### AEROX HIGH-DURATION AVIATION OXYGEN SYSTEMS

Add to your flying comfort by using oxygen at altitudes as low as 500 ft. Aerox Oxygen Systems include lightweight aluminum cylinders, regulators, all hardware, flow meters, and nasal cannulas (masks available as option). Oxysaver oxygen saving cannulas & Aerox Flow Control Regulators increase the duration of oxygen supply about 4 times, and prevent nasal irritation and dryness. Complete brochure available on request.

### AEROX RETROFIT KITS FOR BUILT-IN SYSTEMS OR OTHER PORTABLES

1.) Oxysaver® Cannula – this comfortable device may be used in place of your mask up to 18,000 ft. MSL. It has a conserving feature which can extend your oxygen supply by up to four times. 2.) Aerox Flowmeter/indicator – this combination device conveniently reads both mask and cannula flow rates in MSL altitude, and Aerox Adjustable Flow Restrictor – a thumb screw operated needle restrictor valve allows you to precisely control flow. Shown are most of the connectors for general aviation. If you want us to supply the connector, be sure to indicate which is your type.

### FITTING IDENTIFICATION CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>No. of Users</th>
<th>Cylinder Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>1</td>
<td>6 Cu. Ft.</td>
<td>13-18895</td>
<td>$419.00</td>
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<tr>
<td>1C</td>
<td>1</td>
<td>9 Cu. Ft.</td>
<td>13-18896</td>
<td>$466.00</td>
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<tr>
<td>1D</td>
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<tr>
<td>2A</td>
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<td>13-18898</td>
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<tr>
<td>2D</td>
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<td>13-18900</td>
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<td>2F</td>
<td>2</td>
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<tr>
<td>2M</td>
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<td>22 Cu Ft.</td>
<td>13-18902</td>
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### COMPLETE AEROX SYSTEMS (ADJUSTABLE FLOW)

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<td>13-18897</td>
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<tr>
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<tr>
<td>6M</td>
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<td>33 Cu Ft.</td>
<td>13-18905</td>
<td>$944.00</td>
</tr>
</tbody>
</table>

### AEROX ACCESSORIES

- **CC Oxysaver Cannula**: 13-18910 $35.50
- **CR-A Regular Cannula**: 13-18920 $8.75
- **Metal Clamp Bracket for 13 or 22Cft cyl**: 13-18970 $69.75
- **CR-C Reg. Cannula (Child)**: 13-18930 $12.80
- **MSK-A Rebreather Mask**: 13-18940 $23.50
- **Aerox Oxygen System**: 13-02071 $62.85
- **Aerox Oxygen System with Child Mask**: 13-18953 $23.50
- **Place Regulator With Gauge For 540 Valve**: 13-07737 $229.00
- **2 Place Regulator With Gauge For 540 Valve**: 13-07734 $265.95
- **4 Place Regulator With Gauge For 540 Valve**: 13-07736 $432.00
- **Glo-tec Pressure Gauge**: 13-06255 $29.85
- **Flowmeter with needle valve**: 13-04683 $84.90

### CONTROL SYSTEMS

- **AEROX PRO-O2 EMERGENCY HANDHELD OXYGEN SYSTEMS**: Provides oxygen until the aircraft can reach a lower altitude. And because Pro-O2 is refillable, there is no need to purchase replacement O2 cartridges. During short flights at altitudes between 12,500 ft. MSL and 14,000 ft. 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 Cu. Ft. mask**: $395.00
- **4 Cu. Ft. mask**: $414.00

#### Pro-O2-Plus Portable Oxygen System

- **P/N 13-23658**: $429.00

### 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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Aerox No.</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
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<td>4110-711-1</td>
<td>13-06652</td>
<td>$269.95</td>
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<tr>
<td>Medium Without Microphone</td>
<td>4110-711-2</td>
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<td>Large Without Microphone</td>
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<td>$267.95</td>
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<tr>
<td>Small</td>
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<tr>
<td>Medium</td>
<td>4110-712-2</td>
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<tr>
<td>Large</td>
<td>4110-712-3</td>
<td>13-06657</td>
<td>$595.00</td>
</tr>
</tbody>
</table>

### 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 strip on the back for mounting.

<table>
<thead>
<tr>
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<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Goggles</td>
<td>$138.75</td>
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<tr>
<td>Soft Case</td>
<td>$115.75</td>
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### BR-M AEROX BRACKET

Bracket Assembly, SS, with Lock, or Cyl Diameter (2 needed per system). P/N 13-04033 $68.75

### AEROX BOOMULA-HEADSET MOUNTED OXYGEN CONSERVING CANNULA

The Aerox BOOMULA is an integrated conserving-cannula, replacing the ubiquitous “mustache” cannula with a headset-mounted cannula. The conserving pendant feature is attached to the Aerox BOOMULA, making it out of the way of the user’s face. The Aerox BOOMULA has a unique hard-mounting feature for the Bose® A20 headset – with an included mount that screws into the headset, replacing the cover opposite the microphone mount, for easy access and removal. A universal, click-on mount is included also. P/N 13-04037 $146.00

### AEROX FBO-1 FILLING STATION

Whether making money 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 C4A 540 cylinder connectors, 6” high-pressure (3000 psi) braided stainless filler line, contents gauge, flow restrictor and adapters to fit Puritan-Bennett, Scott, and CGA 540 filler ports. P/N 13-04534 $409.00

### AEROX CGA-540 SINGLE CYLINDER FILLING STATION

Transfers between cylinders quickly and easily. 6” braided stainless line, gauge, restrictor, and CGA 540 filler. P/N 13-04535 $259.95

### OPTIONAL BUILT-IN ADAPTORS

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerox Scott Built-in Adapter</td>
<td>$74.95</td>
</tr>
<tr>
<td>Aerox Puritan-Bennett Built-in Adapter</td>
<td>$89.95</td>
</tr>
<tr>
<td>Portable System Filling adaptors for standard C4A 540 supply cylinders:</td>
<td></td>
</tr>
<tr>
<td>Aerox Scott Portable Filling Adapter</td>
<td>$77.75</td>
</tr>
<tr>
<td>Aerox Puritan-Bennett Portable Adapter</td>
<td>$96.75</td>
</tr>
</tbody>
</table>
AEROSIL 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. Quick mask is easily contoured with the available carbon fiber stowage cup, aerox™ is also able to manufacture a portable inflation 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 13-12358 ........$3,850.00

AEROSIL SEAT BACK DELUXE CARRIER


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 function 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 - 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 ILLYRIAN SMART OXIMETER

The Illyrian smart 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, or installing the free Aithre app and your experimental avionics when using the Aerox oximeter readings to an iOS device and Apple Watch. Features: • 240 x 320 pixel TFT resistive touch LCD display • Rich and vibrant graphical gauges • Powered by three parallel low energy AAA batteries • Battery life up to 30 hours - and the first dedicated avionics display that controls your oxygen dosage per station based on altitude, carbon monoxide, blood oxygen, and heart rate. Features: • 240 x 320 pixel TFT resistive touch LCD display • Rich and vibrant graphical gauges • Powered by three parallel low energy AAA batteries • Battery life up to 30 hours.

AITHRE OXYGEN BOTTLE WITH FIXED FLOW REGULATOR 47L

The Aithre personal oxygen bottle is constructed from lightweight composite carbon fiber with an aluminum lining and is designed for low altitude and short duration mid-altitude use. Offering a 2000 PSI working pressure, simple on-off gauge, and preset 0.5 LPM flow rate, this bottle is ideal for pilots in private GA aircraft for refreshing before an approach and supporting brief climbs above terrain or weather at altitudes of 5k MSL - 15k MSL. Small enough and light enough to fit in your flight bag, the Aithre personal oxygen bottle is 100% refillable and can store 47L of compressed oxygen at 2000 PSI. BOTTLE SHIPPED EMPTY - No oxygen is contained in the bottle when shipped - Filling port is 3/8"-24 UNF (FAM-PB3 adaptor from Aerox) • Fill yourself using Aerox transfilling equipment (FA540-72-G hose/gauge from Aerox). Features: • 3/8"-24 UNF filling port • 0.5 LPM flow rate • Simple on-off gauge • 100% refillable ..............P/N 13-23419 ..........$450.00

AITHRE UNI-FLO2 CANNULA

The Uni-Flo2 cannula is an innovative single prong cannula which provides supplemental oxygen delivery through a single nostril. The cannula contains no natural latex rubber, and has a very soft nasal tip. This cannula can be used on either nostril, and contains a memory system which allows it to be contoured to your facial structure 7 feet..............P/N 11-19063 ..........$20.00

AITHRE DUAL CANNULA

The Aithre cannula is 100% pure silicone and very soft. This cannula will not stiffen, crack, or kink with low temperatures and is extremely comfortable to wear, making it ideal for high altitude flights or storage in cold environments..............P/N 11-19064 ..........$26.70

AITHRE BOOM CANNULA AND ADAPTOR

The Aithre boom cannula marries functionality with elegance to provide the most convenient, comfortable, and stylish cannula ever devised. A 100% silicone cannula combines with an articulating boom and an anodized and laser etched aluminum pivot adapter to provide flexibility, and aesthetic appeal to oxygen when needed. Simply lower the boom into position when oxygen is required and raise the boom when oxygen is no longer needed. Further, the Aithre boom cannula duals as a mount for the portable Illyrian oximeter, helping support safety and comfort with continuous oximeter readings throughout all phases of flight..............P/N 13-24376 ..........$161.75

MOUNTAIN HIGH OXYMIZER CANNULA

The Oxymer M type (mustache-style) oxygen-conserving cannula is the most popular version. The Oxymer is standard issue with our XCR and XCP systems and may work with almost any adjustable constant flow regulator .....................P/N 13-11592 .............$38.99

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 adjustable pad. It can swivel 360 degrees and slide 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 ..........$108.95

MH E-Z BREATHE II BOOM CANNULA FOR XCP - FLOWMETER

The E-Z Breathe Boom Cannula II™ kit for use with Mountain High XCP portable constant-flow systems. This model will also work with most all constant flow systems that use a Flow-Meter .....................P/N 13-23358 ..........$108.95

AITHRE HEALTHVIEW

The Healthview is the first dedicated avionics display for health information, including gauges for blood oxygen, heart rate, respiration rate, flow rate, cabin pressure, temperature, carbon monoxide, oxygen tank pressure, and wing tip temperature/dewpoint spread - and the first dedicated avionics display that controls your oxygen dosage per station based on altitude, carbon monoxide, blood oxygen, and heart rate. Features: • 240 x 320 pixel TFT resistive touch LCD display • Rich and vibrant graphical gauges • Powered by three parallel low energy processors and BLE wireless communication module for an exciting low power, high functionality display..P/N 11-19684 ..........$534.00

AITHRE ALTUS MESO PORTABLE OXYGEN TANK PRESSURE MONITOR - WITH IOS APP

The Altus Meso is the second generation Altus smart tank monitor from Aithre with all the same innovative functionality now packaged in a miniature form factor. Altus Meso wirelessly pairs to your iOS device and Apple Watch to display pressure, flow rate, and time remaining, including oxygen trend graphing and much more, now using only USB power (optional 5V hardwired experimental aircraft installed version available upon request). This small device turns your portable oxygen tank more usable and accessible without the expense and hassle of a traditional built-in system. (Black)..............P/N 11-18407 ..........$271.95

AITHRE SHIELD EDOT 5.0 CARBON MONOXIDE DETECTOR WITH IOS APP

The Aithre Shield 5.0 eDot CO Detector - FAA Part 23 Approved - Panel Led Indicator with IOS App. FAA approved for Certified Aircraft but also available for Experimental Aircraft builders: The Aithre Shield eDot 5.0 is the first behind-the-ear device that puts carbon monoxide readings output to panel mounted LED light and to IOS device. Features a simple wiring installation, a small footprint, IOS app, WatchOS app, and 10 years without recalibration for the CO ppm..............P/N 11-18408 ..........$450.00

AITHRE OXYGEN BOTTLE WITH FIXED FLOW REGULATOR 152L

The Aithre personal oxygen bottle is constructed from lightweight composite carbon fiber with an aluminum lining and is designed for low altitude and short duration mid-altitude use. Offering a 2000 PSI working pressure, simple on-off gauge, and preset 0.5 LPM flow rate, this bottle is ideal for pilots in private GA aircraft for refreshing before an approach and supporting brief climbs above terrain or weather at altitudes up to 15k MSL. Small enough and light enough to fit in your flight bag, the Aithre oxygen bottle is 100% refillable and can store 152L of compressed oxygen at 2000 PSI. If you don’t already fill your own oxygen tank more usable and accessible without the expense and hassle of a traditional built-in system. (Black)..............P/N 11-18407 ..........$271.95

SEE OUR WEBSITE FOR COMPLETE LINE OF AITHRE PRODUCTS!

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
MOUNTAIN HIGH XCP SYSTEMS

The MH-XCP Constant Flow series is our most economical single and multi-pace, 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 Cartridges. The system is widely used by both pilots and medical personnel. The MH-3 Flowmeter comes with Cylinder (color of your choice), Regulator, Mountain High MH-3 or MH-4 Flowmeter, Oxymizer™ cannula, facemask, tote bag and cylinder 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 Face Mask. Choose the MH-3 Flowmeter for up to 10,000 ft. Each XCP System Includes: • Instructions • Cylinder with Valve, Gauge and carry case • Pressure reducing Regulator with self sealing outlet for each user. • MKH or MH4 Flow-Meter (Your choice when ordering) • Oxymizer (oxygen conserving) Cannula • Face Mask • Tote-Bag. Models include Full-Pack packed cylinder carry/strap-down case

MOUNTAIN HIGH EDS O2D2 OXYGEN SYSTEMS

The EDS-O2D2 Pulse Demand Oxygen Delivery System is the only single unit, portable, two-place oxygen system currently available for general aviation. A variety of options allow you, the pilot, to customize a system to your specific needs. The O2D2 kit comes with (2) standard cannulas, 2 face 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 to the outlets in the aircraft.

<table>
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<td>00EDS-0054-01</td>
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<td>13-03669</td>
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<tr>
<td>00EDS-0004-01</td>
<td>with CFFC-480 Silica cylinder and XCR-540 regulator with tote bag - 1 Place</td>
<td>13-03668</td>
<td>$1,035.00</td>
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<tr>
<td>00EDS-0004-02</td>
<td>with CFFC-480 carbon fiber cylinder, XCR-540 regulator with tote bag - 2 Place</td>
<td>13-03670</td>
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<td>00EDS-0062-00</td>
<td>with AL-647 Aluminum cylinder, FPR-540 regulator - 4 Place</td>
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<td>with AL-647 Aluminum cylinder, FPR-540 regulator - 4 Place</td>
<td>13-03716</td>
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MOUNTAIN HIGH AVIATOR STANDARD CANNULA

The MH-4 has two altitude flow scales. The left (compressed) scale is calibrated for the Oxymizer™ 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.

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<td>PS05</td>
<td>PS100-02</td>
<td>13-03926</td>
<td>$239.00</td>
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</table>

MOUNTAIN HIGH EDS O2D1 OXYGEN SYSTEMS

The EDS-O2D1 System enables the general aviation pilot to fly at pressure altitudes up to 25,000 feet with safety and comfort. The EDS-O2D1 digital Pulse- Demand™ system reduces Oxygen consumption dramatically. Different from the "standard" constant flow systems, the EDS-O2D1 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 tanks work load. The unit operates for up to 100 hours on two AA batteries. The EDS-O2D1 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 affordable under various oxygen systems.

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<th>Price</th>
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</thead>
<tbody>
<tr>
<td>00EDS-0084-01</td>
<td>with CFF-480 Silica cylinder and XCR-540 regulator with tote bag - 1 Place</td>
<td>13-02867</td>
<td>$1,959.00</td>
</tr>
<tr>
<td>00EDS-0054-01</td>
<td>with AL-180 Aluminum Cylinder and XCR-540 regulator with tote bag - 1 Place</td>
<td>13-03669</td>
<td>$1,063.00</td>
</tr>
<tr>
<td>00EDS-0004-01</td>
<td>with CFFC-480 Silica cylinder and XCR-540 regulator with tote bag - 1 Place</td>
<td>13-03668</td>
<td>$1,035.00</td>
</tr>
<tr>
<td>00EDS-0004-02</td>
<td>with CFFC-480 carbon fiber cylinder, XCR-540 regulator with tote bag - 2 Place</td>
<td>13-03670</td>
<td>$2,317.00</td>
</tr>
</tbody>
</table>

MOUNTAIN HIGH FLOWMETER MH-4

The MH-4 has two altitude flow scales. The left (compressed) scale is calibrated for the Oxymizer™ 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS05</td>
<td>PS05</td>
<td>13-03925</td>
<td>$139.99</td>
</tr>
</tbody>
</table>

MOUNTAIN HIGH ALPS FACE MASK

The ALPS FaceMask is outfitted with 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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPS-02</td>
<td>ALPS Face Mask</td>
<td>13-02134</td>
<td>$194.99</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PS05</td>
<td>PS05</td>
<td>13-03925</td>
<td>$139.99</td>
</tr>
</tbody>
</table>

NORAL OXYGEN CANNULA CARRIERS

See www.aircraftspruce.com for our full line of Noral Oxygen Cannula Carriers.
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 ........... $255.95

PILOT PACK - 4 PERSON OXYGEN PACK
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 05-14890 ........... $850.00

PLANE PACK - 6 PERSON OXYGEN PACK
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 ........... $2,612.00

PLANE PACK - 8 PERSON OXYGEN PACK
In the box: • 8 - A-5 Oxygen Flow Meter with Tubing • 2 - Comfort Microphone Mask with Premium Mic • 8 - Oxymizer Cannula for use with Flow Meters • 6 - Standard Face Mask - Certified to 25,000 Feet • 8 - ALL-IN-ONE Connector Kit • 8 - FLOWGLOW for use with A-5 Flow Meter • 4 - Oxygen Equipment Bag - PFI • 1 - Pulse Oximeter ...........P/N 05-14898 ........... $3,085.00

OXYGEN CHARGE FILL ADAPTER WITH DUST CAP
1/4 JIC/AN-4 to 9/16-18 UNF-2B aircraft connection. Includes dust cap/protective nipple with chain/lanyard. Shipped certified clean for immediate use........P/N 12-04870 ........... $128.85

OXYGEN CHARGE FILL ADAPTER 30° BEND
1/4 JIC/AN-4 “Male Flared Tube” connected by 1-inch tube with AN800-3 (3/8-24 UNF-2B) aircraft connection. Includes dust cap/protective nipple with chain/lanyard. Shipped certified clean for immediate use........P/N 12-04869 ........... $159.75

X3 SOLO PACK
Pilot tested and pilot approved! The X3 Demand Conserver is the best demand conserves in the aviation industry. The X3 Demand Conserver is the only fully mechanical demand conserves (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 ........... $1,250.00

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 conserves (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 ........... $1,668.00

OXYPACK1 - 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 • 2 - Two-Person Oxygen Pressure Regulator ...
P/N 05-14892 ........... $999.00

OXYPACK2 - 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 ...
P/N 05-14893 ........... $1,250.00

OXYPACK3 - 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 • 4 - 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 ........... $1,829.00

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 • 4 - 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 05-14896 ........... $1,829.00

OXYPACK1 - 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 - Two-Person Oxygen Pressure Regulator ...
P/N 05-14892 ........... $999.00

OXYPACK2 - 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 ...
P/N 05-14893 ........... $1,250.00

OXYPACK3 - 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 • 4 - 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 ........... $1,829.00

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 • 4 - 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 05-14896 ........... $1,829.00

X3 SOLO PACK
Pilot tested and pilot approved! The X3 Demand Conserver is the best demand conserves in the aviation industry. The X3 Demand Conserver is the only fully mechanical demand conserves (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 ........... $1,250.00

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 conserves (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 ........... $1,668.00

WWW.AIRCRAFTSPRUCE.COM
UNIVERSAL TOW BAR WITH CLEVIS HITCH

**CESSNA/BECH/ 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 .........$269.95

**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 .........$273.00

**GROUND SUPPORT TOW BARS**

<table>
<thead>
<tr>
<th>Description</th>
<th>P/N</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSAL TOW BAR WITH CLEVIS HITCH</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CESSNA</strong> - This two piece telescoping tow bar</td>
<td>13-01800</td>
<td>$83.75</td>
</tr>
<tr>
<td>fits all Cessnas with 5/8&quot; lugs on nosegear.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall length 42.5&quot;, collapsed 24&quot;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MOONEY</strong> - A simple &quot;T&quot; handle design for the</td>
<td>13-02000</td>
<td>$82.75</td>
</tr>
<tr>
<td>Mooney axle. Overall length 33.5&quot;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CHEROKEE</strong> - This one piece tow bar has a</td>
<td>13-01900</td>
<td>$81.95</td>
</tr>
<tr>
<td>retractable locking mechanism that gives a</td>
<td></td>
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<tr>
<td>positive lock when installed. Overall length 31&quot;</td>
<td></td>
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</tr>
<tr>
<td><strong>BEECHCRAFT</strong> - The compact design of this</td>
<td>13-01600</td>
<td>$78.75</td>
</tr>
<tr>
<td>tow bar makes it very popular among Beech</td>
<td></td>
<td></td>
</tr>
<tr>
<td>owners. Overall length 38&quot;, collapsed 21.5&quot;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ARROW</strong> - This offset &quot;T&quot; handle design fits</td>
<td>13-01700</td>
<td>$83.75</td>
</tr>
<tr>
<td>into the Arrow axle making it a simple and easy</td>
<td></td>
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<tr>
<td>design to use. Overall length 33&quot;.</td>
<td></td>
<td></td>
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<tr>
<td><strong>TWIN CESSNA</strong> - The extra length provides</td>
<td>13-01850</td>
<td>$85.95</td>
</tr>
<tr>
<td>extra nose clearance and leverage for Twin</td>
<td></td>
<td></td>
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<tr>
<td>Cessnas and remains very compact. Overall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>length 55&quot;, collapsed 34&quot;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TWIN PIPER</strong> - (HH-007) Piper Twin Comanche,</td>
<td>13-01778</td>
<td>$78.75</td>
</tr>
<tr>
<td>Apache, Aztec, and Navajo Towbar. Two section</td>
<td></td>
<td></td>
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<tr>
<td>until 28&quot; collapsed, 49-1/2&quot; overall length.</td>
<td></td>
<td></td>
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<tr>
<td><strong>COMANCHE</strong> - The same as our P/N HH-007 except</td>
<td>13-02100</td>
<td>$83.75</td>
</tr>
<tr>
<td>one piece construction. Overall length 33&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DELUXE CESSNA</strong> - The deluxe Cessna towbar is</td>
<td>13-01540</td>
<td>$96.75</td>
</tr>
<tr>
<td>very popular and designed for those who demand</td>
<td></td>
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<tr>
<td>the ultimate in convenience and durability.</td>
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<tr>
<td>Spring loaded forks allow easy one handed</td>
<td></td>
<td></td>
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<tr>
<td>engagement without getting on your hands and</td>
<td></td>
<td></td>
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<tr>
<td>knees. Length 45.5&quot; extended, 26&quot; collapsed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wt. 3.75 lbs. Ideal for Cessna RGs Including</td>
<td></td>
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<tr>
<td>210 series.</td>
<td></td>
<td></td>
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<tr>
<td><strong>DUTCHESS/PIPER</strong> - Fits Dutchess and Piper</td>
<td>13-02210</td>
<td>$96.75</td>
</tr>
<tr>
<td>nose gear axle. Telescoping design provides</td>
<td></td>
<td></td>
</tr>
<tr>
<td>extra nose gear clearance. Overall length 48&quot;,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>collapsed 28&quot;.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RV-A M-340-026</strong> - Two piece spring loaded</td>
<td>13-018476</td>
<td>$96.75</td>
</tr>
<tr>
<td>design. 26&quot; collapsible, 43&quot; overall. Code 7.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DELUXE PIPER</strong> - The deluxe Piper towbar offers</td>
<td>13-01550</td>
<td>$96.75</td>
</tr>
<tr>
<td>all the features of a standard Piper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>towbar plus the convenience of a two-piece</td>
<td></td>
<td></td>
</tr>
<tr>
<td>design. When extended, this model provides</td>
<td></td>
<td></td>
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<tr>
<td>additional propeller clearance and leverage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length: 42&quot; extended, 23&quot; collapsed. Wt. 3.5</td>
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<tr>
<td>lbs.</td>
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</tbody>
</table>

AIRCRAFT WINCH & MOUNTING KIT

**AIRCRAFT WINCH** - Floor mounting aircraft winch with hook cable to tail tie-down ring and press button operation. Easily moves aircraft up to 3,000 lbs. rolling weight on smooth, flat surfaces. If uphill, on gravel, or there is a large hangar lip, most aircraft will require the Heavy Duty variant. 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, P/N 13-01764 ..........$548.00

**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 ..............$564.00

**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 ............$79.95

WWW.AIRCRAFTSPRUCE.COM Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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 grip 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.

