Alum. Medium - 2’ x 2’ x 8” 1/8” Thick Angle Heat Treated Alum. Small - 1’ x 1” x 6” Long x 1/8” Thick Heat Treated Alum. Medium - 2” x 2” x 8” 1/8” Thick Angle Heat Treated Alum. Large - 3’ x 1/2” x 8” Heat Treated 3/16” Thick Alum.

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LIGHTWEIGHT CUSTOM ALUMINUM WHEEL CHOCKS
Extremely lightweight compared to chocks made out of steel. Very Durable Powdercoat finish that will withstand the elements. Extremely corrosion resistant. The chocks include a front and rear chock, connected with a lightweight cable. Small Wheel Chocks - 1.5” angle and 8” wide. Available in Black Powdercoat, Orange Powdercoat, and Grey Powdercoat...Weight is only 9oz per pair, or 18oz for complete set of two pair. These wheel chocks are designed for aircraft up to approximately 3,000 lbs. They are low profile and will fit under the wheel pants of aircraft such as RVs.

Large Wheel Chocks - 2.5” angle and 10” wide. Available in Black Powdercoat, Orange Powdercoat, and Grey Powdercoat - 24oz per pair, 48 oz for two pairs.

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Specify color for Powdercoated Chocks.

RUBBER WHEEL CHOCKS
These rubber wheel chocks measure 4” x 4” x 8” and have reflective tape on all three sides. Connected with nylon rope. Very popular with corporate operations & FBOs.

Chocks w/ your N# or company name...........P/N 13-01766 ............$57.75

AIRGIZMOS WHEEL CHOCKS
These chocks are unique because they are stackable. Cuts down on the amount of space required to carry them in the plane. Durable plastic sides are lightweight, but are made to take a lot of abuse. There is space on the sides to put your airplane’s n-number (you supply the vinyl lettering). The edges of these chocks are made of non-skid material, so they stay where you put them.

Vector Chocks come as a complete kit, each kit containing two Vector Chocks and a roll of industrial grade yellow safety tape.

<table>
<thead>
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<th>Description</th>
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<td>13-01767</td>
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</table>

VECTOR CHOCKS
Hangar rash is the leading cause of ground handling insurance claims. Vector Chocks reduces the chance of hangar rash and will save you a considerable amount of money. Vector Chocks cradle the wheel with their unique ramp design and the energy yellow colored industrial grade safety tape will help guide you from the hangar door to your safe parking place.

Installation is a snap with the peel-n-place feature, which sticks to asphalt, concrete, asphalt with corporate operations & FBOs.

Attention: Total of characters may not exceed 6.

Handy Chocks* Light Weight - 8 oz Powdercoated Aluminum Chock 1 Pair per Package
Red.................................P/N 13-06405 ............$23.95
Yellow...............................P/N 13-06406 ............$23.95

Vector Chocks cradle the wheel with their unique ramp design and the energy yellow colored industrial grade safety tape will help guide you from the hangar door to your safe parking place.

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Red.................................P/N 13-06405 ............$23.95
Yellow...............................P/N 13-06406 ............$23.95

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sm. Bare Aluminum</td>
<td>13-01120-A</td>
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</tr>
<tr>
<td>Sm. Blue</td>
<td>13-01120-B</td>
<td>$23.50</td>
</tr>
<tr>
<td>Sm. Red</td>
<td>13-01120-R</td>
<td>$23.50</td>
</tr>
<tr>
<td>Sm. Yellow</td>
<td>13-01120-Y</td>
<td>$23.50</td>
</tr>
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</table>

Part No. Price
Med. Red 13-01130-R $25.50
Med. Yellow 13-01130-Y $25.50
Med. Red 13-01140-R $25.50
Med. Yellow 13-01140-Y $36.50

Parts Subject to Change Without Notice
CM
WP
ME
HA
AP
LG
EP
CS
IN
EL
AV
TO
PS
BV
WWW.AIRCRAFTSPRUCE.COM

WWW.AIRCRAFTSPRUCE.COM 933

[Image]
SCOTT’S WINDSOCKS

Scott’s windsocks are manufactured of long-life polyester fabric that is treated to resist the effects of wind and weather. All seams are double stitched with polyester thread for strength. The windsock throat is reinforced and has solid brass grommets for easy attachment and corrosion resistance. Nylon ties are included with each windsock to attach it to the frame. Windsocks are available in high visibility orange, white or alternate orange and white stripes. Fully extended at 20 MPH or 15 Knots.

BRIGHT ORANGE

<table>
<thead>
<tr>
<th>Throat Dia.</th>
<th>Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8”</td>
<td>30 inches</td>
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<td>10”</td>
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<td>13-02026</td>
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<td>13”</td>
<td>55 inches</td>
<td>13-04145</td>
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<tr>
<td>18”</td>
<td>5 feet</td>
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</tr>
<tr>
<td>18”</td>
<td>8 feet</td>
<td>13-20202</td>
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<tr>
<td>24”</td>
<td>8 feet</td>
<td>13-20204</td>
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<tr>
<td>28”</td>
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<td>13-20205</td>
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<td>36”</td>
<td>10 feet</td>
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<td>$179.95</td>
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</table>

INTENSE WHITE

<table>
<thead>
<tr>
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<th>Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>18”</td>
<td>5 feet</td>
<td>13-20210</td>
<td>$66.85</td>
</tr>
<tr>
<td>18”</td>
<td>8 feet</td>
<td>13-20222</td>
<td>$98.75</td>
</tr>
<tr>
<td>24”</td>
<td>8 feet</td>
<td>13-20224</td>
<td>$115.75</td>
</tr>
<tr>
<td>28”</td>
<td>7 feet</td>
<td>13-20225</td>
<td>$125.75</td>
</tr>
<tr>
<td>36”</td>
<td>10 feet</td>
<td>13-20226</td>
<td>$193.75</td>
</tr>
<tr>
<td>36”</td>
<td>12 feet</td>
<td>13-20228</td>
<td>$226.95</td>
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</tbody>
</table>

WHITE/ORANGE STRIPE

<table>
<thead>
<tr>
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<th>Length</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>18”</td>
<td>5 feet</td>
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</tr>
<tr>
<td>18”</td>
<td>8 feet</td>
<td>13-20222</td>
<td>$98.75</td>
</tr>
<tr>
<td>24”</td>
<td>8 feet</td>
<td>13-20224</td>
<td>$115.75</td>
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<tr>
<td>28”</td>
<td>7 feet</td>
<td>13-20225</td>
<td>$125.75</td>
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<tr>
<td>36”</td>
<td>10 feet</td>
<td>13-20226</td>
<td>$193.75</td>
</tr>
<tr>
<td>36”</td>
<td>12 feet</td>
<td>13-20228</td>
<td>$226.95</td>
</tr>
</tbody>
</table>

SCOTT’S STANDARD WINDSOCK FRAMES

These very popular frames are constructed of welded steel for strength & durability. They have 2 ball bearings for easy swiveling and are painted for corrosion resistance. The frame is mounted to a 1-inch diameter support pipe threaded to fit a 3/4” size pipe or conduit. Order windsocks separately. 8”............... P/N 13-20229 .......$66.75 24”................ P/N 13-20232 .......$129.75 10”................ P/N 13-20205 ........$75.90 13”................ P/N 13-20231 ........$93.75 18”................ P/N 13-20235 .......$125.75 18”................ P/N 13-20230 .......$90.75

SCOTT’S EXTENDED WINDSOCK FRAMES

The extended frame turns much easier and keeps the windsock headed into the wind like a weathervane. The frame holds the windsock open fully so it will “fly” in lighter winds. Constructed of all welded steel with 2 ball bearings. The frame is mounted to a 1-inch diameter support pipe threaded to fit a 3/4-inch size pipe or conduit. ORDER WINDSOCKS SEPARATELY 18”........ P/N 13-20244 ........$116.75 24”........ P/N 13-20245 .......$142.75

STANDARD WINDSOCK FRAMES

These windsock frames are perfect for both our “Long Life” and “extra long-life” series windsocks. The “Long Life” windsock is made of 100% nylon and is very durable. Even in tough weather conditions, this windsock can hold its own. Order windsocks Separately.

NYLON WINDSOCKS

These socks are windtunnel tested and designed for conditions in which safety and wind direction are of greatest importance. They are constructed of nylon oxford cloth for strength and flyability and dyed a bright orange for higher visibility. The throat and tail bands are stitched with multiple rows of tough synthetic thread. The throat band is finished with #1 brass grommets and nylon ties are included. Unlike canvas or vinyl, these Socks fly in the slightest breeze.

EXTRA LONG LIFE WINDSOCKS

“Extra Long Life” is a heavy-duty cross-woven Aviation blend Poly/Nylon material with special Rip-Stop characteristics, Medium-weight for more flexibility, chemically resistant treated, and Polyurethane coated for bonding strength and water repellency. Ultra-violet dyed for best retention. Nylon support webbing on intake opening with brass grommets. Colorfast International Bright Orange in color. “Extra Long Life” windsocks have an estimate 50% longer life and color retention.

<table>
<thead>
<tr>
<th>Size (in)</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6” x 18</td>
<td>13-04306</td>
<td>$35.50</td>
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<tr>
<td>9” x 30</td>
<td>13-04307</td>
<td>$40.90</td>
</tr>
<tr>
<td>10” x 36</td>
<td>13-04308</td>
<td>$51.75</td>
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<tr>
<td>12” x 48</td>
<td>13-04309</td>
<td>$53.75</td>
</tr>
<tr>
<td>15” x 48</td>
<td>13-04310</td>
<td>$57.75</td>
</tr>
</tbody>
</table>

WINDSOCK PRICES

Prices Subject to Change Without Notice

Scott’s windsocks are manufactured of long-life polyester fabric that is treated to resist the effects of wind and weather. All seams are double stitched with polyester thread for strength. The windsock throat is reinforced and has solid brass grommets for easy attachment and corrosion resistance. Nylon ties are included with each windsock to attach it to the frame. Windsocks are available in high visibility orange, white or alternate orange and white stripes. Fully extended at 20 MPH or 15 Knots.

Bright Orange windsocks have an estimate 50% longer life and color retention. Nylon ties have an estimate 50% longer life and color retention. Life windsocks have an estimate 50% longer life and color retention. Extra Long Life windsocks have an estimate 50% longer life and color retention.

27” VINYL WINDSOCK

Features 27” long x 6-1/2” diameter fluorescent orange vinyl sock. Aluminum mast adjusts from 33” to 54” and up to 12 ft. with extension kit. Perfect for private strip, helipolarers, or runway threshold.

Complete Windsock w/frame P/N 13-20015... $59.95 Replacement Sock .........P/N 13-20025... $22.85

LONG LIFE WINDSOCKS

All Long Life Windsocks are made of heavy-weight cross-woven Aviation blend material having special Rip-Stop characteristics, flexible, chemically resistant treated, Polyurethane Coated for bonding strength and water repellancy, Ultra-violet dyed, with Nylon Web support and brass grommets. Color: Colorfast International Orange. Estimated 50% longer life and color retention. Aviation sized windsocks. FAA approved sizes per FAA Advisory Circular #AC 150/5345-27C dated 07/85. Estimated wind speeds: Fully extended shape for all sizes listed below, (wind tunnel tested) to be special cut Specification of 15 knots = 16.5 mph. 18” - 28” diameter windsocks 96” in length. 36” diameter 144” in length.
AIRPORT WINDSOCKS

What makes these aviation windsocks different?

Two major things make a windsock, its material and its construction. Starting off with a premium nylon fabric that is made right here in the USA to exact standards. Nylon offers unparalleled windsock durability to the elements and will not become rigid in cold weather, keeping these windsocks extremely responsive in even the slightest of wind. From there it gets urethane coated and UV protected, giving the windsock superior fade resistance and color retention. The material is subjected to a variety of tests by an independent lab to verify its structural integrity and UV resistance. This superior material is then cut and sewn. Our reinforced double stitched hems and heavy duty brass grommets, assures these windsocks long life reliability.

The added expense of a superior material and manufacturing process meets the needs of even the most demanding windsock customers. Such as: US Military, US Coast Guard, US Embassies, State Airports, Offshore Oil Rigs, Nuclear Power Plants, Medical Heliports, Government Bio Hazard Units.

ORANGE WINDSOCKS

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange Windsock</td>
<td>4&quot; x 15&quot;</td>
<td>13-06386</td>
<td>$17.80</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>6&quot; x 24&quot;</td>
<td>13-06387</td>
<td>$18.50</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>8&quot; x 36&quot;</td>
<td>13-06388</td>
<td>$24.70</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>10&quot; x 48&quot;</td>
<td>13-06389</td>
<td>$35.80</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>12&quot; x 54&quot;</td>
<td>13-06390</td>
<td>$40.65</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>18&quot; x 90&quot;</td>
<td>13-06400</td>
<td>$66.75</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>24&quot; x 144&quot;</td>
<td>13-06401</td>
<td>$118.75</td>
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ORANGE AND WHITE WINDSOCKS

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange &amp; White Windsock</td>
<td>4&quot; x 15&quot;</td>
<td>13-06472</td>
<td>$25.50</td>
</tr>
<tr>
<td>Orange &amp; White Windsock</td>
<td>8&quot; x 36&quot;</td>
<td>13-06473</td>
<td>$36.85</td>
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<tr>
<td>Orange &amp; White Windsock</td>
<td>10&quot; x 48&quot;</td>
<td>13-06474</td>
<td>$47.50</td>
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<tr>
<td>Orange &amp; White Windsock</td>
<td>12&quot; x 54&quot;</td>
<td>13-06475</td>
<td>$60.25</td>
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<tr>
<td>Orange &amp; White Windsock</td>
<td>18&quot; x 90&quot;</td>
<td>13-06476</td>
<td>$97.75</td>
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<tr>
<td>Orange &amp; White Windsock</td>
<td>24&quot; x 144&quot;</td>
<td>13-06477</td>
<td>$141.75</td>
</tr>
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</table>

BALL BEARING FRAMES

The ball bearing windsock frames are a rugged design constructed of a welded steel construction and then a powder coated finish for corrosion protection. They incorporate a two bearing pivoting design for effortless pivoting. These frames are ready to be mounted on a ¼" female pipe thread for the 8", 13", 18" and 24" and a 1" pipe thread for the 36".

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball Bearing Frames</td>
<td>8&quot;</td>
<td>13-06481</td>
<td>$46.50</td>
</tr>
<tr>
<td>Ball Bearing Frames</td>
<td>13&quot;</td>
<td>13-06482</td>
<td>$56.90</td>
</tr>
<tr>
<td>Ball Bearing Frames</td>
<td>18&quot;</td>
<td>13-06483</td>
<td>$73.75</td>
</tr>
<tr>
<td>Ball Bearing Frames</td>
<td>24&quot;</td>
<td>13-06484</td>
<td>$76.85</td>
</tr>
<tr>
<td>Ball Bearing Frames</td>
<td>36&quot; Non Collapsible</td>
<td>13-06485</td>
<td>$139.75</td>
</tr>
</tbody>
</table>

EXTENDED BALL BEARING FRAMES

These windsock ball bearing extended frames are a rugged design constructed of a welded steel construction and then a powder coated finish for corrosion protection. They incorporate the same high quality construction as our standard ball bearing frames with the added performance of an extended frame. They incorporate a two bearing pivoting design for effortless pivoting. These frames are ready to be mounted on a ¼" female pipe thread for the 13" and 18" frames. Use 1" female pipe thread for mounting the 24" and 36" frames.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended Ball Bearing Frames</td>
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<td>13-06487</td>
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<tr>
<td>Extended Ball Bearing Frames</td>
<td>18&quot;</td>
<td>13-06488</td>
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<td>Extended Ball Bearing Frames</td>
<td>24&quot;</td>
<td>13-06489</td>
<td>$122.75</td>
</tr>
</tbody>
</table>

VERTICAL SOCK KITS

These complete kits include our standard frame, windsock, windsock ties, pole, and brackets. They are a stand alone unit for mounting on a flat or vertical surface or they can be installed right onto an existing 3/4" pipe thread pole.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
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<td>13-06491</td>
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<td>Vertical Mount Windsock Kit</td>
<td>12&quot; x 54&quot;</td>
<td>13-06494</td>
<td>$98.85</td>
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<tr>
<td>Vertical Mount Windsock Kit</td>
<td>18&quot; x 90&quot;</td>
<td>13-06495</td>
<td>$112.75</td>
</tr>
</tbody>
</table>

TRIPOD MOUNT WINDSOCK KIT

These complete kits include our standard frame, windsock, windsock ties, pole, and tripod. They are a stand alone unit for mounting on a flat or vertical surface or they can be installed right onto an existing 3/4" pipe thread pole.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tripod Mount Windsock Kit</td>
<td>8&quot; x 36&quot;</td>
<td>13-06496</td>
<td>$96.75</td>
</tr>
<tr>
<td>Tripod Mount Windsock Kit</td>
<td>12&quot; x 54&quot;</td>
<td>13-06497</td>
<td>$124.95</td>
</tr>
<tr>
<td>Tripod Mount Windsock Kit</td>
<td>18&quot; x 90&quot;</td>
<td>13-06498</td>
<td>$128.75</td>
</tr>
</tbody>
</table>

PORTABLE WINDSOCK KIT

This rugged, stand alone unit comes complete with the pole, frame, windsock and windsock ties. This free standing system measures over 7" tall in its assembled configuration. It features an extremely rugged design that incorporates a pole with a foot lug and handle for easy installation and removal. The two part pole disassembles for easy transportation. The frame conveniently screws onto the top of the pole. Its aluminum hoop and ball pivot on a stainless steel shaft for years of reliable and responsive action. These high quality socks are constructed from U.S. made nylon fabric that is urethane coated and UV protected.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable Windsock Kit</td>
<td>8&quot; x 36&quot;</td>
<td>13-06502</td>
<td>$119.75</td>
</tr>
<tr>
<td>Portable Windsock Kit</td>
<td>12&quot; x 54&quot;</td>
<td>13-06503</td>
<td>$122.95</td>
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<tr>
<td>Portable Windsock Kit</td>
<td>18&quot; x 90&quot;</td>
<td>13-06504</td>
<td>$138.75</td>
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AVIATION UNLIGHTED WINDSOCK FRAMES

Non-lighted, heavy duty ball-bearing frame, with 1-75 to 300W lamp, extended to 30" double hoop frameworks. (3/8" round metal frameworks) FAA approved sizes per FAA Advisory Circular #AC150/5345-27C dated 07/19/85. Furnished complete with windsocks.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13&quot; w/ Windsock</td>
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<td>18&quot; w/ Windsock</td>
<td>13-04331</td>
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<tr>
<td>20&quot; w/ Windsock</td>
<td>13-04332</td>
<td>$347.00</td>
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<tr>
<td>24&quot; w/ Windsock</td>
<td>13-04333</td>
<td>$386.00</td>
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<td>36&quot; w/ Windsock</td>
<td>13-04334</td>
<td>$1,145.00</td>
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<tr>
<td>Windsock Stationary Base</td>
<td>13-04335</td>
<td>$93.75</td>
</tr>
<tr>
<td>Windsock Hinged Base</td>
<td>13-04336</td>
<td>$207.95</td>
</tr>
<tr>
<td>Windsock Heavy Duty Pole</td>
<td>13-04337</td>
<td>$151.75</td>
</tr>
<tr>
<td>Windsock Galvanized Pole</td>
<td>13-04338</td>
<td>$50.75</td>
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</table>

AVIATION LIGHTED WINDSOCK FRAMES

Internally lighted, heavy duty ball-bearing frame, with 1-75 to 300W lamp, extended to 30" double hoop frameworks. (3/8" round metal frameworks) FAA approved sizes per FAA Advisory Circular #AC150/5345-27C dated 07/19/85. Furnished complete with windsocks.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>18&quot; dia P/N 13-05728</td>
<td>$79.75</td>
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</tr>
<tr>
<td>20&quot; dia P/N 13-05729</td>
<td>$192.00</td>
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</tr>
<tr>
<td>24&quot; dia P/N 13-05730</td>
<td>$289.00</td>
<td></td>
</tr>
<tr>
<td>30&quot; dia P/N 13-05731</td>
<td>$907.00</td>
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</table>

WINDSOCK FRAMES

Totally enclosed housing prevents heavy duty ball-bearing from lock-ups, corrosion, and excessive premature wear. Bearings are permanently sealed ball bearing shielded. Self contained unit easily attaches with 3/4" standard threaded pipe.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; dia P/N 13-20120</td>
<td>$72.75</td>
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</tr>
<tr>
<td>9&quot; dia P/N 13-20121</td>
<td>$78.75</td>
<td></td>
</tr>
<tr>
<td>10&quot; dia P/N 13-20122</td>
<td>$86.75</td>
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</table>
WINDCONE WINDSOCK FRAMES

Small Frames (12" and smaller) - Light-weight frames made of galvanized steel wire. Large Frames (18" and larger) - These are heavy duty frames designed to withstand storm force winds and harsh environmental conditions. Large frames are made of galvanized steel (WCF18) or a combination of steel and cast aluminum (WCF20, WCF22, WCF24).

<table>
<thead>
<tr>
<th>Manufacturer No.</th>
<th>Hoop Dia</th>
<th>Mounting Collar ID</th>
<th>Max Pipe OD</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>WCF6</td>
<td>6&quot;</td>
<td>1&quot;</td>
<td>7/8&quot;</td>
<td>13-17689</td>
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<tr>
<td>WCF8</td>
<td>8&quot;</td>
<td>1&quot;</td>
<td>7/8&quot;</td>
<td>13-17691</td>
<td>$25.80</td>
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<tr>
<td>WCF10</td>
<td>10&quot;</td>
<td>1&quot;</td>
<td>7/8&quot;</td>
<td>13-17692</td>
<td>$27.50</td>
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<td>WCF12</td>
<td>12&quot;</td>
<td>1&quot;</td>
<td>7/8&quot;</td>
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<tr>
<td>WCF18</td>
<td>18&quot;</td>
<td>1 5/8&quot;</td>
<td>1 1/2&quot;</td>
<td>13-17694</td>
<td>$137.75</td>
</tr>
</tbody>
</table>

WINDSOCKS

Duck - A heavy duty (9 oz.) cotton army duck which is water repellent. A light weight (6 oz.), easily inflatable material that is UV coated. Cotton of 7 oz. vinyl. All other windcones are made of 9 oz. vinyl. Nylon - This is oxidation resistant. Windcones 12" and smaller are made of 7 oz. cotton army duck which is water repellent and mildew resistant.

Manufactured to conform to rigid Federal Standard #595 with International Orange Military Spec CCC-C-476 nylon. This sock has a four-fold reinforced collar, throat, and tail, with double-stitching. Incorporates precipitation drain. The 18" sock is made of bright red-orange nylon and a Spec CCC-C-476 nylon. This sock has a four-fold reinforced collar, throat, and tail, with double-stitching. Incorporates precipitation drain.

STANDARD FRAMES

Internally supports the windsock for more accuracy. Frames are finished using a powder coated weather guard finish. Smooth free swiveling movement with low maintenance. Mounts on standard pipe.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot; Frame requires 3/4&quot; pipe mount</td>
<td>05-05224</td>
<td>$31.70</td>
</tr>
<tr>
<td>13&quot; Frame requires 1 1/4&quot; pipe mount</td>
<td>05-05230</td>
<td>$198.75</td>
</tr>
</tbody>
</table>

REPLACEMENT WINDSOCK FOR LIGHTED FRAME

Made of bright red-orange Nylon and a white powder coated frame. P/N 05-05232 .. $79.75

INTERNATIONAL EUROSOCK™

Multi-panel sock of bright red/orange and white provides very distinctive visibility, both from air and ground. Fits the standard frames (sold separately).

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13&quot; Eurosock x 55&quot;Length</td>
<td>P/N 05-05224</td>
<td>$46.50</td>
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<tr>
<td>18&quot; Eurosock x 71&quot;Length</td>
<td>P/N 05-05225</td>
<td>$69.85</td>
</tr>
</tbody>
</table>

WINDSOCK-IT WINDSOCK

Designed to conform to rigid Federal Standard #595 with International Orange Mil Spec CCC-C-476 nylon. This sock has a four-fold reinforced collar, throat, and tail, with double-stitching. Incorporates precipitation drain, and has direct frame attach clinch fastener. Includes fastening hardware. 15" mounted length. Frame not included.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>36&quot; COMMERCIAL/ MILITARY WINDSOCK</td>
<td>P/N 05-05232</td>
<td>$79.75</td>
</tr>
</tbody>
</table>

15 mph. Included chrome plated steel mast, adjustable in length from 33" to a full 4.5 ft. This windsock is not a toy, but an honest-to-goodness windsock! Ideal for heliports, hangers and private airstrips.

13" Windsock-It ....................................... P/N 13-20015 $59.95
MONTAGUE CROSSTOWN BIKE


MONTAGUE PARATROOPER PRO


MONTAGUE PARATROOPER ALLSTON

The Allston is a folding bike that combines standard 700c wheels with a Gates carbon belt drive and Shimano Alfine 11 internal gear hub. Grease-less and virtually maintenance free, it’s perfect for urban riding and can be stowed until your next ride. Hydraulic disc brakes provide superb stopping power, a RackStand offers cargo carrying capacity, and extra wide 38mm tires make it comfortable on even the roughest roads.

MONTAGUE FOLDING BICYCLES

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice

PS
**Patmont GSR Cruiser**

The GSR Cruiser is the perfect machine for the customer wanting a quiet, reliable and economical motorized scooter with good performance, but also for beginners wanting an affordable, safe and easy to learn first scooter. The GSR Cruiser is also the perfect machine for motor heads and the after market community, as chassis upgrades and screaming engine mods are widely available. The GSR Cruiser's power plant, the GPL290, is based on the high performance GP290RS engine, designed to be a very reliable, quiet and economical cruiser. Top speeds for the GSR Cruiser are in the mid 20mph range, and its horse power is similar to the earlier GSR40.

**EcoReco Electric Scooters**

EcoReco M3 scooter is an eco-friendly, efficient, portable, and smart electric vehicle, designed for your everyday urban use. In the form of a kick scooter, it is the most practical and economical last mile solution on the market. EcoReco M3/M5 can be easily stored under chairs or a desk, in a car trunk, in a gym locker, and it also works well with public transportsations. Whether you're going the distance or just that extra mile, EcoReco M3 provides a convenient and economical ride for you, and cleaner air for all.

<table>
<thead>
<tr>
<th>Model</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3 Scooter</td>
<td>P/N 13-18595, $999.00</td>
</tr>
<tr>
<td>M5 Scooter</td>
<td>P/N 13-18594, $1,250.00</td>
</tr>
</tbody>
</table>

**Go-Ped Lightweight Motorized Scooter**

Operation is easy with the simple push start capability, just push and Go, stop and fold the bars for carry and you can take the Sport with you anywhere.

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model: GPL290</td>
</tr>
<tr>
<td>Engine Description: Single Cylinder, Two Stroke, Air Cooled</td>
</tr>
<tr>
<td>Engine Displacement: 29cc, Engine Power: 2.5 HP</td>
</tr>
<tr>
<td>Engine Ignition: Electronic</td>
</tr>
<tr>
<td>Engine Cutoff: Handlebar Kill Switch</td>
</tr>
<tr>
<td>Carburetion: Walbro, Transmission: Direct Drive</td>
</tr>
<tr>
<td>Fuel Gas: 2 &amp; 2 Cycle oil @ 40:1</td>
</tr>
<tr>
<td>Fuel Capacity: 1 Liter, Fuel Economy: 100 mpg</td>
</tr>
<tr>
<td>Max Speed: 20 mpg, Dimensions: L-34&quot; W-13&quot; H-42&quot;</td>
</tr>
<tr>
<td>Folded L-34&quot; W-13&quot; H-14&quot;</td>
</tr>
<tr>
<td>Handlebar: 6061-T6 aircraft aluminum, Frame: Aircraft quality: 4130 Chromyl</td>
</tr>
<tr>
<td>Fork: Patented, Canti-levered aircraft quality: 4130 Chromyl fork, Dry Weight:</td>
</tr>
<tr>
<td>20 lbs, Max Load: 400 lbs, Wheel Type: 6&quot;</td>
</tr>
<tr>
<td>Solid Go-Active™ Rubber replaceable tire, Rims Mach: 12 reinforced high impact polymer rims, Front Brake: Wheel Caliper, Rear Brake: Compression, Folding Effortless folding feature for easy storage and carrying, Suggested Usage: City/Cruising, Go-Ped (Sport Model) Blue, Go-Ped (Sport Model) Red.</td>
</tr>
</tbody>
</table>

**Dahon Folding Bicycles**

<table>
<thead>
<tr>
<th>Model</th>
<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>Mu P8</td>
<td>P/N 13-06077, $969.22</td>
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<tr>
<td>Speed Uno</td>
<td>P/N 13-10423, $749.00, P/N 13-10424, $749.00, P/N 13-10419, $399.00</td>
</tr>
<tr>
<td>Jack D7</td>
<td>P/N 13-04795, $749.00, P/N 13-10424, $749.00, P/N 13-08381, $728.47</td>
</tr>
<tr>
<td>Speed D8</td>
<td>P/N 13-10419, $399.00</td>
</tr>
<tr>
<td>Jack D7 Frost</td>
<td>P/N 13-08340, $399.00</td>
</tr>
<tr>
<td>Speed Uno</td>
<td>P/N 13-10419, $399.00</td>
</tr>
<tr>
<td>Jack D8 - Frost</td>
<td>P/N 13-08340, $399.00</td>
</tr>
<tr>
<td>Speed D8</td>
<td>P/N 13-10419, $399.00</td>
</tr>
</tbody>
</table>

**Dahon Jack D7**

The Jack is designed to go any pace you choose and to roll over anything in your path. Forget leaving your urban machine in that communal bike garage and getting knicked and scratched, keep it inside and safe...with you. That's how it should be, right? The Jack is designed around a beefy 7005 aluminum frame and phat Schwalbe Big Apple tires. The Jack has seven nicely-spaced gears to keep things simple, enough for most anything you’re likely to encounter in the city. What kind of bike is this? It’s a human powered urban machine, Jack.

**Dahon Speed D8**

The Speed D8 knows where it’s going and how to get there. Chase your victory with its true value in performance and style, the Speed D8’s stiff frame rigid steering and comfy tires are uncompromising, even on the worst roads.

**Dahon Accessories**

<table>
<thead>
<tr>
<th>Product</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear Rack</td>
<td>P/N 13-08340, $11.80</td>
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</tbody>
</table>
PARA-CUSHION PARACHUTES

PARA-CUSHION 311 - WEDGE
The Para-Cushion 311 Wedge measures 24" (61.5cm) tall by 16" (40.5cm) wide by 1.2" (3.2 cm) thick through-out the back, and 3" (7.5 cm) thick in the seat cushion, and weighs approximately 18.5 lb. (8.4 kg). The 304 is designed to be used in place of a seat cushion. By using an additional Confor® foam cushion the seat thickness of the pack may be from 1" (2.5 cm) to 6" (15 cm) thick depending on the type of airplane and how high the user desires to be in the cockpit. The parachute assembly is designed to be used in airplanes where head room is at a minimum and the backrest is at a straight upright angle with the seat bottom, such as a Pitts S-2B, Model 12, Christen Eagle, RV-4, RV-6, Harman Rocket, and many others.


P/N 13-14779 $1,840.00

PARA-CUSHION 304 - SEAT
The Para-Cushion 304 Seat measures 12" (30.5 cm) tall by 16" (40.5 cm) wide by 1.2" (3.2 cm) thick throughout the back, and 3" (7.5 cm) thick in the seat cushion, and weighs approximately 18.5 lb. (8.4 kg). The 304 is designed to be used in place of a seat cushion. By using an additional Confor® foam cushion the seat thickness of the pack may be from 1" (2.5 cm) to 6" (15 cm) thick depending on the type of airplane and how high the user desires to be in the cockpit. The parachute assembly is designed to be used in airplanes where head room is at a minimum and the backrest is at a straight upright angle with the seat bottom, such as a Pitts S-2B, Model 12, Christen Eagle, RV-4, RV-6, Harman Rocket, and many others.


P/N 13-103441 $2,184.00

PARA-CUSHION 306 - SQUADRON SEAT
The Para-Cushion 306 Squadron Seat measures 16.5" (42 cm) tall by 13" (33 cm) wide by 6.5" (16.5 cm) thick and weighs approximately 19.5 lbs. (8.8 kg). Color Options: Stock Colors are Black, Red, Navy Blue, Royal Blue, and Olive Drab. This applies to Container, trim, and safety. The AcroPro, measures 24" (60 cm) tall by 16" (40 cm) wide by 3" (7 cm) thick and weighs approximately 15 lbs (6.5 kg). In many cases, by removing the back cushion of the seat pan, the pilot may place the 303 in it’s place. The 303 Back is recommended for use in airplanes where head room is at a minimum and moving forward in the cockpit is not a problem.


P/N 13-14781 $2,184.00

ACPROPRO PARACHUTE
The AcroPro is designed with Aerobatic pilots in mind. At just 16 lbs, this lightweight, thin, and comfortable pack supports the pilot during high G maneuvers while maintaining comfort and safety. The AcroPro, measures 24" (60 cm) tall by 16" (40 cm) wide by 3" (7 cm) thick and weighs approximately 16 lbs (6.5 kg). In many cases, by removing the back cushion of the seat pan, the pilot may place the AcroPro in its place. Choose our Standard Harness or the Aerobatic Harness at additional charge. AcroPro comes with: Harness/Container, Mid-Lite Parachute if desired or C-9 (call for price), Ripcord, Lil Grabber Pilot Chute, Carry Bag, and DVD Manual. TSO - C23c cat. B & SAE AS-8015A.

Standard Harness - Harness/Container Only P/N 13-21184 $1,399.00
Standard Harness - Complete Mid-Lite P/N 13-21186 $2,499.00
Aerobatic Harness - Harness/Container Only P/N 13-21185 $1,199.00
Aerobatic Harness - Complete Mid-Lite P/N 13-21187 $2,499.00

P/N 13-14782 $1,090.00

CUSTOM MONOGRAMMING - Monogram your name, N number, or anything that will allow on the front of your container.
P/N 13-04907 $30.50

CAPEWELL RISER RELEASE - For landing in high wind conditions allows the pilot to release the parachute, to prevent dragging. Disadvantages - Heavy and expensive hardware.
P/N 13-04908 $452.00

LUMBAR SUPPORT PAD - A rounded lumbar support pad designed to fit the curve of the vertebrae and provide support in existing channel. Adjustable to just the right position in the small of your back.
P/N 13-15065 $74.75

PARA-CUSHION G-PAD CUSHION - An auxiliary pad that attaches to the back pad of any Para-Cushion. G-pad is formed to snugly fit around the hips. This provides you with fit-and-fly technology that perfectly replaces the original equipment and gives you peace of mind that you have a comfortable, top of the line system.
P/N 13-15067 $121.00

ELT POCKET - This external pocket snaps onto the system and holds the pilots ELT system.
P/N 13-15949 $114.75

PARA-CUSHION 305 - CHAIR
The Para-Cushion 305 Chair measures 42" long (105 cm) by 16" (40 cm) wide by 3" (7 cm) thick and weighs approximately 16.5 lb. (7.5 kg). This back mounted container is built to extend from the shoulders of the user to just above the knees. This long design allows the parachute to be packed in a larger area keeping the system as thin as possible. Confor® Foam padding throughout the system allows the user to comfortably sustain flight for many long hours. The parachute is designed to be used in airplanes where your seat is retracted such as a Grob, Giles 202, the rear seat of an Extra, and many others. System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B

P/N 13-103442 $2,045.00

PARA-CUSHION 303 BACK
The Para-Cushion 303 measures 24" (60 cm) tall by 16" (40 cm) wide by 3" (7 cm) thick and weighs approximately 15 lbs (6.5 kg). In many cases, by removing the back cushion of the seat pan, the pilot may place the 303 in it’s place. The 303 Back is recommended for use in airplanes where head room is at a minimum and moving forward in the cockpit is not a problem. Recommended for use in airplanes such as: ASW-27, PW-5, Cap-10, Zlin 50, and Christen Eagle.


P/N 13-103440 $2,174.00

PARA-CUSHION L-39
The Para-Cushion L-39, measures 27" (68.6 cm) tall by 17" (43.2 cm) wide by 3.5" (8.9 cm) thick and weighs approximately 25.9 lbs (11.7 kg). The 303 is designed exclusively for the L-39 Albatross. The design incorporates existing Russian designed pilot restraint system found on the original assembly, including shoulder roller guide for inertial reel and seat belt buckle at the hips. This provides you with fit-and-fly technology that perfectly replaces the original equipment and gives you peace of mind that you have a comfortable, top of the line system.


P/N 13-15088 $3,412.00

MID-LITE CANOPY
The 26” Mid-Lite is the finest reserve canopy available! It is a highly reliable 24 gore canopy that is approved to FAA TSO C23c Category B. The canopy has been tested to withstand a 5000lb shock load, which means it is built to withstand the rigors of an emergency bail-out. In production since 1987 the Mid-Lite has proven time and time again that it is the most rugged and reliable reserve you can own!

Canopy Shape
Conical
Canopy Cloth
30-50 cfm
(PIA-C-44375d)

Size
26'

Turn Speed
Approx. 7 sec

Number of Gores
24

Forward Speed
6 - 8 mph (10-12 km/h)

Line Length
17 6" Opening Time
1.1 - 2.3 sec

Panels Per Gore
4

Rate of Descent
18.5 lbs @ 225 lbs (6.7 mps)

Suspension Line Material
Type 1A

Canopy Weight
Approx. 7 lbs

Suspension Line Strength
400 lbs

Maximum Weight
254 lbs (115 kg)

P/N 13-14782 $1,090.00

ACCESSORIES

STATIC LINE - 16’ Static Line including B-12 Snap and RV-3 Ring.

Sheepskin Back Pad - Sheepskin pads keep you cool in the summer and warm in the winter.

Smoke
Natural
Black

P/N 13-11307 $168.75
P/N 13-11309 $168.75
P/N 13-11541 $195.00

Quick Ejector Snaps - This is the Military type hardware that can be used in place of the standard B-12 snaps. Works best for former military pilots who have become accustomed to this type of hardware.

P/N 13-04905 $135.75
P/N 13-04910 $195.00

Aero Pad - A zip-on seat pad held in place by the pilot’s weight to restrain the Para-Cushion and prevent shifting during high G maneuvers.

P/N 13-15067 $91.85

WWW.AIRCRAFTSPRUCE.COM
### NATIONAL 360 PREMIUM BACK PARACHUTE

360 Premium Trim Emergency Back Parachutes: Standard design includes a tapered width and teardrop shape that hugs the back and also provides comfortable lower lumbar support. National parachutes are the choice of numerous aerobatic champions and professionals. Designed thin, light weight with comfort in mind and incorporates a user-adjustable main lift web (hip junction) harness.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2 = 2 ea B12 Snaps Legs &amp; (TT) Thread Thru Adapter Chest</td>
<td>13-06664</td>
<td>$2,480.00</td>
</tr>
<tr>
<td>B3 = 3 ea B12 Snaps Legs &amp; Chest</td>
<td>13-12876</td>
<td>$2,989.00</td>
</tr>
<tr>
<td>T3 = 3 ea (TT) Thread Thru Adaptors Legs &amp; Chest</td>
<td>13-15777</td>
<td>$2,953.00</td>
</tr>
<tr>
<td>Q2 = 2 ea QE Snaps Legs &amp; (TT) Thread Thru Adapter Chest</td>
<td>13-15774</td>
<td>$2,755.00</td>
</tr>
<tr>
<td>Q3 = 3 ea QE Snaps Legs &amp; Chest</td>
<td>13-15811</td>
<td>$2,911.00</td>
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</tbody>
</table>

### NATIONAL PARACHUTE 360 PREMIUM SEAT

National’s Seat Pack is especially desirable when the cockpit has more vertical space than horizontal. For added comfort, the seat pad has one inch of “Astronaut Foam” above the parachute container (user accessible/adjustable via Velcro closure).

Color choices include: Navy blue, Royal Blue, Red, Red and Black. All four color choices are available with matching binding and harness or black binding, diamond quilting and harness.

*360 = Recommended Pilot Weight is up to 177 lbs.

### NATIONAL 425 PREMIUM BACK PARACHUTE

Standard design includes a tapered width and teardrop shape that hugs the back and also provides comfortable lower lumbar support. National parachutes are the choice of numerous aerobatic champions and professionals. Designed thin, light weight with comfort in mind and incorporates a user-adjustable main lift web (hip junction) harness.

Color Choice: Black, Red, Royal Blue or Navy Blue (Black Trim & Harness)

\[ \text{Partial List} \]

### NATIONAL PARACHUTE 425 PREMIUM SEAT

National’s Seat Pack is especially desirable when the cockpit has more vertical space than horizontal. For added comfort, the seat pad has one inch of “Astronaut Foam” above the parachute container (user accessible/adjustable via Velcro closure). Added comfort, the seat pad has one inch of "Astronaut Foam" above the parachute container (user accessible/adjustable via Velcro closure). Color choices include: Navy blue, Royal blue, Red, Red and Black. All four color choices are available with matching binding and harness or black binding, diamond quilting and harness.

*425 = Recommended Pilot Weight is up to 208 lbs.

### NATIONAL 490 PREMIUM BACK PARACHUTE

490 Premium Trim Emergency Back Parachutes: Standard design includes a tapered width and teardrop shape that hugs the back and also provides comfortable lower lumbar support. National parachutes are the choice of numerous aerobatics champions and professionals. Designed thin, light weight with comfort in mind and incorporates a user-adjustable main lift web (hip junction) harness.

Color Choice: Black or Red or Navy Blue (Black Trim & Harness)

\[ \text{Partial List} \]

### NATIONAL PARACHUTE 490 PREMIUM SEAT

National’s Seat Pack is especially desirable when the cockpit has more vertical space than horizontal. For added comfort, the seat pad has one inch of “Astronaut Foam” above the parachute container (user accessible/adjustable via Velcro closure). Color choices include: Navy blue, Royal Blue, Red, Red and Black. All four color choices are available with matching binding and harness or black binding, diamond quilting and harness.

*490 = Recommended Pilot Weight is up to 208 lbs.

### SOFTIE EMERGENCY PARACHUTES

#### MINI-SOFTIE
- Extremely small, lightweight and comfortable backpack parachute system designed for use in today’s restricted cockpit environments, and by persons weighing up to 240 lbs. Choice of Conventional Harness or Aerobatic Harness. Container is 2.25” thick x 15” wide x 23” long. Canopy Type: Steerable Conical. Total weight: 15 lbs.\[ P/N 13-03505-X...$2,585.00 \]

#### MICRO-SOFTIE
- Designed to fit and stay secure over the shoulder of smaller individuals. Used by persons weighing up to 180 lbs. Choice of Conventional or Aerobatic harness. Container is 2.25” thick x 13” wide x 22” long. Canopy Type: Steerable Conical*. Total weight: 14 lbs.\[ P/N 13-03510-X...$2,585.00 \]

#### LONG-SOFTIE
- Designed to conform to and maximize the comfort of the seating found in todays high performance gliders and aerobic aircraft. Available in either 180 lb.(13” wide) or 240 lb. (15” wide) versions. Choice of standard H harness or the unique crossover style Aerobatic Harness. Container specifications: 2.25” thick x 13” or 15” wide x 35” long. Canopy Type: Steerable Conical*. Total weight: 16 lbs.\[ P/N 13-03551-X...$2,635.00 \]

#### SOFTIE-SEAT PACK
- Designed for use in aircraft that have no room for a backpack style parachute. Used by persons weighing up to 240 lbs. Container is 15” wide 14” fore & aft 2 1/2” thick. Canopy Type: Steerable Conical. Total weight: 16 lbs.\[ P/N 13-03502-X...$2,627.00 \]

#### WEDGE-SOFTIE
- Designed specifically to add lumbar and sacral support during high, positive G maneuvers. Ideal for the upright seating found in Pitts style seating. Available in either 180 lb. or 240 lb. versions. Choice of standard H harness or our unique crossover style Aerobatic Harness. Container is 2 1/2” thick at bottom, 1/2” thick to top x 15” wide x 23” long. Canopy Type: Steerable Conical*. Total weight: 15 lbs.\[ P/N 13-03524 ...$2,585.00 \]

#### WARBBIRD SEAT PACK SOFTIE
- Designed to fit into the older style “bucket” seats found in warbird aircraft, and for persons weighing up to 240 lbs. The container is 14” wide 11” fore & aft 6” thick. Canopy Type: Steerable Conical. Total weight: 17 lbs.\[ P/N 13-03520-1A ...$2,627.00 \]

### VISIT OUR WEBSITE FOR ADDITIONAL OPTIONS AND HARNESS CHOICES.

#### NOTE:
- Complete the Part Number with Color (-1) Red, (-2) Black (-3) Royal Blue, (-4) Navy Blue, (-5) Grey, (-6) Sage Green or (-7) Olive Drab. Also complete P/N with “C” for Conventional or “A” for Aerobatic. Example: P/N 13-00000-5A.

#### NATIONAL PARACHUTE 490 PREMIUM SEAT

National’s Seat Pack is especially desirable when the cockpit has more vertical space than horizontal. For added comfort, the seat pad has one inch of “Astronaut Foam” above the parachute container (user accessible/adjustable via Velcro closure). Color choices include: Navy blue, Royal Blue, Red, Red and Black. All four color choices are available with matching binding and harness or black binding, diamond quilting and harness.

*490 = Recommended Pilot Weight is up to 208 lbs.

### VISIT OUR WEBSITE FOR ADDITIONAL OPTIONS AND HARNESS CHOICES.

#### NOTE:
- Complete the Part Number with Color (-1) Red, (-2) Black (-3) Royal Blue, (-4) Navy Blue, (-5) Grey, (-6) Sage Green or (-7) Olive Drab. Also complete P/N with “C” for Conventional or “A” for Aerobatic. Example: P/N 13-00000-5A.

### NATIONAL PARACHUTES

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
**CHECKMATE CHECKLISTS**

Checkmate is the only checklist that contains virtually all data desired by pilots to fly the airplane while excluding the extraneous information that leads to inefficiency, confusion, and even refusal to use. They eliminated the tedious and cluttered 15-page flip-book that pilots quickly become discouraged from using.

Checkmate contains the most comprehensive V-speed section in the industry. V-speeds are listed in knots and MPH. Checkmate not only makes a dramatic difference in everyday use, but also in critical situations. Emergency procedures are right there! Every time! With most of the emergencies there is no time to flip pages looking for the correct procedures. Emergency procedures are right there! Every time! With most of the emergencies there is no time to flip pages looking for the correct procedures.

**CHECKMATE IFR**

In the IFR environment organization and management lead to smoother, stress-free and safer outcomes. CheckMate IFR will assist you through preflight planning to touch-down on the IFR flight. Whether you are cleared for approach or radar vectored to the FAF, CheckMate IFR format will help keep the flight business orderly and functional. It is precise & specific to the different phases of those sometimes perilous flights. You will be reminded when to prepare and look ahead to each phase. A quick review of CheckMate IFR before flight will help you determine pilot and aircraft preparedness and legalities, how to give those greatly appreciated pilot reports on icing and turbulence, and what ATC expects you to do after radio failure; Professional information in a concise and orderly manner.

**SURVIVING THE FIRST 24 HOURS CHECKMATE**

Surviving the First 24 Hours CheckMate® clearly details the procedures and equipment that you will need to survive a forced landing and the subsequent 24 hours. The preparation before a flight can easily make the difference between surviving or not surviving. This is one of the most important sets of equipment in a pilot’s pre-flight planning. Available in three sizes.

**CHECKBOOK CHECKLISTS**

Aviation Checkbook is a high quality, multi-page laminated checklist utilizing factory type information for FAA Part 141 and 61 schools. Designed as a primary checkbook giving all details and responses needed by new students or pilots wanting a multi-page checklist without the usual bulky, shirt pocket size with mark and erase surface for notes. The various checkbooks for your aircraft are stacked and color tabs allow you to locate the checklist you need.

**FLYWRITE COCKPIT WRITING PAD**

FlyWrite™ is not another “flight planning” layout. It is designed to give you a dedicated place for all the information that flows while in the cockpit of the aircraft. Convenient top-bound writing pad. Each pad contains 50 5” x 8” sheets and can be used with or without standard junior legal vinyl binders. IFR clearances, ATIS, AWOS, frequencies, flight times, hobbs times, tach times, airport information, frequency changes, hand-off’s, altitude changes, weather, etc., now have a home. There is also an area for random information or diagrams. FlyWrite™ also contains a handy vertical scale which measures mileage for WAC, SEC, TAC, NOS, JEPPE, & ELA charts, eliminating the need for that ruler you can never find...

**MOUNTAIN FLYING CHECKMATE**

CheckMate Aviation’s new Mountain Flying CheckMate™ is in a full color insert that is a plastic card that contains all of the special knowledge required for mountain flying. Competent flying in mountainous terrain requires knowledge far beyond what is taught in standard flight courses; and as most pilots know sooner or later, flying in mountainous terrain is inevitable!

CheckMate Aviation’s Mountain Flying CheckMate™ covers both the rules and common sense of flying that are critical when in this aspect of flight. Available in 3 sizes.

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**Prices Subject to Change Without Notice**

WWW.AIRCRAFTSPRUCE.COM
The Thru-View Emergency Checklist is a heads-up, emergency checklist made of high quality, transparent static cling vinyl that adheres to a window or clear sun visor without the use of adhesive for quick, convenient reference.

Features:
• Engine Failure After Take Off Checklist
• Engine Failure In Flight Checklist
• Engine Fire In Flight Checklist
• Transponder Codes

And Two of the More Commonly used Checklists:
• The Before Takeoff Checklist and
• The Before Landing Checklist

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### QREF CHECKLISTS


**Qref Cards** - Topics Covered: Preflight, Takeoff/Cruise, Landing, Abnormals and Emergencies, V-speed list.

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SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE LISTING OF QREF CHECKLISTS.

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### E.S.P. CHECKMATE™

E.S.P. CheckMate™ is a 1st for Aviation, and the only product of its kind available. Our new “Emergency Substitute Pilot™ could save the lives of you and your passengers by providing the most basic and simplest of terms and procedures to the NON-PILOT, in the unfortunate event the real pilot becomes incapacitated. E.S.P. CheckMate™ assists the NON-PILOT in controlling the aircraft, reaching help on the radio, and if necessary, landing the aircraft. The graphical format makes it easy and comfortable to follow. E.S.P. CheckMate™ can easily be the difference in the outcome of this most serious type of emergency. For safety and readability, we are publishing only in 7.5" x 10" size........../N 13-01834 ..........$14.95
**FLIGHT COMPUTERS**

**E6-B METAL FLIGHT COMPUTER** - The best slide-rule-style flight computer on the market, with solid aluminum construction and easy-to-read lettering. ASA’s E6-B features a wind component grid and comprehensive crosswind correction chart, and on the other side the slide computes time, speed, distance, altitude, true airspeed, and density altitude problems as well as conversions. Nautical and statute scales are included.

P/N 13-008133...$24.95

**E6-B PAPER FLIGHT COMPUTER** - Made from solid, heavyweight fiberboard, an economical version of the aluminum model described above including all its problem-solving features. P/N 13-022988...$10.95

**MICRO E6-B** - This pocket-sized, brushed aluminum E6-B is a full function aviation computer. Popular among military pilots, it features a high-speed and low-speed wind correction slide, high-speed compressibility table, and instruction manual. Micro E6-B performs all the standard manual flight computer functions, and it conveniently fits in a shirt pocket or glove box.

P/N 13-022999...$23.95

**E6-B HIGH SPEED SLIDE** - A companion product, this slide picks up where the traditional metal flight computer leaves off (ASA-E6-B), providing calculations for the high-speed realm of flight (in the range of 220-700 knots or miles per hour). Pilots simply replace their current slide with this one, which then continues to use the circular computer from traditional E6-Bs. The slide also includes compressibility correction chart, ICAO Standard Atmosphere reference table, worldwide time conversion table, speed limits for the United States, and most frequently-used weight & balance formulas. All of the pertinent formulas & information required for high-altitude, high-speed operations. Meets both FAR & JAR (international) requirements. P/N 13-023011...$11.95

**E6-B CIRCULAR FLIGHT COMPUTER** - The E6B Circular Flight Computer combines high-quality construction with easy-to-read lettering to deliver the most efficient, accurate, and convenient manual flight computer available. Perform multiple calculations ranging from basic arithmetic and flight planning problems to complex in-flight computations. The E6B Circular Flight Computer is a great tool to use during flight planning, flight training or studying, and may be used during FAA written knowledge exams. Pilots flying faster aircraft at higher altitudes will find this computer useful in gaining insight to the external atmospheric conditions and the effects they have on in-flight performance. P/B 13-16352...$24.95

**PROFLIGHT FIXED AZIMUTH PLOTTER** - The ProFlight Fixed Azimuth Plotter is: • Manufactured & Packaged in the U.S.A. • Made from Premium Clear 8010 Polycarbonate • More Flexible & Warp Resistant than Acrylic or PVC • Printed using Ultra Violet Resistant Ink • Laminated for Lifetime Scratch Protection • Clearly Distinguishable White. Sectional/Terminal Side & on Reverse, a Blue WAC Scale ProFlight PF-AP-1 Plotter - Your PF-AP-1 is a premium Fixed Azimuth Plotter designed for measuring distances and courses on VFR navigational Sectional, Terminal & World Aeronautical Charts. This plotter has been designed to exacting standards and slight variations with chart scales may exist as a result of the instability of paper charts in certain temperature and humidity conditions. P/N 13-11676...$8.75

**SQUARE AVIATION PLOTTER** - Constructed of durable Lexan®, this plotter won’t melt, warp or break in extreme temperatures. Its convenient 5-1/8” square size and ease of use make this plotter a pilot favorite for simple, accurate flight planning. Uses a 1,500,000 scale and includes 5 NM and 10 NM radius rings for quick and easy measurement. The 2 NM grid makes alignment with parallels simple. Plus, it’s guaranteed for life! P/N 13-0065...$5.95

**PLOTTERS**

**ULTIMATE ROTATING PLOTTER** - 13-1/4” long. Rotating azimuth eases flight planning with direct readout of course. Made in USA. P/N 13-03202...$14.95

**ULTIMATE FIXED PLOTTER** - 13-1/4” long. Quick scale reference is provided for both statute and nautical miles. Made in USA. P/N 13-03244...$12.95

**ULTIMATE MICRO PLOTTER** - 8” long. Convenient for flight bag, shirt pocket, or airplane storage. Made in USA. P/N 13-02303...$7.95

**INSTRUMENT PLOTTER** - ASA’s instrument plotter features: 12 scales to accommodate both NOS & Jepp instrument charts, including a conversion scale for Nautical and Statute miles; holding patterns depicted for both Standard and Nonstandard entries; compass roses allowing quick course & bearing information; and professional layout enabling easy reading during en route spot checks. P/N 13-02306...$10.95

**FIXED PLOTTER** - Constructed of sturdy clear plastic with easy-to-read numbers and scales. It includes WAG, Sectional, and Terminal Area scales, and is checked and approved by the Weights and Measures Department. Quick scale reference is provided for both statute and nautical miles. P/N 13-02304...$7.65

**ASA ROTATING PLOTTER** - Features a nonslip rotating azimuth made from strong plastic for quick course readout. Constructed of sturdy clear plastic with easy-to-read numbers and scales. P/N 13-02307...$10.95

**THE PILOT POCKET PEN HOLDER** - The Pilot Pocket PEN holder is the easy solution to stowing pens, pencils and sunglasses in the cockpit. The compact design and suction cup mounting over a variety of placement options in any type of cockpit. A convenient temperature conversion chart is printed on the front for quick reference. Secures firmly to any smooth plastic or glass window surface with its 3 suction cup design. Each suction cup has a pull-off tab, making it easy to detach and reattach. It’s perfect for airplane renters. Built-in pen slots. Convenient holder for your sunglasses. Constructed of high quality, transparent acrylic that is strong, resistant to scratches and won’t discolor in sunlight. A convenient temperature conversion chart is printed on the front for quick reference. 4” high, 1.25” wide and 1.25” front to back. Pilot Pocket...P/N 13-16371...$16.95

**PEN AND TOUCH PAD STYLUS** - A dual-purpose, twist action (black ink) ballpoint pen featuring a soft stylus end for use with touch-screen mobile devices such as iPads, tablets, smartphones, etc. Black barrel with chrome accents. P/N 13-12066...$3.95

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943
ASA PILOT SUPPLIES

APPROACH PLATE BINDER
Made of durable black vinyl with a reinforced spine, it has easy-to-open, 1-1/2" steel rings that accommodate the drill pattern of the approach plates. ASA wings tastefully silver-foiled on the front cover. Choose from either 4-ring NACO or 7-Ring design.

7-Ring........................................P/N 13-02316.......................$10.95
7-Ring Vinyl Pocket........................P/N 13-02317.......................$12.95
7-Ring Poly Folders pk of 10..............P/N 13-02318.......................$3.95
7-Ring Poly Folders pk of 10..............P/N 13-05820.......................$3.95
7-Ring Vinyl Pocket pk of 10.............P/N 13-02318.......................$5.95

ASA 4 RING FLIP BINDER
Perfect for Instrument Pilots who carry a smaller number of approach charts. One-inch rings are attached to a sturdy poly backing, with a loose poly cover. Scoring on front and back covers allows you to flip charts completely around the rings and display the one you want on top. Compact, convenient, and practical.

7-Ring........................................P/N 13-02321.......................$10.95
Replacement Rings.........................P/N 13-12055.......................$4.95

ASA DELUXE RING BINDER
The Deluxe 2" 7-Ring Binder is made of richly-grained simulated leather with edge stitching. It’s bound for maximum durability and equipped with a ring system that will keep your approach plates securely organized and easily accessible. Convenient 8.5" x 9" size makes it easy to fit in almost any flight bag.

ASA Deluxe 1" 7-Ring Binder.............P/N 13-05759.......................$25.80
ASA Deluxe 2" 7-Ring Binder.............P/N 13-05760.......................$29.95

ASA 1 INCH 7 RING TRIP BINDER
The 7-Ring Trip Binder is made of durable poly. It’s bound for maximum durability and equipped with a ring system that will keep your approach plates securely organized and easily accessible. The three rings are spaced to match the 7-hole approach plate drill pattern. Convenient 7" x 9" size makes it easy to fit in almost any flight bag.

ASA Poly Sheet Protector Folders
These durable, translucent plastic covers protect your most frequently used 4-ring or 7-ring style approach plates from wear and tear. These open on three sides. Sold in an envelope containing 10 sheets.

7-Ring Vinyl Pocket pk of 10..............P/N 13-02318.......................$5.95
7-Ring Poly Folders pk of 10.............P/N 13-05821.......................$4.35

5 COLOR DIVIDERS
For quick reference of various sections of both types of approach plate charts, these five distinctly-colored dividers extend out beyond the side of the charts. Set of 5.

7-Ring........................................P/N 13-02323.......................$6.95
7-Ring Vinyl Pocket pk of 10.............P/N 13-02319.......................$5.95

ASA 4 RING NOTEPAD
Compact, convenient writing pad that fits in your approach plate binder. 100 sheets per pad. Weight .80lbs

7-Ring........................................P/N 13-05823.......................$4.90
4-Ring........................................P/N 13-05822.......................$4.90

ASA POLY SHEET PROTECTOR FOLDERS
These durable, translucent plastic covers protect your most frequently used 4-ring or 7-ring style approach plates from wear and tear. These open on three sides. Sold in an envelope containing 10 sheets.

NACO Poly Folders pk of 10..............P/N 13-05820.......................$3.95
ASA Poly Folders pk of 10.................P/N 13-05821.......................$4.35

STUDENT FLIGHT RECORDS
ASA Flight Record Folders provide areas to record pertinent student information, stage checks passed, lesson content, lesson performance, flight hours, instructor notes & endorsements, solo endorsements or aircraft checkout records, and are current to both Part 61 & Part 141 program requirements. Studying & durable, these flight records are available separately, as part of ASA’s pre-packaged training kits, or as part of an ASA PACK - Personalized Aviation Custom Kit.

Speeches & Presentations.................P/N 13-01548.......................$2.35
SFR Private......................................P/N 13-01549.......................$2.35
SFR Commercial..............................P/N 13-01551.......................$2.35
SFR Instrument...............................P/N 13-01547.......................$2.35

CERTIFICATES AVIATION

ACHIEVEMENT AWARDS

HOLDING PATTERN VISUALIZER
This useful tool shows a pilot which entry is appropriate given the assigned holding radial, making it a superb learning tool.

LANDING PATTERN COMPUTER
Easily helps determine appropriate headings for each leg when landing or departing the airport - great teaching aid! Color may vary

YOKE CLIP
ASA’s new yoke clip holds all the necessary flight paperwork right where pilots need it, leaving their hands free to fly. Simple to install, the black plastic, I-Beam construction is strong enough to serve as a pilot’s third hand. The clip is higher than other yoke clips, holding sectionals, approach plates, flight logs, checklists, flight computers, and pens in easy view. The unique, over-centering cam easily adjusts to fit all general aviation aircraft yokes without modification.

ASA PILOT HAT
Pilot cap featuring comfort headband and classic wings logo. Stylish baseball cap. Black with neatly embroidered white ASA wings. Adjustible headband for maximum comfort. No button to interfere with headset band. Long bill for sun protection. Perfect for cross-country flying, lounging with friends or on the tarmac hangar flying. Wear it proudly!

FLIGHT PLANNER SHEETS
Cross-country planning sheets contain a flight plan section, weight & balance calculation chart, special equipment suffix chart, fuel management, space for radio frequencies, & more. Sold in pads of 48.

Prices Subject to Change Without Notice
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ATIS WHEEL PRO
The Atis Wheel™ PRO is a mechanical device designed to help the airplane pilot in recording all ATIS information while presenting the data as a graphic depiction. The Atis Wheel™ PRO is presented on a 3.5" x 5.5" rectangular durable format with seven individual 1.5" wheels positioned about the perimeter of the device along with two, 3" concentric wheels positioned in the center. The Atis Wheel™ PRO information follows the sequential presentation of the ATIS information, providing the pilot the following data: • The ATIS information phonetic letter identifying this specific ATIS report, named sequentially after a phonetic letter of the alphabet. • Example: This is Providence ATIS information ALPHA. • The time the ATIS information was recorded - in ZULU (GMT) time. • In as much as all ATIS information should be current, there is no wheel on the Atis Wheel™ PRO to record the ZULU time. • The DIRECTION from which the wind is blowing. • The VELOCITY of the wind, and wind GUSTS, if any. • The VISIBILITY and SKY condition. • The CEILING of the sky (if any) and cloud height, if OVERCAST. • The TEMPERATURE and DEW POINT. • The RUNWAY in use for LANDING and TAKEOFF. • The instrument APPROACH in use for landing. • The BAROMETRIC pressure, in order to calibrate the altimeter. Additional tower comments (i.e., notice of closed taxies, etc.)

Left Hand ..................................................P/N 13-05003 ..........$3.49
Right Hand ..................P/N 13-05490 ...........$12.95

ATIS-MINDER
Designed in 2000, the ATIS-MINDER™ solved several issues for many pilots and those involved in regular use of the phonetic alphabet. The ATIS-MINDER™ meets this demand with precision and adds efficiency to any cockpit. Excellent teaching tool for the student pilot preparing for their licensing criteria. Can be mounted on the yoke, panel, or kneeborder with the hook and loop fastener provided in the purchased package.

Left Hand ..................................................P/N 13-16442 ..........$34.95
Right Hand ..................P/N 13-16441 ...........$34.95

AERO PRODUCTS RESEARCH
T/S/D COMPUTER KEYCHAIN
1-1/2" diameter. Identical to the real thing, this traditional usable Time/Speed/Distance keychain has a beautiful compass star with flight plan on the back side. The computer keychain is calibrated meaning the ability to relate the key chain to the functions of the E-6B type Time/Speed/Distance computers.

P/N 13-03505 ...........$7.95

EXPERIMENTAL AIRCRAFT CERTIFICATION KIT
A new amateur-built aircraft certification kit created by the Experimental Aircraft Association (EAA) gives builders a simplified way to complete the required FAA paperwork for their new projects. The Amateur-Built Aircraft Certification Kit includes everything you need to register and certify a new experimental amateur-built aircraft in the United States. The 15-page, step-by-step guide walks you through the entire process from getting an N-number to the aircraft inspection, and provides samples to help complete each required form. The kit includes all FAA forms, Experimental sticker (in black), data plate, and a convenient placard decal sheet. ...

P/N 13-04244 ..........$19.99

SPORT PILOT PRE-PRINTED LOGBOOK ENDORSEMENTS
The Instructors Endorsement Pack contains 14 sheets of labels. Each sheet of labels contains 10 copies of a specific endorsement. Each 2" x 4" endorsement label is identified by title and FAR number, has the exact wording as required by the regulations, and has data-prompted blanks for the students’ name, your name, CFI cert.#, etc. ...