<table>
<thead>
<tr>
<th>TAIL WHEEL AIRCRAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>4-APIM Aircraft Products Tailwheel</td>
</tr>
<tr>
<td>4-ABI Alaskan Bushwheel 3400B</td>
</tr>
<tr>
<td>04M-XP Cessna XP Modification</td>
</tr>
<tr>
<td>4-TDGD Scott 3200 &amp; 3400/ABI 3200/3400</td>
</tr>
<tr>
<td>4-F24 Fairchild 24, Beech Staggar Wing</td>
</tr>
<tr>
<td>4-RV Vans RV3, RV4, RV6, RV8, RV9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NOSE WHEEL AIRCRAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>4-35 Beechcraft-Boeing, Debonair, Duchess, Duke &amp; Skipper</td>
</tr>
<tr>
<td>4-19/23B Beechcraft-Muskeetork Sport, Super, Sierra &amp; King Air</td>
</tr>
<tr>
<td>4-17/30 Bellanca-Viking Series</td>
</tr>
<tr>
<td>4-172 Cessna 150, 152, 172, 175, 177, 182, 210R, RV-4</td>
</tr>
<tr>
<td>4-206 Cessna 205, 206 &amp; 207</td>
</tr>
<tr>
<td>4-210 Cessna 172RG, 177RG, 182RG &amp; 210 Series</td>
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<tr>
<td>4-182-XL Cessna 182 (1996 and up) and T (2001 and up)</td>
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<tr>
<td>4-SR Cirrus SR 20 &amp; 22</td>
</tr>
<tr>
<td>4-AA Gulfstream American AA1 &amp; AA5</td>
</tr>
<tr>
<td>4-Lake Lake Amphibian</td>
</tr>
<tr>
<td>4-Moon Mooney Aircraft</td>
</tr>
<tr>
<td>4-24/30 Piper Comanche PA-24, PA-30 &amp; PA-39 also the Chero- kee Six axle w/pants if tabs above wheel are broken</td>
</tr>
<tr>
<td>4-22/28 Piper PA-20, PA-28 Series (Not PA-28R)</td>
</tr>
<tr>
<td>4-28R Piper PA-28R Series - Hand Pull for dog-leg style</td>
</tr>
<tr>
<td>4-34 Piper Seneca PA34 200/220/220T, and Aerostar 801P “handle extends to 78”</td>
</tr>
<tr>
<td>4-PA46 Piper Malibu &amp; Mirage - Vehicle Pull</td>
</tr>
<tr>
<td>4-28R, 4-PA46 Piper PA-28R, PA-32R, PA-46 Hand Pull Towbar, Malibu, Mirage, Meridiam and Saratoga Aircraft.</td>
</tr>
<tr>
<td>4-RVA Vans - RV6A, RV7A, RV8A, &amp; RV9A</td>
</tr>
<tr>
<td>4-LANCE Lance Towbar</td>
</tr>
<tr>
<td>4-DIAM Diamond DA20</td>
</tr>
<tr>
<td>4-DIAM Diamond DA40</td>
</tr>
<tr>
<td>4-DIAM Diamond DA42</td>
</tr>
<tr>
<td>4-RV10 Vans - RV10</td>
</tr>
<tr>
<td>4-Socata Socata Style Bogi Bar</td>
</tr>
<tr>
<td>4-Navinion Navion Aircraft</td>
</tr>
</tbody>
</table>

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 13-18547………$599.00
Ball Hitch…………………………P/N 13-18548………$495.00
Clevis Hitch………………………P/N 13-18722………$510.00
Piper Adapter - Qty 2 Required………………P/N 13-15488………$19.95

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. – Vehicle Pull 72" P/N 13-10085 $274.00
Ball Hitch (TR-34B)………………P/N 13-10086 $867.00
Clevis Hitch (TR-34C)…………….P/N 13-10087 $795.00
TWA-10 Scott Tail Wheel Adapter (2 pcs. req.) P/N 13-10089 $25.95

MODEL TR-53

Features a tow bar length of 80” to 94” (extended). Ext: 22 lbs., Max. aircraft Wt: 7,000 lbs. TH-33B Towbar w/Ring hitch………………P/N 13-03338 $765.00
TH-33B Towbar w/Ball hitch…………P/N 13-03339 $765.00
TH-33C Towbar w/Clevis hitch……..P/N 13-03340 $730.00

CUSTOM TOWBARS & OPTIONS FOR UNIVERSAL TOW BARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA-10</td>
<td>Scott Tail Wheel Adapter (2 pcs. req.)</td>
<td>13-10089</td>
<td>$25.95</td>
</tr>
<tr>
<td>T-MU2-10</td>
<td>Kit-Crank &amp; head assembly for converting TR-34 to TR-44</td>
<td>13-01890</td>
<td>$144.75</td>
</tr>
<tr>
<td>TWA-11</td>
<td>Tail Wheel Adapter for DGA-Staggerwing (2 pcs. req.)</td>
<td>13-1891</td>
<td>$27.50</td>
</tr>
<tr>
<td>T-4W</td>
<td>Wheel Set (Set of 2) for TR-34</td>
<td>13-1892</td>
<td>$149.85</td>
</tr>
<tr>
<td>T-375</td>
<td>Adapter .375” for Aerospatiale-Triunid, Tabago (2 pcs.)</td>
<td>13-1893</td>
<td>$19.95</td>
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<tr>
<td>T-475</td>
<td>Adapter .475” Outer Diameter (2 pcs. req.)</td>
<td>13-1894</td>
<td>$19.95</td>
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<td>T-625</td>
<td>Adapter .625” for Augusta 109 &amp; Others (2 pcs. req.)</td>
<td>13-1895</td>
<td>$27.75</td>
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<td>T-750</td>
<td>Adapter .750” for Commander 114, S-76 &amp; Other</td>
<td>13-1896</td>
<td>$19.95</td>
</tr>
</tbody>
</table>

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

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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
- Of Wingtips
- 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

**Description** | **Part No.** | **Price**
--- | --- | ---
Standard tail Dragger | 13-01510 | $249.00

BOGERT UNIVERSAL BIG BOGI TOWBAR
The 04M-BBU is unique because it can attach to virtually any aircraft. It has interchangeable “Feet” that can be matched to any aircraft. Each of the “Feet” typically adapts to several models or series of aircraft and several sizes can be carried right on the tow bar. This is perfect for FBO’s that deal with a variety of aircraft or aircraft owners that have more than one plane or shared hangars. “Interchangeable feet sold separately.”

**Description** | **Part No.** | **Price**
--- | --- | ---
Universal Big Bogi Bar | 12-03168 | $584.00
Jabiru Sport; Kit Fox | 11-11817 | $120.00
Cessna 150, 152, 172, 182, Vans, and many more | 12-03172 | $98.00
Cirrus SR20, 22 | 12-03174 | $152.00
PA-22, 38, 32, Cherokee Six | 12-03175 | $98.00
Aerostar 601, Bellanca, Mooney | 12-03176 | $98.00
Glastar, Legend Cub, Rockwell | 12-03177 | $98.00
Alaskan Bushwheel, Scott 3200, 3400 | 12-03178 | $98.00
Diamond DA-40 | 12-03179 | $98.00
Diamond DA-20 | 12-03180 | $120.00
Cessna 172RG, 177RG, 182RG, 210 | 12-03181 | $120.00
Beechcraft Bonanza, 35 | 12-03183 | $120.00

See [www.aircraftspruce.com](http://www.aircraftspruce.com) for complete application list

2” HITCH BALL RECEIVER
For the 12-03168 Universal Big Bogi Bar, With Clevis.................P/N 11-11517 ..........$169.00

BRACKETT MULTI-LINK TOW BARS
User benefits: All tow bars and heads are interchangeable with other popular tow bar systems such as tronair® warranty on all materials and workmanship money saving alternative to multiple tow bars.

**Brackett aircraft’s multi-link tow bar consists of tow bars that utilize changeable heads which allow you to tow a large variety of turbo prop and jet aircraft. The tygra line offers a standard multi-link system for aircraft with maximum tow weights of up to 125,000 pounds. All heads and tow bars are interchangeable with many widely used multi-head tow bar systems. You now have a high quality and competitive source for tow bars, changeable heads, and accessories.**

**Description** | **Part No.** | **Price**
--- | --- | ---
TY-TB125 Multi-Link Towbar | 13-04157 | $1,742.00
TY-TB75 Multi-Link Towbar | 13-04158 | $1,842.00
TY-TB-FTD Flat Tire Dolly T/B | 13-04159 | $2,485.00
King Air/Queen Air Head Only | 13-16150 | $732.00

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. Effortless ground handling is accomplished by its lightweight design and slow walking speed. The Nose-Dragger Dragger accepts 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 power 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. Please call 1-877-477-7823 for freight quote.

**Gas Powered, 6.5HP (up to 12,000 lbs)........P/N 13-05120........$2,085.00**

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Description</th>
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<td>Snow Chains</td>
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<td>Battery Charger - 24V</td>
<td>P/N 13-04934</td>
<td>$105.95</td>
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<tr>
<td>Mag-Light / Head Lamp</td>
<td>P/N 13-04935</td>
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**ELECTRIC DRAGGER® NOSE-DRAGGER**
This powerful 24-volt electric aircraft tug will fit and move any nose wheel airplane up to 4,000 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 ........$2,635.00

**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 the unit and 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 .........$2,635.00

TAILDRAGGER PICKER 1
The PICKER-1 is for tail-dragger/conventional gear aircraft and has 100% fully adjustable Picker-Pins on ((1)) side only. This towbar fits all Van’s RV tail draggers and J3-Cubs thru 450 Steamans. 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 ..........$395.00

BABY BUSH PICKER 1A
The Baby Bush PICKER-1A is for tail-dragger/conventional gear aircraft and has 100% fully adjustable Picker-Pins on ((1)) side only. This PICKER is intended for tail wheels up to 6-inch wide and up to 15-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 ..............$425.00

**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

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
**ROBOTOW 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.

**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. **Specifications**: – Maximum Gross Weight: Unknown, however it moves a 2100 lbs. – Minimum Operating: 16 inches – Minimum Diameter: 4 inches – Inside Diameter of Attatch Lug: 5/8” – Outside Diameter of Attatch Lug 3/4” – Length: 76” long – Tow Bar weight: 9 pounds …………..P/N 13-19797 …………..$340.00

**STEARMAN TOWBAR**

This towbar easily captures your tailwheel. Just push down on the bar and latch the pental 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 13-11618 …………..$460.00

**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 – Nylon Tie-Down Rope …………..P/N 01-01149 …………..$2,184.00

**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 leaf spring and cinches up tightly to pull and steer the aircraft backwards without pushing or pulling on any flight surfaces. Black ……………………..P/N 13-04681 …………..$19.95

**NOSE PICKER HEAVY DUTY AIRCRAFT TUG**

This little tugger has a tugging capacity 4,000 pounds. FREE wheels acrossed hangar floor. Record setting price and beat in its class! It’s a LOT of tugger for the money. • Variable Speed • Power-Off button • E-Stop safety palm button • 12 or 24 volt hook-up • (2) live drive sticky tires • Batteries not included (this actually SAVES you money). Fits two full size 12v deep cycle batteries (recommended) • Deep cycle preferred, but Auto style batteries can be used. Garden tractor or full size batteries can be used as well. Anything other than deep cycle batteries require your attention more often. • Battery tray overall size: 10 5/8 inch x 14 1/8 inch • (2) 12v battery chargers maintainers included …………..P/N 13-21166 …………..$2,963.00

**GOTOW DRILL-POWERED TOW BAR 36520**

Note: Powered drill is not included with tow bar. Power is to show representation of wireless power drill placement. • Use a cordless drill to move your airplane! • Works with most Cessna and Cirrus Aircraft without additional adapters. • Easy Steering, no need to lift or slide the tow unit • Does not cause abrasion to airplane’s tire • Uses body weight for down force resulting in excellent traction; No awkward arm strain. • Adjustable height and width to accommodate different airplanes • Flat-free tire won’t mar up your hanger floor and never needs air. • High-Quality welded aluminum construction for strength and ease of handling. • Adjust to fit most cordless drills regardless of brand. **Weight**: 28lbs(12.7kg) • Size: 39in H x 17in W x 69in L (99cm H x 44cm W x 176cm L) …………..P/N 13-24195 …………..$1,965.00
**REDLINE / AERO TECH TOW BARS**

**REDLINE SIDEWINDER POWER DRIVER**

*Note: for 220v, the 220v charging accessory will need to be purchased separately. Please see the "Accessories" tab for part number 13-10436.*

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. The Sidewinder comes with a battery and 110V charger. Please specify aircraft model when placing an order. Carrying Case is sold separately.

**Aircraft Make** | **Model Eligibility** | **Part No.** | **Price**
--- | --- | --- | ---
Beechcraft | T-34 | 13-06838 | $2,050.00
| 177 RG | 13-06855 | $2,050.00
| S.E Cessna 2 | 172 RG, 182 RG, 210 - Includes 15" Extension Tube | 13-23666 | $2,190.00
| 310, 340 | 310, 340 | 13-06857 | $2,050.00
| Twin Cessna 2 | 310R, 414, 421 - Includes 15" Extension Tube | 13-23667 | $2,190.00
| Cirrus | SR-20, SR-22, Vision Jet | All Cirrus - Includes 15" Extension Tube | 13-06862 | $2,475.00
| Diamond | DA-42 | DA-42 - Includes 15" Extension Tube | 13-22200 | $2,191.00
| EC-01 | All Eclipse - Includes 15" Extension Tube | 13-23672 | $2,190.00
| Mooney | Mooney | All Mooney - Includes 15" Extension Tube | 13-06860 | $2,190.00
| Piper | Saratoga, Arrow, Lance | Saratoga, Arrow, Lance | 13-06859 | $2,050.00
| Arrow and Lance | Arrow and Lance | 13-18703 | $2,050.00
| PI-01 | Malibu, Matrix, Mirage - Includes 15" Extension Tube | 13-23668 | $2,190.00
| PI-01S | Meridian - Includes 30" Extension Tube | 13-23669 | $2,190.00
| PI-02 | Piper with DLX Jet Prop Conversion - Includes 30" Extension Tube | 13-23670 | $2,190.00

**REDLINE ACCESSORIES**

Sidewinder Carry Bag…………………………………………………………………………………………………………………………..$81.75
Sidewinder Replacement Battery………………………………………………………………………………………………………………...$232.95

**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

ST-1 Vehicle Adapter…………………………………………………………………………………………………………………………...P/N 13-04066 | $64.75

**REDLINE BE-4 TOWBARS**

2-piece design for hand or powered use. Extends to 61.5”, collapses to 33” and weighs 5 pounds. For attachment to a golf cart, tractor or other powered vehicle, please use the ST-1 Vehicle Adaptor. Made in the USA using 4130 Chromoly material.

**Application** | **Part No.** | **Price**
--- | --- | ---
BE-4 Eclipse - Fits All | 13-06852 | $435.00
ST-1 Vehicle Adapter | 13-04066 | $64.75

**REDLINE BE-3 TOWBARS**

2-piece design for hand or powered use. Extends to 43.5”, collapses to 24.5” and weighs 4 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.

**Application** | **Part No.** | **Price**
--- | --- | ---
BE-3 Beechcraft - Fits Bonanza, Baron, Travel Air, T-34 | 13-06841 | $325.00

**REDLINE UL TOWBARS**

Very light weight, 2-piece design for hand towing only. Extends to 43.5” and stows to 25.5” and weighs 3 pounds 4 ounces. Made in the USA using 4130 Chromoly material.

**Application** | **Part No.** | **Price**
--- | --- | ---
UL - Beechcraft - Fits Bonanza, Baron, Travel Air, T-34 | 13-01914 | $259.95
UL - Piper - Fits Arrow, Lance, Saratoga (RG) | 13-01915 | $260.95

**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

**Price**

PS

**AERO TECH TOW HITCH ASSEMBLIES**

**1 3/4” TOW HITCH ASSEMBLY - (SINGLE HITCH)**

Tow Hitch Assembly - Single for Piper. Fits tail wheel leaf Springs 1.75” wide.
P/N 13-23399 ……..$1,495.00

**1 3/4” TOW HITCH ASSEMBLY - (3 HITCH)**

Tow Hitch Assembly - (3 Hitch) for Piper. Fits tail wheel leaf Springs 1.75” wide.
P/N 13-23400 ……..$1,950.00

**1 1/2” TOW HITCH ASSEMBLY - (3 HITCH)**

Tow Hitch Assembly - (3 Hitch) for Piper. Fits tail wheel leaf Springs 1.5” wide.
P/N 13-23403 ……..$1,950.00

**1 1/2” TOW HITCH ASSEMBLY - (5 HITCH)**

Tow Hitch Assembly - (5 Hitch) for Piper. Fits tail wheel leaf Springs 1.5” wide.
P/N 13-23404 ……..$2,495.00

**1 3/4” TOW HITCH ASSEMBLY - (5 HITCH)**

Tow Hitch Assembly - (5 Hitch) for Piper. Fits tail wheel leaf Springs 1.75” wide.
P/N 13-23401 ……..$2,495.00

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
The TowFLEXX® 2-Series light aircraft tug is designed to make your pre-and post flight experience much more enjoyable, easier, quicker and safer. Say goodbye to sweating, pulling, pushing and using your own brawn to move the aircraft — you now have a smart solution that makes moving your plane simple and efficient. Revolutionary design, providing many advantages, and saves your back.

Small, versatile, powerful, and reliable. Applicable for most light single engine and twin-engine aircraft up to 8,800 lbs (4t) MOTW.

The TowFLEXX® towbarless electric hand-guided aircraft tug, is a unique, patented, versatile, adjustable and simple to use light airplane tow system that saves valuable time and allows aircraft owners, pilots, ground crews and hangar operators to maneuver airplanes in and out of hangars with ease.

Features:
- Ergonomic Height Adjustment • Comfortable Lever for easy Coupling and De-Coupling • Easy and simple Steering • Forward and Reverse • Adjustable Speed Control • Smooth Acceleration • Universal Adapter for a wide Range of Aircraft • High Capacity Battery Pack with long Service Life • Extended Charging Cycle Time • Maintenance Free • Environmentally friendly • No Exhaust • No Noise • Silent • Easy to operate • Weatherproof

Benefits:
- Universal & Adaptable
  - Every TowFLEXX® 2-Series is supplied with the universal main u-fork coupling adapter, incl. a set of sliding standard adapters for easy aircraft docking.
  - Easy adaptable with quick lock pins. No tools required. The system provides a wide variety of different adjustment options.
- Adjustable
  - The main u-fork coupling adapter can be height adjusted to fit specific aircraft characteristics. The angle can be changed with ease with quick lock pins. The bracket also includes a provision for a ball-hitch attachment allowing to move trailers.
- Flexible & Convenient
  - The main u-fork coupling adapter is flexible and connected to the tug frame with a swivel joint that allows the adapter to rotate. A comfortable lever allows the operator to open and to lock the main u-fork coupling adapter. The steering handle is height adjustable for best ergonomics and to fit the operator’s physical height and figure.

Easy to Operate & Comfortable
- The standard handle provides a solid grip and the operator is firmly in control. Adjustable speed control with forward and reverse selector switch. Smooth acceleration technology eliminates the twitchy instability found in gas powered aircraft tow clutching systems. The tug is also available with the optional multi-functional three-axis tiller control handle for additional convenience.

Features & Quality Unmatched by Others
- Every TowFLEXX® 2-Series is equipped with LED lighting for easier operation at night or inside dark hangars. This tug is designed and manufactured like no other. Solid, rugged, powerful and built to last.

Battery & Electronics
- Every TowFLEXX® 2-Series is equipped with a top-quality long-lasting battery set. The rechargeable 24V 33Ah maintenance free lead-gel battery pack is designed for approximately 3 hours part time operation (fully charged) including short-circuit protection. Can be easily removed from the tug and also to be used as ground power supply for the aircraft.
- Advanced timer circuit battery charger for uninterrupted service and continuous operation incl. auto-shutdown function.

P/N 13-18771 ..... $3,395.00

TOWFLEXX 2-SERIES LIGHT AIRCRAFT TUG

2 LIGHT AIRCRAFT ADAPTERS
- Diamond DA42 \...
- P/N 13-20669 \...

Diamond DA40 \...
- P/N 13-20670 \...

Beech Bonanza B33 to B36 \...
- P/N 13-20671 \...

Socata TB20 and TB21 \...
- P/N 13-20672 \...

P/N 13-18771 ..... $2,595.00

TOWFLEXX ACCESSORIES

TOWFLEXX THREE-AXIS TILLER CONTROL HANDLE Three-Axis Tiller Control Handle
- P/N 13-20673 \...

$495.00

TOWFLEXX HEAVY DUTY ALL TERRAIN TIRES Heavy Duty All Terrain Tires
- P/N 13-20675 \...

$242.00

TOWFLEXX SNOW CHAINS Snow Chains \...
- P/N 13-20676 \...

$290.00

Small, powerful, and reliable. Especially designed for Robinson Helicopters (R22, R44, and R66).
13-19496: TOWFLEXX Universal Adapter Required information: Aircraft Make, Model & Serial No. Attention: Adapter required / sold separately

Electrical Motor
- Powerful high-torque rotary drive 24V 500W DC effective power electric motor resourcefully applied.
- Allows noiseless silent maneuvering and movement of Robinson helicopter rotary aircraft up to max 8,800 lbs (4t) quickly and safely in tight areas. Environmentally friendly - no exhaust.

Easy Handling
- Ergonomic height adjustment mechanism of the control handle, allowing fast adaptation matching the operators height for user comfort.
- Easy and simple steering by hand, via raising and guiding into the steering direction. Operation is a breeze because of the forward and reverse acceleration rocker switch mechanism with adjustable speed control.
- Universal adapter (fit’s Robinson Helicopters) for quick tool-free attachment, fast and simple guidance.

Ergonomic Multifunctional Three-Axis Handle
- In basic configuration the tug is equipped with the standard handlebar control.

Removable Battery Box
- The rechargeable 24V 33Ah maintenance free lead-gel battery pack is designed for approx. 3 hours part time operation (fully charged) including short-circuit protection. Can be easily removed from the tug and also to be used as ground power supply for the aircraft.

Battery Charger
- Advanced timer circuit battery charger for uninterrupted service and continuous operation incl. auto-shutdown function.

P/N 13-18771 ..... $3,395.00

TOWFLEXX SM2.2 8800 LB HELI 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 Chargers/ Maintainer • Also available with built-in 24V Auxiliary Power Plug (APU) & Power Cord

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<tr>
<td>Standard Model (No APU) Up to 15,000 lbs.</td>
<td>13-05252</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>$13,565.00</td>
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AIRCRAFT TUGS

Engineered for an 8,000 pound aircraft. 95% Assembled in sturdy wood crate (Handle is off)

With “ONLY” a push of a button this industry Dominating LIFT MONSTER Tug Will do the following:
- Automatically and Fully load the aircraft for you
- Automatically lift aircraft wheel off the ground
- Automatically lower the tail of aircraft for clearance of hangar doors
- Automatically un-load the aircraft for you
- Effortless steering
- Patent Pending

Works with:
- Van’s RV-A Series/ Nose Wheels
- Van’s RV Series Tail Wheels
- All Piston Cirrus Aircraft
- Diamond Aircraft
- Grumman Nose Wheels
- With or without wheel pants ... P/N 13-24258 ...... $5,288.00

AIRCRAFT TUGS LIFT MONSTER SD-X

Aircraft up to 8,000 pounds Intent: Lift wheels vertical “12-inches” Satisfies Tail & Nose Wheels 95% Assembled in sturdy wood crate (Handle is off)

Push a button and do this:
- Automatically and Fully load the aircraft for you
- Automatically lift aircraft wheel 12-inches off the ground
- Automatically lower the tail of aircraft for clearance of hangar doors
- Automatically un-load the aircraft for you
- Effortless steering
- Patent Pending

Works with:
- Van’s RV-A Series/ Nose Wheels
- Van’s RV Series Tail Wheels
- All Piston Cirrus Aircraft
- Diamond Aircraft
- Grumman Nose Wheels
- With or without wheel pants ... P/N 13-24260 ...... $5,485.00

WWW.AIRCRAFTSPRUCE.COM
Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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, and a 6HP 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. Finally, its’ pinpoint handling makes this unit a great choice. All of these features simply make this aircraft tug the best in the industry! 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 ........$4,285.00

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 then 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 6HP 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. 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 ........$4,395.00

AIRTUG® 10-H 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. 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 13-07288 ........$5,385.00

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 hookup 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 by hand to the aircraft and then winch the tow-bar / 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. “Return to Brake” feature prevents any unintentional movement of the plane when the thumb throttle is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Its’ pinpoint handling allows the operator to pivot as tight as desired as a result of the differential transmission. All of these features simply make this quiet, aircraft tug a good value in the industry! P/N 13-21612 ..........$4,395.00

AIRTUG® NFE-4 ELECTRIC FOR CIRRUS

Moves the CIRRUS Aircraft and other casting 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 is being a no-nose-wheel or non-cowling aircraft. Simply attach the small towbar by hand to the aircraft and then winch the tow-bar / nose-wheel onto the raised platform for total control by the tug. Much easier to hookup and control the aircraft than a single wheel tug that is not able to lift the nose-wheel off the ground. 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: Electric • Engine: Four Stroke 10-HP or greater, electric or recoil start • Tow Weight: Up to 16,000 lbs. • Turning Radius: 360 Degree 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 ........$5,495.00

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 utilizing a Hydrostatic Transmission, 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 of seeing under the fuselage at night. Features: • Loading System: Winch Strap/Strut Strap with Accessories • Parts Warranty: 1 Year • Engine: Heavy Duty 3HP Permanent Magnet Motor • Tow Weight: Up to 16,000 lbs. • Turning Radius: 360 Degree 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 Tires option..............P/N 13-07288 ........$6,265.00

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. Features: • Loading System: Hydraulic Lift Shoe with 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 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 Tires.................P/N 13-07287 ........$6,045.00

AIRTUGS® ADDITIONAL ADAPTERS

Moves most nose-fairing aircraft including the Diamond and other aircraft weighing less than 4,000 lbs. Easy to Use and Economical with pin point handling allowing the operator to pivot as tight as desired as a result of the transmission Differential. 24 Volt Electric motor so no need to worry about gas going bad. Twist grip for infinite speed control forward and reverse with no gears to shift and no jerky clutching system. Reduces repair cost from accidents that result from moving aircraft while not having good control and good visibility and knowledgeable help. Assemblies in minutes. Powder coated Frame & Handle. Dimensions: 10” long x 36” wide x 42” tall. 1 Year Warranty. 30 Day Money Back Guarantee! P/N 13-14974 .......$3,845.00

AIRTUG® NFE-4 CIRRUS ADAPTOR

Airtug NFE-4 Cirrus Adapter 13-14975 $285.00
Airtug NFE-4 Diamond Da20 Adapter 13-14976 $285.00
Airtug NFE-4 Diamond Da40 Adapter 13-14977 $285.00
Airtug NFE Adapter for Non-Cowling Aircraft 13-21625 $248.55

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
**TIE-DOWNS**

**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 harder ground. 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 ... $137.75

**TIE-DOWN EYE BOLT**

For non-structural applications. The 7/16” dia. threaded shaft 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 ... $10.95

**AIRCRAFT TIE-DOWNS**

These Aircraft Tie-Downs offer strong, durable, and easy to use tie downs for any weather condition. These tie-downs are 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. 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 ... $99.85

**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

P/N 13-12672 ... $104.75

**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.

- 6’ Red Single Strap .... P/N 13-18502 ... $33.95
- 6’ Red Double Strap .... P/N 13-18501 ... $49.95
- 7’ Black Single Strap ... P/N 13-20707 ... $35.95
- 7’ Black Double Strap ... P/N 13-20706 ... $64.98
- 15’ Red Single Strap ... P/N 13-20709 ... $23.50
- 15’ Red Double Strap ... P/N 13-20708 ... $78.75

**TIE DOWN STRAPS**

**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 ... $243.95

**HEAVY STRAP KIT** - 5000 lb. universal, 14 foot tie-down straps with 5000 lb. spring clip climbing type carabiners and 5000 lb. ground stakes.

P/N 13-11230 ... $300.95

**16” CORSCREW 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 coating 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 dependent on soil types)
- Installs in most soils in minutes
- Lightweight, individual weight of 1 lb 13 oz. or 5 lbs. 7 oz. per kit
- This kit includes: three 16” corcscrew tie-down straps, 3/8” nylon tie down rope, and one tiedown bag - all complete with a manual including installation instructions.

P/N 13-09652 ... $68.75

**PIPER/BEECH TIE-DOWN RINGS**

- Gold Titan Nitride Coated Stainless Safe to 230 mph Wind. Also 45° Angled Aircraft Aluminum Tie-Down Rings. With Stainless Strike Plate: 6 X Stronger than OEM. Also offered in Nicked Plated Aircraft Aluminum (+Great for Fueling Ground). Nickel Plated with White Powder Coat (190+ MPH Wind Speeds), Parts Look Streamline and Attractive. FAA-PMA Certified - Directly Interchangeable with all OEM Parts. Sold as Pair.

**PIPER/BEECH SKID & STRIKE PLATES**


**HOOK-N-PULL TIE DOWNS**

Hook-N-Pull Tie downs feature closed end “s” hooks made from high quality steel with heavy plating, and tie down bars are made from high grade aluminum, hardened for strength and ball burnished and anodized. Furnished with 3/8” diameter nylon rope.

- High wing......P/N 13-00448 ... $26.00
- Low wing or tail......P/N 13-00449 ... $24.25

**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 3000lbs 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 ... $154.90

**AEROSPOILER KIT; AEROSPOILER EXTENSION KIT**

Kit contains 10 cup/receiver assemblies and 8 30°X5” inch blade assemblies. Each kit contains 20’ of wing coverage. The AeroSpoiler will reduce wind in the cockpit area. Extension Kit is 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

Prices Subject to Change Without Notice - Valid as of June 1, 2023.

WWW.AIRCRAFTSPRUCE.COM
**“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 5600 lb. combined capacity. The last tie down you will ever have to buy - 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. Low profile will not puncture tires, 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 hammer doubles as removal tool! The "Claw" includes: Bag that is easy to carry and store that contains: 3 Anchors; 9 spikes; 1 hammer; 25-ft rope ‘Wt: 8 lbs.’

P/N 13-02448 .................................. $114.75

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**NEILSON AIRCRAFT TIE-DOWNS**

- Three 15” welded (not bent) steel anchors with sharp tips for easy installation • Three 15’ nylon rope packed: Cordura, Int’l. Orange, 8’x15’ case ‘Wt: 4 lbs’

P/N 13-00663 ................................. $138.95

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**NYLON TIE-DOWN ROPE**

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

3/8” (4000 lb. test) .................................. P/N 13-05400 .................. $0.45 /ft
1/2” (6250 lb. test) ................................. P/N 13-05500 .................. $0.85 /ft

15% Discount on 100 ft.

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**GENUINE VELCRO**

5819 Genuine Velcro Two 4 1/2’ pressure sensitive hook and loop strips.

P/N 13-06404 ................................. $3.35

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**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 threaded sleeve and welded stainless steel ring with heat treated aircraft alloy stud.

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**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 hook. Military Tough: The Toughman™ Rope Clamp has undergone rigorous testing by the US Army Soldier Systems Center, “Natick” test labs and has been 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 13-06142 ................ $11.75

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**BIG SCREW EZ TIE DOWN**

Big-Screw EZ Tie-Down is an innovative tie down system combining a lightweight 18” long cast aluminum ground screw, and a custom aviation designed attachment strap. The 18-inch long cast aluminum screw provides stronger ground holding 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 angled-in tie-downs. Large 1 ¼” Wide screw provides 80 Square inches 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 ..................................... $189.00
Big Screw Straps (3 each 9 Ft.) .................. P/N 13-21309 ................ $69.95

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**SLIDEDOWN AIRCRAFT TIE DOWN**

Made as a "one size fits most aircraft", the SlideDown is easily adjustable to reach most 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” Kermantle Braided Rope available in a variety of colors, Vinyl Coated Hooks, and a maximum Reach: Wings 100”, Tail 54”. Sold in sets of 3.

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**AIRCRAFT TIE DOWNS**

Three 17” x 3/8” plated steel screw stakes. Three 10’ x 3/8” polypropylene ropes. Cloth draw string bag.

P/N 13-06634 ................................. $43.50

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**E-Z LOCK TIE DOWNS**

E-Z 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 ................................. $17.50

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**SLIDEDOWN AIRCRAFT TIE DOWN**

Made as a "one size fits most aircraft", the SlideDown is easily adjustable to reach most 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” Kermantle Braided Rope available in a variety of colors, Vinyl Coated Hooks, and a maximum Reach: Wings 100”, Tail 54”. Sold in sets of 3.

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**AIRFOIL SHAPE TIE-DOWNS FOR ALL VANS AIRCRAFT**

Airfoil Shape Tie-Downs for All Vans Aircraft is sold as a paid, using 3/8-16 thread stud and chain or rope without marring the struts.

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**CARAVAN TAIL TIEDOWN HANDLE**

Airforms P/N AF2612035-1, Tail tie down handle, rear. Direct replacement for Cessna P/N 2612035-1. 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 tail stand • Comes primed and ready for installation • FAA PMA Approved • All S/N aircraft, Cessna models 208 and 208B.

P/N 13-052292 ................................. $99.95

P/N 13-14808 Black $89.75
P/N 13-14801 Black/White $99.75

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**RANS TIE DOWN SHACKLE**

This stainless steel tie-down shackle will fit any 1 inch wide attach point, but is made special for most RANS aircraft that have RANS aluminum lift struts. The shackle is designed to accept chain or rope without marring the struts.

P/N 13-10435 .................................. $9.95

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**CAUTION**

Prices Subject to Change Without Notice - Valid as of June 1, 2023.

WWW.AIRCRAFTSPRUCE.COM
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 black rubber sleeves 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.
P/N 13-05752 ............$33.75

MOLDED WHEEL CHOCKS
The "Perfect" lightweight orange urethane aircraft wheel chocks. Oil and chemical resistant as well as connected by a 22-inch nylon rope. Concave design that fits into tires. Larger sizes available.

HANDY CHOCKS
One pair of 6 oz. lightweight wheel red or yellow chocks with adjustable cords ensure a snug fit for a wide range of aircraft. Easy storage and portability. Note: 1 set per Package
Red........................P/N 13-06405 ...........$36.50
Yellow......................P/N 13-06406 ...........$36.50

SAFE T CHOCKS
"Safe T Chock Line" pull rope is a new patented product invented to prevent injuries while chocking 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 chock block. This type of chock 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.

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 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.

Description Part Number Price
Safe T Chock Line 12" Set 05-12011 $29.95
Safe T Chock Line 24" Set 05-12012 $34.75
Safe T Chock Line 36" Set 05-12013 $39.95
Safe T Chock Line 48" Set 05-12014 $43.85

LIGHTWEIGHT ROPE CHOCKS
Rope Chocks’ patent-pending design prevents vehicles, trailers, aircraft, cargo and military aircraft. Easy storage and handling • Safe and non-marking construction. Won’t damage aircraft interiors or exteriors like block-style chocks • No rattling around while on ground or in the air.
Set of Two with Mesh Bag P/N 13-23973 ............$74.85
Single Chock P/N 13-23972 ..................$39.75

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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sm. Bare Alum.</td>
<td>13-01120-A</td>
<td>$26.50</td>
</tr>
<tr>
<td>Sm. Blue</td>
<td>13-01120-B</td>
<td>$26.50</td>
</tr>
<tr>
<td>Sm. Red</td>
<td>13-01120-R</td>
<td>$26.50</td>
</tr>
<tr>
<td>Sm. Yellow</td>
<td>13-01120-Y</td>
<td>$26.50</td>
</tr>
<tr>
<td>Med. Bare Alum.</td>
<td>13-01130-A</td>
<td>$28.65</td>
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<tr>
<td>Med. Yellow</td>
<td>13-01130-Y</td>
<td>$28.65</td>
</tr>
<tr>
<td>Med. Blue</td>
<td>13-01130-B</td>
<td>$28.65</td>
</tr>
</tbody>
</table>

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 R22s.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Wheel Chocks - 2.5&quot; angle and 10&quot; wide. Available in Black Powdercoat, Orange Powdercoat, and Grey Powdercoat - 24oz per pair. 48 oz for two pairs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WOOD WHEEL CHOCKS
These chocks feature heavy duty wood construction and are finished in bright safety yellow. Connected with 18" braided nylon rope.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Aluminum - 1 Set</td>
<td>13-13118</td>
<td>$67.95</td>
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<tr>
<td>Bare Aluminum - 2 Sets</td>
<td>13-13120</td>
<td>$105.75</td>
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<tr>
<td>Powdercoat - 1 Set</td>
<td>13-13119</td>
<td>$119.75</td>
</tr>
<tr>
<td>Powdercoat - 2 Sets</td>
<td>13-13089</td>
<td>$179.95</td>
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<tr>
<td>Blue Bare Aluminum - 1 Set</td>
<td>13-13121</td>
<td>$84.75</td>
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<tr>
<td>Blue Bare Aluminum - 2 Sets</td>
<td>13-13123</td>
<td>$126.75</td>
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<tr>
<td>Powdercoat - 1 Set</td>
<td>13-13122</td>
<td>$150.95</td>
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<tr>
<td>Powdercoat - 2 Sets</td>
<td>13-13124</td>
<td>$186.75</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>Bare Aluminum</td>
<td>13-04298</td>
<td>$46.50</td>
</tr>
<tr>
<td>Blue Bare Aluminum</td>
<td>13-01167</td>
<td>$78.75</td>
</tr>
<tr>
<td>Powdercoat</td>
<td>13-01166</td>
<td>$62.75</td>
</tr>
</tbody>
</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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Aluminum</td>
<td>13-04298</td>
<td>$18.65</td>
</tr>
<tr>
<td>Powdercoat</td>
<td>13-11169</td>
<td>$53.95</td>
</tr>
</tbody>
</table>

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WINDSOCKS

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 is included with each windsock to attach it to the frame. Windsocks are available in high visibility white, orange or alternate orange and white stripes. Fully extended at 20 MPH or 15 Knots.

<table>
<thead>
<tr>
<th>Throat Dia.</th>
<th>Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8’ x 30 inches</td>
<td>13-04147</td>
<td>$46.50</td>
<td></td>
</tr>
<tr>
<td>10’ x 36 inches</td>
<td>13-02026</td>
<td>$49.95</td>
<td></td>
</tr>
<tr>
<td>13’ x 55 inches</td>
<td>13-04145</td>
<td>$63.75</td>
<td></td>
</tr>
<tr>
<td>18’ x 5 feet</td>
<td>13-20200</td>
<td>$73.75</td>
<td></td>
</tr>
<tr>
<td>18’ x 8 feet</td>
<td>13-20202</td>
<td>$87.90</td>
<td></td>
</tr>
<tr>
<td>24’ x 8 feet</td>
<td>13-20204</td>
<td>$109.75</td>
<td></td>
</tr>
<tr>
<td>28’ x 7 feet</td>
<td>13-20205</td>
<td>$115.75</td>
<td></td>
</tr>
<tr>
<td>36’ x 10 feet</td>
<td>13-20206</td>
<td>$197.95</td>
<td></td>
</tr>
</tbody>
</table>

INTENSE WHITE

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-inch size pipe or conduit. Order windsocks separately.

<table>
<thead>
<tr>
<th>Throat Dia.</th>
<th>Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>18’ x 5 feet</td>
<td>13-20210</td>
<td>$73.80</td>
<td></td>
</tr>
<tr>
<td>18’ x 8 feet</td>
<td>13-20212</td>
<td>$108.75</td>
<td></td>
</tr>
<tr>
<td>24’ x 8 feet</td>
<td>13-20214</td>
<td>$107.80</td>
<td></td>
</tr>
</tbody>
</table>

WHITE/ORANGE STRIPE

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-inch size pipe or conduit. Order windsocks separately.

<table>
<thead>
<tr>
<th>Throat Dia.</th>
<th>Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>18’ x 5 feet</td>
<td>13-20220</td>
<td>$91.75</td>
<td></td>
</tr>
<tr>
<td>18’ x 8 feet</td>
<td>13-20222</td>
<td>$104.85</td>
<td></td>
</tr>
<tr>
<td>24’ x 8 feet</td>
<td>13-20224</td>
<td>$135.75</td>
<td></td>
</tr>
<tr>
<td>28’ x 7 feet</td>
<td>13-20225</td>
<td>$138.75</td>
<td></td>
</tr>
<tr>
<td>36’ x 10 feet</td>
<td>13-20226</td>
<td>$215.95</td>
<td></td>
</tr>
<tr>
<td>36’ x 12 feet</td>
<td>13-20228</td>
<td>$249.95</td>
<td></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-inch size pipe or conduit. Order windsocks separately.