Price..................................................P/N 13-01040 ..........$99.95

PN-1 NAVIGATION PLOTTER
Allows easy identification of WAC and Sectional chart scales. Calibrated in statute & nautical miles. (Size: 12.25" x 4")

P/N 13-21724 ...........$12.00

PJ-1 ROTATING AZIMUTH
Measure the true course or to determine the magnetic course of a heading from the magnetic heading scale for sectional terminal area & WAC charts in statute & nautical miles. Size: 3.25" x 13"; 3-3/8" Dia. ...

P/N 13-21726 ...........$15.50

BLIND SPOT’S ALL-IN-ONE PILOT’S RULER
The Blind Spot’s Original Pilot’s Ruler has been designed to offer pilots maximum support, in the simplest way. The concept enables the pilot to solve VFR navigation problems and provide useful information, both at a glance, in only a few seconds and with only one instrument! The use of the ruler is extremely simple & fast. The pilot can concentrate more on flying, less on calculating, thus fly more relaxed and safer.

P/N 13-11733 ...........$19.95

RADIALMATE COMPASS ROSE
RadialMate™, a 3.5" clear 20 mil plastic compass rose allows you to instantly read a desired course by placing the product over any sectional, chart, or graphic. There are no reciprocals to calculate. RadialMate™ of labels contain a hole in the middle, allowing additional use as a string compass. It is conveniently sized to fit in your pocket. RadialMate™ also contains Safe Flight’s vertical scale which measures mileage for WAC, SEC, TAC, NOS, JEP, and ELA charts eliminating the need for that ruler you can never find.

P/N 13-08799 ...........$4.50
JEPPSEN STUDENT CSG
COMPUTERS
This computer made of composite materials works just like an aluminum computer with all the same functions and features, but at a lower cost. Ideal for new students or as an extra to keep at home. Printed numbers are sharp, clear, and easy to read. Like all Jeppesen products, the quality is superior. Plastic ...................... P/N 3866 ............... $14.49

ASA E6B METAL
FLIGHT COMPUTER
The best slide-rule-style flight computer on the market, with solid aluminum construction and easy-to-read lettering. ASA's E6-B features a wind component grid and comprehensive crosswind correction chart, and on the other side the slide computes time, speed, distance, altitude, true airspeed, and density altitude problems as well as conversions. Nautical and statute scales are included. Standard .................... P/N 13-00813 ........... $24.95
Mini .................................. P/N 13-02299 ........... $23.95

ASA COLOR E6-B COMPUTER
ASA's color E6-B is enhanced with color for quick identification of key elements and easier readability. The new color E6-B is based on ASA's most popular model: slide-rule-style flight computer, the ASA-E6B. It's identical in size to the venerable favorite, made with the same solid aluminum construction and featuring all the functionality pilots have relied on for decades. On the circular side, black is used for the rate arrow and units to be calculated, red is used for weight and volume and blue is used for distance, temperature scales. On the wind side, colors are used to identify wind variation: blue identifies west (or right wind correction angle) and red identifies east (or left wind correction angle). Measures 9-3/4" x 5". In The Box: Vinyl case, and Instruction booklet. P/N 13-10288 .................. $29.95

AERO PRODUCTS RESEARCH E6-B
UNIVERSAL FLIGHT COMPUTERS
ALUM SLIDE COMPUTER
The very latest in air navigation computers include not only T/S/D and Dead Reckoning calculations, they now incorporate "Universal" features for world-wide use. E6-B4: Pocket-size deluxe, all anodized aluminum; high/low wind slide. P/N 13-03969 .................. $31.90

APR PLOTTERS

VOR FLASH CARDS
Designed to show any pilot how to look at a VOR receiver and read it at a glance. There's no time in the cockpit to spend slowly analyzing the CDI needle and To/From indicator! VOR-At-A-Glance flash cards will teach you: • The difference between VOR courses and VOR radials • What the VOR does not show you • The best way to think about the course deviation indicator • Inbound vs. outbound course indications • How to instantly know your position relative to the VOR • Tricks for reading interception courses right off the VOR • Pilots need to be able to look at a VOR and read the information off immediately. It's just like when you first learned how to read. There is a big difference between the ability to sound the words out and the ability to look at a work and just read it. Pilots need to be able to "read" the VOR! P/N 13-05773 .................. $39.95
PILOT & COPILOT SEAT HEIGHT PLACEMENT TOOL

This tool is a must have for any pilot and/or Flight School. Here are a few questions to ask yourself that will help explain why a pilot should use this Seat Height Placement Tool before every flight. This cockpit tool gives the pilot the advantage of consistency in their seat height placement in any airplane they fly. Industry wide, landing accidents have been on the rise. A majority of these can be attributed to improper seat height adjustment and sight picture. The Eye Aligner takes the guesswork out of where to adjust your seat, as well as where the proper Eyeline should be. As an aviator, you know all too well that there are flights where your landings are spot on, and flights where your landings are well...let’s just say not everything to brag about.

Through research, pilot surveys, and over 45 years of instruction, the Eye Aligner manufacturer has come to the conclusion that improper seat height adjustment and sight picture is the main contributing factor to this inconsistency. Made in the U.S.A. .........................................P/N 13-19015 .........$89.95

PILOTS FREQUENCY REMINDERS

This little prompter is designed to allow the pilot (especially students) to pre-plan which frequencies will be used during a flight and hang this handy item close at hand in the cockpit. This is ideal when operating in a high density airport area. Helps eliminate cockpit clutter and searching for often used frequencies.................P/N 13-03473 ......... $18.95

ERASABLE HIGHLIGHTERS

These erasable highlighters allow you to highlight all necessary information. They also allow you to erase any marks you’ve made by mistake! With dual ends, these highlighters will make everything you do in the cockpit easier and more efficient.

Pink..........................P/N 14-01638 .........$4.40
Blue..........................P/N 14-01639 .........$2.95

CHINA MARKER WHITE

The economical solution for marking on porous and non-porous surfaces such as paper, cardboard, plastic, wood, glass, ceramics, and some metal.

Product Details:
• Moisture Resistant
• Smooth Writing
• Non-toxic Pigments


HIGHLIGHTER TAPE

A removable alternative to highlighter pens for all kinds of valuable permanent documents. Sticks securely, yet removes easily without damage to most surfaces. Vivid colors can’t be missed, yet transparent feature allows you to see what is underneath. Economical - use as much or as little as you want.

Pink..........................................................P/N 14-01860 $4.95
Yellow..........................................................P/N 14-01861 $4.95
Green..........................................................P/N 14-01862 $4.95
Orange..........................................................P/N 14-01863 $4.95

UNBREAKABLE SUPER PLOTTER

Here’s a special flight planning tool we really like. A colorful little plotter with a rotating azimuth that makes it much easier to plot a coursesline. Place the compass rose over your departure point and rotate the straight edge towards destination. Presto... an instant readout of your course! Reads distance in statute miles or nautical miles for both sectional and WAC charts. Made of bullet proof Lexan. Won’t crack, break, or warp in extreme heat or cold. .........................P/N 13-03473 ......... $18.95

PILOT POCKET XL

The Pilot Pocket XL is the next big thing to come to cockpit organization. Smart phones and bluetooth accessories have grown in size in the last few years and to keep up with that trend, we are introducing the Pilot Pocket XL with a larger storage compartment that won’t sacrifice valuable cockpit space in your cockpit. The Pilot Pocket XL can easily fit an iPhone 8 PLUS, XS, Samsung S10 PLUS and other similar models in addition to our standard pen and sunglasses holder features. The dimensions are 4.5” H x 4 5/8” W x 1 6/8” D, and can hold a phone or accessory up to 3 7/8” W x 1.5” D .........P/N 13-22415 ......... $27.50
**PUT-IT SUCTION CLIP**

This clip is strong enough to hold an approach plate, chart, or checklist. Attaches by a suction cup to the instrument panel, yoke or any other nonporous surface.

P/N 8197 ..........................$5.85

**NO CLUTTER CLIPS**

No Clutter Clips • Holds checklists, approach plates, charts, etc. • Stick on most slick surfaces • UV Resistant

1 Small clip per package …………..P/N 13-06636 ………. $5.95
2 Small clips per package …………..P/N 13-06408 ………. $9.50
1 Large clip per package …………..P/N 13-06409 ………. $6.80

**WATCH-IT ACCESSORY HOLDER**

"World’s most versatile holding device". Lets you mount time pieces and calculators exactly where you want—on the wheel, the yoke tube of clipboard. An ingenious bracket, an adjustable holding loop, and a little Velcro is all it takes. Once positioned, can be mounted & removed repeatedly. Non-reflecting, black materials, weighs less than 1oz. …..P/N 8265 ………..$10.90

**YOKE CHART CLIP**

When you want the chart or approach plate right in front of you - this clip will hold it on the yoke. Adjustable band wraps around the yoke and holds the clip firmly. Fits all general aviation aircraft controls. Non-reflective black finish ……P/N 8135 …………..$9.95

**CESSNA YOKE CLIP**

Yoke Mount Combo Clip (Large). Fits 1” - 1 1/2” Diameter Shaft …………..P/N 13-02845 ………. $5.50

**IFR CHART CLIP**

Make IFR flying simpler by keeping vital instrument approach plates and charts in place. Attached to the yoke rather than in your lap or on the floor, this chart clip comes in various models designed to install easily on the yoke of your aircraft. Insures that your navigational charts stay in front of your eyes when you need them most. Handy for VFR charts as well. We’ll be happy to assist you in determining what model clip will best fit your aircraft.

1.5” Post Standard Clamp …………..P/N 8131 …………..$21.75
1.5” Post Wide Clamp …………..P/N 8487 …………..$21.75
2” Post Standard Clamp …………..P/N 8690 …………..$21.75
2” Post Wide Clamp …………..P/N 8822 …………..$21.95
3” Post Standard Clamp …………..P/N 8674 …………..$3.95
3” Post Wide Clamp …………..P/N 8915 …………..$21.75

**HOLD-IT CHART HOLDER**

Simple and effective, this handy stainless steel clip holds charts right where you need them. Elastic strap attaches securely to leg, aircraft yoke, or visor.

P/N 13-01759 …………..$9.95

**YOKE CLIPS**

Clip this yoke on your aircraft so it does not interfere with movement of controls. Spring may be adjusted for smaller diameter shafts by pinching with pliers.

Large - Used on 1” tube …………..P/N 13-04392 ………. $12.75
Small - Used on 3/4” tube …………..P/N 13-04393 ………. $12.75

**APPROACH PLATE HOLDER**

- 10 leaf • Flip-over (not accordion) • Size: 6” x 9” • Vinyl

P/N 13-02772 …………..$5.95

**CARRY-IT CORDURA TOTE CASE**

This multi-functional tote case is made from black Cordura fabric and features 8 pockets and velcro closures. Holds radios, flashlights, pens, pocket PC, maps, charts & more.

P/N 13-01757 …………..$21.50

**PROLIGHT BOOSTER SEAT POUCH**

- End cockpit clutter • Made of durable Cordura • Stores flashlight, fuel tester, flight guides, approach plates, charts, plotter, E6-B, sunglasses and more. • Available in black, AF blue & red.

Black …………..P/N 13-31871 …………..$16.85
Blue …………..P/N 13-03005 …………..$18.95
Red …………..P/N 13-31870 …………..$18.85

**23 POCKET BIGMOUTH BAG**

17 Multi-use pockets inside and 6 outside organize tools and accessories. Open wide for easy access to bag’s contents. Padded reinforced web carrying handles. 12” L x 8” W x 8” H…P/N 12-00329 …………..$23.85

**12 POCKET TRAYTOTE BAG**

This bag has 2 pockets inside and 10 pockets outside with a 11” x 6” multi-compartment tray which slides securely into bottom of bag. Opens wide for easy access to contents and has reinforced web carrying handles. 12” L x 8” W x 12” H…P/N 12-00163 …………..$52.50

**14 POCKET TRAYTOTE BAG**

This bag features 2 pockets inside, 12 pockets outside, with a 13.5” x 6” multi-compartment plastic tray slides securely into bottom of bag. Opens wide for easy access. 16” L x 9” W x 12” H…P/N 12-00164 …………..$68.75

**MILITARY STYLE TOOL BAGS**

These tool bags are made of heavy-duty military-type tough 18oz./sq.yd. cotton duck with a water repellent mildew-resistant treatment. The mechanics Tool Bags have compartmentalized side pockets with flaps. Hardboard bottoms are completely sewn into each bag and are unexposed. All stitching is of heavy duty nylon thread and the handles are made from heavy military spec. webbing. All inside seams are bound to eliminate raveling of the fabric.Long-tab, self-locking slider. Color: O.D. Green. Available in 2 sizes:

O.D. Green Small: 6” x 6” x 12” Bag …………..P/N 13-02500 …………..$59.75
O.D. Green: Large: 5” x 5” x 16” Bag …………..P/N 13-02600 …………..$64.75

**UNIVERSAL BEVERAGE HOLDER**

This Universal Beverage Holder made of billet aluminum installs easily in any thickness dash or instrument panel. Available in two styles, with square or oval face-polished surfaces, its compact design permits easy installation.

Features: • Billet Face, Tray & Strips • Easy to Install with Simple Tools • In Dash or Under Dash

Installation • Will Install in Any Thickness of Material • Two Styles of Face Plates, Square or Oval • Holds Cans, Bottles & Tapered Cups to 32oz. • Eliminate Face Plate for Stealth Appearance

Oval Face …………..P/N 13-03792 …………..$139.00

**AIRMAN CERTIFICATION HOLDER WITH FAA SYMBOL**

Airman Certificate holder with imprinted FAA symbol …………..P/N 13-19713 …………..$23.95

**LICENSE HOLDERS**

Black leatherette with clear plastic window to display ownership certificates. P/N 13-07900 only includes eyelet holes for mounting and metal plates to keep corners from fraying.

4-7/8” X 6-7/8” …………..P/N 13-07900 …………..$12.95
7-1/2” X 8” …………..P/N 13-17904 …………..$14.50
7” X 5-1/2” …………..P/N 13-17905 …………..$14.75
14” X 5-1/2” …………..P/N 13-17906 …………..$17.75

**NELSON AIRCRAFT DOCUMENT CASE**

This durable, flexible blue cordura pouch is an ideal way to keep aircraft registration, insurance, log books, operating manuals, and other important documents all in one safe location. Measures 18” W x 12” H. Features top quality zipper along front side for easy access and location to mark your aircraft number on front. • Made of Cordura • Two compartments

Red …………..P/N 13-02934 …………..$19.95

**PUT-IT SUCTION CLIP**

This clip is strong enough to hold an approach plate, chart, or checklist. Attaches by a suction cup to the instrument panel, yoke or any other nonporous surface.

P/N 8197 ..........................$5.85
KNEEBOARDS

SOFT-G PLUS KNEEBOARD

This kneeboard is originally designed for high performance fighter & attack aircraft. Standard features include: reversible clip board which allows pocket and document loops to be reversed right or left side, 1-1/2" wide adjustable plastic strap, clear plastic information pocket, removable document loops, 4 elastic pen/pencil slots, side release buckle, durable wire clip, and NEG-G strap.

The performance package includes: information cards, clear document protectors, removable document protectors, and releasable cable ties (holds document protectors securely to kneeboard).

P/N 13-12655 ...........$54.75
P/N 13-12656 ...........$73.75

TRIFOLD KNEEBOARD

The standard features include: right and left light pockets that double as pen/pencil pockets, 1.5" wide adjustable plastic strap, 4 clear plastic information pocket, right & left document loops, side release buckle, durable wire clip, and padded backing.

The performance package includes: information cards, clear document protectors, flex light with fixed or adjustable beam, and releasable cable ties (holds document protectors securely to kneeboard) optional.

P/N 13-12660 ...........$58.75
P/N 13-12661 ...........$69.95

9-G PLUS KNEEBOARD

This kneeboard is originally designed for high performance fighter and attack aircraft. The standard features include: right and left light pockets that double as pen/pencil pockets, 1.5" wide adjustable plastic strap, 3 clear plastic information pocket, right and left removable document loops, side release buckle, durable wire clip, and padded backing.

The performance package includes: information cards, clear document protectors, removable document protectors, and releasable cable ties (holds document protectors securely to kneeboard).

P/N 13-12651 ...........$70.85

MINI TRIFOLD KNEEBOARD

This mini trifold kneeboard measures 8" x 16.5". The standard features include: reversible clip board which allows pocket and document loops to be reversed right or left side, 1-1/2" wide adjustable plastic strap, clear plastic information pocket, removable document loops, 4 elastic pen/pencil slots, side release buckle, durable wire clip, and NEG-G strap.

The performance package includes: information cards, clear document protectors, removable document protectors, and releasable cable ties (holds document protectors securely to kneeboard).

P/N 13-12666 ...........$69.95

JEPPSESEN IFR THREE-RING TRIFOLD

The Jeppesen three ring trifold is great for holding approach charts and features three approach chart pockets, collapsible rings, elastic pen/pencil/penlight holders, and value IFR flight information the clip board. Includes free U.S. Low altitude planning chart. Size: 10" x 20" open.

Kneeboard/Clipboard. P/N 13-06956 ...........$40.85

AERO PRODUCTS RESEARCH KNEEBOARDS

8-3/4" X 10" X 2-1/2" Deluxe kneeboard. Official Air Force and Navy models with quick-release buckles and non-slip foam strips to keep the unit in place. Each model includes 2 heavy-duty paper clamps, pen holder. This is the unpainted version of MXU-163/C. Anodized aluminum. Meets all military specs. MK-2A/C.

P/N 13-03521 ...........$63.75

ASA IFR & VFR KNEEBOARDS

These IFR and VFR Kneeboards are an attractive, light gray, brushed aluminum. Instrument and visual information is clearly silkscreened on the boards so pilots can quickly reference rules at a glance when operating a cyclic or stick. All information on the Kneeboards match current Federal Aviation Regulations. The Kneeboards feature a comfortable, 1.5" wide elastic legband that hugs the leg without binding. Velcro fasteners can be adjusted without removing the kneeboard and fits all leg sizes. A pencil/pen holder is designed into the leg for fast note taking. The Kneeboards also feature a 4-3/4" wide metal clip that is easy to lift and strong enough to hold NOS charts and other necessary papers. Paper-protector elbows secure material, yet paper won’t rip when pulled out.

VFR Kneeboards P/N 13-06925 ...........$13.95
IFR Kneeboards P/N 13-06930 ...........$13.95

NAV-DATA LIGHTED KNEEBOARD

Nav-Data KB-170 Lighted Kneeboard Rugged molded construction used by the U.S. Military with heavy duty elastic strap and buckle to keep it firmly in place. Also has a contoured bottom and foam strips for extra stability. Rheostat control for perfect lighting. Holder for multiple pens or pencils plus built-in pencil sharpener. Upper clip opens 1" wide to hold even large approach plate books. Lower clip allows for more versatility. Compact dimensions: 10"x5.5". Lightweight: approx 16 ounces. Operates on 3 AA batteries (Not Included). P/N 13-11997 ...........$59.95

VFR KNEEBOARD

Jeppesen’s VFR Trifold Kneeboard places information at your fingertips. It organizes and holds charts, flight computers/plotters, flashlight, pen, pilot notes and more. An elastic leg strap sewn to the kneeboard holds this unit comfortably in place with a Velcro closure. Additionally, the foam-crushed back allows for added comfort and leg positioning. The metal clipboard includes valuable information for your VFR and IFR flight needs. Also includes a leg strap that allows you to use the clipboard independent of the kneeboard. Designed for superior strength, abrasion resistance and durability.

(Size: 21” x 11½” open.) P/N 13-06955 ...........$40.95

COVER FOR MILITARY KNEEBOARD

Cover for Military Kneeboard, red in color P/N 13-02891 ...........$9.20

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice

CM
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FORCE PROTECTOR GEAR KNEEBOARD

Go full electronic with the ability to use an iPad, or old school. Perfect companion for any COCKPIT OR VEHICLE. "FPG Knee Chocks" lock down the Kneeboard from slipping with less tension on the leg strap. They are adjustable to any size leg and any position needed. Retention strap to keep pages neat and tidy. Removable writing station with a clipboard that you place as needed. Cell phone pocket. Plenty of small item storage with Velcro enclosure.

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TRI-FOLD KNEEBOARD

This elongated 3-panel kneeboard accommodates aeronautical charts without additional folding. The center section of the 3-panel cordura-like jacket holds the included brushed aluminum kneeboard in place, while the two side pockets offer storage for charts, notes, a flight computer, pencil, pen and more.

Quick VFR reference information is tool led into the brushed aluminum kneeboard offering resources for weather and flight planning, VFR ceilings, visibility, cloud clearance, cruising altitudes, pilot weather reports, light gun signals, a crosswind component graph, and more. A wide, sturdy clip on the kneeboard holds papers on place. The left inside panel of the jacket has two pockets for flight plans and notes, as well as elastic straps for holding a flight computer or other flight accessory. The right hand panel has a see-through pocket for easy chart viewing and storage. The hook-and-loop fasteners on the elastic leg band allow the kneeboard to adjust to a variety of leg sizes. Closed Dims: 10-1/4" Length x 6-1/2" Width. Open Dims: 10-1/4" Length x 21" Width. Includes metal clipboard shown in center of the photo. Does not include E6B Flight Computer or charts in the right and left pockets.

P/N 13-06950 ........... $37.95

FLIGHT OUTFITTERS IPAD KNEEBOARDS

Flight Outfitters now offers an enhanced version of its popular kneeboards, designed to hold any iPad, up to the 10.5" iPad Pro. Flight Outfitters Kneeboard maintains the same features original kneeboard but with added versatility to enhance situational awareness, visibility, cloud clearance, cruising altitudes, pilot weather reports,轻便型膝板，采用超轻质的材料，包括一个夹层式设计，可以夹紧你的笔记本电脑或平板电脑。

Kneeboards take cockpit organization to a whole new level. Loaded with innovative, pilot friendly features, these kneeboards provide a sturdy mounting bracket for an iPad. Updated design uses expandable loops to securely hold the corners of the iPad to the bracket. This allows you to keep your iPad in your case instead of removing it for every flight. Small - 8.25" x 6" W x 3"D.............P/N 13-21544 ........... $65.00
Large - 10" H x 8" W x 3"D.............P/N 13-21545 ........... $75.00

MYCLIP MULTI KNEEBOARD STRAP

The MyClip Multi works on all Apple® iPads including the iPad Pro, iPad Air, iPad Mini and the iPhone 11! The updated product design securely holds almost any tablet with a thickness of .85 inches or less. This innovative product will even hold smartphones over 3 inches in width like the Galaxy Note. Uniquely engineered clips will securely hold a bare iPad as well as one in an armored case.................P/N 13-22441 ........... $34.95

EFB CADDY

In a word it is all about "SAFETY"! With the advent of Electronic Flight Bag(EBF) software, Tablet technology and ADS-B receivers, today's GA pilot has access to reasonably priced, portable technology that greatly improves the safety conditions, under which they can now operate. Enhanced situational awareness and reduced pilot workload, both preflight and in-flight, are but two of the several benefits. EFB CADDY was designed to further improve the pilot experience, by addressing the deficiencies found in many of the current Tablet holder products. Secure physical attachment and head-strap for the checklist on the right side and two pockets on the right side. More durable and water resistant nylon. Removable strap for the checklist on the right side and pencil holders, a small pocket for CEPs, and a larger pocket for an E6B on the right side. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.

Model: A - Cradle / Size: Large. Height 8.25" - 11.25" Width 7.75" Max., Depth 0.56" Max.
Model: B - Cradle / Size: Small, Height 8.25" - 11.25", Width 6.80" Max., Depth 0.50" Max.

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W-2 KNEEBOARD

Kneeboard is made from highly durable and water resistant nylon. Removable strap for the checklist on the left side and two pockets on the right side. One pocket for an E6B and the other for a flashlight. Two pencil pockets. An added feature is the clear strap that goes across the clipboard to keep pages from flying. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.

P/N 13-19806 ........... $27.95

W-4 KNEEBOARD WITH FLIP POCKETS

Kneeboard is made from highly durable and water resistant nylon. Removable strap for the checklist on the left side and pencil holders, a small pocket for CEPs, and a larger pocket for an E6B on the right side. An added feature is the clear strap that goes across the clipboard to keep pages from flying. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip. 6 clear pockets that flip up and down.

P/N 13-19807 ........... $37.95

AVIATE PILOT KNEEBOARD

- Removable Clipboard – black non-glaring clip with rubber corners secure your contents on the lightweight but removable durable plastic clipboard which allows you to write on your knee.
- Fully Adjustable – easy to use elastic strap adjusts to any size leg and hold strong with Velcro.
- Convenient Design – holds pens, pencils, tire pressure gauge and a pocket to hold ear plugs and other small items.
- Includes 7 Rings – accommodates your approach plates, checklists, manuals or any other 7 hole pilot documents.
- Kneeboard Details – made of rugged canvas, 11.5" wide and flexes around the leg, 8.5" long, clipboard is 5.2" x 8.3"

P/N 13-21477 ........... $37.95

W-2 KNEEBOARD

Kneeboard is made from highly durable and water resistant nylon. Removable strap for the checklist on the left side and two pockets on the right side. One pocket for an E6B and the other for a flashlight. Two pencil pockets. An added feature is the clear strap that goes across the clipboard to keep pages from flying. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.

P/N 13-19806 ........... $27.95

W-4 KNEEBOARD WITH FLIP POCKETS

Kneeboard is made from highly durable and water resistant nylon. Removable strap for the checklist on the left side and pencil holders, a small pocket for CEPs, and a larger pocket for an E6B on the right side. An added feature is the clear strap that goes across the clipboard to keep pages from flying. Fastened to

P/N 13-19807 ........... $37.95

AVIATE PILOT KNEEBOARD

- Removable Clipboard – black non-glaring clip with rubber corners secure your contents on the lightweight but removable durable plastic clipboard which allows you to write on your knee.
- Fully Adjustable – easy to use elastic strap adjusts to any size leg and hold strong with Velcro.
- Convenient Design – holds pens, pencils, tire pressure gauge and a pocket to hold ear plugs and other small items.
- Includes 7 Rings – accommodates your approach plates, checklists, manuals or any other 7 hole pilot documents.
- Kneeboard Details – made of rugged canvas, 11.5" wide and flexes around the leg, 8.5" long, clipboard is 5.2" x 8.3"

P/N 13-21477 ........... $37.95
FLIGHT DESK TRI-FOLD KNEEBOARD

Flight Desk Kneeboard greatly improves cockpit organization of charts & accessories. Unlike some other kneeboards with limited utility, will hold sectional charts, a large E6B type computer, and has two elastic loops on either side of the clipboard to hold a goose-neck type flashlight. If the middle loop is not used for a computer, it can be used to hold a handheld transceiver. 

INSTRUMENT MANUAL AND CHARTS BAG

It will hold all your required instrument manuals and charts. This bag has a flap with velcro closure, two handle straps for added strength, and outside pockets perfect for pen and pencil supplies.

SECRET POCKET PHONE CASE GENUINE LEATHER

This travelers accessory is made of lightweight / flexible genuine leather. Capacity for a phone up to 3-1/4" in width x 5" in length. The extended secret pocket 6" in depth fits smoothly along side your hip underneath clothing to easily hide: Passport, Money, Credit Cards, Small Valuables, and much more.

TRIFOLD WITH POCKET KNEEBOARD

Kneeboard is made from highly durable and water resistant nylon. Compact kneeboard made with the small cockpit in mind. One pocket on the front, two pockets on the left, two pencil holders, and a plastic pocket on the right. An elastic band to hold a flight computer and a plastic clipboard in the center. When closed, the kneeboard is held together with velcro fasteners. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.

ULTIMATE KNEEBOARD IPAD HOLDERS

The Ultimate Kneeboard iPad® holder comes with a money back guarantee and is made in the USA by folks from Boise, Idaho. The extended secret pocket 6" in depth fits smoothly along side your hip underneath clothing to easily hide: Passport, Money, Credit Cards, Small Valuables, and much more.

HARPER KNEEBOARDS

FIXED RING ULTIMATE KNEEBOARD™

The fixed-ring model is the most popular kneeboard. The convenience of the snap-open, ring binder design makes it ideal for quickly changing pages, charts and checklists. Pilots flying into multiple airports or flying a variety of planes will find the fixed-ring design perfectly suited for them.

LOOSE RING ULTIMATE KNEEBOARD™

Our loose-ring model has seven independent rings which are not bound together. The result is a kneeboard that molds perfectly to the shape of the pilot’s leg. It is ideal for pilots who primarily fly the same airplane in and out of the same airport.

NELSON KNEEBOARDS

MILITARY TRI-FOLD

• Size: 19.5”x11.5” (open), 11.5”x7” (closed) • Holds sm E6-B, stopwatch, pencils • Supplied w/pad of 50 flight logs • Aluminum board holds approach plates • Gray...P/N 13-06910 $21.75 • Olive...P/N 13-02903 $21.00

LARGE TRIFOLD KNEEBOARD

Kneeboard is made from highly durable and water resistant nylon. One pocket on the front (when closed), two pockets on the left, two pencil holders, and a plastic pocket on the right. An elastic band to hold a flight computer and a plastic clipboard in the center. When closed, the kneeboard is held together with velcro fasteners. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.

Prices Subject to Change Without Notice

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**THE APPSTRAP FOR IPAD**

Converts the iPad or iPad2 into a pilot kneeboard. iPad™ instantly detachable from leg strap via Velcro™ joint. Great for flight crews who must share or stow device. Change between portrait & landscape effortlessly. Made of high-quality Aluminum & professional grade webbing.

For iPad 2, 3, and 4 & allows for power plug or GPS booster.  
P/N: 11-10399 $54.75

**APPSTRAP IPAD GEL CASE 2/3**

The original AppStrap now with a Gel case. TPU Gel Case. Fits the iPad and the new iPad Air. Product includes black, form-fitting protective gel case, adjustable leg strap and buckle, and 2 Tilt Pads for glare reduction and stability. 
P/N: 13-14558 $45.75

**THE APPSTRAP 5**

Fits most tablets (8” - 10”) when used with large protective case (Not Included) Devices: iPad-1, iPad mini, Fire 8.9, Galaxy 10.x, Nexus. Cases: Otterbox Defender, Gumdrop Droptech, Griffin Survivor. Larger clip accommodates most heavy-duty cases. Fits cases 3/4” thick or less. 
P/N: 13-14753 $47.85

**G-FORCE MOUNT FOR APPLE IPAD**

The G-Force GF260 iPad Mount is everything you need to re-take control of your cockpit and restore confidence to your passengers. Your passengers? You bet! What are they thinking while you’re fiddling with that thing in your lap. The G-Force GF260 iPad Mount comes complete: with a custom-designed cradle, tailored to your iPad-1 or iPad-2, to the remarkable G-Force GF2 Twin base. In lab tests, the GF2 Mount holds 53.25 gross pounds and withstands a shear force of 16.38Gs. In real time, that means one GF260 Mount Will Support Thirty-Nine iPads. Rest assured, the G-Force iPad Mount will hold up your window to the world. User Guide included. 
P/N: 11-10741 $66.75

**ASA IPAD MINI / AIR ROTATING KNEEBOARD**

Designed by pilots for pilots, the high-quality iPad Rotating Kneeboard is covered with soft, leatherlike material and features a wide hook-and-loop leg strap to hold the kneeboard in place during flight. Inside, the rotating iPad frame holds the device securely and allows for 360-degree rotation of the iPad. An easel is built into the kneeboard for adjustable tilted viewing, in and out of the cockpit. The power port is accessible with the cover closed, a window exposes the camera lens for easy picture taking, and a small elastic loop securely holds a pencil, pen or stylus.

Features:
- Functional - Elastic strap makes for a secure fit in the cockpit; sturdy clips hold device in place.
- Versatile - Rotates 360 degrees to provide both portrait and landscape options. Variable tilt feature allows for flat or pitched positioning in the cockpit or on the desktop.
- Multitasking Binder and Kneeboard - Window for camera. Elastic loop securely holds a pencil, pen or stylus. Strap kneeboard to your leg in portrait or landscape position.

iPad Mini ........................................P/N: 13-22232 $45.50
iPad Air ...........................................P/N: 13-22233 $45.50

**AIRGIZMOS IPAD PANEL DOCK (GEN 1, 2, & 3)**

If you need to mount your iPad in your plane this might be the solution you are looking for. The base mount is designed to be screwed to a panel using a standard instrument mounting holes. The iPad snaps in and is held securely.  
P/N: 11-10830 $98.50

**IPAD AVIATION ACCESSORY KITS**

This affordable accessories kit contains products you will need to start using your iPad in the cockpit. Our kit includes a Dual Universal XGPS150 receiver, a Genesis iPad nylon kneeboard and case, and a Lonestar 2 amp 12V/24V charger. We supply a premium charger which charges iPads, iPhones, iPods, etc. even during heavy use.

iPad 1 Kit ..........................................P/N: 11-10452 $223.65
iPad 2 Kit ..........................................P/N: 11-10453 $215.70

**MGF IPAD PRO 11 SPORT KNEEBOARD / MOUNTABLE CASE**

The iPad Kneeboard/ Mountable Case is the perfect aviation kneeboard, mount and everyday case for the iPad. It is designed for the pilot looking to secure their iPad to their leg or for the pilot that prefers to mount their iPad. The black, smooth polycarbonate adds protection and great feel to the iPad. Take your iPad from air to office to home. It is perfect for pilots of all aircraft. This product fits the iPad Pro 11”. Mounts Sold Separately.

Features:
- Cockpit Ready
- Quick Connect
- 360° Rotation
- Sport Mount Compatibale  
P/N: 13-22347 $124.00
THE APPSTRAP FOR IPAD MINI
The original AppStrap architecture now with a full skin instead of clip covers. Compatible with the iPad Mini 1, 2, and 3. TPU Skin Protects iPad mini. Functional & Protective. Instantly share, stow, or reposition. Note: Product received will be strap & skin only. This is not a kneeborder, only a strap & skin that your iPad mini fits in.
P/N 13-12709 ..................$38.95

APPSTRAP TILT PADS
The original tilt-pad will convert any device or case into a kneeborder. Heavy-duty leg strap. Velcro joint. 2 Tilt Pads.
P/N 13-12964 ..................$15.95

APPSTRAP CONVERSION KIT
Turn any tablet into a kneeborder with our DIY kit!
Die cut velcro joint. Compatible with most covers/skins. Portrait or Landscape. Instantly share or stow.
P/N 13-12963 ..................$29.95

APPSTRAP FOR THE IPAD MINI 4
The AS-mini 4 maintains AppStrap's commitment to excellence and pilot-approved design. The form-fitting gel-case adds protection to the damageable device and mates to the elastic leg strap using a unique and secure Velcro mating system. This allows the iPad to be repositioned with ease, stowed during flight, or adjusted to portrait/landscape mode. The unique modular tilt pad allows the device to be positioned at the optimum viewing angle and helps reduce annoying glare. As with all of AppStrap's product offerings, the AS-mini 4 employs most-needed features for routine cockpit use. These tablet kneeboard devices maintain a low-profile design without sacrificing on quality or durability.
P/N 13-18750 ..................$38.95

GENESIS X IPAD ROTATING KNEEBORDER / CASE
Made to fit all generations of iPad and port locations. Main frame is made of tough ABS and the corners made of Polyurethane. The frame is contoured around the rear camera and the front camera is completely unobstructed to allow access for FaceTime TM, photos or video. Size: 10” x 7.8” x 1”.
P/N 13-12391 ..................$34.75

APPSTRAP TILT PADS
The original tilt-pad will convert any device or case into a kneeborder. Heavy-duty leg strap. Velcro joint. 2 Tilt Pads.
P/N 13-12964 ..................$15.95

W-4 IPAD MINI KNEEBORDER FOR USE WITHOUT CASE
Kneeboard is made from highly durable and water resistant nylon. Has a pocket for your E6B, 5 pencils holders, a pouc for your CEPs/earplugs, a removable grommet for your checklist, and a clear plastic strap that goes across your paper to keep them from flying away. One removable flip-up page with two pockets and a clipboard for PPC and notes. The middle of the kneeborder has 4 elastic bands at each corner to hold your mini iPad firmly in place. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.
P/N 13-19808 ..................$37.95

W-4 IPAD MINI KNEEBORDER FOR USE WITH CASE
Kneeboard is made from highly durable and water resistant nylon. Has a pocket for your E6B, 5 pencils holders, a pouch for your CEPs/earplugs, a removable grommet for your checklist, and a clear plastic strap that goes across your paper to keep them from flying away. One removable flip-up page with two pockets and a clipboard for PPC and notes. The middle of the kneeborder has 4 elastic bands at each corner to hold your mini iPad firmly in place. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.
P/N 13-19809 ..................$37.95

AIRGIZMO IPAD 1 / 2 / 3 KNEEBORDER
The AirGizmo iPad Kneeboard allows accessing charts and apps on the iPad or iPad2 while flying easier and safer than ever. Molded plastic and a wide velcro strap allow for a secure, comfortable fit. Fold over tab holds tablet holder in place when not in use. Ability to adjust the angle of the iPad for best viewing angle and the ability to cut down glare. Designed to work with both the iPad and the iPad2. Width: 7.93 in. Height: 9.79 in. Depth: 3.75 in. Weight: 13.1 ounces.
P/N 13-11218 ..................$78.85

CLASSIC TORCHGRIP®
TORCHGRIP® is a patented, made-in-the-USA, universal computer tablet accessory that functions as both a versatile stand and handle providing secure and comfortable handling of your device. Compatible with all iPads and most other tablets. Its durable and stylish design is ergonomically crafted and lightweight. Every time you set down your tablet, TORCHGRIP® is a stand. The handled rotates 360 degrees allowing multiple viewing angles in both portrait and landscape positions. Black/Black ..................................................P/N 13-19321 ..................$59.95
White/White ..................................................P/N 13-19322 ..................$59.95

ASA IPAD PORTFOLIO KNEEBORDER
The iPad Portfolio Kneeboard is the ideal stylish multitasking kneeboard, binder, and versatile cover. It is functional and durable and protects your iPad in flight and on the ground making it your favorite cockpit companion.
Fits the iPad, iPad 2, and New iPad (iPad 3). The inside sleeve holds your iPad securely on the right side with full access to iPad controls and button. The left side has pockets for store your AvComm and accessories. The elastic strap secures the binder-like case to your leg for inflight use and is easily removable for everyday use. The cover folds into a flap to serve as a vertical or horizontal desktop stand providing easy landscape viewing and full keyboard access. Beautiful black leatherette with embossed wings. Height: 9-11/16”, Width (closed) 7-15/16”, Width (open) 15-15/16”.
P/N 13-11337 ..................$49.95
Replacement Strap ........................................P/N 13-19794 ..................$4.35

ASA IPAD KNEEBORDER WITH COVER
The iPad Kneeboard is a versatile case and kneeborder that helps pilots protect and use their iPad in flight and on the ground. The elastic strap secures the case to the pilot’s leg for in-flight use. The unique plastic cover keeps the iPad screen safe while maintaining full viewing and complete touch-screen functionality, and opens easily to insert or remove your device. The easel folds to position the iPad at a convenient “wedged” viewing angle; alternatively, it can lay flat. The pocket on the back offers room for papers and maps. Openings are provided for charger and headphone/earbuds. Made of durable fabric with embossed wings. Fits the iPad, iPad 2, and New iPad (iPad 3).
Features: • Easel holds up or down for optimal viewing and pocket provides access to charts and papers • Dock connector / power port accessible from outside the case • Openings are provided for charger and headphone/earbuds • Fits both iPad, iPad 2, and New iPad (iPad 3) • Pocket on back offers room for papers and maps
P/N 13-11701 ..................$24.95

ASA IPAD AIR ROTATING KNEEBORDER
Designed by pilots for pilots, the ASA iPad Air Rotating Kneeborder is crafted and lightweight. Every time you set down your tablet, TORCHGRIP® is a stand. The handled rotates 360 degrees allowing multiple viewing angles in both portrait and landscape positions. The AirGizmo Parker Kneeboard allows accessing charts and apps on the iPad or iPad2 while flying easier and safer than ever. Molded plastic and a wide velcro strap allow for a secure, comfortable fit. Fold over tab holds tablet holder in place when not in use. Ability to adjust the angle of the iPad for best viewing angle and the ability to cut down glare. Designed to work with both the iPad and the iPad2. Width: 7.93 in. Height: 9.79 in. Depth: 3.75 in. Weight: 13.1 ounces.
P/N 13-11218 ..................$78.85

FLIGHT OUTFITTERS SLIMLINE IPAD KNEEBORDER
The Flight Outfitters Slimline Kneeboards take cockpit organization to a whole new level. Loaded with innovative, pilot-friendly features, these kneeborders provide a sturdy mounting bracket for an iPad. The updated design uses expandable loops to securely hold the corners of the iPad to the bracket. This allows you to keep your iPad secure instead of removing it for every flight. The handle rotates for both portrait and landscape orientation. The unique design is completely reversible for use on either leg, and a heavy-duty elastic leg strap securely holds the kneeborder in place. Two mesh pockets on the side of the kneeborder provide storage for cleaning cloths and other accessories. Includes a drawstring bag for storage.
Large (Fits all iPad, iPad Air, and iPad Pro editions, 11” and smaller). P/N 13-22756 ..................$49.95
Small (Fits all iPad Mini editions)..........................P/N 13-22757 ..................$49.95

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IPAD ACCESSORIES – MGF PRODUCTS

EXECUTIVE IPAD KNEEBOARD KIT
This is the premium iPad kneeboard for the executive aviator on the go. Take it with you on land or in the air. This innovative, 3-in-1 iPad mount can be used as a standalone, or be clipped onto a kneeboard band to be used as a kneeboard. Use the optional RAM adapter and clip onto your RAM mount without changing mounting cases! P/N 13-12765 ...........$59.95

EXECUTIVE IPAD MINI KNEEBOARD KIT
This is the premium iPad Mini kneeboard for the executive aviator on the go. Take it with you on land or in the air. This innovative, 3-in-1 iPad mount can be used as a standalone, or be clipped onto a kneeboard band to be used as a kneeboard. Use the optional RAM adapter and clip onto your RAM mount without changing mounting cases! P/N 13-12766 ...........$47.95

EXECUTIVE IPAD CASE
This is the premium iPad case for the executive aviator on the go. Take it with you on land or in the air. Rotating case - view your iPad in landscape or portrait mode. Landscape folding cover - the cover closes even in landscape mode. P/N 13-12774 ...........$32.95

EXECUTIVE IPAD MINI CASE
This is the premium iPad Mini case for the executive aviator on the go. Take it with you on land or in the air. Rotating case - view your iPad in landscape or portrait mode. Landscape folding cover - the cover closes even in landscape mode. P/N 13-12775 ...........$32.95

EXECUTIVE IPAD KNEEBOARD KIT ACCESSORIES
Includes strap and Ram adapter. P/N 13-12776 ...........$18.95

MGF UNIVERSAL FLEX CLIP KIT
This is the first and only mount that you can secure anywhere you wish with four screws of an AMPs pattern or with semi-permanent VHB adhesive. Since the Flex Clip uses Flex Arms, it is infinitely adjustable so pilots are able to mount their device in the exact position they wish that was thought not possible before. Simply take the metal base and secure it in the desired location with screws or adhesive. Then take the Flex Arm with the clip base and slide it into the base and lock it down by tightening the knob. P/N 13-21196 ...........$312.00

MGF AVIATOR PRO FLIGHT BAG
Designed by pilots to meet the exacting needs of the cockpit environment, The PLC Pro is built from the ground up to be the ultimate solution for storing and protecting the essentials you will need while flying, with a special focus on your most important tool, the iPad. The Flight Bag PLC™ Pro bag is designed by pilots for pilots to be the ultimate flight bag for all aviators. This bag gives you the style, storage, organization, compact size and functionality like never offered before. Silver.................P/N 13-22092 ...........$495.00
Graphite Purple ........P/N 13-22093 ...........$495.00

MGF POWER BANK PORTABLE CHARGER
This MGF 12000mAh Ultra-slim Power Bank is designed with two Smart USB output ports will quickly and effectively help to solve the low power problem for your digital device while traveling out. With high capacity, in such a compact package, it is perfect for traveling, business trips, or just any time you’re away from an outlet. It is convenient to carry anywhere with a compact size. It is your optimal choice.

Specifications:
- Capacity: 12000mAh
- Input: 5V, 2A
- USB Output: 2 x USB
- Smart Output1: 5V 2.4A
- Smart Output2: 5V 2.4A
- Two outputs used simultaneously: 5V/4A

In The Box:
- 1 x MGF 12000mAh Power Bank
- 1 x 2.0A USB Cable

P/N 13-20661 ...........$59.99

MGF ARMORGLAS SCREEN PROTECTORS
When it comes to screen protection, nothing is better than the feel and clarity of pure glass. ArmorGlas™ is like having no screen protector on at all - you won’t even realize it’s there. ArmorGlas™ is made of premium, ultra-thin tempered glass. It is designed to preserve the feel and clarity of the standard screen on your device while adding a substantial level of protection. ArmorGlas™ is made to protect the screen of your device from fingerprints and scratches and is very effective at absorbing impact to minimize the chance of shattering your display.

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NOTE: This is the iPad Kneeboard only. Mounts sold separately.

compatible iPad Aviation Mounts: The iPad Kneeboard Sport™ is designed to mate using a quick-connect Sport™ Adapter with mounting system and an iPad Sport™ Mount. Mounting options include a yoke mounts, panel/cover shield, or suction cup mounting system offering flexibility in its use in different aircraft and are sold separately. For more information, go to the Mounts category.

Mini Sport .......................P/N 13-16366 ........ $124.00

iPad 2/3 Kneeboard Sport
The iPad Kneeboard Mountable Case is the perfect aviation kneeboard, mountable everyday case for the iPad. It is designed for the pilot looking to secure their iPad on either leg, who needs the minimal case, but still wants a very secure fit, or for the pilot that wants to mount their iPad. The black, smooth polycarbonate adds protection and great feel to the iPad. Take your iPad from air to office to home. It is perfect for pilots of all aircraft. This product fits the iPad 2, 3, and 4.

Features: • Cockpit Ready: Smartphone secured, viewable, and operable with one hand during critical phases of flight • iPad Kneeboard: Secure your iPad on either leg for use with either hand • Quick Mount Ring: Convert your case into a desktop stand for use on desk, table or lap • Sport Mount Compatible: VFR/IFR clipboard adheres magnetically for secure note taking • 360 Rotation: Rotate iPad between portrait and landscape mode while still in the case • Multi Use: Take your iPad from air to office to home, eliminating the inconvenience and cost of using more than one case • Fits any 7-8" touchscreen iPad/Tablet - Specifically designed for iPad Mini 1/2/3/4, Samsung Galaxy Tab, Nexus, Asus, Etc. • Adjusts to fit changes of future iPad/Tablets within its size range

Specifications: • Folio Case Material - Genuine Leather • Clipboard Material - Aluminum • Strap Material - Elastic/Velcro

P/N 13-19537 ............. $174.00

MFIPAD MINI UNIVERSAL 7-8 INCH TABLET KNEEBOARD FOLIO C
The iPad Mini Universal Kneeboard Folio™ C (including clipboard) is the perfect high quality leather, rotating aviation kneeboard, lapboard and everyday case for your iPad Mini 1/2/3/4, and all other 7-8” tablets. Now you can bring any 7-8” iPad/Tablet with you into the cockpit of any airplane, train, car or truck where you can be held secure on your knee and lap. High quality, rich leather wraps the outside while soft and protective micro-fiber material lines the inside. The iPad/Tablet is held by four adjustable clips that are attached to a rotating cradle. All of the ports and controls remain accessible so the iPad/Tablet can be charged, synced and controlled when it is in its case.

Specifications: • Folio Case Material - Genuine Leather • Clipboard Material - Aluminum • Strap Material - Elastic/Velcro

P/N 13-19535 ............. $154.00

MFIPAD PRO 12.9 / 11-13 INCH TABLET KNEEBOARD FOLIO C
The iPad Pro Universal Kneeboard Folio™ C (including clipboard) is the perfect high quality leather, rotating aviation kneeboard, lapboard and everyday case for your iPad Pro, and all other 11-13” tablets. Now you can bring any 11-13” iPad/Tablet with you into the cockpit of any airplane, train, car or truck where it can be held secure on your knee and lap. High quality, rich leather wraps the outside while soft and protective micro-fiber material lines the inside. The iPad/Tablet is held by four adjustable clips that are attached to a rotating cradle. All of the ports and controls remain accessible so the iPad/Tablet can be charged, synced and controlled when it is in its case.

Features: • Tablet secured, view-able, and operable with one hand during critical phases of flight as required by the FAA • Secure your iPad/Tablet on either leg for use with either hand • Rotate iPad/Tablet between landscape and portrait positions while in flight • Convert your case into a desktop stand for use on desk, table or lap • VFR/IFR clipboard adheres magnetically for secure note taking. Detach clipboard from inside of case before closing. • Take your iPad/Tablet from air to office to home, eliminating the inconvenience and cost of using more than one case • Fits any 7-8" touchscreen iPad/Tablet - Specifically designed for iPad Mini 1/2/3/4, Samsung Galaxy Tab, Nexus, Asus, Etc. • Adjusts to fit changes of future iPad/Tablets within its size range

Specifications: • Folio Case Material - Genuine Leather • Clipboard Material - Aluminum • Strap Material - Elastic/Velcro

P/N 13-19559 ............. $145.00

MFIPAD MINI 4 KNEEBOARD SPORT
The iPad Kneeboard Sport™ is the perfect aviation kneeboard, mount and everyday case for the iPad Mini 4. It is designed for the pilot looking to secure their iPad on either leg, who needs the minimal case, but still wants a very secure fit, for the pilot that wants to mount their iPad. In black, smooth polycarbonate, the Sport™ adds protection and great feel to the iPad. Take your iPad from air to office to home. It is perfect for pilots of all aircraft. This product fits the iPad Mini 4.

Features: • Cockpit Ready: Smartphone secured, viewable, and operable with one hand during critical phases of flight • iPad Kneeboard: Secure your iPad on either leg for use with either hand • Quick Mount Ring: Convert your case into a desktop stand for use on desk, table or lap • Sport Mount Compatible: VFR/IFR clipboard adheres magnetically for secure note taking • 360 Rotation: Rotate iPad between portrait and landscape mode while still in the case • Multi Use: Take your iPad from air to office to home, eliminating the inconvenience and cost of using more than one case • Fits any 7-8” touchscreen iPad/Tablet - Specifically designed for iPad Mini 1/2/3/4, Samsung Galaxy Tab, Nexus, Asus, Etc. • Adjusts to fit changes of future iPad/Tablets within its size range

Specifications: • Folio Case Material - Genuine Leather • Clipboard Material - Aluminum • Strap Material - Elastic/Velcro

P/N 13-19537 ............. $174.00

MFIPAD PRO 12.9 / 11-13 INCH TABLET KNEEBOARD FOLIO C
The iPad Pro Universal Kneeboard Folio™ C (including clipboard) is the perfect high quality leather, rotating aviation kneeboard, lapboard and everyday case for your iPad Pro, and all other 11-13” tablets. Now you can bring any 11-13” iPad/Tablet with you into the cockpit of any airplane, train, car or truck where it can be held secure on your knee and lap. High quality, rich leather wraps the outside while soft and protective micro-fiber material lines the inside. The iPad/Tablet is held by four adjustable clips that are attached to a rotating cradle. All of the ports and controls remain accessible so the iPad/Tablet can be charged, synced and controlled when it is in its case.

Features: • Tablet secured, view-able, and operable with one hand during critical phases of flight as required by the FAA • Secure your iPad/Tablet on either leg for use with either hand • Rotate iPad/Tablet between landscape and portrait positions while in flight • Convert your case into a desktop stand for use on desk, table or lap • VFR/IFR clipboard adheres magnetically for secure note taking. Detach clipboard from inside of case before closing. • Take your iPad/Tablet from air to office to home, eliminating the inconvenience and cost of using more than one case • Fits any 7-8" touchscreen iPad/Tablet - Specifically designed for iPad Mini 1/2/3/4, Samsung Galaxy Tab, Nexus, Asus, Etc. • Adjusts to fit changes of future iPad/Tablets within its size range

Specifications: • Folio Case Material - Genuine Leather • Clipboard Material - Aluminum • Strap Material - Elastic/Velcro

P/N 13-19559 ............. $145.00

Katech Mini Sport
A Strap made to go with Katech keyboards for additional security while in-flight. This strap is made out of a heavy duty, wide elastic and a generous amount of Velcro to provide long-lasting use and comfortable wear. ...............P/N 13-19564 ........ $9.00

Katech Foldkey - Bluetooth Mini Keyboard
Katech proudly presents a cross platform Bluetooth Ultra-Slim Keyboard with foldable Ultra-Slim Design. Users can enjoy creating and communicating across multiple platforms on bluetooth supported devices wirelessly. Travel anywhere portably without the hassle of tangling wires. Allows you to get work done from anywhere. Only folding keyboard that has all keys including numbers. Performs any task necessary.

P/N 13-19561 ............. $49.99

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Prices Subject to Change Without Notice
MGF PRODUCTS

MGF FLIGHT BAG PLC LITE
MGF Flight Bag PLC Lite - Created to be the perfect bag for pilots looking for a light iPad ready flight bag. The PLC Lite is a high quality flight bag built to the same high standards as all other MGF products. Designed by pilots to meet the exacting needs of the cockpit environment. The PLC Lite is built from the ground up to be the ultimate solution for storing and protecting the essentials you will need while flying, with a special focus on your most important tool, the iPad. It has a specially designed, protective pouch to hold an iPad, laptop computer or many other electronic flight bag devices.

P/N 13.19545 ........ $114.00

MGF IPAD FLIGHT BAG PLC SPORT
A smaller version of the Flight Bag PLC Pro is finally here! The Flight Bag PLC Sport. Enjoy the ability to carry one headset, an iPad/EFB, a hand held radio, and other gear. Same industry leading quality, in a compact size. Headset Storage: Storage for 1 headset or overnight gear. iPad Storage Pocket: Padded pocket designed to protect the iPad or other tablets. Protects Laptop: Padded pocket can also store and protect up to a 13" laptop. Radio Storage: Interior pockets made out of mesh to easily locate and access your gear. Water Resistance: Exterior of the bag is made of sail cloth making it water resistant. ...........P/N 13-18712 ........ $179.00

MGF FLIGHT BAG PLC PRO TRAVELER
Perfect for an overnight trip or a week out of town the PLC Traveler is tough, lightweight and smart. Engineered from durable sail cloth, this bag comes equipped with multiple pockets for storage, a telescoping handle and easy-rolling wheels that make it a cinch to maneuver. Built from the ground up to be the premium solution to store and protect all your gear while flying and traveling. Designed by pilots for pilots to be the ultimate flight bag for all aviators. The bag gives you the style, storage, organization, compact size and functionality like never offered before. ........P/N 13-22025 .................. $329.00

MGF FLIGHT PLC PRO 2020 FLIGHT BAG
The redesigned PLC™ PRO 2020 is the latest addition to MYGOFLIGHT’s amazing line of flight bags. Made from rugged ballistic nylon, this bag is engineered to fit the lifestyles of aviators and travelers that bring both style and durability. This flight bag is the ultimate solution for storing and protecting the essentials needed for any destination. Mesh pockets allow you to see your items inside, while a self-standing shelf allows for perfect positioning for easy access. Re-engineered detachable backpack & shoulder straps bring versatility & comfort to a whole new level. The Flight Bag PLC™ Pro Flight Bag is designed by pilots for pilots to be the ultimate travel companion. ........P/N 13-22439 ........... $299.00

MGF HEADSET BAG
Micro-fiber lining cleans and protects the screen while the durable diamond stich fabric on the outside prevents ripping and tearing. The Headset Bag is made out of durable mesh with a soft, padded lining on the inside, perfect for holding anything you don’t want scratched: sunglasses, phones, iPads, and eReaders. The drawstring closure makes holding all of your small items secure and easy to find. ........P/N 13-12407 .................. $14.99

MGF BACKPACK STRAP
MGF Backpack Strap is intended for use with the Flight Bag PLC Pro, PLC Sport, and PLC Lite. Maximum comfort with much less pain on the shoulders which helps minimize fatigue. Helps items feel much lighter than actual weight. Padding and grip prevent straps from sliding off of shoulders. Clips onto bag with three easy hooks. Rotating hook heads make sure you never get tangled straps ever again! Fully adjustable for all sizes. ................P/N 13-19546 ........... $30.00

MGF IPAD AIR 1-2 / PRO 9.7 SPORT CASE (KNEEBOARD / MOUNTABLE)
The iPad Kneeboard Sport™ is the perfect aviation kneeboard, mount and everyday case for the iPad Air or Pro 9.7. It is designed for the pilot looking to secure their iPad on either leg, who needs the minimal case, but still wants a very secure fit, or for the pilot that wants to mount their iPad. In black, smooth polycarbonate, the Sport™ adds protection and great feel to the iPad. The iPad Kneeboard Sport™ was designed for pilots by pilots. It is designed to work in aircraft where space is tight or where there is a cyclic, or control stick being used between the legs. It is perfect for pilots of helicopters, sport aircraft, and when there is light yoke clearance or when mounting is desired. NOTE: This is the iPad Kneeboard only. Mounts sold separately. .............P/N 13-19539 ........... $124.00

MGF PEN HOLDER
Add this self-stick pen holder to your MGF clipboard or any other clipboard to provide a convenient and secure place to store your pen. * Not designed to work the MGF Mini Clipboard. Securely hold a variety of pen and pencil sizes with this unique little holder. Attaches with a strong 3M VHB tape.

P/N 13-19562 ................... $7.00

MGF NIGHT VISION CLIP
The Night Vision Clip Light is designed to put green, eye protecting light exactly where you need it when you need it. The batteries are replaceable.

P/N 13-12404 ................ $19.99

MGF DUAL MICRO CHARGER
Handles up to 35 Volts! DualMicro is a 12 to 35 Volt airplane/auto charger and an extra charging cable in one convenient bundle. It has two USB ports that can both be used at the same time. NOTE: For 12-35 volt DC systems. ............. P/N 13-19538 ................ $39.99

MGF WATER BOTTLE
The MGF Bottle – a double walled, stainless steel bottle that will keep drinks cold for 24 hours and hot for 12 without any condensation on the outside ever. It is beautiful, fits in the side pocket of the Flight Bag PLC Pro or Sport, will never sweat, helps rid the world of plastic bottles and is beautiful to hold and to see. .....................P/N 13-18887 ............ $35.00

MGF SPORT™ MOUNT GPS ADAPTER FOR GARMIN PORTABLES
Sport - GPS Adapter is the perfect solution for mounting all Garmin Portable Avionics, as well as any other device that uses the AMPs hole pattern. The Sport - Amps Adapter securely connects to all Garmin portables including the aera® 660, aera® 795, aera® 510 GPSMAP® 696, GPSMAP® 695, and more. Once the GPS Adapter is connected to the GPS you can quickly and securely mount the portable avionics using any MGF Sport Mount (Sold Separately). .....................P/N 13-19526 ............ $49.00

MGF SPORT™ CAMERA ADAPTER
The Sport - Puck Adapter is designed to work with almost any digital camera or any other device that has a 1/4”-20 screw on it. As a mountable, it connects and easily rotates when partied with MGF Sport Mounts. No matter how you use it, the Sport - Puck Adapter meets the demands of pilots and other individuals operating in extreme motion. Compatible with most cameras and devices that have a 1/4”-20 hole on them. .............P/N 13-19527 ........... $39.00

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Prices Subject to Change Without Notice
MGF SPORT™ MOUNT FLEX CLIP
• Fits Monorails sized, 5/16" - 1/2". The infinitely articulating and adjustable arm attaches to the Universal Cradle to hold any iPad or Tablet, or to the iPad Sport Case for a specific iPad fit. This feature makes this mount future proof. Once attached, the iPad can be viewed in either portrait or landscape modes simply by rotating the device, nothing has to be loosened or tightened to make this happen. Note: You must have a Device Holder to use this mount. P/N 13-19518 $164.00

MGF SPORT™ MOUNT FLEX SUCTION PRO
This one mount can operate as a compact suction cup, allowing a close position to the glass of 3.25 inches. It can also operate as a standard suction cup mount extending to 10.5 inches. The Mount utilizes one vacuum suction cup with a built-in finger pump that informs you if the mount is losing suction. Give it a couple pumps and it is quickly back to full strength. Note: You must have a device holder to use this mount. P/N 13-19509 $194.00

MGF SPORT™ MOUNT COMPACT SUCTION CUP
The Sport Mount - Compact Suction Cup is the most versatile mounting solution for pilots that would like to install an device on almost any flat, smooth surface. The high strength suction cup twist and locks to provide a secure hold to the windshield or metal panel. The mount is portable and can easily fit in your flight bag or can be positioned and left on-board. Perfect for owners and renters alike. (Note: You must have a device holder to use this mount). P/N 13-19510 $144.00

MGF SPORT™ MOUNT FLEX DOUBLE SUCTION
This one mount can operate as a compact suction cup, allowing a close position to the glass of 3.25 inches. It can also operate as a standard suction cup mount extending to 10.5 inches. Portable and can easily fit in your flight bag or can be positioned and left on-board. Perfect for owners and renters alike. (Note: You must have a Sport Case/Cradle to use this mount). P/N 13-19511 $194.00

MGF SPORT™ MOUNT FLEX YOKE COLLAR FOR BEECH WIDE YOKES
Attaches to control columns with a diameter between 1 5/8" - 1 3/4". This mount attaches to the thick yoke shaft on Beechcraft aircraft that have two yoke tubes coming out of the panel. Note: You must have a Device Holder to use this mount. P/N 13-19513 $164.00

MGF SPORT™ MOUNT FLEX GLARE SHIELD
The Sport Mount - Flex Glare Shield is for pilots who want to mount their iPad or other device off of the glare shield of their airplane or similar shelf-like surface. Can be configured to hang down, or push the iPad/Device up above the glare shield. This mount comes with a Sport Cradle and a Generation 3 Sport Adapter. This is a perfect mounting solution in cockpits where space is tight. Note: You must have a Device Holder to use this mount. P/N 13-19514 $144.00

MGF SPORT™ MOUNT FLEX PANEL
Sport Mount - Flex Panel is the perfect mounting solution for pilots that would like to install a iPad/Tablet directly into their panel. Same hole pattern as existing instrument gear. This is a perfect mounting solution in cockpits where space is tight. Note: You must have a Device Holder to use this mount. P/N 13-19515 $164.00

MGF SPORT™ MOUNT FLEX YOKE BEECH CENTER COLLAR
Attaches to the retaining clamp (Silver Metal Piece) on the center yolk arm. The way it attaches is by removing the screws that hold the retaining clamp on, putting our mount on top of the retaining clamp, and then securing it with the same screws. Note: You must have a Device Holder to use this mount... P/N 13-19512 $164.00

MGF SPORT™ PHONE CRADLE
MGF SPORT™ GOPRO® / GARMIN VIRB ADAPTER
Mounting your GoPro® with the Sport - GoPro® Adapter and MGF Flex Arms allows you the ability to position your GoPro® camera anywhere you would like. MGF Flex Arms are infinitely adjustable so you can mount your GoPro® camera anywhere and everywhere. Something that you are not able to accomplish with any other mounting system. Sport - GoPro® Adapter works with all GoPro® models and all Garmin Virb models. P/N 13-19525 $49.00

MGF SPORT™ MOUNT - FLEX YOKE MOUNT FOR IPAD / ANDROID
The Sport Mount - Flex Yoke is for pilots who want to mount their iPad Sport, iPad Kneeboard Sport™ or Nexus 7 Sport case on a yoke, rail, or support strut. This mount comes with a Sport - Universal Cradle - Generation 2. P/N 13-16369 $144.00

MGF SPORT™ MOUNT FLEX SUCTION CUP MOUNT FOR IPAD
The Sport Mount - Flex Suction is for pilots who want to mount their iPad Sport, iPad Kneeboard Sport™ or Nexus 7 Sport case off a glass windshield, side window or other smooth surface. This one mount can operate as a compact suction cup, allowing a close position to the glass of 3.25 inches. It can also operate as a standard suction cup mount extending to 10.5 inches. As a mountable, it connects and easily rotates when paired with MGF Sport Mounts. Perfect for owners and renters alike. P/N 13-16370 $144.00

MGF UNIVERSAL CRADLE SPORT MOUNT
The Sport - Universal Cradle is designed to work with almost any tablet in virtually any case, or no case at all. As a mountable, it connects and easily rotates when paired with MGF Sport Mounts. The arms of the cradle are adjustable via quick release knobs making it easy to insert and remove your tablet. No matter how you use it, the Sport Cradle meets the demands of pilots operating in extreme motion. P/N 13-16447 $144.00

MGF FLEX CLIP EXTRA BASE
Flex Clip Mount by MGF. This is the first and only mount that you can secure anywhere you wish with four screws of an AMPs pattern or with semi-permanent VHB adhesive. Since the Flex Clip uses Flex Arms, it is infinitely adjustable so pilots are able to mount their device in the exact position they wish that was thought not possible before. P/N 13-19528 $29.00

MGF SPORT™ MOUNT AMPs SWIVEL
The Sport Mount - Amps Swivel is for pilots who want to mount any size iPad or Tablet in any size or type of case to the Amps bracket found in many jets. This mount comes with a Sport™ Adapter mounting system and an adjustable tilt plate which adds flexibility to the iPad/Tablet positioning. The adapter can tilt up to 15 degrees. The iPad/Tablet can rotate between landscape and portrait mode while attached to the mount. All together, this system gives you the ultimate freedom while keeping spaced used to a minimum. NOTE: You must have a Device Holder to use this mount. P/N 13-19534 $124.00

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MGF PRODUCTS
GUARDIAN IPAD MOUNTS – LIGHTNING CABLES

GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPHONE 6 / 7+

The iFDR Panel Mount series is a flush mounting system to easily dock and seamlessly integrate your Apple iPhone 6 or iPhone 7 into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the iFDR mount allows your iPhone to be docked in seconds, fully connected to power and audio with built-in-cable ports. Removal is just as easy -- just slide, push, and remove!...P/N 13-19817 .........$99.00

GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPHONE 6+ / 7+

The iFDR Panel Mount series is a flush mounting system to easily dock and seamlessly integrate your Apple iPhone 6+ or iPhone 7+ into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the iFDR mount allows your iPhone to be docked in seconds, fully connected to power and audio with built-in-cable ports. Removal is just as easy -- just slide, push, and remove!...P/N 13-19819 .........$149.75

GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPAD MINI

The iFDR Panel Mount for Apple iPad Mini is a flush mounting system to easily dock and seamlessly integrate your existing iPad Mini into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the iFDR mount allows your iPad to be docked in seconds, fully connected to power and audio with built-in-cable ports. Removal is just as easy -- just slide, push, and remove!...P/N 13-19806 .........$159.95

GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPAD AIR 9.7 INCHES

The iFDR Panel Mount for Apple iPad Air (1 & 2) and iPad Pro 9.7-in is a flush mounting system to easily dock and seamlessly integrate your existing iPad into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the iFDR mount allows your iPad to be docked in seconds, fully connected to power and audio with built-in-cable ports. Removal is just as easy -- just slide, push, and remove!...P/N 13-19812 .........$199.75

GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPAD PRO 10.5 INCHES

The iFDR Panel Mount for Apple iPad Pro is a new flush mounting system to easily dock and seamlessly integrate your existing iPad Pro into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the iFDR mount allows your iPad to be docked in seconds, fully connected to power and audio with built-in-cable ports. Removal is just as easy -- just slide, push, and remove!...P/N 13-19822 .........$279.95

GUARDIAN LIGHTING CABLES

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X-NAUT ACTIVE COOLING MOUNT FOR IPAD AIR

The Active Cooling Mount was created with the safety of pilots and iPad™ users in mind. Works with iPad Air™ Versions 1 | 2 | Pro 9.7. Switch between using Micro USB or power by battery (8AA Air Version). Battery test button shows status of batteries. Green indicates high battery life, yellow indicates low battery life and red indicates battery replacement. Spring loaded latch makes loading your iPad easy and secure. Low noise fans (26 DBA). Weight: 9 oz (no iPad™). Dimensions: 9.17in x 7in x 1.5in. ...P/N 13-19502 .........$199.95

X-NAUT ACTIVE COOLING MOUNT FOR IPAD PRO

The Active Cooling Mount was created with the safety of pilots and iPad™ users in mind. Works with iPad Pro 10.5". Switch between using Micro USB or power by battery (4AA Mini Version). Battery test button shows status of batteries. Green indicates high battery life, yellow indicates low battery life and red indicates battery replacement. Spring loaded latch makes loading your iPad easy and secure. Low noise fans (26 DBA). Weight: 7 oz (no iPad™). Dimensions: 9.17in x 7in x 1.5in. ...P/N 13-19503 .........$179.95

X-NAUT ACTIVE COOLING MOUNT FOR IPAD MINI

The Active Cooling Mount was created with the safety of pilots and iPad™ users in mind. Works with iPad mini Versions 1 | 2 | 3 | 4. Switch between using Micro USB or power by battery (4AA Mini Version). Battery test button shows status of batteries. Green indicates high battery life, yellow indicates low battery life and red indicates battery replacement. Spring loaded latch makes loading your iPad easy and secure. Low noise fans (26 DBA). Weight: 7 oz (no iPad™). Dimensions: 8.3in x 5.6in x 1.7in. ...P/N 13-19502 .........$199.95

Prices Subject to Change Without Notice

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X-NAUT iPAD ACCESSORIES

X-NAUT KNEEBOARD KIT
Kneeboard rotates 360° and mounts to your leg with a universally adjustable strap. One size fits all elastic Velcro strap. Mounting hardware included. Work with both Mini and Air versions. *Active Cooling Mount not included...P/N 13-19504 ..........$38.95

X-NAUT CARRYING CASES
Carrying Case comes in iPad™ Mini & iPad™ Air sizes. Adjustable and removable shoulder strap. Large zippered pocket houses the Active Cooling Mount. A small outer Velcro pocket stores accessories. X-naut embroidered logo. *Battery pouch and Active Cooling Mount not included...Air...P/N 13-19505 ..........$37.95

X-NAUT 25MM BALL AND SOCKET EXTENSION KIT
The X-naut 25MM Extension Kit allows you to connect and extend mounts and pedestals with a 25mm (1 inch) diameter. Infinitely adjustable. Specifications: Compatible with the Flexgrib Series P/N 13-22316 ..........$39.99

X-NAUT CLAW YOKE MOUNT
Mount your X-naut Active Cooling Case to a yoke shaft or exposed tube. The Claw base fits yoke shafts measuring 0.625” to 1.5” in diameter. Infinitely adjustable. P/N 13-22317 ..........$56.99

X-NAUT SINGLE SUCTION MOUNT
The X-naut single suction cup base is designed to have a stronghold on glass and non-porous plastic surfaces. Infinite adjustment to obtain optimum viewing angles. P/N 13-22318 ..........$39.99

X-NAUT DUAL SUCTION MOUNT
The X-naut dual suction cup base is designed to have an extra strong hold on glass and non-porous plastic surfaces. Infinitely adjustable to obtain the optimum viewing angles. P/N 13-22319 ..........$56.99

X-NAUT DRONE BRACKET CONTROLLER
• Compatible with the DJI Mobile Device Holder for Phantom and Inspire Remote Controller
• Rugged Metal Bracket- Powder Coated
• Metal Bracket Can be Used as a Handheld Fixture
Note: iPad Cooling Case not included. P/N 13-22325 ..........$39.99

X-NAUT FLEXGRIP ROTATING HANDSTRAP WITH KICKSTAND
Take your iPad and iPad Cooling Case everywhere with the X-Naut Rotating Handstrap with Kickstand. Engineering specifically for the X-Naut, this gives you the flexibility to work, travel, and play in extreme conditions. Supports your iPad in both landscape and portrait mode.