<table>
<thead>
<tr>
<th>Throat Dia.</th>
<th>Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8’ x 36 inches</td>
<td>13-04314</td>
<td>$51.75</td>
<td></td>
</tr>
<tr>
<td>10’ x 72 inches</td>
<td>13-04315</td>
<td>$69.75</td>
<td></td>
</tr>
<tr>
<td>13’ x 96 inches</td>
<td>13-04316</td>
<td>$76.75</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Throat Dia.</th>
<th>Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>18’ x 8 feet</td>
<td>13-20244</td>
<td>$128.75</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Throat Dia.</th>
<th>Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6’ x 18</td>
<td>13-04306</td>
<td>$39.50</td>
<td></td>
</tr>
<tr>
<td>9’ x 30</td>
<td>13-04307</td>
<td>$46.70</td>
<td></td>
</tr>
<tr>
<td>10’ x 36</td>
<td>13-04308</td>
<td>$56.75</td>
<td></td>
</tr>
<tr>
<td>12’ x 48</td>
<td>13-04309</td>
<td>$63.85</td>
<td></td>
</tr>
</tbody>
</table>

MINIATURE 15” WINDSOCK

For home, office, hangar or workshop. The 15” long wind cone of Flame-Orange sailcloth material swivels on 23” high steel shaft. Wind directionals are cast aluminum with flat black finish. Furnished with mounting hardware and instructions. Replacement Sock...........P/N 13-03748..............$14.50

NYLON WINDSOCKS

These socks are wind tunnel tested and designed for conditions in which safety and wind direction are of great 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Throat Diameter</th>
<th>Length</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-20040</td>
<td>10”</td>
<td>36”</td>
<td>$48.50</td>
</tr>
<tr>
<td>13-20045</td>
<td>18”</td>
<td>48”</td>
<td>$69.75</td>
</tr>
<tr>
<td>13-20060</td>
<td>36”</td>
<td>144”</td>
<td>$235.95</td>
</tr>
<tr>
<td>13-20050</td>
<td>18”</td>
<td>60”</td>
<td>$73.75</td>
</tr>
</tbody>
</table>

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 repellency. Ultra-violet dyed, with Nylon Web support and brass grommets. Color: Colorfast International Orange. Estimated 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>$39.50</td>
</tr>
<tr>
<td>9 x 30</td>
<td>13-04307</td>
<td>$56.75</td>
</tr>
<tr>
<td>10 x 36</td>
<td>13-04308</td>
<td>$63.85</td>
</tr>
<tr>
<td>12 x 48</td>
<td>13-04309</td>
<td>$68.75</td>
</tr>
</tbody>
</table>

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>13-04310</td>
<td>$44.90</td>
</tr>
<tr>
<td>9 x 30</td>
<td>13-04311</td>
<td>$50.50</td>
</tr>
<tr>
<td>10 x 36</td>
<td>13-04312</td>
<td>$63.85</td>
</tr>
<tr>
<td>13 x 48</td>
<td>13-04313</td>
<td>$74.75</td>
</tr>
<tr>
<td>18 x 60</td>
<td>13-04314</td>
<td>$78.75</td>
</tr>
<tr>
<td>20 x 60</td>
<td>13-04315</td>
<td>$86.75</td>
</tr>
<tr>
<td>36 x 144</td>
<td>13-04320</td>
<td>$286.95</td>
</tr>
</tbody>
</table>

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>Size</th>
<th>Length</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13” Eurosock x 55”</td>
<td>P/N 05-05234</td>
<td>$51.75</td>
<td></td>
</tr>
<tr>
<td>18” Eurosock x 71”</td>
<td>P/N 05-05235</td>
<td>$72.75</td>
<td></td>
</tr>
</tbody>
</table>

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**WINDSOCKS**

**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 never 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” x 15”</td>
<td>13-06388</td>
<td>$20.99</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>6” x 24”</td>
<td>13-06387</td>
<td>$24.50</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>8” x 36”</td>
<td>13-06386</td>
<td>$32.85</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>10” x 36”</td>
<td>13-06389</td>
<td>$39.90</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>13” x 54”</td>
<td>13-06465</td>
<td>$47.85</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>18” x 48”</td>
<td>13-22400</td>
<td>$51.75</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>18” x 60”</td>
<td>13-06466</td>
<td>$55.75</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>18” x 72”</td>
<td>13-06467</td>
<td>$64.75</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>18” x 96”</td>
<td>13-06468</td>
<td>$76.75</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>20” x 96”</td>
<td>13-06469</td>
<td>$77.75</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>24” x 96”</td>
<td>13-06470</td>
<td>$84.75</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>35” x 144”</td>
<td>13-06471</td>
<td>$156.75</td>
</tr>
</tbody>
</table>

**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” x 15”</td>
<td>13-06472</td>
<td>$29.95</td>
</tr>
<tr>
<td>Orange &amp; White Windsock</td>
<td>8” x 36”</td>
<td>13-06473</td>
<td>$43.50</td>
</tr>
<tr>
<td>Orange &amp; White Windsock</td>
<td>10” x 36”</td>
<td>13-06474</td>
<td>$51.85</td>
</tr>
<tr>
<td>Orange &amp; White Windsock</td>
<td>13” x 54”</td>
<td>13-06475</td>
<td>$61.75</td>
</tr>
<tr>
<td>Orange &amp; White Windsock</td>
<td>18” x 60”</td>
<td>13-06476</td>
<td>$76.75</td>
</tr>
<tr>
<td>Orange &amp; White Windsock</td>
<td>18” x 72”</td>
<td>13-06477</td>
<td>$83.75</td>
</tr>
<tr>
<td>Orange &amp; White Windsock</td>
<td>18” x 96”</td>
<td>13-06478</td>
<td>$89.75</td>
</tr>
<tr>
<td>Orange &amp; White Windsock</td>
<td>24” x 96”</td>
<td>13-06479</td>
<td>$105.75</td>
</tr>
</tbody>
</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 ¾” 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”</td>
<td>13-06481</td>
<td>$56.90</td>
</tr>
<tr>
<td>Ball Bearing Frames</td>
<td>13”</td>
<td>13-06482</td>
<td>$69.75</td>
</tr>
<tr>
<td>Ball Bearing Frames</td>
<td>18”</td>
<td>13-06483</td>
<td>$84.75</td>
</tr>
<tr>
<td>Ball Bearing Frames</td>
<td>24”</td>
<td>13-06484</td>
<td>$109.75</td>
</tr>
<tr>
<td>Ball Bearing Frames</td>
<td>36” Non Collapsible</td>
<td>13-06485</td>
<td>$159.75</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 ¾” female pipe through 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>
<td>13”</td>
<td>13-06487</td>
<td>$104.85</td>
</tr>
<tr>
<td>Extended Ball Bearing Frames</td>
<td>18”</td>
<td>13-06488</td>
<td>$123.95</td>
</tr>
<tr>
<td>Extended Ball Bearing Frames</td>
<td>24”</td>
<td>13-06489</td>
<td>$157.85</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 vertical surface or they can be installed right onto an existing 3/4” pipe thread pole.

**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 horizontal or peaked roof surface or they can be installed right onto an existing 3/4” pipe thread pole.

**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.

**AVIATION UNLIT 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.

**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.

**WINDSOCK FRAMES**

Totally enclosed housing prevents heavy duty ball-bearing from lock-ups, corrosion, and extended premature wear. Bearings are grease packed, metal shielded. Self contained unit easily attaches with 3/4” standard thread pipe.

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
WINDCONE WINDSOCK FRAMES

<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>
</tr>
</thead>
<tbody>
<tr>
<td>WCF6</td>
<td>6&quot;</td>
<td></td>
<td>7/8&quot;</td>
<td>13-17689</td>
<td>$27.85</td>
</tr>
<tr>
<td>WCF8</td>
<td>8&quot;</td>
<td></td>
<td>7/8&quot;</td>
<td>13-17690</td>
<td>$29.50</td>
</tr>
<tr>
<td>WCF10</td>
<td>10&quot;</td>
<td></td>
<td>7/8&quot;</td>
<td>13-17691</td>
<td>$35.75</td>
</tr>
<tr>
<td>WCF12</td>
<td>12&quot;</td>
<td></td>
<td>7/8&quot;</td>
<td>13-17692</td>
<td>$37.65</td>
</tr>
<tr>
<td>WCF18</td>
<td>18&quot;</td>
<td>1&quot;</td>
<td>1 1/2&quot;</td>
<td>13-17693</td>
<td>$163.75</td>
</tr>
</tbody>
</table>

WINDSOCKS

These windsocks are fabricated with double sewn seams and brass grommets for attachment. Bright red/orange nylon provides good long distance visibility.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot; Sock</td>
<td>05-05222</td>
<td>$31.70</td>
</tr>
<tr>
<td>13&quot; 55&quot; Sock</td>
<td>05-05223</td>
<td>$46.70</td>
</tr>
<tr>
<td>18&quot; 71&quot; Sock</td>
<td>05-05224</td>
<td>$61.75</td>
</tr>
<tr>
<td>24&quot; 120&quot; Sock</td>
<td>05-05225</td>
<td>$84.85</td>
</tr>
<tr>
<td>36&quot; 120&quot; Sock</td>
<td>05-05226</td>
<td>$146.75</td>
</tr>
</tbody>
</table>

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>
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13" WINDSOCK & FRAME

Made of bright red-orange Nylon and a white powder coated frame.

P/N 05-05232 ........... $86.75

36" COMMERCIAL / MILITARY 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. 135" mounted length. Frame not included.

P/N 05-05233 ........... $308.00

ORANGE AND WHITE WINDSOCK AND FRAME KIT

These complete USA made windsock kits include our aviation quality orange and white windsock, standard aluminum frame, heavy duty windsock ties, 30" long galvanized pole with 3/4" pipe thread, and mounting brackets. They are a stand alone unit for mounting on a flat vertical surface.

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WINDSOCK 18" X 48" FRAME AND SOCK KIT

These complete USA made windsock kits include our aviation quality orange windsock, standard aluminum frame, heavy duty windsock ties, 30" long galvanized pole with 3/4" pipe thread, and mounting brackets. They are a stand alone unit for mounting on a flat vertical surface. Windsock size 48" long ...... P/N 13-24024 ........... $121.80

WINDSOCK 10" X 36" TRIPOD MOUNT KIT

These complete USA made kits include our standard frame, windsock, windsock ties, pole, and tripod. They are a stand alone unit for mounting on a flat horizontal or peaked roof surface or they can be installed right onto an existing 3" pipe thread pole. Windsock size 10" diameter by 36" long. There is an additional oversize package shipping charge if you choose postal shipping rather than UPS shipping. * Windsock shown is 13"x34" ............... P/N 13-24024 .......... $129.95

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
**MONTAGUE FOLDING BICYCLES / ECO SCOOTER**

**MONTAGUE CROSSTOWN BIKE**


19 in Frame: 5'10" - 6'4". P/N 13-07246 $1,195.00
21 in Frame: 5'11" - 6'4". P/N 13-07247 $1,195.00

**MONTAGUE PARATROOPER PRO**


18 in Frame: 5'10" - 6'4". P/N 13-12970 $1,295.00
20 in Frame: 5'11" - 6'4". P/N 13-12971 $1,295.00

**MONTAGUE PARATROOPER™

The Paratrooper Elite is the highest performance folding mountain bike in the world, an aggressive hard tail built for technical single track. Larger 27.5" inch wheels roll over any obstacle while a full Shimano XT drive-train, Shimano XT hydraulic disc brakes, and Rockshox Reba suspension provide performance never before seen from a folding bike. Built upon the heritage of Montague’s Swissmilitary® folding bikes, the Elite takes the mountain line to new heights.

18 in Frame: P/N 13-21865 $949.00
20 in Frame: P/N 13-21866 $949.00

**MONTAGUE BOSTON BIKE**


19 inch Frame: P/N 13-07246 $1,195.00
21 inch Frame: P/N 13-07247 $1,195.00

**MONTAGUE PARATROOPER™

The Paratrooper is one of the many folding mountain bikes that Montague offers. Its patented folding design was developed to allow airborne soldiers to drop out of airplanes and maneuver and into combat. The Paratrooper offers advanced features with 24 speeds and front and rear mechanical disc brakes. Known for its durability and load bearing capabilities, this folding bike has also developed a following with everyday commuters and weekend warriors. The Folding Integrated Technology (FIT)™ is based around frame construction designs for serious full suspension downhill bikes.

18 in Frame: P/N 13-01068 $1,195.00
20 in Frame: P/N 13-01069 $1,195.00

**MONTAGUE NAVIGATOR BIKE**


19 inch Frame: P/N 13-07246 $1,195.00
21 inch Frame: P/N 13-07247 $1,195.00

**MONTAGUE PARATROOPER EXPRESS BIKE**

Like all Montagues, the Paratrooper Express is designed to fold and fit anywhere. With front suspension and semi-knobby tires, the Express is at home on and off-road. It makes for a perfect light trail or rugged commuter. With Shimano derailleurs, Suntour suspension, and Tektro brakes, the Paratrooper Express offers components from the industry’s top manufacturers, carrying on the Swissmilitary® tradition of performance and reliability.

16 in Frame: P/N 13-21864 $799.00
18 in Frame: P/N 13-21865 $799.00
20 in Frame: P/N 13-21866 $799.00

**MONTAGUE ALL-STON BIKE**

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.

19 in Frame: P/N 13-21862 $2,395.00
21 in Frame: P/N 13-21863 $2,395.00

**MONTAGUE URBAN BIKE**

The Urban is a folding bike with standard 700c wheels that delivers road performance on a budget. A 21-speed Shimano drivetrain provides ample gearing for hilly roads while wide 35mm tires cushion the ride over rough terrain and potholes. The patented RackStand offers cargo carrying capacity and a built in fender, acts as a kickstand, and serves as a stand for the folded bike.

17 in Frame: P/N 13-21859 $949.00
19 in Frame: P/N 13-21860 $949.00
21 in Frame: P/N 13-21861 $949.00

**MONTAGUE PARATROOPER™

The Paratrooper Highline Mountain Bike is a true cross country machine, 27.5" inch wheels provide superior rolling ability over obstacles and rough terrain. A Rockshox fork and hydraulic disc brakes satisfy the true XC rider looking for convenience. Like all Montagues, the Highline is designed to fit on the bus or train, and easily in your airplane, car trunk or boat. The Paratrooper Highline is a rugged 27.5" wheel folding mountain bike with a 2x10 drivetrain. With fat tires and a wide range cassette, the Highline is built for after-work rides on your favorite trails and full-on weekend excursions in the mountains.

18 in Frame: P/N 13-19002 $1,495.00
20 in Frame: P/N 13-19003 $1,495.00

**MONTAGUE PARATROOPER HIGHLINE MOUNTAIN BIKE**

The Paratrooper Highline Mountain Bike is a true cross country machine, 27.5" inch wheels provide superior rolling ability over obstacles and rough terrain. A Rockshox fork and hydraulic disc brakes satisfy the true XC rider looking for convenience. Like all Montagues, the Highline is designed to fit on the bus or train, and easily in your airplane, car trunk or boat. The Paratrooper Highline is a rugged 27.5" wheel folding mountain bike with a 2x10 drivetrain. With fat tires and a wide range cassette, the Highline is built for after-work rides on your favorite trails and full-on weekend excursions in the mountains.

18 in Frame: P/N 13-19002 $1,495.00
20 in Frame: P/N 13-19003 $1,495.00

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
PARA-CUSHION PARACHUTES

PARA-CUSHION 311 - WEDGE

The Para-Cushion 311 Wedge measures 24” (61cm) tall by 16” (40.5cm) wide by 1” (2.5cm) at the shoulders and 3” (7.5cm) at the lower back, and weighs approximately 16 lbs. (7.3 kg). This unique configuration allows for maximum comfort for the pilot of the parachute system to put you in a slightly reclined position. 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 the Pitts S-1, Pitts Model 12, Christen Eagle, RV-4, RV-6, Harmon 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 13-14779 $3,110.00

PARA-CUSHION 304 - SEAT

The Para-Cushion 304 Seat measures 30” (76.2cm) tall by 16” (40.5cm) wide by 1/2” (1.2cm) thick through the back, and 3” (7.5cm) thick in the seat cushion, and weighs approximately 18.5 lbs. (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” (2.5cm) to 6” (15cm) 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 not restricted or moving forward in the cockpit is not possible including: Skybolt, Yak 52, Yak 55, CJ-6, Stearman, Great Lakes, Pitts S 2B, Decathlon, RV-4 and many others. For RV-4 and RV-6 aircraft the seat cushion is modified slightly to fit the exact size of the seat pan. The options for the RV version remain the same as the standard version. System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Lil Grabber Pilot Chute, Seat Cushion, Carry Bag, and Manual. TSO - C23c cat. B. P/N 13-14783 $2,754.00

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 harness colors. Color Choices: Black, Red, Navy Blue, Royal Blue, and Olive Drab. The pack and cushion combination are shaped to fit fully into the seat to provide a large, stable, and comfortable seating area for the pilot. The harness is fully adjustable in the main lift web (vertical straps), as well as in the lumbar area to ensure proper fit, provide comfort, and remain comfortable. The parachute assembly is designed to be used in airplanes where head room is at a minimum and moving forward in the small of your back. The bucket style seat pan found in most warbirds such as: SN-J, T-6, Harvard, T-34, T-28, P-51, Stearman, and many others. TSO - C23c cat. B. Strong Seat 306 P/N 13-14781 $2,754.00

Strong 306 Harness Only P/N 13-15066 $1,698.00

ACROPRO 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” (60cm) tall by 16” (40cm) wide by 3” (7cm) thick and weighs approximately 25.9 lbs. (11.7 kg). The L-39 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 buckles at the hips. This provides you with fit-and-fly technology that perfectly replaces the original equipment and gives you peace of mind knowing that you have a comfortable, top of the line system. System Comes Complete with: Harness/Container, 28’ C-9 Parachute, Ripcord, Travel Cushion, G-Pad, Static Line, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B. P/N 13-15068 $4,136.00

MID-LITE CANOPY

The 26’ Mid-Lite is the finest reserve canopy available! It is a highly reliable 24 gore canopy. It is tested and 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 rigs of an emergency bail-out. In production since 1987 the Mid-Lite has proven time and again that it is the most rugged and reliable reserve you can own!

Canopy Shape
Conical
Canopy Cloth
30-50 cm
30-50 cm
(PA-C-1 or PA-C-2)
Size
26’
Turn Speed
Approx. 6 sec
Approx. 12 sec
Number of Gores
24
Forward Speed
6 - 8 mph (10-12 km/h)
22.5 mph
Line Length
17’6”
Opening Time
1.1 - 2.3 sec
Approx. 1 sec
Panels Per Gore
4
Rate of Descent
18.5 lbs @ 225 lbs
Suspension Line Material
Type 1A
Canopy Weight
Approx. 7 lbs
450 lbs
Suspension Line Strength
400 lbs
Maximum Weight
254 lbs (115 kg)
P/N 13-14782 $1,368.00

ACCESSORIES

CUSTOM MONOGRAMMING
Monogram your name, N number, or anything that space will allow on the front of your container. P/N 13-04907 $50.00

CAPPED EJECTION 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 $592.00

LUMBAR SUPPORT PAD
A rounded Tempor® foam pad that attaches in existing channel. Adjustable to just the right position in the small of your back. P/N 13-15065 $82.75

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 pilot’s sides providing extra support during high G maneuvers. P/N 13-15066 $189.00

ELT POCKET
This external pocket connects onto the system and holds the pilots ELT system. P/N 13-15094 $128.75

SHEEPSKIN BACK PAD
Sheepskin pads keep you cool in the summer and warm in the winter. Smoke P/N 13-11307 $198.00
Natural P/N 13-11309 $198.00
Black P/N 13-04911 $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 13-04909 $185.95
P/N 13-04910 $122.85
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 $109.75

PARA-CUSHION 305 - CHAIR

The Para-Cushion 305 Chair measures 42” (105 cm) tall by 16” (40 cm) wide by 2.5” (6.5cm) to 1” (2.5cm) thick and weighs approximately 16.5 lbs. (7.5 kg). This back mounted container is built to extend from the shoulders of the pilot to just above the knees. The 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 assembly is designed to be used in airplanes where your seat is reclined 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 13-15065 $2,595.00

PARA-CUSHION 303 - BACK

The Para-Cushion 303 measures 24” (60 cm) tall by 16” (40 cm) wide by 3” (7cm) 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, FW-5, Cap-10, Zlin 50, and Christen Eagle. System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B. P/N 13-03440 $2,681.00

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 weights approximately 25.9 lbs. (11.7 kg). The L-39 is designed for use in 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 buckles at the hips. This provides you with fit-and-fly technology that perfectly replaces the original equipment and gives you peace of mind knowing that you have a comfortable, top of the line system. Full system comes complete with: Harness/Container, Travel Cushion, G-Pad, Static Line, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B. P/N 13-15068 $4,136.00

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WWW.AIRCRAFTSPRICE.COM

Prices Subject To Change Without Notice - Valid as of June 1, 2023.
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CHECKMATE CHECKLISTS

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 the complete approach or radar vectored to the FAF, CheckMate IFR’s format will help keep the flight business orderly and functional. It is precise & specific to the different phases of those sometimes precarious 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® 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 pieces 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 checklist giving all details and responses needed by new students or pilots wanting a multi-page checklist without the usual bulk. Shirt pocket size with mark and erase surface for notes. The various checklists for your aircraft are stacked and color tabs allow you to locate the checklist you need.

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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, handoff’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, JEPP, & ELA charts, eliminating the need for that ruler you can never find.

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MOUNTAIN FLYING CHECKMATE

CheckMate Aviation’s new Mountain Flying CheckMate™ is a full color, plastic card that is a compilation 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 discover, 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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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
- Transponder Codes
- And Two of the More Commonly used Checklists:
  - The Before Takeoff Checklist
  - The Before Landing Checklist

THE PRECIFLIGHT CHECKLIST

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. .........P/N 13-01834 ...........

CHECKLISTS

THRU-VIEW EMERGENCY CHECKLISTS

QREF CHECKLISTS

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SEE WWW.AIRCRAFTSPRUCE.COM FOR COMPLETE LISTING OF QREF CHECKLISTS.
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 13-00813 $41.95

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 13-02298 $13.95

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 13-02299 $36.80

E6-B HIGH SPEED SLIDE - A companion product, this slide picks up where the traditional flight computer leaves off (ASA-E6B), 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 13-02301 $14.75

E6-B CIRCULAR FLIGHT COMPUTER

The E6B Circular Flight Computer combines high-quality construction and 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/N 13-16352 $29.95

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 13-08056 $5.95

PLOTS

Durable Lexan® resin won’t melt, warp or break in extreme temperatures - guaranteed! Each plotter features 8 scales to meet the needs of all VFR aeronautical charts - nautical on one side, statute on the flip. Nautical-Statute conversion scale also included. Made in USA.

ULTIMATE ROTATING PLOTTER - 13-1/4” long. Rotating azimuth eases flight planning with direct readout of courses. Made in USA. P/N 13-02302 $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 13-02424 $12.95

ULTIMATE MICRO PLOTTER - 8” long. Convenient for flight bag, shirt pocket, or airplane storage. Made in USA. P/N 13-02303 $8.75

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 WAC, 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 $9.95

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 $12.95

THE PILOT POCKET PEN HOLDER

The Pilot Pocket Pen holder is the easy solution to storing 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 $3.35

B3 AVIATOR PEN

Special slim design fits flight suit and military uniform pockets, this medium-point 3-in-1 twist pen comes with two different colored ink, and a 0.5 mm pencil with eraser. Featuring non-reflective flat finish on a metal barrel, this pen is FOD compliant for cockpit and ramp safety.

Barrel Color Ink Color Part Number Price
Black Red/Black 13-24415 $21.85
Sand Red/Black 13-24416 $20.95
Black Blue/Black 13-24417 $20.95

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
ASA PILOT SUPPLIES

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.

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

7 RING BINDER KIT
Contains 1 binder, 10 sheet protectors, 5 color side dividers and a sheet of area stickers. 7-Ring .......... P/N 13-02322 ............. $19.95

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 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. Convenient 7” x 9” size makes it easy to fit in almost any flight bag.

P/N 13-05825 ............. $11.95

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 Poly Folders ....... 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

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.

P/N 13-18431 ............. $5.95

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. Sturdy & 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.

SFR Private ................. P/N 13-01548 ............. $3.95
SFR Instrument ............. P/N 13-01551 ............. $3.95
SFR Helicopter ............. P/N 13-01547 ............. $3.95

CERTIFICATES AVIATION ACHIEVEMENT AWARDS
Authentic, full-color certificates are perfect for framing yet sturdy enough to slip into the student’s flight record as a pleasant surprise to be discovered on their next visit to the airport. Mark progress with style, while further motivating students. 9” x 12”. Sold in packs of 10.

Private Ground School Certificate ............. P/N 13-02327 ............. $14.50

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

P/N 13-06940 ............. $12.75

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

P/N 13-06935 ............. $12.75

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.

P/N 13-01043 ............. $12.75

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
**EZ ATIS REMINDER PILOT TOOL**

The EZ ATIS Reminder makes it easy to communicate the ATIS identifier. No more fumbling through papers for the ATIS identifier - or worse yet, having to recall the prefix from memory! The 1-5/8” diameter knob with 1/2” pointer has a peel and stick adhesive tape on the back that can be easily mounted on your instrument panel, knee board, or anywhere you need a quick ATIS recall. P/N 13-04920 $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 kneeboard with the hook and loop fastener provided in the purchased package. Left Hand .... P/N 13-16441 Right Hand .... P/N 13-16442 $34.95

**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™ comes with 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, JEPPE and ELA charts eliminating the need for that ruler you can never find. P/N 13-08799 $6.50

**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 $20.60

**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 on flying, less on calculating, thus fly more relaxed and safer. Blind Spot’s Original Pilot’s Ruler (for USA airspace) is a two-sided pilot’s ruler designed for flight preparation and use in flight. Size: 1.8” x 12” P/N 13-11733 $19.95

**ASA CX-3 ELECTRONIC FLIGHT COMPUTER**

**Note:** To mount the CX-3 flight computer, use the MGF suction shield mount. (See Accessories)

The CX-3 Flight Computer provides a fast, accurate flight computer solution and takes confusion out of the equation for ground school study, preflight planning, and enroute navigation. Fast, versatile and easy to use, the CX-3 delivers accurate results quickly and efficiently through an intuitive menu structure designed to follow typical flight planning sequences with a minimum of keystrokes. It can be used on all FAA and Canadian pilot, mechanic, and dispatcher knowledge exams.

A multitude of aviation functions can be performed on the CX-3 flight computer including those related to time, speed, distance, heading, wind, fuel, altitude, cloud base, standard atmosphere, glide, climb & descent, weight & balance, as well as a holding pattern function to help determine entry method and holding details. A calculator, clock, timer and stopwatch are also built in along with multiple settings for lighting, backlighting, themes, scrolling speed, time zones and more.

Weight: 0.70 lbs. Dimensions: 3-1/3” W x 6-1/2” H x 3/4” D

P/N 13-01040 $99.95

**ASA E6B METAL FLIGHT COMPUTER**

**STANDARD**

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 (9-3/4” x 5”) P/N 13-00813 $41.95

**MINI**

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 conveniently fits in a shirt pocket or glove box. P/N 13-02299 $36.80

**JEPPSEEN 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 in your desk at home. Printed numbers are sharp, clear, and easy to read. Like all Jeppesen products, the quality is superior.

Plastic: P/N 3866 $14.95

**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 $12.50

**PJ-1 ROTATING AZIMUTH**

Measure the true course or to determine the magnetic course. Includes scales for sectional terminal area & WAC charts in statute & nautical miles. Size: 3.25 x 13”, 3-3/8” Dia.

P/N 13-21726 $16.95

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**FLIGHT COMPUTERS – PLOTTERS – ACCESSORIES**

**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, time and 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 $44.95

**APR PLOTTER DNP-13**
13” Deluxe Navigation Plotter with nautical and statute scales, sawtooth graduated color-coded scales for Sectional, WAC, and Terminal Charts. PVC plastic 13-5/16” x 4” P/N 13-06696 $10.75

**JEPPSENE PV-5 IFR ENROUTE PLOTTER**
This plotter contains mileage scales (in nautical miles) for all enroute IFR charts. Determines the scale of the chart to be used (usually indicated along the edge of the chart) and then select the corresponding mileage scale on the plotter. Available scales are as follows: 1”: 5, 7.5, 10, 15, 20, 25, 30, 35, 40, 60, 80 and 100 nautical miles. Note that the nautical mile-to-inch conversion scale is included on the plotter for your convenience. When placed over a station, this plotter graphically shows actual standard (right hand) and nonstandard (left hand) turns for holding and entry pattern relative to your flight course. This APR plotter also may be used as a ruler using any of the mileage scales, but the 1”, 10 miles scale is considered most convenient. Just remember that every 10 miles equals 0.1 inch.
Size 3-3/16” x 8-1/2” P/N 13-21718 $13.50

**E6-B HIGH SPEED SLIDE**
A companion product, this slide picks up where the traditional metal flight computer leaves off (ASA-E6B), 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.
- E6-B High Speed Slide P/N 13-02301 $14.75

**PINK ERASABLE HIGHLIGHTER**
The Erasable Highlighter pen has a chisel tip that makes it easy to highlight large portions of text. On the other end of the highlighter is a clear liquid eraser. If you make a mistake highlighting textbooks, academic planners, or calendars this highlighter eraser will erase without a trace. The ink is acid-free and non-toxic.
- Specifications:
  - Water-based Fluorescent Ink
  - 3-Way Chisel Point on both ends
  - Color after highlighted can be erased with erasable ink end
Price P/N 14-01625 $4.35

**VOR TRAINING AID**
The VOR Training Aid includes a rotating OBS and a heading indicator dial. Both the glide slope and localizer CDI needles are movable and have an adjustable ON/OFF, NAV flag. The To/From indicator is also adjustable. List, depict and erase VOR intercept instructions and holding clearances in the top practice area.
P/N 13-16037 $18.95

**ADF TRAINING AID**
The ADF Training Aid features realistic rotating ADF bearing indicator needle and a heading indicator dial. List, depict and erase NDB intercept instructions and holding clearances in the practice area.
P/N 13-16038 $15.95

**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 receiver 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 "read" 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

**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 P/N 14-01625 $1.45

**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 course line. Place the compass rose over your departure point and rotate the straight side to your destination. Presto... an instant readout of your course!
- Lists 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

**RUNWAY SELECTOR**
Runway Selector is a simple tool pilots use to select the best runway based on prevailing winds. Runway Selector is a quick easy visual reference for all pilots! As an added bonus, the tool can also be used to confirm your take-off runway as well! Together, all the features of Runway Selector serve to provide multiple quick references for any pilot. The tool is also an excellent tool for instructors to use in teaching a new student pilot in a myriad of situations and teaching situations!
P/N 13-14811 $19.95

**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 13-04391 $5.50

**PILOTS FLASH CARDS**
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 course line. Place the compass rose over your departure point and rotate the straight side to your destination. Presto... an instant readout of your course!
- Lists 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
CHART CLIPS - TOOL BAGS - ACCESSORIES

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...$5.80 2 Small clips per package...P/N 13-06408 $9.75 1 Large clip per package...P/N 13-06409 $6.80

CESSNA COCKPIT ORGANIZER
The Cockpit Organizer slides easily between the seats and allows the pilot to easily put needed items within easy reach. Helps to make your cockpit safer, tidy, and adds instant storage. Designed for the modern cockpit. Places to hold drinks, tablets, cables and more are designed with the pilot in mind. Designed by a Cessna pilot for Cessna pilots. Cessna 172 P/N 13-24045 $290.00 Cessna 182 P/N 13-24043 $295.00

RARE AVIATIONS BAGGAGE ORGANIZER
The Baggage Organizer helps pilots keep the critical supplies neat and secure in the back of the aircraft. Supplies can be checked at a glance and everything has a storage place. • Weight 10 lbs • Dimensions 32 x 10 x 6.5 in. P/N 13-24044 $290.00

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 14-00889 $4.95 Yellow...P/N 14-01860 $4.95 Green...P/N 14-01861 $4.95 Orange...P/N 14-01862 $4.95

CESSNA YOKE CLIP
Yoke Mount Combo Clip (Large). Fits 1” - 1 1/2” Diameter Shaft...P/N 13-02845 $9.50

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 clip will come 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 chart clip will best fit your aircraft.
1.5” Post Standard Clamp...P/N 8131 $21.75 1.5” Post Wide Clamp...P/N 8487 $23.95 2” Post Standard Clamp...P/N 8690 $23.95 2” Post Wide Clamp...P/N 8822 $21.95 3” Post Standard Clamp...P/N 8674 $21.95 3” Post Wide Clamp...P/N 8915 $21.75

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 $17.50

APPROACH PLATE HOLDER
• 10 leaf • Flip-over (not accordion) • Size: 6” x 9” • Vinyl. P/N 13-02772 $1.00

23 POCKET BIGMOUTH BAG
17 Multi-use pockets inside and 6 outside organize tools and accessories. Opens 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 $28.50

12 POCKET TRAY TOTE 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. 12”L x 8”W x 12”H...P/N 12-00163 $57.95

14 POCKET TRAY TOTE 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 $82.75

MILITARY STYLE TOOL BAGS
These tool bags are made of heavy-duty military-type tough 18oz. 650d. 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 unpadded. All stitching 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 $72.50 O.D. Green: Large: 5” x 5” x 16” Bag...P/N 13-02600 $74.95

TOLD CARDS
Told Cards are a great cockpit accessory for pilots flying in VFR and IFR conditions.

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<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>SE VFR 3x5 - Double Sided Cards 25 Pack</td>
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<tr>
<td>SE IFR 3x5 - Sticky Note Pad 50 Cards</td>
<td>13-12012</td>
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<td>ME IFR 2.5x3 - Double Sided Cards 25 Pack</td>
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<tr>
<td>ME Take off 3x3 - Sticky Note Pad 50 Cards</td>
<td>13-12015</td>
<td>$6.99</td>
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AIRMAN CERTIFICATION HOLDER WITH FAA SYMBOL
Airman Certificate holder with imprinted FAA symbol...P/N 13-19713 $25.70

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 $13.50 7-1/2” X 8”...P/N 13-17904 $18.95 7.5” x 5.5”...P/N 13-17905 $14.95 14” x 5.5”...P/N 13-17906 $20.95

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 $32.75

PROLIGHT BOOSTER SEAT POUCH
• End cockpit clutter • Made or 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 $28.50 Blue...P/N 13-03005 $33.50 Red...P/N 13-31870 $18.65

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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).

TRIFOLD KNEEBOARD
The standard features include: right and left light pockets that double as pen/pencil pockets, 1-1/2" wide adjustable plastic strap, 4 clear plastic information pocket, right & left document loops, side release buckle, durable wire clip, and padded backing.

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, 1-1/2" wide adjustable plastic strap, 3 clear plastic information pocket, right and left removable document loops, side release buckle, easy access pocket, durable wire clip, and padded backing.

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).

JEPPESEN IFR THREE-RING TRIFOLD
The Jeppesen three ring trifolds is great for holding approach charts and features three approach chart pockets, collapsible rings, elastic pen / pencil / penlight holders, and a quick VFR reference information the clip board. Includes free U.S. Low altitude planning chart. Size: 10"x 20" open.

ASA IFR & VFR KNEEBOARDS
These IFR and VFR Knee-boards 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 holds 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 papers won’t rip when pulled out.

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 to the kneeboard holds this unit comfortably in place with a Velcro closure. Additionally, the foam-cradled 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 independently of the kneeboard. Designed for superior strength, abrasion resistance and durability.

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.

Color | Part No. | Price
--- | --- | ---
Black | 13-20221 | $119.75
Multi-Camo | 13-20633 | $115.75
Coyote | 13-20636 | $113.75

TRI-FOLD KNEEBOARD
This elongated 3-panel kneeboard accommodates aeronautical charts with 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, pen, pen and more. Quick VFR reference information is tooled 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 Note: Includes metal clipboard shown in center of the photo. Does not include E6B Flight Computer or charts in the right and left pockets.

MYCLIP MULTI KNEEBOARD STRAP
The MyClips 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 smart-phones 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.

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.

Small Dimensions: 9.5" H x 5" D x 6.5" W
P/N 13-19813 $12.95
Large Dimensions: 9.5" H x 5" D x 7" W
P/N 13-19814 $14.95

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**KNEEBOARDS**

**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. RTwo pencil pockets. RFastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.

P/N 13-19805 ...........$46.65

**W-4 KNEEBOARD**
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 around. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.

P/N 13-19806 ...........$32.65

**FLIGHT OUTFITTERS CHART KNEEBOARD**
The most important piece of many pilots’ avionics packages is the one sitting on your lap. The iPad has changed the way we fly and having it firmly mounted in the right spot essential to situational awareness in the cockpit. A new silicone attachment mechanism allows you to see more of the screen while taking up the minimal amount of space in your flight bag. The flexible holder is mounted to a firm surface that also provides rotational capabilities. Do you fly landscapes for cross country and portrait for approaches? No problem. The Centerline Kneeboard easily rotates around the center-of-mass for the iPad.

Small, ...............................P/N 13-24362..............$69.95
Large, ...............................P/N 13-24361..........$74.95

**EFB CADDY**
In a word it is all about “SAFETY!” With the advent of Electronic Flight Bag (EFB) 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 secure pilot experience, by addressing the deficiencies found in many of the current Tablet holder products. Secure physical attachment and head-up, unobstructed panel and outside view are critical features.

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<tr>
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<td>Model: A - Cradle / Size: Large, Height 8.25” - 11.25”, Width 7.75” Max., Depth 0.56” Max.</td>
<td>11-14025</td>
<td>$224.95</td>
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<td>Model: B - Cradle / Size: Small, Height 8.25” - 11.25”, Width 6.80” Max., Depth 0.50” Max.</td>
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<td>Model: C - No Cradle</td>
<td>11-14027</td>
<td>$210.95</td>
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</table>

**SECRET POCKET PHONE CASE GENUINE LEATHER**
This traveler’s 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.

P/N 13-15692 ...........$33.75

**ULTIMATE KNEEBOARD IPAD HOLDERS**
The Ultimate Kneeboard® iPad® holder has a seven ring design so it will fit both models of the Ultimate Kneeboard®. It is also designed to fit all models of the iPad® and iPad® mini. The Ultimate Kneeboard iPad® holder is made from the same durable materials as the Ultimate Kneeboard®. It is held in place at each corner with heavy-duty elastic and offers easy access to the Home button and connector port. Just like the Ultimate Kneeboard®, the iPad® holder comes with a money back guarantee and is made in the USA by folks from Boise, Idaho.

Mini iPad........................................P/N 13-16345 ..........$37.50

**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.

Small Dimensions: 5” x 8” when closed, 14 ½” x 8” when open

P/N 13-19810 ...........$27.65
Large Dimensions: 7” x 9 ½” when closed, 20” x 9 ½” when open

P/N 13-19811 ...........$32.65

**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.

P/N 13-07022 ...........$46.50

**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.

P/N 13-07023 ...........$46.50

**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

**CASE GENUINE LEATHER**

**SECRET POUCH**

- Passport
- Money
- Credit Cards
- Small Valuables

P/N 13-07022 ...........$37.95

**TRAVELER'S GENUINE LEATHER**

- Passport
- Money
- Credit Cards
- Small Valuables

P/N 13-07023 ...........$46.50

Prices Subject to Change Without Notice - Valid as of June 1, 2023.

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IPAD KNEEBOARDS – ACCESSORIES

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. Changes between portrait & landscape effortlessly. Made of high-quality Aluminum & professional grade webbing. For iPad 2, 3, and 4 & allows for power plug or GPS connector port. P/N 13-12952 $44.95

APPSTRAP IPAD GEL CASE 2/3
The original AppStrap now with a Gel case. TPU Gel Case. Fits the iPad & iPad3. Instantly share, stow or reposition. P/N 13-15458 $45.75

APPSTRAP FOR IPAD AIR
This clip is approximately .75 inches thick. The original AppStrap archi-lecture now with a full skin instead of clips. Works well with both the iPad Air 1 and the new iPad Air 2. Product includes black, form-fitting protective gel case, adjustable leg strap and buckle, and 2 Tilt Pads for glare reduction and stability. P/N 13-14753 $47.85

THE APPSTRAP 5
Fits most tablets (8” - 10”) when used with large protective case (Not Included.) Devices: iPad 4- , iPad mini, Fire 5.9, 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 13-10741 $66.75

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. You are the captain of the airplane, not 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: a custom-designed cradle, tailored to your iPad-1 or iPad-2, enclosed to the remarkable G-Force GF2 Twin base. In lab tests, the GF2 Mount holds a 53.25 gross pounds and withstands a sheer force of 16.38G’s. 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 13-12776 $189.95

FLIGHT OUTFITTERS DELUXE
IPAD FLIGHT DESK
The Flight Outfitters Deluxe iPad Flight Desk is perfect for the modern iPad pilot, with built-in flexibility for different missions. The innovative 2-in-1 design incorporates a universal kneeboard design and a iPad Organizing Case. The iPad Kneeboard A rigid mounting board is attached to thick, elastic straps to provide a secure surface for an iPad or phone. Three sizes of silicon holders (included) are the perfect size for 9-11” iPads, iPad Mini, and most phones. Attach your iPad in portrait or landscape mode via velcro and use the attached bracket to elevate your device to remove glare. Three small pockets with elastic straps keep charging cables organized, and the internal pocket is perfect for a backup iPad battery pack. Two loops can hold a stylus and pen, and an included clipboard can be used on the inside or outside of the case. Add the kneeboard for a complete flight desk. P/N 13-23895 $99.95

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

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. Product 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 $59.75

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 $59.75

ULTIMATE STAND ALONE MINI IPAD HOLDER
The iPad Mini holder has a seven ring design so it will fit both models of the Ultimate Kneeboard™. There are also two additional grommets which will allow it to be secured to a laptop 8.5” x 11” organizer/binder. Based on customer feedback to have The Ultimate Kneeboard on one leg and your mini iPad on the other leg, they are pleased to offer The Ultimate Kneeboard Stand Alone iPad mini holder. It’s made from the same durable materials as the Ultimate Kneeboard™. The iPad mini is held in place at each corner with heavy-duty elastic and offers easy access to the Home button and connector port. P/N 13-23583 $42.75

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.

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 13-12785 $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 13-12786 $47.95

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

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 $58.95

APPSTRAP IPAD GEL CASE 2/3
The original AppStrap now with a Gel case. TPU Gel Case. Fits the iPad & iPad3. Instantly share, stow or reposition. P/N 13-12952 $44.95

APPSTRAP FOR IPAD AIR
This clip is approximately .75 inches thick. The original AppStrap archi-lecture now with a full skin instead of clips. Works well with both the iPad Air 1 and the new iPad Air 2. Product includes black, form-fitting protective gel case, adjustable leg strap and buckle, and 2 Tilt Pads for glare reduction and stability. P/N 13-15458 $45.75

THE APPSTRAP 5
Fits most tablets (8” - 10”) when used with large protective case (Not Included.) Devices: iPad 4- , iPad mini, Fire 5.9, 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 13-10741 $66.75

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. You are the captain of the airplane, not 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: a custom-designed cradle, tailored to your iPad-1 or iPad-2, secured to the remarkable G-Force GF2 Twin base. In lab tests, the GF2 Mount holds 33.25 gross pounds and withstands a shear force of 16.38G’s. 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 13-12776 $189.95

FLIGHT OUTFITTERS DELUXE
IPAD FLIGHT DESK
The Flight Outfitters Deluxe iPad Flight Desk is perfect for the modern iPad pilot, with built-in flexibility for different missions. The innovative 2-in-1 design incorporates a universal kneeboard design and a iPad Organizing Case. The iPad Kneeboard A rigid mounting board is attached to thick, elastic straps to provide a secure surface for an iPad or phone. Three sizes of silicon holders (included) are the perfect size for 9-11” iPads, iPad Mini, and most phones. Attach your iPad in portrait or landscape mode via velcro and use the attached bracket to elevate your device to remove glare. Three small pockets with elastic straps keep charging cables organized, and the internal pocket is perfect for a backup iPad battery pack. Two loops can hold a stylus and pen, and an included clipboard can be used on the inside or outside of the case. Add the kneeboard for a complete flight desk. P/N 13-23895 $99.95

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

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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THE APPSTRAP FOR IPAD MINI
The original App Strap architecture now with a full skin instead of clips. 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 kneeboard, only a strap & skin that your iPad mini fits in.
P/N 13-12709 ..................$65.75

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

APPSTRAP CONVERSION KIT
Turn any tablet into a kneeboard 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 IPAD CLIPBOARD ADD-ON
A sturdy 3001 grade aluminum clipboard is riveted to a soft velvety backing to protect your iPad touch screen. Pen holder at the top. This is an add-on accessory for the genesis and genesis 2 iPad cases. Not a standalone kneeboard.
P/N 13-14734 .................$24.75

W-4 IPAD MINI KNEEBOARD FOR USE WITHOUT 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 kneeboard has 4 elastic bands 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 ..................$47.50

W-4 IPAD MINI KNEEBOARD 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 kneeboard has 4 elastic bands 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 ..................$47.50

AIRGIZMOS IPAD 1 / 2 / 3 KNEEBOARD
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 tablet holder drops out of the way when not in use. Ability to adjust the angle of the iPad for best viewing angle and the ability to drop 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 13-11128 ..................$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 handle 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 KNEEBOARD
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 buttons. The left side has pockets to store your documents and provides a writing surface.
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

ASA IPAD KNEEBOARD WITH COVER
The iPad Kneeboard is a versatile case and kneeboard 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 folds up or down for optimal viewing and pocket provides access to charts and papers • Dock connector / power port accessible with the cover closed • 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

FLIGHT OUTFITTERS SLIMLINE IPAD KNEEBOARD
The Flight Outfitters Slimline 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. The 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 to iPad controls and buttoh. The left bracket 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 kneeboard in place. Two mesh pockets on the kneeboard 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 ..............$59.95
MFG PRODUCTS

MFG IPAD 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, 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 a cockpit 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 tight yoke clearance or when mounting is desired. Note: This is the iPad Kneeboard only. Mounts sold separately. P/N 13-18845........$129.00

MYGOFLIGHT IPAD AIR 4 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 Air 4. Note: Mounts Sold Separately..............P/N 13-23888........$129.00

MFG 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........$129.00

MFG 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

MFG ARMORGLAS SCREEN PROTECTORS
When it comes to screen protection, nothing is better than the feel and clarity of pure glass. ArmorGlass™ is like having no screen protector on at all - you won't even realize it's there. ArmorGlass™ 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. ArmorGlass™ 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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MFG IPAD PRO 12.9 / 11-13 INCH TABLET KNEEBOARD FOLIO C
The iPad Pro Universal Kneeboard Folio™ C (including clip) 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. P/N 13-19537............$179.00

MFG IPAD MINI UNIVERSAL 7-8 INCH TABLET KNEEBOARD FOLIO C
The iPad Mini Universal Kneeboard Folio™ C (including clip) 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 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 mini 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. P/N 13-19535............$159.00

MYGOFLIGHT IPAD / TABLET LEG MOUNT
iPad Leg Mount – The Ultimate Kneeboard. Now you can tilt and position the iPad or iPad Mini where it is easily seen & operated. Like adding an additional screen to your cockpit. Maintain full visibility of panel information & controls. Rock solid, very comfortable, magnetic latch straps. For airplanes and helicopters or any application where the iPad is to be secured to your leg. Easily rotates between portrait and landscape modes. iPad/Tablet Device Holder (Sold Separately). Images shown of the holders are illustrative..............P/N 13-23779............$179.00

MFG APPLE CERTIFIED PREMIUM LIGHTNING CABLE (3FT)
This premium Charge + Sync cable makes it easy to connect your Apple portable to a computer, USB charger, or compatible car receiver. It features high end aluminum casing around the heads for added durability. The cable is wrapped in a high quality braided fabric that resists tangles, kinks and knots. Metal Connectors: High end aluminum connectors ensure you’ll have a snug, reliable connection every time. 3 Feet: 3.28 feet of cable. Lightning Connector: For use with any iPhone, iPad, or iPod that uses the lightning connector........P/N 13-19558............$24.99

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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...........$129.00

MGF IPAD FLIGHT BAG PLC SPORT
A smaller version of the Flight Bag PLC Pro is finally here. The Flight Bag PLC Sport. Enough room 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: Large side pocket is designed to hold a handheld radio securely. Mesh Pockets: Interior pockets are made out of mesh to easily locate and access your gear. Water Resistant: Exterior of the bag is made of sail cloth making it water resistant.