Note: *iPad Cooling Case not included. P/N 13-22315 ..........$59.99

X-NAUT HOODMAN COCKPIT TABLET VISOR iPAD AIR
Eliminate glare and see your screen better with The Hoodman Cockpit Visor! The Hoodman Cockpit Visor universally mounts in portrait or landscape orientation, with a size for the iPad mini and another for normally-sized iPads. Attaching via adhesive Velcro strips, the visors are easily added and removed from your X-naut Pilot Series iPad Cooling Case. Simply attach the Velcro strips to the perimeter of your case and you’re ready for flight!

Standard (Air, Pro, etc.)...P/N 13-22320 ..........$34.99
Mini...P/N 13-22321 ..........$34.99

X-NAUT HOOD FOR iPAD MINI / AIR / PRO
Monitor Hood - iPad Mini and Air/Pro 9.7” from HOODMAN
The X-naut & HoodMan aviator hood for drone pilots mounts to your iPad Mini and Air/Pro 9.7” for improved outdoor viewing. The X-naut & HoodMan aviator hood has a unique pierceable feature to aid in touchscreen access. Two adjustable mounting straps make hood mounting quick and easy. A horizontal safety strap prevents iPad from falling forward out of its mount. Hood mounts on the front of iPad Mini and Air/Pro 9.7” Mini...P/N 13-22322 ..........$44.99
9.7”...P/N 13-22324 ..........$49.99
10.5”...P/N 13-22323 ..........$49.99

G1000 TRAINING COVER
G1000 partial panel simulators are used for training to fail certain instruments. The product is held in not using a static cling but a backing of micro suction cups, allowing you to use this for years to come, including a storage case when not in use.

P/N 13-22141 ..........$25.70

STEAM GAUGE COVER
Steam gauge cover is a high-quality inoperable cover using a micro suction cup pad on the back. Great for flight training or covering an inoperable gauge.
P/N 13-22142 ..........$7.75
FLYBOYS GEAR FOR PILOTS

FLY BOYS PUBS BAG
Top opening flap gives access to the main pockets. Additional smaller external pockets are located in the front, rear as well. Handy for smaller items or for sliding enroute charts and maps for quick access. Top, front and back are secured with sturdy Velcro™. Pocket on one side for a water bottle or sunglass case. Slots on the opposite side for 2 pens or pencils. The most popular choice of most fighter and trainer pilots no matter what the airframe. Also, an excellent option for civilians looking for a no frills - priced right bag. Measures 8 1/2” x 11” x 1” empty. Fully loaded it will expand out to 8 1/2” wide!
Black FB1020 P/N 13-05566 $27.95

FLY BOYS HELMET BAG
420 Denier Cordura Nylon with 1/2” cloth polyfill to cushion your helmet. Heavy duty nylon zipper - resists snags. Two interior pockets WITH VELCRO CLOSURE that fit your DTC, VTR tapes, sunglasses or water bottle. This super tight knit nylon shell is extremely water resistant and provides superior protection for YOUR expensive equipment. Oversized from standard issue versions, it is superior for helmets with NVG or HMS mounts! Two NEW pockets for smaller items. Adjustable shoulder strap fitted with a gripping contouring rubber shoulder pad.
Inside Dimensions (FLAT): 19 1/2” Wide 20” Tall.
Blue P/N 13-05571 $39.95
Black P/N 13-05572 $39.95
Green P/N 13-05573 $39.95

FLY BOYS IFR/VFR KNEEBOARD
Features seven eyelets for secureing checklists, plastic checklist pages or your in-flight guide - every base has different spacing. Includes the new flexible plastic clipboard (FB1060). Eyelets also correspond to JEPPESEN approach plates and chart protectors!
Folded: 6.5” X 1.5” X 9.5”
Unfolded: 10” X 8.5” X 1
Writing Surface Area: 8” X 5”
Blue P/N 13-05568 $39.95
Black P/N 13-05569 $39.95
Green P/N 13-05570 $39.95

FLYBOYS REMOVE BEFORE FLIGHT KEY CHAIN
This nylon strap streamer with the REMOVE BEFORE FLIGHT rubber patch is an instant reminder of the real warning flags that hang off of airplanes on the flight line. They’re supposed to be visible and easy to find during the walk-around inspection. Well, now, you don’t have to “walk around” your house or fish through your gym bag trying to find it! P/N 13-05626 $4.99

FLYBOYS MAPSTRAP
THIGH STRAP
adjustable to fit just about anyone and features a see-through strap with a healthy portion of hook-and-loop to keep paperwork secure. The leading and trailing edges of the lower strap feature non-slip PVC material to help keep the strap secure on your leg. P/N 13-14943 $14.95

FLYBOYS PILOT LOGBOOK
If you are serious about keeping track of your flight time, and operate Army or USAF rotary aircraft - this is the book you need with no question. Record your own flying history of missions, upgrades, checkrides and awards right in this beautiful and durable logbook. This book will hold at least 10 years worth of flight history. Dimensions: 9” tall x 7 7/8” wide x 1” thick.
AirForce Pilots Logbook P/N 13-05625 $29.95
Army Pilots logbook P/N 13-06410 $29.95

FLYBOYS CHECKLIST RINGS
Durable. Unbreakable. Multi-Purpose. Safe. Opaque nylon ring to hold your checklists and inflight guides. Or use them for outdoor use where metal rings would rust or wear out. Patented ball-lock design to prevent FOD out on the flight line. The nylon ring is very low resistance as well. Once they are closed, they stay closed. When opened, they are a 1.5” diameter ring. Opened, they stretch to 5”. For most applications 4 rings is plenty for keeping your checklists or inflight guides secure. $0.79

FLYBOYS CHECKLIST PAGES
Heavy-duty plastic FlightCrew checklist pages. Sturdy construction extends the life of these pages. Easy to use at made at a thickness that helps prevent the pages from becoming brittle or tearing in cold environments. Pages are top loading and are great for protecting your local approaches or condensed aircraft checklist. No covers included.
Sheet Size: 3” X 5” P/N 13-05627 $0.70
Bulk back (25 Pk.) w/ Covers P/N 13-05629 $14.95
Duty Covers For Checklist Pages Only P/N 13-22013 $8.95

OVERSIZED CHECKLIST PAGES
These are great if you are ready to start putting originals in the pages instead of shrunken copes! As you can see, a full size Jeppesen chart slides right in! Now your mission data cards fit, your target photos can get more detail in them, and your attack cards slide right in without making a trip to the copier to shrink them. These are the same construction as the regular, just bigger. Great in extreme temperatures and long lasting. Spacing on the holes matches up with the FlyBoys KneeBoard with Eyelets and Jeppesen charts. Size is 5 1/2” X 8 1/2” - really makes a difference.
Sheet Size: 8-1/2” X 5-1/2” P/N 13-05628 $0.95

EXTRA TALL PAGES FOR BIG CHECKLIST
Heavy duty plastic FlightCrew checklist pages. Sturdy construction leads to a long life. Easy to use but heavy enough to not get brittle or tear in extremely cold environments. Pages are top loading and are excellent for protecting your local approaches or condensed aircraft checklist. USABLE interior dimensions: 5”x11”, overall width including checklist ring holes 5 7/8”
Sheet Size: 5” X 11” P/N 13-05630 $6.95

FLYBOYS HARD PLASTIC COVE SET FOR EXTRA PAGES
The new Cover Set for the FB2203 pages are great. They are perfect for protection of the pages as well as providing structure for these tall pages. Without these covers, they tend to sag due to their height. Buy as many pages as you need, as many cover sets as you need. Sheet Size: 5” X 11” P/N 13-05632 $6.95

OVER SIZED FLIP CHART PAGES
Over sized top loading pages with three ring holes in the top for those checklists and situations that flow better than the normal “book format.” Dimensions: 9.25” x 6”
Sheet Size: 8” X 5” P/N 13-05633 $0.79

FLYBOYS REMOVED CHECKLIST RINGS
Over sized top loading pages with three ring holes in the top for those checklists and situations that flow better than the normal “book format.” Dimensions: 9.25” x 6”
Sheet Size: 8” X 5” P/N 13-05633 $0.79

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IFR TRAINING HOODS

BLOCKALLS TRAINING GLASSES

Designed by pilots for pilots. Blockalls™ resolve problems with existing view limiting devices. Weighing in at just under 1oz, it’s easy to forget you are wearing them. Engineered to easily penetrate the seal of your headset eliminating the hassle of having to remove it first and can be worn for extended periods of time without discomfort, thanks to the soft rubber nose piece and streamlined temple tips. Tailored off center viewing also keeps more of your time inside the flight deck rather than outside. Recommended by AOPA/ Flight Training.

OLD FOGGIES™ IFR TRAINING GLASSES

IFR Glasses’ Old Foggies™ brand view limiting device was developed in order to balance the training value of a view limiting device without further limiting the pilot from being able to read his/her charts. Old Foggies™ blend of precision fogging and custom powered corrective lenses allows for the precise amount of the instrument panel viewing without any view of the horizon. Old Foggies™ are available in customizable powers with no need for a prescription. Available in Clear and Light Mirrored Tint (a reflective coating that eliminates glare without further limiting visibility). Available Powers: 1.5, 2.0, 2.5

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THE HOODY

Provides a complete view of even the most sophisticated instrument panel. Weighs less than 2 oz. Stores easily in a flight bag with the flaps folded in. The Hood™ fits most caps. No hooks, no clips, just slips on and off. Easily molds to the bill of your favorite cap .............P/N 13-12753 ..........$19.95

OVERCASTERS

Overcasters is a unique IFR training tool which clips to glasses (sunglasses or RX) in seconds. Flip-up in one easy motion for easy transition. Feather light with no straps, helmets, or hoods. Accepted by IFR examiners for checkrides. 

CLOUD-EEZE™ IFR TRAINING GLASSES

Developed in order to balance the training value of a view limiting device without further limiting the pilot from being able to read his/her charts. Old Foggies™ blend of precision fogging and custom powered corrective lenses allows for the precise amount of the instrument panel viewing without any view of the horizon. Old Foggies™ are available in customizable powers with no need for a prescription. Available in Clear and Light Mirrored Tint (a reflective coating that eliminates glare without further limiting visibility). Available Powers: 1.5, 2.0, 2.5

Cloud-eeze Clear Lens P/N 13-05015 ..........$17.50
Cloud-eeze Tint Lens P/N 13-05016 ..........$18.95

BEST HOOD: IFR TRAINING HOOD

The ‘Best Hood’ is a sturdy paper hood which is amazingly simple yet very effective. Its inexpensive, it folds flat for the flight bag and is an excellent vision limiting device for instrument pilot training. Easy to use, the hood has a comfortable elastic headband and it fits easily over glasses.

P/N 17-00020 ..........$15.85

JIFFYHOOD

A lightweight plastic hood that does the job inexpensively. Jiffyhood stows rolled up in a flight case, or even in your pocket. Has an adjustable elastic headband for comfortable fit.

P/N 13-03457 ..........$10.95

FRANCIS IFR HOOD

Francis hood restricts your vision totally to your instruments & because its small, will not block any part of an instructors vision. Made of lightweight, shock-resistant plastic, and has cushioned face pad for comfort. Adjustable elastic headband.

P/N 3962 .............$54.75

JEPP SHADES

Replacing bulky, hard-to-use instrument training hoods. The improved design allows better student/instructor interaction. The Cockpit proven design works conveniently under headsets and the universal adjusting strap reduces pressure on the ears and temple. The Velcro™ strap fits comfortably and flip-up lens allows convenient IFR/VFR flight transition. The high quality polycarbonate lens is impact resistant.

P/N 13-040311 ............$24.50

FOGGLES

A creative solution to the problems caused by wearing a large hood on your head. Foggles fit and feel like glasses, but the opaque frosting on the top and sides lets you see only the instrument panel. Your out the window view is always foggy. Wear them with headsets and microphone with no interference or discomfort. They come with a protective carrying case and weigh only two ounces. Clear P/N 13-02023 ..........$18.95
Yellow P/N 17-00039 ..........$22.95

SUPER HOOD

Ideal with eye glasses or headsets it slides in under the headset without relinquishing control of the aircraft and it can be instantly removed at any time for a safe approach or landing. Blocks outside reference but provides a full panel view to reduce vertigo. Light weight (3 oz.) and comfortable.

P/N 13-30200 ..........$21.75

IFR TRAINING GLASSES

Polycarbonate Lenses (UV Protected). Adjustable frames. High brow area to prevent “peeking”. Opaque frosting to simulate actual IFR conditions. Protective carrying bag included.

P/N 13-12050 ..........$17.95

VIBAN

Weights only 2 oz., making it easy to put on and take off during flight. Provides a perfect view of the instrument panel while providing complete occlusion forward and to the side. Even more, VIBAN folds compactly to fit in its own durable case and is easily stored in your flight bag.

Without Nosepiece P/N 13-02022 ..........$38.95
With Nosepiece P/N 13-02033 ..........$38.95

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
AIRCRAFT LOG BOOKS

AERO PRODUCTS AIRCRAFT LOGS

Permanent, hard cover, logs with leatherette cover printed in gold. Pages are updated to current FAA requirements. Generous line spacing. Size: 5.75" x 7.75"; 74 pgs; Green cover. Comprised of 9 sections: Airframe Description, Engine Description, Installed Equipment, Major Alterations, Life Limited Parts or Overhaul Requirements, AD or Factory Bulletin Compliance Record, Altimeter and Static System Checks, Radio and Electronic Checks, Maintenance Record (FAR 43-9), Inspection Record (FAR 43.11-91.217), AF-5 Hard Cover ......................... P/N 13-32385 $17.50
AL-12P Soft Cover ......................... P/N 13-04670 $11.50

CUSTOM-BUILT AIRCRAFT OWNERS & OPERATORS MANUAL

Contains space for listing of aircraft description, specifications, construction data, weight and balance calculations, operating limitations, operating instructions and servicing information. (L. Pazmany)

ASA AIRCRAFT LOG BOOKS

Designed to keep records of the entire aircraft in order: inspections, tests, repairs, alterations, ADs, service bulletins, and equipment additions, repairs or exchanges.

SA-1 soft cover-hunter green: 7.25" x 4": 64 pgs
P/N 13-32375 $4.75

SA-2 hard cover-Hunter Green: 7.75" x 5-5/8": 96 pgs
P/N 13-32384 $9.95

ASA AIRCRAFT FLIGHT LOG/LOGBOOK (SP-FLT)

Spiral-bound and perfectly sized to fit in an aircraft glove box or chart pocket, this logbook is a quick reference to the recent history of the airplane so pilots have immediate access to the airplane's records.

ASA PROPELLER LOGBOOK

Designed for Maintenance Technicians, IA-qualified mechanics, and students to log training and educational requirements, work performed, and experience for the purpose of tracking for future certification, re-employment, or insurance applications. Plastic coil binding stays open on current page. Soft cover, 7 1/2" x 11", 192 pages.

EAA EXPERIMENTAL AIRCRAFT - AIRFRAME LOGBOOK

General Aircraft Record, Record of Ownership, Initial Condition, FAA Airworthiness Inspection pages. Entry pages that the owner fills in the information. Soft Cover 54 pages. Revised 2012. This logbook was developed to meet the special requirements of experimental aircraft ....P/N 13-12324 $28.50

CULHANE AME PERSONAL LOGBOOK

This Culhane aviation training product AME personal logbook in hardcover format, fully meets CARs requirements. Those wishing to qualify for a Canadian Aircraft Maintenance Engineer license must successfully complete approved maintenance tasks appropriate to the rating sought in accordance with Part V of the CARs. This AME personal logbook is durable with a 4 mm textured imitation leather hardcover and Smyth-sewn binding. Also includes a bookmark ribbon. 128 pages, measures 5.75" X 8.75".

AIRCRAFT JOURNEY LOG

This is the full-size, hard-cover format (8.5" x 11") new Journey Log. 25% more pages! It has been designed to meet the requirements of the Canadian Aviation Regulations. As permitted by the CARs. There is now a page for Weight & Balance data at the front of the log. When open, the Journey Log pages lie flat to allow for easy data entry ....P/N 13-12323 $36.65

AIRCRAFT TECHNICAL LOG SECTION 1 AIRFRAME

The Airframe Log (Section 1) is used to record details of airframe flight hours and related maintenance tasks. Three-hole drilled for keeping in ring binder or TechLog Book. Vary the number of engine and prop volumes for multi-engine aircraft. The 5 sections are ordered separately, depending on the number of engines, props, etc. Each tech record can be bound with all the others into the TechLog Record. When bound together, the entire log is almost indestructible, yet each record can be removed easily for updating at any time.

Log Section 1 Airframe ....P/N 13-13235 $13.85
Log Section 2 Record of Installations ....P/N 13-13236 $8.75
Log Section 3 Engine ....P/N 13-13237 $12.50
Log Section 4 Propeller ....P/N 13-13238 $12.50
Log Section 5 Component ....P/N 13-13239 $7.95
Log Post Binder ....P/N 13-13240 $28.50

ASA ENGINE LOG BOOKS

Keep track of engine inspections, tests, repairs and alterations, airworthiness directives, manufacturers’ mandatory service bulletins & equipment removal or exchange. Color: Burgundy

Hard Cover (7.75" x 5-5/8") 96 pages ....P/N 13-32392 $9.95
Soft Cover (7.25" x 4") 64 pages ....P/N 13-32380 $4.75

EAA LOGBOOKS

Engine Log ....P/N 13-02253 $6.95
Propeller Log ....P/N 13-02255 $6.99

ASA AIRCRAFT FLIGHT LOG

The only log book your multi-engine aircraft flown by multiple pilots to keep track of the care and use of an individual aircraft. Spiral bound and perfectly sized to fit in an aircraft glove box or chart pocket. Logbook pilots will have quick reference to the recent history of the airframe without digging through those usually kept in the maintenance hangar ....P/N 13-30163 $9.50

ASA AVIONICS LOG BOOK

Includes entries for avionics equipment, VOR accuracy, transponder & ELT checks, AD & SB compliance, maintenance records. Soft cover, Black, 7-1/4" x 4", 20 pages.

AIRCRAFT TECHNICAL LOG POST BINDER

Basic Binder: Single and twin-engine airplanes have fewer maintenance logs which can be easily managed with these basic Chicago-screw type binders. This binder can hold four to eight maintenance logs, enough for the typical twin, with plenty of space remaining. These high density poly binders are fuel and solvent resistant, almost indestructible, and will protect your tech logs in any shop environment. Binder package includes envelope for service tags and airworthiness forms ....P/N 13-04153 $16.50

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
This professional log book from Jeppesen, measuring 6-1/2" x 11" is constructed of sturdy, easy-to-read ledger paper & includes an elegant cover.

**P/N 13-21728** $26.70

**JEPPSENE PROFESSIONAL EUROPEAN LOGBOOK**

Complies with JAR 1.080 regulations for logging flight time in Europe. handles 10 years of data. Size: 17.1 x 28.6 cm...

**P/N 13-02212** $39.90

**JEPPSENE PILOT LOGBOOK**

Our 96-page permanent record offers large flight time category spaces, arranged according to FAA regulations. Printed on "easy-eye" green pages that resist "bleed through". Size: 8-5/16" x 5-5/16"

**P/N 13-21729** $11.95

**LITTLE PILOT LOGBOOK**

The Little Logbook is the perfect gift for the aviation enthusiast. Record treasured stories and precious favorites, display adorable pictures and store mementos in this spiral bound 8.75" x 5.75" hard cover book that lays flat for easy entry and portable enough to carry with our on your next journey. This keepsake will be treasured not only by the parent but also by the future aviator that receives it as a record of childhood memories of flight.

**P/N 13-08051** $24.95

**STUDENT PILOT LOGBOOK**

This Logbook is designed for Student Pilots preparing for Private, Sport, and/or Recreational Pilot licenses. The student's learning progress is comprehensively tracked from his first flight to his last prior to his completion ride. This Logbook was designed for 14 CFR Section 61 (FAR Part 61) flight training requirements using 14 CFR Section 141 (FAR Part 141) documentation methods. There are upwards of fifty (50) critical areas of airmanship presented and tracked per flight. These areas range from take-offs, flight maneuvers, to landings. Discussion time is also tracked along with ground school briefing subjects. The Student Pilot and Flight Instructor can quickly identify problem areas or areas which do not need to be stressed or where the student needs to be stressed to help the student in progress-

**P/N 13-21720**...

**CANADIAN LOGBOOKS**

A reprinted version of the now defunct Transport Canada AME log book.

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**STANDARD LOGBOOKS**

Standard Layout spacing allows for organized hand-written entries. Large Pages Allow for multiple entries per page. Pre-punched for easy 3 Ring Organizing.

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**FLIGHT SCHEDULE LOG**

Essential to smooth dispatching, features include: a replaceable perpetual aircraft/instructor entry panel; standby request section; and ten 15-minute blocks. Charcoal Gray binder is 17-1/4" x 13-5/8" with 15" x 12 pages for easy viewing. 60 pages included, refill packs available.

**P/N 13-02008**...

**FLIGHT SCHEDULE REFILL PACK** - Can be used over and over with this 60-day refill.

**P/N 13-02009** $21.95

**POWDER PUFF PILOT AVIATRIX LOGBOOK**

This logbook-scrapbook hybrid documents a youngster’s early flying experiences. It’s removable, cardstock pages record their First Flight Plan, First Pilot Report, and a flight log. It also has pages for listing favorite pilots, future aspirations, thoughts and quotes about flying, photos, and drawings.

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**PILOT LOGBOOK (ASA-SP-10)**

Blue, soft cover, 7-3/4" x 4-1/8", 16 pages. Ideal as a pilot’s first logbook and for introductory flight give-away. The finest and most versatile logbooks for aviators. ASA’s logbooks have been “The Standard” of the industry for over 30 years and comply with the FAA’s recordkeeping requirements.

**P/N 13-33293** $19.95

**ASAI FLIGHT CREW LOGBOOK POCKET SIZE**

Created with the input of airline pilots and instructors, these shirt-pocket size logs are designed for long-lasting and comprehensive recordkeeping on the road. Options are provided for tracking flight time, currency requirements, expenses, duty times, layovers, and much more. Soft cover. Black. Spiral bound. 108 pages. 3-1/2" x 4-1/4".

**P/N 11-08801** $5.75

**ULTRALIGHT PILOT’S LOGBOOK**

This small logbook is perfect for the ultralight pilot. Includes sections for flight time, airframe repairs, and engine repairs, plus metric/inch conversion table and fuel/oil ratio chart. Measures 4 1/4" x 7".

**P/N 13-11509**...

**GLEM PILOT LOGBOOK**

The Gleim Pilot Logbook provides detailed entries for all inflight information, sections for certificates, ratings, and operating privilege endorsement section, table of contents, room for up to 450 entries, and much more. High quality paper and hard cover binding. 112 pages. 5x9".

**P/N 13-01822**...

**CULHANE PILOT LOGBOOK**

This Canadian pilot logbook by Michael Culhane fully meets CARs requirements and can be used by student pilots through professional pilots alike having all of the proper columns for flight times, dual, PIC, copilot, single engine, multi-engine, cross country etc. Page count: 160 pages with room for 852 separate entries. Actual size is 11/4" x 9 1/4".

**P/N 13-17634**...

**ASA STANDARD UAS OPERATOR LOG**

The Standard UAS Operator Log meets the needs of civilian, military, hobbyist, and professional operators alike so that critical flight details can be tracked. It provides record-keeping for flight operations of small and large unmanned aircraft systems (UAS) or unmanned aerial vehicles (UAV), remote-control aircraft (R/C), remotely piloted aircraft (RPA), and drones. Color : Grey

**P/N 13-18544** $10.95

WWW.AIRCRAFTSPRUCE.COM
**FLIGHT CREW LOG BOOK**

This shirt-pocket-sized crew log has 216 pages for recording flight times, expenses, duty rigs, crew names, phone numbers, door codes, and more. 12 monthly schedule pages, plus a provision for year totals in the appendix. Meets FAA & IRS record keeping requirements. Durable high quality vinyl cover. Red. 4.25” X 2.25”.  

P/N 14-00066 $8.50

**CULHANE CANADIAN AME LOGBOOK**

This AME personal logbook designed by Michael Culhane A Turp. BSc BA JD is logically organized based on CARs requirements with separate sections for M1/M2, Avionics (E) and Structures (S) ratings, along with separate columns for completion dates and certifications by the supervising AME. Additional sections are provided for personal data, education, training and employment history.  

P/N 13-18041 $19.95

**MASTER LOGBOOK CASE**

Durable nylon logbook cover sized to hold master logbook, charts, and other aviation essentials. Loop for pen or pencil, hook and loop closure, clear pockets for license and medical certificate. 7.5” x 11”; hold logbooks up to 6.5” x 11”.  

P/N 13-02311 $19.95

**LOG BOOK COVERS**

These nylon logbook covers are very light weight but cover and protect your logbook very effectively. The nylon material is extremely durable and is washable. The cover features a holder for two pens and a velcro pocket on the back for licenses, gas receipt, and other documents.  

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**ASA STANDARD/EASA FCL-COMPLIANT PILOT LOG**

The EASA FCL-Compliant Pilot Log meets European Aviation Safety Agency record keeping requirements and complies with Flight Crew Licensing rules, EU-FCL 050. A profile page in the front of the logbook provides personal info such as licenses held, date of medical check, license number, ratings, and aircraft type…P/N 13-21068 $9.50

**ASA DRONE LOGBOOK**

This Drone Logbook is the perfect place for hobbyists and drone operators to begin recording their flight time and experience. Log flight or mission details including date, aircraft, pilots, mission, and comply with the FAA’s recordkeeping requirements. Durable high quality vinyl cover. Black. 4.25” x 2.25”.  

P/N 13-06585 $2.35

**LOGBOOK ENDORSEMENT STICKERS**

Can be used for Flight Reviews and Instrument Proficiency Checks, and comply with FAR 61.56 and FAR 61.57 on PIC recent flight experience and flight reviews. Each sticker measures 2” H x 4” L. 10 stickers per sheet on white paper.  

P/N 13-06585 $2.35

**STANDARD PILOT LOG BLACK**

The finest and most versatile logbooks for aviators. ASA’s logbooks have been “The Standard” of the industry for over 30 years and comply with the FAA’s recordkeeping requirements. With so many options, there is a logbook that’s right for you. Versatile, easy-to-use and flexible enough to fit any pilot’s needs, student or ATP. Includes all instructor endorsements. Hard cover, black. 8” x 4 1/2”, 100 pages.  

Black…………………………………….P/N 13-32365 $7.95  
Burgundy………………………………P/N 13-32360 $9.75  
Pink……………………………………..P/N 13-18545 $8.75

**STANDARD PILOT LOG**

The finest and most versatile logbooks for aviators. ASA’s logbooks have been “The Standard” of the industry for over 30 years and comply with the FAA’s recordkeeping requirements. With so many options, there is a logbook that’s right for you. Versatile, easy-to-use and flexible enough to fit any pilot’s needs, student or ATP. Includes all instructor endorsements.  

P/N 13-32355 $9.95

**PROFLIGHT STUDENT PILOT LOG BOOK**

Here is a great way to record a first flight experience for yourself or friends. The ‘Student Pilot Logbook’ has a page for recording name, address, airport and instructor or pilot’s name. It has 4 standard pilot log book pages for recording all of the standard flight information. It has 2 pages of Instructor Endorsements and the ‘Notes Section’ on the last page is a great place to record first impressions. With room for 32 flight entries and a place to record Instructor Endorsements, these logbooks are great for students, flight schools, or those who like to give their guests a way to record their flight. Software: Size: 4”x 7 3/4”. Single………………………………P/N 13-10445 $2.95  
13 Pack……………………………..P/N 13-10446 $38.35

**ASA STANDARD/EASA FCL-COMPLIANT PILOT LOG**

This perfect place for hobbyists and drone operators to begin recording their flight time and experience. Log flight or mission details including date, aircraft, pilots, location, aircraft category (multi-rotor, single rotor, fixed wing), flight conditions, types of operating time, instruction received, PIC time, number of flights, number of takeoffs and landings, and total duration of flight. There is also a column to record special remarks related to the mission. A ground instruction log and maintenance log are also included, as well as a summary page to record flight time specific to make, model, dual instruction, and PIC time. Gray, soft cover, 7-3/4” x 4-1/8”, 16 pages.  

P/N 13-22748 $2.36

**PROFESSIONAL PILOT LEATHER LOGBOOKS**

These are designed and made to last a lifetime. Available in Aviation leather and brown leather which are styled to look like a log book dating back to the early days of aviation, as well as black leather which is standard in modern log books. This logbook is bound from true leather. The log pages are designed to keep traditional logging info but to provide more flexibility. It has customary Date, Aircraft, Pilots, Route & Remarks sections. Each page is 8.5” x 9”; 20 entries per page; 288 pages which allows for 2600 entries.  

Aviation brown leather………………………….P/N 13-02139 $99.95  
Antique - Brown leather………………………P/N 13-02141 $99.95  
Black leather……………………………………P/N 13-02140 $99.95

**WWW.AIRCRAFTSPRUCE.COM**

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BRIGHTLINE FLIGHT BAGS

BRIGHTLINE B2 COMPUTE BAG
The B2 Compute starts with the 2" Center Section, which is designed to hold 13" laptops. Add a Front and Rear End Cap and you have an extraordinary laptop bag. The Front End Cap allows you to store items such as power cords, backup drivers, flash drives, digital cameras, smart phones, tools, keys, etc. Meanwhile, the Rear End Cap allows you to store your manilla folders and documents. This can be used daily or you can attach the 2" Center Section to any other FLEX module. For example, you can zip it in between the Front Bag and the Rear Bag when traveling. This bag also includes the Portfolio Handle which can be attached to the Front End Cap. This will only be used when you decide to remove the Center Section Two and zip the Front End Cap and the Rear End Cap together to make a “Portfolio Bag”. P/N 13-11848 $149.00

BRIGHTLINE FLEX B4 SWIFT FLIGHT BAG
The B4 SWIFT makes a perfect VFR Flight Bag with room for one or two headsets, an iPad, a handheld radio, and organization for all of the little tech accessories. Remove the 4-inch Center Section and end up with the B-zero SLIM. Two different bags for the price of one. The B4 SWIFT is often recommended as the ideal VFR flight bag. It's designed to hold one or two full-sized radios plus a handful of charts, and/or an iPad, plus all the small stuff you’ll want along for the ride. It also serves as an unbeatable carry-on personal bag when traveling on commercial flights, or just as a terrific daily bag for a wide variety of personal and professional uses. P/N 13-19653 $196.00

BRIGHTLINE B7 PILOT FLIGHT BAG
The B7 FLIGHT is the FLEX version of our award-winning original Pilot Flight Bag updated by now being configured with End Caps and Center Sections to allow even more flexibility. The B7 FLIGHT is perhaps the most useful flight bag ever designed. It’s a fact that some days you need more gear than others. The B7 lets you carry a full set of flight gear for cross country and basic IFR flight. And then it lets you downsize to a smaller bag for those days when you’re just going to take a quick VFR flight. P/N 13-16012 $242.00

BRIGHTLINE FLEX B18 HANGAR FLIGHT BAG
A Flight Bag can travel Bag that can handle all your gear. Adaptable by adding or removing center sections as needed. Eight different bags can be built with the included modules. Eight bags for the price of one. Designed primarily for aviators who need a Pilot Flight Bag to pack multiple overnight items, such as clothes, shoes, coolers, etc., the B18 HANGAR fits the bill when maximum space is required. Also excellent for those in the Law Enforcement and Emergency Medical field. The B18 is 13.5" x 10.5" x 22" with interior storage capacity of 18 inches. (And remember, it is a soft bag so it can expand slightly in every direction.) P/N 13-19654 $389.00

BRIGHTLINE FLEX PACK CAP REAR
This specialized Rear End Cap turns any BrightLine Bag into a backpack (with limitations). This End Cap has backpack straps built in, but doesn’t look like a backpack when the straps are not in use. It’s easy to deploy the straps in less than 20 seconds. Use both shoulders to carry the load and be hands-free when necessary. P/N 13-18166 $54.00

BRIGHTLINE FLEX SIDE POCKET ECHO
This new SIDE POCKET ECHO is an infinitely-adjustable insulated water bottle pocket. It will securely hold anything from a small 0.5 liter size, up to a huge 1.5 liter size. The pocket can be adjusted exactly the size of any container in that range. Secures with two clips on two straps. Allows one-hand removal and replacement of the bottle. P/N 13-18167 $22.00

BRIGHTLINE SIDE POCKET DELTA
The Side Pocket Delta is a double pocket designed to provide greater outside storage with a larger pocket. Installs onto any two side-by-side attachment bays. Even bridges the gap between two modules. P/N 13-11989 $22.00

BRIGHTLINE SIDE POCKET CHARLIE
The Side Pocket Charlie is a pen pocket designed to hold pens and in addition, it will hold your eyeglasses and larger markers in the pocket behind the slots. P/N 13-11988 $15.00

BRIGHTLINE SIDE POCKET BRAVO
The Side Pocket Bravo is a small radio pocket designed for the small aviation radio. There is also room for extra batteries and smaller items. P/N 13-11987 $15.00

BRIGHTLINE SIDE POCKET ALPHA
The Side Pocket Alpha is a radio pocket that is designed to hold a large radio or water bottle. The zipper conceals an expansion flap. P/N 13-11986 $15.00

BRIGHTLINE REAR END CAP
The Rear End Cap is designed to mimic the outside of the Rear Bag. It is used to finish the exposed rear area of a bag, center section, or end cap by zipping on to the exposed area. By adding a Rear End Cap, not only do you add functionality, but you protect the exposed zipper, preventing possible damage. The Rear End Cap is 13.5" x 10.5". The Rear End Cap does not come with a Main Handle or a Shoulder Strap. P/N 13-11985 $30.00

BRIGHTLINE FRONT END CAP
This is the Front End Cap that mimics the front of the Front Bag. It is 13.5" x 10.5" x 1.5". The Front End Cap is designed to hold your cell phone, wallet, Multi-Tool, cords, cables, etc. It is not designed to be used alone as the zippers are exposed and could be damaged. Works well with a Rear End Cap. P/N 13-11984 $58.00

BRIGHTLINE CENTER SECTION 11 INCH
The CS11 was developed primarily for our IFR Flight Customers. With the B10, you get enough storage for VFR to light IFR flying. By adding a CS5, you can now add IFR Binders and documents, without changing the setup of the B10. Also, perfect for a couple days worth of clothes, two more sets of headsets, or a 13" laptop. The CS5 is 13.5" x 10.5" x 11". (And remember, it is a soft bag so it can expand slightly in every direction.) The CS11 comes with a handle and a shoulder strap. P/N 13-11983 $110.00

BRIGHTLINE CENTER SECTION 5 INCH
The CS5 was developed primarily for our IFR Flight Customers. With the B10, you get enough storage for VFR to light IFR flying. By adding a CS5, you can now add IFR Binders and documents, without changing the setup of the CS5. The CS5 is 13.5" x 10.5" x 5". (And remember, it is a soft bag so it can expand slightly in every direction.) P/N 13-11982 $63.00

BRIGHTLINE CENTER SECTION 2 INCH
The CS2 is designed for carrying 13" laptops, iPads and assorted documents. This center section is 13.5" x 10.5" x 2". Not designed to be used by itself due to the possibility of damaging the exposed zippers. Can be added to any configuration to add storage for your 13" laptop. Simply zip the CS2 into a B10, B16, or B25 to get added storage for your 13" laptop, iPad, or folders and documents. P/N 13-11981 $41.00

BRIGHTLINE BAGS O-RINGS
Slide the two pairs of o-rings onto the main handle of the BrightLine Bag and nestle the J-hook from your main suitcase in between the two pairs of o-rings to keep the J-hook from sliding side-to-side on the main handle of the BrightLine Bag as you pull your main suitcase around. Includes two pairs of o-rings (total of 4). P/N 13-11991 $2.00

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CM
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BRIGHTLINE FLEX B4 SWIFT - ECHO

The B4 SWIFT-ECHO makes a perfect VFR Flight Bag for Airline Captains as there is room for one or two headsets, one or two iPad, a full-sized water bottle, plus all the small stuff you’ll want along for the ride. The B4 SWIFT-ECHO includes our unique Main Handle J-Hook that is designed to fit onto the J-Hook of most rolling suitcases. It also serves as an unbeatable carry-on personal bag when traveling on commercial flights, or just as a terrific daily bag for a wide variety of personal and professional uses. The B4 consists of the POCKET CAP FRONT, CENTER SECTION 4, FLAT CAP REAR, along with two Side Pockets, Echo and Charlie. It also includes the MHJ and SS. It does NOT include a SLIM HANDLE KIT. If you ever think you’d like to remove the CS4 and zip just the two End Caps together to make the BO SLIM, you’ll need to make sure you also order an SLIM HANDLE KIT. P/N 13-21547.................$199.75

BRIGHTLINE FLEX B7 FLIGHT - ECHO

The B7 FLIGHT is perhaps the most useful flight bag ever designed. It’s a fact that some days you need more gear than others. The B7 lets you carry a full set of flight gear for cross country and basic IFR flight. And then it lets you downsize to a smaller bag for those days when you’re just going to take a quick VFR flight.

The B7E consists of the POCKET CAP FRONT, CENTER SECTION 4, FLAT CAP REAR, along with two Side Pockets, Echo and Charlie. It also includes the MHJ and SS. It does NOT include a SLIM HANDLE KIT. If you ever think you’d like to remove the CS4 and zip just the two End Caps together to make the BO SLIM, you’ll need to make sure you also order an SLIM HANDLE KIT. P/N 13-21548.................$249.00

BRIGHTLINE FLEX B-ZERO SLIM

The B0 SLIM is obviously the thinnest possible FLEX SYSTEM configuration. The “iPad bag” because works so well as an ultra-thin computing and personal bag - a “man purse” if you will.

The BO is simply the POCKET CAP FRONT and the FLAT CAP REAR modules zipped together. It has no definable interior storage dimensions since it is just two End Caps put right against each other, but the flexible nature of the parts allows one-half inch to three-quarters inch of flat items to fit inside between the modules.

P/N 13-21546..............$120.00

BRIGHTLINE POCKET CAP REAR

PCR: The POCKET CAP REAR module offers a variety of pockets organized into three “main” pockets, each one with two “secondary” pockets, for a total of nine small pockets on the Rear panel. There is also a flat half-height slip pocket on the inner surface of the module where you can stow an important document or two.

The key benefit of this PCR module is that you can put a second set of exterior pockets on the Rear of your bag, to go along with the ones that you already have on the Front of your bag. More pockets - More organization.

P/N 13-21549...............$58.00

BRIGHTLINE FLAT CAP FRONT

The FLAT CAP REAR attaches to the Rear Surface of all Center Sections as well as directly to a Front End Cap.

The FLAT CAP REAR module offers one flat pocket on the outside, and one flat half-height slip pocket on the inner surface of the module. The primary outer pocket is accessed from the top and has a cover flap that is secured with Velcro. This where you’ll likely store your iPad (as long as it’s not in a thick case), or a manilla folder or two for some documents, or a magazine.

P/N 13-21550.............$30.00

BRIGHTLINE CENTER SECTION TWO - TALL

The CS2-Tall is designed for carrying 15" laptops, iPads etc.

This center section is 15" x 10.5" x 2" and it can attach to all of the FLEX System modules including other center sections.

This item does not include a Main Handle or Shoulder Strap. If building a custom bag, make sure your order includes one or both.

The CS2-Tall can be used in any configuration and is not designed to be used by itself due to the possibility of damaging the exposed zippers. You will always want to have something (either another module or an End Cap) zipped onto both sides of the CS2-Tall to protect the zippers.

P/N 13-21551.............$46.00

BRIGHTLINE CENTER SECTION THREE

The Center Section Three offers 3 inches of storage and easily carries 13" laptops, some 14" laptops, tablets as well as documents, folders, clipboards, etc.

There is one small accessory pocket on the side panel, accessible with a vertical zipper. It’s a good size for pens, markers, highlighters, or spare reading glasses.

The Main Compartment of the CS3 has locking zipper sliders. P/N 13-21552.............$46.00

BRIGHTLINE CENTER SECTION FOUR

The Center Section Four offers four inches of storage depth and comes with a divider shell attached to the side walls of the main compartment with Velcro. This shell can be positioned right where you need it or removed for full access storing one or two headsets or GPS.

This item does not include a Main Handle or Shoulder Strap. If building a custom bag, make sure your order includes one or both.

The interior of the CS4 is 13.5" tall, 10.0" wide, 4.0" deep. P/N 13-21553.............$58.00

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BRIGHTLINE ACCESSORIES

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FLIGHT BAGS

AERO SQUADRON LEATHER BAGS

AERO SQUADRON LEATHER DUFFLE BAG
Carry on Bag
Dimensions: 119” Length, 10” Height, 9.5” Width
Color: Walnut
P/N 13-07202 ........ $329.00

AERO SQUADRON LEATHER BRIEF CS
Satchel Brief.
Dimensions: 16.5” Length, 12” Height, 4” Width
Color: Walnut
P/N 13-07199 ........ $386.00

AERO SQUADRON LEATHER CARRY-ON
Dimensions: 13L x 18H x 7W.
P/N 13-07206 ........ $490.00

AERO SQUADRON LEATHER TRAVEL SLING
Travel Sling.
Dimensions: 13.5” Width 9.75” Height, 6.75D.
Color: Walnut............ P/N 13-07204 .......... $187.75

AERO SQUADRON LEATHER HANDBAG
Handbag Collection
Dimensions: 8.25” Length, 10.5” Height, 3” Width
Color: Walnut.......... P/N 13-07207 ........ $170.00

AERO SQUADRON LEATHER SHAVE KIT
Shave Kit
Dimensions: 10” Length, 6” Height, 4” Width
Color: Walnut.......... P/N 13-07198 .......... $115.75

AERO SQUADRON LEATHER SHIELD TOTE
Man Bag w/Shoulder Strap
Dimensions: 6-1/2” x 9” x 4”
Color: Walnut
P/N 13-07201 ........ $128.75

FLIGHTLINE FLIGHT BAGS

LARGE DELUXE FLIGHT BAG
The top of the line Flight Bag by Flightline boasts an incredible array of features for the price. This heavy-duty bag is double stitched and ideal for large loads.
Dimensions: 12”H x 7-1/4”W x 14-1/2” L
P/N 13-04255 ............ $67.75

MEDIUM DELUXE FLIGHT BAG
This Flight Bag is ideal for pilots who have a lot to carry but not a lot of space to put the bag. It is currently any pilot’s favorite flight gear.
Dimensions: 10”H x 6-3/4”W x 12-1/2” L
P/N 13-04256 ............ $62.95

DELUXE HEADSET BAG
It is the perfect bag to protect and organize any fragile and expensive equipment. Not only will this bag hold a headset, but other necessary items as well.
Dimensions: 10”H x 4-1/4”W x 10” L
P/N 13-01416 ............ $27.95

BISON FLIGHT BAGS

MOUNTAIN ULTIMATE FLIGHT BAG
Taller than most bags, it makes more use of the vertical room in your narrow baggage compartment or cockpit. At 19.5 inches long, 9 inches wide, and 14 inches tall you can pack everything you need to fly with and there is enough room left over for a couple days worth of clothes. The interior compartment is 14 inches long, 7.5 inches wide, and 14 inches tall. A removable interior divider velcros in place to increase storage options.
There are nine exterior pockets. Exterior pockets include a padded headset pocket, padded pocket specifically for Garmin 496 or similar GPS’s (or handheld radios), cellphone pocket, pocket for magazines or newspapers, water bottle pocket, chart pocket, 8.5 inch by 7 inch pocket for logbooks or aircraft manuals and pen, pencil, flashlight holder. Large padded laptop compartment that measures 14 inches long, 12 inches high, and 1.5 inches wide. A clear plastic identification card holder. There is a place for military or civilian wings that attach with velcro. It comes with sturdy carrying handles that velcro together and a removable carrying strap.

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MOUNTAIN RV FLIGHT BAG
A practical solution to organizing the cargo area of your RV-6, RV-7 or RV-9. Also makes a great overnight bag!
The RV Flight Bag was designed to fit behind the pilots and co-pilots seat of the RV-6/7/9. It fits over the flag actuator bar and makes maximum use of the area behind your seat. 18 inches high and 12.5 inches wide. There are two side pockets, one 10” x 4” and a 7” x 5.5” map pocket. The rear side of the bag has a pencil / flashlight / fuel tester pocket, a 10 inch x 7 inch headset pocket, and a 6” x 5 ¼” pocket for small tools. It has a nice carrying handle and comes with two traps that can be attached to your seat back to clip the bag to your seat to minimize movement. It also comes with a removable shoulder strap.

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NORAL EXPRESS FLYER BAG
The swing hook for the adjustable shoulder strap is made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. Made of 1680 Denier Ballistic water repellent material. Its interior is fully padded and covered with the liner of water repellent taffeta.
Black…………………………………………………………P/N 13-11441 ………..$61.75
Grey…………………………………………………………P/N 13-11440 ………..$64.75

NORAL TRIPLE HEADSET BAG
The Noral Triple Headset Bag is made of 1680 Denier Ballistic water repellent material. Interior is fully padded and covered with the liner of water repellent taffeta.
Black…………………………………………………………P/N 13-11430 ………..$59.75
Grey…………………………………………………………P/N 13-11433 ………..$61.95

NORAL FLYING CLUB BAG
This bag is designed for all pilots, especially for the cockpit artillery, pilot, and military and for private and student pilots. This bag can hold most essential instruments efficiently. The main compartment of this bag can hold a large headset, logbook and/or any other similar items. The rear pocket works well to hold books, charts or similar items. There is also a small front pocket with zipper closure and two side pouches for Transceiver/ GPS etc. Made of 1680 Denier Ballistic water repellent material. Its interior is fully padded and covered with the liner of water repellent taffeta.
Black…………………………………………………………P/N 13-11442 ………..$55.95
Grey…………………………………………………………P/N 13-11444 ………..$57.99

NORAL ATTACHE FLIGHT BAG
This bag comes with two side pockets for large headsets. One of these side pouches has a flap pocket with zipper closure to store pens, flashlights, ID card and/or license etc. Inside the main compartment there is one removable pouch for for Transceiver/GPS/Two extra dividers can be adjusted to different positions and are removable. The front of the bag has a large open pocket for easy access. The back of the bag has a large zipper pocket with piano type opener and three dividers. At the bottom floor of this bag is a removable plastic board to reinforce it and to keep the bag from sagging when fully loaded. Made of 1680 Denier Ballistic water repellent material. Its interior is fully padded and covered with the liner of water repellent taffeta.
Black…………………………………………………………P/N 13-11446 ………..$206.95
Grey…………………………………………………………P/N 13-11448 ………..$216.95

NORAL IPilot BAG
This bag can hold most instruments and is compact to save cockpit space. There are a total of 13 pockets inside and one large pocket outside for a headset. The main compartment of this bag can hold a large headset or other equipment. It has another zipper pocket in the front for a logbook or any other similar item. This bag also has some small rear pockets.
Grey…………………………………………………………P/N 13-12432 ………..$142.75
Black…………………………………………………………P/N 13-12433 ………..$139.75

NORAL AVIATOR FLIGHT BAG (DETACHABLE)
The main compartment of this bag has a removable divider which can be adjusted to a different position. The bottom floor has a removable plastic board to reinforce it and to keep the bag from sagging when fully loaded. Made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. Made of 1680 Denier Ballistic water repellent material.
Black…………………………………………………………P/N 13-11428 ………..$125.95
Grey…………………………………………………………P/N 13-11429 ………..$176.75

NORAL AIRCRAFT DOCUMENT HOLDER
This durable document holder is made of strong fabric with two clear pockets to hold your aircraft document secure and visible. It comes with two inches of velcro to be placed anywhere that velcro can be applied to.
Velcro…………………………………………………………P/N 13-01134 ………..$23.85

NORAL ANGELS TOOL BAG
Two side pouches and one of the side pouches is an open pocket for easy access. In the front of the bag is a large zipper pocket and both the front and back of the bag have reflector bands that can be seen at night time. The back of the bag can be opened like a portfolio and there are 21 elastic loops to keep tools organized. Inside this portfolio is a large zippered pocket. The main compartment has 10 more elastic loops for small tools and 3 easy access pockets. The main compartment also has a removable and adjustable divider to keep instruments organized.
Color: Grey…………………………………………………………P/N 13-11421 ………..$153.75

NORAL HEADSET BAG
This bag is ideal for the pilot that wants to carry a passenger headset or his own, separate from his flying bag. It is constructed with genuine DuPont® Cordura® 1000 Deniers, water resistant, fully padded with a 1/4” foam and backed with a layer of EPP foam in a separate zippered compartment along with an extra side pocket.
Grey…………………………………………………………P/N 13-00286 ………..$36.50
Black…………………………………………………………P/N 13-00288 ………..$34.60

NORAL STUDENT PILOT BAG
The Student Pilot Bag has plenty of room for everything a student pilot needs to carry and more. It has 2 extra large zippered headset pouches plus another zippered section to store pens, flashlights, fuel tester, EEB computer and more! Access to the main compartment is through a double zipper flap with a pull cord. In addition to the carrying handles, a detachable padded shoulder strap is included. Size: 11H x 10.5W x 15.5L
Grey…………………………………………………………P/N 13-00294 ………..$79.95
Black…………………………………………………………P/N 13-00297 ………..$76.75

NORAL PRIVATE PILOT BAG
This bag is perfect for Transceiver/ GPS etc. Made of 1680 Denier Ballistic water repellent material. Interior is fully padded and covered with the liner of water repellent taffeta.
Black…………………………………………………………P/N 13-04088 ………..$113.85
Grey…………………………………………………………P/N 13-04092 ………..$121.85

NORAL MACH 1 FLIGHT BAG
The Mach 1 flight bag is compact to roomy. The bag features a wide 5” double zippered access flap with a pen and pencil holder. There are two end compartments “X10”. On the front, a zippered “X1” compartment has a large open pocket for easy access. The back of the bag is made of 1680 Denier Ballistic water repellent material. Interior is fully padded and covered with the liner of water repellent taffeta.
Black…………………………………………………………P/N 13-11425 ………..$190.75
Grey…………………………………………………………P/N 13-11424 ………..$199.95

NORAL MACH 2 FLIGHT BAG
This bag is made of 1680 Denier Ballistic water repellent material. Interior is fully padded and covered with the liner of water repellent taffeta.
Black…………………………………………………………P/N 13-11425 ………..$190.75
Grey…………………………………………………………P/N 13-11424 ………..$199.95

NORAL AIRCRAFT SPRUCE SINGLE HEADSET BAG
Safe and convenient way to protect a single headset. Features foam padded single zippered compartment with convenient webbing handle. Made in USA. Size: 7”L x 4”W x 9”H. Color: Black…P/N 13-00291 ………..$15.50

NORAL HEADSET BAG
The main compartment of this bag can hold a large headset and another space with divider for logbook and/or any other similar item. This bag has a rear pocket with secure touch fastener. It also has a small front pocket with touch fastener and one pouch in the left side for Transceiver/GPS. The right side has holders for pen and small flash light. The main compartment is 9”H X 9”W X 4.5”D. Color: Black…………………………………………………………P/N 13-07466 ………..$113.95
Grey…………………………………………………………P/N 13-11356 ………..$43.99

NORAL CFI / IFR PILOT FLIGHT BAG
This bag has two side pouches equipped for large sized headsets. One of these side pouches has a flap pocket with a zipper closure to store pens, flashlights, ID card and/or license etc. Inside the main compartment is two removable pouches for Transceiver/GPS. The right side of main compartment is H11” X W14.5” X G10”. In the front of the bag is a large open pocket for easy access. The back of the bag has two open pockets and the bottom floor of the bag is a removable plastic board to reinforce it and to keep the bag from sagging when fully loaded. Also, this bag has two dividers in the main compartment that can be adjusted to a different position and can be removed if desired. ………..P/N 13-15768 ………..$167.99

NORAL AIR MAP CASE 1000
The Noral Air Map Case 1000 is made of 1680 Denier Ballistic water repellent material. Interior is fully padded and covered with the liner of water repellent taffeta.
Black…………………………………………………………P/N 13-11434 ………..$28.50
Black…………………………………………………………P/N 13-11435 ………..$34.85

Prices Subject to Change Without Notice
ASA AIRCLASSICS FLIGHT BAG
ASA has brought pilot gear to a new level with the AirClassics series of pilot bags. Focusing on a clean, sophisticated and professional look, they have been designed and engineered to be supremely functional. Padded 600D nylon for superior durability. Comfort Grip connectable handles. Non-slip detachable carry strap. Reinforcing straps around bag for strength. #10 zippers for easy handling. Headset pockets on both ends. Large single-pull, zippered & dividable main compartment. 18”L x 11”H x 7”W. P/N 13-02336 $68.95

ASA AVIATOR FLIGHT BAGS
The Pilot Bag and the Trip Bag, are made of fully padded nylon for extreme durability. They feature wraparound carry straps for strength, a non-slip detachable shoulder strap, and high-quality zippers on the main compartments. 

Pilot Bag...........P/N 13-04057 $37.95
Trip Flight Bag.....P/N 13-04058 $39.75

PROFLIGHT PREMIUM HEADSET BAG
Three small individual pockets. It is made to resist water and tears. Padded protection for an individual headset with a dual zipper on top makes access very easy. Will fit most ANR headsets. Size: 10-3/4” x 11-3/4” x 5”. P/N 13-06936 $19.95

ASA TABLET BAG
The Tablet Bag is the perfect size for student and professional pilots alike! This conveniently sized bag, handy for pilots and aviation professionals alike, holds a tablet, headset and other small personal items for your flight. This bag will hold a lot more than just a tablet, in fact, it has plenty of room for a 13” laptop and a tablet. It will also hold a headset, charts, a plotter, logbook, radio, or gps unit, and all of those other small items a pilot may need to carry. The outside of the bag has a spot for a flashlight or fuel tester and a zip pocket for a radio, GPS, or water bottle. The padded, adjustable shoulder strap can be worn cross body for a comfortable fit, and easy portability. Focusing on a clean, sophisticated and professional look, the ASA AirClassics® Tablet Bag is designed and engineered to be supremely functional, able to stand up to the toughest treatment possible, yet still look great at the end of the day. P/N 13-18460 $69.95

ASA FLIGHT BRIEFCASE
The Pilot Briefcase features an expandable, zippered main compartment with room for all ground and flight school necessities. The outer flap provides easy access to a chart pocket with multiple accessory storage areas to store everything from pencils and pens, to flashlights and flight computers. Also perfect for laptop computers. Each bag is black with the ASA wings logo tastefully silver-embroidered on the top. Count on ASA’s AirClassics Flight Bags to bring many years of utility and pride. 15-1/2”L x 11”H x 3”W. P/N 11-08805 $24.95

ASA AIRCLASSICS PILOT BACKPACK
The ASA AirClassics® Pilot Backpack is made of durable fabric and supported by a heavy-duty water-resistant bottom, this backpack keeps books and supplies organized and protected. Four zippered compartments provide ample room for just about anything a pilot-on-the-go needs. The front pocket will accommodate most aviation headsets, including the HS-1A Headset and Single Ear Headsets, and also sold separately. The second Level compartment has a lanyard for keys, a zipper compartment, and plenty of pockets and slots for pens, pencils, flight computers and plotters. The spacious main compartment supports textbooks and manuals, and the check-point-friendly fold-down back panel contains a padded pocket for a laptop, and a felt-lined pocket for a tablet. The backpack’s interior contrasting-color lining makes it easy to find things inside. P/N 13-18424 $83.95

AEROCOAST PRO SLIM NOTEBOOK BAG
A great addition to the 13-12894 Pro Cooler Bag sold separately. Shoulder strap connection points on both modular sections. Easy X-ray screening at TSA checkpoints so you will never take out your laptop again. You will save time and you will protect your laptop, iPad or EFB from physical damage. Ipad compartment dimensions 15 x 11 x 1.5 inches. P/N 13-12895 $27.80

AEROCOAST PRO COOLER I
Eat healthy on the road and save money. This cooler bag has two separate insulated compartments with silver lining to keep your food warm or cold. Tired of lugging around more than you have to? Do you want to eat healthier and save money while on the road? You can eliminate a lot of day to day hassle at the TSA checkpoints. Ergonomically designed to fit in your bag or carry-on. Four additional pockets for easy storage of accessories. Rigid case construction for added durability. A great addition to the 13-12895 Pro Slim Notbook Bag sold separately. P/N 13-16281 $94.95

AEROCOAST PRO EFB & INSULATED COOLER BAG
Top pocket for sunglasses. Shoulder strap connection points on both modular sections. Modular design lets the EFB & Cooler portion to be used independently or used in unison. Easy X-ray screening at TSA checkpoints so you will never take out your laptop again. Two separate insulated compartments to keep your food warm or cold. Four additional pockets for easy storage of accessories. Leak resistant main compartment design. Fits under aircraft seats for easy stowage on travel. Outside dimensions: 15 x 11 x 10 inches. Laptop compartment dimensions 15 x 11 x 3 inches. P/N 13-12893 $119.95

AEROCOAST PRO CREW I FLIGHT BAG
The Next-Gen airline pilot flight bag. You can breeze through and eliminate a lot of the stress at TSA checkpoints. YKK Zippers and rigid composite construction to increase durability. Ergonomically designed snap handle for quick, easy, and comfortable carrying. Quick access top compartment for extra storage has been added, in addition to 5 pockets for easy organization and storage of accessories. Interior padded compartment makes for a great way to carry and protect your laptop, EFB, or iPad, etc. with additional room to bring books and manuals and all of your necessary trip accessories.

Specifications: – Outside: 16 x 11 x 9.5 inches • Interior Compartments: Main: 15.5x11x7 inches • Second forward: 15.5 x 11 x 1.5 inches • Most forward: 15.5 x 11 x 1 inches. P/N 13-22309 $117.14

AEROCOAST PRO CREW I-W FLIGHT BAG
YKK Zippers and rigid composite construction to increase durability. Ergonomically designed snap handle for quick, easy, and comfortable carrying. This bag has quick access top compartment for extra storage, in addition to 5 pockets for easy organization and storage of accessories. Interior padded compartment makes for a great way to carry and protect your laptop, EFB, or iPad, etc. with additional room to bring books and manuals and all of your necessary trip accessories.