P/N 13-18712.............$229.00

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. This bag gives you the style, storage, organization, compact size and functionality like never offered before.

P/N 13-22205.............$399.00

MGF FLIGHT PLCC 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 shell 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.............$299.95

MGF HEADSET BAG
Micro-fiber lining cleans and protects the screen while the durable diamond stich fabric on the outside prevents rippling 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.............$19.99

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 PEN HOLDER
Add this self-slick 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 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 and 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 760, 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.............$54.00

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 paired 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.............$44.00

MYGOFLIGHT COMPACT BOLTED QUICK RELEASE
The Compact Bolted Quick Release secures to any solid, flat surface and is compatible with the industry standard AMPs hole pattern. The mount provides maximum stability and reliability. When the base is secured you can slide in the mount and lock it in place using Clip slides. Base measures 1.56” x 1.875”...

P/N 13-24296.............$149.00

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.............$48.99

MGF KNEEBOARD STRAP
A Strap made to go with MGF kneeboards 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
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 ............................$169.00

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 ............................$199.00

MGF SPORT™ MOUNT FLEX 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 ............................$149.00

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 Device Holder to use this mount.................................P/N 13-19511 ............................$199.00

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 ............................$169.00

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 the 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 ............................$149.00

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 ............................$169.00

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 ............................$169.00

MGF SPORT™ MOUNT FLEX ADAPTER
This accessory is used to mate Sport™ and Sport™ NR cases to any existing RAM mount or RAM equivalent installation that will accept a 1” ball. **Note:** You must have a Device Holder to use this mount.................................P/N 13-12419 ............................$73.75

MGF SPORT™ MOUNT FLEX STUD
The iPad Mount - Flex Stud is the perfect mounting solution for pilots that would like to install an iPad directly into their panel, such as in many experimental aircraft. The stud secures easily to any hole in the panel for easy mounting. **Note:** You must have a Device Holder to use this mount.................................P/N 13-19516 ............................$129.00

MGF SPORT™ UNIVERSAL CRADLE XL
The Sport™ Universal Cradle XL (10"-13") Tablets is designed to work with almost any airplane virtually any case, or no case at all. As a mountable, it connects and easily rotates when paired with MGF Sport Mounts. Compatible with many tablets from 10 inches to 13 inches.................................P/N 13-19521 ............................$159.00

MGF SPORT™ PHONE CRADLE
Phone Cradle is designed to work with almost any smart phone in virtually any case, or no case at all. As a mountable, it connects and easily rotates when paired with MGF Sport Mounts. Compatible with many smartphones as small as the iPhone 5 and as big as the iPhone 6 Plus (Minimum width = 2 3/8” I Maximum width = 3 15/16”). P/N 13-19524 ............................$59.00

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 ............................$54.00

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™ Adapter - Generation 2.................................P/N 13-16369 ............................$149.00

MGF SPORT 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 mount comes with a Sport™ Adapter – Generation 2. For pilots looking for more articulation and distance from the iPad to the mounting surface, choose the Flex Suction EX.................................P/N 13-16370 ............................$149.00

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 ............................$149.00

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 in how the iPad/Tablet is positioned. 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 flexibility while keeping the space used to a minimum. **Note:** You must have a Device Holder to use this mount.................................P/N 13-19534 ............................$129.00

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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 13-18917 ...........

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 13-18918 ...........

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 and also features a hard-wired 2.7 amp connection from the rear to power the device mount! This way you can provide power to an external component like a phone or GPS/ADS-B receiver while keeping your device charged! Choose from a Single USB Round Faceplate or Single USB Square Faceplate. Can be mounted either horizontally or vertically.

### IFDR Panel Mount Packages

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<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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### SmartPanel Mounts

The SmartPanel Mount for Apple iPads 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 smartPanel mount allows your iPad to be docked in seconds, fully connected to power and audio with built-in cable ports. Each mount has a built-in Fan Blower (14 or 28V).

### Lighting Cables

**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 Air™ Versions 1 | 2 | 3 | 4 / iPad Pro™ 10.5, 11.0, 12.9. Switch between using Micro USB or power by battery (AA 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: 8 oz (no battery) Dimensions: 3.5 x 7 x 1 in.

P/N 13-19502 ........... $199.95

**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 | 3 | 4. Switch between using Micro USB or power by battery (AA 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 battery) Dimensions: 3.3 x 6 x 1 in.

P/N 13-19503 ........... $179.95

**X-NAUT ACTIVE COOLING MOUNT FOR IPAD PRO - 10.5**

The Active Cooling Mount was created for iPad™ users in extreme conditions. Works with iPad Pro™ 10.5. *iPad™, AA batteries and micro USB cord are not included*................. P/N 13-21626 ........... $199.95

### iPad Mini Panel Mounts

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<th>Description</th>
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<tr>
<td>iPad Mini Panel Mount Round</td>
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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 ...........$39.95

**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.*

Mini......P/N 13-19506 ...........$34.50

**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 ...........$39.95

**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 ...........$39.95

**PEAVEY TABLET MOUNTING SYSTEM III**
- Suitable for use with most tablets and smartphones (with outside dimensions ranging from 4.7” to 9”) - Touch points securely hold your tablet in place without any damage - Sturdy, durable high quality frame construction - Quick setup and release - Universal clamp securely mounts to microphone stands and keyboard stands (with tubed diameters of up to 28mm) - Multi-angle adjustment allows universal positioning of the tablet or smartphone - Threaded adapter allows direct mounting to a microphone stand

P/N 11-19146 ...........$29.95

**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 ...........$59.95

**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!

Mini: P/N 13-22321 ...........$34.95
Standard (Air, Pro, etc.): P/N 13-22320 ...........$34.95

**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 HAV2 aviator hood for drone pilots mounts to your Mini and Air/Pro 9.7” for improved outdoor viewing. The bottom panel of the 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

**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 ...........$56.95

**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 ...........$45.70

**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 ...........$12.50
PIVOT 10X CASE - FITS IPAD (7TH-9TH GEN.), IPAD AIR (3RD GEN.), IPAD PRO 10.5-INCH
Flyboys Pivot Case - iPad 7th Generation / 10.5 Pro / AIR3- Black The PIVOT 10X is an incredibly versatile case, featuring full compatibility with the iPad (9th, 8th, 7th generation), iPad Air (3rd gen.), and the iPad Pro 10.5-inch. This case includes the PIVOT Universal Spacer, which gives full compatibility with the iPad Air (3rd gen.) and the iPad Pro 10.5-inch. The PIVOT 10X fully supports all the features of these devices, including the fingerprint scanner (iPad Pro 10.5-inch), Apple Pencil support, Apple Smart Keyboard support, and more. P/N 11-19541 $144.95

PIVOT CASE - IPAD MINI 6 - BLACK BODY / BLACK CLIP
Representing a new generation of PIVOT cases, it incorporates compelling new features while supporting all key features of the iPad Mini (6th gen.). With the superior quality and design you expect from PIVOT, the PIVOT T21A provides industry-leading protection while helping you leverage your new iPad to its maximum potential at home, on the road or in your aircraft. Like all PIVOT cases before it, the PIVOT T21A will securely connect to any existing or future PIVOT mount using the patented and exclusive PIVOT Click-Connect mounting system. P/N 11-19540 $144.95

PIVOT A20A CASE - FITS IPAD AIR (4TH AND 5TH GEN.), IPAD PRO 11-INCH (1ST THRU 4TH GEN.) - BLACK
The PIVOT A20A is an elegant, robust case designed specifically to accommodate the key features of iPad Air (4th and 5th gen.) while maximizing full compatibility with the iPad Pro 11-inch (1st, 2nd, 3rd and 4th gen.). With numerous enhancements, this is the best PIVOT case yet. It offers unbeatable 360-degree protection from drops, impacts, and scratches, while the detachable PIVOT Screen Cover provides scratch-resistant screen protection in transit and while connected to any PIVOT mount. The improved 2nd generation PIVOT Kickstand is reinforced with internal ribs for maximum strength and durability and provides 120-degrees of adjustability to support a wide range of viewing angles. Improved openings for the iPad’s wireless antennas facilitate flawless reception for cellular, Wi-Fi and Bluetooth. P/N 11-19544 $149.95

PIVOT PRO 105 CASE - FITS IPAD PRO 10.5-INCH, IPAD AIR (3RD GEN.) - BLACK CASE / BLACK CLIP
The PIVOT PRO 105 features full compatibility with the iPad Pro 10.5-inch and iPad Air (3rd gen.) with one-piece construction, an inner shock-absorption layer, and a hardened shell, leverage your iPad to its maximum potential while ensuring unparalleled protection for your device whether you are at home, on the road or in your aircraft. It securely connects to any PIVOT mount using the patented and exclusive PIVOT Click-Connect mounting system. The system is simple and intuitive: slide the case onto the mounting plate through the Click-Connect mounting channel until the integrated clip secures it in place with a “CLICK.” Remove the case by simply pressing the top of the clip to release it and slide the case off of the mount. P/N 11-19542 $144.95

PIVOT CASE FOR IPAD MINI 4/5 GENERATION - BLACK BODY / BLACK CLIP
The PIVOT MIN is a versatile and rugged case for the iPad Mini (5th gen.) and iPad Mini 4. It fully supports all the features of these iPad models, including the fingerprint scanner, cameras, microphone, and more, ensuring that you will be able to get the most out of your iPad while providing the best protection from damage of any case on the market. With one-piece construction, all polycarbonate top-plate, inner shock-absorption layer, and a hardened shell, leverage your iPad to its maximum potential while ensuring unparalleled protection for your device whether you are at home, on the road or in your aircraft. It securely connects to any PIVOT mount using the patented and exclusive PIVOT Click-Connect mounting system. P/N 11-19539 $139.95

PIVOT PRO11 CASE - FITS IPAD PRO 11-INCH (1ST-2ND GEN.) - BLACK
The PIVOT Pro 11 (2nd gen) fully supports the key features Apple implemented in the iPad Pro 11-inch (2nd generation), including the Advanced LiDAR Scanner, Apple Pencil and more. Leverage your iPad Pro 11 to its maximum potential while ensuring unparalleled protection for your device whether you are at home, on the road or in your aircraft. The PIVOT Pro 11 (2nd gen) securely connects to any PIVOT mount using the patented and exclusive PIVOT Click-Connect mounting system. The system is simple and intuitive: slide the case onto the mounting plate through the Click-Connect mounting channel until the integrated clip secures it in place with a “CLICK.” Remove the case by simply pressing the top of the clip to release it and slide the case off of the mount. P/N 11-19543 $139.95

PIVOT CLAW MOUNT
With incredible clamping power from the Tough-Claw Clamp, the PIVOT Claw Mount will not lose its grip, ensuring that your device remains exactly where you mounted it regardless of flight conditions. The small clamp works on round, square, and odd-shaped rails ranging from 0.625” to 1.5” in diameter, and flat surfaces ranging from 0” to 1.14” in thickness. It is also available with an extended arm for applications that require a little more reach. The medium clamp works on round, square, and odd-shaped rails ranging from 1” to 1.875” in diameter, and flat surfaces ranging from 0” to 1.6” in thickness. P/N 11-19558 $59.95

PIVOT YOKE CLAMP MOUNT
Introducing the PIVOT Yoke Clamp Mount, an unbeatable yoke-mounting solution. It is available in two sizes to a wide range of aircraft. The Small Clamp fits aircraft with yoke rods between 1-2.1 inches in diameter, such as those found in Cessna aircraft. The Large Clamp fits aircraft with yoke rods between 2-3 inches in diameter, such as those found in the Beechcraft Bonanza and other popular aircraft. P/N 11-19560 $49.95 P/N 11-19561 $49.95

PIVOT DOUBLE SUCTION CUP MOUNT - 0.75-INCH BALL ARM
This mounting solution is highly recommended for helicopter applications. The most secure mount available to handle the most demanding operational environments. Dual locking suction cups, this provides peace of mind that regardless of acceleration forces or vibration inherent to certain aircraft, the mount will remain securely attached throughout the entire flight. Originally designed to meet the demands of the military and the helicopter community, and now available for all pilots who require maximum grip from their mount. 19cm Arm P/N 11-19549 $119.95 22cm Arm P/N 11-19550 $119.95

PIVOT DOUBLE SUCTION CUP MOUNT - 1-INCH BALL ARM
This mounting solution is highly recommended for helicopter applications. Double Suction Cup Mounting: Provides extra grip for applications where two suction cups are desirable, such as on highly curved surfaces or in aircraft that are prone to high vibration levels, such as helicopters. Complete Mounting Solution: Includes all hardware necessary to mount a PIVOT case in virtually any aircraft, vehicle, desktop, or other non-porous surface. Dual PanaVise Locking Suction Cups: Nearly unbreakable grip thanks to the mechanically activated dual-mode suction cups. PIVOT Click-Connect: Quickly and securely attaches to any PIVOT case. FAA Approved: Tested and approved by the FAA for use in-flight. P/N 11-19548 $115.50

HIGH DEFLECTION FLUSH PERMANENT MOUNT
The High-Deflection Flush Permanent Mount offers a desirable, low profile, permanent mounting option, with a high-deflection adapter that provides additional flexibility and device viewing angles. Can be mounted to certain aircraft yokes, instrument panels, or anywhere else that make sense based on the application. Depending on the aircraft and under what rules it is operated (Part 121, 135, etc), installation of this mount may require engineering and/or regulatory authority approval. P/N 11-19556 $34.95

PPX PLATE WITH STEEL AMPS PLATE
The Flush Permanent Mount offers a durable, low profile, permanent mounting option. Can be mounted to certain aircraft yokes, instrument panels, or anywhere else that make sense based on the application. Depending on the aircraft and under what rules it is operated (Part 121, 135, etc), installation of this mount may require engineering and/or regulatory authority approval. P/N 11-19555 $24.95

PIVOT SHORTY SINGLE SUCTION CUP MOUNT
Compact version of the popular 809PPK Single Suction Cup Mount, ideal for applications where space is limited. Attaches to any non-porous surface with unshakable grip due to the Locking Suction Cup. Adjustable viewing angles P/N 11-19545 $48.95

PIVOT SHORTY SINGLE SUCTION CUP MOUNT
Compact version of the popular 809PPK Single Suction Cup Mount, ideal for applications where space is limited. Attaches to any non-porous surface with unshakable grip due to the Locking Suction Cup. Adjustable viewing angles P/N 11-19546 $48.95

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
The PIVOT Low Profile Suction Cup Mount is suitable for any number of devices including the FlyBoys Classic Kneeboard, the Reversible Kneeboard, and the T-6 NavMaster SaddleBag. This accessory provides an excellent writing surface and a stable platform for checklists, while conforming to the pilot’s leg for maximum comfort. This clipboard is the only suitable alternative to rigid aluminum clipboards.

The Lightboard XL is a lightweight and durable flexible construction provides an excellent writing surface and a stable platform for checklists, while conforming to the pilot’s leg for maximum comfort. This clipboard is the only suitable alternative to rigid aluminum clipboards.

The FlyBoys Classic Kneeboard is designed to accommodate standard-size checklists, these FlyBoys Classic Kneeboards incorporate the same features of the popular FB1000 FlyBoys Checklist Rings, with a PVC-coated braided stainless steel locking mechanism. The result is an ultra heavy-duty ring that should last a lifetime in the toughest operational environments. The ring is constructed from heavy duty monofilament plastic ensuring years of trouble-free use in the toughest operational environments.

The PIVOT Low Profile Kneeboard Adapter transforms a FB3316 or FB3316 to an electronic clip. It is fully adjustable and will fit the clipboard into place where the mounting plate offers the finest, most secure design for mounting a device on the pilot’s leg. The kneeboard insert is a folding clipboard replacement. Just insert into the clipboard pocket and feed the map strap under and through the mounting plate. (P/N 11-19552) $29.95

The PIVOT Low Profile Kneeboard Adapter is designed to accommodate checklists that are too large for the PIVOT Low Profile Kneeboard. The molded base and pads offer the slimmest, most secure design for mounting a device on the pilot’s thigh. The kneeboard insert is a folding clipboard replacement. Just insert into the clipboard pocket and feed the map strap under and through the mounting plate. (P/N 11-19552) $29.95

The PIVOT Leg Strap is compact, streamlined, and ergonomic, the PIVOT Leg Strap securely mounts any PIVOT case to the pilot’s leg, providing a wide range of adjustability. Includes two adjustable leg straps to ensure a comfortable fit, while the locking tab and textured underside ensures the leg strap remains in place through all phases of flight. The included belt tethers provide extra security by keeping the strap firmly in position, even while walking. (P/N 11-19552) $39.95

The REVERSIBLE KNEEBOARD is the unique reversible design accommodates all pilots, left and right-handed, and can be configured to suit the pilot’s preferences and mission requirements. All pouches and pen pockets are removable and secured in place with hook and loop fasteners. The durable 600D fabric ensures years of use in the most demanding operational environments. The FlyBoys Classic Kneeboard, the FlyBoys Reversible Kneeboard features seven eyelets for securing checklists, plastic checklist pages, in-flight guides, and more. The 5 x 8” clipboard can be secured standard approach plates. The clipboard can also be removed to accommodate PIVOT Low Profile Kneeboard Adapter (sold separately) for mounting any devices protected by a PIVOT case. The FlyBoys Reversible Kneeboard is the kneeboard of choice for military and civilian pilots everywhere.

The FLYBOYS FLEXIBLE CLIPBOARD supports general aviation flight, flight training, flight attendant, flight crew, or any application that requires a lightweight and flexible clipboard. The FlyBoys Deluxe Pen Loop is the highest quality, most versatile, and most comfortable means to help pilots prevent FOD in the cockpit due to dropped pens or pencils, and keeps writing implements at the ready for times when it may be necessary to copy information with little to no notice. It is fully adjustable and will fit most hands, is ambidextrous and perfect for flight and left-handed pilots, and the pen holder pivots to support a wide range of angles. (P/N 13-24444) $5.40

The CHECKLIST RING 1.75 IN DIAMETER BLUE is a classic, combat-tested FlyBoys Checklist Ring that has been in widespread use throughout the military for many years, and are the #1 checklist ring in use by the US Air Force. Designed to accommodate standard-size checklists, the FlyBoys Checklist Rings are 1.75 inches when locked, and feature the FlyBoys-exclusive stainless steel locking mechanism. The ring is constructed from heavy duty monofilament plastic, ensuring years of trouble-free use in the toughest operational environments. (P/N 13-24428) $13.90

The CHECKLIST RING XXL is specifically designed for the AT&T T-38, with countless flight hours spent developing, testing and optimizing the design for AT&T-T-38 pilots. The resulting FlyBoys AT-T-38 Pubs bag is a quantum leap ahead of the traditional government-issued rubber-canvas T-38 pubs bags. (P/N 13-24437) $27.75
FLYBOYS 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 sunglasses case. Slots on the opposite side for 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 .......... $29.95

FLYBOYS HELMET BAG
420 Denier Cordura Nylon with 1/2" cloth poly-fill 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 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

FLYBOYS IFR/VFR KNEEBOARD
Features seven eyelets for securing checklists, plastic checklist pages or your in-flight guide - (every base has different spacing) includes the new flexible plastic clipboard (FB1080); 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 won’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 .......... $31.50
Army Pilots logbook .......... P/N 13-06410 .......... $31.50

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: 6" X 5" ........... P/N 13-05627 .......... $0.80
Bulk back (25 Pk.) w/ Covers P/N 13-05629 .......... $15.95
Duty Covers For Checklist Pages Only .......... P/N 13-22013 .......... $19.75

OVERSIZED CHECKLIST PAGES
These are great if you are ready to start putting originals in the pages instead of shrunken copies! As you can see, a full size Jeppesens 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 or the paper cutter to trim! 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 .......... $0.95

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 .......... $10.80

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 .......... $0.75

FLYBOYS CHECKLIST RINGS
Durable. Unbreakable. Multi-Purpose. Safe. Opaque nylon ring to hold your checklists and in-flight 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 closed, 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. 10 per pack.

Opaque ................. P/N 13-05621 .......... $13.95/ Pack
Black ....................... P/N 13-08644 .......... $13.85/ Pack
Red ................. P/N 13-08643 .......... $14.05/ Pack

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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™ 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. A blend of precision fogging and custom powered corrective lenses allows for the precise amount of the instrument panel viewing without further limiting visibility. Available Powers: 1.5, 2.0, 2.5

JEFFYHOOD

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

JEPP SHADES

Replaces 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/IFR flight transition. The high quality polycarbonate lens is impact resistant .................................. P/N 13-404311 .............. $24.95

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 let 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 13-05050 .................. $21.85

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 13-03020 .......... $21.75

IFR TRAINING GLASSES

Polycarbonate Lenses (UV Protected). Adjustable frames, High brow area occlusion forward and to the side. The Velcro™ strap fits comfortably and flip-up lens allows convenient IFR/IFR flight transition. The high quality polycarbonate lens is impact resistant .................................. P/N 13-404311 .............. $24.95

VIBAN

Weighs 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.

BEST HOOD:

IFR TRAINING HOOD

The ‘Best Hood’ is a sturdy paper hood which is amazingly simple yet very effective. It’s 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 .......... $21.95

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

IFR FLIGHT TRAINING GOGGLES

IFR flight training goggles with 0.2mm lens............. P/N 09-05847 ........... $9.95

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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"x7.75"; 74 pgs; Green cover. Comprised of 9 sections: Airframe Log, Engine Log, Installed Equipment Log, 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 13-32386 $19.95
AL-12P Soft Cover ........................................ P/N 13-04670 $12.65

CUSTOM-BUILT AIRCRAFT OWNERS & OPERATORS MANUAL

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

P/N 13-20100 ........................................ $49.90

ASA AIRCRAFT LOG BOOKS

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

SA-1 soft cover-hunter green: 7.25" x 4"; 64 pgs P/N 13-32375 ............... $6.95
SA-2 hard cover-Hunter Green: 7.75" x 5-1/4"; 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.

Single engine log.............................................. P/N 13-01946 $7.95
Multi-engine log................................................ P/N 13-01947 $7.95

PLANEVIEW AIRCRAFT FLIGHT LOGS

Compact and can be easily stored in a glove box or side pocket. You only have to use the categories that are important to you. The owner of a Piper Cub would not use the logbook to the extent a Piper Mirage owner/operator would, but it can easily accommodate the needs of both aircraft. Multiple pilots can use the book, so it can be used in an aircraft that is used in partnerships, flight schools, charter and many other operations where there are a number of different pilots flying the aircraft.

Single engine log.............................................. P/N 13-03163 $11.95

ASA AVIONICS LOG BOOK

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, restrictions, employment applications, school records, or insurance applications. Plastic coil binding stays open on current page. Soft cover, 7 1/4" x 4", 20 pages.

P/N 13-32370 ................................................. $4.95

ASA AMT LOG BOOK

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, restrictions, employment applications, school records, or insurance applications. Plastic coil binding stays open on current page. Soft cover, 6 1/2" x 11", 192 pages.

P/N 13-02313 ................................................. $18.95

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 $31.95

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 91 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".

P/N 13-12324 .............................................. $32.85

AERO PRODUCTS ENGINE LOGS

Permanent, hard cover, logs with leatherette cover printed in gold. Pages are updated to current FAA requirements. Generous line spacing. Overall dimensions: 5.75" x 7.75"; 74 pages; Red cover. Comprised of 9 sections: Engine Description, Installed Record, Life Limited Parts or Overhaul Requirements, AD or Factory Bulletin Compliance Record (propeller or rotor only), Repair and Inspection Record (propeller or rotor only), EF-5 Hard Cover ........................................ P/N 13-32390 $17.50
EL-13P Soft Cover ........................................ P/N 13-04670 $9.95

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 5-1/4") 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 $7.50
Propeller Log................................................ P/N 13-02255 $6.99

ASA AIRCRAFT FLIGHT LOG

The ASA Flight Log is the perfect tool for aircraft owners and 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 airplane without digging through those usually kept in the maintenance hangar ......... P/N 13-03163 ........................................ $11.95

ASA PROPELLER LOGBOOK

Record data for hub & blade inspections, repairs and alterations, airworthiness directives, & factory bulletins. Soft cover, Black, 7-1/4" x 4", 20 pages.

P/N 13-32370 ................................................. $4.95

ASA 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 13-12321 ........................................... $36.65

AIRCRAFT JOURNEY LOG

The Airframe Log (Section 1) is used to record details of airframe flight hours and related maintenance tasks.

Log Section 1 Airframe..................................... P/N 13-12324 $13.85
Log Section 2 Record Of Installations............. P/N 13-12326 $8.75
Log Section 3 Engine........................................ P/N 13-12327 $12.50
Log Section 4 Propeller.................................... P/N 13-12328 $12.50
Log Section 5 Component............................... P/N 13-12329 $7.95
Log Post Binder............................................. P/N 13-12324 $31.95

AIRCRAFT TECHNICAL LOG SECTION 1 AIRFRAME

The Airframe Log (Section 1) is used to record details of airframe flight hours and related maintenance tasks.

Log Section 1 Airframe..................................... P/N 13-12325 $13.85
Log Section 2 Record Of Installations............. P/N 13-12326 $8.75
Log Section 3 Engine........................................ P/N 13-12327 $12.50
Log Section 4 Propeller.................................... P/N 13-12328 $12.50
Log Section 5 Component............................... P/N 13-12329 $7.95
Log Post Binder............................................. P/N 13-12324 $31.95

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PILOT LOG BOOKS

**JEPPESEN PROFESSIONAL LOGBOOK**
This professional logbook 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 $28.75

**JEPPESEN 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 $34.80

**JEPPESEN 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 13-21732 $13.75

**LITTLE PILOT LOGBOOK**
The Little Pilot 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 you 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 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 to help the student in progressing towards the license.

P/N 13-12957 $19.95

**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 handwritten entries. Large Pages Allow for multiple entries per page. Pre-punched for easy 3 Ring Organizing.

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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. Perforated pages allow pilots to track experience, aircraft types, currency, medical dates, flight review, and more for quick reference. Hard cover, black, 11" x 8-1/2", 278 pages.

P/N 13-32392 $19.95

**GLEIM 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 pgs. 5"x8" P/N 13-01822 $9.95

**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 6 1/4" X 9 1/4".

P/N 13-17634 $18.95

**ASA STANDARD UAS OPERATOR LOG**
The Standard UAS Operator Log meets the needs of civilian, military, hobbyists, 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), remotely piloted aircraft (RPA), and drones.

Color: Grey

P/N 13-18544 $10.95

**DOGGY LOG BOOK**
An inexpensive way to record your dog’s adventures for posterity. Contains 22 pages of flight entries and one page for other notable “endorsements”. Measures 6" x 4.25" with a soft cover.

P/N 13-23688 $8.95

**FLIGHT SCHEDULE LOG**
Essential to smooth dispatching, features include: a replaceable perpetual aircraft/instructor entry panel; standby request section; and time in 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 13-02308 $39.75

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

P/N 13-02309 $21.95

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PILOT LOG BOOKS

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. Includes all instructor endorsements. Hard cover, black, 8” x 4 1/2”, 100 pages.
Black..............................................................P/N 13-32365 $9.95
Burgundy.........................................................P/N 13-32366 $11.95
Pink...............................................................P/N 13-18545 $11.95

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. Hard cover, black, 8” x 4 1/2”, 100 pages.

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 a 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. Softcover, Size: 4” x 7 3/4” Single..........................................................P/N 13-10445 $2.95
13 Pack ..........................................................P/N 13-10446 $38.35

ASA STANDARD EASA FCCOMPLIANT PILOT LOG
The EASA FCC-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 room to include personal info such as licenses held, date issued, license number, ratings, and aircraft type...P/N 13-21068 $11.95

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, make & model of aircraft being flown, aircraft identification, takeoff location, landing location, aircraft category (multi-rotor, single rotor, fixed wing), flight conditions, types of operating mode(s), time received, PIC time, number of flights, number of takeoffs and landings, and total duration of flight. There is also a column to record special notes 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 $2.50

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 3.25”.
P/N 14-00086 $6.85

CULHANE CANADIAN AME LOGBOOK
This AME personal logbook designed by Michael Culhane ATPL 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 fasten or pencil, hook and loop closure, clear pockets for license and medical certificate. 7.5”x12”; hold logbooks up to 6.5”x11”.
P/N 13-02311 $25.95

FLIGHT OUTFITTERS BUSH PILOT LOGBOOK CASE
These rugged logbook cases will have you thinking of taildraggers and dirt strips every time you log a flight. Durable canvas with thick, genuine leather closures smell as good as it looks. Fits logbooks up to 11x17. More organized than a binder and has plenty of pockets for organizing all of your important documents.
• Large Measurements: fits logbooks up to 11.5” long by 6.5” tall.
• Small Measurements: fits logbooks up to 9” long by 5” tall.
Large..........................................................P/N 13-23893 $29.95
Small..........................................................P/N 13-23894 $24.95

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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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

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
BRIGHTLINE FLEX B18 HANGAR FLIGHT BAG
A Flight Bag or 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 ..........$444.00

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 ..............$47.00

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 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 5". (Remember, it is a soft bag so it can expand slightly in every direction.) P/N 13-11982 ..............$70.00

BRIGHTLINE CENTER SECTION 11 INCH
The CS11 was designed primarily for pilots that frequently travel overnight. It will swallow several changes of clothes, a 13" laptop with room for binders and documents, or a small cooler. The CS11 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 ..............$123.00

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 ............$25.00

BRIGHTLINE SIDE POCKET CHARLIE
The Side Pocket Charlie is a pen pocket designed to hold pens and pencils in flight. In addition, it will hold eyeglasses and larger markers in the pocket behind the slots. P/N 13-11988 ..............$18.00

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 ..............$18.60

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 ..............$18.00

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, 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 ..............$36.00

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 ..............$66.00

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 ..............$62.00

BRIGHTLINE CENTER SECTION 11 INCH
The CS11 was designed primarily for pilots that frequently travel overnight. It will swallow several changes of clothes, a 13" laptop with room for binders and documents, or a small cooler. The CS11 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 ..............$123.00

BRIGHTLINE B2 COMPUTE BAG
The B2 Computes 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 drives, 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 .............$172.00

WWW.AIRCRAFTSPRUCE.COM Prices Subject to Change Without Notice - Valid as of June 1, 2023.
BRIGHTLINE FLIGHT BAGS

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 ...........$36.00

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 B0 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 ...........$139.00

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 ...........$66.00

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 ...........$59.00

BRIGHTLINE CENTER SECTION THREE
The Center Section Three offers 3 inches of storage depth and comes with a divider shelf attached to the side walls of the main compartment with Velcro. This shelf 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 CS3 is 13.5” tall, 10.0” wide, 4.0” deep.
P/N 13-21553 ...........$66.00

BRIGHTLINE CENTER SECTION FOUR
The Center Section Four offers four inches of storage depth and comes with a divider shelf attached to the side walls of the main compartment with Velcro. This shelf 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 ...........$66.00

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 to 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 13-19491 ...........$25.00

BRIGHTLINE ACCESSORIES

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935
**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 ............$337.00

**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 ............$193.75

**AERO SQUADRON LEATHER SHAVE KIT**
- Shave Kit
- Dimensions: 10" Length, 6" Height, 4" Width
- Color: Walnut
- P/N 13-07198 ............$118.75

**AERO SQUADRON LEATHER SHIELD TOTE**
- Man Bag w/Shoulder Strap
- Dimensions: 6-1/2" x 9" x 4"
- Color: Walnut
- P/N 13-07201 ............$143.75

**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 ............$64.75

**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 ............$56.80

**DELUX 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 ............$31.75

**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 flap 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 straps 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 repellant taffeta.

Black ............... P/N 13-11441 ....... $67.75
Gray ............... P/N 13-11440 ....... $67.75

**NORAL TRIPLE HEADSET BAG**
The Noral Triple Headset Bag is made of 1680 Denier Ballistic water repellent material. Its interior is fully padded and covered with the liner of water repellant taffeta.

Black ............... P/N 13-11430 ....... $79.85
Gray ............... P/N 13-11433 ....... $79.75

**NORAL FLYING CLUB BAG**
This bag is designed for all pilots, especially for the compact cockpit airline pilot, Military pilot 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, boards, 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. Made of 1680 Denier Ballistic water repellent material. Its interior is fully padded and covered with the liner of water repellant taffeta.

Black ............... P/N 13-11442 ....... $64.75
Gray ............... P/N 13-11444 ....... $64.75

**NORAL ATTACHE FLIGHT BAG**
This bag has two side pouches 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 are two removable pouches for GPS/Transceiver and two dividers. The 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 zippered pouch 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 repellant taffeta.

Black ............... P/N 13-11446 ....... $308.00
Gray ............... P/N 13-11448 ....... $306.00

**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 ....... $35.65

**NORAL PRIVATE PILOT BAG**
Fits all the goodies and gadgets a pilot needs and wants to carry. It has two extra large zippered headset pouches plus another zippered section to store pens, flashlight, fuel tester, E6B 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: 11" H x 10.5" W x 15.5" L.

Color: Black ............... P/N 13-00313 ....... $118.75

**NORAL MACH 1 FLIGHT BAG**
The Mach 1 flight bag is compact yet roomy. The bag features a wide 5" double zippered access flap with a pen and pencil holder. There are two end compartments 6"X10". On the front, a zippered 11"X 6" compartment. On the back is a 4"X 8"X 8" headset compartment which will accommodate the largest of headsets. The Mach 1 is made of US Made Nylon with 1/4" Foam Padded, 1000 Denier and is water resistant. It comes equipped with a GPS/Transceiver Pouch that can be worn on your belt. Also included is a shoulder strap and carry handle.

Dimensions: 15"LX11"WX10 1/2H
Black ............... P/N 13-04098 ....... $151.75
Gray ............... P/N 13-04092 ....... $151.75

**AIRCRAFT SPRUCE SINGLE HEADSET BAG**
Safe and convenient way to protect a single headset. Features foam padded single zipper compartment with convenient webbing handle. Made in USA.
Size: 7"L x 4"W x 9"H.
Color: Black ............... P/N 13-55010 ....... $19.95

**NORAL HEADSET FLIGHT 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 pouch with touch fastener and one pouch in the left side for Transceiver/GPS. The right side has holders for pen and small flashlight. The main compartment is H9" X W9" X G4.5".

Black ............... P/N 13-07468 ....... $45.95
Gray ............... P/N 13-11356 ....... $46.60

**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, flashlight, ID card and/or license etc. Inside the main compartment there is two removable pouches for GPS/Transceiver and two dividers. The dividers can be adjusted to different positions and are removable. To the main compartment is through a double zippper section. In the front of the bag is a large open pocket for easy access. 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 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 PRIVATE PILOT BAG**
Fits all the goodies and gadgets a pilot needs and wants to carry. It has two extra large zippered headset pouches plus another zippered section to store pens, flashlight, fuel tester, E6B 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: 11" H x 10.5" W x 15.5" L.

Color: Black ............... P/N 13-00313 ....... $118.75

**NORAL MACH 1 FLIGHT BAG**
The Mach 1 flight bag is compact yet roomy. The bag features a wide 5" double zippered access flap with a pen and pencil holder. There are two end compartments 6"X10". On the front, a zippered 11"X 6" compartment. On the back is a 4"X 8"X 8" headset compartment which will accommodate the largest of headsets. The Mach 1 is made of US Made Nylon with 1/4" Foam Padded, 1000 Denier and is water resistant. It comes equipped with a GPS/Transceiver Pouch that can be worn on your belt. Also included is a shoulder strap and carry handle.

Dimensions: 15"LX11"WX10 1/2H
Black ............... P/N 13-04098 ....... $151.75
Gray ............... P/N 13-04092 ....... $151.75

**AIRCRAFT SPRUCE SINGLE HEADSET BAG**
Safe and convenient way to protect a single headset. Features foam padded single zipper compartment with convenient webbing handle. Made in USA.
Size: 7"L x 4"W x 9"H.
Color: Black ............... P/N 13-55010 ....... $19.95

**NORAL HEADSET FLIGHT 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 pouch with touch fastener and one pouch in the left side for Transceiver/GPS. The right side has holders for pen and small flashlight. The main compartment is H9" X W9" X G4.5".

Black ............... P/N 13-07468 ....... $45.95
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P/N 13-15768 ....... $167.99

www.aircraftspruce.com 937
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 $77.95

ASA AVIATOR FLIGHT BAGS
The Pilot Flight 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 $49.95
Trip Flight Bag .... P/N 13-04058 $59.75

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 $9.90

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 Headset Bag (both sold separately). The second level interior compartment has a lanyard for keys, a zippered containment pouch, and plenty of pockets and slots for pens, pencils, flight computers and plotters. The spacious main compartment supports textbooks and manuals, and the checkpoint-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 $99.95

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. ipod compartment dimensions 15 x 11 x 1.5 inches. P/N 13-12895 $29.95

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 snap handle for quick, easy, and comfortable use. 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 13-16291 $114.75

AEROCOAST PRO EFB & INSULATED COOLER BAG
Top pocket for sunglass. 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 storage on travel. Outside dimensions: 15 x 11 x 10 inches. Laptop compartment dimensions 15 x 11 x 3 inches. P/N 13-12893 $129.95

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 $135.75

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 $185.75

WWW.AIRCRAFTSPRUCE.COM Prices Subject To Change Without Notice - Valid as of June 1, 2023.
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 13-02233 .............. $25.95

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 .............. $64.99

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 .............. $79.75

PORTABLE FOLDING LUGGAGE CART
3-Way portable luggage cart (folding cart) in black plastic with 37.5” extension handle. Load up to 66 lbs. Store flat. Moves items easily. Fits the Brightline Bag perfectly! To attach it to bag, place the front of the bag (pocket-side) flush against the telescoping handle. Take the handle and clip it into the front buckle. Wrap the handle around the telescoping handle and reachatch it to the opposite front buckle. The bag is now securely attached to the cart
P/N 13-10007 .............. $48.00

WWW-TSD-102 HEADSET BAG
This padded carry bag provides inexpensive insurance against headset damage. Featuring dual zipper openings, inside pocket sectional, computers, glasses, etc. Bag is constructed of black waterproof nylon with carry handle.
P/N 17-00231 .............. $15.95

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® closure secures radios and gear • Outside features a large compartment, two zippered end pockets for headsets, and two additional gusseted pockets
Specification: • Dimensions: 18”L X 10.5”H X 9”W • Weight: 2 lbs.
P/N 11-02277 .............. $57.95

LIGHTSPEED ADVENTURE FLIGHT BAG ORGANIZER
This Flight Bag insert is designed to help organize the interior of our Gann, Markham and Duke flight bags and is perfectly sized to hold your Zulu 3 ANR headset. This newest addition to the Flight Bag collection has a slimmer profile than its predecessor, with a fold-over flap
Dimensions: 11”W X 2.25”D X 9”H
P/N 11-19252 .............. $35.85

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.

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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 17-00098 .............. $77.75

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 doubles as a double zipper opening for easy access. Reinforced bottom. Constructed with durable PVC backed 600 denier poly. 10”x 5.5”x17” (black only).
P/N 13-00997 .............. $34.65

JEPPSENE 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 13-00880 .............. $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”X 12”H. Features top quality zipper along front side for easy access and location to mark your aircraft number on front.

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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 .............. $7.75
Blue Tag...........................P/N 14-02960 .............. $8.70

GOT YOUR SIX AIRCRAFT SEAT ORGANIZER FOR THE COCKPIT
Keep your phone, batteries, flashlight and sunglasses close at hand with the Got Your Six Aircraft Seat Organizer. Fits perfectly between any seat cushions that either touch or have up to 1/2” between them. Simply separate the aircraft seat cushions gently and slide the FlySix Aircraft Seat Organizer into place. Thanks to its integrated friction-fit pad, the organizer will stay in place very exactly where you place it! Works excellent for rear seats as well to help keep snacks, kid’s toys, or other items close at hand. Do your seats slide forward and back separately? No problem, the Got Your Six Aircraft Seat Organizer will still stay firmly in place. With its top-down design, you won’t feel the organizer between the two occupants, even in a smaller aircraft. The tray is 9” by 2”, with a 2.5” depth for storing your items. The vertical tab that holds the organizer firmly in place is 9” long by 3.5” tall, 5/8” in thickness including friction pad. “...............P/N 13-24330 .............. $35.00

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
FLIGHT OUTFITTERS FLIGHT BAGS

FLIGHT OUTFITTERS WAYPOINT BACKPACK
A good backpack keeps your most important gear organized, hauls everything you need for an adventure, and leaves your hands free to react to life as it comes at you. The Waypoint Backpack from Flight Outfitters does all that and more, whether you’re at the airport, the campsite, or the office—and you won’t look like you’re headed to math class. Dedicated pockets protect your electronics, including a padded compartment with access in flight when the bag is on the floor or under a seat. The bag also is loaded with organization pockets too, including an organizer pocket, soft-lined sunglasses pocket, and even a carabiner for hanging larger gear. Measures 16” x 14” x 9” ..........................P/N 13-23256 .............$129.95

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 laptop 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 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 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 .............$129.95

FLIGHT OUTFITTERS LIFT XL PRO 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. 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 13-22021 .............$129.95

FLIGHT OUTFITTERS BUSH PILOT FLIGHT BAG
This rugged flight bag offers a compelling mix of bush pilot styling and cockpit-centric features. Constructed of thick canvas with leather accents, this bag will quickly become a favorite at the airport and beyond. It has one main center compartment with two movable dividers, allowing you to customize your bag for your needs. Perfect for multiple headsets, or creating a spot for cockpit mounts and cameras. The plethora of external pockets keeps frequently used items close at hand. The inside has the signature Flight Outfitters orange lining, making it easy to find gear in a dark cockpit. Cleats on the bottom of the bag help keep the bag clean and dry. Rugged handle and a padded shoulder strap complete the leather-accented look. Measures 16” Height x 9” Depth x 10.5” Height ..............................................P/N 13-23892 .............$149.95

FLIGHT OUTFITTERS BUSH PILOT RUCKSACK
You don’t have to be landing float planes in Alaska to appreciate the Flight Outfitters Bush Pilot Rucksack. Constructed with thick canvas with leather accents, this backpack combines pilot friendly features with an outback style. External pockets keep frequently used items close at hand, while massive interior has plenty of room for larger gear. The thick, genuine leather accents provide a rustic feel and the heavy canvas material will only look better with age. The Bush Pilot Rucksack will quickly become your favorite bag. Measures 17” tall x 16” wide x 8” deep ..................................P/N 13-23561 .............$129.95

FLIGHT OUTFITTERS LIFT FLIGHT BAG
This sturdy bag has room for all the essentials, but won’t get in your way. Includes a large headsets 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 13-18161 .............$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 signature design features for your tablet and laptop, plus a large center compartment and plenty of exterior pockets. You can keep everything separated but easy to find. For further utility, the Folio Bag has a rear strap to securely attach it to your roll-aboard. .............................................P/N 13-22071 .............$129.95

FLIGHT OUTFITTERS SEAPLANE DUFFELS
These rugged, water-resistant duffel bags are made for remote fishing trips, cross-country flights in old taildragger, and any other adventures you can dream up. The huge center compartment can haul almost anything, from clothing to camping gear, and features a padded bottom layer for protection. Best of all, the Seaplane Duffel remains flexible enough to stuff into cramped luggage compartments. You can even roll it up and pack it in another bag. Choose from 40L or 60L. The 40L Duffel is perfect for a week-end getaway, 60L Duffel is useful in any situation to-wards your roll-aboard. Description ..............................Price
40L Duffel ..........................................................$49.95
60L Duffel ..........................................................$69.95
40L & 60L Combo ...............................................$99.95

FLIGHT OUTFITTERS LIFT MINI FLIGHT BAG
This slim bag is just right for new pilots, flight instructors, or any airplane where space is at a premium (we’re looking at you, Cessna 152). Based on the best-selling Lift Mini, this bag has a smaller design that will keep your most important gear organized and protected, including an iPad, headset, flashlight, and charging cables. Even with all the pockets filled, though, it still fits comfortably under a seat or on the floor so you can reach everything in flight. Signature orange interior makes it easy to find gear in the dark. Measures 11”h x 6.5”w x 8.5”d overall ......................P/N 13-23560 .............$69.95

FLIGHT OUTFITTERS SLING PACK
The unique sling pack design of this bag organizes a surprising amount of gear. Dedicated pockets for a tablet, sunglasses, and other items give you the storage you need for everyday use. Removable gun holster is included. Includes a carry handle and a single padded shoulder strap that can be adjusted for right or left shoulder use. 10”w x 6”d x 20”h ..........................P/N 13-22041 .............$57.95

FLIGHT OUTFITTERS FLIGHT CART
One of a kind patented design and function makes sure the Model 700 lives up to its moniker. An impressive 400lb capacity and generous loading tray (16”w x 13.5”) allows you to move anything from presentation and display equipment to a washer/dryer. Easy single-motion squeeze handle telescoples the cart open and closed. Sleek design and limited lifetime warranty put the Super Cart in a league of its own ..............................P/N 13-19651 .............$179.95

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
SKY HIGH GEMINI
The Gemini flight bag is a fully padded duffel 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 kneeboards. Everything is right where it should be - especially important during IFR flights. The center compartment has a double zipper opening with a padded quad-modular 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 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

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, 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 back of 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”

Black...........................................P/N 13-00186 $285.95
Grey............................................P/N 13-11375 $284.95

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 $37.75

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 repellent taffeta. Its interior is fully padded and covered with the liner of water repellent taffeta.