Specifications: – Outside: 15.5 x 13 x 11 inches • Interior Compartments: Main: 15.5 x 11 x 7 inches • Second forward: 15.5 x 11 x 1.5 inches • Most forward: 15.5 x 11 x 1 inches. P/N 13-22310 $160.00

AEROCOAST PRO JETPACK I BACKPACK
This ultimate bag has 3 primary compartments and multiple usable organizational pockets for easy organization and storage of required equipment such as headsets, EFB’s, laptop, glasses, and all the associated accessories. Interior padded compartment makes for a great way to carry and protect multiple EFB’s laptops, tablets, etc. with additional room to bring food, and all of your necessary trip accessories.

Specifications: • Outside: 16”x13”x8” • Main compartment: 15”x12”x5” • Main Laptop compartment: 14”x12”x2” • Front iPad/ EFB sleeves: 12”x11”x5” • Sunglass compartment: 10”x3”x2.5”. P/N 13-22311 $154.29

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FLIGHT BAGS

AIRCLASSICS™ SINGLE HEADSET BAG
For those who like to fly with minimum baggage, this holds one headset, has extra pockets, and all-around padding.
P/N 13-02333 $16.95

VOYAGER II FLIGHT ATTACHE FOR IPAD
The Voyager II has upgraded metal snap hooks and d-rings to attach the stretchy, comfortable Air Lift shoulder strap. There is a separate pocket inside to carry your iPad, 2 or 3 and will fit most iPad cases. The outer side pocket features a removable AND adjustable strap. The handles are now made of 1680D and the entire bag is accented with Leatherette. All the same organizing features including the Co-Pilot organization flap, chart pockets and battery sleeves are all still where they were before. If you fly with an iPad, this is a great case to help organize during your pre-flight. Size: 17.0 X 11.5 X 5.5in. Weight: 2lbs 13oz P/N 13-11877 $63.85

FLIGHT BAG 1 V2
This bag is like the hard flight cases airline pilots use. There’s no maze of compartments, just efficient, sensible storage. Maybe that’s why a major US airline flight training academy chose Bag1 as standard issue for their students. This Cockpit Bag is simple, practical, and cockpit friendly. Perhaps its ease of use is a brighter idea. Enjoy the simplicity of well thought out storage, just right for most pilots.
Color: Black P/N 13-20149 $64.95

PORTABLE FOLDING LUGGAGE CART
3-Way portable luggage cart (folding cart) in black plastic with 37.5” extension handle. Load to up to 66 lbs. Store flat. Makes moving items easy. Fits the Brightline Bag perfectly!

LARGE CARRY BAG WITH DIVIDER SYSTEM
Large Carry Bag with Divider System for Aviation Gear and Accessories. Constructed of rugged 1200D Nylon. Ample Storage compartment sizes. Dividers are movable to easily adjust. Handy ‘Remove Before Flight’ visual reminder. Bungee strap system for quick storage. Straps on the back are perfect for securing larger items.
Color: Black Handles: Carry Handle. Latches: Zippered. Interiors: 22.00" x W: 12.00" x H: 10.00" P/N 13-17855 $99.99

POWDER PUFF PILOT PINK FLIGHT BAG
In response to customers who lamented not being able to find a pink flight bag – here you are! A padded handle and gray shoulder strap makes it easy and convenient to tote – even when it’s full. The main compartment is roomy enough to carry headsets, charts, and flight gear for a cross-country adventure; or clothes, toiletries, and makeup for a weekend getaway. Includes hanging pockets for easy access to your wallet, keys and cell phone, as well as a mesh pocket for your water bottle. Bag dimensions: 10½ by 17½ by 10½ inches and cell phone, as well as a mesh pocket for your water bottle. Bag dimensions: 10½ by 17½ by 10½ inches...

AVCOMM DELUXE DUFFLE FLIGHT BAG
AvComm Pilot Deluxe Flight Bag with 7 Compartments. Great for your flight gear, travel or any overnight stay. Features: Seven compartments with shock resistant padding • Dual zippered flap on center compartment has a Velcro® strip making it easy to zip • Inside, a Velcro® partition and pouch with Velcro® closure secures radios and gear • Outside features a large compartment, two zippered end pockets for headsets, and two additional gusseted pouches.
Specification: • Dimensions: 18’L x 10.5’W x 9’H • Weight: 2 lbs.
P/N 11-02277 $39.00

FORCE PROTECTOR GEAR HELMET BAG
FPG HelmetBag design! This bag features a much larger storage capability without taking up too much cabin space in aircraft. The pleated bag design expands and contracts with your loadout to easily fit your helmet and accessories. Dimensions: 21.5” wide x 19” Tall x 3.25” D (54.6cm wide x 48cm Tall x 8.3cm D). Capacity: 1226 cubic inches internal / 20 liters / 676 cubic inches external pockets / 11 liters. Weight: 2 lbs / .9kg.

Color Part No. Price
Black 13-20223 $181.75
Multi-Camo 13-20637 $181.75
ACU Camo 13-20638 $181.75
ABU Camo 13-20639 $181.75
Coyote 13-20640 $181.75

THE AVIATOR BAG
Slightly smaller than the Navigator Bag, but still spacious enough for all your flight materials. Includes 1 exterior front pocket as well as detachable headset & transceiver cases. Constructed with durable PVC backed with 600 denier poly. 15” x 6.5” x 12” (black only).
P/N 13-00998 $72.75

THE STUDENT PILOT
A great first bag for the student pilot. Numerous outside pockets organize charts, flight computer, fuel tester, plotter, pens and pencils, flashlight and much more. Comfortable, wide removable shoulder strap; double zipper opening for easy access. Reinforced bottom. Constructed with durable PVC backed 600 denier poly. 10” x 5.5” x 17” (black only).
P/N 13-00997 $31.95

JEPPSEEN STYLE FLIGHT BAG
Student/Book Bag: Same great bag Jeppesen uses for its training kits. The bag is made from heavy-duty 6000 denier Cordura for superior strength and with a PVC coating on one side for added water resistance. Includes outside pockets, removable shoulder strap, reinforced bottom. Size 10” x 5.5” x 17”
P/N 13-06280 $29.95

AIRCRAFT DOCUMENT CASE
This durable, flexible blue cordura pouch is an ideal way to keep aircraft registration, insurance, log books, operating manuals, and other important documents all in one safe location. Measures 18”W x 12”H. Features top quality zipper along front side for easy access and location to mark your aircraft number on front.

Color Part No. Price
Blue 13-20665 $19.95
Black 13-11883 $23.50
Red 13-02934 $19.95

WWP-102 HEADSET BAG
This padded carry bag provides inexpensive insurance against head set damage. Featuring dual zippered openings, inside pocket sectionals, computers, glasses, etc. Bag is constructed of black waterproof nylon with carry handle.
P/N 17-00231 $15.95

GELFLEX “CREW” LUGGAGE TAG DUAL SIDED
The Gelflex Crew Luggage Tag is a great version of a traditional Crew Tag. Black letters (CREW) on vibrant background. And best of all, it comes with a special flexible cord that enables you to attach it to your luggage or equipment without worrying about whether it will break or tear. 3-3/4” x 2-1/4.
White Tag P/N 14-02963 $5.80
Blue Tag P/N 14-02960 $5.75
FLIGHT OUTFITTERS LIFT FLIGHT BAG

This sturdy bag has room for all the essentials, but won’t get in your way. Includes a large headset pocket, iPad pocket and multiple organizer sections with room for all your accessories. A helpful exterior pocket makes it easy to grab your backup radio in an emergency. Steel-reinforced carrying handles will haul even the heaviest load, and the reinforced sides offer additional protection. Signature orange interior makes it easy to find the flashlight or pen in the dark. Brown .................. P/N 13-18181 ........... $99.95

FLIGHT OUTFITTERS BUSH PILOT FOLIO BAG

Whether you’re soaring above the clouds in your Cirrus or closing a big deal in your desk chair, this Folio Bag looks like it just left the flight deck of a DC-3. But while the Bush Pilot Folio has plenty of style, it’s also a very practical bag, storing a surprising amount of gear without looking bulky or weighing you down. It has separate pockets for headsets. The large front zip pocket has 4 organization pockets, for chargers and other smaller items that tend to find their way to the bottom of other bags. The Bush Pilot Bag also features a pass through strap on the back to slide over rolling luggage handles and a leather shoulder strap pad. P/N 13-19105 ......... $165.00

FLIGHT OUTFITTERS LIFT PRO FLIGHT BAG

The Flight Outfitters Lift Bag is offered in all-black. This sturdy bag has room for all the essentials, but won’t get in your way. Includes a large headset pocket, iPad pocket and multiple organizer sections with room for all your accessories. A helpful exterior pocket makes it easy to grab your backup radio in an emergency. Steel-reinforced carrying handles will haul even the heaviest load, and the reinforced sides offer additional protection. Signature orange interior makes it easy to find the flashlight or pen in the dark. ................. P/N 13-22022 ........... $99.95

FLIGHT OUTFITTERS LIFT XL PRO FLIGHT BAG

The Lift XL Pro is ideal for professional pilots who prefer an understated, all-black look. As a larger version of the top-rated Lift Pro Bag, the Lift XL Pro adds more room for storage (ex. two headsets, not included) and more organization options, all while retaining the signature design features that make Flight Outfitters bags so useful in the cockpit. For professional pilots who prefer an understated, all-black look, the Lift XL Pro is ideal. Features a solid black exterior but with the signature orange interior so items are easy to find in the dark. Slides over your rolling luggage for easy transport.

Specifications:

- Weight (empty): 2 lbs.
- External: 18"w x 10.5"h x 9"d
- Main Internal Pockets (front to back) .......... P/N 13-22020 ........... $165.00

FLIGHT OUTFITTERS LIFT XL FLIGHT BAG

The Lift XL is a larger version of the top-rated Lift Bag, adding more room for storage (ex. two headsets, not included) and more organization options, all while retaining the signature design features that make Flight Outfitters bags so useful in the cockpit. For professional pilots who prefer an understated, all-black look, the Lift XL is ideal. Features a solid black exterior but with the signature orange interior so items are easy to find in the dark. Slides over your rolling luggage for easy transport.

Specifications:

- Weight (empty): 2 lbs.
- External: 18"w x 10.5"h x 9"d
- Main Internal Pockets (front to back) .......... P/N 13-22020 ........... $165.00

FLIGHT OUTFITTERS PROPACK BAG

The Pro Pack is an optional insulated bag that is designed to fit inside one of the hide away pockets of the Flight Level Bag. This handy pack provides extra protection for delicate items or an insulated place to put your snack out of the way of your flying gear. FLIGHT LEVEL Pro Series bag is not included. .................. P/N 13-18539 ........... $12.95

FLIGHT OUTFITTERS GARMIN EXECUTIVE BLACK FLIGHT BAG

This Garmin executive ballistic nylon shoulder bag was designed with the pilot in mind and includes custom-made pouches to hold Garmin portable devices, such as the aera 796, VIRB action camera and GDL 39. Some of these pouches are even removable. Special pass-through areas are included throughout the bag to allow you to charge your devices from a separate battery charger without having to take them out of the bag. P/N 10-06882 ........... $115.00

GARMIN EXECUTIVE BLACK FLIGHT BAG

This Garmin executive ballistic nylon shoulder bag was designed with the pilot in mind and includes custom-made pouches to hold Garmin portable devices, such as the aera 796, VIRB action camera and GDL 39. Some of these pouches are even removable. Special pass-through areas are included throughout the bag to allow you to charge your devices from a separate battery charger without having to take them out of the bag. P/N 10-06882 ........... $115.00

ASA DISPATCH BAG

Adjustable comfort shoulder that can also be worn cross-body. Top grab-and-go handle. Contrast lining, to find items more easily. Made of durable, 600D Polyester. Spacious main compartment fits headset. 2 pockets within main compartment keep headset accessories or smaller items organized. Front interior compartment organizer with slots and pockets to store phone, keys, wallet, pens. Padded compartment to protect a tablet. Exterior slide-in back slot to store charts or easy access items. Exterior slots for flightline supplies like a fuel tester, flashlight, and pen. Side pocket with adjustable strap to secure, radio, gps unit, or water bottle. P/N 13-18458 ........... $46.65

Prices Subject to Change Without Notice
**SKY HIGH GEMINI**
The Gemini flight bag is a fully padded duffle designed to protect the pilot’s important gear. It is made with full sized compartment flaps, allowing easy organization of flight materials and access during flight - there is even a special stow-a-way pocket designed to hold most kneebords. Everything is right where it should be - especially important during IFR flights. The center compartment has a double zipper opening with a padded quad-modal divider to segment the compartment for custom organization and easy access.

P/N 13-04254 .............$83.95

**SKY HIGH EXPLORER PRE FLIGHT POUCH**
Our preflight pouch is made of durable 600D Polyester. It is designed to organize and hold your basic items for your preflight – Mini Mag size flashlight, fuel tester, pen/pencil, tire pressure gauge, and pliers or wrench. We have also included a grommet on the corner so you can attach a towel for wiping your hands clean. The Explorer will fit easily into any bag and has a Velcro strap to attach to your waist belt for convenience during the preflight.

P/N 13-03276 ..............$9.95

**PROFLIGHT STUDENT PILOT BAG**
The ProFlight Student Pilot bag is a great value! Black Cordura type material, carry strap. Great for students; use alone or as an accompaniment to your travel luggage. This bag is similar in size to the Jeppesen Student Pilot Bag in style and materials with multi side pockets. Size: (L)17” x (W)6” x (H)10”.

P/N 13-06280 ..............$29.95

**SCHEDENEN BAGGAGE LIGHT KIT ENSEMBLE**
The finest 3-piece flight crew luggage ensemble in the world. Manufactured in the USA using the finest materials and hardware available. Our ensemble is taller with a more slender profile (similar to that of a beverage cart) that allows you to slip down aisles of any aircraft to the flight deck with ease. Black. VLK (Very Light Kit): • 12”H x 14”W x 5”D (2.8 lbs) • For pilots who have gone paperless! Perfect for iPads, laptops, or both • Ample storage for headset, flashlight, water bottle and gear • Removable padded shoulder pad • 1 Exterior zippered pocket • 1 Interior zippered pocket • 2 Interior breathable mesh pockets • 2 Interior side elastic loops to hold gear • Interior key holder • Interior ID holder • Made with Invista™ CORDURA® brand 1000 d water resistant nylon fabric up to 3x stronger and lasts up to 5x longer than standard polyester • Reliable and durable YKK® zippers and ITW Nexus® Buckles • Integrated Train Reaction™ luggage connecting system (Patent Pending Ser#12/348,857). Dimensions: 22.5. Weight: 13.2 Lbs. Limited lifetime warranty optional 5-Year warranty upgrade.........P/N 13-14968 ..................$999.00

Embroidery ..................P/N 13-14972 ..........$20.00

NQA 5 Year Warranty ..........P/N 13-14973 ..........$149.00

**SCHEDENEN BAGGAGE FLIGHT KIT ENSEMBLE**
The finest 3-piece flight crew luggage ensemble in the world. Manufactured in the USA using the finest materials and hardware available. Our ensemble is taller with a more slender profile (similar to that of a beverage cart) that allows you to slip down aisles of any aircraft to the flight deck with ease. Black.

FK (Flight Kit): • 12”H x 14”W x 8”D • Ample storage for headset, flashlight, water bottle and gear • Removable padded shoulder pad • Two removable mesh clothing organizers • Interior horizontal clothing divider • Mesh zippered interior accessory pocket • One outside zippered pocket • Auxiliary side handle • Made with Invista™ CORDURA® brand 1000 d water resistant nylon fabric up to 3x stronger and lasts up to 5x longer than standard polyester • Reliable and durable YKK® zippers and ITW Nexus® Buckles • Integrated Train Reaction™ luggage connecting system (Patent Pending Ser#12/348,857). Dimensions: 22.5. Weight: 13.2 Lbs. Limited lifetime warranty optional 5-Year NQA warranty upgrade.........P/N 13-14970 ..................$529.00

Embroidery ..................P/N 13-14972 ..........$20.00

NQA 5 Year Warranty ..........P/N 13-14973 ..........$149.00

**WEEKENDER COMBO FLIGHT BAG**
The swing hook for the adjustable shoulder strap is made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. This bag is made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellant taffeta. Grey..........................P/N 13-11385 ..................$92.75

Black..........................P/N 13-01434 ..................$88.90

**NORAL EXTRA PADDED HELMET BAG**
The swing hook for the adjustable shoulder strap is made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. This bag is made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellant taffeta. Grey..........................P/N 13-11382 ..................$126.75

Black..........................P/N 13-00262 ..................$115.75

**CFI/IFR PILOT FLIGHT BAG**
This bag has two side pockets equipped for large sized headphones. One of these side pouches has a flap pocket with a zipper closure to store pens, flashlight, ID card and/or license etc. Inside the main compartment is two removable pouches for GPS/Transceiver. The dimension of main compartment is H11” x W14.5” x G10”. In the front of the bag is a large open pocket for easy access. The bag has two open pockets. Has two dividers in the main compartment that can be adjusted to a different position and can be removed if desired. Size: 11” x 23” x 12”

Grey..........................P/N 13-00186 ..................$202.95

Black..........................P/N 13-11375 ..................$212.95

**BALLISTIC NYLON FLIGHT CASE 18”**
Many RJ pilots requested a flight case design to fit the RJ cockpit. Using input from RJ pilots, CrewGear® created an RJ specific flight case. It has been flight tested by RJ line pilots who rated it an A+. Outside dimensions: 18.75” x 14.25” x 8.75” Color: Black. Fits most RJ flight case compartments........P/N 13-11599 ..........$114.95

**HARDCASE CARBON FIBER BRIEFCASE**
Large-capacity attaché. Styled in sleek carbon fiber frame. Patented Right-Side-Up feature prevents accidental upside-down opening. Accordion-style legal size portfolios and multiple compartments for all your pilot essentials. Secure combination lock. Body Dimensions: 18.2” x 12.7” x 5.2”. Overall Dimensions: 18.2” x 12.7” x 5.2”. ..........P/N 13-18537 ..............$797.00

**ROLLING BALISTIC NYLON FLIGHT CASE**
Now roll your way through airports, crew parking lot, and down those eternally long concourses easily with CrewGear®s Rolling Ballistic Nylon flight case. This flight case is loaded with unique features. Best of all, IT ROLLS! Color: Black. Inside dimensions: 18” x 13 1/2” x 8”. Outside dimensions: 19 1/2” x 10 1/2”. ..........P/N 14-00831 ..........$234.95

**ULTIMATE “MULTI-TASKER” FLIGHT BAG PLUS**
It’s a Flight Case, an Overnight Bag, a Brief Case and Computer Bag all in one! Proudly designed by CrewGear®, this bag will accommodate a 2” JEP binder, pilot headset and all related work gear. There is a padded compartment for your Laptop Computer (14” or 15”) Net Book or iPad. The clothing compartment is perfectly sized for one pair of slacks, one shirt, and all your undergarments. The file-folder compartment is perfectly sized to hold documents, magazines and newspapers. That’s not all; this bag also comes with a toiletry pouch, and a shock-absorbing shoulder strap. Weight: 5.15 lbs. (Empty) 6.10 lbs. (w/Accessories). Exterior Dimensions: 18” x 13.5” x 9.5” ..........P/N 13-11598 ..........$168.75

Prices Subject to Change Without Notice
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SCULLY AEROSQUADRON LEATHER DUFFLE BAG
2 Zip Carry-On lambskin duffle bag with Exterior zip pocket. This bag has two roomy center zip compartments. One compartment includes garment straps and the other compartment includes pockets for cell phone and pens. 2 roomy center zip compartments.
Removable and adjustable shoulder strap w/faux shearling pad. Cotton lining shows schematics of aircrafts. Color: Walnut. 23” Width 13.5” Height x 6.5” Depth.................P/N 13-18001.......$239.95

SCULLY AEROSQUADRON MESSENGER BRIEF BAG
Lambskin messenger brief bag for laptop. This bag comes with a front outer zip pocket under flap and a single gusset inside zip pocket in back and small open pockets in front...........P/N 13-18002.......$149.85

SCULLY AEROSQUADRON LEATHER TRAVEL KIT
Leather travel kit with exterior dual zip entry compartment. It has a roomy main compartment w/open pockets to hold travel bottles, toothbrush, etc. Removeable zip mesh pocket. Elastic loop for brush. Rear zip compartment includes hanger. 12.25” Length x 7.5” Height x 4” Width. P/N 13-18004.........$83.85

ASA AIRCLASSICS FLIGHT BAG PRO
1000D Nylon for extreme durability and gear protection. Large, zippered side pockets. Unique detachable chart wallet. A zippered, mesh interior pocket. Smaller mesh compartment on the outside of the bag. Black with the ASA wings logo tastefully silver-embroidered on the top. Dimensions: 20”L x 10”H x 8”W. P/N 11-08804.........$99.95

GATOR WATERPROOF AVIATION CASES
Gator Cases new line of water proof, dust proof, crush proof, injection molded cases feature impact-proof lightweight NK-7 resin and have a ATA-300 flight safe rating. Every case has a Auto Pressure equalizer valve with a Mil-Std-810F Immersion test certification. Available in both NO FOAM and DICED FOAM version, all Gator Injection Molded Cases have Soft Grip carry handles, and unique easy release Powerclaw(TM) latching system.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Item Number</th>
<th>Description</th>
<th>Interior Dimensions</th>
<th>Price</th>
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<td>GU-1510-06-WPNF</td>
<td>Black Waterproof injection molded case, with NO FOAM</td>
<td>15” x 10.5” x 6.2”</td>
<td>$84.99</td>
</tr>
<tr>
<td>13-17867</td>
<td>GU-1711-06-WPNF</td>
<td>Black Waterproof injection molded case, with NO FOAM</td>
<td>17” x 11.8” x 8.4”</td>
<td>$94.99</td>
</tr>
<tr>
<td>13-17868</td>
<td>GU-1813-06-WPNF</td>
<td>Black Waterproof injection molded case, with NO FOAM</td>
<td>18” x 13” x 6.9”</td>
<td>$109.99</td>
</tr>
<tr>
<td>13-17869</td>
<td>GU-2015-06-WPNF</td>
<td>Black Waterproof injection molded case, with pullout handle and inline wheels and NO FOAM</td>
<td>20.5” x 11.3” x 7.5”</td>
<td>$139.99</td>
</tr>
<tr>
<td>13-17870</td>
<td>GU-2014-08-WPNF</td>
<td>Black Waterproof injection molded case, with NO FOAM</td>
<td>20” x 14” x 8”</td>
<td>$114.99</td>
</tr>
<tr>
<td>13-17871</td>
<td>GU-2015-10-WPNF</td>
<td>Black Waterproof injection molded case, with pullout handle and inline wheels and NO FOAM</td>
<td>20.5” x 15.5” x 10.1”</td>
<td>$139.99</td>
</tr>
<tr>
<td>13-17872</td>
<td>GU-2217-08-WPNF</td>
<td>Black Waterproof injection molded case, with NO FOAM</td>
<td>22” x 17” x 8.2”</td>
<td>$144.99</td>
</tr>
<tr>
<td>13-17873</td>
<td>GU-2217-13-WPNF</td>
<td>Black Waterproof injection molded case, with pullout handle and inline wheels and NO FOAM</td>
<td>22” x 17” x 12.9”</td>
<td>$229.99</td>
</tr>
<tr>
<td>13-17874</td>
<td>GU-1510-06-WPFD</td>
<td>Black waterproof injection molded case with DICED FOAM</td>
<td>15” x 10.5” x 6.2”</td>
<td>$94.99</td>
</tr>
<tr>
<td>13-17875</td>
<td>GU-1711-06-WPFD</td>
<td>Black waterproof injection molded case with DICED FOAM</td>
<td>17” x 11.8” x 8.4”</td>
<td>$124.99</td>
</tr>
<tr>
<td>13-17876</td>
<td>GU-1813-06-WPFD</td>
<td>Black waterproof injection molded case with DICED FOAM</td>
<td>18” x 13” x 6.9”</td>
<td>$149.99</td>
</tr>
<tr>
<td>13-17877</td>
<td>GU-2015-07-WPFD</td>
<td>Black waterproof injection molded case with pullout handle, inline wheels and DICED FOAM</td>
<td>20.5” x 11.3” x 7.5”</td>
<td>$179.99</td>
</tr>
<tr>
<td>13-17878</td>
<td>GU-2014-08-WPFD</td>
<td>Black waterproof injection molded case with DICED FOAM</td>
<td>20” x 14” x 8”</td>
<td>$159.99</td>
</tr>
<tr>
<td>13-17879</td>
<td>GU-2015-10-WPFD</td>
<td>Black waterproof injection molded case with pullout handle, inline wheels, and DICED FOAM</td>
<td>20.5” x 15.5” x 10.1”</td>
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</tr>
<tr>
<td>13-17880</td>
<td>GU-2217-08-WPFD</td>
<td>Black waterproof injection molded case with DICED FOAM</td>
<td>22” x 17” x 8.2”</td>
<td>$194.99</td>
</tr>
<tr>
<td>13-17881</td>
<td>GU-2217-13-WPFD</td>
<td>Black waterproof injection molded case with pullout handle, inline wheels, and DICED FOAM</td>
<td>22” x 17” x 12.9”</td>
<td>$279.99</td>
</tr>
<tr>
<td>13-17882</td>
<td>GX-20</td>
<td>Cargo Case w/ Lift-Out Tray, Wheels, Retractable Handle</td>
<td>13.5”X12.75”X14”</td>
<td>$179.99</td>
</tr>
<tr>
<td>13-17883</td>
<td>GxX-22</td>
<td>Cargo Case w/ Lift-Out Tray, Wheels, Retractable Handle</td>
<td>12”X24”X30”</td>
<td>$269.99</td>
</tr>
</tbody>
</table>
Backsaver Foam

Backsaver foam is temperature sensitive, softening when it comes in contact with a warm surface; thus, in a seat cushion, the foam softens and conforms to the persons body. This provides even pressure distribution and unoccluded blood circulation, significantly reducing discomfort, even over long periods. In addition, Backsaver foam has excellent energy absorption properties, which have made it excellent for use in the U.S. space shuttle program and in military aircraft and helicopters. Pilots find that Backsaver cushions reduce their discomfort and fatigue, even after missions of 8 hours or more. Aircraft Spruce now makes Backsaver foam available for the homebuilt and general aviation market.

CONFOUR SEAT CUSHION

Tempoform is the conforming foam cushion that was developed for the "Astronaut's Couch" back in the Apollo space program. Seat foam has the capability of absorbing a tremendous amount of impact shock compared to common poly-foam and it is flame resistant. It is a superior product that will give your seats enduring comfort that you never thought possible. It is not a soft foam and it is flame resistant. It is an excellent product that will give your seat a more reclined appearance and is guaranteed for performance and workmanship. Weight: 8 oz. Open Dimensions: 10½"L x 15"W x ½"H. Folded Dimensions: 10½"L x 7½"W x 1½"H. P/N 13-05827...

SKWOOSH™ PILOT SEAT

SKWOOSH™ fluidized gel cushions elieve pressure on the "sitz" bones to help maintain circulation, and reduce numbness and lower back discomfort caused by prolonged sitting. The non-skid bottom makes SKWOOSH™ stay put, ensuring no movement during use while the low profile (½") allows for normal seat position. SKWOOSH™ cushions are made in the USA and are guaranteed for performance and workmanship. Weight: 8 oz. Open Dimensions: 10½"L x 15"W x ½"H. Folded Dimensions: 10½"L x 7½"W x 1½"H. P/N 13-10284...

SKWOOSH™ PRO TRAVELER

SKWOOSH™ fluidized gel cushions relieve pressure on the "sitz" bones to help maintain circulation, and reduce numbness and lower back discomfort caused by prolonged sitting. Non-skid bottom and is maintenance free. SKWOOSH™ cushions are made in the USA and are guaranteed for performance and workmanship. Weight: 8 oz. Open Dimensions: 10½"L x 15"W x ½"H. Folded Dimensions: 10½"L x 7½"W x 1½"H. P/N 13-10284...

SKWOOSH EZ SWIVEL CUSHION

The SKWOOSH™ All Purpose with EZ Swivel Capability is lightweight, folds for portability, is fire retardant and meets FAA FAR requirements. For added comfort, the foam inside meets FAA FAR regulations for fire materials. A strap is present for easy access and operation of a mobile device. The Tough-Wedge™ can be used for back-seat applications by inserted into the pockets located on the back of the front seats. Included diamond adapter attaches to a variety of RAM mounts. Length: 13.25". Height: 8.25". Depth: 1". Inside Wedge Depth: 0.375" - 0.875". P/N 11-14362...

NORAL SEATS

This cushion is made with the finest materials available. It features a high back with a Lumbar Support for added comfort. The foam inside meets FAA FAR regarding fire materials. A strap is present for easy carrying and securing the cushion to the back of the seat when installed. Available in 2 sizes marked Type 'A' & Type 'B'. Label 'A' is intended for larger aircraft such as Cessna 172, 182, 210, or Cardinal. Label 'B' is intended for smaller aircraft such as Cessna 150, 152, Piper Cherokee or Warner.

BLACK MAX COMFORT SEAT

• 18" Wide X 19" Deep X 26" High
• 6061-T6 Aluminum Base and tubing.
• Assembled with AN Hardware. Material made from durable cordura nylon
• Includes a large storage pocket in the back.
• Additional storage between pan and seat.
• pivots down to make it easier to get behind the seat on a tandem... P/N 10-05544...

INFLATABLE LUMBAR SUPPORT

This inflatable air pillow can be installed just under the seat material and will give you the customized support just where you need it. A convenient palm size pump and a release valve control the firmness of the lumbar support. The In-Flight Back Support is made of a heavy duty self-extinguishing neoprene rubber, specially designed to pass FAR 23.853 flame-test requirements.

Quantity One ................................................. P/N 13-01501 ................................................. $49.75
Quantity Two ................................................. P/N 13-01821 ................................................. $83.75

PRIFLIGHT SEATS

Sitz higher, and sit softer on 2 or 3 inches of high-density foam covered with durable, "breathable" Cordura. Made of USAF specifications, with segmented backrest. Really makes a difference on a long flight. Also available: 3 or 4-inch thick child's cushion that finally lets kids see outside, keeps them interested as well as comfortable during long trips. Both seat and cushion are available in either Air Force blue or red. Add B (blue), or R (red) after part number to indicate color.

Dimensions for all Seats: Back - Width - 16" Height - 17" Seat: Width - 15" Depth - 12"

Description Part No. Price
Blue 2" Booster seat w/ 1-1/2" back 13-02916 $84.75
Red 2" Booster seat w/ 1-1/2" back 13-02917 $86.75
Blue 3" Booster seat w/ 1-1/2" back 13-02918 $79.95
Red 3" Booster seat w/ 1-1/2" back 13-02919 $84.75
Blue 3" Booster seat w/ 3" back 13-02920 $83.95
Blue 4" Booster seat w/ 1-1/2" back 13-31855 $83.95
Red 3" Booster seat w/ 3" back 13-02922 $83.95
Child's Blue 3" Booster cushion 13-02923 $35.65
Child's Red 3" Booster cushion 13-02924 $37.95
Child's Blue 4" Booster cushion 13-02925 $36.80
Child's Red 4" Booster cushion 13-02926 $35.75
Blue - 4" Seat x 3" back 13-31845 $83.95
Red - 4" Seat x 3" back 13-31850 $79.95
Red - 4" x 1-1/2" back 13-31860 $83.95
Blue - Cut for flight stick 4" Seat w/ 1-1/2" back 13-12077 $84.75
Oregon Aero® VK SmartCushion™ Systems for Experimental and Homebuilt aircraft offer maximum-comfort seating designed for your particular aircraft. The VK SmartCushion™ System shifts the hips, pelvis and back into a comfortable sitting position. At the same time, the seat cushions support occupants over as large an area of the seat surface as possible, preventing painful “hot spots.” Pilot and passengers fly in comfort-no matter how long the flight. Simply put, Oregon Aero® offers the most comfortable seat in the industry.

*All Oregon Aero® Seating Systems are 100% Satisfaction Guaranteed.*

### OREGON AERO® SEAT CUSHION GLASAIR I, II, III

GlasAir I (Pilot), II, III Left or Right Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>GlasAir I Pilot Left or Right Cushion Set</td>
<td>13-07474</td>
<td>$357.95</td>
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<tr>
<td>GlasAir II or III Left or Right Cushion Set</td>
<td>13-07475</td>
<td>$408.00</td>
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### OREGON AERO® SEAT CUSHION GLASTAR

Glastar Left & Right Front Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glastar Left Front Cushion Set</td>
<td>13-07476</td>
<td>$453.95</td>
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<tr>
<td>Glastar Right Front Cushion Set</td>
<td>13-07477</td>
<td>$453.95</td>
</tr>
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</table>

### OREGON AERO® SEAT CUSHION LANCAIR 320/360/IV PILOT/LEGACY

Lancair 320/360/IV Pilot/Legacy Left or Right Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lancair 320/360 Left Front Cushion Set</td>
<td>13-07478</td>
<td>$550.00</td>
</tr>
<tr>
<td>Lancair 320/360 Right Front Cushion Set</td>
<td>13-07479</td>
<td>$550.00</td>
</tr>
<tr>
<td>Lancair IV Pilot or Co-Pilot Cushion Set</td>
<td>13-07480</td>
<td>$321.95</td>
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<tr>
<td>Lancair Legacy Left or Right Cushion Set</td>
<td>13-07481</td>
<td>$637.00</td>
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### OREGON AERO® SEAT CUSHION RV-4

RV-4 Front & Rear Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>RV-4 Front Cushion Set</td>
<td>13-07482</td>
<td>$358.00</td>
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<tr>
<td>RV-4 Rear Cushion Set</td>
<td>13-07483</td>
<td>$429.95</td>
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### OREGON AERO® SEAT CUSHION RV-6

RV-6 Left or Right Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV-6 Left or Right Cushion Set 2”</td>
<td>13-07484</td>
<td>$359.00</td>
</tr>
<tr>
<td>RV-6 Left or Right Cushion Set 3”</td>
<td>13-07485</td>
<td>$321.95</td>
</tr>
</tbody>
</table>

### OREGON AERO® SEAT CUSHION RV-7

RV-7 Pilot or Co-Pilot Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV-7 Front Cushion Set</td>
<td>13-07487</td>
<td>$398.95</td>
</tr>
<tr>
<td>RV-7 Rear Cushion Set</td>
<td>13-07488</td>
<td>$648.00</td>
</tr>
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</table>

### OREGON AERO® SEAT CUSHION RV-8

RV-8 Front and Rear Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV-8 Front Cushion Set</td>
<td>13-07489</td>
<td>$604.00</td>
</tr>
</tbody>
</table>

### 1 INCH PORTABLE UNIVERSAL SOFTEAT® CUSHION SYSTEMS

Shifts your hips, pelvis and back into the proper, pain-free position. Helps minimize lower back pain from prolonged sitting. Eliminates pain from “hot spots.” Can raise or move you forward. Zippered and interchangeable parts. 100% satisfaction guaranteed.

Two anchor options available: (1) Non-Skid Strips (most popular option) Two 1” wide x 10” long strips of black webbing with black non-skid rubber are hand sewn to the bottom of the cushion. (2) Straps - Best option if using Cushion Base for one purpose, such as in an aircraft. One-inch straps with adjustable buckle are hand sewn from side-to-side. Two hook and loop fasteners are hand sewn to the back. 1” Cushion is the most commonly used thickness. 1/2” Cushion is available for individuals with limited headroom. 2” Cushion available for individuals who need raised up. See www.aircraftspruce.com for additional sizes.

<table>
<thead>
<tr>
<th>Color</th>
<th>Non-Skid Strips</th>
<th>Straps</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burgundy</td>
<td>13-08611-1</td>
<td>13-08614-1</td>
<td>$224.95</td>
</tr>
<tr>
<td>Blue</td>
<td>13-08611-2</td>
<td>13-08614-2</td>
<td>$224.95</td>
</tr>
<tr>
<td>Teal</td>
<td>13-08611-3</td>
<td>13-08614-3</td>
<td>$224.95</td>
</tr>
<tr>
<td>Beige</td>
<td>13-08611-4</td>
<td>13-08614-4</td>
<td>$225.95</td>
</tr>
<tr>
<td>Gray</td>
<td>13-08611-5</td>
<td>13-08614-5</td>
<td>$224.95</td>
</tr>
<tr>
<td>Charcoal</td>
<td>13-08611-6</td>
<td>13-08614-6</td>
<td>$224.95</td>
</tr>
<tr>
<td>Black</td>
<td>13-08611-7</td>
<td>13-08614-7</td>
<td>$224.95</td>
</tr>
</tbody>
</table>

### OREGON AERO® SEAT CUSHION VELOCITY

Velocity Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity Cushion Set</td>
<td>13-07490</td>
<td>$352.95</td>
</tr>
</tbody>
</table>

### OREGON AERO® SEAT CUSHION ZENITH/ZENAIR

Zenith/Zenair Left and Right Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Un-upholstered CH701 Left cushion</td>
<td>13-07491</td>
<td>$298.00</td>
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<tr>
<td>Un-upholstered CH701 Right cushion</td>
<td>13-07492</td>
<td>$298.00</td>
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<tr>
<td>Un-upholstered CH601 Left cushion</td>
<td>13-07493</td>
<td>$301.95</td>
</tr>
<tr>
<td>Un-upholstered CH601 Right cushion</td>
<td>13-07494</td>
<td>$301.95</td>
</tr>
</tbody>
</table>

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM 975
SEAT COVERS – JET SHADES

SUPERLAMB SHEEPSKIN SEAT COVERS: NATURES OWN THERMOSTAT

The magic of 100% genuine sheepskin is quite simply that it will keep you cool in summer and warm in winter. No other natural or man-made fiber possesses the qualities of sheepskin. Whatever the temperature in your cockpit, sheepskin covers remain almost identical to the temperature. Additionally, each hollow fiber absorbs up to 30% of its own weight in moisture. It keeps you dry, yet never feels wet itself. You avoid the heat and clamminess of vinyl, or even leather, because there’s free flow of air between you and seat. Every cover is hand-made by master craftsmen from the finest chrome-tanned pelts, in colors to match or coordinate with any interior. Sold in pairs only, in 11 colors (request color samples when ordering). FAA Approved.


Sheepskin Samples - Order a sample then return it for a full credit after you have selected a color and ordered your seat cover. ........................................ P/N 13-05553 ........................................ $513.00

COLORS AVAILABLE

- Mushroom
- Latte
- Coffee
- Navy
- Burgundy
- Silver
- Steel
- Charcoal
- Black
- Palomino
- Tawney
- Sand
- Cream
- White

JET SHADES™ TINTED WINDOW PANELS

Unlike foil aircraft sun shades, Jet Shades are removable tinted window panels and visors designed to block harmful UV and sun glare in your aircraft cockpit both DURING FLIGHT & WHILE PARKED!

Inspired by an engineer and private pilot who was always hot in the cockpit and wrestled with sun glare on him and the instrument panel in the hot Florida sun, Jet Shades solve the problem of hot, sunny cockpits that are uncomfortable for both pilot and passengers.

- Blocks 99.9% harmful UV (See JAMA article on harmful effects of UV radiation for pilots)
- Provides instant relief from solar energy
- Reduces glare by 70% for better contrast and visibility on instrument panels, smartphones and tablet devices.
- Minimizes eye strain and pilot fatigue caused by prolonged sun exposure
- Maintains pilot & passenger comfort during high sun glare flights
- Effortless removal with patented friction-tab design
- Protects aircraft interior from cracking and discoloration while parked
- Enhances ramp appeal by giving your aircraft a “tinted windows” look
- Eliminates the need for removing and storing foil sun shades before and after flights

Specifications:
- Made with optical quality polycarbonate for clearest visibility
- Blocks 72% visible light/ 99.9% UV/ 79% infrared light/ 44% solar energy
- Provides 70% glare reduction
- Lightweight, high impact strength, virtually unbreakable
- Highly engineered product stops glare while allowing enough light in for easy navigation
- Patent-pending design
- Made in the USA

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cirrus Solution SR-22/SR-22T/SR-GTS22 G3 - G6</td>
<td>13-22073</td>
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<tr>
<td>Cirrus Cockpit Solution SR-22/SR-22T/SR-GTS22 G3 - G6</td>
<td>13-22074</td>
<td>$1,300.00</td>
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<tr>
<td>Cirrus Rear Skylight Shade G2-G6 Premium</td>
<td>13-22075</td>
<td>$400.00</td>
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<tr>
<td>Cirrus Upper Windshield Shade Premium</td>
<td>13-22082</td>
<td>$427.00</td>
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<tr>
<td>Total Columbia Solution 400/TTX</td>
<td>13-22083</td>
<td>$1,196.00</td>
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<tr>
<td>Total Columbia Solution 400/TTX Upgrade Rear Window to Premium</td>
<td>13-22084</td>
<td>$400.00</td>
</tr>
<tr>
<td>Columbia Cockpit Solution 400/TTX</td>
<td>13-22085</td>
<td>$800.00</td>
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<tr>
<td>Total Diamond Da 40 Solution</td>
<td>13-22086</td>
<td>$1,595.00</td>
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<td>Total Diamond Da 40 Solution Upgrade</td>
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<td>Diamond DA 40 Canopy Solution</td>
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<tr>
<td>Diamond DA 40 Canopy Solution Upgrade</td>
<td>13-22089</td>
<td>$200.00</td>
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<tr>
<td>Eclipse 500/550 Cockpit Solution</td>
<td>13-22090</td>
<td>$799.00</td>
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<tr>
<td>Eclipse 500/550 Cockpit Solution Upgrade</td>
<td>13-22091</td>
<td>$302.00</td>
</tr>
</tbody>
</table>
ROSEN THIRD AXIS UPDATE KIT: This update kit will fit any Rosen system that does not come standard with third axis option (Piper systems, for example, come with third axis standard).

Don’t fly blind! Give yourself and your passengers that extra margin of safety. These are transparent sun visors which rotate and extend to offer complete cockpit protection form the sun. The oversize, tinted lens filters out 95% of the ultraviolet rays, reduces glare by 94% and heat by 86%. Distortion free. Fully STC’d and PMA’d. The system, which includes pilot and co-pilot visors, installs in minutes (exceptions: Cessna non-pressurized 210 requires 1-1/2 hours, Cessna 152 requires rivnut installation by an A&P).

Attention: Products noted in “Application Guide” with an (*) are sold in pairs.

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEECH - Bonanza/Baron, standard</td>
<td>7568*</td>
<td>$406.00</td>
</tr>
<tr>
<td>Bonanza/Baron, 2- Axis replacement lens</td>
<td>13-18718</td>
<td>$81.75</td>
</tr>
<tr>
<td>Bonanza/Baron, 3rd Axis option</td>
<td>7311*</td>
<td>$477.00</td>
</tr>
<tr>
<td>Duke</td>
<td>7738*</td>
<td>$392.00</td>
</tr>
<tr>
<td>King Air</td>
<td>13-01927*</td>
<td>$477.00</td>
</tr>
<tr>
<td>King Air 200 Monorail with visors (not for A200)</td>
<td>13-12787</td>
<td>$1,300.00</td>
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<tr>
<td>MOONEY - 1968 and later models original visors mounted on right or left side (not on center post)</td>
<td>7762*</td>
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<tr>
<td>PIPER - Comanche, All models, standard</td>
<td>7809*</td>
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<td>Comanche, Third Axis option</td>
<td>7924*</td>
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<tr>
<td>Aerostar Monorail System</td>
<td>13-15027</td>
<td>$1,272.00</td>
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<tr>
<td>Cheyenne Monorail system w/visors</td>
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<td>Malibu Mirage Monorail System</td>
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<td>Malibu Meridian Monorail System</td>
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<td>Arapaho Comanche</td>
<td>13-07454*</td>
<td>$472.00</td>
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<td>Cherokee, Center mount</td>
<td>13-01315*</td>
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<td>Cherokee, swivel stud</td>
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<td>Seneca</td>
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<td>CESSNA 1980 and later - 170’s to 206’s (except 177’s) Center Mount</td>
<td>7629*</td>
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<td>All 150’s and 152’s, Prior to 1980 - 170’s to 206’s (except 177’s) Side Mount</td>
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<td>Cessna 2- Axis replacement lens</td>
<td>13-18343</td>
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<td>210’s w/o air cond. (Older 210’s, see above)</td>
<td>7152*</td>
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<td>P210’s and 210’s w/air conditioning</td>
<td>7426*</td>
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<td>177’s</td>
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<td>T303</td>
<td>13-01928*</td>
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<td>310s &amp; 340s, special order to replace units with ball-joint cover style visor only (shown)</td>
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<td>337</td>
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<td>320</td>
<td>13-01311*</td>
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<td>350/400</td>
<td>13-06044*</td>
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</tbody>
</table>

Homebuilders Universal systems are specific order & built to your specs

ROSEN RED KNOB KIT

Red Knob Kit 99-701-KIT includes Red tensioning knob (99-701), spring (B-19679), and washer (90295A110).

Notes: Parts not sold separately, only as a kit. The kit is compatible with any of Rosen Sunvisor Systems’ New Swinging Arm (NSA) systems.

P/N 13-04014.................. $82.75

ROSEN SUN VISOR SYSTEM

ATTENTION: Products noted in “Application Guide” with an (*) are sold in pairs.

FOC: parts not sold separately, only as a kit. The kit is compatible with any of Rosen Sunvisor Systems’ New Swinging Arm (NSA) systems.

P/N 13-04014.................. $82.75

www.aircraftspruce.com

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Prices Subject to Change Without Notice
SUN VISORS

KENNON SUPER SUN SHIELDS

The most durable sun shield on the market has a clear polyester coating to protect the Plexiglas windows. Heat can permanently damage the interior and avionics in your aircraft. The secret is a material with two surfaces of aluminum separated by trapped air. This combination reflects 97% of radiant heat, an insulation value of R-9 equivalent to two inches of fiberglass. Kennon Extra Firm shields fit snugly, and maintain their shape for a tight fit. They install in no time, and roll up for storage in compact, water-repellent bags. Weight is 1 lb. Available for most aircraft, specify year, make and model. For custom shields, specify exact size of windshield & windows. Also available for cars. Fabric edging insures snug fit & durability.

Developed for the US Military and used on most aircraft deployed to the desert where temperatures often exceed 115F degrees.

General Aviation: Single engine piston (ie Cessna 172, Piper PA-28, etc) Business: Twin turboprops, corporate jets (ie Beech King Air, Cessna Citation, etc)

General Aviation: P/N 7672 Price: $199.95
Business Class: P/N 13-01071 Price: $248.95

SUN-FOIL SUNSCREENS

Sun-Foil aircraft sunscreens protect the Aircraft Interior - 97% of radiant heat is reflected, and UV protection prevents cracking and discoloration. The Gold Standard Since 1989!

The Sun-Foil Difference
Protects Aircraft Interior - 97% of radiant heat is reflected, and UV protection prevents cracking and discoloration
Keeps Cockpit Cooler - Drop cockpit temperatures as much as 68 degrees compared to an unprotected cockpit
Prevents Heat Related Avionics Failure - Protects sensitive components from heat and enhances pilot comfort
Integrated Protection - Our exclusive layer of hand-rolled gold or silver Mylar laminate provides additional rigidity and durability. Strategically placed suction cups combine with a friction fit to ensure your Sun-Foils are always in place, protecting your expensive investment.
Secures Avionics Panel - Complete screen sets are an effective deterrent to common avionics theft
Built-In Storage - Sun-Foils roll easily and are secured with an attached Velcro strap. They are easily stored in a custom-fit bag (included with each set) with a personalized ID tag.
Lifetime Workmanship Guarantee - Sun-Foil stands behind their products. Sun-Foils will be replaced at no charge in the event of damage due to defects in materials or workmanship. Suction cups are replaced at no charge throughout the lifespan of your Sun-Foils, at no charge.

Features:
- Strategically placed suction cups that work with a friction fit to ensure Sun-Foils always stay in place.
- Double stitched protective border
- Military grade double layer bubble insulation
- Exclusive added layer of highly polished gold or silver Mylar enhances appearance and reflectivity

Front Only: P/N 13-22381 Price: $175.00
Cockpit Set: P/N 13-22382 Price: $285.00
Full Set: P/N 13-22383 Price: $285.00

DIM-IT MOVEABLE VISOR

You can keep moving your head to stay in the shade of your visor, or you can get a DIM-IT visor and move it to where you want it. It’s a 6”x12” sheet of tinted Lexan that can be positioned on any window in the cockpit by means of the attached vinyl suction cup. (An optional self-adhesive adapter plate lets you attach it to porous surfaces as well.) Completely transparent and distortion-free.

DIM-IT Moveable Visor: P/N 7172 Price: $7.95
Adapter (for porous surfaces): P/N 7113 Price: $4.65

MINI DIM-IT

Dimensions the intensity of direct sunlight, glare, and reflections. This little visor is made of high strength tinted Lexan and is distortion-free. Place the suction cup on window/ windshield and press.

P/N 13-01758 Price: $6.95

ADJUSTAVISOR

The Adjustvisor, a clip-on unit that virtually doubles the effective range of stock visors, adds contrast, and reduces glare and fatigue. Available with smoke polycarbonate lens with UV protection. There’s also a suction cup model for aircraft with canopies. The cups are strong enough and the visor assemblies light enough that they stay attached to any window through most any maneuver.

Size: 3.5” x 12”

Clip-on (smoke): P/N 13-03263 Price: $134.75
Suction (smoke): P/N 13-03261 Price: $119.75

ROSEN VANS RV 6-7-9 ARC SUNVISOR

The Van’s RV 6-7-9 Sliding Canopy ARC Sunvisor System design protects Van’s RV 6-7-9 aircraft owners flexible, multi-axis sun attenuation, glare reduction and pilot comfort during standard cockpit flight operations.

Description Part No. Price
Rosen Vans Rv 6-7-9 Arc Sunvisor Assembly 13-16034 Price: $438.00
Rosen Vans Rv 6-7-9 Arc Pilot Replacement Lens 13-16035 Price: $74.75
Rosen Vans Rv 6-7-9 Co-pilot Replacement Lens 13-16038 Price: $74.75

RV-10 SUN VISOR

Blue Sky Sun Visors were specifically designed for the RV-10. The RV-10 visors retain all of the features of those that have been produced for certified aircraft since 2001. The visors provide improved visibility in hazy or cloudy conditions while still being out of the pilot’s view when not in use. In addition to retaining the superior functionality, durability and strength of the original Blue Sky Sun Visor, they provide sun and heat screening, whether coming from the front or side for both pilot and co-pilot. Installation is quick and requires only basic tools and mechanical ability.

P/N 13-07444 Price: $198.00

UNIVERSAL SUNVISOR FOR HOMEBUILT AIRCRAFT

Universal Swivel Mounts - simplify installation into most homebuilt aircraft! Lightweight hardware and optical quality bronze acrylic visor. Designed, and visor tint specified, by eye doctor/pilot Dr. Steven DeGroff, to reduce, high-altitude and ocular media small-particle scatter and enhance vision.

P/N 13-07443 Price: $285.95

ROSEN MONORAIL IPAD / IPAD MINI UNIVERSE MOUNTS

Designed to attach to any Rosen Monorail, the Rosen Universal iPad mount system provides a convenient and adjustable deployment. The large version will accommodate iPads in OtterBox or similar sized cases, while the standard model is delivered with two hook choices to fit all regular-sized cases as well as bare iPads. Note: it will accommodate all size iPads except the new iPad Pro 12.9. Currently it wont open up far enough for the larger Pros. The Mini and Standard models, however, are no problem. Designed to attach to any Rosen monorail. Compact, and fully adjustable. Quick and easy stowage against the headliner.

Large Cases: P/N 13-20666 Price: $226.95
Standard Cases/Bare: P/N 13-20667 Price: $239.95

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Prices Subject to Change Without Notice
RAM MOUNT DARK GREEN SUN VISORS

The precision laser cut cast acrylic 8” x 13” sun visor offers ideal blockage of glare while ensuring no obstruction or distortion of view. The dark green 50% tint is ideal for blocking sun and glare in a variety of applications. The RAM-B-166-326-VIS-G11 includes a 1” ball and complete suction cup mounting kit. The double ball and socket arm with a swivel feature in the center makes adjustment simple and effortless. This mount can be easily configured for left or right handed use as well as pilot and copilot use.

Ball and Suction Cup........................................P/N 11-13584 .............$64.99
1” Ball Only................................................P/N 11-14911 .............$37.49

PIPER SUNVISOR CATCHES

Many Piper aircraft have the same problem. The sun visor catches lose to stability, because the UV effect allows the plastic to become porous. These Piper Sunvisor Catches are made from a blended poly-soft plastic with a UV additive that will prevent UV corrosion. A set contains two pieces with the required plastic rivets. They are available in white and black (used in Piper PA-38 Tomahawk). The set for the Piper Tomahawk contains two extra rivets.

White.......................................................P/N 13-04187 .............$33.85
Black.........................................................P/N 13-04188 .............$33.85

KENNON COWL PLUGS

Kennon cowl plugs are constructed from red Aqualon over 2” thick foam and feature a binding around the outer edge of each plug so there is a thick seal which fits snugly in the cowl. The lip prevents the plugs from slipping inside the opening. A safety strap goes around the prop so if by chance you forget to remove the plugs, the prop will remove them for you. These cowl plugs install easily and comes with their own storage bag. Specify aircraft make, model, & year when ordering. Include aircraft registration number to be printed on plugs at no extra charge.

Single engine plugs......................................P/N 13-14111 .............$150.00

CUSTOM FIT COWL PLUGS

Cowl plugs are tailored to fit popular Cessna single engine aircraft. High visibility yellow closed cell foam will not retain moisture. Printed on one side is “Remove Before Starting Engine”, and the other is blank for the N number. They are joined by a nylon strap with a fluorescent orange “Remove Before Flight” tag. C-172 (1965+)...........................................P/N 13-02626 .............$50.60
C-182 (1972.5 - 1989) ....................................P/N 13-02630 .............$46.50
Universal kit w/square inlets (Sqr blocks you cut to fit) .................................................................P/N 13-02645 ......................$49.95/pr

UNIVERSAL SHADE KIT

Stick it anywhere you need sunlight protection, blocking 80 or 90% of light and 90% UV rays!

Features: The tinted panel is a breathable and nearly indestructible. A window shade that is perfect for every application.

Specifications: This is the standard universal size of 10” X 15.5”

90% Shade Kit with Bag........................................P/N 13-21880 .............$35.95

UNIVERSAL TINT - TRAVELING PLANE KIT

This Universal Kit is the perfect choice for everyone! The shape is a rectangle with rounded edges. 10” X 15.5”. It will stick to any window that you want to protect yourself from the bright sunlight glare, damaging UV rays while blocking out heat. Includes Carrying Kit.

P/N 13-21878 .................................................$49.95

FLEXIBLE COCKPIT SUN SHADES

The CRAZED pilot Sun Shade is a highly portable, easy to store, and easy to use for pilots with only one hand available for placement. Easily conforms to various curvatures of windscreen or side windows. A great lowcost investment to save your interior and panel, without the expense of custom made sunshades! 14.5” x 17” rounded oval shape. Coils plus to a 6” dia. that can be stored in a seat pouch. Secures to any smooth surface (glass, plastic, metal, etc.) with one central suction cup. Easily installed with one hand, and moved quickly. Package contains TWO sun shades and TWO suction cups. Place two sun shades under one suction cup for extra sun protection! ..........P/N 11-13316 .............$7.95

PILOT ARMOR™ GENERAL PURPOSE SUNSHADES

This general purpose sunshade provides "spot relief" on windows of any size. They are easily attached and removed to provide sun and glare protection wherever you need it. Made of commercial grade exterior polyester blended Sun Protection screen that has been treated and sealed with a reflective polymer which gives the fabric its protective features. It is very durable, will not mildew, or fade. Tear and dirt resistant, the fabrics stand up to tough conditions and continue to look fresh for years. It is easily maintained with a mild detergent or a cockpit “wet-nap”.

- Excellent solar protection eliminates up to 86% of the sun's rays, excellent thermal reflective features • Ideal compromise between solar protection and light transparency • Provides significant external visibility • For use on the ground or in the air • Will not damage acrylic windows.

<table>
<thead>
<tr>
<th>Size</th>
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<tbody>
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<td>16” x 9”</td>
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<tr>
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<td>16” x 16”</td>
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BONANZA/BARON ADJUSTABLE SUN VISORS

Aerospace construction means they work flawlessly, plus they are very adjustable. Rotate them up and down, turn to cover the side windows and slide them in and out for coverage where you want.

P/N 05-05434 .............$432.00

SUNGUARD SLAP ON SUN VISOR

Sunguard is a transparent polymer, that will statically attach to any smooth surface (windows in cars, boats, aircraft, RV’s and homes). It is available in “olive green” tinted shade and absorbs approximately 78% of the light spectrum.

6X9........................P/N 13-08668 .............$5.70
9X12........................P/N 13-08667 .............$9.50

JUST PLANE TINT SLAP SHADE

This is a full Block Off Kit, it is the same size as the Universal Kit, made to be put anywhere and block the sunlight 100%, includes carrying case.

15” X 10.5”

Grey..................P/N 13-22143-2 ............$35.70
Tan.....................P/N 13-22143-1 ............$35.70
Black..................P/N 13-22143-3 ............$35.70

BRUCES INSULATED HANGAR BLANKET

Excellent protection against the cold when used indoors with an engine warming heat source.

The Original and World’s Finest Aircraft Covers for Airplanes, Jets, Helicopters, Gliders and QEC Off-link Jet Engines.

The Insulated Hangar Blanket, Interior use for 2-place high wing aircraft.

This item comes in red only.

Protect your airplane’s engine inside a cold winter hangar with reasonably priced Insulated Hangar Blankets.

This general purpose sunshade provide ‘spot relief’ on windows of any size. They are easily attached and removed to provide sun and glare protection wherever you need it. Made of commercial grade exterior polyester blended Sun Protection screen that has been treated and sealed with a reflective polymer which gives the fabric its protective features. It is very durable, will not mildew, or fade. Tear and dirt resistant, the fabrics stand up to tough conditions and continue to look fresh for years. It is easily maintained with a mild detergent or a cockpit “wet-nap”.

- Excellent solar protection eliminates up to 86% of the sun’s rays, excellent thermal reflective features • Ideal compromise between solar protection and light transparency • Provides significant external visibility • For use on the ground or in the air • Will not damage acrylic windows.

Prices Subject to Change Without Notice

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BRUCE'S CUSTOM CANOPY COVERS

Canopy Covers help reduce damage to your airplane’s upholstery and avionics caused by excessive heat, and they can eliminate problems caused by leaking door and window seals. They keep the windshield and window surfaces clean and help prevent vandalism and theft. When requested, it is also sometimes possible to design Canopy covers that can attach to the aircraft fuselage using pop-riveted snap-heads at the rear and snap-head screws on the engine cowl. The Canopy Cover is custom sewn and the colors of the cover can be imprinted on the cover for an additional charge. A duffle bag is included with all Canopy Covers. Made from Silver Acrylic Sunbrella or Silver Solution-Dyed Polyester and is lined 100% with a soft and smooth microfiber. The outer material is medium-weight and treated for water resistance, UV resistance and anti-static buildup. The inner lining is a very soft and smooth microfiber to prevent scratching. Does not contain hydrocarbon compounds that can harm Plexiglas windshields and acrylic finishes. Other colors are available. Please contact us for availability and price. Light weight material available.

<table>
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<tr>
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BRUCE'S CUSTOM WING COVERS

The Wing Covers are a perfect solution to protect your paint from sun damage and prevent winter frost, snow, ice build-up, and corrosion. They are made from Solution-Dyed Polyester or Acrylic Sunbrella and form-fit to slip around each wing tip, cover the entire upper surface of the wing and wrap around the leading and trailing edges. The covers secure under the wing with adjustable straps from the trailing edge to the leading edge. The wing covers can also attach to each other with adjustable straps at the leading and trailing edges of the wing under the belly of the plane. We have the ability to also accommodate wing tip modifications, such as STOL kits, droop tips, and vortex generators. Labeled LEFT and RIGHT for your convenience. Hall Protection version can be made. Set of 2:

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<td>Cessna 177 Cardinal</td>
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<td>Cessna 180/185 Skywagon</td>
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# BRUCE'S CUSTOM COVERS

**BRUCE'S CUSTOM HORIZONTAL STABILIZER COVERS**

Horizontal Stabilizer Covers are a perfect solution to protect your paint from sun damage and prevent frost, snow, ice buildup, and corrosion. They are made from Solution-Dyed Polyester or Acrylic Sunbrella. They cover the entire upper surface of the stabilizers and overlap around the leading and trailing edges as well as the wing tip. The covers secure under each stabilizer with adjustable straps. In some instances, cut-outs are made in the trailing edge of the wing covers to accommodate for static wicks. Horizontal Stabilizer Covers for winter use or long-term all use are usually available, and are normally made from Solution-Dyed Polyester or Acrylic Sunbrella. A Hail Protection version can be made. Although these covers are bulky, they do help protect your wing and control surfaces against small to medium-size hail. **Set of 2 - Winter Use**

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**BRUCE’S CUSTOM ENGINE COVERS**

Once the material for each order is cut into its appropriate parts, highly trained sewing machine operators meticulously assemble the products with durable thread, rivets, and canvas trim.

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Prices Subject to Change Without Notice

[WWW.AIRCRAFTSPRUCE.COM](http://WWW.AIRCRAFTSPRUCE.COM)
**BRUCE’S CUSTOM COVERS**

Heatshield Interior Reflectors are made of a special laminate of metallized polyester film and closed cell foam. Less than 1/8” thick, the Reflector can roll up and store in a sleeve, yet is stiff enough when flat to stand up against the windshield using the sun visors and window framing only. On some designs no Velcro or suction cups are necessary. Heatshields are an excellent short-term remedy for cockpit overheating, but use the Canopy Cover for more effective and practical long term protection. Heatshields should not be used on polarized windows.

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**BRUCE’S CUSTOM HEATSHIELDS**

Engine Inlet Plugs are custom fit for your intakes, made with heavy-duty vinyl material, and stuffed with a single block of sculpted urethane foam. Each plug has a zipper that allows the foam to be removed and dried if necessary. Engine plugs have warning flags that are visible from the cockpit or ‘remove before flight’ streamers sewn onto the face of the plugs.

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**FUEL MATS – FUEL INDICATORS**

**POLYURETHANE WING FUEL MAT**

This polyurethane wing fuel mat can be easily cleaned with soap and water. Avoid spraying product with silicone or wd-40 type products because this material will cause damage to the fuel tank. Use non-scratching wing surface. Color fading will not affect the integrity of the polyurethane material. Color options available at point of purchase. Dimensions: 18” x 24” x 0.30” Length and width dimensions are subject to +/- 1/8” tolerance. Service Range: -20°F to 200°F. Price: $29.50

**FUEL STIKS**

Extremely light, high impact plastic tubing with aluminum rings resist damage. Available “Aircraft Specific Scales” can be downloaded and printed from the website. Can be calibrated to any fuel using the “Universal” scale. A worksheet, written instructions and even an instructional video are available at the website. We will generate an “Aircraft Specific Scale” for your calibration.It’s shipping tube doubles as a “Vented Storage Tank”.

**WING MAT**

This navy blue carpet can be placed on the wing prior to boarding which will protect both the wing and the aircraft. Internal. This mat rolls up easily for storage in the aircraft and an attached elastic band keeps it rolled up. The rubber backing is perfect for use on low usable. Two sizes are available.

**FUEL HAWK FUEL GAUGES**

The Fuelhawk is just 11” long, clear lightweight and unbreakable. It’s easy to use and gives an instant readout in gallons usable. No more guessing. These easy devices offer the answers to these very important questions: 1. How many gallons of usable fuel are remaining in the tank? 2. How much fuel can be added without going over gross weight? 3. Are the fuel level gauges working & accurate?

**THE ORIGINAL FUEL STOP**

The Fuel Stop is a simple tool that snaps onto a standard straw fuel gauge and prevents the gauge from ever slipping into the tank. Works with FuelHawk, or any other 1/2” diameter fuel gauge tube. It also becomes extremely handy when it’s necessary to set the gauge on the wing, as it will stay put and not roll off to disappear into the grass or onto the pavement. Shaped like a set of red pilot wings which makes finding the gauge a snap.

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**Cessna High-Wing Fuel Vent Screen**

Fuel flow to your aircraft’s engine can be compromised by insects or debris entering fuel tank vents. This remove-before-flight Fuel Vent Screen prevents contaminants from obstructing or contaminating the fuel system. The attached foot-long, florescent, and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions, so it won’t be forgotten during your pre-flight. Fits Cessna piston engine aircraft. Inside diameter of PVC sleeve is 0.365”.

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<th>Diameter</th>
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<tr>
<td>3/8 inch</td>
<td>$18.75</td>
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<td>1/2 inch</td>
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**Fueling / Engine Access Wing Mats**

Please specify color when ordering: Red, Light Blue, Royal Blue, Black, Green, Yellow and Safety Orange. Features: Protective and durable impact absorbing Urethane-polymer • UV-Fuel Resistant and absorbing polyurethane. Non-Marking and Non-Abrasive, UV stable. Exposure to direct sunlight will cause color fading.系

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**Direct Fuel Level Indicators**

These Direct Fuel Level Indicators are quality made of acrylic PVC tube with an aluminum scale. They are available calibrated to individual tanks or uncalkibrated for custom calibration to home built tanks. These indicators allow an accurate check on board fuel level indicators and eliminate the guess work.

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**Gocheck Preflight 6 in 1 Multi-tool**

Designed for single-engine propeller pilots and aviation mechanics; the Gocheck Preflight Multi-Tool combines six functions in one. Features a strong stainless steel body; unique for preflight inspection and compact to store in your flight bag or clip to your belt. Ideal fuel tester with Strainer, Stall Horn Tester, Dipstick Wiper, Red/White Flashlight, Phillips/Flathead Screwdriver, and Checklist Reminder Card.

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**Wings**

[Image of wing design]
COWL PLUGS

Cowl Plugs with attached “remove before flight” streamer for general aviation aircraft. Prevents bird and foreign objects from entering through the cowl. Comes complete with a linking lanyard and pull handle before flight streamer. Heavy duty crisscross linked construction and durable nylon hand sewn stitching complete the set. Please specify aircraft make, model, & serial number when ordering. Plugs are furnished with free embroidery and pilot tube cover.

Single engine.........P/N 13-01742 ...........$75.95
Twin engine..........P/N 13-01743 ................$148.95

PROPELLER SLINGS

Propeller Slings & Exhaust Covers keep your propeller secure and in place, eliminating any bearing damage caused by a free-spinning propeller with no lubrication. The integral exhaust covers protect the costly turbine wheel from debris & birds. Simple, quick one man operation. Please specify aircraft make, model, & serial no. when ordering. .................P/N 13-01744 ...........$106.90

INLET PLUGS

These protect your engine form foreign object damage, blowing dust and sand, birds and debris. Complete with remove before flight flag and easy pull handle for insertion and removal. Please specify aircraft make, model, & serial no. when ordering. .................P/N 13-01745 ...........$92.95/eng

JET ENGINE COVERS

Made of extremely durable, water-proof and fire resistant Hercules, our covers are guaranteed for 10 yrs. Each set is hand crafted and sewn to order. Complete with storage bag and remove before flight flags. Please specify aircraft make, model, & serial no. when ordering. P/N 05-04077..........................CALL FOR QUOTE

ENGINE INTAKE COVER

Protect your engine from natural hazards which could cause serious in-flight problems. This economical design fits practically any single or twin, even homebuilts. The lightweight, fire-retardant mesh fabric will not blister or melt. After simple on-time installation of mounting hardware, cover snaps into place and secured with Velcro. Folds for easy storage. Complete with mounting hardware & “Remove Before Starting Engine” streamers. Also available: Bib that allows you to cover additional intakes. Engine Intake Cover .......................P/N 7148 .....................$64.85

KUVR**IT WHEEL COVERS

A vinyl-coated polyester that is fade resistant and California State Fire Marshall approved (#F-2310). The weave breathes and yet provides 85% shade factor from the suns damaging ultra violet rays. It is easy to care for. Simply machine wash and just hang it to dry. The KUVR**IT II Wheel Cover is easy to use. Simply place the cover over your tires and adjust the strap to the desired tightness and lock into place. There are two sizes for your convenience. Small fits tire size: 5.00 – 5/15 x 00-6........P/N 13-03158 .....................$39.95

REDWING TRAILING EDGE

RedWing helps prevent aircraft damage and head injuries. Just slide the foam onto the trailing edges of ailerons, elevators, rudders or flaps to protect these surfaces while tied down or in the hangar. RedWing is also ideal for proecting landing gear doors, avionics antennas, and winglets. The bright red color reminds the pilot to remove RedWing before flight, and RedWing is reusable and unaffected by UV, wather, or oils. Furnished in 3 ft sections which can by easily cut to smaller sections. P/N 13-02566 .....................$25.90

WICKSHIELD

Warning type cover for aircraft, wire/rod & “whisker” type, Static Wicks. These are very simple to use, economical, and conveniently packed in 8 packs. They offer practical protection for the wicks, charter/corporate passengers, crew, and maintenance staff! They have been well received by corporate fleets. Features: One size fits all static wicks, Lightweight will not stress static wicks - will not scratch airplane finish. Quick “Attach - Release” Clasp - will not stick to wicks - will not freeze in place.

P/N 13-11708 ...............$35.90

STEARMAN COCKPIT DUST AND RAIN COVER

One of the problems with traveling in your Stearman is the lack of hau to necessitates. This Cockpit Cover weighs about 1 pound in it’s storage bag, which is the size of a quart carton.

The cover is made from back-packing tent material which is rain proof and light weight. Installs with two Velcro straps and four elastic cords using plastic fasteners. There is no metal to scratch your finish. Available in Federal Yellow ..................P/N 13-11616 ...........$219.95

KOGER SUNSHADES

The Koger Sunshade was developed to provide protection from the sun while flying an airplane that has a large bubble plastic canopy like the RV-6, RV-7, RV-8, RV-9 and many other types of aircraft.

Key Benefits:

• Retractable to front or rear.

• Lightweight (8oz. for side by side RV models)

• Installs in 1/2 to 1-1/2 hours depending on the model.

• Makes instruments more visible, and the cockpit more comfortable.

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<thead>
<tr>
<th>Fits</th>
<th>Description</th>
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<tr>
<td>RV-8</td>
<td>Special 15” W x 46” L</td>
<td>13-05657</td>
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<td>RV-6, 6A, 7, 7A, 9, 9A</td>
<td>Standard RV TIP-UP 30” W x 28” L</td>
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<td>Standard RV Slider 30” W x 25” L</td>
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<tr>
<td>RV-6, 7, 9</td>
<td>Super RV Slider - 34” W x 35” L</td>
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<td>RV-6, 6A, RV-7, RV-7A, RV-9, RV-9A, RV-14, Lancair 320, 360, Pulsar, Plusar III, Sonex, Swift</td>
<td>Designed for the RV-14, 35” W x 25” L</td>
<td>13-20710</td>
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<td>Arion Aircraft – Lighting, Breaker, Citrus, Classic Sport - S-18 &amp; S-18T, Europa Eavektor - Eurostar, Glasair-320 and 360 Lancair – Legacy, Mustang II Sequoia Falcon - FBL, Skylark Sting Sport, Texas, Zenith - Zodiac</td>
<td>Large Universal for larger clear bubble canopies with no center structural members 34” W x 35” L</td>
<td>13-05660</td>
<td>$229.00</td>
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<td>Air Tourer AESL T-6, Alisport LLC Sailplane, American Champ 8GGBC, Apollo Inc Sailplane, Citabria, Cozy III &amp; IV, Dynamic WTP, Evektor Sportstar, Fasanation D4, Glasair, Nuventure Questair, Rans Coyote II, Rans S-7S &amp; S-6, T-18, Team Rocket F-1, Vans RV 4</td>
<td>Custom made to order shades</td>
<td>13-05661</td>
<td>$286.95</td>
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TRISOFT WINGTIP BUMPER

Trisoft Bumpers provide protection for the trailing edge of the wing, delta fins and ventral fins. Each Trisoft Bumper is made of chemical resistant EVA foam and provides ultimate aircraft protection. The Trisoft Bumpers also work great as wing edge indentifiers. This helps protect your employees while they are working or walking under the wing.

P/N 13-08263 ...............$31.75

TRISOFT WINGTIP/PROP TIP COVERS

• Avoid Accidents • Protect Employees and Aircraft • Reduce Insurance Claims • Remain In Compliance Trisoft Aircraft Covers • Can Be Used As A Safety and Warning Device on Prop Tips. Trisoft is a simple foam triangular cover that slips onto the corners of the prop lips, gear doors, wing flaps (in the lowered position), wing tips, and control surfaces. Trisoft can be used on personal aircraft, corporate aircraft, commercial aircraft, military aircraft and helicopters.

P/N 13-06003 ...............$21.85

PS WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice

984
**PLANE SIGHTS REMOVE BEFORE FLIGHT**

**PLANE SIGHTS PITOT TUBE COVERS**

- **ANGLED PITOT TUBE COVER** - Aircraft Type: Piston Powered Plane. This durable, weather-resistant orange and yellow reflective cover fits virtually any size pitot tube. It stands out in daylight or darkness under all weather conditions, so it can’t be missed. Fits any Angled Pitot tubes, including models with static wicks and strobe lights. For aircraft with tip tanks, the wing marker and their projecting “proximity fuses” warn that something is too close before damage occurs. Fits Piper, Lear, Mooney, Jabiru, and others. Weight: 0.04 kg. (In stock) (also available by special request, 5.25” length sleeves). Standard two year warranty applies. *Shock cord lanyard not included.*

- **BLADE PITOT COVER** - Aircraft Type: Piston Powered Plane. Forgetting to remove a faded, dull and worn-out pitot tube cover can jeopardize the safety of you and your passengers. And when cold weather prevents you from installing your pinch-and-insert style blade pitot cover, ice and snow can contaminate your pitot system. Some blade pitot covers also cause damage to paint when the sleeve is being forced in or out. The highly conspicuous and very durable Plane Sights Blade Pitot Cover is a perfect fit for any aircraft with a blade-type pitot tube or piper gear extension mast. Properly installed, it’s guaranteed not to blow off, fade in the sun or wear out for at least two years. Fits Piper, Katana, some Rockwell, late Grumman, Lake 250, and all other aircraft with a blade type pitot tube. (As seen on the 2009 AOPA ‘Let’s Go Flying’ Cirrus SR22)* P/N 13-05610. **$16.95**

- **PITOT TUBE PLUG (5/8”)** - Aircraft Type: Piston Powered Plane. 5/8” inside diameter vented plug with its unmistakably conspicuous Remove-before-Flight Streamer. ANSI-compliant and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions. The plug is attached to the streamer’s rugged black oxide coated zinc grommet with a galvanized steel ring, and is vented to prevent pressurization damage. This 5/8” Plug Fits Aero Commander, Twin Beech, Bonanza, Cessna 300/400/500, Conquest Series, Grumman, Lear, Mooney, Swearinger and other aircraft. Weight: 0.04 kg. 5/8” x 0.625” (15.875mm) ID x 1.85” (38.10mm) ID x 2” (50.80mm) useable length. **P/N 13-06019.** **$14.95**

- **PITOT TUBE PLUG (3/4”)** - Aircraft Type: Piston Powered Plane. 3/4” inside diameter vented plug with its unmistakably conspicuous Remove-before-Flight Streamer provides a perfect easy-on, easy-off solution. ANSI-compliant and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions. The plug is attached to the streamer’s rugged black oxide coated zinc grommet with a stainless steel ring. This 3/4” Plug Fits Cessna 150, 152, 177, 177, 182, 200 series, and 337 models. Weight: 0.04 kg. 3/4” x 0.75” (19.05mm) ID x 2” (50.80mm) useable length. **P/N 13-06018.** **$14.95**

- **LIGHT SPORT PITOT PLUG KIT** - Aircraft Type: Piston Powered Plane. Light Sport/ Homebuilt Pitot Plug Kit provides a perfect fit for many homebuilt pitot tubes, light sport pitot tubes, and aircraft fuel vents. The kit includes several vented plugs so it even works with double-tube systems and is guaranteed to pressurize your pitot static system. ANSI-compliant and weather-resistant reflective remove-before-flight streamer stands out equally well in daylight or darkness under all weathere conditions. The kit comes complete with three different-sized pitot tube plugs, a unique streamer/ warning marker, and two rust-resistant coated triangle rings. **WARNING: CHECK WITH YOUR AIME AND CONSULT YOUR OWNER’S MANUAL BEFORE USING A FUEL VENT PLUG.** **P/N 13-06020.** **$14.95**

- **DIAMOND STALL WARNING PLUG** - Aircraft Type: Piston Powered Plane Diamond recommends that operators of their DA40 and DA20 aircraft plug the stall warning air inlet holes on these aircraft while they’re parked on the ground. Fits any Diamond DA40 or DA20, one side or the other. ANSI-compliant and weather-resistant reflective remove-before-flight streamer stands out equally well in daylight or darkness under all weather conditions. **P/N 13-06893.** **$39.95**

**STATIC WICK COVERS**

- **STATIC WICK COVER SET (TUBE STYLE 7”)** - Aircraft Type: Jet. A lower priced alternative to Static Wicks Markers. Prevents static wicks from damage on the ground and make wing/elevator tips more obvious, preventing hangar rash. Slide these round style covers on for a tight weather resistant fit on Citations and other jets. Weight: 0.04 kg Round, tubular poly cover, 0.310” x 0.450” x 7.000”. Long. *Shock cord lanyard not included.* **P/N 13-06888.** **$42.75**

- **STATIC WICK COVERS (SMALL ID 7”)** - Aircraft Type: Jet. Installed and removed in seconds, Static Wicks Covers help prevent delays and inconveniences due to hangar rash. Extremely obvious and very durable Static Wicks Covers make these vulnerable parts highly visible by day or night. Slide these round style covers on for a tight weather resistant fit on Falcon, Hawker, Beechjet, older Lear Jet and many other static wicks. Weight: 0.21 kg. Fits over static wick part #: Chelton 2-17SC-1, Chelton 2-115SC-1, MIL-9129D, DG17770. Fits Bombardier, Hawker/Beechcraft and others. **P/N 13-06777.** **$29.95**

- **STATIC WICK COVER (SQUARE STYLE)** - Aircraft Type: Jet. These Square Style Static Wicks Covers protect, unsuspected yellow pronged static wicks from damage on the ground and make wing/elevator tips more obvious, thereby preventing hangar/ramp rash. Slide these square rectangles covers on for a light weather resistant fit on Falcon, Hawker, Beechjet, older Lear Jet and many other static wicks. Weight: 0.21 kg. Includes three (3) Static Wicks Covers per package. Poly, 0.75” x 2.05” x 0.3” (19.05mm) x (in stock) (available by special request, 5.25” length sleeves). Standard two year warranty applies. *Shock cord lanyard not included.* **P/N 13-06603.** **$159.95**

- **REMOVE BEFORE FLIGHT STREAMER**

  Blazing yellow color stands out equally well in daylight or darkness under all weather conditions. A cord can be attached to the streamer to the rugged black oxide coated zinc grommet ideal for any remove-before-flight application. Weight: 0.03 kg. Streamer - 12.25” long x 2” wide, two metal rings included. **P/N 13-06512.** **$13.95**

**HI VISIBILITY BOOTIE PITOT COVER**

- **Features:** Long Life Clip - Hook and loop closure • Bright Yellow Sock - More visible against aircraft finishes • Softer Vinyl Banner - Less abrasive to paint and aluminum • Bright White Letters - High visibility lettering, Fuel resistant (won’t chip off), Non-abrasive • Applications: • Specially designed for use with pylons mounted on aircraft, fits on fuselage, Nose, Fuselage, or under wing locations • VL jets, and regional service airline aircraft (Boeing, Beechcraft, Bombadier, Cessna Jets, Cirrus, CRJ, Piper, Grob, Grumman, Gulfstream, Lear, Embraer, Hawker, Swearinger, and others). Fits parts highly visible by day or night. Slide these rectangle covers on for a tight weather resistant fit on your Bombardier (Challenger & Global Express) or Hawker/Beechcraft and many other jets. If necessary cut with scissors to desired length. Weight: 0.20 kg. Fits over static wick part #: Chelton 2-17SC-1, Chelton 2-115SC-1, MIL-9129D, DG17770. Fits Bombardier, Hawker/Beechcraft and others. **P/N 13-06512.** **$11.50**
**BANNERS – PITOT TUBE COVERS**

**AIRCRAFT FOR SALE BANNERS**

Designed specifically for aircraft use, these banners slip right over your prop blades, moving in the breeze to attract attention—but will not rub against painted surfaces. Each banner is 9" x 23", made of heavyweight rubberized nylon that is weather-repellent and resists tearing. Sold as a set of 2.

P/N 5412 ............... $27.85

**PROPeller MOUNTED BANNERS**

Two 28" x 8", white printing on red reinforced vinyl. Yellow, white and blue pennants, slides over prop, fastens with velcro.

For Sale .................. P/N 13-06402 .................. $36.50
For Rent..................... P/N 13-06635 ............... $34.50

**FOR SALE PROP BANNER**

Consists of three pieces. Each prop banner is 11" high X 22" long when mounted. Made of RED vinylized polyester with BOLD WHITE lettering. Unlike prop banners that are a sleeve which must be slipped over the prop blade only, these banners are split at the bottom and are held together with velcro. This allows the banner to be opened up and then wrapped around virtually ANY structural member of the aircraft.

P/N 13-06014 .................. $38.50

**AIRCRAFT SPRUCEL PROPELLER CARD**

These prop cards are great when displaying your aircraft at a fly-in or event. There’s room to fill in your personal information as well as a large area instructing onlookers to enjoy the views of your beautiful aircraft, but keep their hands off. They easily slide on and off the blades of your propeller. If you are organizing an event, these are affordable enough to pick up in bulk and pass them out to all who attend. Pitot Tube Cover 3/4" (large)

8-1/2’x 11”. Semi-Gloss

$1.35

**PITOT TUBE COVERS**

Feature an authentic, soft, bright red vinyl - will not fade, mildew resistant, made to Mil-C-20696. “Remove before Flight” streamer. Attaches simply with a velcro strap to 5/8” or 11/16” diameter L-shaped pitot tubes.

P/N 15210 .................. $5.95

**SLIP ON PITOT COVER**

Slip fit over 1/4” or 1/2” dia. pitot. Red Remove Before Flight streamer attached. Made of flame-proof/weather-resistant National Aerospace material .

P/N 15220 .................. $6.95

**ROUND CESSNA PITOT COVER**

This red pitot cover fits round, high-wing Cessna pitot tubes. Grooved fitting releases air pressure as the barometer changes.

P/N 5139 .................. $9.90

**PIPER PITOT COVER**

This pitot cover is designed to fit the blade style pitot commonly found on piper aircraft. Small vent hole prevents pressurizing system.

P/N 5740 .................. $15.85

**REMOVAL BEFORE FLIGHT RIBBON**

This 3’x24” bright orange streamer with black letters features a grommet for a C ring to attach to anywhere on the aircraft. High visibility, fire resistant material.

P/N 15200 .................. $17.50

**DO NOT TOW STREAMER**

17” Streamer, attach with Velcro. Color international orange.

P/N 13-0004 ............... $12.85

**ASA REMOVE BEFORE FLIGHT BANNER**

A bright red heavy nylon banner that can be fastened to anything that needs removing before flight. Comes with a grommet and wire ring that can be attached to everything from gear pins to gust locks and pitot covers. Heavy duty vinyl is tear resistant. 2” x 17”.

P/N 13-02380 .................. $6.95

**ASA PITOT TUBE COVERS**

Fit snugly over standard aircraft pitot tubes, and are vented to avoid pressurizing the pitot static system. Unlikely to wrinkle, the cover keeps dirt, contamination, and insects from entering the pitot tube. A “remove before flight” streamer hangs off the cover as a prominent preflight reminder to pilots. Molded in the United States, the cover uses a heavy duty plastic material.

Pitot Tube Cover 5/8” (small) (Fits: Cessna 318, Citation) ............... P/N 13-02377 .................. $12.95
Pitot Tube Cover 3/4” (large) (Fits: Cessna 150,152,172,177,182, 200 series, Skymaster & the Falcon Jet) ............... P/N 13-02377 ............... $13.95

**FUEL CAP COVER**

The STAY SEALED cap is a patented fuel cap cover that locks onto the existing factory cap and seals to the surface of the wing. Designed and tested against heavy rains, strong winds, high temperatures, and extreme cold. It sealed out melting snow and ice, blowing rain and water from aircraft washing. *To be used anytime the aircraft is stored outside. The device MUST be REMOVED BEFORE FLIGHT.*

Model SSSC fits the following: Cessna Series: 152, 172, 182, 206, 207, 210. Fitted with the raised metal fuel cap. P/N 05-03662 ............... $48.85
Model SSMP fits the following: Cessna 120,140,150,172 with recessed fuel filler opening. P/N 05-03668 .................. $48.85
Model SSAP fits the following: Piper Series: PA-28-140,PA-28-160,PA-28-180,PA-28-200,PA-32-260,PA-32-300 fitted with the raised metal fuel cap. P/N 05-03669 ............... $48.85

**“REMOVE BEFORE FLIGHT” PITOT COVERS**

Universal cover .................. P/N 13-04395 .................. $12.75
Piper blade cover .................. P/N 13-02946 .................. $12.75
3/4 pitot cover .................. P/N 13-04394 .................. $12.75
5/8 pitot cover .................. P/N 13-04394 .................. $12.75
Sm RBF streamer .................. P/N 13-02818 ............... $3.95
Lrg RBF streamer .................. P/N 13-02819 ............... $6.50
Nelson RBF Streamer .................. P/N 13-04377 ............... $8.50

**FUEL VENT COVER**

The fuel vent cover is designed to fit most fuel vents, and will not presurize the fuel system. The ribbon is nylon with a vinyl coating and silkscreened letters.

P/N 13-02817 .................. $11.95

**REMOVAL BEFORE FLIGHT STREAMERS**

Red “REMOVE BEFORE FLIGHT” Streamer with white lettering.

2” X 17” .................. P/N 13-06638 .................. $6.75
3” X 31” .................. P/N 13-11731 ............... $8.50
3” X 21” White on Orange .................. P/N 13-16572 ............... $6.95
3” X 21” Black on Yellow .................. P/N 13-16573 ............... $7.50
3” X 21” White on Pink .................. P/N 13-19013 ............... $6.50

**ASA PITOT TUBE COVER - BLADE**

This pitot tube cover fits snugly over blade-type pitot systems typically found on Piper Cherokee, Warrior, and Arrow aircraft.

P/N 13-02379 ............... $13.95

**KEY CHAINS**

Remove before flight key chain with white letter “REMOVE BEFORE FLIGHT”.

P/N 13-02836 .................. $3.95

Key ring with a white printed “I’D RATHER BE FLYING” on blue banner.

P/N 13-02949 ............... $2.95

Key ring with blue writing “I LOVE FLYING” on off-white banner.

P/N 13-02950 ............... $2.95

**PROFLIGHT AIRCRAFT KEY CHAINS**

ProFlight aircraft personal streamer with attached ring and slogan “I LOVE FLYING”.

P/N 13-10448 .................. $1.95

ProFlight aircraft personal streamer with attached ring and slogan “HAVE YOU CLOSED YOUR FLIGHT PLAN”.

P/N 13-10449 ............... $1.99

**Prices Subject to Change Without Notice**
**PITOT TUBE COVERS – EZ FLAP**

**UNIVERSAL STATIC PORT COVERS**

An inexpensive, yet very effective alternative to other covers and plugs. The SPC-101 is designed to fit an aircraft with one static port on each side of the aircraft and the SPC-102 is designed to fit an aircraft with two static ports on each side of the aircraft.

**Features:** Universal design to fit most aircraft • Lightweight entire assembly weighs less than 1/2 pound • Attaches with heavy duty lever cups designed to lift up to 40 pounds each • No fuselage modification required • Prevents the possibility of any damage to static ports by being and externally mounted cover • Malleable light gauge aluminum easily conforms to virtually any surface contour • Adjustable for attaching lever cups on or around decals and pin striping • Installed at temperatures from -20°F to 110°F

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<thead>
<tr>
<th>SPC-101</th>
<th>SPC-102</th>
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<td>P/N 13-06723</td>
<td>P/N 13-06724</td>
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<td>$199.85</td>
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**PITOT COVERS**

Avoid costly damage to your pitot-static system. Protects from dust, insects, wind and other foreign matter. Will not pressurize pitot-static system.

**MODEL 4602** - Fits Piper, Katana, some Rockwell, and late Grumman aircraft. P/N 13-06395 .......... $10.50

**MODEL 4935** - Bootie Type, all Naughahyde, white boot, red with white printing, 2” x 16”. P/N 13-06397 .......... $10.50

**STREAMERS**

**5811 “OUT OF SERVICE”** - 3” x 24”, yellow printing on red reinforced vinyl with grommet and ring. 2” securing strap with grommet and velcro. P/N 13-06399 .......... $11.50

**5813 “DO NOT TOW”** - 3” x 16”, yellow printing on red reinforced vinyl with grommet and ring. 2” securing strap with grommet and velcro. P/N 13-06401 .......... $10.60

**4604 “REMOVE BEFORE FLIGHT”** - 2” x 16”, white printing on red reinforced vinyl with grommet and ring. P/N 13-06396 .......... $5.35

**EZ FLAP HANDLE EXTENSION**

Because EZ Flap puts the flap control at the correct location close to the yoke (instead of down on the floor under the panel), pilots can finally remain upright while using the flaps, and stay focused on takeoff/landing, obstacles, terrain, traffic, and instrument scan. No more bending over - no more loss of visibility. EZ Flap improves the performance of the pilot! EZ Flap mounts to the existing aircraft flap handle with no disassembly and no de-rigging in 20-40 minutes, with only two small screw holes. The original aircraft flap control remains fully functional. 100% made in the USA. Full FAA STC-PMA approval on 95% of all US manual flap aircraft.

| CESSNA/PIPER FLAP HANDLE EXTENSION APPLICATIONS: | $499.00 |
| P/N 13-06946 | |

| BRUCES UNIVERSAL CUSTOM PITOT TUBE COVERS |

The Original and World’s Finest Aircraft Covers for Airplanes, Jets, Helicopters, Gliders and QEC Off-link Jet Engines.

Once the material for each order is cut into its appropriate parts, highly trained sewing machine operators meticulously assemble the products with durable thread, rivets, and canvas trim. Pitot Tube Covers, made of Naughahyde vinyl, are designed to cover the entire pitot assembly. Slipping on over the tube, the cover tightens around the base with a special Velcro strap detail. A “remove before flight” streamer is attached to the cover. Non-burning Pitot Covers are designed to withstand more than 500° Fahrenheit, and will prevent the pitot cover from melting onto the tube if the pitot heat is accidentally turned on with the pitot cover attached.

**Pitot Tube Cover for the following applications:**


| P/N 13-15994 | $28.75 |

**Pitot Tube Cover for the following applications:**

- Cessna: 150, 152, 172, 175, 180/185 Skywagon, 182 Skylane, and 206 Stationair • Grumman AA1

| P/N 13-15995 | $28.75 |

**WWW.AIRCRAFTSPRUCE.COM**

Prices Subject to Change Without Notice
**PITOT TUBE COVERS**

**REMOVE BEFORE FLIGHT STREAMER**
Red Streamer with white print. Aid as a reminder of preflight for pilots. Ideal for landing gear pins.
P/N 13-18382 ...........$13.75

**ROSEMONT TEMPERATURE PROBE COVER**
High Quality Cover for Temperature Probe.

**PITOT COVER FOR PIPER AIRCRAFT**
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.
Applications: Piper aircraft, and small general aviation.
P/N 13-18385 ...........$21.95

**UNIVERSAL PITOT COVER**
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.
Applications: Small general aviation aircrafts, Cessna Citation, Beechcraft, King Air, Cirrus, Diamond, Grumman Mooney, Cessna, Piper.
Left ..................... P/N 13-18384 ...........$21.90
Right ..................... P/N 13-18384-R ...........$19.95

**LEARJET PITOT COVERS**
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.

- Learjet 25, 31, 35, 36 series
- Learjet
- Bombardier: Challenger 601, 604, 300

**CIRCULAR STATIC WICK COVER**
Circular Tube Static Wick Covers with streamer remover before flight. Protects aircraft static wicks and personnel from injuries on ground and makes wings elevator more obvious preventing hangar rash.
Applications: 
- Embraer Phenom 100
- Phenom 300
- Learjet series
- Citation series and more.
P/N 13-18388 ...........$49.50

**PILATUS PC-12 COVERS**
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.

- Pitot Covers
  - Left ..................... P/N 13-18393 ...........$26.95
  - Right ..................... P/N 13-18393-R ...........$26.95

- Angle of Attach Covers
  - Left ..................... P/N 13-18392 ...........$21.80
  - Right ..................... P/N 13-18392-R ...........$19.95

**PLANE SIGHTS REFLECTIVE GEAR PIN FLAG**
The Plane Sights 3x18” lime green or red orange reflective XL Remove-Before-Flight banner is designed for long medium to long range business jet gear pins and replacement wide body remove before flight flags. Plane Sights is the only brand of remove before flight flags that are made from ultra violet resistant microprismatic reflective. The brilliantly reflective PVC can also be easily cleaned of landing gear grease with any mild soap and water. Lime Green ..................... P/N 13-21613 ...........$28.35
Red Orange ..................... P/N 13-21614 ...........$28.35

**PLANE SIGHTS FLASHFLAG**
This 4x32” flag is designed to meet the abrasion resistance, weatherability, and self extinguishing/fire retardant requirements of wide body and other long range business jet OEM customers. The materials and construction meet NAS-1756 / NAS-1091 technical specifications for remove before flight flags. The color specifications, for obvious reasons do not meet the standard. If you’re looking for a very durable pin flag that’s designed for the abuse of quick turns and tight stowage, this is the right product.

- 3” X 20” ..................... P/N 13-21623 ...........$29.90
- 4” X 32” ..................... P/N 13-21622 ...........$42.90

**UNIVERSAL REMOVE BEFORE FLIGHT PITOT TUBE COVERS**
Before Flight Pitot Tube Covers. 5/8” or 3/4” ID Vinyl Cover:
- 5/8” ............................................................. P/N 05-12646 ...........$8.95
- 3/4” ............................................................. P/N 05-12645 ...........$8.95

**UNIVERSAL REMOVE BEFORE FLIGHT PC-100U PITOT COVER**
Before Flight Pitot Cover. Universal size, All Vinyl. - Fits All Tube Type
Pits............................................................. P/N 05-12660 ...........$16.85

**FUEL CAP COVERS**
This easy to use removable product will help keep water and debris from getting inside your fuel tank, all you do is peel and stick it right on top your fuel cap after landing and remove before your next flight. Set of 2
P/N 13-21885 .....................$49.95

**STATIC PORT COVER**
This easy to use stick on product will provide full coverage for your Static Port and protect it from all the natural elements.
P/N 13-21884 .....................$27.95

Prices Subject to Change Without Notice
WWW.AIRCRAFTSPRUCE.COM
UNIVERSAL CONTROL LOCK
Stainless steel construction with silicone rubber to protect aircraft interior and folds into small package for easy storage. Installs in seconds from the pilot seat and fits most aircraft with a control column. Other control locks are not required like the one Cessna provides. Cannot get your feet on the Pedals to taxi aircraft and keep the elevator in the nose down position. P/N 13-13075 ...............$369.00

AMC AIRPLANE CONTROL LOCK
Rather than tying your seat belt to your controls, try AMC’s new Airplane Control Lock. This lightweight control lock will stop your control surfaces from moving with the winds and will also prevent damage to your controls such as bending. This new Control Lock is lightweight and easily stored.
Airplane control lock cessa or any aircraft with control spacing of 14”-19”........................................P/N 13-02851 ...............$96.75
Cessna 210 ..................................................P/N 13-03164 ...............$77.95
Cessna 206 ..................................................P/N 13-03166 ...............$81.95
Skymaster ..................................................P/N 13-03167 ...............$77.95

KENNON GUST LOCKS
Soft Gust Lock secures flaps, ailerons, the elevator or the rudder. It is made from special weather resistant, high density, closed cell foam with a nylon eyebolt. It is adjustable and will not scratch the plane’s surface, and includes a “Remove Before Flight” streamer & storage bag. Designed for use with control surfaces up to 8-1/2” thick. Locks O.D: 3.9”.................P/N 07-01329 ...............$27.75

PAD-LOK CONTROL SURFACE LOCK
Like it says, a padded lock. Effectively locks control surfaces while the padding compresses to the proper configuration and protects the surface finish. Padding won’t absorb water. Hard-to-miss Dayglo color, plus yarn streamers. Wt. 10 oz. P/N 13-22700 ...............$17.95

THE CONTROL SAVER
The Control Saver control lock was designed for Piper and Mooney aircraft to protect aircraft controls in high wind gusts. It holds the ailerons in the neutral position and stabilizer in the down position. This control lock is light weight, easy to use and fits in an area as small as your shirt pocket. Sold to thousands of Piper and Mooney owners worldwide.
P/N 13-15505 .........$39.95

SAF-T-STOP
SaF-T-Stop is an auxiliary seat stop mechanism approved by the FAA for use with Cessna seat track A.D. #87-20-03. Installs easily, sliding over seat track. Approved for: Cessna 150, 152, 170, 170B, 172, R172, 175, 180, 182, 185, 190, 205, 206, 207, 210, 303, 337. Not a seat lock, SaF-T-Stop is designed to restrict rearward motion if the seat lock fails. P/N 13-18510 ..........$53.65/pr

AILERON & Rudder SOFT LOCK
The Aileron & Rudder Soft Lock is made out of a durable foam that will not scratch your paint. Slides in gap between rudder and vertical stab. Keeps rudder from moving while plane is on the ground. Comes with “Remove Before Takeoff” flag. Patent Pending.
P/N 13-11615 ...............$35.75

LIGHT SPORT CONTROL LOCKS
These control lock is easy to install and positively locks the ailerons and elevator of the aircraft models listed below. Gust lock is manufactured using 6061T3 aluminum. The control stick clamping portion has a protective sleeve to prevent damage to special control handles. The latching mechanism is low locking buttons that cannot come loose until released by the pilot which insures the owners that their ailerons and elevators are safe from wind damage. The control lock is red anodized with a “Remove Before Flight” decal, and each unit comes complete with instructions in a 4” x 4” x 12” box. Only weighs 3 1/2 ounces.

PIPPERSPORT / SPORTCRUISER CONTROL LOCK CL200 LONG
Eligible Aircraft Models: Eligible Aircraft Models: Pipersport and SportCruiser only. .................................................................P/N 13-11304 ...............$78.75

VANS RV12 CONTROL LOCK CL230 LONG
Eligible Aircraft Models: Vans RV12 only …P/N 13-11319 ...............$78.75

VANS RV LSA CONTROL LOCK CL100 SHORT
Eligible Aircraft Models: most Vans’ RV’s and many other LSA aircraft, as well as the Stearman PT17 …P/N 13-11269 ...............$83.75

CITABRIA / DECATHLON CONTROL LOCK CL210 LONG

HUSKY CONTROL LOCK CL110 SHORT
Eligible Aircraft Models: Husky only …P/N 13-21226 ...............$78.85

ULTIMATE GUST LOCKS FOR RV'S
This revolutionary product “The Ultimate Gust Lock” is a solution to this rather troublesome and sometimes challenging task. This product will definitely calm the fears of many RV owners and builders of these wonderful aircraft. After watching, reading, analyzing, researching and waiting for someone to offer up a solution we decided to go to work on this problem.

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV-6, 6A, 7, 7A, 9, 9A</td>
<td>05-12368</td>
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<tr>
<td>RV-8, 8A</td>
<td>05-12483</td>
<td>$189.90</td>
</tr>
<tr>
<td>RV-10, 10A</td>
<td>05-12484</td>
<td>$209.95</td>
</tr>
</tbody>
</table>

REMOVE BEFORE FLIGHT AIRPLANE CONTROL LOCK
Piper and Mooney aircraft do not have control locks. That’s why there is now a Control Saver control lock to meet the needs of pilots who fly these planes.

RANS CONTROL LOCK
RANS has developed a control lock that attaches to most models. The lock consists of a bungee cord, a couple of hooks and cap that slips over the top of the control stick. Allows for bungee tension to be set for a particular model. Not hard bolted so if an outside force against the control surfaces occurs, the bungees will absorb the load.
P/N 13-10434 ...............$35.50
PROP LOCK CHAIN
The THEX50 is a "T-HEX" maximum security chain 5 ft in length with hardened 10mm hexagon shaped links. Hexagon shaped case hardened trip heat treated super chain. This heavy duty Prop Lock Chain is the perfect way to secure the security of your aircraft, particularly at remote or foreign airports. The hexagon shaped, heat treated heavy duty chain can endure over 10 tons of cutting force, insuring your aircraft against theft. A black nylon cover over the chain protects your aircraft from the chain when in place. The Prop Lock Chain is 5 feet long and weighs 12lbs.

WHEEL CHOCK LOCK
This innovative aircraft security device clamps to the wheel which prevents theft of the aircraft, while the built-in chock prevents the wheel from rolling forward when parked. The lock and chock are yellow, while the red rubber coated arms protect the finish of the wheel. Fits any type of wheel up to 12" wide. Lifetime warranty.

YORK GUST-LOK™
The York Gust Locks the ultimate protection for your plane from wind and theft. It locks the control surfaces in a neutral position and prevents damage to control surfaces and tail caused by wind gust loads. It is welded steel, fully adjustable, is lightweight, and features a powder coat finish. The York Gust Lok is compact for easy storage and is quick and easy to use. Wt: 2.2 lbs.

CONTROL WHEEL AIRCRAFT

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commander 112 / 114</td>
<td>13-32730</td>
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<tr>
<td>Mooney, Grumman Goose, Maule (Tricycle gear &amp; Seaplane) PA-23, &amp; Grumman American, Myers 200 &amp; Commander 200</td>
<td>13-00863</td>
<td>$281.95</td>
</tr>
<tr>
<td>Cessna Single engine 150/172’s, Hello Courier, 295/395</td>
<td>13-00864</td>
<td>$282.95</td>
</tr>
<tr>
<td>Cessna Single engine 180, 206 &amp; 210’s fixed &amp; retract gear &amp; Cessna 337</td>
<td>13-00865</td>
<td>$282.95</td>
</tr>
<tr>
<td>Cessna Twins except 337 &amp; 310</td>
<td>09-00329</td>
<td>$308.00</td>
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<tr>
<td>AeroStar, Commander 500, Beech Baron, Bonanza, Duke &amp; 18/C-45, Lake L-A-4 (except Renegade)</td>
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<tr>
<td>Cessna Tailwheel, Stinson, Beech Staggerwing</td>
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<td>Lake amphibian</td>
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<td>Beech king air</td>
<td>13-32830</td>
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<td>Cessna 310’s</td>
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<td>Aerocraft Chief 508, Taylorcraft BC 12-D, Stinson 108 &amp; 108-1</td>
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<td>PA-39</td>
<td>13-32860</td>
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<tr>
<td>Maule (Tailwheel)</td>
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<td>Piper PA-31, Chieftain, Navajo, Chynnea</td>
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<td>Socata (Trinidad), Grumman Widgeon</td>
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<td>Seawind</td>
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<td>Dohaviland Beaver</td>
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<tr>
<td>Cessna Twins (except 337 &amp; 310)</td>
<td>13-00867</td>
<td>$308.00</td>
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<tr>
<td>Piper Malibu</td>
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<td>$308.00</td>
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STICK CONTROL AIRCRAFT

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<tr>
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<td>Champ &amp; Citabria</td>
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<td>Huskie, Pitts</td>
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<tr>
<td>J3 with Shin Knocker Tubes</td>
<td>13-00871</td>
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<td>J4</td>
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<td>Kit Fox</td>
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<td>Lancair IV</td>
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<td>Nanchang GJ-6</td>
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</tr>
<tr>
<td>Piper PA-12</td>
<td>13-00872</td>
<td>$321.00</td>
</tr>
</tbody>
</table>

YORK DO NOT TOW WARNING FLAG
Red and white vinyl warning flag reading "DO NOT TOW." It has a metal ring with a velcro strap for easy attachment and removal on any wind gust lock. Wt: 2.2 lbs.

PROLOCK
PropLock is a simple, yet effective anti-theft device that can be easily installed on any single or twin engine aircraft. Made of high quality steel wire rope coated with bright red PVC. PropLock provides effective protection against unauthorized use of your aircraft.

Included: • 1 PropLock • 1 Remove Before Flight Carrying Pouch.
Features: • Hardened Steel Components • Red PVC Coating • Rust proof • High Visibility • Easily Installed • Nickel Plated Lock Assembly • Effective.

THE ALPHA WHEEL LOCK 2000
The Alpha Lock 2000 adjusts to virtually any wheel size in seconds and completely immobilizes the aircraft or vehicle wheel from rotating or turning. The lock is pick and drill resistant and can be frozen with freon. Soft, coated arms will not mar or scratch wheels and rims. Furnished in bright red color to warn thieves, weather resistant, and carries a 2-year warranty. Excellent for locking aircraft, autos, trucks, trailers, boat trailers, motorcycles, RV’s, etc. Locks anything on wheels! Wt: 8 lbs.

THE PLANE LOCK
For Cessna C-172-210s, except for the C-177. Prevents the wind from popping your doors open and provides an added measure of security against break-ins. No tools or STC required. From outside the aircraft, the pilots door is locked by reaching through the window (prior to closing it) and pushing down the door safety handle. Then, slip the Plane Lock over the window sill and lock the window shut.

Nelson Air-Locker
• 13” RBF streamer
• Locks flaps, ailerons, elevators, or rudder. Air-Locker large (10”)

SKYLOCK
Skylock is an inexpensive throttle lock for aircraft with Cessna type push-pull throttles. The device will accept shafts up to .375” diameter, and is made of heavy-gauge cadmium plated steel. Skylock affords great peace of mind to aircraft owners at very little cost. Just put in place after every flight, secure with your own favorite padlock, and your throttle cannot be moved! Simple, but it works.

ANTHI-E THEFT LOCK FOR BONANZAS
Built for those incomparable Beechcraft. All have FAA STC/PAO as applicable. The ratcheted, locksmith quality key lock combines forces with hardened steel pins embedded in the lock body that roll to defeat cutting. Bright red color, easy to use, installs in just seconds. Patent Pending.

AIRGIZMO UNIVERSAL GUST LOCK
The AirGizmos Gust Locks are designed to quickly lock virtually any control surface securely. Its bright color and integrated flag reminds you to remove before flight. The rubber cushions ensure that your finish will be protected. They are lightweight and portable. Perfect for carrying in the plane wherever you go.

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This innovative aircraft security device clamps to the wheel which prevents theft of the aircraft, while the built-in chock prevents the wheel from rolling forward when parked. The lock and chock are yellow, while the red rubber coated arms protect the finish of the wheel. Fits any type of wheel up to 12” wide. Lifetime warranty.

REMOBE BEFORE FLIGHT

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**FIRE EXTINGUISHERS – RESCUE EQUIPMENT**

**H3R AVIATION FIRE EXTINGUISHERS**

The FAA recommends and/or requires Halon fire extinguishers on aircraft. H3R Halon fire extinguishers are the extinguishers of choice in the aviation industry. They cause no mess or damage, and do not require taking a plane out of service for clean-up; a costly process for both the aircraft owner and insurance carriers. And heat-seeking quality of the Halon gas makes it a superior fire fighting agent.

**DISPOSABLE, LOW-MAINTENANCE HALON 1211-1301 BLEND**

Contain a proprietary blend of the "liquid streaming agent," Halon 1211, and the gaseous "total flooding agent," Halon 1301. The blend’s power lies in the Halon 1301, which is both a fire extinguishing agent and a propellant. Low maintenance and non-rechargeable. Lightweight aluminum canister Disposable. Tested to ANSI/UL 711 and UL 1093. Meets DOT requirements. Meets the requirements in Advisory Circular 20-42C, "Hand Held Extinguishers for Aircraft" and/or NFPA 408, "Standard for Aircraft Hand Portable Fire Extinguishers" 12-year shelf life. Fire extinguishers include a mounting bracket.

**RECHARGEABLE, STURDY INDUSTRY-STANDARD HALON 1211**

Required on commercial transport aircraft. Although classified a "liquid streaming agent," Halon 1211 also performs remarkably well as a "total flooding agent," seeking out and extinguishing fires in inaccessible places. A 6-year maintenance and 12-year hydrostatic test are required. Rugged steel cylinder. Pressure gauge enables easy confirmation of charge. Tested to ANSI/UL 711 and UL 1093. Meets DOT requirements. Meets the requirements in Advisory Circular 20-42C, "Hand Held Extinguishers for Aircraft" and/or NFPA 408, "Standard for Aircraft Hand Portable Fire Extinguishers". Fire extinguishers include a mounting bracket or a wall hook.

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**FIRE EXTINGUISHER BRACKETS**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Protection R.T. Extinguishers</th>
<th>Part No.</th>
<th>Range Price</th>
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<td>BKT800</td>
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<td>845</td>
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<td>For the A344TC Fire Extinguisher</td>
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<td>8175</td>
<td>For the C352TS, C352TSC, C354TS Fire Extinguisher</td>
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<td>$12.80</td>
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</table>

**H3R BILLET MOUNTS**

H3R Performance hand held 1 lb. and 2.5 lb. fire extinguishers come standard with aviation style mounting brackets. Stylish and versatile billet mounting accessories are also available. Band clamps fit 2.6” or 3.0” diameter fire extinguishers, and can be combined with the flat surface mount or either of the two roll bar mounts. Available in polished and brushed finishes. One year limited warranty. Brushed - Band clamp for 2.5 lb. fire extinguishers. ........................................ P/N 13-06067 $63.85

**SAFECRAFT FIRE EXTINGUISHERS**

A feature not found on other extinguishers is the "swivel" head design. The discharge head can be rotated to align the pull cable, which provides more installation flexibility. The aluminum cylinder is U.S. DOT approved and is capable of being refilled by Safecraft Inc. The extinguisher will accept two separate discharge lines, which allows installation flexibility currently not found in competing fire extinguishers. White powder coated cylinder with red aluminum anodized head. Designed to be mounted in the "head down" attitude. 5 lb. ........................................ P/N 13-01633 $796.00 10 lb. ........................................ P/N 13-21465 $1,029.00

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**RESCUE LASER FLARE MAGNUM™**

An handheld nighttime laser signaling device that provides a convenient, effective way to signal a rescue party up to 20 miles (32 km) away, depending on atmospheric conditions. It’s ease of operation, long life and waterproof design makes it perfect for survival signaling device. Unlike conventional pyrotechnic flares, the Rescue Laser Flare™ is non-flammable, non-hazardous and can operate continuously for 72 hours on two replaceable AA batteries.

72 Hour ........................................ P/N 13-01924 $82.75 15 Hour ........................................ P/N 13-01923 $89.95

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**OCEAN SIGNAL SAFESEA GMDSS HANDHELD VHF RADIO**

The Ocean Signal range of survival craft VHF hand portable radiotelephones exceed the requirements of IMO, SOLAS and GMDSS. Lithium Polymer rechargeable battery option available with rapid charger, for everyday normal use. Fully waterproof, even 40°C thermal shock. High efficiency transmitter for maximum battery life. Rugged design exceeds GMDSS environmental requirements. Lithium primary battery for emergency use. Novel battery protection tab protects from inadvertent use. Battery classified as non-hazardous for shipment. Battery provides in excess of 16 hours typical operation, even at -20°C. (10% Tx, 10% Rx, 80% Squelched). Laser etched key legends for durability. High contrast, backlit LCD and keypad. Rugged accessory socket option; waterproof to IP68 for use with headsets, helmets, life mikes, etc. 4 scanning modes, D/W, T/W, scan and memory scan. 21 simplex channels according to IMO requirements.

Unit Only ........................................ P/N 13-20261 $682.00 Kit ........................................ P/N 13-20262 $867.00

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**ACTIVE EXTINGUISHING LINE**

Active Extinguishing Line is totally independent, 1kg, fire extinguishing system from any power source. Its main secret lies in the heat detector in a form of a line made out of special laser predriller polymer, which will react instantaneously to any source of heat or fire. This line (heat detector) is connected to reservoir containing fire extinguishing agent: hexafluoropropane (FE-36). Inside of the protected device (equipment) a loop made out of the heat detector breaks, creating a mini sprinkler, directly over source of fire or heat, extinguishing it instantly. In a moment of activation the system closed circuit switch collapses sending a signal informing of fire. For experimental aircraft only. Ask for status of pending STCs.

P/N 13-03266 ........................................ P/N 13-03266 $698.00

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**H3R QUICK RELEASE FIRE EXTINGUISHER BRACKET**


3” Bracket ........................................ P/N 13-18452 $72.75 4-1/4” Bracket ........................................ P/N 13-18453 $72.75 5” Bracket ........................................ P/N 13-18454 $73.75

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**RECHARGEABLE, DURABLE EPA-APPROVED HALOTRON 1™**

While it is less powerful pound for pound than Halon 1211, Halotron 1 offers all of Halon 1211’s clean agent benefits, and Halotron 1 is less damaging to the ozone layer. H3R Aviation offers two Halotron 1 fire extinguishers: one FAA-approved unit for aircraft use and one wheeled unit for the flight line/remote use. Both rechargeable extinguishers have pressure gauges and require a 6-year maintenance and a 12-year hydrostatic test.

72 Hour ........................................ P/N 13-01924 $82.75 15 Hour ........................................ P/N 13-01923 $89.95

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**EMERGENCY STROBE**

- Waterproof
- USCG approved
- Operates up to 60 hours
- Uses D battery
- Red lens available

Strobe ........................................ P/N 13-02681 $19.95

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Prices Subject to Change Without Notice

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SMOKE HOODS - LIFE VESTS

PROVISTA SMOKE HOOD

The Provista Smoke Hood provides 20 vital minutes of life-saving evacuation time. It is proven to protect from smoke and 98% of toxins created by fire, including: Chlorine, Ammonia, Acrolein, Hydrogen Chloride, and Hydrogen Sulfide. Lightweight and compact. One size fits all. Smoke hood easily comes out of its 8” x 6” x 1” vacuum sealed bag - ready for use in seconds. There is no front or back which allows the smoke hood to be put on quickly for panic situations. The rubber seal easily slips over your head and seals - not allowing any smoke through. The smoke hood provides 360 degree vision and 20 vital minutes to escape a smoke-filled room.

P/N 13-11343 ………. $189.00

POCKET SMOKE MASK

NASA graded high temperature resistance Polyamide Film resists heat up to 932 degrees. The seven layer filter stops and blocks toxic gases made from non-woven and activated carbon fibers Filters more than 20 minutes of toxic smoke from fire. One size fits all: Adults, Children and Infants. Designed to protect user from smoke in the event of a fire. Simple to use, easy to store. Fits in brief case. You can carry on luggage. Hood allows full 360 degree sight, talk and hearing capability. Heat Resistant – resists heat up to 932 degrees F. Provides up to 20 minutes of filtered breathable air. Five year shelf life.

P/N 13-17891 ……… $39.95

IEVAC SMOKE MASK / FIRE HOOD

The iEvac Smoke Mask/Fire Escape Hood is the only smoke/fire hood certified to the American Standard ASTM E2952-14. It protects against fire-related gases including carbon monoxide, hydrogen cyanide, smoke, & hydrogen sulfide. The iEvac contains a HEPA filter that removes more than 99.97% of sub-micron particles such as ebola, anthrax, smallpox, and radioactive particles. One universal size can be put on in under 30 seconds. The hood features easy-to-breathe dual filters and is compact, lightweight, and vacuum sealed in a foil bag for a long shelf life. Its unobstructed field of view can be used with eyeglasses, beards, and long hair.

Mask………………………… P/N 13-18188 ………. $189.99
Belt Pouch………………………… P/N 13-18482 ………. $17.99

EAM AIC-35 UNIVERSAL LIFE PRESERVER

EAM’s Universal Series Life Preserver is designed with an open area collar to be placed over the head and onto the neck and shoulder area, so that the vest rest on the chest of the wearer over 35 lbs. The vest is secured to the wearer using a harness strap. Inflation is accomplished by either CO2 or oral inflation. Each vest is equipped with a light system assembly. The AIC-35 life preserver is also designed for use on infants and small children weighing under 35 lbs.

10 Year………………………… P/N 13-10006 ………. $58.75

EAM XF-35 LIFE VEST

Only 11.5 lbs. (513 grams). The XF-35 offers significant fuel savings to operators wishing to stay with the added security of a twin-cell vest. 5 year frequency of inspection standard. Inflated Buoyancy: 35 lbs. min. Approval: USA FAA TSO-C13f; German LBA Approval No. 40.321/33; United Kingdom CAA Approval No. AR0145, Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity: Functional Range: Up to 95% Relative Humidity; Storage Range: Up to 70% Relative Humidity Altitude: -2000 to 45,000 feet above sea level

5 yr. Passenger Yellow…………… P/N 13-12677 ………. $57.75
10 yr. Passenger Yellow…………… P/N 13-12685 ………. $62.75
5 yr. Crew Orange………………… P/N 13-12678 ………. $59.95

EAM UXF-35 LIFE VEST

This single cell vest is the lightest weight aviation vest in the world, weighing only .9 lbs (410 grams). 5 year frequency of inspection comes standard, 10 year version available. Approved: USA FAA TSO-C13f; German LBA Approval No. 40.321/33; United Kingdom CAA Approval No. AR0145. Storage Range: 0 to 140°F (-40 to 60°C); Temperature: Functional Range: -40 to 140°F (-40 to 60°C); Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity: Functional Range: Up to 95% Relative Humidity; Storage Range: Up to 70% Relative Humidity Altitude: -2000 to 45,000 feet above sea level.

UXF-35 ………… P/N 13-12679 ………. $49.75
UXF-35 (10 year)………………… P/N 13-12684 ………. $55.75

EAM BRAVO LIFE VEST

This continuous wear, yoke style life vest is ideal for helicopter pilots or anyone flying long distances over open water. Includes a 2-inch, extra wide, safety strap for comfort and security. Equipped with white light, retro-reflective tape and a whistle. Optional storage pouches attach to the waist strap to hold signal kit or EPIRB. Easy fold lines for repackaging. Functional Range: -40 to 140°F (-40 to 60°C); Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity Functional Range: Up to 95% Relative Humidity Storage Range: 0 to 70% Relative Humidity Altitude -2000 to 45,000 feet above sea level.

P/N 13-12680 ………. $242.95

REVERE AQUA LIFE JACKET LIGHT

The AQ40S is a compact flashing life jacket light, automatically water activated by its integral sensors or manually. Its unique size and shape makes the AQ40S ideal for a variety of life jackets.

Sensor Activated………………… P/N 11-14272 ………. $20.00
Lead Activated………………… P/N 11-14273 ………. $19.50

EAM INFRARED LIFE VEST

This specially designed and affordable life vest is made exclusively for children less than 35 lbs. (16 kg). EAM life vests come in USA and international versions for the constantly changing safety markets of commercial carriers.

With Co2………………… P/N 13-12681 ………. $92.75
Without Co2………………… P/N 13-12778 ………. $92.75

SURVIVAL PRODUCTS LIFE RAFTS

Perfect for general aviation. Small and compact it fits in a lightweight valise 4” x 12” x 14” and weighs only 12 lbs. But don’t be fooled by its size, price or weight. This raft will do the job for you under the most adverse condition. It provides a fresh water buoyancy of 190 lbs. per person and a deck area of 3.6’ per person which exceeds all Govt. standards. Inflated, the raft spreads the 68” outside and every square inch has been meticulously made from raw materials and components tested for their durability and life expectancy. Every raft is pressure tested and all seams and adhesive bonds rigorously checked prior to release. Raft includes sea anchor, bailer bucket, hand inflation pump, and CO inflation system. Optional survival equipment shown below. 6-13 person raft is 5’ x 12’ x 14’ and weighs 18 lbs. Available in non-TSO’d and TSO’d versions.

Non-TSO:

4-6 Person Life Raft………………… P/N 13-31610 ………. $1,893.00
6-13 Person Life Raft………………… P/N 13-31608 ………. $2,350.00
6-13 Person Basic Raft w/o canopy………………… P/N 13-31670 ………. $3,217.00
6-13 Person Basic Raft w/ canopy………………… P/N 13-31715 ………. $4,236.00

TSO Certified:

4-6 Person Raft w/91 equip………………… P/N 13-31690 ………. $3,388.00
4-6 Person Raft w/121 equip………………… P/N 13-31700 ………. $3,495.00
4-6 Person Raft w/135 equip………………… P/N 13-31710 ………. $4,065.00
8-12 Person Raft w/91 equip………………… P/N 13-31735 ………. $4,438.00
8-12 Person Raft w/121 equip………………… P/N 13-31755 ………. $5,420.00
10-13 Person Raft w/121 equip………………… P/N 13-31770 ………. $5,620.00
Raft with FAR91 kit 6M………………… P/N 13-05861 ………. $4,824.00

SURVIVAL RAFT ACCESSORY EQUIPMENT KITS

Far 91 Kits includes: canopy with inflatable mast, equipment container, signal flag, 3 signal flares, two cell flashlight with alkaline batteries, first aid kit, raft repair kit, sea dye marker, signal mirror, food rations, water rations, and signal whistle. Far 121 Kits includes: All of above plus: utility knife, survival manual and sponge. Far 135 Kits included: all of above plus: magnetic compass, eight pint desalter, fishing kit, 75 ft. retaining line, two paddles and radar reflector.

Far 91 Emergency Kit………………… P/N 13-31620 ………. $528.00
Far 121 Emergency Kit………………… P/N 13-31630 ………. $698.00
Far 135 Emergency Kit………………… P/N 13-31650 ………. $1,299.00

REVERE COASTAL COMPACT RAIT

Double 200 lb. SuperRev™ ballast pockets, it enhances stability in rough sea conditions. Its light weight allows for easy deployment and the compact size makes stowage easy in tight spaces. Operation is easy. Just open the red flap on the valve and extend the painter line. Give a hard pull and the raft inflates automatically in less than 30 seconds. Coastal Compact Raft is not recommended for offshore operation.

Raft Part No. Price With Canopy Price
2 11-07471 $1,056.00 $- 
4 11-07472 $1,285.00 $1,147.00 
6 11-07474 $1,500.00 $1,457.00 

Prices Subject to Change Without Notice
REVERE AERO COMPACT LIFE RAFTS
Ideal for general aircraft, the Aero Compact series offers an enhanced level of safety for over-water flights. With double 200 lb. ballast pockets, the Aero Compact enhances stability in the roughest of sea conditions.

Specifications:
- Weight: 13 lbs
- Dimensions: Packed (L”xW”xH”): 14 x 9 x 5
- 4 Person Canopy or Equipment Packs are included for 2-Person Aero Compacts.
- Weight: 13 lbs
- Dimensions: Packed (L”xW”xH”): 10”x4”x3”

REVERE AERO ELITE LIFE RAFTS
The Aero Elite offers both crew and passengers easy usage when facing the stress of a life threatening situation as opposed to other liferafts that can be difficult to lift and transport at the time of need. Vertical bulkheads inside divide the tube into two independent air-holding compartments. If one compartment is punctured, the other keeps you afloat. Offers a spacious 4 square feet per person. Inflatable floor, stowage pockets, zippered windows, flashing strobe, extra large ballast pockets, an extensive equipment pack including USCG/SOLAS flares plus much more. If serviced according to manufacturer’s specs, the Aero Elite offers a 12 year warranty.

SWITLIK INFLATABLE LIFE RAFTS
The Switlik ISPLR brings advanced military design and mission-proven durability to a single place life raft available for mariners and pilots who are serious about their personal lifesaving equipment. Fully reversible. The unique U-shaped design allows the raft to be fully reversible, allowing quick, easy entry from the water - whichever side is up when it automatically inflates. The ISPLR’s low slung floor design allows seating at a slight recline lowering the center of gravity well below the waterline, increasing stability in rough waters. Zip to the elements. Twin zippers, located on either side, allow you to partially close the canopy, keeping the elements out while providing great ventilation.

EAM SURVIVAL RAFTS
Each product is manufactured with the highest quality craftsmanship and are proudly FAA-TSO approved. In addition, EAM is proud to offer customizable raft packaging to meet any client’s specifications. When deployed and in the water, the raft may be boarded on either side. Survival items are contained in a kit tied to the raft. Select raft models include a raft canopy, inflatable floor and inside the accessories case, which features two (2) roll-up doors and a rain water collector in the top of the roof panel. The VIP and SAM Series life rafts have auto self-erecting canopies, which have two (2) doors which can be sealed closed with Velcro. Also, the VIP and SAM series canopies are affixed to the life raft with Velcro so if needed the canopy can be removed and reinstalled.

Prices Subject to Change Without Notice

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**SURVIVAL EQUIPMENT**

**SWITLIK TSO-C70A TYPE II OPP 8 PERSON LIFE RAFT**
SWITLIK’s OPP is designed to be a high quality, light weight, offshore life raft, with a convertible canopy system, 5-Year Service and heat sealed construction. The OPP provides 1,350 lbs of inflated buoyancy and 24 sq. ft. of floor area and offers excellent ventilation as well as total protection from the elements. Quality materials, superior construction.

Part 91 ............................................. P/N 13-21122 ................................ $5,799.00
Part 135 .......................................... P/N 13-21123 ................................ $5,998.00

**MUSTANG INFLATABLE BELT PACK PFD**
The Inflatable Belt Pack PFD from Mustang Survival fits around the waist like a belt, staying out of the way until you pull the inflation cord. Redesigned to fit and feel better with a great new look. The ergonomic design conforms to the body to provide a secure and comfortable fit and is backed with Mustang’s neoprene Comfort-Lining(TM) to reduce chafing when worn against the skin. The PFD operates by manual inflation, meaning it won’t inflate unless you pull the activation cord. Easy to wear and maintain, it inflates to provide 35lb buoyancy, more than twice the flotation of a traditional foam PFD. A great option for those looking for minimal bulk and wanting to control when their PFD inflates. Recommended for paddlers, paddleboarders, river fishermen and general recreational boaters.

P/N 13-17886 .................. $122.75

**EAM HELICOPTER LIFE VEST**
This twin cell vest comes in a standard or heavy-duty pouch engineered especially for use in helicopter tour operations. Pouch pack design buckles around the waist for constant wear. The life preserver can easily be pulled out and donned over the head with one quick motion, using a single hand.

P/N 13-22367 .................. $96.75

**MUSTANG INFLATABLE PFD REARMING KIT**
Designed to rearm your Mustang inflatable after deployment. This is a 1F Automatic and 3F Manual Inflatable PFD Re-Arm Kit.

E ............... P/N 13-20153 .................. $36.50

**THROWRAFT INFLATABLE PERSONAL FLotation DEVICE**
The TD2401 can be inflated manually with the pull tab or automatically by fully submerging it underwater. The device inflates quickly yet gently by filling itself with compressed air in a controlled manner. Once inflated, the TD2401 provides a sturdy, buoyant surface that’s easy to maneuver. After it’s been used, it can be easily repacked and recharged using a standard PFD re-arming kit.

Specifications:
- Packaged Dimension: 11” x 4”
- Inflated Dimension: 22” x 21”
- U.S. Coast Guard Approved............. P/N 13-21511 .................. $127.75

**CLOSED CELL NEOPRENE HOOD**
BREATHEABLE CONSTANT WEAR AVIATION COVERALL
The MA7348 Closed Cell Neoprene Hood offers increased protection against the elements worn with Mustang Survival anti-exposure gear. Designed for easy integration with the MSD906, MSD901, MSD585, MAC200 and MAC300, the hood provides exceptional head and neck insulation and includes a lanyard to tether hood to suit, an adjustable mouth gasket for protection from spray and a velcro attachment point for an emergency light.

Sizes: N/A or Universal Colors: RED

P/N 13-06380 .................. $60.75

**NOMEX FLIGHT SUITS**
This Nomex flight suit is built to military specification FNS/PD 96-17 (MIL-C-83141A) as worn by all U.S. flight crews. Constructed of 92% Meta Aramid, 5% Para Aramid and 3% conductive fiber fabrics, which makes this garment flame-resistant. Features a two-way zipper with pull, six primary pockets, adjustable waist belt with VELCRO® brand fasteners, knife pocket on the left inseam, pencil pocket on the left sleeve and a gusseted back.

Features:
- Made with DuPont™ Nomex® N303 Fiber: Its thermal technology helps protect against hazards associated with electric arcs and flash fires including intense heat and flame. It is protection that’s built into the fiber itself. So, it can never be washed out or worn away. • Sewn to Military Specification FNS/PD96-17(MIL-C-83141A) • As Worn By All US Flight Crews • Flame-Resistant Material • Two-Way Zipper with Pull • Six Primary Pockets • Adjustable Waist Belt with Velcro Fastener • Knife Pocket on Left Inseam • Pen/Pencil Pocket on Left Sleeve • Gusseted Back • Sage Green and Tan Flight Suits are Near Infrared (NIR) Compliant

| Color | Part No. | Prices at
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**EAM GENERAL SURVIVAL KIT**
This kit contains equipment for survival and search/rescue aids for use by aircraft crew and passengers after an emergency landing in uninhabited terrain. Collection of equipment designed for survival and search & rescue situations in case of an emergency.

P/N 13-12823 .................. $365.00

**INFLATABLE BELT**
Features include reflective tape on the bladder for greater visibility, 2" deluxe web belt with buckle, and single point indicator window. Inflates in seconds to over 35 lbs. of buoyancy. One size fits adults over 80 lbs. with 30 - 52” chest size. Will not inhibit your range of motion while hunting or fishing. U.S Coast Guard approved Type III. Rearm kit SBMRK.

Specifications:
- 35 lbs. of buoyancy (over 150 newton) • Equipped with single point indication of arming status • Reflective tape on cover and bladder for greater visibility • Safety whistle attached to bladder • 2" wide web belt with buckle • USCG Approved Type III • Rearm kit SBMRK

P/N 14-00681 .................. $138.95

**SNUGPAK CHRYSALIS SLEEPING BAGS**
Chrysalis is a sleeping bag that has evolved to the next level; putting you in control of temperature and comfort by transforming into a cool, cozy and spacious one, with a built in LED light to assist you. The bag boasts all the features of a quality Snugpak® mummy-style sleeping bag but the jumbo zip baffle can be opened out to give much more room within the sleeping bag by transforming into a cool, cozy and spacious one, with a built in LED light to assist you. The bag boasts all the features of a quality Snugpak® mummy-style sleeping bag but the jumbo zip baffle can be opened out to give much more room within the sleeping bag by transforming into a cool, cozy and spacious one, with a built in LED light to assist you. The bag boasts all the features of a quality Snugpak® mummy-style sleeping bag but the jumbo zip baffle can be opened out to give much more room within the sleeping bag by transforming into a cool, cozy and spacious one, with a built in LED light to assist you.

P/N 13-17869 .................. $200.00

**MODEL 1**
- Temperature Rating: 45°F to 36°F (7°C to 2°C) • Length: 87” • Weight: 35 oz. • Width: 30-24 • Pack Size: 6 x 6 x 6 • Fill: Softie® • Shell: Paratex (micro) with Reflectatherm • Liner: Paratex (light)

P/N 13-12457 .................. $119.00

**MODEL 2**
- Temperature Rating: 36°F to 27°F (2°C to -3°C) • Length: 87” • Weight: 46 oz. • Width: 30-34 • Pack Size: 7 x 9 x 9 • Fill: Softie® • Shell: Paratex (micro) with Reflectatherm • Liner: Paratex (light)

P/N 13-12458 .................. $139.00

**MODEL 3**
- Temperature Rating: 23°F to 14°F (-5°C to -10°C) • Length: 87” • Weight: 56 oz. • Width: 30-34 • Pack Size: 9 x 10

P/N 13-12459 .................. $159.00

**MODEL 4**
- Temperature Rating: 14°F to 5°F (-10°C to -15°C) • Length: 87” • Weight: 69 oz. • Width: 30-34 • Pack Size: 9 x 11

P/N 13-12460 .................. $179.00

**Paratex (micro) with Reflectatherm • Liner: Paratex (light) **

*Prices Subject to Change Without Notice*

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SWITLIK AVIATOR LIFE VEST
The Switlik Aviator Life Vest is supremely comfortable to wear, and specifically designed for the seated position in your aircraft. It’s the vest you’ll forget you’re wearing. The new interior cell folding technique combined with our latest V-Neck design allows the Aviator to lay over your shoulders relieving the pressure on your neck during those long flights. We have located our new beaded handle in the center of the vest for an easier approach for deployment. The breakaway safety feature eliminates the risk of snagging. The red handle also offers the best visibility in low light conditions. The Switlik Zipper closure keeps your inflatable vest secure at all times. The simple reliable dual breakaway design provides immediate inflation when activated. Backup oral inflation tubes are conveniently located on either side of the vest and easily reached through the side access flaps.

EV-35 Blue .............................................. P/N 13-16185 ........ $249.95
EV-35 Orange ........................................... P/N 13-16186 ........ $249.95

SWITLIK X BACK
AIR CREW LIFE VEST
The aptly named X-Back is ergonomically fitted to your shoulder contour for a perfect fit. As accessories are added the weight is distributed over your shoulders and off your neck for vastly improved comfort. The adjustable X-Back straps provide enough range making it one size fits all. The MOLLE (Modular Lightweight Load-Carrying Equipment) system lets you customize your vest with the accessories you need. The contoured cut of the MOLLE side panels locates the side access flaps away from your midsection. The simple reliable dual breakaway design provides immediate inflation when activated. Backup oral inflation tubes are conveniently located on either side of the vest and easily reached through the side access flaps.

X Back Blue ........................................... P/N 13-12688 ........ $389.00
X Back Orange ........................................ P/N 13-16186 ........ $389.00

SWITLIK AVIATION LIFE VEST AV-35H
5 Year ........................................ P/N 13-18410 .................. $72.99
10 Year ........................................ P/N 13-18413 ................ $76.99

SWITLIK AVIATION LIFE VEST AV-200
The Switlik AV-200 is the latest advancement in airline life vests. Offering airlines a lightweight, compact and inexpensive vest while meeting all the safety features required by the FAA. The AV-200 donning style features a single waist strap with a single adjusting buckle. Meets FAA/TSO C-13f Approval: 2 Year TBO.

Standard .................. P/N 13-16032 .................. $47.50
5 Year ........................................ P/N 13-18411 .................. $49.99
10 Year ........................................ P/N 13-18414 ................ $57.75

SWITLIK INFANT LIFE VEST
The ILV-20 is a dual chamber, 23-pound buoyancy Infant Life Vest (FAA/TSO-C13d defines “infant” as a wearer with a weight less than 35 pounds). The underarm configuration allows this vest to be underarm configured and used by wearers whose shorter necks prevent use of the standard “yoke-type” vest.

2 Year ........................................ P/N 13-18409 ........ $89.99
5 Year ........................................ P/N 13-18412 ........ $94.75
10 Year ........................................ P/N 13-18415 ........ $97.99

EAM UXF-35 LIFE VEST (10 YEAR)
This single cell vest is the lightest weight aviation vest in the world, weighing only .9 lbs (410 grams). 10 year frequency of inspection. Standard 5 year version also available (P/N 12-02255). TSO-C13f Approved.

Passenger Yellow .......... P/N 13-12684 ........ $55.75
Crew Molten Orange .......... P/N 13-21624 ........ $56.75

ION FLASHLIGHT FIRESTARTER™
During outdoor adventures, flights over remote areas, or in any emergency survival situation, there are two pieces of equipment that you never want to be without, a flashlight and a firestarter. Solo Scientific combined the two into one lightweight, compact, powerhouse of a product called the ion Flashlight Firestarter™.

The ion Flashlight Firestarter™ is a flashlight, a firestarter, a magnetic tool, has a safety mechanism, is knurled for grip, water proof, shock resistant, and can even be used to cauterize wounds in the field (by qualified medical personnel only).

The energy efficient ion Flashlight Firestarter™ will work in any environment that will support life and use a super bright (but energy efficient) white LED for illumination. ........ P/N 13-11695 .................. $118.75
SNUGPAK SOFTIE ELITE 3 SLEEPING BAG
Equipped with the unique easy to deploy EPS Expandable Panel System and its own sturdy compression stuff sack. Specifications: Temp. Rating: Comfort 23°F / Low 14°F (-5°C / -10°C) • Weight: 56oz • Length: 86” • Chest: 65” + EPS • Pack Size: 9” x 9” (fully compressed) $194.65

SNUGPAK SOFTIE 9 HAWK SLEEPING BAG
Temp. Rating: Comfort 23°F / Low 14°F (-5°C / -10°C) • Weight: 53oz • Length: 86” • Chest: 60” • Color: Olive • Pack Size: 9” x 9” (fully compressed) $75.65

SNUGPAK JUNGLE BAG SLEEPING BAG
The Jungle Bag is an ideal sleeping bag for tropical conditions. Traversoft Insulation was selected and chosen for its exceptional performance in hot and humid conditions. Concealed roll away mosquito netting which can be zipped over the face. Specifications: Temp. Rating: Comfort 45°F / Low 36°F (7°C / 2°C) • Weight: 27oz • Length: 86” • Chest: 60” • Pack Size: 6” x 6” (fully compressed) $319.00

PROFORCE DRI-SAK
Store your sleeping bag, clothing, and any other items you want to keep dry in a Dri-Sak™. They are seam taped, nylon with a TPU Film Lamination to ensure protection if other items you want to keep dry in a Dri-Sak bag. D-Rings for securing if necessary. Medium - Dimensions: 6.75” x 18.125” / 17 x 46 cm. Volume: 8 liters. Weight: 2.29 oz / 60 g. $75.65

PROFORCE PORTABLE WATER FILTRATION RADIOLOGICAL REPLACEMENT FILTER
Portable water filtration system replacement filter for the 28oz and 38oz portable water bottle and centrene. P/N 13-102002 $47.85

PROFORCE LENSATIC COMPASS
Lensatic Compass is great for anyone’s survival bag to help one if the situation arises where they are separated from their group, lost their way on the trail or find yourself in a dire drastic survival situation. P/N 13-12003 $24.95

PROFORCE MAP COMPASS
Map Compass features include: 3 scales, Liquid Filled, Map Symbol Drawing Holes, Lanyard included, Acrylic clear base w/ruler, Rotating Rings, Index lines, and Magnifier. 1.52oz. 5.51x2.36x.41. P/N 13-10204 $9.50

MULTIMAT SUPERLITE MAT
Offering the lightest and most compact options, using the very latest ultra light materials, meeting the highest standards for quality and reliability. Ultra-lightweight 20D rip-stop polyester top and base fabric. Quality ultra-lightweight, vertically drilled 14kg/m3 PU. Designed for lasting performance and full inflation. TPU membrane for air-tight seal. Easy valve can be locked while adding air by mouth. Mats supplied with stuff sack matching upper fabric, retaining band and repair kit. Size: 72” x 20” x 1” (1830 x 510 x 25mm). Weight: 18 oz (530g). Specifications: Temp Range: 5°F to 130°F (-15°C to +55°C) • Color: Olive/Black (reversible) • Compactness: 10.25” x 4.75” mid-folded (260 x 120mm) $75.65

PROFORCE EMERGENCY SURVIVAL BAG
The NDUR Emergency Survival Bag comes in a small compact packable size but yet opens into a full sized sleeping bag that will fit a fully clothed adult. It is made of a strong insulating material which reflects back 90% of the user’s body heat. It not only helps to provide protection in various weather conditions but also prevents and assists treatment of Hypothermia. P/N 13-08798 $8.50

PROFORCE COMBAT CASUALTY BLANKET
The NDUR Emergency Survival Blanket is made of strong insulating materials that reflects 90% of radiant body heat, reversible olive to silver. This large survival blanket provides emergency protection in all weather and prevents and assists treatment of Hypothermia. Blankets are used as first response for preventing hypothermia in trauma cases. Hypothermia in trauma cases occurs regardless of ambient temperature. Stopping heat loss should be initiated immediately. It can also be used as a signaling device for easy identification. P/N 13-08797 $4.35

SNUGPAK® IONOSPHERE
The Ionosphere™ by Snugpak® is an extremely small and compact 1 person tent. The Ionosphere™ has a very low profile and is great for those looking for a 1 person tent to keep out of the elements. Just like The Bunker™, the Scorpion 3™ and Scorpion2™ the Ionosphere™ also has a 5000mm PU Coated Fly. The Ionosphere™ has a single entry point, No-See-Um-Mesh and all seams are seam taped. A very impressive small compact tent by anyone standards. 1 Door. All seams are taped sealed Alloy Stakes (14 + 2 Spare Stakes), Comes with a Repair Kit to allow for repairs while on the move if needed. P/N 13-10260 $194.65

SNUGNUT
The Snugnut is an insulated hat and earmuffs in one. Constructed from the same high performance fabrics and Softie insulation used in our high performance sleeping bags this UK made deerstalker style hat is the ultimate in both day and night cold weather protection for your nut (AKA, Head) and ears. Black P/N 13-10267 $44.25

PILE PANTS
Temperature: 23°F / 14°F -5°C / -10°C. Team up these pile lined Paratex Light pants with either the Snugpak® Pile Smock or Pile Elite Smock for an exceptionally warm wicking base layer system. Designed to be worn next to the skin to maximize the moisture management properties. Weights: 23oz to 27oz (Depending on Size).

Size Olive Price Black Price
Small 13-10264 $179.25 13-10265 $179.25
Medium 13-10264-M $179.25 13-10265-M $179.25
Large 13-10264-L $179.25 13-10265-L $179.25
X-Large 13-10264-XL $179.25 13-10265-XL $179.25
XX-Large 13-10264-XXL $179.25 13-10265-XXL $179.25

Prices Subject to Change Without Notice
PROFORCE SURVIVAL PRODUCTS

PROFORCE ARMY FIRE STEEL & STIKER
Easy and safe to use – Used by Swedish Special Forces – Will light a fire or ignite the fuel in a camping stove in rain or snow – Generates a 3000 C spark – Approved, preferred and recommended by Survival Experts Worldwide. Approx. 12,000 Strikes P/N 13-08794 …………. $10.20

PROFORCE COMMANDO WIRE SAW
The strongest (over 100 lbs breaking strain) and most effective wire saw available. Cuts through wood, plastic, bone and even soft metals. Constructed using 8 strands of interwoven stainless steel wire, will easily reach inaccessible places. Attach rope to split rings on each end to cut higher branches. 24” sawing edge. Can also be used as a snare. Many uses for the outdoor and house. Retail Package …….P/N 13-08795 …………. $6.95

PROFORCE MARINE SAFETY WHISTLE
High pitched signaling whistle. NATO approved. One piece construction with lanyard hole. Bright Orange. Made in the UK. Ideal for Survival Kits ………….P/N 13-08801 …………. $1.35

PROFORCE HEAVY DUTY BUNGEE CORDS

PROFORCE EMERGENCY SIGNAL MIRROR
Robust high impact plastic. Easy to use with one hand. Suns reflection can be seen for many miles. Floats if accidentally dropped in water. Retail Package. Measures 2” x 3” ………….P/N 13-08796 …………. $6.80

PROFORCE COMBAT SURVIVAL TIN
Originally designed for the British SAS. Tightly packed in a useful metal tin. Contents include compass, whistle, candle, fishing kit, waterproof survival instructions, wind & waterproof matches, pencil, sewing kit, multi use flexible wire saw w/ split rings (can be used as a bow saw or snare wire), water tablets, safety pins, fire lighters, flint and striker and multifunctional knife w/ fold out scissors. Assembled in the US. Contents may vary. ………….P/N 13-08802 …………. $29.75

US AIR FORCE SURVIVAL HANDBOOK
Written for use in formal United States Air Force survival training courses, the U.S. Air Force Survival Handbook is the bible for pilots who want to stay alive—no matter what. 592 Pages. Standard Size 8.5” x 11” ………….P/N 13-08790 …………. $15.50

RESPONSE PACK
When travelling light, or when you may need to move out in a hurry, it pays to keep all your essential items together, with a place for everything this multifunctional carry case also doubles as a fanny pack, or as the British would call it, a bum bag. We use the same heavy duty materials in the Response Pak as we do in our series of backpacks. The Response Pak has a multitude of hidden internal storage pockets. The Response Pak has quickly become a favorite among military members as a great little red bag, perfect for those vital items each soldier needs. Supplies are NOT included. P/N 13-10261 …………. $24.65
Black ………….P/N 13-10262 …………. $26.50

THE SNAPPER CANOPY ESCAPE TOOL
The Snapper (Tool for canopy escape to break shards of plastic after flip-over for escape). This tool was developed specifically for the RVs. This little tool could really save the day in the event of a flip over in your RV. We learned that almost all flip overs result in the canopy being broken and cracked. At first glance one would say that is a good thing, and should help facilitate a speedy exit. ………….P/N 05-12378 …………. $8.95

BRITE STRIKE ULTIMATE PILOT LIGHTED SURVIVAL KNIFE
The hollow ground blade is hand finished to a razor sharp edge. Spring Assisted Opening is best in class. 45 lumen mini-aluminum LED white light. The light can be quickly removed from the body of the knife and operated independently. The rare earth magnetic base allows the light to be mounted on the blade for a 90 degree light. A second aluminum mini flashlight with red LED is included. Both LED mini flashlights are waterproof IPX-6. ………….P/N 13-16428 …………. $124.95

FLIGHT OUTFITTERS MULTI- TOOL
Why carry a toolbox when you can have all the essential tools right at your fingertips? This Multi-Tool has everything you need for quick repairs. Needle nose pliers deploy with a touch of a button, making one-hand operations. Durable stainless steel tools with an anodized aluminum handle will be a perfect addition to your flight bag. Packaged in a gift box and includes a carrying case. ………….P/N 12-20767 …………. $29.95

BRITE STRIKE ULTIMATE PILOT SURVIVAL LIGHT PACK
Brite Strike Survival Pack. This pack lasts for 200 plus hours, can be seen up to 1 mile and has 3 different modes. These are waterproof, dustproof and shockproof. Comes with a heavy duty 3m® Adhesive Back. Six different colors. Includes: 2 Green, 2 Infrared, 2 Red, 2 White, 1 Blue, and 1 Amber. ………….P/N 13-16429 …………. $49.95

BRITE STRIKE EXECUTIVE PRECISION LIGHTING INSTRUMENT
The EPLI™ is the perfect lighting instrument for any outdoor adventure. Super bright, waterproof and shockproof, it slips easily in a day pack or pocket. The EPLI™ has a strobe setting that can be used for SOS signaling and runs on easy to find low cost AAA batteries. Slim and sleek LED penlight made of high grade aircraft aluminum with a graphite anodized finish. The EPLI™ has the heart of a true rugged outdoor flashlight. ………….P/N 13-16430 …………. $69.99

BRITE STRIKE BRITRE-RESCUE SIGNALING SYSTEM
Brite-Rescue is an emergency lighted signaling system. Its ultra-compact size of 1.5” x 5” easily fits into the neoprene pouch and unrolls to 10” long. It has 6 internationally approved APALS-AIR® light strips, 2 photo-luminescent tape strips, 2 Solas radar reflective tape strips, and offers over 200 hours of signaling capabilities, or a total of 1200 hours if used individually. The APALS-AIR® has two strobe modes, one steady on and can be turned off and reused. The LEDs can be seen for 2 horizontal miles and 3 miles by air. It can be used on land and floats on water, so don’t take off on your outdoor adventure without one. ………….P/N 13-21052 …………. $69.95

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Prices Subject to Change Without Notice

WEB Site: WWW.AIRCRAFTSPRUCE.COM

503-271-3331

Fax: 503-888-3331

Coverage Magazine 

997
GLOVES – SURVIVAL KITS

GENERAL UTILITY PLUS GLOVES

All-purpose and abrasion-resistant. This is the ideal performance work glove. Heavy duty non-slip reinforcement on the palm, fingers and thumb ensures lasting durability and grip. The ergonomic design reduces hand fatigue while enhancing wrist support. Features a Terry cloth brow wipe on the palm. This glove is ideal for any number of rugged applications.

Features: • Durable non-slip reinforcement on palm, fingers and thumb • Neoprene cuff adds support and secures fit; click here for more detailed sizing instructions • Breathable stretch nylon on top of hand wicks moisture and heat • Terry cloth thumb for wiping sweat and debris • Machine washable/air dry

Large ...............................................................P/N 13-09814 ..........................................$22.50
X-Large ............................................................P/N 13-09815 ..........................................$22.50

PRO XT GLOVES

Pro XT is an extra heavy duty glove designed for rugged applications and total hand protection. The non-slip reinforced palm, fingers and thumb ensures lasting durability and grip. The unique ‘one-piece’ saddle reinforces this critical wear area. The top of hand features double knuckle protection and moisture wicking fabrics. It also features a Terry cloth thumb wipe and supportive, velcro cuff and closure. If you are doing heavy duty work like logging, landscaping, demolition or farming - this is the glove for you.

Features: • Durable non-slip reinforcement on palm, fingers and thumb • Extra grip saddle extends over index finger and thumb • Double knuckle protection on top of hand • Extended cuff protects wrist bone and adds support • Extensive reinforcement and protection for rugged applications • Machine washable/air dry • Click here for more detailed sizing instructions

Medium ..................................................................P/N 13-09819 ..................................$24.95
Large ........................................................................P/N 13-09820 ..................................$25.50
X-Large ....................................................................P/N 13-09821 ..................................$25.50

WATERPROOF WINTER PLUS GLOVES

Waterproof Winter Plus is the ultimate winter work glove. 100% Waterproof and windproof, this glove is designed to keep your hands warm and dry without sacrificing dexterity. Triple layer technology of micro-fleece liner, waterproof membrane, and form-fit outer shell. Durable, dexterous, comfortable and warm - if you work or live in cold, wet winters you need this glove.

Features: • Waterproof, windproof and breathable inner membrane keeps hands warm and dry • Durable, form-fit outer shell maintains dexterity • Flexible Clarino™ non-slip palm reinforcement • Grips in wet and dry conditions and increases durability • Internal knuckle protection on top of hand • Double-stitched bonded nylon thread for extended life • Terry cloth thumb for wiping sweat and debris (or nose) • Machine wash/line dry

Medium ..................................................................P/N 13-09822 ..................................$35.50
Large ........................................................................P/N 13-09823 ..................................$35.50
X-Large ....................................................................P/N 13-09824 ..................................$35.50

MAGID ROC GP110 GREY GLOVES

Made from an ultra-soft, grey, high-density, 13-gauge, seamless machine knit nylon blend, the ROC GP110 Work Gloves feature a full black micro foam coating offering exceptional comfort, flexibility, dexterity and added protection to the palm and back of the hand. Micro foam nitrile coating improves upon the softness of standard nitrile while delivering a superior grip in dry or oily conditions. The nylon blended shell is ultra-soft and breathable. In addition to its comfort-enhancing properties, the ROC GP110 Gloves provide protection against cuts and abrasions, offering ANSI Cut Level 1 protection and ANSI Level 4 abrasion resistance.

ROC GP110 Gloves have color coded knit wrists with matching color overcasts for easy sorting and dispensing and incorporate a rubber band edge finish to help prevent unraveling.

Size 11 ....................................................................P/N 13-09638 ........................................$4.95

FLIGHT LEVEL 220 SURVIVAL KITS

Flight Level 220 is a brand built on the importance of having the proper equipment in an emergency situation. Safety and survival start with preparedness; we make this easier by providing high quality first aid and survival products incased in durable materials to survive the elements.

Our products are designed by pilots with many hours of experience, with the understanding of safety in the forefront of all operations. Our team also consists of emergency and medical professionals that are on the front lines for first responders. Together we designed FL220 family of products to meet or exceed all aviation regulations.

Quality and integrity in our products and service are the most important part of our business. We stand behind our products and support our customers around the world. Aviation safety is our passion and mission. We strive to make your next flight better prepared with more confidence in your safety.

STANDARD

Flagship kit from Flight Level 220. Combining a jungle kit, first aid and survival kit in to one practical unit. Over 100 item to assist you in any challenge, including rendering first aid, signaling, fire, shelter, and fluid, food replacement. All this in a water tight, dust proof, crush proof Pelican Case. Essential for over water or over jungle flights. Safety comes with preparation for any situation. Meets and exceeds INAC requirements.

Specifications: • 10.62” L x 9.68” W x 4.87” D. • 7 lbs (3.2 Kg Approx.)

P/N 13-15955 ………..$357.00

LITE

The FL220 Survival Kit Lite is the perfect fit for the pilot that invest in safety. General aviation can only be safe with the right safety equipment on board. FL220 has put together and array of essential and “what if” items in a small durable case to cover any situation. Pilots think safety first and Flight Level agrees. Meets and exceeds FAA Far 91 requirements.

Specifications: • 9.12” L x 7.56” W x 4.37” D. • 8.5 lbs (3.9 Kg Approx.)

P/N 13-15956 ………..$193.75

FAA

The FL220 First Aid Kit is built to ensure its integrity in any situation. The Pelican case gives its users confidence in the content when needed most. Design to meet and exceed FAA Far 91 • 121 • 135 requirements as well as other aviation authorities. Each Kit is inspected and secured with a numbered break-away tag.

Specifications: • 11.64” L x 8.34” W x 3.78” D. • 3.5 lbs (1.6 Kg Approx.)

P/N 13-15957 ………..$139.95

FAA LITE

The FL220 Expanded Survival Kit was design to exceed all expectations for safety and survival. Equipped for commercial or general aviation aircraft, it stands ready for any situation. FAA FAR 91, 121, 135 - INAC.

Specifications: • 10.62” L x 9.68” W x 6.67” D. • 8.5 lbs (3.9 Kg Approx.)

P/N 13-15958 ………..$457.00

Prices Subject to Change Without Notice
TWO-MAN V.I.P. SURVIVAL PACK
It’s staggering just how much useful equipment comes out of this 10"h x 11"w x 4"d backpack. Everything arranged logically and available the way you’d want it. Organized into 6 major divisions: medical/first aid, food & water, shelter & protection, fire & cooking, signals & lights, & emergency devices. Weight: 20 lbs.
P/N 9217 .............. $282.95

NYLON CASE FIRST AID KITS

MODEL A FIRST AID KIT
International Orange Case Velcro Hold-Downs 10 FA Unit Kit Contents: • Bandage Adhesive Bandages (16) • First Aid Instruction Book • Adhesive Tape (2 Rolls) 1/2" x 2-1/2" yards each • 24" X 72" Gauze Compress • 4" Bandage Compress • Scissors • 2 Triangular Bandages 40" x 40" x 56" • Ammonia Inhalants (10 Capsules) • 6 Burn Gel Packs • Wire Splints 3-3/4" x 27" • PVP Iodine Wipes (10 Wipes) • Orange First Aid Case

MODEL B FIRST AID KIT
International Orange Case Velcro Kit Contents: • Burn Gel Packets • Aluminized Thermal Blanket • Sissors • Emergency Strobe • Hema-Flex 4" Bandage Compress • 36" X 48" Gauze Compress • 1" X 3" Adhesive Strips • 1/2" Adhesive Tape (2 Rolls) • 2 Triangular Bandages • Ammonia Inhalants • Wire Splints • PVP Iodine Wipes

FIRST-AID SAFETY SCISSORS
Angle Kit Plastic Handle Scissors 4 1/2" can be used in all first aid kits.
P/N 13-12036 .............. $1.95

AIRCRAFT EMERGENCY SURVIVAL KIT
This is an ideal emergency support kit for plane, boat, home, office or school. This kit will sustain a person for 3 days. Includes: 2400 calories of ready-to-eat US Coast Guard approved food, sterile Coast Guard approved water, a lightweight (54" x 48") durable, water-proof blanket, & assorted first aid supplies, matches etc.
P/N 9641 .............. $35.75

ODEO LED FLARE
Traditional flares will illuminate for around 30 seconds before extinguishing; the Odeo Flare™ illuminates for around 6 hours at full illumination. Because no pyrotechnics are used, the Odeo Flare™ is totally safe when switched off, and because it uses battery power (high power Lithium or Alkaline cells), it can even be safely posted or carried in baggage on flights.
P/N 13-18207 .............. $157.75

3M™ ULTRATHON INSECT REPELLENT
Unique, time-release technology allows you to enjoy the outdoors longer. Provides lasting protection — up to eight hours against mosquitoes, gnats, chiggers, biting flies and ticks. Helps reduce the risk of contracting West Nile Virus and Lyme Disease.
2 oz. Lotion
P/N 09-01723 .............. $6.90

FIXR 20 IN 1 POCKET UTILITY TOOL
The FIXR™ features an easy, portable solution for all of your everyday tools. Equipped with a quick release clip, this tool easily attaches to your key ring or belt loop. A gold plated revolving disc allows tools to be exposed while in use, so they are never in the way when you don’t need them.
P/N 13-18339 .............. $14.99

SMARTKNIFE 7 IN 1 UTILITY KNIFE
Much more than just a pocket knife…it’s a bottle opener, screwdriver, belt cutter, glass breaker, multi-size spanner and a knife all wrapped up in a high-grade stainless steel body. Handy belt clip and lanyard attachment included.
P/N 13-18552 .............. $16.99

UST BLASTMATCH FIRE STARTER
The patented BlastMatch™ generates a stream of super heated sparks literally three times the heat of a standard match. You can easily light any material (wood, paper, bark, cloth, or man-made fire starting tinder) that a match will ignite. Best of all, you can accurately aim the sparks to ignite a roaring fire in all weather conditions, and the BlastMatch™ will last up to an amazing 4,000 STRIKES.
P/N 11-10894 .............. $17.50

SPACE EMERGENCY BLANKETS
This “two ounces of protection that fits in the palm of your hand” is about the size of a deck of cards when folded, but opens into a 56" (142cm) tough and durable thermal reflective blanket. The Space Emergency Blanket has helped save countless lives, by providing needed personal protection from the harsh elements of Mother Nature. Available in orange on one side and silver on the other, a combination providing greater air-to-ground visibility, particularly against a snow or water background.
P/N 13-06393 .............. $4.35

TRAFFIC WAND
This lighted traffic directing wand comes with 6 colored lense discs that change the color glow of the white tapered top. Features: • GSA compliant for US military use • Made in the USA of sturdy plastic • O-ring sealed for waterproof operation in rainy weather • Lenses (2-red, 1 ea. amber, white, blue, & green), as well as a spare light bulb are conveniently stored in the end cap.
P/N 14-00902 .............. $22.85

LIGHTED LINEMAN WANDS
• Used by US Air force • Up to 400 hours operation • 17" long • Waterproof to 3' • Uses 2 D batteries (not included) • fluorescent coated diffuser enhances red light output.
P/N 13-08995 .............. $29.75

LED AIRCRAFT PARKING WAND 22" RED LED
Mini LED Signal Lite with 6 LED’s. 500+ Hours Runtime with 2 D Batteries. Great for Cars or for Security Uses. LED Bulb Signal/Traffic Lite. 6 Sets of LED Lites. Ultra High Visability. 21 Inches length. Tough ABS construction. 400 Hour battery life.
22" Red
P/N 11-10803 .............. $17.95
22" White
P/N 11-10804 .............. $42.50

STROBEWAND LIGHT
The Strobewand is a hand held, battery powered warning light wand. Designed as a durable, quality-built, essential for traffic control. The Strobewand quickly attracts attention on the ramp. This Strobewand can be operated in the steady state or, with a flip of the switch, produce up to 120 flashes per minute. And readily tucked in a trunk or hung from the belt.
P/N 14-00833 .............. $42.70

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Prices Subject to Change Without Notice
EMERGENCY SURVIVAL KIT
Specially designed by a focus group, the ESK-02 makes it easy to be prepared for life’s little surprises. Each kit contains over 40 medical and general supply items including a guidebook that offers survival tips and information. Designed to support one person for up to three days, the ESK-02 carries a five-year shelf life on food and water. Its affordable price makes it a great choice as a premium/incentive item, corporate gift, or employee award.

P/N 13-03606 $36.50

THE TRAVELER KIT
The Traveler Kit - Personal Care Package is appreciated by everyone from busy executives to sports enthusiasts. It’s the perfect addition to any car as the “other spare” to have on hand for life’s unexpected moments. Designed to support one person for up to three days, it contains over 50 support items in a custom nylon carrying bag with reinforced straps. “The Traveler” is ready to go anywhere.

P/N 13-03607 $65.75

EMERGENCY BLANKET
This Emergency Blanket (52” x 82.5”, 1.5 oz.) provides personal protection from wind, rain, heat, and cold. It’s manufactured from extremely lightweight, flexible, space-age material, and retains up to 90% body heat in cold weather. It even deflects heat in hot climates and can be used to offset hypothermic reactions. The Emergency Blanket is waterproof, reusable, and portable. It’s perfect for camping trips and sporting events in addition to emergencies. Keep several on hand for the unexpected!

P/N 13-03604 $2.95

FIRST AID ‘N TRAVEL KIT
Finally—a compact, complete travel unit for the person on the go! This kit fits perfectly in a purse, briefcase, or glove compartment, and is ready when you need it in first aid situations. This kit is very special because it’s the only one of its kind to include a 4 oz. sterile water packet with a five-year shelf life. Ask us about using this kit for fundraisers or corporate promotions. We can customize this kit to include your company’s logo!

P/N 13-03605 $12.50

ELMRIDGE® FIRE ESCAPE CAPE™
The Fire Escape Cape’s™ inherently flame resistant material and ease of use can help protect your body from harmful flames and can make you easily visible to first responders. With its built-in hood, the Fire Escape Cape™ also adds protection for your head and neck. A Velcro opening and built in ties help you secure the hood in place for easy maneuverability when fleeing an emergency. Note: Due to the nature of this product, this product cannot be returned.

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COCOON SLEEPING BAG
The All Weather Pocket Size Sleeping Bag The Cocoon Sleeping Bag (84” x 36”) provides personal protection from wind, rain, heat, and cold. It’s manufactured from extremely lightweight, flexible, space-age material, and retains up to 90% body heat in cold weather. It even deflects heat in hot climates and can be used to offset hypothermic reactions. The Cocoon is waterproof, reusable, and portable. Keep several on hand for the unexpected!

P/N 13-03603 $3.85

EMERGENCY FOOD RATIONS
Individualized portions eliminate the messy breaking-up that occurs with other bars Allows for on-land emergency consumption in a high-stress, active situation. Contains no cholesterol or tropical oils. Enriched with vitamins and minerals exceeding the RDA requirements. Pleasant lemon flavor which appeals to everyone. 5 year Shelf Life. Non-Thirst Provoking. Withstands Temperatures of 40°F to 300°F (40°C to 149°C)

- 13-03602: Ready to Eat- Each package contains 3 pre-measured 400 calorie meals.
- 13-03601: Ready to Eat: Each package contains 6 pre-measured 400 calorie meals.
- 13-03609: Ready to Eat: Each package contains 9 pre-measured 400 calorie meals.

Mainstay™ 3600 P/N 13-03599 $7.90
Mainstay™ 2400 P/N 13-03601 $6.50
Mainstay™ 1200 P/N 13-03602 $3.95

EMERGENCY WATER PACKETS
Mainstay™ Water Packets - All water is not created equal! Here at Survivor Industries we have spent years perfecting our Mainstay™ Water Packets. The final result is a portable product with a 5-year shelf life. Other Key Benefits: • U.S. Coast Guard approved • No Oxygen Transfer (In other words, no chance of bacterial contamination) • Pre-Measured Packets make the water easy to disperse, and potential for loss is minimized. If a packet is destroyed, only 4,224 ounces (125 ml) would be lost • Easy to Transport - just 18 lbs. (8.17 kg) per case of 60 packets • No special storage required - it can withstand temperatures from (-40°F to 210°F) (-40°C to 99°C) • Very Low Cost • No Cups Needed!

P/N 13-03598 $17.60

THE WALLACE GUIDEBOOK
For Emergency Care & Survival - When you’re faced with a disaster, you can often face physical and psychological strain. It’s often hard to remember what to do in an emergency situation, and this is exactly why we’ve written the Wallace Guidebook. This book is specifically designed to present the basics of survival in an extremely easy-to-understand manner. This book discusses the following topics, plus many more: Choking, Heart Attack, CPR, Shock, Burns, Emotional Trauma, Bleeding, Fainting, Wounds, Broken Bones, Fractured Bones, Back Injury, Childbirth, Auto Breakdown, Temperature Extremes, and the 1st and 2nd Rules of Survival. It’s not fun to be in one of these situations, but having a book like this nearby gives you a better chance of a happy ending.

P/N 13-03597 $6.50

EGEAR 30 DAY LANTERN
The eGear™ Lantern is lightweight and can double as hanging light when globe is removed. Three 1.4W Nichia LEDs Up to 300 lumens on “high” setting 4-Mode electronic switch (press button) HIGH, MEDIUM, LOW & SOS/FLASHING Amber LED Indicators show brightness levels. 30 days on ‘low’ mode, 3.5 days on “medium” mode, 32 hours on “high” mode, 15 days on SOS Flashing mode. Green LED indicator flashes “SOS” mode to show lantern location in darkness. Removable globe provides forward area light. Rubberized housing enhances impact resistance. Built-in recessed hood at lantern base for hanging as Downlight (see image below). Water and impact resistant.

P/N 11-10940 $38.50
CRASHKIT BRAVO SURVIVAL KIT
The 'Bravo' Personal Aviation Kit is designed for you. The Bravo Crashkit is small and compact, and includes 76 of the most essential items needed to survive. Kit includes basic first aid, light, fire, signal, shelter r and methods for providing clean water and food procurement. The kit is slightly thicker than the Crashkit ‘Alpha’, but still small enough to be carried easily in small flight bags, jacket pocket, glove compartment, map pouch or cargo pants pocket. Crashkit ‘Bravo’ weighs in a 1.6 Kilos or 3.5 lbs. While water resistant, crushproof and relatively small, this kit still exceeds all Transport Canada requirements for aviation survival. And with every item tried and tested to ensure it will work flawlessly for you when you need it most, you can count on the tools you need, when you need them

P/N 13-04685 ..........$266.95

CRASHKIT CHARLIE SURVIVAL KIT
Including 71 of the most essential items, this kit is extensive in its coverage of necessary tools and supplies. Packaged in a Pelican 1120 case, ‘Charlie’ is still compact and lightweight enough for easy transport and storage. Every item in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, as well as to ensure the ease of use for each individual piece. This kit meets or exceeds Transport Canada’s Canadian Aviation Regulations to facilitate survival and rescue. This kit now contains Aquatabs Water Purification and iodine. This crashkit is extensive in its coverage of necessary tools and supplies. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, as well as to ensure the ease of use for each individual piece. This kit contains 232 of the most essential items needed in a survival situation, packaged within an indestructible Pelican 1400 case. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, and meets or exceeds Transport Canada’s Canadian Aviation Regulations to facilitate survival and rescue. Dimensions: 13.37” x 11.62” x 6.00” (34 x 29.5 x 15.2 cm) Weight: 17.5lbs Contents: 232 items covering food, fire, water, shelter, and first aid Case: Pelican 1400 case - tough, watertight, polycarbonate case Kit Coverage: 4 people for 7 days (or longer dependent on situation) Optional Acc’s: Parachute deployment system; Warranty: Lifetime.

P/N 13-04691 ............$926.00

CRASHKIT 10:7 SURVIVAL KIT
The Crashkit 10:7 is intended for commercial aircraft. The Crashkit 10:7 has enough supplies to sustain ten people for seven days in the event of a crash. Various means of food, fire, water and shelter allow for multiple options; for example, this kit includes not only Mainstay food and water, but the means for purification, as well as hot chocolate or tea. Within this indestructible, crushproof and waterproof Pelican 1520 case, 733 of the most essential items needed in a survival situation are packaged and ready for easy use. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, and meets or exceeds Transport Canada’s Canadian Aviation Regulations to facilitate survival and rescue. P/N 13-22469 ..........$1,683.93

CRASHKIT 2-7 SURVIVAL KIT
As a pilot with a professional responsibility to others, you know the only best survival options. The ‘Crashkit 2-7’ has been designed for use in a typical GA light aircraft and contains over 200 essential items needed to sustain two people for seven days. This Aviation kit contains multiple options for the provision of food, fire and water, including Aquatabs Water Purification Tablets and the Spark-Lite Flint and Tinder kit. The kit is packaged in a Pelican 1200 case and remains lightweight and compact for ease of storage. As with all Crashkits, all products have satisfied rigorous testing to ensure they surpass Transport Canada regulations for aviation. Crashkit 2-7 exceeds all Transport Canada and Federal Aviation Administration regulations for both survival and first aid, 1.6 person. Dimensions: 27 x 24.6 x 12.4 cm (10.62” x 9.68” x 4.87”) Weight: 4.31 kg or 9.50 lbs........P/N 13-04690 ..........$529.95

CRASHKIT 4-7 SURVIVAL KIT
The Crashkit 4-7, designed for use in typical GA light aircraft and commercial aircraft, contains the materials necessary to sustain four people for seven days in the event of a crash. The variation of items within the kit allows for multiple options for food, fire, water and shelter. For example, in addition to the Mainstay food and water, a fishing kit and snare are also included. This kit contains 232 of the most essential items needed in a survival situation, packaged within an indestructible Pelican 1400 case. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, and meets or exceeds Transport Canada’s Canadian Aviation Regulations to facilitate survival and rescue. Dimensions: 13.37” x 11.62” x 6.00” (34 x 29.5 x 15.2 cm) Weight: 17.5lbs Contents: 232 items covering food, fire, water, shelter, and first aid Case: Pelican 1400 case - tough, watertight, polycarbonate case Kit Coverage: 4 people for 7 days (or longer dependent on situation) Optional Acc’s: Parachute deployment system; Warranty: Lifetime.

P/N 13-04692 ............$326.00

CRASHKIT 6-7 SURVIVAL KIT
Intended for commercial aircrafts, our Crashkit 6-7 has enough materials to sustain six people for seven days in the event of a crash. Various means of food, fire, water and shelter allow for multiple options; for example, this kit includes not only Mainstay food and water, but the means for purification, as well as hot chocolate or tea. Within this indestructible, crushproof and waterproof Pelican 1450 case, 261 of the most essential items needed in a survival situation are packaged and ready for easy use. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, and meets or exceeds Transport Canada’s Canadian Aviation Regulations to facilitate survival and rescue. Dimensions: 16” x 13” x 6.88” (40.6 x 33 x 17.5 cm) Weight: 22.80lbs Contents : 261 items covering food, fire, water, shelter, and first aid Case: Pelican 1450 case - tough, watertight, polycarbonate case Kit Coverage: 4 people for 7 days (or longer dependent on situation) Optional Acc’s: Parachute deployment system; Warranty: Lifetime.

P/N 13-04693 ............$1,195.00

SURVIVAL TOOL KIT
Total weight is 3 lbs. Custom designed, adjustable carrier pouch holds equipment. Can be worn around wrist, used as tourniquet or with wooden dowels as splint. Dwell with fire-starting, Blunt-lipped Meyerco Rescue One knife prevents injury, cuts seat belts and harnesses. Handle includes carbide glass breaker. Two emergency blankets. Emergency signaling mirror. Victorinox SwissTool includes: pliers, screwdrivers, wire cutter, cap lifter, blades, metal file and saw, wood saw, reamer and punch, chisel/scraper, crowbar, wrench, wire bender, stripper and scraper, can opener, ruler, electrical crimping. Two-sided screw bit holder with six bits and belt holder. Whistle. MINI MAG-LIGHT® flashlight. Knipex adjustable plier wrench. Magnesium fire-starting tool from Dean Machinery and Equipment.
PN 13-05676 ..........$299.95

MILITARY PILOT SURVIVAL KITS
Designed by Oregon Aero for the U.S. Navy. The durable carrier pouch is hand sewn by Oregon Aero with pockets for each item. Knife, fire starter and flashlight lanyards attached to carrier. Special permit permits access to tools without opening the carrier. 6.5” high, 5.5” wide, 2” thick. KIT includes: • Gerber® Multi-Tool created especially for this kit by Gerber and Oregon Aero • Gerber® Harrier Air Ranger II Folding Knife • Nexus™ 26DNL Compass • LED Task Light Flashlight • Sunscreen Packets • Vacuum sealed Balaclava • Strike Force™ Fire Starting System. Custom designed Multi-Tool includes pliers, wire cutter, file, awl, serrated sheep’s foot blade, knife/fish hook sharpener, assorted screwdrivers. ........P/N 13-05675 ..........$462.95

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Prices Subject to Change Without Notice
REVERE PARAHATCHET SURVIVAL CUTTING TOOL
Paracord handle unwraps to provide 8.2ft. (25m) of heavy duty cord for emergency use. Lanyard can be removed for additional 1.5 ft. (0.5m) of cord. 5mm black oxide-finished stainless steel blade. Includes nylon sheath with belt loop. Multi-sized hex wrenches. Quick-action rope cutter on back of blade. Built-in wrist lanyard included. Size: 10" x 4" x 0.5". Weight: 11 oz. P/N 13-15540 $17.50

REVERE PARAKNIFE 4.0 SURVIVAL KIT
Kit contents: ParaKnifeTM 4.0, PicoTM 1.0 LED Light, Liquid-filled Button Compass, Micro SparkWheel FireStarter, Light-MeTM Tinder, JetScreamTM Micro Signal Whistle, and StarFlash® Micro Signal Mirror. Size HxWxD: 8.7”x34x0.2" (220 x 34 x 4mm). Weight: 8.8 oz. (249g). P/N 13-15541 $23.95

REVERE SABERCUT CHAIN SAW SURVIVAL CUTTING TOOL
Flexible 24" blade cuts in a wide variety of angles and with very little clearance. Sharpens with standard 1/8" saw blade sharpener. "Pro" version includes carry case with hook-and-loop closure. "Lite" version comes without the carry case. Can be extended by simply adding extra rope to each handle. Lasts indefinitely with minimal routine maintenance. Self-cleaning saw teeth. Weight: 4.2 ounces (119g) (saw and case) P/N 13-15542 $23.75

REVERE SURVIVAL TOOL CARD
Thirteen tools protected by a hard plastic credit card-size case: • Attachment loop • Mini Phillips screwdriver • Large flathead screwdriver • Magnifying gloss • 8-sided bolt head wrench • Position wrench (4 different sizes) • Butterfly wrench • Large flathead screwdriver • Bottle opener • File edge • Sharp knife edge • Can opener • 2 inch/5cm ruler • Mini compass*. Size closed: 3.5"x2.2"x.5" Weighs 1.6 oz. *For optimum compass performance, separate compass portion from main unit P/N 13-15544 $3.35

REVERE WETFIRE TINDER PACK OF FIVE
Works in all weather and at all altitudes. Safe, lightweight and easy to carry. Cube form, individually packaged to maintain freshness. Over 1,200 degree Fahrenheit flame. For use with any ÚST or other sparking device. 5-year shelf life. Approximate size per cube: 1"x.75"x.5". Approx. weight per cube: 0.16 oz P/N 13-15545 $4.35

SNOW BROOM
The SNO BRuM offers pilots a way to quickly sweep snow off aircraft wings and away from the user. Great for high wing aircraft. The oversized head (6" x 17") is the largest snow remover available. The aluminum telescoping handle has special cold resistant nylon threads and extends from 27" to 46". Also great for cars, trucks, SUV’s, and awnings. P/N 13-04055 $19.65

REVERE COMPASS COMBO
Liquid-filled compass, fahrenheit thermometer and whistle. Break-away lanyard included. Size: 2.75”x1.75”x1.25” Weight: 6oz. P/N 13-15549 $2.64

REVERE DELUXE MAP COMPASS

REVERE LENSATIC COMPASS
Liquid-filled compass keeps north arrow steady. Clear base plate with magnifier for easy map reading. Multiple measurement scales for precise route planning. Adjustable marching line. Neck lanyard. Size: 3”x2.3”x.25”. Weight: 8 oz. P/N 13-15551 $4.75

SEE-ME DUO LIGHT
Personal Locator Light with a flashlight on one end and a strobe on the other. Steady-on mode: Provides 37 lumens of light. Runs 14 hours continuously on. Strobe mode: Provides 45 lumens of light. Runs 24 hours continuously flashing. Strobe role = 60 flashes per minute (1Hz). Lifetime LED is unbreakable and never needs to be replaced. Easy twist on/off. Impact and water-resistant IPX8. Wrist lanyard and hook/loop attachment strap included. P/N 13-15553 $26.75

NEBO POPPY LANTERN AND SPOT LIGHT
Poppy is a combination 300 lumen C-O-B (Chip on Board) LED lantern and bright LED spot light. Poppy is the perfect light for indoor or outdoor use when versatility and powerful lighting are critical. With a rubberized impact-resistant body, Poppy is both rugged and soft to the touch. Poppy easily changes from spot light to lantern with just a slide of its top, revealing a full 360° C-O-B lantern. The handle is designed to easily adjust to conveniently serve both light modes. 4 Assorted Colors (Yellow, Dark Grey, Red, Green). Lantern color is shipped randomly. P/N 13-20219 $16.99

REVERE WATER TIGHT CASES
This Watertight Case Keeps Valuables Secure and Dry. Holds keys, credit cards, and others mall essentials. Shatterproof polycarbonate case with o-ring seals for import and water-resistance. NOTE: Not intended for submersion). Lanyard and biner included.

<table>
<thead>
<tr>
<th>Dim.(Inch)</th>
<th>HxWxD</th>
<th>Weight</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<td>6.25&quot;x14&quot;x1.5&quot;</td>
<td>2.6 oz. (74g)</td>
<td>Holds iPhone® or Samsung Galaxy® (or both together)</td>
<td>13-15548</td>
<td>$5.35</td>
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ACR FIREFLY PRO SOLAS EMERGENCY DISTRESS STROBE LIGHT

The Firefly PRO emergency strobe light boasts a light output power management system that produces over 41 candela of light per strobe for up to 56 hours of use with AA lithium batteries. Using wide light emission LEDs, it cuts through the foulest conditions creating a super-bright flash visible for over 3.5 miles.

Specifications: • Size: 4.4 x 2.2 x 1.2 inches / 11.7 x 5.7 x 2.8 cm • Weight: 2.39 oz (68 g) (without batteries) • Operation: Manual ON/OFF switch • Waterproof: Factory tested to 33 feet. (10 m) • Lamp: LED - cool white • Strobe Intensity: 41 Candela (Strobe) • Strobe Visibility: Over 3 miles • Strobe Flash Rate: 60 P.M. +/- • Strobe Operation: 56 hours • Certification: SOLAS, USCG, MED, IMO LSA, CE.

P/N 11-14786 .......... $59.95

REVERE SEE-ME LIGHT

Both automatic and manual modes. Fast activation in water. Far exceeds USCG requirements for light output and duration. Waterproof/Weatherproof. For use with lithium (5 year) or alkaline (1 year) batteries (not included). Available with lifevest clip and lanyard. USCG Approved/SOLAS compliant. Typical Light Output is up to 1.6 cd (min. requirement by USCG is .75 cd). Typical Operation Time is 29 hrs (min. requirement by USCG is 8 hours)

P/N 10-04579 ............ $8.80

REVERE SEE-ME STROBE

Both automatic and manual modes. Fast activation in water. Far exceeds USCG requirements for light output and duration. Waterproof/Weatherproof. For use with lithium (5 year) or alkaline (1 year) batteries (not included). Available with lifevest clip and lanyard. USCG Approved/SOLAS compliant. Typical Light Output is up to 5 cd (min. requirement by USCG is .75 cd). Typical Operation Time is 120 hrs (min. requirement by USCG is 8 hrs)

P/N 10-04580 ............ $26.55

TINDER HOT BOX SOLAR FIRE STARTER SURVIVAL KIT

The Tinder HOT Box Solar Fire Starter™ is a tinder storage box that can start a fire using solar energy, and the inside top cover is also a signal mirror! The Tinder HOT Box Solar Fire Starter™ is used to store fire starter tinder in the air/water tight tinder box portion of the unit that is sealed from the elements using an o-ring seal. This keeps the damp air/water out so your tinder always stays dry! The Tinder HOT Box Solar Fire Starter™ is also a solar powered fire starter. It is designed to function in any environment that will support life; the Tinder HOT Box Solar Fire Starter™ will literally function for as long as our Sun shines and there is tinder to be found! As a matter of fact our Tinder HOT Box Solar Fire Starter will even function on other planets. 2.625 inches in diameter. .725 inches thick. Weighs only 4 oz. Can easily fit in your pocket.

P/N 13-13091 .......... $39.95

RESCUEME EDF1 OCEAN SIGNAL FLARE

The rescueME EDF1 electronic distress flare offers users a safe and long-lasting solution to visual signaling in an emergency. The light output is a beam of over 30° throughout the full 360° azimuth, providing in excess of 5 times more light coverage than other electronic flares. Light is also distributed throughout the hemisphere about the unit to ensure visibility from the air. Unlike single use pyrotechnic flares the rescueME EDF1 can be used repeatedly in any of its four modes, ensuring continued visibility is maintained over a longer period. The unit is both safe to store and operate while also eliminating any worries associated with disposal. The compact size and rugged design means the rescueME EDF1 is the perfect safety product for a grab bag, life raft or hiker’s backpack.

Replacement Battery Pack ....P/N 13-20241 .......... $161.75

P/N 13-20241 .......... $161.75

GOGIRL TRAVEL COOLIE

Includes re-usable tube, baggie and tissue. It’s a kit in a tube ready to go! Made from Medical Grade Silicone. Lavender with Pink Tube.

P/N 13-08566 .......... $10.50

FIREBOMB FRAGRANCE DEODORIZER

FIREBOMB is a water-based fragrance that provides lasting sensory enhancing aroma when you need it. It is safe and effective to use on interiors, carpets, upholstery, and everywhere else that can use deodorizing. Made in the U.S.A.

P/N 14-03330 .......... $10.85

Note: *GoGirl funnel sold separately.

Prices Subject to Change Without Notice

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1003
**THE ICEBOX PORTABLE AIR CONDITIONER**

The IceBox is a portable air conditioning system, for your airplane cabin, car, or boat. For Pilots: No more flying in a scorching hot cabin! Turn ON the IceBox during preflight and cool your cabin down before engine start. Jump in and experience a comfortable taxi and departure to a cooler altitude. Enjoy hours of IceBox cooling power and control your comfort with the wireless remote Pump and Fan controls. TIP: During cruise flight, Turn OFF the water pump at altitude to sustain the longest A/C possible. In Cruise Flight Mode – Keep the fan running to push cooler air through the cabin. For General Use: Use the IceBox portable air conditioner in any environment, with or without available electrical power. Cool down the car or boat with the IceBox, and keep your engines off in the process.

**Specifications:**
- **Electrical:** 12V or 24V, Max Power Consumption 4.5 Amps
- **Dimensions:** 10"x13"x18"
- **Weight Empty:** 10lbs

**Voltage** | **Description** | **Part No.** | **Price**
---|---|---|---
12V | Wireless Unit | 08-16237 | $395.00
| Full System | 08-16242 | $536.00
| Wireless Unit | 08-16238 | $439.00
| Full System | 08-16243 | $576.00

**ICEBOX PILOT CABLE**

Pilot’s Cable to switch between ship’s power and Aux Battery (useful for preflight fuel stops and post-flight draining of the IceBox). P/N 08-16241 $59.99

**COOL MOVE TRAVEL COOLER**

Soft sided electric travel cooler with cigarette lighter car plug in. Cools without ice which leaves you more room for food and drink. Quiet, long lasting motor powered by 12V vehicle outlet. 14 quart capacity that holds up to 20 cans plus snacks. Collapsible cooler takes up minimal space and allows for easy storage. Iceless cooling power of thermoelectric technology that allows you to travel without the mess and inconvenience of ice. Digital Thermometer indicates ambient cooler temperature. Made with high quality materials for durability and toughness that’s built to last. Plug in A/C adapter for use in the office, hotel room, camper, or dorm (not included). P/N 08-14007 $59.75

**KEWLFLOW PORTABLE COOLER**

The cooler or backpack that holds the ice and water can be easily refilled for continuous cooling over extended periods. Includes 12V Adapter, 4 quarts. 6429C includes 6429 Vest and Cooler. 100% Nylon Carrying Case. KewlFlow™ Portable backpack cooler. Unit includes water reservoir, pump, and power source. Insulated tubing and manifolds enable maximal cooling. Easy to use quick connectors allow for convenient operation. Can operate with variable power sources (battery, 12V, 110AC). Cooling Duration: Up to 3 hours. Typical users include nurses, surgeons, and others needing personal cooling relief.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
</table>
Small | 13-15507 | $661.00 |
Medium | 13-15507-M | $661.00 |
Large | 13-15507-L | $661.00 |

**KEWLFLOW PORTABLE BACKPACK**

KewlFlow™ products use a combination of ice water and pumps to push cold water through special tubes built into vests. This allows for a continuous flow of cool water around the upper body, keeping the user cool and comfortable in any condition. The backpack that holds the ice and water can be easily refilled for continuous cooling over extended periods. Includes battery pack. 4 liters. 100% Nylon Back Pack with pump, and power source. Padded shoulder straps with variable sizing adjustments. Insulated tubing and manifolds enable maximal cooling. Easy to use quick connectors allow for convenient operation. Can operate with variable power sources (battery, 12V, 110AC). Cooling Duration: Up to 3 hours. Typical users include surgeons, motorcyclists, welders, painters, and others needing personal cooling solution. P/N 13-15510 $475.00

**CIRCULATORY COOLING VEST WITH STATIC COOLER**

Includes 12V Adapter. Includes Vest and Cooler. 100% Nylon Carrying Case. KewlFlow™ Portable backpack cooler. Unit includes water reservoir, pump, and power source. Insulated tubing and manifolds enable maximal cooling. Easy to use quick connectors allow for convenient operation. Can operate with variable power sources (battery, 12V, 110AC). Cooling Duration: Up to 3 hours. Typical users include motorcyclists, welders, painters, and others needing personal cooling relief. P/N 13-15508 $301.00

**CIRCULATORY COOLING VEST WITH PORTABLE BACKPACK**

Includes Vest and Backpack. 100% Nylon Back Pack with integrated water reservoir, pump, and power source. Padded shoulder straps with variable sizing adjustments. Insulated tubing and manifolds enable maximal cooling. Easy to use quick connectors allow for convenient operation. Can operate with variable power sources (battery, 12V, 110AC). Cooling Duration: Up to 3 hours. Typical users include motorcyclists, welders, painters, and others requiring a portable cooling solution. P/N 13-15508-2XL $775.00

**B-KOOL PORTABLE COOLING SYSTEMS**

Using a combination of ice and water, B-Kool™ provides up to an hour of 40º cool using just 10 lbs of ice and a minimal amount of water. B-Kool™ is NOT an evaporative cooler and works well in high Humidity areas. Capacity is 20 lbs of ice giving you over 2 hours of cool air. Kool-Flex, a flexible and expandable air duct. Can be expanded to over 2 feet and positioned so air can be ducted where you want it. Because the B-Kool™ weighs less than 10 lbs empty, you can easily move it from your Camper, Airplane, Boat or any area where either 12 or 24V DC current is available. Includes 12V Adapter. Includes Vest and Cooler. 100% Nylon Carrying Case. Cooling Duration: Up to 3 hours. Typical users include surgeons, motorcyclists, welders, painters, and others requiring a portable cooling solution.

<table>
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<tr>
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Small  | 13-15508 | $799.00 |
Medium | 13-15508-M | $577.00 |
Large  | 13-15508-L | $577.00 |

**VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE KEWLFLOW HEATING AND COOLING VESTS.**
YETI makes the world's best coolers. Extreme design and construction assure you a lifetime of extreme performance. No other cooler is as durable. No other cooler keeps ice longer. No other cooler compares.

**COOLERS**

**YETI® TUNDRA® COOLERS**

Extra-thick walls hold up to two inches of insulation for unmatched ice retention.

Rotomolded construction makes it armored to the core and virtually indestructible.

Pressure-injected commercial grade polyurethane foam in the walls and lid makes sure your ice stays ice.

### Coolers

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<td></td>
<td>Blue -</td>
<td>-</td>
<td>39 lbs</td>
<td>20&quot;</td>
<td>L 37&quot; W 18&quot;</td>
<td>13-3/4&quot;</td>
<td>L 31&quot; W 12-1/2&quot;</td>
</tr>
<tr>
<td>Tundra 125</td>
<td>White 13-19125</td>
<td>$549.99</td>
<td>48 lbs</td>
<td>20&quot;</td>
<td>L 40&quot; W 19-1/2&quot;</td>
<td>14-1/4&quot;</td>
<td>L 34&quot; W 14&quot;</td>
</tr>
<tr>
<td></td>
<td>Tan -</td>
<td>-</td>
<td>48 lbs</td>
<td>20&quot;</td>
<td>L 40&quot; W 19-1/2&quot;</td>
<td>14-1/4&quot;</td>
<td>L 34&quot; W 14&quot;</td>
</tr>
<tr>
<td></td>
<td>Blue -</td>
<td>-</td>
<td>48 lbs</td>
<td>20&quot;</td>
<td>L 40&quot; W 19-1/2&quot;</td>
<td>14-1/4&quot;</td>
<td>L 34&quot; W 14&quot;</td>
</tr>
<tr>
<td>Tundra 160</td>
<td>White 13-19126</td>
<td>$679.99</td>
<td>54 lbs</td>
<td>21-1/2&quot;</td>
<td>L 45&quot; W 19-1/2&quot;</td>
<td>15-1/2&quot;</td>
<td>L 39&quot; W 14&quot;</td>
</tr>
<tr>
<td></td>
<td>Tan -</td>
<td>-</td>
<td>54 lbs</td>
<td>21-1/2&quot;</td>
<td>L 45&quot; W 19-1/2&quot;</td>
<td>15-1/2&quot;</td>
<td>L 39&quot; W 14&quot;</td>
</tr>
<tr>
<td></td>
<td>Blue -</td>
<td>-</td>
<td>54 lbs</td>
<td>21-1/2&quot;</td>
<td>L 45&quot; W 19-1/2&quot;</td>
<td>15-1/2&quot;</td>
<td>L 39&quot; W 14&quot;</td>
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<tr>
<td>Tundra 250</td>
<td>White 13-19128</td>
<td>$899.99</td>
<td>70 lbs</td>
<td>21-1/4&quot;</td>
<td>L 55&quot; W 22-5/8&quot;</td>
<td>15-1/2&quot;</td>
<td>L 49&quot; W 17&quot;</td>
</tr>
<tr>
<td></td>
<td>Tan -</td>
<td>-</td>
<td>70 lbs</td>
<td>21-1/4&quot;</td>
<td>L 55&quot; W 22-5/8&quot;</td>
<td>15-1/2&quot;</td>
<td>L 49&quot; W 17&quot;</td>
</tr>
<tr>
<td></td>
<td>Blue -</td>
<td>-</td>
<td>70 lbs</td>
<td>21-1/4&quot;</td>
<td>L 55&quot; W 22-5/8&quot;</td>
<td>15-1/2&quot;</td>
<td>L 49&quot; W 17&quot;</td>
</tr>
<tr>
<td>Tundra 350</td>
<td>White 13-19129</td>
<td>$1,299.99</td>
<td>89 lbs</td>
<td>23-1/4&quot;</td>
<td>L 63-1/4&quot; W 24-1/2&quot;</td>
<td>18-3/8&quot;</td>
<td>L 57-1/4&quot; W 18-1/2&quot;</td>
</tr>
<tr>
<td></td>
<td>Tan -</td>
<td>-</td>
<td>89 lbs</td>
<td>23-1/4&quot;</td>
<td>L 63-1/4&quot; W 24-1/2&quot;</td>
<td>18-3/8&quot;</td>
<td>L 57-1/4&quot; W 18-1/2&quot;</td>
</tr>
<tr>
<td></td>
<td>Blue -</td>
<td>-</td>
<td>89 lbs</td>
<td>23-1/4&quot;</td>
<td>L 63-1/4&quot; W 24-1/2&quot;</td>
<td>18-3/8&quot;</td>
<td>L 57-1/4&quot; W 18-1/2&quot;</td>
</tr>
</tbody>
</table>

Visit www.aircraftspruce.com for more YETI products!
COOLERS - RV ACCESSORIES

YETI® HOPPER™ FLIP SOFT COOLERS

Meet the leakproof, tough-as-nails, carry-the-day soft cooler. Its wide-mouth opening makes for easy loading and access to your food and drinks. Its compact, cubed body means ultimate portability — go off road, onto the water, and back again with this personal cooler. And its extreme insulation means your ice is staying ice.

<table>
<thead>
<tr>
<th>Hopper Soft Cooler</th>
<th>Part No.</th>
<th>Price</th>
<th>Weight</th>
<th>Outside</th>
<th>Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLIP 8 13-21038</td>
<td>13-22252</td>
<td>$199.99</td>
<td>2.8</td>
<td>6&quot; x 10-1/2&quot; x 11-1/2&quot;</td>
<td>6-1/4&quot; x 7-1/2&quot; x 9-3/4&quot;</td>
</tr>
<tr>
<td>FLIP 12 13-21090</td>
<td>13-22254</td>
<td>$249.99</td>
<td>3.1</td>
<td>10&quot; x 11-1/2&quot; x 12-5/8&quot;</td>
<td>8&quot; x 9&quot; x 11&quot;</td>
</tr>
<tr>
<td>FLIP 18 ---</td>
<td>13-22492</td>
<td>$299.99</td>
<td>5.1</td>
<td>10-3/4&quot; x 13&quot; x 16-1/4&quot;</td>
<td>8-1/2&quot; x 10-1/4&quot; x 14-1/4&quot;</td>
</tr>
</tbody>
</table>

YETI® TANK®

The best times in life seem to involve good friends, family, and a healthy supply of ice-cold drinks nearby. So we designed the YETI TANK to be the perfect centerpiece of all the fun. This nearly indestructible party machine is packed with our patented cold-holding insulation to keep your next backyard barbecue, tailgate, or beach side bonfire wilder, longer. ROTOMOLDED CONSTRUCTION - Makes it armored to the core and virtually indestructible. NO SWEAT™ DESIGN - Keeps it dry on the outside.

<table>
<thead>
<tr>
<th>Cooler</th>
<th>Part No.</th>
<th>Price</th>
<th>Weight</th>
<th>Exterior</th>
<th>Interior</th>
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<tr>
<td>TANK 85</td>
<td>White 13-19137</td>
<td>$249.99</td>
<td>20 lbs</td>
<td>19-1/2 &quot;</td>
<td>L 25-1/2&quot; W 25-1/2&quot;</td>
</tr>
</tbody>
</table>

YETI® RAMBLER™ DRINKWARES

The Rambler series of drinkware is the first line of YETI you can fit in your hand. And, yeah, they over-engineered them to be virtually indestructible and keep your drink as cold (or hot) as science allows. With 18/8 stainless steel construction, double-wall vacuum insulation, and No Sweat™ Design, they’re perfect for the deer lease, cleaning table, or just the times between your outdoor adventures. 18/8 STAINLESS STEEL - Made with kitchen-grade stainless steel, so they’re puncture- and rust-resistant. DOUBLE-WALL VACUUM INSULATION - Keeps cold drinks cold and hot drinks hot until the last sip. NO SWEAT™ DESIGN - Keeps fingers dry and unfrostbitten.

<table>
<thead>
<tr>
<th>Rambler</th>
<th>Size</th>
<th>Outside</th>
<th>Stainless</th>
<th>White</th>
<th>Seafoam</th>
<th>Brick Red</th>
<th>Black</th>
<th>Tahoe Blue</th>
<th>Charcoal</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rambler 10 Lowball</td>
<td>10 oz.</td>
<td>4 1/8&quot;-3 1/2&quot;</td>
<td>13-19154</td>
<td>--</td>
<td>13-19828</td>
<td>--</td>
<td>13-19830</td>
<td>--</td>
<td>--</td>
<td>$19.99</td>
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<tr>
<td>Rambler 30 Tumbler</td>
<td>30 oz.</td>
<td>7 7/8&quot;-4&quot;</td>
<td>13-20691</td>
<td>13-21239</td>
<td>13-20687</td>
<td>--</td>
<td>13-20689</td>
<td>--</td>
<td>13-21323</td>
<td>$34.99</td>
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<tr>
<td>Rambler 18 Bottle</td>
<td>18 oz.</td>
<td>9 1/2&quot;-3&quot;</td>
<td>13-19157</td>
<td>--</td>
<td>13-19832</td>
<td>--</td>
<td>13-19834</td>
<td>--</td>
<td>--</td>
<td>$29.99</td>
</tr>
<tr>
<td>Rambler 44 Bottle</td>
<td>64 oz.</td>
<td>11-1/2&quot;-4-3/4&quot;</td>
<td>13-19159</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>$54.95</td>
<td></td>
</tr>
</tbody>
</table>

VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE YETI PRODUCTS!

THE NOSE JOB 1 FOR RV NOSE GEAR

Anti-Splat-Aero is very proud to offer this revolutionary product (THE NOSE JOB 1) as a partial solution to the nose gear fears of many RV-A model builders, current owners and potential buyers of these wonderful aircraft. After watching, reading, analyzing, researching and waiting for someone to offer up a solution we decided to go to work on the problem. This product allows the Van’s nose gear leg to function as designed without interfering with its dynamics or operation in any way.

The product only comes into play when the forces on the gear leg, if allowed to increase further, would become greater than the gear leg was designed to see or handle without permanent damage to itself or the aircraft. When operating your aircraft from an unimproved surface i.e. grass, dirt, poor runway surface or in an emergency off field landing this device could help prevent a costly repair, a propeller strike, engine disassembly for inspection or other damage may be avoided not to mention a dreaded possible flip over we have seen so many times.

P/N 05-12363 ........... $379.00

THE NOSE JOB 2 FOR RV NOSE GEAR

After many requests and many calls from other units, we are proud to offer this variation of our product " THE NOSE JOB TWO " as a partial solution to the nose gear leg fears of many RV-A model builders, current owners and potential buyers of these wonderful aircraft. Many of you requested a kit that would not require the fitting of a new fairing.

The preparation and fitting of the new fairing is a complex problem for a non-builder and most don’t wish to deal with it. Also many finished airplanes have very expensive and elaborate paint jobs and this is a deterrent to many people as well. So in response to the demand here is a "NOSE JOB TWO" kit that will fit under the stock Vans fairing and provide the same protection as our original unit. We now feel our product is the most logical, simple and inexpensive device that can be manufactured and installed in an effort to address these gear leg concerns.

P/N 05-12364 ........... $339.00

THE LIP SKID

Prevents nose gear from digging into turf on dirt and grass runways. This device was created to help prevent flip-overs of the Vans RV-A Models on irregular surfaces. It installs in the bottom of the nose gear, providing surface area to keep the gear leg from digging in on contact. Installation only takes a few minutes and can possibly prevent a flip-over and serious damage to your aircraft.

The center post is precision machined from 4130 grade aircraft steel as is the skid plate. Assembled and heat treated to a 45 rockwell, then zinc plated to provide a lifetime of protection for your aircraft. This comes with a vibration preventing O-ring for inside the gear leg and complete installation instructions to install inside the wheel pants out of sight. Total weight of this installed is 7 oz.

P/N 05-12365 .................. $95.00

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Prices Subject to Change Without Notice
PILOT RELIEF TUBES

HORN
Black molded plastic horn fits into horizontal or vertical brackets. Measures 2-3/8" diameter and weighs 1.3 oz
P/N 13-04168..................$19.70

HORIZONTAL BRACKET
Black molded plastic bracket for underseat installation.
P/N 13-04169..................$23.95

VERTICAL BRACKET
Black molded plastic bracket for vertical installation.
P/N 13-04170..................$19.50

VENTURI
Black molded plastic venturi mounts on fuselage bottom and produces required suction to horn and outlet tubes for fluid ejection
P/N 13-04171..................$37.50

HORN AND VALVE ASSEMBLY
Dimensions: Length: 8-31/64"; Top opening: 2-21/64"; Bottom opening: 3/16"; Weight: 4 ounces
P/N 13-04167..................$94.75

TEE AN8019-1
The material is RTP 152 black. 2-1/32" wide and 1" length
P/N 14-00051..................$0.86

CLASSIC™ UNCORED EARPLUGS 312-1201 IN A POLY BAG
• Slow-recovery foam helps ensure comfort and minimize pressure.
• Bright yellow color provides a quick visual compliance check.
• Dermatologically safe foam is non-irritating, nonflammable, and moisture-resistant.
• NRR 25dB. • ANSI S3.19-1974; CSA Z94.2; CSA Class AL. • P/N 9134.................$0.37/pair

PRESSURE REGULATING EAR PLUGS FOR CHILDREN
EarPlanes are a patented pressure-regulating earplug inserted in the ear to help reduce discomfort often associated with air travel. They were developed by Cirrus Healthcare Products LLC in conjunction with the House Ear Institute in Los Angeles, and have been tested by US Navy aviators at the Miramar Naval Air Station in San Diego
P/N 14-02837..................$7.95

PUMA METHOD FOR PREVENTION OF MOTION SICKNESS
A series of simple conditioning exercises, taught on VHS or interactive DVD, that effectively prevents the nausea, vomiting, lightheadedness, and other unpleasant symptoms experienced by over 50% of the population while traveling. Sam C. Puma MD, president of Puma Applied Science and former Air Force Flight Surgeon at NASA, developed these revolutionary new exercises to totally eliminate carsickness, seasickness, and even space sickness. Takes only about 15 minutes a day to do.
DVD.....................................$42.50

OZIUM AIR SANITIZER / FRESHENER
Eliminates smoke and offensive malodors caused by airborne bacteria. OZIUM is a product that sanitizes the air you breathe. It is clinically proven to eliminate odors, unlike current products that just mask odors. OZIUM combats airborne contaminants and eliminates odors with glycol-ized action...dispensing micron sized particles that linger in the air, attach to airborne bacteria and moldors to drastically reduce air pollution, purify and sanitize the air.
P/N 14-00061..................$10.50

THE BIFFY BAG
Personal disposable toilet system is a complete toilet that fits in the palm of your hand. Allows for a natural position. It has everything you need for a sanitary, discrete and comfortable experience.
3pk..................................$13.50
10pk..................................$36.75

LITTLE JOHN
Positively the least expensive accessory you can buy to extend your range. One authenticated case reports a Piper Malibu’s range extended by 500 miles. Durable plastic, won’t crack under any normal handling and temperature conditions. A light screw-on cap makes it spill proof. Standard issue in hospitals for years
P/N 9741.........................$10.95

LADY J ADAPTER
The anatomically designed funnel snaps in and out of the little John. It can be used sitting or even standing. Clean white plastic
P/N 9749.........................$8.99

G FUNNEL ADAPTER
The G-Funnel is a portable urinal adapter which simply screw on a plastic pop or water bottle that will be used as a container for those situations where a washroom facility is not available. Can be attached and used together with any sized plastic pop or water bottle that most people have on hand. A very useful relief device for those emergency situations
P/N 13-01974...................$7.99

FORENSICS CARBON MONOXIDE DETECTOR
A Small carbon monoxide detector for aircraft for aircraft that triggers alarms in line with air quality regulations, particularly important for health and occupational concerns for pilots. This product remains on calibration for 3 years
P/N 13-22019..................$99.00

TRAVEL JOHN
Absorbent pouch turns urine into gel instantly while destroying bacteria and odor. Specially designed colar works for men women and children; spill guard prevents back response, sanitary and compact. TravelJohn is easy to use while sitting or standing. Will not leak or spill, even if punctured. Holds 28 ft. oz. Includes antiseptic hand wipe, 3-pack
P/N 13-00894...................$5.50

CONVENIENCE BAG
Disposable urine & vomit bag. • Wide mouth. • No spill, cleanup, or odors. • One-hand use
P/N 13-02821...................$2.25

MOTION EAZE
Whether you want to prevent occasional motion sickness or relieve its symptoms, after the fact, Motion Eaze does the job. No matter, if it’s sea sickness, car sickness, air sickness or any activity where motion sickness poses a problem, Motion Eaze really works. Contains no drugs, artificial additives, or stimulants of any kind. Only the freshest, highest quality, natural oils are used in its production. Motion Eaze is an oil that is applied to, and absorbed through, the skin, just behind the ear.
P/N 13-02732...................$16.50

SEABAND WRIST BAND
The Sea-Band has been clinically tested against nausea and vomiting in travel, pregnancy, anesthesia, chemotherapy and all conditions which induce nausea. The Sea-Band is a knitted elasticized wrist band, which operates by applying pressure on the Nei Kuan acupressure point on each wrist
P/N 9411.........................$8.75/pr

SIC-SAC™
Use these for air sickness emergencies. Moisture proof and tear resistant even under extreme temperature changes. 10 packs, individually packaged, each with attached tie band.
Pack of 10......................P/N 9296...............$9.50
Pack of 100.....................P/N 9296-100............$95.00

FLIGHT DATA SYSTEMS GD-40 CARBON MONOXIDE DETECTOR
Integrates with most EFIS Systems - Connect via RS232 or a Switched Input. Audio Voice Alerts. LED and Discrete Warning/Status Outputs - Two color LED indicators, or interactive DVD, that effectively prevents the nausea, vomiting, lightheadedness, and other unpleasant symptoms experienced by over 50% of the population while traveling. Sam C. Puma MD, president of Puma Applied Science and former Air Force Flight Surgeon at NASA, developed these revolutionary new exercises to totally eliminate carsickness, seasickness, and even space sickness. Takes only about 15 minutes a day to do.

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1007
CO GUARDIAN CARBON MONOXIDE DETECTORS

AERO 353-101/201 - The AERO 353 has a built-in state-of-the-art CO sensor that immediately reacts to the presence of CO. It was designed for pilots. This unit is a derivative of Aero 452 (Panel Mount). This unit comes standard with specified sensor, stainless steel alligator clip and concussion-proof housing, Test cap and hose, Manual, Multi-language CD manual.

MODEL AERO 553 - Replaces the 225° clock and provides the latest CO protection that displays 3 to 999 ppm in the cockpit, as well as aircraft high and low voltage alarms, pressure density altitude readout for takeoff. Cabin altitude alerts to remind you to go on oxygen. CO level, cabin pressure and temperature to be displayed on the UPS AT CXN800...P/N 13-02569...$699.00

Aero 553 OAT Probe ...P/N 13-06165...$140.75

AERO 451- The CO Guardian 451-101 panel mounted Carbon Monoxide (CO) detector is designed especially for FAA certified Part 23 aircraft and Part 7 and 29 rotocraft. A compact and lightweight unit meant to use in as little panel space as possible, the 451-101 attaches to the cockpit in a small pulse motor with BLE connectivity that provides real-time visibility into the status and safety of hazardous-area engines such as cars, airplanes, and lawn mowers or from any poorly vented or improperly adjusted fuel burning appliance

Model 451-101 Panel Mount...P/N 13-21110...$478.00

Model 451-201 Remote Mount...P/N 13-21111...$399.00

AERO 452- Input Power-14 / 28 V DC Power Usage-Less than 1 Watt, 10 Watts with heater ON. Temp Range - 20°C to 55°C. Inspection - Each unit is 100% tested. Humidity - 5% to 95% RH (non-condensating). Circuit Breaker-2 Amp. Design-Meets MIL-SPEC and transmits data to the MFD’S via RS232. Current usage of 0-1000 ppm and comes complete with a soft case, a wrist band, LCD dual digital display • Bright backlight • Auto zero • Auto zero • CO range: 0–9999 ppm • Resolution: 1ppm • Battery life is 250 hours when the backlight is off and 35 hours with backlight on

AERO 551- Is fast responding to CO threat detector that is designed to standard 2 1/4 hole. This unit is our most sophisticated CO detector that has an extremely fast response. The 551 unit shows continuous CO Level from 10PPM to 999 PPM.

P/N 13-06919...$589.00

HONEYWELL BW SOLO WIRELESS BLUETOOTH CARBON MONOXIDE MONITOR

Honeywell BW™ Solo is a easy to service single-gas detector with BLE connectivity that provides real-time visibility into the status and safety of hazardous-area workers, helping companies respond faster, more knowledgeably and decisively to safety incidents. Features: User-friendly operation • Easy-to-read display for multiple languages • Lightweight convenience • Ease of maintenance • Serviceability • The new 1-Series sensor for enhanced reliability • Connected Bluetooth Low Energy (BLE) capabilities...

P/N 13-22414...$1436.38

AITHRE SHIELD 4.0 CARBON MONOXIDE DETECTOR WITH IOS APP - WHITE

The Aithre Shield 4.0 auto-pairs to your iOS device using the free Aithre Connect app. Readings are collected and graphed in the background and Siri notifies you via your iOS-paired headset when thresholds are crossed. In addition to the app, the Aithre Shield 4.0 itself also has a glowing light indication of the CO level and an alarm that is designed to be seen at 50 ppm. Detector Only...P/N 11-17141...$129.95

Detector with Altus Bundle ...P/N 11-17598...$487.00

AITHRE SHIELD EX 3.0 BEHIND - THE - PANEL CARBON MONOXIDE DETECTOR

Note: For Experimental Aircraft Only. The Aithre Shield EX 3.0 is the first behind-the-panel device that puts carbon monoxide readings in your sight. PSI and Aithre Altus portable oxygen tank gauge directly on your Dynon SkyView, MGL, Garmin G3X, and Advanced Flight Avionics.

Detector Only...P/N 11-17497...$400.00

Detector with Altus Bundle ...P/N 11-17599...$722.65

GASALERT CLIP EXTREME CARBON MONOXIDE DETECTOR TWO YEAR BATTERY LIFE

Simply press the start button and the GasAlertClip Extreme is ready to use, providing continuous, reliable protection. This carbon monoxide detector requires no calibration, sensor replacement, battery replacement or battery charging. The simplicity of the GasAlertClip Extreme combined with minimal training requirements and negligible maintenance costs make the GasAlertClip Extreme one of the most cost-effective gas detection solutions for facility workers and onsite contractors. Standard Package Contents: Detector complete with specified sensor, stainless steel alligator clip, proof-housing, Test cap and hose, Manual, Multi-language CD manual.

Gas Alert Clip Extreme II CO (2 Years)...P/N 13-09667...$159.95

Gas Alert Clip Extreme III CO (3 Years)...P/N 13-09668...$428.00

LONG LIFE CARBON MONOXIDE DETECTOR

No longer do you have to remove your CO detector every 28 days, the new Quantum Eye Carbon monoxide detector offers a minimum 18 months of sensor life...

P/N 09-35601...$14.60

STANDARD CARBON MONOXIDE DETECTOR

Toxic, odorless, tasteless gas produced by incomplete combustion or gasolene, kerosene, natural gas, butane, fuel oil, wood, coal or anywhere fossil fuels are burned. Dangerous levels of CO come from internal combustion engines such as cars, airplanes, and lawn mowers or from any poorly vented or improperly adjusted fuel burning appliance...

P/N 09-35600...$3.85

Discount on 5...$17.33

ASA CARBON MONOXIDE DETECTOR

Carbon Monoxide (CO) is a toxic, odorless, and tasteless gas produced by incomplete combustion of Monoxide, kerosene, natural gas, butane, propane, fuel oil, wood, coal, and other fossil fuels. Dangerous levels of CO can be produced by internal combustion engines or from any poorly vented or improperly adjusted fuel-burning appliance. Exposure to CO may cause sickness, headaches...P/N 13-06667...$3.95

DIGITAL CO2 DETECTOR

The extremely affordable DCO 1001 has a measuring range of 0-1000 ppm and comes complete with a soft case, a wrist strap, 3 "AAA" batteries and an instruction manual. Features: • Adjustable co warning level • LCD dual digital display • Bright backlight • Self test • Low battery indication • "F/C" selectable • Auto power off • Auto zero • CO range: 0–999ppm • Resolution: 1ppm • Battery life is 250 hours when the backlight is off and 35 hours with P/N 13-09699...

P/N 13-06667...$174.75

MODEL 300 POCKET CO

Pocket CO Model 300 is the world’s smallest and most affordable carbon monoxide detector, alarm and dosimeter. About the size of a key fob weighs less than 1 oz. Range: 0 – 500ppm; first alarm at 50ppm, second at 125ppm, third at 400ppm. Also has an 8-hour TWA warning alarm at 50ppm, Self-checks upon start and carries a 2 year warranty...

P/N 13-06639...$134.95

ACCESSORIES

Replacement/Spare Battery ...P/N 13-06640...$4.50

AITHRE SHIELD EX 2.0 CARBON MONOXIDE DETECTOR

The Aithre Shield EX 2.0 Carbon Monoxide Detector is the first analog output carbon monoxide detector for experimental aircraft that pairs with an iOS app for trend data. Compatible with Dynon Skyview and Garmin G3X...

P/N 11-17143...$300.00

Prices Subject to Change Without Notice

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MUTT MUFFS

The inner foam that we use is the exact same ester resin foam that is used in many high end commercial head sets designed for humans. Based on the materials used, the estimated decibel reduction is between 21 and 24, assuming proper fit and a good seal against your pup’s head.

Specifications:
- Over-the-Head Hearing Protector for animals.
- Specially Designed Wide Foam Filled Ear Seals for Maximum Comfort.
- Engineered specifically to properly meet the contour of a dog’s head.
- Comfortable and Lightweight
- Adjustable Straps for Optimum Fit.
- Inner sound-deadening foam is the same density found in pilot’s high-end headsets.
- Made entirely in the United States of America.
- Patent Pending

<table>
<thead>
<tr>
<th>Muff Size</th>
<th>Typical Dog Weight</th>
<th>Head Circumference</th>
<th>Maximum Inner Shell Width</th>
<th>Weight</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Small</td>
<td>5-10 lbs</td>
<td>7&quot;-9&quot;</td>
<td>1.5&quot;</td>
<td>1.625&quot;</td>
<td>1.5 oz</td>
<td>13-05536</td>
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<tr>
<td>Small</td>
<td>10-20 lbs</td>
<td>9-13&quot;</td>
<td>1.75&quot;</td>
<td>1.75&quot;</td>
<td>1.7 oz</td>
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<td>13-18&quot;</td>
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<td>4 oz</td>
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SIZE CHART - The overall circumference measurement of your dog’s noggin at the largest point is the best determination of size, because if you choose a size too large, the muffs won’t seal well against his head, and you lose all the sound-reducing properties you were shooting for. Your dog’s weight is also a good indicator of which size to choose.

CUSTOM COLORS - Ever-classic “Mutt Muff® Black”. But now, Mutt Muffs® are available in three additional colors! Red! Blue! and Pink!
P/N 13-05541 ..................$62.75

CO-PILOT - TRIANGLE BANDANA FOR DOGS

The proper uniform for the distinguished canine aviator. Sewn on all three sides. Finished Sizes: Large: 21.5" x 21.5" x 29", Small: 14" x 14" x 20".
Large .................P/N 13-05547 ..............$6.65
Small ..................P/N 13-05548 ..............$6.65

HYDRO-BOWL FOR DOGS

Next time your pooch is pantin’ for a drink, pull out the convenient, collapsible Hydro Bowl. Waterproof and made of a high-tech, durable plastic canvas, the Hydro Bowl folds up and snaps closed into a compact triangle for storage. Attach it to a leash, backpack, bicycle, or a variety of other places for easy storage. Hold 5 cups.
P/N 13-05546 ..............$9.50

4 PAWS K-9 Ear Muffs

4 Paws Aviation has come out with hearing protection for your pet. Average of 15 dBHL greater sound reduction than what’s on the market today. These Ear Muffs hearing protection is made of nylon, aircraft approved sound deading foam, non-toxic "gel" cups, webbing, and a safety “break a way” clip.
They can be used with the only oxygen hood delivery system for your pet also offered by 4 Paws Aviation.
Small (5 - 25 pounds 7" & 13" head size) ....P/N 13-08288 .............$61.95
Medium (20 - 55 pounds 9" & 19" head size) ....P/N 13-08289 .............$65.95
Large (Over 85 Pounds & 19" head size) ....P/N 13-12807 .............$71.85

4 PAWS K-9 OXYGEN HOODS

Fight the effects of Hypoxia on your four legged family members by using the only oxygen delivery hood for animals when flying at high altitudes. Keep your pets safe and healthy when flying high. Hood comes with 7-foot long oxygen supply tubing with a common push on female end. Attaches to a stand-alone bottle or in place oxygen system. Oxygen hoods are available in five sizes, measurements’ include the collar (around the neck) and the length from the nap of the neck to the end of the nose, then add two more inches for clearance.

AEROX PET MASK

Take your pet with you at altitude thanks to AEROX and their line of Canine 02 Mask supplemental oxygen system certified to 25,000 feet. The AEROX® Canine 02 supplemental oxygen system is currently available in 5 sizes:
- Small - (Poodles, Shelties, Yorkies, Cavalier, Bichon Frise)
- Medium - (Beagles, Keeshounds, Jack Russels, Standard Poodle)
- Large - (Cockers Spaniels, Springer, Beagles, Boston Terriers)
- X-Large - (Huskies, Labradors, Retrievers, Dobermans)
- Giant - (Great Danes, Newfies, St Bernards, 90-160 LBS)

The muzzle incorporates a medium concentration continuous flow oxygen mask and frontal mesh area for best ventilation and oxygen delivery to your pets mouth and nose.

<table>
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<tr>
<td>Giant</td>
<td>13-07464</td>
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BARK BAGS

If you take passengers, sooner or later, you’re going to need one. 9-3/4" x 4-1/4" to hold alof chunks. Sold in a package of 3. There could be sympathy heaves.
P/N 13-05543 ..........$4.50

"Dog is My Co-pilot" is the trademarked motto of Bark magazine - accept no substitute. As seen on dog-friendly cars from coast to coast!
P/N 13-05545 ..........$2.85
WEATHER STATIONS – WINDMETERS

WINDSCRIBE HANDHELD WIND METER

A precise, handheld wind meter (anemometer). Also measures maximum, minimum, average wind, and running average wind. Sped can be displayed in both U.S. and metric units, and the unit also records temperature and wind chill. The WindScribe weighs 3.5 ounces and comes with a lanyard. A velcro strap and mounting bracket are included.

P/N 13-04019 $179.99

WIND WIZARD WIND SPEED INDICATOR

ECONOMY MODEL – ACCURATE & COMPACT

Conveniently calibrated in miles/hour, meters/ second and Beaufort. Expanded in the lower wind speed range of 0-20 MPH (0-8.9 meters/sec). Slips easily into a shirt or coat pocket. Safety wrist strap gives added security in stronger winds, and stores out of the way in the folding handle. Constructed of high impact plastic and corrosion resistant metals. It comes with leather-like carrying case. No Batteries needed.

P/N 13-18520 $49.99

SKYWATCH GEOS 11 HANDHELD WEATHER STATION

Features:  • Electronic Compass - analogical and digital  • Three Data Recording Modes: Manual Recording by pressing two buttons, Automatic Recording and three intervals (when unit is off or on), and Automatic Recording (when unit is on only) • Bright LED Light - operates on separate battery • Replaceable Ball Impeller - rotates to protect impeller blades • Exposed Sensors - for intervals (when unit is off or on), and Automatic Recording (when unit is on only) • safety wrist strap gives added security in stronger winds, and stores out of the way in the folding handle. Constructed of high impact plastic and corrosion resistant metals. It comes with leather-like carrying case. No Batteries needed.

P/N 13-04757 $759.95

SKYWATCH HANDHELD WIND METERS

Designed for consumer and professional use, the Xplorer does not include complicated and seldom-used features such as downloading and storing. Press one button, and instant readings are at your fingertips. Dimension: 3.5 x 1.5 x 0.75 in, 2 oz. (41 x 93 x 17 mm, 50 g). One button operation. EL Backlight. Completely sealed; internal sensors. Weatherproof (can be submerged 6 feet) • Replaceable Lithium battery (included and installed) • Stainless steel back. Auto-off after one minute (can be disabled to remain on). Included lanyard. One year warranty.

Handheld Weather 4 P/N 13-04762 $139.95

XPLORER 2 WINDMETER BY SKYWATCH

Dimension: 3.5 x 1.5 x 0.75 in, 2 oz. (41 x 93 x 17 mm, 50 g). One button operation. EL Backlight. Completely sealed; internal sensors. Weatherproof (can be submerged 6 feet). Replaceable Lithium battery (included and installed). Stainless steel back. Auto-off after one minute (can be disabled to remain on). Included lanyard. One year warranty. Designed in Switzerland.

P/N 13-12440 $59.95

XPLORER 3 WINDMETER BY SKYWATCH

Dimension: 3.5 x 1.5 x 0.75 in, 2 oz. (41 x 93 x 17 mm, 50 g). One button operation. EL Backlight. Completely sealed; internal sensors. Weatherproof (can be submerged 6 feet). Replaceable Lithium battery (included and installed). Stainless steel back. Auto-off after one minute (can be disabled to remain on). Included lanyard. One year warranty. Designed in Switzerland.

P/N 13-12441 $99.95

WEATHER FLOW WIND METER

The WeatherFlow Wind Meter is an anemometer that fits in your pocket. It’s the first hardware product we have created for the general wind- & weather-addicted community. It’s compatible with iPhone, iPad, iPod, and all major Android (coming soon) devices. And you are going to love it. Its operating range extends from the smallest puff (2 mph) to well over hurricane force winds (125 mph).

P/N 13-14788 $34.95

WIRELESS VANTAGE PRO2 WEATHER STATION

Uses frequency hopping spread spectrum radio technol- ogy to transmit readings wirelessly up to 1000 (300 m) to a Vantage Pro2 probe receiver, integrated sensor suite, and mounting hardware. Integrated sensor suite includes rain collector, temperature and humidity sensors, anemometer, 40 (12 m) anemometer cable, and solar panel. Sensor suite is solar powered. AC-power adapter included for home use or with three C batteries (not included). Wireless range is up to 1000’ outdoors, line of sight. Typical range through walls 200’ to 400’. Add wire- less repeaters for distances up to 1.7 miles. Not available in EU (Europe). Vantage Pro2 (US). P/N 13-05559 $869.00

Vantage Pro2 Plus with UV & Solar Radiation. P/N 13-05456 $869.00

Mounting Tripod P/N 13-04569 $89.75

Replacement Anemometer for Vantage Pro2 & Pro Plus P/N 13-1073 $128.75

SKYWATCH WINDOO 1 OMNI DIRECTIONAL WEATHER STATION

SKYWATCH® Windoo 1 is an anemometer-thermometer for your smartphone. It measures and indicates the following information. Windspeed. Temperature – Wind chill factor. Humidity – Dew point. Measured data can be stored and shared on facebook, twitter or windoo.ch. Materials: Housing: anodised aluminium, Protective case: carbon. Wind: Units: km/h, mph, m/s, fps and knots, Resolution: 0.1 unit, Accuracy: ± 2%, Measuring range: from 0 to 150 km/h. Temperature: Units: °C and °F, Resolution: 0.1 unit, Accuracy: ± 0.3 °C, Measuring range: from -5°C to +40 °C, Resolution: 0.1 °C. Temperature: Units: °C and °F, Resolution: 0.1 unit, Accuracy: ± 4.5 °C, Measuring range: from 0 to 100 °R.

P/N 13-16338 $94.95

SKYWATCH WINDOO 2 OMNI DIRECTIONAL WEATHER STATION

SKYWATCH® Windoo 2 is a measuring instrument for your smartphone. It indicates the following information. Windspeed. Temperature – Wind chill factor. Humidity – Dew point. Measured data can be stored and shared on facebook, twitter or windoo.ch. Materials: Housing: anodised aluminium, Protective case: carbon. Wind: Units: km/h, mph, m/s, fps and knots, Resolution: 0.1 unit, Accuracy: ± 2%. Measuring range: from 0 to 150 km/h. Temperature: Units: °C and °F, Resolution: 0.1 unit, Accuracy: ± 0.3 °C, Measuring range: from -5°C to +40 °C, Resolution: 0.1 °C. Temperature: Units: °C and °F, Resolution: 0.1 unit, Accuracy: ± 4.5 °C, Measuring range: from 0 to 100 °R.

P/N 13-16339 $114.95

AVIATION WEATHERVANES

The weathervanes are made of 14 gauge steel and come with a one year warranty on the finish and a lifetime warranty on all workmanship. Dimension: 17-3/4’’ x 6-1/2’’. Weathervanes are shipped standard with a 60’’ garden stake. Weathervanes may also be ordered with a different stand as a special order only. No additional charge will apply. The different stands that are available are: 15’’ Roof Mount, 15’’ Rock Mount, or a 15’’ Post Mount.

Description Part No. Price

Lo Wing Garden Weathervane 13-07217 $60.75

Cessna Garden Weathervane 13-07215 $58.95

Helicopter Garden Weathervane 13-07220 $60.75

Hi Wing Garden Weathervane 13-07218 $60.75

Twin Garden Weathervane 13-07219 $60.75

Cessna Roof Weathervane 13-08142 $58.95

Cessna Deck Weathervane 13-08143 $60.75

P-51 Roof Weathervane 13-11250 $60.75

P-51 Garden Weathervane 13-11305 $60.75

B-17 Garden Weathervan 13-07213 $60.75

Bi Plane Garden Weathervane 13-07214 $58.95

Tri Motor Garden Weathervane 13-07216 $60.75

B-17 Roof Weathervan 13-08078 $60.75

Bi Plane Roof Weathervane 13-08139 $58.95

Bi Plane Deck Weathervane 13-08140 $60.75

Bi Plane Post Weathervane 13-08141 $58.95

SEE OUR WEBSITE FOR A COMPLETE LIST.

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
MAGLITE LED FLASHLIGHTS

MAG-LED™ Technology known for their obsession with precision engineering, craftsmanship and commitment to perfection, was not satisfied with the performance of a “regular” LED as a usable light source. They set their sights on producing a light source that would not only incorporate longer battery life, but would also have the kind of durability, reliability, and performance MagLite® flashlights are known for. With an emphasis on uncompromising performance, MAG-LED™ Technology is the result of that quest.

LED Mini Maglight 2-cell AA - Black
P/N 13-04722 $19.95

LED Mini Maglight 2-cell AA, w/Holster - Grey Pewter
P/N 13-04721 $21.95

LED Maglight 2 Cell D hang pack - Black
P/N 13-04917 $19.95

LED Maglight 2 Cell D hang pack - Grey Pewter
P/N 13-04899 $19.95

LED Maglight 3 Cell D hang pack - Black
P/N 13-04725 $32.50

LED Maglight 3 Cell D hang pack - Grey Pewter
P/N 13-04881 $32.80

ACCESSORIES PACK • Includes: Pocket clip, lanyard wrist strap with key ring, anti-roll device, red, clear, and blue lenses.
P/N 13-04727 $3.95

MAGLITE XL 200 LED FLASHLIGHTS

This XL™ SERIES OF COMPACT FLASHLIGHTS offers FIVE BASIC, EASY-TO-USE FUNCTIONS plus Advanced Features and the STUNNING BRIGHTNESS of a Next-Generation LED. By the simple “QuickClick” method introduced with our popular MagLite® XL50™ flashlight, the XL200™ lets the user select the desired function. Motion-controlled variable power level and strobe rate. Easy to use. Powerful Projecting LED Beam. Pushbutton tailcap switch. Compact, Pocket Size Design.
P/N 13-04886 $8.50

MAGLITE D CELL ACCESSORY PACK
Mounting Brackets (Fit D-Cell Only) Mount your Mag-Lite® flashlight on a wall, in a vehicle, boat, airplane or home. Lens Holder / Anti-Roll Device This item both retains a colored lens and helps prevent the flashlight from rolling off irregular surfaces. Note: The Lens Holder and Lenses may also be used on “C” cell Mag-Lite® flashlights.
P/N 13-04886 $8.50

MAGLITE FLASHLIGHTS

Mini Maglight AA - Black
P/N 13-04913 $11.75

Maglight 2 Cell D - Black
P/N 13-04915 $22.50

Replacement Bulb for 2D Cell
P/N 13-13594 $3.65

MAGLITE XL50 LED FLASHLIGHT BLACK

Features: Compact, pocket sized design (every day carry). Adjustable LED Beam (Spot-to-Flood). Durable, rugged, machined aluminum case. Anodized for corrosion resistance and durability. Intelligent energy source management - continuously monitors the balance between high brightness and efficient power usage allowing for prolonged battery life. Powered by three (3) AAA alkaline batteries (included). Individually serial numbered.

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<td>Blue</td>
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NEBO CHAMELEON TRI COLOR FLASHLIGHT

No color filters…no separate heads…and no extra attachments. The Chameleon™ by NEBO offers 3 vibrant colors all in one convenient, compact flashlight. One color changing LED switches from white to green to red with the touch of the glow-in-the-dark On/Off button. The Chameleon™ features a 4x adjustable zoom to change the beam from spot light to flood light with the simple twist of the head.
P/N 13-17163 $20.65

VANTAGE VUE WIRELESS WEATHER STATION

P/N 13-11572 $357.00

Mount Pole Kit
P/N 13-11576 $32.50

Mounting Tripod
P/N 13-04569 $89.75

See www.aircraftspruce.com for additional options.

BEND-A-LIGHT

Bend to any configuration and illuminate hard-to-reach areas where conventional lighting cannot go. The incredibly brilliant light beam penetrates anywhere! A must for electronics, automotive, maintenance, repairs, locksmith, industrial, hobbies, around the house and more.

The only complete line of professional quality high intensity flexible light tools. Available in 3 lengths and 3 different lamps to choose from. Made in USA and come with batteries installed.

SURE CHECK FUEL LIGHT

Will assist in ensuring the safety every time you strain test your fuel prior to flight. At night, it’s safe & easy to use. The Sure Check Fuel Light, when used with your fuel test tube, will light up all the water and debris that might be present. The case is made of durable aluminum, weighs only 2.2 ounces, is 3” long, and uses a 12 volt battery to power a high intensity white LED light build. The casing is sealed with a strong neoprene rubber seal to keep any fuel from leaking into the case. Color: Red. Made in USA.
P/N 13-04207 $17.95

FLIGHT OUTFITTERS DUAL COLOR LED PILOT FLASHLIGHT

The Pilot Flashlight is designed for one-handed use with two easily accessible push buttons – one for white LED light and one for red LED light. For those inevitable times when a pilot holds their flashlight with their mouth for “hands-free” use, the Pilot Flashlight also has an innovative soft “bite ring” in Flight Outfitters’ signature orange color. Rounding out the Pilot Flashlight is a wrist-strap to keep the light close at hand.
P/N 13-20664 $29.95
SUREFIRE G2X™ PRO
A polymer-body version of the 6PX Pro, uses a high-efficiency LED—virtually immune to failure since there’s no filament to burn out or break—that provides two light output levels: a brilliant, penetrating, perfectly focused 200-lumen beam, and a 15-lumen low-output setting that lets you greatly extend the runtime per set of batteries, an invaluable option when you find yourself miles from civilization. Press the tailcap switch for momentary-on low, press further to click constant-on low, return to off and press or click on again within two seconds for high. A polycarbonate micro-textured reflector delivers a comparatively wider beam with generous peripheral light. *P/N 13-10290 $69.95

SUREFIRE G2Z-MV COMBATLIGHT™ FLASHLIGHT
SureFire’s single-output G2Z™ Combatlight® with Max Vision™ flashlight—designed and built specifically for tactical use—features a proprietary reflector that shapes the high-output LED’s 650 lumens of light into a wide, useful MaxVision Beam® optimized for your field of vision. With its designed 14 mm bezel, the compact G2Z is even shorter and lighter in weight than its predecessor, generates nearly twice the output, and has all of the same features for outstanding tactical performance. *P/N 13-20653 $109.00

SUREFIRE LITHIUM BATTERIES
Optimized for use in SureFire flashlights, SureFire lithium batteries power a lot of power into a small package. And, unlike some other batteries SureFire high-performance lithium batteries boast a ten-year shelf life, which means they will be ready when you need them, every time. For all SureFire Lithium battery powered lights. 12 Pack...P/N 13-18714 $34.50 2 Pack...P/N 13-18715 $6.50

SEE WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE SELECTION OF SUREFIRE FLASHLIGHTS.

AVEO THE AVIATOR FLASHLIGHT

FLIGHTLIGHT™ - PILOT FLASHLIGHT
A flashlight is a must have for every pilot’s flight bag. In or out of the cockpit, this conveniently sized, long lasting, and durable flashlight serves as a great pilot companion. This 3-in-one LED flashlight balances between red, green, or white depending on your cockpit needs. With an LED life of 100,000 hours, the included alkaline batteries can keep this flashlight illuminated for up to 17 hours in “red” mode and 14 hours in “white”. *P/N 13-01067 $17.95

WORKBRIGHT INSPECTION LIGHT
This shop light is perfect for places that a flashlight can’t quite illuminate properly. It was originally designed as an inspection light, but has many other uses as well. It is powered through a USB connector, and can be used with a battery pack, wall adapter, computer, etc. Features: • USB Powered, 250mA (1.25W) • 140 lm • Color Temp: 5000 K • CRT: 80 • Cable Length: 6.5’ • Outer Dimensions: 2.5” x 3” x 1” • Meets FCC Class B Requirements • Vegetable Cable Tie Included • IP20 (not fluid or dust proof) • Compatible with UD1 Controller. *P/N 12-04780 $119.95

NEBO MYPAL PERSONAL ALARM AND LIGHT
The first NEBO flashlight designed just for women is the Nebo myPal. A rechargeable personal alarm and light. The various light modes make the MYPAL perfect for any task at hand, and the 400 lumen TURBO mode can light up any space. The MYPAL also features an ear-panning, 115dB safety alarm and distress strobe to provide safety right at your fingertips. The MYPAL’s compact size fits perfectly in a purse or on a key chain. *2 Assorted Colors (Black, Pink)” * Nebo MYCRO Pocket Light color is shipped randomly. *P/N 13-22488 $29.95

SUREFIRE E1B-MV BACKUP™ FLASHLIGHT
The sleek, ultra-compact E1B-MV was originally developed as backup lights for law enforcement pros. This outstanding everyday-carry light sets itself apart from the rest of the Backup family with its broad, useful MaxVision Beam™, created by a proprietary Total Internal Reflection (TIR) lens. Pull and twist Aviator’s self-locking selector ring to set it to white or colored light, no filter required. Blue Light...P/N 13-20654 $269.00 Red Light...P/N 13-20655 $269.00

SUREFIRE AVIATOR® DUAL-OUTPUT LED FLASHLIGHT
The ultra-compact, dual-output Aviator reinvents a classic SureFire design to provide a primary white LED and secondary colored LED in one sealed head, both focused into a useful beam with ample reach around you by a proprietary Total Internal Reflection (TIR) lens. Pull and twist Aviator’s self-locking selector ring to set it to white or colored light, no filter required. Blue Light...P/N 13-20654 $269.00 Red Light...P/N 13-20655 $269.00

SUREFIRE SIDEKICK RECHARGEABLE KEY CHAIN FLASHLIGHT
This ultra-compact, powerful LED illuminator was created so it could be carried and used by everyone. The rechargeable Sidekick was designed to attach to keys so it’s always available and, most importantly, ready for everyday use and emergencies. This polymer-bodied light features three levels of output that will provide security and peace of mind, no matter what. On high and operated just like a key FOB, its wide, smooth 300-lumen MaxVision Beam™ illuminates all dark areas at night. *P/N 13-20658 $69.99

SUREFIRE MINIMUS™ HEADLAMP
The model that launched SureFire headlamps into best-in-class status. Minimus provides the right amount of light—13 preset outputs up to a max of 300 lumens—precisely where you need it, thanks to its adjustable output knob and rotatable LED housing. *P/N 13-20659 $179.00

SUREFIRE MAXIMUS™ HEADLAMP
The SureFire Maximus™ rechargeable variable-output LED headlamp delivers an amazing 1,000 lumens of light—enough to illuminate your entire campsite. If that’s too much light, you can dial it down to 1-lumen—or any level in between—for closer work, preserving your dark-adapted vision, or extending the runtime. A large knurled dial permits output control with one hand—even if it’s gloved or numbed by cold. One hand can also aim the light right where you want it since the light assembly rotates up and down 90 degrees. *P/N 13-22301 $100

TITAN® ULTRA-COMPACT DUAL-OUTPUT LED KEYCHAIN LIGHT
Built to SureFire’s exacting standards—and created for everyone—the groundbreaking Titan is the world’s first professional-grade keychain flashlight. This ultra-compact, dual-output feat of engineering boasts a proprietary faceted reflector that shapes the light from its high-performance LED into a broad, smooth MaxVision Beam™ at both 125 and 15 lumens—astounding levels for a finger-sized light. The beam is perfectly balanced and better preserves your dark-adapted vision since it doesn’t have an intense hot spot. And its wide beam pattern was designed to fit your peripheral vision and cover all of these factors, it better maintains your overall situational awareness, crucial for safely navigating in the dark. *P/N 13-22300 $68.56

TITAN® PLUS ULTRA-COMPACT DUAL-OUTPUT LED KEYCHAIN LIGHT
The refined, ultra-compact Titan® Plus builds upon groundbreaking Titan, the world’s first professional-grade keychain flashlight, by adding several useful features. Several useful “pluses,” including more than twice the maximum output—300 lumens of flawless white light! Its high-performance LED also generates two other useful light levels with a simple twist of the head switch: 75 lumens at its medium setting and 15 lumens low. No matter which output level you select, proprietary faceted reflector shapes the LED’s light into wide, smooth MaxVision Beam™. And, because there are no intense hot spots and it’s optimized for your field of view, you see things clearly and maintain good situational awareness—crucial for closer-range tasks and safe navigation. *P/N 13-22301 $102.84

Prices Subject to Change Without Notice
PILOT FLASHLIGHTS

XEVISION PERSONAL LED FLASHLIGHTS - The compact LED flashlights are so small that they fit in the palm of a hand comfortably. They are so bright, even die-hard HID Xenon lighting technology purists can not resist. Super-bright white light from one small but powerful LED. Our LED flashlights feature the latest commercial Cree LED 7090 X-R-E, which delivers unprecedented levels of bright white light. The legendary 7090 X-R-E is tested to the highest standards in the LED industry. The white light generated is as cool as HID with around 4000ºK to 5000ºK. The current draw is quite small while the LED is very efficient with a luminous flux of up to 100 lm min. @ 350 mA, and a luminous efficacy up to 75 lumens/watt.

XV-C1C - Is their most compact LED flashlight using one long-lasting 3 VDC Lithium CR123A battery. The XV-C1C features six settings, 4 of them being output levels. This flexibility not only allows the user to select the best compromise between brightness and runtime for any given task but also has the ability to aid in an emergency. The XV-C1C offers a remarkably compact size and is extremely solid and reliable with its digitally regulated brightness. One 3 VDC CR123A Lithium battery XV-C1C (Black) ...........................................PN 13-05144 $124.80
XV-C1C (Iridium) ........................................PN 13-05147 $124.75

XV-C2C - Features six settings, 4 of them being output levels. This flexibility not only allows the user to select the best compromise between brightness and runtime for any given task but also has the ability to aid in an emergency. The XV-C2C offers a remarkably compact size and is extremely solid and reliable with its digitally regulated brightness. Two 3 VDC CR123A batteries (Lithium), not rechargeable.
XV-C2C (Black) ........................................PN 13-05145 $89.95
XV-C2C (Iridium) ........................................PN 13-05148 $125.95

XV-C2A - Features six settings, 4 of them being output levels. This flexibility not only allows the user to select the best compromise between brightness and runtime for any given task but also has the ability to aid in an emergency. The XV-C2A offers a compact size and is extremely solid and reliable with its digitally regulated brightness. Two 1.5 VDC AA (Alkaline, Lithium) or 1.2 V NiMH batteries.
XV-C2A (Black) ........................................PN 13-05146 $121.75

ACCESSORIES

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<td>CR123AX2</td>
<td>2 Titanium CR123A batteries are carefully matched and form one single sealed unit, 3 V but double capacity. Used for the XV-C2C LED flashlight. Prevent excessive discharge that can damage lithium cells and may lead to catastrophic incidents.</td>
<td>13-05143</td>
<td>$3.95</td>
</tr>
</tbody>
</table>

PILOT’S HANDY LANTERN YARD LIGHT - This emergency light with a break-away neck lanyard is great for use around any aircraft. Ideal for pre-flight inspections after dark, providing you with a small, powerful flashlight which you can simply hang around your neck as you preflight the aircraft. Also makes the perfect cockpit light in an emergency. Furnished with blue-green and red lenses for night flying as well as a standard clear lens. Includes lanyard & 1 AAA battery.

P/N 13-00571 $22.50


LARRY POWER LED WORK LIGHT - The Larry™ is BRIGHTER THAN EVER! Now, equipped with C-O-B LED technology, the Larry™ emits 170 lumens of intense light. The rotatable magnetic clip gives you convenient hands-free lighting by attaching to virtually anything. The reinforced plastic body design is water and impact-resistant, making this light basically indestructible. Powered by 3 AAA batteries (included). Size: (H) 6.375” x (W) 0.75” x (D) 2.25”, 0.1870 lbs. P/N 13-18551 $8.99

COAST PX20 DUAL LED FLASHLIGHT - The PX20 Dual Color LED Flashlight combines five super bright white LEDs with one red LED. Each LED is controlled by a separate switch, allowing you to turn on the desired color with one click; no cycling through switch modes to find your color. The white light is for general flashlight use, while the red LED is perfect when you only need minimal light, such as when you are setting up a map. A lightweight aluminum casing offers great durability and will hold up to heavy daily use. P/N 13-12049 $27.95

LIGHT BUDDY - Light Buddy its a swivel magnetic mount fits Maglite XL 50 XL 100 or any 1” light. Flashlight not included. P/N 13-12076 $19.95

NEBO PAL™ PLUS - The Pal+ is a 3-in-1 powerbank, flashlight and folding knife that conveniently fits in your pocket or purse or briefcase. This portable rechargeable 400 lumen flashlight also serves as a backup power source for mobile phones and other USB rechargeable electronic devices. The Pal+ also features 3” folding blade, that can be removed for safe travel. Benefits: Accessories: Micro USB to USB cable included Batteries: Powered by 1 rechargeable battery (included).
P/N 13-22065 $32.99

NEBO TORCHY RECHARGEABLE FLASHLIGHT - The rechargeable TORCHY, inch for inch, is the brightest flashlight in the world. Smart Power Control allows the TORCHY to seamlessly transition through the 4 light modes and 1,000 lumen TURBO mode. The powerful magnetic base doubles as the magnetic charging port for the included USB MagCable, and the removable clip provides easy carry or hands-free use as a cap light.
P/N 13-22482 $29.97

CSI QUATRO FOUR COLOR UV LED FLASHLIGHT - The CSI QUATRO™, appropriately named, incorporates 4 distinct light colors for many different uses. Featuring a high-power 75 lumen White LED, 5 Green LED’s, 5 UV LED’s, and a red laser pointer, this sleek flashlight is water and impact-resistant. Powered by 3 AAA batteries (included). P/N 13-18174 $22.50

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1013
FLITE LITE A1 TACTICAL AVIATOR SERIES FLASHLIGHT
Specially designed for the aviator and tactical operations to avoid being blinded by a flashlight that is too bright in the cockpit. The light starts in a programmable memory mode, which is user programmable to any brightness level desired.
P/N 13-11259 ................ $46.90

NEBO MYCRO POCKET LIGHT
The MYCRO is impossibly bright and unbelievably small. Featuring 6 unique light modes, including the 400 lumen TURBO MODE and 3 LED color options to accommodate any situation. The MYCRO is small enough to conceal in your hand or fit on your key ring. This powerful pocket light even comes with a stainless steel necklace chain to keep this light with you wherever you go.
3 Assorted Colors (Red, Silver, Black). Nebo MYCRO Pocket Light color is shipped randomly. P/N 13-21854 ................ $29.99

NEBO SLIM FLASHLIGHT
The NEBO SLIM is a thin, ergonomic rechargeable pocket light that outputs 500 lumens of intense bright light. Equipped with full dimming and Power Memory Recall, the SLIM also features a pocket clip, collapsible hanging hook and powerful magnetic base for convenient hands-free lighting.
3 Assorted Colors (Red, Silver, Black). Nebo MYCRO Pocket Light color is shipped randomly. P/N 13-22077 ................ $29.99

SMITH & WEsson GALAXY 28 LED FLASHLIGHT
The Galaxy™ Series 2800RBW LED Flashlight is Constructed from Ano-
dized Aircraft Aluminum in Matte Black; Shatterproof, Scratch-Resistant Polymer Lens with Anti-Reflective Coating;
20 White LEDs; 4 Red LEDs; 4 Blue LEDs; Double “O” Ring Sealed for Waterproofing and Extreme Weather and Corrosion Resistance; Nylon Holster with Duty-Belt Size Clip; and Velcro Loop Attachment with Spare Battery Compartment.
P/N 14-03267 .................... $38.50

SEe OUR WEBSITE FOR MORE SMITH AND WESSON AVIATION FLASHLIGHTS.

BITE-A-LITE FLASHLIGHT MOUTHPIECE
A clever mouthpiece for comfortably holding a flashlight with your teeth. Fits most “AA” or “AAA” size quality aluminum flashlights. Note: flashlight not included. This is the mouth piece only.
Size AA............................... P/N 14-00020 ............. $3.95
Size AAA............................. P/N 14-03292 ............. $3.95

PETZL TACTIKKA CONSTANT HANDSFREE LIGHTING + RED / GREEN / BLUE
The Tactikka +RGB is a compact, 250-lumen headlamp designed for activities where stealth is key. This hybrid headlamp is powered by the included 3xAAA LR03 batteries or by the optional CORE rechargeable battery. It features a long burn time, proximity or focused lighting for movement, and red/green/blue lighting which is easier on night vision and remains stealth. Red/green/blue lighting is easier on the user’s night vision while remaining stealth. Powerful 250-lumen light has a long burn time. Provides three lighting modes: max autonomy, standard and max power. Single button operation is easy to use, even when wearing gloves while the headband is easy to slip on and off. Tactikka +RGB hybrid headlamps include three standard batteries, and are also compatible with the CORE rechargeable battery. P/N 11-00986 ................... $39.95

DUO 5 HEADLAMP PETZL LIGHTS E69
The DUO lamps are ideal for use in wet environments, but are not designed for prolonged submersion (i.e. diving).
Features:
• Waterproof with dual light source: focusable halogen bulb and an LED module. • Switching on & off, brightness selection, zooming. • The DUO lamps allow the light to be optimized (distance, duration) according to your needs. • Simultaneous use of both bulbs is not possible. • Unlocking/locking the bezel.
P/N 11-04996 ....................... $99.95

BRILA™ 550 LED HEADLAMP
The Brila 550 LED Headlamp will stay secure for all your outdoor adventures with its included top stability strap and even weight distribution between the front LED and rear battery pack. The easy-to-use focus control adjustment provides a long-distance spot beam or broad flood beam at up to 550 lumens on high and runs for up to 55 hours on low. P/N 13-22026 .................... $34.85

Prices Subject to Change Without Notice
FLASHLIGHT HOLDERS - ARM RESTS

MERCURY CLAMP FLASHLIGHT HOLDER
Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automotive, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for largers flashlights.
P/N 13-04005 ...........$24.70

MERCURY-MAGNETIC FLASHLIGHT HOLDER
Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automotive, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for largers flashlights.
P/N 13-04006 ...........$24.70

GEMINI CLAMP FLASHLIGHT HOLDER
Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automotive, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for largers flashlights.
P/N 13-04007 ...........$37.50

GEMINI MAGNETIC FLASHLIGHT HOLDER
Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automotive, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for largers flashlights.
P/N 13-04008 ...........$29.95

GUPPIE MULTI-TOOL
The adjustable wrench jaw opens to 1/2" so you can use it for all kinds of light repair and assembly jobs. Thanks to the carabiner gate, the Guppie is easy to carry on a belt loop, D-ring, pack or rope. (But it is not a weight-bearing carabiner.) The high-carbon stainless steel blade with a Razor-Sharp edge can be opened and closed with one hand using the blade slot. The removable bit carrier is also a high-intensity LED light. It has two strong magnets to hold it securely to the Guppie’s left side. The stainless steel clip will hold the Guppie in your pocket or on gear, which gives a lot of versatility. One more trick: The Guppie carabiner detent will open bottle caps and metal jar lids.
Specifications: Blade Length: 2.0” (5.1 cm) Blade Steel: 3Cr13, 52-55 HRC Handle Length: 3.5” (8.9 cm) Tool Weight: 4.1 oz. (116 g) Bit Carrier Weight: 1.2 oz. (34 g) Batteries: Two CR327 3V Lithium
P/N 13-07358 ...........$38.95

CIGPEN
CIGPEN HOLDER - CigPen installation is as easy as 123. Pull the nasty ashtray out, peel the double stick tape, insert and press in CigPen. CigPen was designed to hold two standard pencils or pens along with a Mini Mag Lite AAA. For a very low cost, you can easily turn your existing ashtray into a useful device. Fits C-150, 172, 182 Cardinal. DOOR LOCK HANDLE - When you order the CigPen, you will also receive the Cessna 150 door lock. The door lock is made from ABS Plastic. It is engraved with lock, un-lock, and indicating arrows. Fits C-150 airplanes.
P/N 13-06913 ...........$18.75

MAP, CHECKLIST & LOG BOOK HOLDERS
These holders come in three sizes to store your maps, checklists and log books. They are thermo-formed from ABS plastic, and come in either black or gray.

MAP, CHECKLIST & LOG BOOK HOLDERS

<table>
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<tr>
<th>Description</th>
<th>Size</th>
<th>Color</th>
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CIGPEN 2
The Cigpen2 fits in the same space as that used by the ashtray in aircraft such as the Cessna 172, 182, 210, and many other makes and models. An ideal product for experimental aircraft. Provides a holder for two AA batteries, and a loop to hold a pen.

In The Box:
- 1 - Base
- 1 - Battery Holder
- 1 - Pen Holder

Note: Optional install of head set jacks by simply drilling two holes.
P/N 13-22416 ...........$47.02

Prices Subject to Change Without Notice
LEATHERMAN POCKET TOOLS

LEATHERMAN WINGMAN
The Leatherman Wingman is just that: your go-to tool for projects around the house, on the job, or at the campsite. A great, lightweight, pocket-sized, stainless steel tool; the Wingman features an outside-accessible, one-hand opening blade and newly-designed spring-action jaws. With plenty of handy tools, and backed by a team of designers, assemblers, and manufacturing crew from Portland, Oregon, this is one amazing value. Covered by the Leatherman 25-year warranty. P/N 13-11705 ...........$59.95

LEATHERMAN SQUIRT PS4
The Leatherman Squirt PS4 is the first miniature pliers multi-tool tough enough to be a Leatherman. Now the Squirt also sports a scissors, making it even more useful than before. The key ring attachment offers the flexibility to place it on your key chain, backpack or even a zipper. Just two ounces, it’s light enough to take anywhere. Fits nicely on a key ring. Color: Blue. Weight: 1.9 oz. Length (Closed): 2.25 inches / 5.72 cm (Closed) Material: Stainless Steel with anodized aluminum scales. Features: • Needle nose Pliers • Regular Pliers • Scissors • 420HC Knife • Wire Cutters • Wood/Metal File • Medium Screwdriver • Flat/Phillips Screwdriver • Bottle Opener • Key Ring Attachment .............P/N 13-11706 ...........$39.95

LEATHERMAN SKELETOOL, CX

LEATHERMAN SKELETOOL

LEATHERMAN MICRA

CRUNCH TOOL
Locking Pliers, Wire Cutters, Hard-Wire Cutters, Serrated Knife, Metal/Wood File, Ruler (Inch / Metric), Bottle Opener. Small Screwdriver, Medium Screwdriver, Large Screwdriver, Phillips Screwdriver (#1/#2), Hex Bit Driver, Wire Stripper, Lanyard Attachment.............P/N 13-02727 ...........$109.95

WAVE TOOL
Needle nose Pliers, Regular Pliers, Wire Cutters, Hard-Wire Cutters, Clip-Point Knife, Serrated Knife, Saw, Scissors, Wood/Metal File, Diamond-Coated File, Large Bit Driver, Small Bit Driver, Large Screwdriver, Ruler (8 inch/19 cm), Bottle/Can Opener, Wire Stripper, Lanyard Attachment, Two Double-Ended Bits. P/N 13-03289 ...........$99.95

SIDEKICK
Stainless Steel Body, Leather Sleeve, Spring-action Needle nose Pliers, Spring-action Regular Pliers, Spring-action Wire Cutters, 420HC Combo Knife, 420HC Serrated Knife, Saw, Wood/Metal File, Small Screwdriver, Medium Screwdriver, Phillips Screwdriver, Ruler (1 in / 2.54 cm), Bottle Opener, Can Opener, Wire Stripper. Removable Pocket Clip, Lanyard Ring, Carabiner Bottle Opener Accessory...P/N 13-11703 ...........$59.95

SUPER TOOL 300
• Stainless Steel 420HC Handles • All locking blades and tools • Comfort-sculpted Handles w/ Cutouts for Access with Glove on • 420HC Clip Point Knife with Straight Edge • 420HC Sheepfoot Serrated Knife • Needle nose Pliers • Regular Pliers • 154CM Removable Wire Cutters • 154CM Removable Hard-wire Cutters • Stranded-wire Cutters • Wire Stripper • 19 Tools • Electrical Crimper • 5/16” Screwdriver • 7/32” Screwdriver • 1/8” Screwdriver • Phillips Screwdriver • Wood/Metal File • Saw • Bottle Opener • Can Opener • Ruler (9 inches/22 cm) • Awl with Thread Loop. P/N 13-11704 ...........$89.95

LEATHERMAN REBAR
Optimized for strength and features: • Needle nose Pliers • Regular Pliers • 154CM Replaceable Hard-wire Cutters • Electrical Crimper • 420HC Knife • 420HC Serrated Knife • Wood/Metal File • Saw • Small Screwdriver • Large Screwdriver • Phillips Screwdriver • Awl w/Thread Loop. Ruler (8 inches/20 cm) • Bottle Opener • Can Opener • Wire Stripper.............P/N 13-12777 ...........$69.95

LEATHERMAN CHARGE AL
The Leatherman Charge AL includes scissors that slice through just about anything, with beveled edges that allow them to get extra close to whatever you’re cutting. Bit drivers for versatility, diamond-coated files for detailed work, and a 154CM clip-point knife are all housed in 6051-T6, hard-anodized aluminum alloy handles. The Charge AL takes the idea of a multi-tool up a notch………………P/N 13-04515 ...........$139.85

LEATHERMAN CHARGE + TTI
Lightweight and made of premium materials, this upgraded version of the original includes replaceable wire cutters. One of the more popular tools, the Charge Plus TTI is ready for jobs big and small. This functional multi-tool combines some of our most requested features with premium materials and upgraded, replaceable wire cutters. Titanium handles make the tool lightweight and strong and an ultra-sharp 530V steel knife blade resists corrosion. P/N 13-21325 ...........$169.95

VISIT OUR WEBSITE TO VIEW OUR COMPLETE LISTING FOR LEATHERMAN TOOLS.
TANA WIRE MARKERS

Tana Wire Markers are large fiberglass balls which can be attached to power lines to warn aircraft of the location of the wires. They meet FAA specifications, feature easy installation and universal attachment, withstand the elements for over 10 years, require no maintenance, do not slip, chafe, oscillate, or cause electrolysis or vibration. Stocked in 9”, 12”, and 24” sizes. Larger sizes available on request. Color: international orange. Stocked in Tana marker style JX.

Styles SD, KJ, AR, XL, and BN are available by special order. Please Request a Quote.

9” diameter with Tape ........................................ P/N 13-18710 ........................... $79.95
9” diameter w/o Tape ........................................ P/N 13-18711 ........................... $99.85
12” diameter with Tape ........................................ P/N 13-00057 ........................... $122.75
20” diameter with Tape ........................................ P/N 13-00059 ........................... $268.00
12” diameter w/o Tape ........................................ P/N 13-00054 ........................... $99.85
20” diameter w/o Tape ........................................ P/N 13-00055 ........................... $137.75
24” diameter w/o Tape ........................................ P/N 13-00056 ........................... $224.95

BIRD DETERRENT - BIRDXPELLER PRO

The BirdXPeller PRO is a sonic bird repeller that broadcasts a variety of naturally recorded bird distress signals and predator calls that frighten, confuse and disorient pest birds within the effective range. Pest birds cause damage, liability and health hazards. Sonic bird control is a safe, humane, eco-friendly way to get rid of birds from outdoor areas. Sonic repellers use high-definition digital recordings. Customizable settings allow for easy, DIY pest control. Real sounds – digital playback of naturally recorded threats. Covers up to 1 acre. Repels: pigeons, starlings, sparrows and gulls. ......................... P/N 13-00091 ........................... $222.95

LARGE AIRPORT CONE MARKERS

Avlite’s range of airfield cone markers is rotationally-molded using UV-stabilized polyethylene, providing exceptionally long-life without the need for painting.

Large Cone Marker Yellow ................................... P/N 11-14012 ........................... $72.85
Large Cone Marker Orange ................................... P/N 11-14013 ........................... $65.00
Mini Cone Marker Blue ....................................... P/N 11-14014 ........................... $37.85

UNIVERSAL SAFETY STEP


P/N 13-18575 ........................... $58.75

LO-COMMERCIAL 6 INCH SAFETY STEP


P/N 13-18576 ........................... $59.95

COMMERCIAL 8 INCH SAFETY STEP

Tubular Aluminum 15”x19” platform, 8” high. Custom Designed Non-Slip Safety Steps on Platform. Powder coat finish. Rugged All Aluminum Welded Construction, will not corrode. Heat Treated for Maximum Strength. Weight – 6 1/2 lbs. Lab Tested to 1000 lbs. Weight: 11 lbs. Dimensions: 27 x 21 x 8 in

P/N 13-18577 ........................... $74.75

FOLDING SAFETY STEPS


Small.......................................................... P/N 13-18578 ........................... $64.75
Large ............................................................. P/N 13-18579 ........................... $113.75
Extra Large....................................................... P/N 13-18580 ........................... $105.75

HANDLE SAFETY STEP


INDUSTRIAL SAFETY STEPS


8 Inches............................................................... P/N 13-18582 ........................... $84.75
10 Inches ............................................................ P/N 13-18583 ........................... $89.75
12 Inches............................................................ P/N 13-18584 ........................... $95.75
15 Inches............................................................ P/N 13-18585 ........................... $104.95

SAFETY STEP ACCESSORIES

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<td>13-18589-1</td>
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<td>Safety Step Glow Strips</td>
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</tbody>
</table>

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PILOT WATCHES

CITIZEN ECO-DRIVE STRAP
180 MENS WATCH
For a rugged look with a comfortable fit, this military-inspired timepiece fits the bill. With a day-date indicator, luminous hands, 37mm screw-back case, and 100M WR. The black dial provides a backdrop for simple Arabic numerals, housed in a stainless steel case along with a woven grey strap with patterned stitching and a buckle clasp. P/N 13-19311...$175.00

CITIZEN PROMASTER ALTICRON WATCH
Climb to new heights with the reinvented Promaster Altimcron. Designed with light power technology, the sky is the limit when wearing this innovative, sleek yet sporty timepiece. With an altimeter measuring from 1,000ft to 32,000ft, compass and date, its the absolute timepiece for any semi-professional adventurer. Featured with a gun metal grey ion-plated stainless steel case, comfortable sleek grey polyurethane strap and complimentary black dial with bright orange accents. Featuring Eco-Drive technology – powered by light, any light. Never needs a battery. P/N 13-21902....$416.50

CITIZEN PROMASTER NAVIHAWK GPS WATCH
Travel around the world with the newest addition to the Promaster collection. The Citizen® Promaster Navihawk GPS features Satellite GPS Timekeeping technology with synchronized time adjustment available in 27 cities. Pilot’s rotating slide rule bezel, chronograph, perpetual calendar, alarm, light level indicator and dual time. This timepiece features a Super Titanium™ case and bracelet. Citizen’s Super Titanium™ is 40% lighter than stainless steel and 5 times harder to resist scratches. Featuring Eco-Drive technology – powered by light, any light. Never needs a battery. P/N 13-21901...$1,466.50

CITIZEN PROMASTER NAVIHAWK A-T WATCH
The Navihawk A-T ensures you are always on time, no matter where your journeys takes you. The black-tone stainless steel case and mesh bracelet with black dial features world time in 43 cities, 2 alarms, 1/100-second chronograph, 99-minute countdown timer, UTC display, power reserve indicator, hand correction and shock sensing function. Featuring Eco-Drive technology – powered by light, any light. Never needs a battery. P/N 13-21900 ........$525.00

CITIZEN PROMASTER SKYHAWK A-T WATCH
With atomic timekeeping is 43 cities, this chronograph watch features a perpetual calendar, dual time, alarms, countdown timer, digital backlight and UTC display, power reserve and pilot’s rotating slide rule bezel. This model appears with a black ion-plated stainless steel case, comfortable black dial with bright orange details and a buckle clasp. Featuring Eco-Drive technology – powered by light, any light. Never needs a battery. P/N 13-21908.....$486.50

VISIT OUR WEBSITE FOR OUR COMPLETE CITIZEN PRODUCT LISTING.

ABINGDON WATCHES

In this collection, the function of a rotating bezel slide rule comes together with the classic analog face to present a timeless purity of curves and lines. An elegant chronograph.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
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<td>Amelie Cloud White Watch</td>
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<td>Amelie Runway Black Watch</td>
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VISIT OUR WEBSITE FOR OUR COMPLETE ABINGDON PRODUCT LISTING.

RADIANT TECHNOLOGY PILOT WATCH
Radiant Instruments introduces its first pilot watch. The unit provides a suite of pilot functions, and also has a buckeload of features that consumers desire.

Features: As with all Radiant products, the LCD screen is huge and legible. The functions include: • Altimeter (with history) (to 30,000 feet)! • Barometer (with history) • Compass (with declination adjustment) • Temperature • and, of course, time. P/N 10-06867 .........$94.75

VIBRALITE MINI BLACK
The smallest, high quality, user friendly Vibration Alarm Watch available. Vibration, Audible or Both Set easily in Option Mode. Text on display prompts you. Button Alert feature will confirm your setting quickly. 12 Daily Alarm Settings Set for variable reminders. 20 second duration alarm with auto off or can be turned off by pressing any button. Countdown Timer with Auto Repeat. P/N 11-11135 .........$51.75

PS 1018 WWW.AIRCRAFTSPRUCE.COM

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RAY-BAN AVIATION SUNGLASSES
Ray-Ban is the leading brand in the high quality sunwear market segment and by far the best-selling sunwear brand in the world. It is an all American Brand created 1937 with the Aviator style, developed for use by the pilots of the U.S Air Force.

G-15XLT is a Grey Color Aviator style, developed for use by the pilots of the U.S Air Force.

SCHEYDEN FIXED HYBRID COMPOSITE SUNGLASSES
Stylish composite frames have been combined with HiNiHg (High Nickel Silver) temples, enabling full wrap frames that fit comfortably under a headset without disturbing the ANR seal. The frames will easily slide down the wearer’s nose and back up again to adapt to changing light conditions with the push of a finger. Scheyden Deluxe Case Pack is included.

SCHEYDEN FIXED WAVEYLITE SUNGLASSES
A timeless style mixed with aviation specifications. The Waylite is fashionable and durable. A first of its kind, the Waylite is an ideal fit for a wide range of facial sizes.

Lens Options:
- 7-Layer Non-Polarized (Aviation, Golf, Driving)
- 8-Layer Polarized (Fishing, Boating, Driving)

FRAME STYLES

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<tr>
<td>RB 3025</td>
<td>ARISTA</td>
<td>G-15 XLT 58mm</td>
<td>13-04984</td>
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<tr>
<td>RB 3025</td>
<td>ARISTA</td>
<td>G-15 XLT 62mm</td>
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<tr>
<td>RB 3025</td>
<td>BLACK</td>
<td>G-15 XLT 58mm</td>
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</tr>
<tr>
<td>RB 3025</td>
<td>BLACK</td>
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G-15XLT is a Grey Color

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<th>Lens Color</th>
<th>PN</th>
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<tbody>
<tr>
<td>RB 3025</td>
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<td>G-15 XLT 58mm</td>
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<td>$154.00</td>
</tr>
<tr>
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<td>BLACK</td>
<td>G-15 XLT 62mm</td>
<td>13-04993</td>
<td>$154.00</td>
</tr>
</tbody>
</table>

SCHEYDEN CLASSIC FLIP-UP SUNGLASSES
Scheyd patented FlipUp & locking mechanism, allows you to instantly adapt to constantly changing cockpit light conditions with the flip of a finger. Fabricated in titanium it weighs mere ounces. Offers 100% UVA & UVB protection, crystal clear, distortion free vision. Backside Triple Anti-Reflective coating acts to diffuse ambient light from behind. Includes a Deluxe Case Pack with a luxurious microfiber cleaning cloth and glasses bag. Hard case and flip sport case. Lifetime warranty on all titanium frames and the best lens replacement warranty in the eyewear industry.

SCHEYDEN FIXED GEAR LIBERATOR SUNGLASSES
The “Liberator” is a titanium version of the iconic aviator sunglasses, originally developed during the WWII era. This timeless, fashionable, and incredibly durable frame is perfect for those who demand the highest level of precision and quality. Anti-Reflective, Anti-Glare and 100% Protection from UVA & UVB.

El Capitan
Avalon
Sonoma
Avalon Small

SCHEYDEN DUAL RX SUNGLASSES
The ability to instantly & effortlessly adapt to changing light conditions while keeping your prescription lenses in place. Supplied with a lens template which is all your local optician needs to fabricate your prescription lenses. See photos above for frame styles.

SCHEYDEN FIXED GEAR SUNGLASSES
The thin titanium ear-pieces fit comfortably under a headset and are small enough that they won’t interfere with the ANR seal. Fixed Gear Mavericks are the choice of the US Air Force Thunderbirds. High Contrast Light Lens offers 100% UVA & UVB protection and is recommended for low light conditions.

MODEL | LENS | COST
--- | --- | ---
El Capitan | High Contrast Bronze CR39 | $449.00
El Capitan | Neutral Grey CR39 | $399.00
Avalon | High Contrast Bronze CR39 | $449.00
Sonoma | High Contrast Bronze CR39 | $449.00
Avalon Small | High Contrast Bronze CR39 | $449.00
Avalon Small | Neutral Grey CR39 | $449.00

Lenses are non-polarized as standard. This ensures that there is no distortion or “blacking-out” of glass cockpit instruments or LCD screens. Polarized lenses are available.

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
**SUNGLASSES**

**ROTHCO G.I. TYPE PILOT SUNGLASSES**


<table>
<thead>
<tr>
<th>Color</th>
<th>Part No.</th>
<th>Price</th>
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<td>Gold/Mirror</td>
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</table>

**AMERICAN OPTICAL SUNGLASSES**

Performance-tested sunglasses with classic aviator styling. The Original Pilot Sunglass® has been a favorite of US military pilots for more than 40 years. Engineered to rigid military specifications and issued to millions of US soldiers, sailors, marines and airmen since 1958. The rugged and sturdy structure and high quality finishing of the steel alloy frame coupled with distortion free, toughened and polished True Color® glass lens have made the AO Flight Gear® Collection the standard bearer of all fine military sunglasses.

- **Original Pilot (Squared)**
  - 52mm: P/N 13-03212: $149.00
  
- **General (Oval)**
  - 52mm: P/N 13-03214: $149.00
  - 58mm: P/N 13-03215: $149.00

**RANDOLPH**

Randolph Engineering has been a leading supplier of military sunglasses to the U.S. Armed Forces since 1982. These sunglasses are the choice of America’s Top Gun pilots and NASA astronauts. They meet demanding U.S. military specifications, provide superior glare protection and UV absorption and can be converted to prescription lenses. All of the sunglasses below feature 23K gold plated, hand polished frames and come with a crush resistant case.

- **Aviator**
  - Standard issue for military pilots worldwide. (MIL-SPEC 25948). These lenses sharpen detail and show colors evenly, making them ideal for flying. Bayonet temples provide optimum fit for use with a headset or helmet.

<table>
<thead>
<tr>
<th>Size</th>
<th>Lens</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>52mm</td>
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<td>58mm</td>
<td>MatteBlack/Gray</td>
<td>14-01849</td>
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</tbody>
</table>

- **Concorde**
  - The Concorde features the world famous tear drop aviator lens design, monoblock hinge design, skull temple bars, and non-slip silicone nose pads. A very popular sunglass style with lenses that are convertible for prescription lenses.

<table>
<thead>
<tr>
<th>Size</th>
<th>Lens</th>
<th>Part No.</th>
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<tbody>
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<tr>
<td>57mm</td>
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</tr>
<tr>
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<td>13-00690</td>
<td>$239.00</td>
</tr>
<tr>
<td>61mm</td>
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<td>$239.00</td>
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<tr>
<td>57mm</td>
<td>MatteBlack/Gray</td>
<td>14-01852</td>
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<td>61mm</td>
<td>MatteBlack/Gray</td>
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**SERENGETI AVIATOR SUNGLASSES**

Serengeti Aviators protect your vision while eliminating glare and sharpening details better than other sunglasses. Cloud boundaries are more easily delineated and oncoming traffic is more visible. Unique photochromic spectral controls improve your ability to see in marginal VFR and IFR conditions. In bright sunlight, you’ll see the instruments better and ghost images will be eliminated from the cockpit. Wear them late in the day or at sunset to preserve your night vision.

**LARGE AVIATOR SUNGLASSES**

- **Base Curve**: 6 • **Temple Length**: 140mm.
- **Lens Size**: 61.5 x 55.5 x 68mm.

<table>
<thead>
<tr>
<th>Size</th>
<th>Lens</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>57mm</td>
<td>Gold/Gray</td>
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<td>57mm</td>
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<td>61mm</td>
<td>MatteBlack/Gray</td>
<td>14-01851</td>
<td>$219.00</td>
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</tbody>
</table>

**DANTE SUNGLASSES**

- **Base Curve**: 8 Rx • **Temple Length**: 130mm.
- **Lens Size**: 63 x 38 x 64mm.

**MEDIUM AVIATOR HENNA SUNGLASSES**

- **Base Curve**: 6 • **Temple Length**: 140mm.
- **Spring Hinges** • **Lens Size**: 59.3 x 51.57 x 67.02mm.

**FLYING EYES HAWK SUNGLASSES**

Lightweight, unbreakable Resilamide frames. Soft nose-pad keeps glasses properly positioned and balanced for optimal fit. The included strap and cinch is unnoticeable under headsets. Standard Temples for everyday use. The included micro-thin Temples for use under a helmet or headset. Wraparound style gives a wider viewing angle than most frames. Optically correct, shatterproof polycarbonate lenses with 100% UV400 protection.

<table>
<thead>
<tr>
<th>Size</th>
<th>Lens</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
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<tr>
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<tr>
<td>58mm</td>
<td>Gold/Gray</td>
<td>13-03215</td>
<td>$149.00</td>
</tr>
</tbody>
</table>

**VISIT OUR WEBSITE FOR MORE SUNGLASS OPTIONS.**

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
This aviation helmet is made out of a fiberglass composite, utilizing Koroyd® and an anti-microbial comfort liner making it the lightest aviation helmet on the market. Features Fire Retardant trim and a FIDLOCK™ buckle system. Works with any aftermarket in helmet communications devices.

**Features:**
- **Airflow Comfort Liner** - Is a breathable material that promotes air flow circulation and cooling. Made from FireBlock, a fire resistant composite, and Ariaprene, this moisture wicking liner draws sweat away from the wearers head. • **Pure Optics Goggle** - The Anti-fog UV lens provides premium optics, reduces glare and supports a wider field of vision. TPR molded Visor Retainers mounted on the shell keep the visor from sliding off the helmet. • **Flow-Vents** - Promotes ventilation and enhanced cooling with strategically engineered exhaust ports designed to pull cool air in and push hot air out. • **Fidlock® - Quick Release** - Allows the fasteners to be conveniently opened and closed single handedly. • **PolyFusion Shell** - Is the first line of impact defense
- **Snap Lock TPR** - This rear mounted TPR strap secures the shield and utilizes a button snap closure system.
- **Flow-Vents** - Promotes ventilation and enhanced cooling with strategically engineered exhaust ports designed to pull cool air in and push hot air out. • **Fidlock® - Quick Release** - Allows the fasteners to be conveniently opened and closed single handedly. • **PolyFusion Shell** - Is the first line of impact defense
- **Snap Lock TPR** - This rear mounted TPR strap secures the shield and utilizes a button snap closure system. $1,214.10 ea.

### FLIGHT OUTFITTERS BUSH PILOT WALLET

The Bush Pilot Wallet is canvas with leather accents, and has a clear window that can display both a Pilot’s License and a Driver’s License. The wallet comes in a Flight Outfitters-logoed tin box, perfect for storing charger cables and other miscellaneous items in a flight bag. Features include six credit card pockets and a divided bill fold.

**Features**
- 6 credit card slots
- 2 clear ID holders
- Divided billfold
- Measures 3.5” x 4.5” x 1”
- Wallet is packaged in a custom tin for gift giving.

P/N 13-21893 ……… $29.95

Classic. Authentic. Quality. Established in 1959 as a defense contractor for the US Government, Alpha Industries remains one of the largest manufacturers of cold weather outerwear. For over 35 years, Alpha Industries has continuously supplied the US Government and military forces throughout the world. Alpha is now recognized as the original and leading manufacturer of authentic military-inspired outerwear. Some jackets are made in the USA and some are imported.

### FLIGHT OUTFITTERS BUSH PILOT JACKET

This jacket is essential equipment for your next adventure, whether you’re flying seaplanes in Alaska or splitting wood in your back yard. Its rugged exterior blocks out wind and rain, and can stand up to almost any abuse. But the Bush Pilot jacket is as comfortable on the inside as it is tough on the outside, with a quilted body lining and Sherpa accents to keep you warm. It’s the bomber jacket for the modern pilot.

<table>
<thead>
<tr>
<th>Color</th>
<th>Size</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>Black</td>
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<td>Blue</td>
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<td>Matte Black</td>
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<td>Matte White</td>
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<tr>
<td>White</td>
<td>Medium</td>
<td>13-21588</td>
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P/N 13-21589 ……… $137.75

### MA-1 INTERMEDIATE FLIGHT JACKET

The most popular flying jacket in the world, supplied by Alpha Industries to the U.S. Military for over 40 years. 100% nylon flight satin outer shell with nylon flight lining and polyester batting interlining for warmth. Front closure storm flap. Knit collar, waistband and cuffs. Combination utility pocket on sleeve. Pilot’s MA-1 reverses to high visibility Indian Orange for use in emergencies.

<table>
<thead>
<tr>
<th>Color</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>Navy</td>
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P/N 13-00545 ……… $137.75

### CWU - 45/P FLIGHT JACKET


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<td>Airforce Green</td>
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<td>13-05572</td>
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### CHILDREN’S JACKETS

**YOUTH BOMBER JACKETS**

These are a Flightline original. They’re a reproduction of a classic bomber, complete with simulated fleece collar. They are sturdily made with many special touches that make it unique, such as an airplane zipper pull, authentic aviation patches & colorful graphic map liner.

<table>
<thead>
<tr>
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<th>Part Number</th>
<th>Price</th>
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<tbody>
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<td>13-06429</td>
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<tr>
<td>Youth Large</td>
<td>13-06434</td>
<td>$43.95</td>
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TO ORDER FLIGHT JACKETS:

Choose jacket style and color desired and order by basic part number shown. Complete the part number with size by adding -1 (Small), -2 (Medium), -3 (Large), -4 (X Large), or -5 (XX Large).

### SIGNAL JACKEETS


<table>
<thead>
<tr>
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<th>Size</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
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<tr>
<td>Youth Large</td>
<td>13-06440</td>
<td>$41.50</td>
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</table>

### MA-1 JACKETS WITH PATCHES

This is a well made reproduction of the famous MA-1 green nylon quilted. Same patches as our children’s bomber jacket.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Price</th>
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<tbody>
<tr>
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<tr>
<td>Youth Large</td>
<td>13-06440</td>
<td>$41.50</td>
</tr>
</tbody>
</table>

### VISIT WWW.AIRCRAFTSPRICE.COM FOR PINK MA-1 JACKETS.

Visit www.aircraftspruce.com for complete list of helmets and sizing charts.

Prices Subject to Change Without Notice
**FLIGHT JACKETS**

### ULTRA FORCE BLACK MA-1 FLIGHT JACKET

This Black MA-1 Flight Jacket features a fully reversible Orange nylon shell, ribbed collar, 100% nylon water repellent outer shell, Poly fiberfill lining and front slash pockets. Rothco’s Flight Jacket has an extra full cut. Sizes and colors do vary.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Price</th>
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<tr>
<td>XXX-Large</td>
<td>14-03245</td>
<td>$46.99</td>
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</tbody>
</table>

### G-1 LEATHER FLIGHT JACKET


<table>
<thead>
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<th>Size</th>
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<th>Price</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Black</td>
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<tr>
<td>Brown</td>
<td>Small</td>
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<td>13-15004-M</td>
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</tr>
<tr>
<td>Brown</td>
<td>Large</td>
<td>13-15004-L</td>
<td>$349.00</td>
</tr>
</tbody>
</table>

### NOMEX 45/P-36/P MIL-SPEC FLIGHT JACKET

Made in USA, this true Mil-Spec flight jacket currently issued to U.S. Air Force pilots. Made from fire-resistant Nomex material, this jacket is engineered to exceed incredibly tight tolerances and military requirements. Color: Sage. NOMEX fire resistant fabric, zipper tape, knit cuffs and waistband. Tonal Velcro patch. Front zipper closure with storm flap. Fully lined double-stitched cargo pockets with Velcro closure. Made to military specification.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>13-15005-S</td>
<td>$139.95</td>
</tr>
<tr>
<td>Medium</td>
<td>13-15005-M</td>
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</tr>
<tr>
<td>Large</td>
<td>13-15005-L</td>
<td>$139.95</td>
</tr>
<tr>
<td>X-Large</td>
<td>13-15005-XL</td>
<td>$139.95</td>
</tr>
</tbody>
</table>

### B-15 FLIGHT JACKET

The B-15 is a classic flight jacket made tough to battle the harsh elements. Features a nylon shell and removable synthetic mouton fur collar. The Alpha B-15 features button tabs once used by pilots to connect oxygen masks and headset wires. Water repellent 100% nylon flight satin outer shell and polyester filled lining. Front zipper closure with storm flap. Knit cuffs and waistband. Alpha signature utility/pencil pocket. Color: Black.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>13-15006-S</td>
<td>$139.95</td>
</tr>
<tr>
<td>Medium</td>
<td>13-15006-M</td>
<td>$139.95</td>
</tr>
<tr>
<td>Large</td>
<td>13-15006-L</td>
<td>$139.95</td>
</tr>
<tr>
<td>X-Large</td>
<td>13-15006-XL</td>
<td>$139.95</td>
</tr>
</tbody>
</table>

### AERO SQUADRON LEATHER FLIGHT JACKET

The leather is treated to make the jacket look as if it were issued to your grandfather in WWII and stored in the attic until this week. Soft and comfortable. A great way to outfit Dad, Son and teenage Grandson. Color: Brown Antique Lamb

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
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</tr>
<tr>
<td>Medium</td>
<td>13-07209</td>
<td>$486.00</td>
</tr>
<tr>
<td>Large</td>
<td>13-07210</td>
<td>$486.00</td>
</tr>
<tr>
<td>X-Large</td>
<td>13-07211</td>
<td>$486.00</td>
</tr>
<tr>
<td>XX-Large</td>
<td>13-07212</td>
<td>$486.00</td>
</tr>
</tbody>
</table>

### SCULLY LEATHER BOMBER JACKET

This retro rugged leather bomber jacket features a zip front closure, point collar and two lower flap pockets with snap closures & side entry access. The style has epaulettes on the shoulders and a knit waist and cuffs. Also, interior has quilted lining for warmth with one inside chest pocket. Import. Color: Brown.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Medium</td>
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</tr>
<tr>
<td>Large</td>
<td>13-22461</td>
<td>$184.23</td>
</tr>
<tr>
<td>X-Large</td>
<td>13-22462</td>
<td>$184.23</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX-Large</td>
<td>13-22463</td>
<td>$184.23</td>
</tr>
<tr>
<td>XXX-Large</td>
<td>13-22464</td>
<td>$211.88</td>
</tr>
<tr>
<td>XXXX-Large</td>
<td>13-22465</td>
<td>$211.88</td>
</tr>
</tbody>
</table>
AIRCRAFT SPRUCE T-SHIRTS
Top quality 100% cotton shirt available in white or navy blue. These shirts feature Aircraft Spruce logo on the back and a small Aircraft Spruce Logo on the front left chest. A great looking shirt that will last for years. Order size by part no.:

<table>
<thead>
<tr>
<th>Size</th>
<th>White Part No.</th>
<th>Price</th>
<th>Navy Part No.</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
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<td>$8.95</td>
<td>13-02047</td>
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<tr>
<td>Med.</td>
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<td>13-03010</td>
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</tr>
<tr>
<td>XL</td>
<td>13-03110</td>
<td>$9.95</td>
<td>13-02050</td>
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</tr>
<tr>
<td>XXL</td>
<td>13-03120</td>
<td>$9.95</td>
<td>13-02051</td>
<td>$9.95</td>
</tr>
</tbody>
</table>

AIRCRAFT SPRUCE POLO SHIRTS
AIRCRAFT SPRUCE POLO SHIRT - These are the same high quality polo shirts worn by the Aircraft Spruce Staff at Oshkosh, Sun 'N Fun and other airshows. Made from Dry-Excel™ close-hole Micromesh, polyester knit, with a fine gauge rib-trim collar. Three button front, open hem sleeves, and split side welts make these polos great for everyone. These polos feature the Aircraft Spruce logo on the left chest. Machine washable.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>13-04729</td>
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</tr>
<tr>
<td>Med.</td>
<td>13-04731</td>
<td>$43.95</td>
</tr>
<tr>
<td>Large</td>
<td>13-04732</td>
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<td>X-LRG</td>
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<td>$43.95</td>
</tr>
<tr>
<td>2XLG</td>
<td>13-04734</td>
<td>$45.50</td>
</tr>
</tbody>
</table>

AIRCRAFT SPRUCE WINDBREAKERS
These high quality, golf style pullover windbreakers are perfect for those chilly days on the course or at the airport. Color: Navy blue w/khaki trim and “Aircraft Spruce & Specialty Co” on left chest.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
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<td>X-Large</td>
<td>P/N 13-1989</td>
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</tr>
<tr>
<td>2XL</td>
<td>P/N 13-1990</td>
<td>$29.95</td>
</tr>
</tbody>
</table>

AIRCRAFT SPRUCE CAPS
Our heavyweight 100% brushed cotton hat is perfect for aviators. Unlike other caps, ours features a no-button construction for comfort while wearing your head-set. Low profile cap has aircraft design on front panel and Aircraft Spruce logo on back. A great looking top quality cap. Stretch fit, one size fits all.

<table>
<thead>
<tr>
<th>Color</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
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<td>$17.95</td>
</tr>
<tr>
<td>Navy</td>
<td>P/N 13-11715</td>
<td>$17.95</td>
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</tbody>
</table>

AIRCRAFT SPRUCE WATER BOTTLE
BPA free 20 oz. reusable aluminum Aircraft Spruce water Bottle. Features a leak proof lid and a clip to conveniently attach the bottle to a backpack or belt loop. Size: 8 1/2” x 2 3/4 diameter.

<table>
<thead>
<tr>
<th>P/N</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-11326</td>
<td>$4.95</td>
</tr>
</tbody>
</table>

CUSTOM AIRCRAFT MODELS
Recreate your airplane into a beautifully detailed desktop replica. Our Premium Custom Made Models are built to your exact specifications – no detail will be spared. You can have ANY aircraft recreated into a museum quality desktop model with your paint scheme, logos, registration number or any other details and markings.

Complete your model with a fully customized stand including your choice of logo and a personalized inscription plaque. We offer over 3,000 different models – both military and civilian. Our desktop models are a maximum of 17” in either wingspan or length. Please allow approximately 6-8 weeks for delivery. 100% satisfaction guaranteed.


IMPORTANT INFORMATION: Please fill out the information form online in order to customize your model. Please send the form to contact information listed on the form. Along with information form filled out, we will need 5 photos of the top, front, back, and both sides of your aircraft emailed to us.

<table>
<thead>
<tr>
<th>Type</th>
<th>P/N</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Custom Aircraft Models</td>
<td>13-05837</td>
<td>$549.00</td>
</tr>
<tr>
<td>Premium Plus Custom Models</td>
<td>13-08050</td>
<td>$699.00</td>
</tr>
</tbody>
</table>
FLYING GLOVES – GOGGLES – EPAULETS

**NOMEX AVIATOR'S SUMMER FLYING GLOVES**

GLOVE SIZING

Hold your hand out with your fingers together and thumb extended out. Start measuring palm from between the index finger and thumb, continue around the outside of the palm and back around on the inside of the palm making a complete circle with the measuring tape. Total inches around entire palm determines the size glove you will need.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 1/2 to 8 inches</td>
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<td>$17.95</td>
<td>7 1/2 to 8 inches</td>
<td>13-02057</td>
<td>$17.95</td>
</tr>
<tr>
<td>6 1/2 to 7 inches</td>
<td>13-02057</td>
<td>$19.95</td>
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<tr>
<td>6 inches or less</td>
<td>13-02058</td>
<td>$23.75</td>
<td>6 inches or less</td>
<td>13-02059</td>
<td>$23.75</td>
</tr>
</tbody>
</table>

* Grey leather palms and sage green suede topside.

**MARK 4 SILVER CROSS GOGGLES**

All leather face mask, color matched head bands, Split lenses, bright polished and chrome plated frames, Sliding Nose Bridge Adjustment.

P/N 13-06000 ..........................$99.85

Replacement Lenses for Silver Cross Goggles

Clear, set of 2. .........................P/N 13-06100 ..........................$34.80
Smoke, Set of 2 ......................P/N 13-06200 ..........................$39.75

**WORLD WAR II RAF FLYING GOGGLES**

A faithful Replica incorporating dark brown soft leather face mask stitched to the RAF blue painted solid brass frames. The traditional Split Lenses,

P/N 13-05860 ..........................$89.95

Replacement Split Lenses - Clear ..........P/N 13-06100 ..........................$34.80
Replacement Split Lenses - Tinted ......P/N 13-06200 ..........................$39.75

**VINTAGE AVIATOR GOGGLES**

Soft Brown or Black Leather face Mask, Hand Stitched to silver or black painted solid brass frames. Screw adjustment on nose bridge.

P/N 13-06310 ..........................$87.95

Replacement Split Lenses - Clear ..........P/N 13-06100 ..........................$34.80
Replacement Split Lenses - Tinted ......P/N 13-06200 ..........................$39.75

**NOMEX TOUCH SCREEN COMPATIBLE FLYING GLOVES**

These are the same as the regular Flying Gloves which have been worn by American military aviators since the 1960's, except these have a conductive fabric sewn into the tips (of both the left and right glove) of the middle finger, index finger, and thumb to allow for use with touch screen devices. The palms are made from soft capeskin (hair sheep) that gives you the fine sense of touch you need for flying. The back is made from soft knit of fire-resistant aramid fiber that stretches so the gloves fit snugly. They remain soft and pliable when they get wet. You can even wash them in warm water and hand soap. Measure in inches around the fullest part of your palm. Order the size closest to your hand measurement. Gloves stretch a little, so the fit should be snug.

<table>
<thead>
<tr>
<th>Color/Size</th>
<th>Part No.</th>
<th>Price</th>
<th>Color/Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
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<td>13-21297</td>
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<td>Black/9</td>
<td>13-21303</td>
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<td>Black/6</td>
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<td>$42.00</td>
<td>Black/10</td>
<td>13-21304</td>
<td>$46.50</td>
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<td>Black/7</td>
<td>13-21299</td>
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<td>13-21301</td>
<td>$29.95</td>
<td>Black/12</td>
<td>13-21306</td>
<td>$42.85</td>
</tr>
</tbody>
</table>

**VISIT OUR WEBSITE FOR PART NUMBERS FOR NAVY & DESERT TAN GLOVES**

**GENERAL UTILITY PLUS GLOVES**

All-purpose and abrasion-resistant. This is the ideal performance work glove. Heavy duty non-slip reinforcement on the palm, fingers and thumb ensures lasting durability and grip. The ergonomic design reduces hand fatigue while enhancing wrist support. Features a terry cloth brow wipe on the thumb. This glove is ideal for any number of rugged applications.

Medium ................................P/N 13-09813 ..................$22.50
Large ..................................P/N 13-09814 ..................$22.50
X-Large ................................P/N 13-09815 ..................$22.50

**PROPELLER LETTER OPENER**

Put a new spin on opening the bills with this propeller letter opener. With its streamlined design of heavy zinc alloy and brushed-metal finish, it makes a beautiful object d'art for the desktop. Twirl it on its spinning metal base for a bit of fun.

Medium ................................P/N 13-09813 ..................$22.50
Large ..................................P/N 13-09814 ..................$22.50
X-Large ................................P/N 13-09815 ..................$22.50

**PILOT SHIRTS / TIES / EPAULETS**

Aircraft Spruce stocks a full line of authentic airline pilot shirts in Aviator, Pilot, and Commander styles. Aviator style is available in short and long sleeve, in white or blue. Pilot and Commander are available in short and long sleeve, in white. Available in a complete selection of sizes for men and women pilots.

**VISIT WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE LISTING OF SIZES AND COLORS OF SHIRTS, PLUS TIES AND EPAULETS**
panels are only 3 1/2 inches height. Supports tire thicknesses up to 9

The Tail Bone Rough Rider Mechanics Seat

The Tail Bone Rough Rider is a totally new approach to creeper seats, designed from scratch to be easier to use, more comfortable, more durable and a better value than any other mechanic’s stool on the market! The seat is a uniquely designed tripod, so it’s a naturally stable working platform even on uneven floors and surfaces. And because it turns with the user, the legs always stay out of the way and let you luck 5 3/8” diameter and 1 3/8” wide, perfect for using outdoors in less than mean fewer wheels to have to roll over obstacles! The Tail Bone Rough Rider uses the casters from the Bone Rough Rider Creeper, which are 5 3/8” diameter and 1 3/8” wide, perfect for using outdoors in less than perfect circumstances. It also has an extra inch of ground clearance over the standard Tail Bone! The bucket seat works just like the ones in high

AEROCREEPER - ADJUSTABLE CREEPER

Caster options include:
- Standard 3” x 13/16” Hard Rubber
- recommended for most uses on smooth cement floors
- 120 lb dynamic load per caster
- keeps the creeper low for low working positions
- smooth operation
- Heavy Duty polyurethane casters
- More resistant to embedding metal chips & rivets
- 250 lb dynamic load per caster
- 1-3/16” wide tread helps rolling on rough surfaces
- Available in 3 diameters
- 3” - Usually the best choice - keeps creeper low for low work
- 4” - better for rolling on rough surfaces but raises creeper 1-5/8”

so it’s not as good for low work
- 5” - better for rolling on rough surfaces but raises creeper 2-5/8” so it’s not as good for low work
- Locking Casters
- Prevents rolling
- Installed on front two casters

SHURE-STEP® II

The Shure-Step II is a 10 inch high stool that will not tip or slip during use for aircraft maintenance. This step stool is rated for 500 pounds yet only weighs 10 pounds. Rubber pads on bottom prevent the step from scratching the paint on an aircraft. Color: Yellow. Features: 6 large rubber pads on bottom • Very rough top surface to keep mechanics safe
- Ice cleats keep the step from sliding during icy winter conditions • The Shure-Step II is a stackable step stool • Weight: 10 pounds

P/N 13-11219 ............$109.95

SHURE-STEP® 2-STEP STOOL

The 2-Step stool is 10 inches high, half is 6 inches high. Features: Durable, lightweight, and stackable • Shure-Step® will float • All Shure-Step® products are rated at holding 500 lbs.

P/N 13-11585 ............$119.50

SHURE-STEP® SENIOR STEP

The Senior Step is 6 inches tall, weighs 9 lbs., rated at 500 lbs. and measures 24” x 14”. Step has a large, 10” x 20” black non-slip sandpaper surface on top of it. Features: Durable and lightweight • Senior Step can be stacked on top of the Shure-Step® • Shure-Step® will float • All Shure-Step® products are rated at holding 500 lbs.

P/N 13-11584 ............$106.77

LOCK N CLIMB LADDERS


Size | Part No. | Price
--- | --- | ---
4 Foot Fiberglass | 13-15932 | $734.00
5 Foot Aluminum | 13-15928 | $659.00
6 Foot Aluminum | 13-15927 | $697.00
8 Foot Aluminum | 13-15926 | $633.00
4 Foot Aluminum | 13-15929 | $697.00

ALUMINUM AIRCRAFT FUELING LADDER

Heavy duty aluminum fueling ladder perfect for aircraft fueling applications. Just the right height to put you in perfect position for low-wing or high-wing aircraft. Made of high quality aluminum and will stand the test of time. Features: 1 Step Ladder • Ladder Height 5 ft. • Number of Rungs: 3 • Platform Width (In.) 13-1/2” • Height to Platform (Fl.) 3 • Bottom Width (In.) 20 • Base Spread (In.) 34 • Step Width (In.) 5 • Shipping Weight: 5.8 lbs • Anti-Slip Tread • Load Capacity (Lb.) 300 • Aluminum, ANSI Type 1A • Includes Heavy Duty Standing Platform.

P/N 13-12017 ............$179.75

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
CD-ROMS - SOFTWARE - AVIATION SOFTWARE

FLIGHT SOUND X - AVIATION HEADSET / USB ADAPTER

Just plug and play... and you’re ready to go! Flight Sound X is designed to be as easy to use as possible - no additional software, no batteries, no external power sources - just one standard USB cable. Just ‘plug and play!’ When users have finished with the device, simply unplug it, and the computer will revert to its original audio settings. The Flight Sound X adapter is a great accessory for any pilot!

Features: • USB 1.1 and 2.0 compatible • Plug and Play with Windows 7/ Vista/XP and Mac OS X • Uses standard General Aviation headset connectors (PJ-068 and PJ-055B) • Supports headset impedances of 100 to 600 Ohms • Supports Mono and Stereo headsets • Compatible with standard microphone types (electret, dynamic and powered dynamic)

Pilots Headset USB Adapter P/N 13-09050 $99.95
Chopper / Military Pilots UCB adapter P/N 13-09051 $115.75

MICROSOFT FLIGHT SIM DISCOVER ADD ON

Three of the most popular of the Discover franchise in one package. Includes: Discover Great Britain, Discover Europe, and Arabia.

Specifications: • Required Software: Microsoft Flight Simulator FSX • Operating System: Windows XP / Vista / 7 / 8 • Processor: 2 GHz or higher • Memory: 2 GB RAM • Hard Drive: 1 GB • Graphics: 256 MB or more • Other: Free Steam account and broadband connection for online play

P/N 13-19703 $16.95

X-PLANE 11 FLIGHT SIMULATOR - DVD SET

Welcome to the world of props, jets, single- and multi-engine airplanes, as well as gliders, helicopters and VTOLs. X-Plane contains subsonic and supersonic flight dynamics, allowing users to predict the flight characteristics of the slowest aircraft or the fastest. X-Plane includes more than 15 aircraft in the default installation, spanning the aviation industry and its history. Aircraft included range from the Sikorsky S–76 and Cessna 172 to the Space Shuttle and the B–52 Bomber. Additionally, some 2000 additional aircraft models can be downloaded from the Internet, many of which are completely free. If those aren’t enough, users can design their own airplanes and test-fly them!

Included Aircraft: • Cirrus Vision SF50 • North American X–15 • Beechcraft Baron 5 • Boeing 747–400 and 747–100 • Boeing 737–800 • Lockheed SR–71 • Cessna 172SP • McDonnell Douglas KC–10 Extender • Static X–1 • Beechcraft King Air C90 • ASK–21 Glider • Focke–Wulf B–52G Stratotofriss • Lockheed C–130 Hercules • Space Shuttle Orbiter • McDonnell Douglas F–4 • McDonnell Douglas MD–80 • Sikorsky S–76 • Columbia 400

P/N 17-00348 $69.75

GARMIN G1000 TRAINING: IFR PROCEDURES

Advanced, extensive computer-based training program designed with input from Garmin that teaches pilots required to master the operation and confidently fly the G1000 in IFR conditions. Learn how to pull up and fly instrument procedures, load and activate approaches including RNAV and GPS approaches, new WAAS-enabled approaches such as LNAV, LNAV/VNAV, and LPV approaches, departures and arrivals, as well as performing course reverses, holding patterns, and executing missed approaches. Complete and comprehensive training allowing the pilot to become proficient in all advanced functions and tasks required for IFR flight and greatly facilitates the transition to flying the Technically Advance Aircraft and the Garmin glass cockpit.

Garmin G1000 PFD & MFD exams P/N 13-05799 $149.75
Garmin G1000 PFD & MFD exams P/N 13-10296 $199.00

AIRBORNE RADAR ONLINE TRAINING

Airborne-Radar.Com is an online course that teaches how to use airborne weather radar. But, it goes beyond the use of airborne radar, teaching thunderstorm theory, hazards of thunderstorms, airborne radar theory and airborne radar techniques. A Final Exam concludes the course, enabling the user to test their knowledge. Airborne-Radar.Com is available to PC and Mac users. Most seasoned professional pilots will admit that there has always been a lack of adequate radar training. The mantra has always been, “fly the airplane, and figure it out as you go.” But there’s no reason to continue with that mindset. Now Airborne-Radar.Com provides the only source of thorough, interactive online training for airborne weather radar...

Private Pilot P/N 13-10050 $69.50
Instrument P/N 13-10051 $79.95

VOR/NDB SIMULATOR V2.0

While The Navigation CD-ROM™ teaches the theory behind navigation, VOR NDB Simulator™ enables you to practice real-time VOR and NDB navigation on your computer! You don’t have to go through laborious control, radio communications, airspace, traffic, or other major tasks, as you would in real flight. Aircraft are expensive to operate, and they make poor classrooms. With VOR NDB Simulator, you can train on navigation techniques and develop skills on your computer, in an inexpensive and non-distracting environment.

Features: • On-screen instructions are fully-annotated and narrated • There’s only one Simulator Module—you can choose any array of instruments to use, from the Instrument Manager • The Instrument Manager lets you select flight and nav instruments in an array of combinations (including Directional Gyro, Course Deviation Indicators, Automatic Direction Finder, Horizontal Situation Indicator, and Radio Magnetic Indicator) • Instruments are draggable, allowing you to arrange them as they exist on your aircraft’s instrument panel • VOR and NDB navigation can be performed simultaneously on the same screen • “Random” function for random aircraft heading, navaid positions, aircraft position, and wind speed and direction • Aircraft can be turned continuously at standard rate (3° per second) and slower with either the keyboard or mouse • ADF interference causes the ADF or VOR needle to vary • VOR navigation more difficult • “Show/Hide” buttons allow you to hide and show the aircraft, course lines, path flown, and heading vectors • The instruments and map area can be printed by the default printer configured on your computer • G200 will guide your flight • All navigation with standard microphone types (electret, dynamic and powered dynamic)

P/N 13-01437 $69.00
Download Version P/N 13-11402 $64.95

GETTING AROUND ON THE GROUND

The only interactive, multimedia tool available that teaches the types of airport markings, signage, and lighting. It also goes beyond simple technical knowledge by outlining hazards, safety tips, and procedures that will keep help you keep, knowledgeable, and safe on the ground. A real-time, 3-D, virtual airport taxi simulator. Get the ATIS, exchange communications with Air Traffic Control, and follow taxi instructions including hold short and runway crossing tasks. Two airports and forty challenging taxi scenarios are included. And, there’s no need for expensive hardware such as rudder pedals, because you control your aircraft with just a few keys on your keyboard. It’s easy! By completing all the content and taking the Final Exam, you can opt to obtain credit for the FAA WINGS program. The WINGS program is a continuing education program for pilots, sponsored by the FAA. You’ll not only learn to be a safer pilot on the airport surface—you’ll also be able to prove your commitment to flight safety with your WINGS account.

P/N 13-11403 $99.00

MULTIMEDIA SOFTWARE FLITESCHOOL

In terms of speed, graphics, clarity, and learning value, FliteSchool from Jeppesen Software is unequalled in its class. Much more than a series of “flash cards” that help you memorize answers to FAA exams, FliteSchool provides programmed learning modules and Hypertext referencing that leads through a series of associated references to learn more, faster! FliteSchool’s Dynamic Cybernetic Learning enhances your training by analyzing your responses and leading you to new subject areas. You’ll find studying with FliteSchool to be more interesting and more effective than other software programs and many video tapes. Material is organized into 20 categories and monitored by topic. The software takes you step-by-step through each subject area and returns to areas where you need more work. When you’ve mastered enough material to pass the FAA exam, you receive a graduation certificate for your instructor to sign off.

Private Pilot P/N 13-10050 $69.50
Instrument P/N 13-10051 $79.95
VTS MULTIMEDIA TRAINING SOFTWARE
VTS training tools are priced affordably to allow each student to own a personal copy of the software. Each aircraft systems are covered in detail far surpassing the guidance information provided in Pilots Information Manual. For example, the electrical schematic is presented on-screen just as it appears in the information manual. But instead of just sitting there looking mysterious and intimidating, this virtual schematic comes to life with a click of the mouse. Controls and indicators from the cockpit are also available on-screen, creating an animated simulation of the entire system.

Aircraft Systems - Warrior
P/N 13-03388 $149.95

KITLOG PRO SOFTWARE
KitLog Pro is an organizational tool that is the builder of any type of aircraft to create, archive, maintain, and display the entire building process. Whether your experimental aircraft is a plans-built EAA bi-plane, a Van's RV, a GlaStar, or even a Lancair IV-P, KitLog Pro is the most efficient way to ensure that you meet the requirements of a builder’s log for the certification of your homebuilt aircraft.

Features: • Complete Builder’s log to satisfy FAA requirements
Detailed Expense Log • Test Flight Log • Maintenance Log • Weight & Balance Calculator
P/N 13-03705 $49.95

MAX TRECSCOTT S G1000™ GLASS COCKPIT HANDBOOK
This edition includes dozens of tips and features for G1000 and Perspective glass cockpits, including Cirrus SR20 and SR22 Aircraft. Chapter 11 on Instrument Flying was completely rewritten to make it easier for pilots to understand the many nuances of using the G1000 and Perspective for instrument flight. There is a revolution sweeping through general aviation. In less than two years, the industry has converted to ship all new aircraft with glass cockpits, rather than traditional instrument panels. The most popular and comprehensive guide to operating these airplanes continues to be Max Trescott’s G1000 and Perspective Glass Cockpit Handbook. This book makes it easy for you to quickly become an expert on operating the G1000 and Perspective systems in any aircraft. Instructors agree that the cockpit is not an ideal learning environment. Reading this book, written by a Master Flight Instructor, is one of the most efficient and cost effective ways to learn the G1000 or Perspective before stepping into the cockpit for your first transition lesson.
P/N 13-05533 $36.99

IFLIGHTPLANNER SUBSCRIPTION
This is a subscription only!** Email address required for purchase. iFlightPlanner is general aviation’s most comprehensive suite of easy-to-use flight planning tools for private and corporate pilots. Featuring iFlightPlanner.com, mobile.iFlightPlanner.com and iFlightPlanner iPad, iFlightPlanner allows pilots to intuitively plan flights, calculate weight & balance, plan routes, retrieve certified weather files, and file flight plans from any computer or your iPad. Note: iFlightPlanner currently supports flight planning within the United States, however iFlightPlanner for iPad does support worldwide GPS tracking and color-coded METARs and TAFs.
P/N 13-16354 $89.99
Plus Annual P/N 13-16422 $139.99
Quarterly P/N 13-16355 $24.99
Plus Quarterly P/N 13-16421 $39.99

ELITE V8.5 FLIGHT TRAINING SOFTWARE
For years, professional pilots had no choice other than to maintain IFR proficiency in an expensive full flight simulator. By introducing the world’s first professional PC-based airliner-class simulator, ELITE offers a completely new way to practice IFR procedures to keep skills sharp. ELITE Pilot Premium version 8.6 allows pilots of all levels of experience to exercise their flying skills using the power of the personal computer for over two decades. Complete startup and shutdown procedures, fly different patterns or approaches, practice with normal or abnormal situations, or maintain proficiency, in a completely controllable virtual environment with new 2011 navigational data.
P/N 13-14948 $710.00

RACOON RADIO COMMUNICATIONS TRAINER
The ultimate radio communications trainer. Listen to actual class B airspace radio calls. A complete C curriculum. From the Main Menu you have access to video introductions, actual arrival and departure procedures, a comprehensive radio communication ground school and knowledge quizzes.

Features: • Photo routes guide you through the arrival and departure procedures for airports in various airspaces. • Hear and read actual ATC radio recordings from multiple airports. • The ground school curriculum covers communication procedures, air traffic control systems, related equipment. • Challenge yourself using the practical cockpit perspective quiz.
P/N 13-07341 $199.00

HELIvertiser MANEuVERS GUIDE
The Maneuvers Guide provides step-by-step guidance with over 2 hours of video and animated media. Each maneuver is introduced by designated pilot examiner Ben Fouts. A detailed graphical animation follows, explaining the maneuvers step by step. Then there is also a cockpit view available showing the flown maneuver from pilot’s perspective! Additionally you can profit from the “Examiner’s Perspective” videos. Here you will get important information about common errors and see what an FAA examiner is looking for during the check ride. The software is a great learning tool for students and CFIs alike. System Requirements: • High Definition image quality • 64-bit Windows Vista, 7 (required)

Note: This Software does not run on iPad or iPhone min. 1 GB RAM recommended.
P/N 13-12739 $99.00

HELICOPTER MANEuVERS GUIDE
The Maneuvers Guide provides step-by-step guidance with over 2 hours of video and animated media. Each maneuver is introduced by designated pilot examiner Ben Fouts. A detailed graphical animation follows, explaining the maneuvers step by step. Then there is also a cockpit view available showing the flown maneuver from pilot’s perspective! Additionally you can profit from the “Examiner’s Perspective” videos. Here you will get important information about common errors and see what an FAA examiner is looking for during the check ride. The software is a great learning tool for students and CFIs alike. System Requirements: • High Definition image quality • 64-bit Windows Vista, 7 (required)

Note: This Software does not run on iPad or iPhone min. 1 GB RAM recommended.
P/N 13-12737 $199.00

Note: This product is drop shipped direct from the manufacturer. If shipping international, inbound freight from manufacturer to our warehouse will apply in addition to outbound freight from our warehouse to destination.

This modern design is intended to take the flight simulators’ instruments off our desks and put them in a more realistic simulator environment. Although the pre-drilled installation holes are universal in nature, they are also specific for the Saitek brand of instruments. The Volair Sim flight chassis’ name was derived as a play on the Spanish /Italian word volare, which means ‘to fly’. This futuristic looking layout is the near perfect setup for most of our flight simulations. You can adapt any piece or combination of pieces of flight sim gear to the basic chassis and go even further with a little imagination, a drill and a screwdriver. The Volair Sim is a quality product that enhances the flight simulation environment to near real-world expectations. The high quality powdered tubular steel chassis built around the adjustable real world racing seat is a true joy to experience. The pre-drilled mounting holes and innovative design features along with the universal adjustable mounts adds to the flexibility of the unit. The ability to mount up to a single 42 IN VESA spec monitor or three 19 – 30 IN widescreen monitors makes it an instant hit with all flight simmers.
P/N 13-14948 $710.00

Note: This product is drop shipped direct from the manufacturer. If shipping international, inbound freight from manufacturer to our warehouse will apply in addition to outbound freight from our warehouse to destination.

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CH VIDEO GAME JOYSTICKS
Your pulse quickens, your muscles tighten, adrenaline surges through your veins as you engage enemy aircraft in gut wrenching aerial combat. With CH Products simulation controllers, the realism of your next combat mission ascends to new heights.

FLIGHTSTICK PRO
• Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 12 buttons – X, Y, and Z axes for Aileron, Elevator, and Throttle control • 4 traditional push buttons – 1 eight direction POV HAT switch • Total of 80 programmable functions with Control Manager software (included) • Simple ambidextrous handle • Dual rotary trim wheels for precise adjustment of ailerons and elevators • Side Throttle wheel • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty
P/N 13-05613 $83.75

FLIGHTSTICK
• Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 24 buttons – X and Y axes on miniature joystick – Z axis on accurate throttle sliding motion – 3 traditional push buttons – 1 mode switch button – 3 four direction HAT switches – 1 eight direction POV HAT switch • Total of 176 programmable functions with Control Manager software (included) • Three color mode indicator LEDs on base • Realistic F-16 handle • Dual rotary trim wheels for precise adjustment of ailerons and elevators • Side Throttle wheel • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty
P/N 13-05615 $129.75

PRO THROTTLE
• Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 24 buttons – X and Y axes on miniature joystick – Z axis on accurate throttle sliding motion – 3 traditional push buttons – 1 mode switch button – 3 four direction HAT switches – 1 eight direction POV HAT switch • Total of 176 programmable functions with Control Manager software (included) • Three color mode indicator LEDs on base • Ergonomic left hand HOTAS design • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty
P/N 13-05616 $130.85

COMM 1 VFR/IFR RADIO SIMULATOR
Learning to fly? Not flown for a few years? Talking on the radio is one of the most important, but least emphasized, skills you need to fly safely in today’s busy airspace. COMM1 VFR Radio Simulator is a proven tool for getting you up to speed on communicating professionally with ATC, Flight Services, Flight Watch, and other ground personnel. 6+ hours of training, comprehensive audio-visual tutorials, realistic flight scenarios, Interactive practice exercises w/ ATC, playback your exchange w/ATC, and compare yourself to an expert. Works with MAC and Windows 8. 486/66 MHz PC processor, 16 MB RAM, 4x speed CD-ROM drive. Sound Blaster compatible sound card. Microphone and speakers (or headset). 800 x 600 resolution display with 256 colors. Works with MAC and Windows 8.

P/N 13-32221 $93.95
P/N 13-05591 $112.95
P/N 13-33331 $22.95

Panel Planner Pro Software
Panel Planner software gives you the power to design and build instrument panels in record time. Simply drag full-color, photorealistic instruments, avionics, and cockpit controls into place on an aircraft panel template or photograph. Panel Planner tracks total cost, total weight, and peak current, generates and equipment list, and even prints actual-size hole-cutting templates and color mock-ups. Panel Planner is easy to install and use with its continuous context-sensitive help to guide you every step of the way. The updated database includes equipment from King, Narco, Sigma-Tek, David Clark, P.S. Engineering, Insight, Garmin, IFR, Il Morrow, UMA, Mitchell, Trimble, Arnav, S-Tek, Century, Vision Microsystems, Avidyne, Digifly, Skyforce, and many more; PLUS switches, lights, control cables, vents, circuit breakers, trim indicators, etc. Create labels, color-coded annunciators, or placards.

LOGTEN PRO PILOT LOGBOOK APP
The leading international pilot logbook built for the Apple platform. LogTen Pro is the electronic logbook of choice for tens of thousands of Mac pilots in nearly 200 countries, and in every major airline. Designed to be completely customizable for your type of flying, country, region, company so you can track exactly what you need.

Features:
• Synchronize seamlessly with iPad and iPhone versions (but not required)
• Whether you purchase the Mac version or Universal iPAD/iPhone version, your whole logbook travels with you!
• Data entry is quick and intuitive
• Easily imports existing data and you can customize to your needs
• Automatically tracks currency and duty limits
• Harnesses all the power of Apple Smart Groups so you can slice and dice your data instantly to provide answers to any question about your flight time (great for insurance, flying clubs, interviews, etc.)
• Tracks certificates, ratings, endorsements, medicals, expenses and flight reviews
• Prints stunning reports and official logbooks, over 80 reports available out of the box or you can create your own!
• Automatically calculates night time
• Exports flights and trips right to your calendar
• Automatically processes airline schedules
• Visual limits lets you see at a glance if there’s any issues with your schedule
• Customer service second to none...And a lot more

Apple/MAC $99.99
iPHONE/iPAD $79.99

PANEL PLANNER INSTRUMENT PANEL DESIGN SOFTWARE
Panel Planner software gives you the power to design and build instrument panels in record time. Simply drag full-color, photorealistic instruments, avionics, and cockpit controls into place on an aircraft panel template or photograph. Panel Planner tracks total cost, total weight, and peak current, generates and equipment list, and even prints actual-size hole-cutting templates and color mock-ups. Panel Planner is easy to install and use with its continuous context-sensitive help to guide you every step of the way. The updated database includes equipment from King, Narco, Sigma-Tek, David Clark, P.S. Engineering, Insight, Garmin, IFR, Il Morrow, UMA, Mitchell, Trimble, Arnav, S-Tek, Century, Vision Microsystems, Avidyne, Digifly, Skyforce, and many more; PLUS switches, lights, control cables, vents, circuit breakers, trim indicators, etc. Create labels, color-coded annunciators, or placards.

PANEL PLANNER PRO (2.9 VERSION)
The PPJ 3.4 update has 100’s of new panels and instruments. Please download the Excel spreadsheets. Hundreds of hours were spent reworking older panels to bring out more detail. Instrument manufacturers added like Lonestar that represent real, important auxiliary avionics and more smaller aircraft manufacturers. Over 1600 instruments on 600 aircraft panels. Outputs DXF files for CNC, laser/water jet. Updates over the internet. Full-size cutting template printouts Measurement and alignment tools. Edit existing or create new panel templates. Multiple zoom and magnification levels. Actual-size color prints from desktop printers.

Panel Planner Pro for Windows P/N 13-44415 $249.95
Panel Planner Pro for Macintosh P/N 13-06210 $249.95
Start Up procedure: 1. Put it on a table. 2. Turn it on. 3. Fly. Practicing at home is a great idea for pilots. You can keep your skills sharp and your mind in the cockpit even when you can’t make it to the airport. In reality, however, two obstacles deny a majority of pilots effective home flight simulation: purchasing and assembling the right hardware requires a PhD in computer know-how, and after flying around the virtual world for a bit, most pilots get bored. Redbird Flight Simulations, the world leader in FAA-approved flight simulators for general aviation, has addressed both these issues with the Jay. The Jay contains the monitor, speakers, computer and flight controls—all-in-one unit that is ready to fly right out of the box. It boots up directly to a launch screen where you can select your airplane, airport and weather conditions. Push the green button and you’re on a runway and ready to go. Scenario-based training? It’s built in. The Jay is more than a simulator—it’s a flight experience device supporting training, proficiency, and just plain fun! In addition to the free flight mode where you select the aircraft and conditions, the Jay has a scenario mode where you can load a preset scenario and fly it. A scenario could range from a simple flight challenge to a complex flight with multiple potential outcomes. For example, a magazine article on an aircraft accident could be linked to a mission where the Jay owner flies that scenario. Redbird Media, a company specializing in curriculum for simulation, will create many of these scenarios in partnership with AOPA Pilot and other training outlets and magazines. The scenario exchange will be open to any company wishing to create scenarios for the Jay. A one-button update on the Jay will load the latest scenarios available for free or that the owner has purchased. The Jay home screen also has a built-in web browser to access scenario add-ons, such as video, or download simulator extensions such as additional aircraft or scenery. The Jay chassis is metal, not plastic. Control smoothness is paramount. The parts should last indefinitely. In addition, there are pilot-centric touchpads........P/N 13-15906 ....$2,995.00 

**THE JAY VELOCITY EDITION BY REDBIRD**

The Jay Velocity Edition contains all of the standard Jay features, while adding upgraded computing power and robust components to allow it to be used in demanding environments like middle and high schools, museums, and public access kiosks. The clean sheet design prioritizes one thing for the classroom: Get the student learning with a minimum of fuss. There are no peripherals to configure, no systems to install. Take it out of the box, plug it in, and turn it on. Now say, "preflight complete." The Jay contains the monitor, speakers, computer and flight controls—all-in-one unit that is ready to fly right out of the box. It boots up directly to a launch screen where you can select your airplane, airport and weather conditions. Push the green button and you’re on a runway and ready to go........P/N 13-20712 ....$3,995.00 Extended Warranty - Jay Velocity (12 Months) S-1107 P/N 13-22372 ....$399.00 Extended Warranty - Jay Velocity (24 Months) S-1108 ....P/N 13-22373 ....$499.00 

**THE JAY BY REDBIRD**

**REDBIRD ALLOY SIMULATOR CONTROLS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
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<tr>
<td>13-19645</td>
<td>Redbird Control Yoke</td>
<td>$799.00</td>
</tr>
<tr>
<td>13-19642</td>
<td>Redbird Single Engine Lever Throttle Quadrant</td>
<td>$575.00</td>
</tr>
<tr>
<td>13-19643</td>
<td>Redbird Twin Engine Lever Throttle Quadrant</td>
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<tr>
<td>13-19644</td>
<td>Redbird Single Engine Lever Throttle Quadrant</td>
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<tr>
<td>13-22368</td>
<td>Redbird Alloy Throttle Mounting Arms</td>
<td>$83.75</td>
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<tr>
<td>13-22369</td>
<td>Redbird Corvus Foreflight Ads-B Connection</td>
<td>$599.00</td>
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**REDBIRD FLIGHT SIMULATORS**

**OTHER REDBIRD SIMULATORS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model Number</th>
<th>Description</th>
<th>Starting Price</th>
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<tbody>
<tr>
<td>13-15889</td>
<td>Redbird LD</td>
<td>Wrap around visuals without cockpit enclosure</td>
<td>$32,800.00</td>
</tr>
<tr>
<td>13-15890</td>
<td>Redbird SD</td>
<td>Enclosed similar to FMX, but no motion</td>
<td>$42,800.00</td>
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<tr>
<td>13-15891</td>
<td>Redbird FMX</td>
<td>Full motion, enclosed cockpit, flagship model</td>
<td>$64,800.00</td>
</tr>
<tr>
<td>13-15892</td>
<td>Redbird MX2</td>
<td>Full motion, compact for limited space</td>
<td>$58,800.00</td>
</tr>
<tr>
<td>13-15893</td>
<td>Redbird MCX</td>
<td>Full motion, ideal for CFI, CFII, CRM Training</td>
<td>$69,800.00</td>
</tr>
<tr>
<td>13-15902</td>
<td>Redbird XWIND</td>
<td>Full motion, teaches cross wing techniques</td>
<td>$31,900.00</td>
</tr>
<tr>
<td>13-15903</td>
<td>Redbird XWIND SE</td>
<td>Full motion, with more LCD exterior visuals</td>
<td>$34,900.00</td>
</tr>
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</table>

**REDBIRD TD BY REDBIRD**

Table not included

FAA Approved BattD Simulator

The Redbird TD and TD2 are table-mounted flight training devices that are designed with the eras of the advanced flight training tools found on our large simulators and puts it in a desktop device. Whether you are a flight school interested to enhance your training with simulation, or an individual pilot looking to hone your skills and stay current from the comfort of your home or office, the Redbird TD is the perfect solution. With its impressive range of features and training tools, it’s no surprise that it has been FAA approved as a Basic Aviation Training Device. The Redbird TD represents a generic single engine piston aircraft. It is available in either glass or steam gauge configurations.

Ergonomically Correct Design

The Redbird TD is the first table-mounted flight training device, designed with the ergonomics of flight in mind. Traditional “desktop” flight training devices sit on top of a table or desk, causing the pilot to reach up for the yoke and to look unrealistically high for the gauges. The TD’s unique mounting system allows it to be hung under the table, placing the yoke, switches, gauges and visuals in the correct and most realistic position for the pilot.

Features:

- 90-day warranty with optional 1 or 2-year extended warranty
- Interchangeable instrument panel - traditional or glass configurations
- Complete terrain and airport database
- Equipped with computer, monitor, instrument panel, keyboard and speakers
- Ergonomically correct design which easily slides onto a sturdy, solid table
- FAA Approved BATD with optional rudder pedals
- Failure Hotkeys

Room Requirements:

You will need a sturdy, solid table with a maximum tabletop thickness of 2.25” including any rails and the underlying structure. There should be at least 28” between the legs of the table to allow the TD to slide on to the table smoothly. Please note that you must install the adjustable supporting leg for added stability, if you are not using a Redbird TD table or platform.

Redbird TD ......................................................P/N 13-15905 ....$6,995.00
Redbird TD2 ....................................................P/N 13-15904 ....$7,995.00 

**OPTIONS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>TD &amp; TD2 Sims. Come with a single screen. This kit adds 2 side screens for a panoramic view.</td>
<td>13-15870</td>
<td>$1,695.00</td>
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<tr>
<td>Redbird Table For TD And TD2</td>
<td>13-15860</td>
<td>$629.00</td>
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**Part No.**

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>Redbird Wireless Adapter For The Jay</td>
<td>$58.95</td>
</tr>
<tr>
<td>Redbird RDT Rudder Pedals</td>
<td>$549.00</td>
</tr>
<tr>
<td>Extended Warranty - Jay (12 Months) S-1105</td>
<td>$299.00</td>
</tr>
<tr>
<td>Extended Warranty - Jay (24 Months) S-1106</td>
<td>$399.00</td>
</tr>
</tbody>
</table>

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
SAITEK FLIGHT SIMULATION

SAITEK X52 FLIGHT CONTROL SYSTEM
Enhanced game play through intuitive Multi-Function display (MFD), illuminated buttons and MFD - ideal for low light environments. Rubber grips and ergonomic design for increased comfort and fatigue-free gaming. Includes Roger Wilco Chat software - the ideal accompaniment for on-line multiplayer gaming.…….P/N 14-02845………..$149.99

SAITEK X52 PRO FLIGHT SYSTEM
The MFD screen is now interactive. Now you can display important in-game information such as the Radio Stack and interact with your games directly. Shipping with support for Microsoft’s Flight Simulator X, there’s also a Software Development Kit (SDK) included which allows budding programmers to create interactions with their own favorite games.

P/N 14-00649…………$199.99

SAITEK PRO FLIGHT YOKE SYSTEM
Meets the exacting needs of the true flight simulation enthusiast. Stainless steel shaft, ergonomic controls, integrated chronograph and separate throttle quadrant. Use the integrated USB Hub to easily connect other parts of the Saitek Pro Flight range of products, such as additional Pro Flight Throttle Quadrant or Pro Flight Instrument Panel (sold separately).

P/N 14-00598………..$169.99

SAITEK PRO FLIGHT INSTRUMENT PANEL 6 PACK
Featuring a stunning 3.5” colour LCD screen, the Instrument Panel can display 6 of the main cockpit instrument panels from Microsoft’s Flight Simulator X. Choose between 6 different flight instruments at the touch of a button: Altimeter, Attitude Indicator, Airspeed Indicator, Compass, Turn and Slip indicator, and Vertical Speed.

P/N 14-03010………..$859.00

FLIGHT TRAINING COCKPIT ADVANCED PANEL
Advanced Panel offers a cockpit-realistic way to mount Saitek Pro Flight Simulation Instruments and Controls. The Advanced Panel twist-and-remove pre-cut tabs allow you to add Saitek hardware to your Advanced Panel over time and trade simulation devices between slots. Small tabs accommodate up to 10 Pro Flight Instruments. Each Saitek Flight Instrument Panel allows you to digitally switch between simulating eleven flight instruments. Alternatively, mount a Hannspree HL161ABB 16” Screen LED-Lit Monitor in one of several possible Panel face mounting configurations.

P/N 13-13088………..$242.80

HONEYCOMB ALPHA FLIGHT CONTROL YOKE AND SWITCH PANEL
The Honeycomb Alpha Flight Control is the most advanced flight simulation system available to simmers, flight students, and pilots for setup at home and features a complete backlit switch panel and ignition switch. It was designed and developed in California by pilots and aerospace engineers to ensure the most realistic flight experience.

P/N 13-22139………..$249.99

SAITEK PRO FLIGHT THROTTLE QUADRANT
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**World Aeronautical Charts for Alaska**

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