Grey...........................................P/N 13-11385 $128.75
Black...........................................P/N 13-01434 $128.75

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 repellent taffeta. Its interior is fully padded and covered with the liner of water repellent taffeta.

Black...........................................P/N 13-00262 $169.75

SCHLEYDEN LUGGAGE VERY 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, FK (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 zipper 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)
- Embroidery ...........................................P/N 13-14968 $579.00
- NQA 5 Year Warranty...........................................P/N 13-14973 $149.00

SCHLEYDEN LUGGAGE 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, FK (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 • 2 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)
- Embroidery ...........................................P/N 13-14970 $579.00
- NQA 5 Year Warranty...........................................P/N 13-14973 $149.00

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
**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 shearing pad. Cotton lining shows schematics of aircrafts. Color: Walnut. 23” Width x 13.5” Height x 6.5” Depth.  
P/N 13-18001 ...........$266.95

**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. Removable 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 ...........$52.75

**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 ...........$179.75

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**LIGHTSPEED ADVENTURE FLIGHT BAG - THE GANN**

Ready for a true journey, the Gann is imbued with the same insatiable thirst for adventure as the novelit is named for. Spacious but cabin-friendly, this carpenter-style bag is a great companion to the pilot who has everything — and likes to take it along.  
Dimensions: 16”W x 6”D x 13.5”H.  
P/N 11-13505 ............$299.00

**LIGHTSPEED ADVENTURE FLIGHT BAG - THE MARKHAM**

Ready for a true journey, the Gann is imbued with the same insatiable thirst for adventure as the novelit is named for. Spacious but cabin-friendly, this carpenter-style bag is a great companion to the pilot who has everything — and likes to take it along.  
Dimensions: 16”W x 6”D x 13.5”H  
P/N 11-13506 ...........$249.00

**LIGHTSPEED ADVENTURE FLIGHT BAG – THE DUKE**

You’ll be ready to grab and go when the mission calls – just like the RAF fighter pilot and writer for which this purpose-designed backpack is named, Neville Frederick Duke. This Second World War British test pilot and fighter ace chronicled his experiences in a multitude of writings. His bold career and lifestyle were the inspiration for Lightspeed to create the Duke, the leather backpack addition to Adventure Flight Bag collection. There’s plenty of space to pack your adventure essentials in this handmade black leather backpack featuring gusseted pockets on both sides – one with a security clasp for radio with transceiver, and one for a water bottle. The elegant top stitching is a trademark of the Adventure Flight Bag collection, as is the PVC bottom to help protect the bottom of the pack on muddy, dusty, grassy ramps. There are no metal feet to ensure the wing of your aircraft is protected as you load in for your next flight.  
P/N 11-19334 ............$269.95

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**GATOR WATERPROOF AVIATION CASES**

Gator Cases new line of water proof, dust proof, sand proof, crush proof, injection molded cases feature impact-proof light weight 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 relase 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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<tr>
<td>13-17861</td>
<td>GU-0705-03-WPNF</td>
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<td>7.4” x 4.9” x 3.1”</td>
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<td>13-17862</td>
<td>GU-0806-03-WPNF</td>
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<td>8.4” x 6” x 3.7”</td>
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<td>GU-0907-05-WPNF</td>
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<td>9.4” x 7.4” x 5.5”</td>
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<td>13-17864</td>
<td>GU-1309-03-WPNF</td>
<td>Black Waterproof Injection molded case, with NO FOAM</td>
<td>13.2” x 9.2” x 3.8”</td>
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<td>13-17865</td>
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<td>Black Waterproof Injection molded case, with NO FOAM</td>
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<td>GU-1510-06-WPNF</td>
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<td>17” x 11.8” x 6.4”</td>
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<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>
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<td>13-17869</td>
<td>GU-2014-06-WPNF</td>
<td>Black Waterproof Injection molded case, with pullout handle and inline wheels and NO FOAM</td>
<td>20” x 14” x 8”</td>
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<td>13-17870</td>
<td>GU-2015-06-WPNF</td>
<td>Black Waterproof Injection molded case, with NO FOAM</td>
<td>20.5” x 15.3” x 10.1”</td>
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<td>13-17871</td>
<td>GU-2217-08-WPNF</td>
<td>Black Waterproof Injection molded case, with pullout handle and inline wheels and NO FOAM</td>
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<td>13-17877</td>
<td>GU-2015-10-WPDF</td>
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<td>GU-2217-08-WPDF</td>
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<td>13-17879</td>
<td>GU-2217-13-WPDF</td>
<td>Black waterproof injection molded case with pullout handle, inline wheels, and DICED FOAM</td>
<td>22” x 17” x 12.9”</td>
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<tr>
<td>13-17881</td>
<td>GX-20</td>
<td>Cargo Case w/ Lift-Out Tray, Wheels, Retractable Handle</td>
<td>13.5” x 12.75” x 14”</td>
<td>$179.99</td>
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</table>
| 13-17882 | GxX-22 | Cargo Case w/ Lift-Out Tray, Wheels, Retractable Handle | 12” x 24” x 30” | $269.99

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
SEAT FOAM - FLIGHT SEATS

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 undetected circulatation, significantly reducing discomfort, even over long periods. In addition, Backsaver foam has excellent energy absorption properties, which have made it extremely useful for the U.S. space shuttle program and in military aircraft and helicopters. Pilots find that Backsaver cushions reduce discomfort and fatigue, even on missions of 8 hours or more. Aircraft Spruce now makes Backsaver foam available to the homebuilt and general aviation market.

Confor Foam Cushions

Temperfoam 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 polyfoam and it is flame resistant. It is an excellent product that will give your seats enduring comfort that you never thought possible. It is not a soft seat, but it adapts to you for pressure- point-free comfort that is really incredible. The best universal cushion for aircraft use is a 3" T/38/T41/T47 laminate.

SKWOOSH™ PILOT SEAT
SKWOOSH™ fluidized gel cushions elevate 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 1"H

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 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 ½"H

SKWOOSH™ LUMBAR CRADLE
The SKWOOSH™ LUMBAR CRADLE uses a cutting edge SPLIT LUMBAR DESIGN, TekPad® FLUIDIZED GEL and AIR-FLO3D breathable fabric to provide the best in back comfort. The "gel comfort-cradle" contours and cradles the back exactly as nature intended. SKWOOSH™ products are made in the USA and are guaranteed for performance and workmanship.

RAM SEAT WEDGE WITH PUMP
The Tough-Wedge™ is a mount that fits in the gap between the vehicle seat and center console or potentially a center seat. This allows for easy access and operation of a mobile device. The Tough-Wedge™ can also 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".

PROFLIGHT SEATS
Sit 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.

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' fits intended for smaller aircraft such as Cessna 150, 152, Piper Cherokee or Waco.

BLACK MAX COMFORTLITE 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
- Pivot down to make it easier to get in behind the seat on a tandem

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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>
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<tbody>
<tr>
<td>GlasAir I Pilot Left or Right Cushion Set</td>
<td>13-07474</td>
<td>$396.00</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.

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<tr>
<th>Description</th>
<th>Part No.</th>
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<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>
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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.

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<tr>
<th>Description</th>
<th>Part No.</th>
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<td>Lancair 320/360 Left Front Cushion Set</td>
<td>13-07478</td>
<td>$585.00</td>
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<td>Lancair 320/360 Right Front Cushion Set</td>
<td>13-07479</td>
<td>$585.00</td>
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<tr>
<td>Lancair IV Pilot or Co-Pilot Cushion Set</td>
<td>13-07480</td>
<td>$321.95</td>
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<td>Lancair Legacy Left or Right Cushion Set</td>
<td>13-07481</td>
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OREGON AERO® SEAT CUSHION RV-4
RV-4 Front & Rear Cushion Set un-upholstered cushion core

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<td>RV-4 Front Cushion Set</td>
<td>13-07482</td>
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<tr>
<td>RV-4 Rear Cushion Set</td>
<td>13-07483</td>
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OREGON AERO® SEAT CUSHION RV-6
RV-6 Left or Right Cushion Set un-upholstered cushion core.

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<th>Description</th>
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<td>RV-6 Left or Right Cushion Set 2”</td>
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<tr>
<td>RV-6 Left or Right Cushion Set 3”</td>
<td>13-07485</td>
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OREGON AERO® SEAT CUSHION RV-7
RV-7 Pilot or Co-Pilot Cushion Set un-upholstered cushion core.
P/N 13-07486 ......... $382.00

OREGON AERO® SEAT CUSHION RV-8
RV-8 Front and Rear Cushion Set un-upholstered cushion core.

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<td>RV-8 Rear Cushion Set</td>
<td>13-07489</td>
<td>$499.95</td>
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1 INCH PORTABLE UNIVERSAL SOFTSEAT® 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 available for individuals with limited headroom. 2” Cushion available for individuals who need raised up. See www.aircraftspruce.com for additional sizes.

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<tr>
<th>Color</th>
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<th>Straps</th>
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<td>Burgundy</td>
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<td>13-08614-1</td>
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<td>13-08614-2</td>
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<td>Beige</td>
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<td>Gray</td>
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<td>13-08614-6</td>
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<td>Charcoal</td>
<td>13-08611-6</td>
<td>$224.95</td>
<td>13-08614-7</td>
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<td>Black</td>
<td>13-08611-7</td>
<td>$224.95</td>
<td>13-08614-8</td>
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OREGON AERO® SEAT CUSHION VELOCITY
Velocity Cushion Set un-upholstered cushion core.

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<tr>
<td>Velocity Cushion Set</td>
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OREGON AERO® SEAT CUSHION ZENITH/ZENAIR
Zenith/Zenair Left and Right Cushion Set un-upholstered cushion core.

<table>
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<th>Description</th>
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<td>Un-upholstered CH701 Left cushion</td>
<td>13-07491</td>
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<td>Un-upholstered CH701 Right cushion</td>
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<tr>
<td>Un-upholstered CH601 Right cushion</td>
<td>13-07494</td>
<td>$301.95</td>
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OREGON AERO® SEATING SYSTEMS
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.
**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 the identical 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. Available for the following planes: Beechcraft: Baron B-55, E-55, B-58, Bonanza V-35 (A or B), A-33, A-36, F-33A, A36TC. Cessna: 150, 152, 172, 177, 180, 182, 185, 210, 310, 340, 402, 414, 421. Aero Commander: 500, 600, 900, Piper: Archer, Cherokee, Warrior Tomahawk. Specify year, make model and color choice when ordering. Car seat covers also available in same colors. Call for a price.

**Sheepskin Samples - Order a sample then return it for a full credit after you have selected a color and ordered your seat cover.**

**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>
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<td>Robinson</td>
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Prices Subject to Change Without Notice - Valid as of June 1, 2023.

WWW.AIRCRAFTSPRUCE.COM
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).

Attention: Products noted in “Application Guide” with an (*) are sold in pairs.

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 from 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).

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). Price: $660.00

ROSEN RED KNOB KIT
Red Knob Kit 09-701-KIT includes Red tensioning knob (90-779), 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. Price: $112.75

ROSEN LSA ACCORDION SHADES
Single: $249.95 Double: $297.95

Homebuilders Universal systems are specific order & built to your specs.

WWW.AIRCRAFTSPRUCE.COM Prices Subject to Change Without Notice - Valid as of June 1, 2023.
**SUN VISORS – SUN SHIELDS**

KENNON SUPER SUN SHIELDS

The most durable sun shield on the market has a clear polyester coating to protect the Plexiglass 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 1lb. 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 115°F degrees.

General Aviation: Single engine pistons (ie Cessna 172, Piper PA-28, etc)

Business: Twin turboprops, corporate jets (ie Beech King Air, Cessna Citation, etc)

General Aviation ........................................... P/N 7672 ............................. $243.95

Business Class ............................................ P/N 13-01071 ....................... $289.95

**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 ..................... $220.00

Cockpit Set .............................................. P/N 13-22382 ..................... $360.00

Full Set .................................................. P/N 13-22383 ..................... $360.00

**ADJUSTAVISOR**

The Adjustavisor, 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 (yellow) ........................................ P/N 13-03264 .................. $121.95

Clip-on (smoke) ........................................ P/N 13-03263 .................. $134.75

Suction (smoke) ........................................ P/N 13-03261 .................. $119.75

**ROSEN VANS RV 6-7-9 ARC SUNVISOR**

The Van’s RV 6-7-9 Sliding Canopy ARC Sunvisor System design provides Van’s RV 6-7-9 aircraft owners flexible, multi-axis sun attenuation, glare reduction and pilot comfort during standard cockpit flight operations.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tr>
<td>Rosen Vans RV 6-7-9 ARC Sunvisor Assembly</td>
<td>13-16034</td>
<td>$570.00</td>
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<tr>
<td>Rosen Vans RV 6-7-9 ARC Pilot Replacement Lens</td>
<td>13-16035</td>
<td>$97.95</td>
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<td>Rosen Vans RV 6-7-9 Co-pilot ARC Replacement Lens</td>
<td>13-16036</td>
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**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 .................... $238.95

**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 at dusk, after sunset, when scotopic vision is used. Hundreds of same class visors are field-approved and in use in the Comanche fleet.

P/N 13-07443 .................. $329.00

**ROSEN MONORAIL IPAD / IPAD MINI UNIVERSAL 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 of 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. Compliant and fully adjustable. Quick and easy stowage against the headliner.

Large Cases ........................................ P/N 13-20666 ................ $295.00

Standard Cases/Bare ...................... P/N 13-20667 ................ $308.00

**SUN-FOIL AIRCRAFT SUNSCREENS FOR TURBOPROP AND BUSINESS JET AIRCRAFT**

- 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.

P/N 13-22387 .................. $552.00

Prices Subject to Change Without Notice - Valid as of June 1, 2023.

WWW.AIRCRAFTSPRUCE.COM
### 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 coating, 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 98% 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>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>9.5”x6”</td>
<td>13-09666</td>
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<td>11”x6”</td>
<td>13-09665</td>
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<tr>
<td>16”x9”</td>
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<td>$40.90</td>
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### 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 light seal which fits snugly in the cowl. This 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 rotation will remove them for you. These cowl plugs install easily and comes 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.

<table>
<thead>
<tr>
<th>Color</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>White</td>
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<tr>
<td>Black</td>
<td>P/N 13-04188</td>
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### 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” flag.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tr>
<td>C-172 (1965+)</td>
<td>P/N 13-02625</td>
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<td>C-182 (1972.5 - 1989)</td>
<td>P/N 13-02630</td>
<td>$62.75</td>
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Universal kit w/square inlets (Sqr blocks you cut to fit) P/N 13-02645...$56.75/pr

### RAM MOUNT DARK GREEN SUN VISORS
The precision laser cut cast acrylic 8”x13” 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 glare in a variety of applications. The RAM-B-166-326-VIS-G1U 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 co-pilot use. Ball and Suction Cup ........................................... P/N 11-13584...$69.75

1” Ball Only .................................................. P/N 11-14911...$39.50

### 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 13-21078...$79.95

### ARMOUR GUARD DARK GREEN POLYCARBONATE VISOR
• Premium Optical Clarity • Meets or exceeds ANSI Z87.1, CE, and other international Certification specifications • Universal Compatibality • Made in USA • Size: 9 x 15.5 x 0.04. P/N 12-05517............$5.90

### FLEXIBLE COCKPIT SUN SHADES
The CRAZEDpilot 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 windowscreen 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/folds 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 11-13318............$7.80

### PRICE LIST
Prices Subject to Change Without Notice - Valid as of June 1, 2023.

### 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. P/N 13-08666............$8.95

6X9 .......................................................... P/N 13-08667............$9.95

9X12 .......................................................... P/N 13-08668............$7.95

### 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”

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### BRUCES INSULATED HANGAR BLANKET
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. 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 OEC 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.

<table>
<thead>
<tr>
<th>Size</th>
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<tbody>
<tr>
<td>High Wing, 2 Place.</td>
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<td>Low Wing, 2 Place</td>
<td>P/N 13-21102</td>
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<tr>
<td>Low Wing, 4 Place</td>
<td>P/N 13-21104</td>
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### FLEXIBLE SUNSHADES
FLEXIBLE SUNSHADES
- Universal Tint - Traveling Plane Kit
- Pilot Armor General Purpose Sunshades
- Sun Guard Slap On Sun Visor
- Just Plane Tint Slap Shade
- Armored Guard Dark Green Polycarbonate Visor
- Custom Fit Cowl Plugs
- Universal Sun Visor - Dark Green
- Ram Mount Dark Green Sun Visors
- Brucers Insulated Hangar Blanket
- Flexible Cockpit Sun Shades

WWW.AIRCRAFTSPRUCE.COM
JUST PLANE SHADES

Just Plane Shades window shades are reusable airplane window shades made from the darkest vinyl tint available. Installed directly onto the inside window of the aircraft, this product will cut glare from the sun, block out 90% of UV rays and keep the cockpit significantly cooler while flying. Each piece is custom cut for it’s specified aircraft model. Developed by a commercial airline pilot, Just Plane Shades is easy to use, packs up small and goes with you from flight to flight. To apply there is no need for pre-prep or adhesives. After use just peel it off, fold it up and take it with you! Fly cool and glare free!

JUST PLANE SHADES FOR BEECHCRAFT 36 SERIES - BONANZA

<table>
<thead>
<tr>
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<tr>
<td>Cockpit - Left</td>
<td>13-24076</td>
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<td>Cockpit - Right</td>
<td>13-24077</td>
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<tr>
<td>Row 1</td>
<td>13-24078</td>
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<td>Row 3</td>
<td>13-24080</td>
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JUST PLANE SHADES FOR MOONEY M20

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<td>Cockpit - Left</td>
<td>13-24075</td>
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<tr>
<td>Cockpit - Right</td>
<td>13-24076</td>
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<tr>
<td>Windshield (Left or Right)</td>
<td>13-24079</td>
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JUST PLANE SHADES CUSTOM CUT WINDOW SHADE

This custom option allow a window shade to match your exact application. Provide a tracing and a reusable airplane window shade will be made from the darkest vinyl tint available to match your exact need. Installed directly onto the inside window of the aircraft, this product will cut glare from the sun, block out 90% of UV rays and keep the cockpit significantly cooler while flying. Each piece is custom cut for it’s specified aircraft model. Developed by a commercial airline pilot, Just Plane Shades is easy to use, packs up small and goes with you from flight to flight. To apply there is no need for pre-prep or adhesives. After use just peel it off, fold it up and take it with you! Fly cool and glare free!
P/N 13-24130 ........... $30.00

JUST PLANE SHADES FOR CESSNA 172

<table>
<thead>
<tr>
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<th>Part Number</th>
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</thead>
<tbody>
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<td>Complete Set</td>
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<td>13-24111</td>
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<td>Rear - Right</td>
<td>13-24112</td>
<td>$35.00</td>
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<tr>
<td>Roof (Set of 2)</td>
<td>13-24113</td>
<td>$35.00</td>
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JUST PLANE SHADES FOR PIPER PA-31 NAVAJO

<table>
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<tr>
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<td>Cockpit</td>
<td>13-24173</td>
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<tr>
<td>Row 1 or 2</td>
<td>13-24174</td>
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<td>Row 3</td>
<td>13-24175</td>
<td>$35.00</td>
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<tr>
<td>Row 4</td>
<td>13-24176</td>
<td>$35.00</td>
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JUST PLANE SHADES FOR BOMBARDIER AIRCRAFT

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<tr>
<td>Challenger 300</td>
<td>Cockpit</td>
<td>13-24101</td>
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<tr>
<td>CRJ</td>
<td>Side Window</td>
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<tr>
<td>CRJ</td>
<td>Windshield</td>
<td>13-24104</td>
<td>$24.95</td>
</tr>
</tbody>
</table>

JUST PLANE SHADES GENERIC SHADE SQUARES

These generic window shades measure 13" x 13" and allow you to use the darkest vinyl tint available in any fitting application. Pack includes 2. Installed directly onto the inside window of the aircraft, this product will cut glare from the sun, block out 90% of UV rays and keep the cockpit significantly cooler while flying. Each piece is custom cut for it’s specified aircraft model. Developed by a commercial airline pilot, Just Plane Shades is easy to use, packs up small and goes with you from flight to flight. To apply there is no need for pre-prep or adhesives. After use just peel it off, fold it up and take it with you! Fly cool and glare free!
P/N 13-24140 ........... $25.00
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 corners are trimmed to match the colors of the airplane. The airplane’s registration number can be imprinted onto both sides of 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 windscreens and acrylic finishes. Other colors are available. Please contact us for availability and price. Light weight material available.

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BRUCES CUSTOM WING COVERS

The Wing Covers are a perfect solution to protect your paint from sun damage and prevent winter frost, snow, ice buildup, 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. Hijl Protection version can be made. Set of 2.

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**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 year 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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### BRUCE’S CUSTOM HORIZONTAL STABILIZER COVERS

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### BRUCE’S CUSTOM ENGINE COVERS

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.

WWW.AIRCRAFTSPRUCE.COM
BRUCE’S CUSTOM COVERS

BRUCES CUSTOM HEATSHIELDS

Heatreasheld 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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BRUCES CUSTOM ENGINE INLET PLUGS

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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<td>Bruc Engine Inlet Plug Cessna 182 Skylane</td>
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<td>Bruc Engine Inlet Plug Cessna 206 Stationair</td>
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<td>Cirrus SR20</td>
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<td>Grumman AA5</td>
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<tr>
<th>Description</th>
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<td>Lancair Columbia 300,350,400</td>
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<td>Lancair Models 320,360</td>
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<td>Lancair IV</td>
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<td>Mooney Early M20 Series</td>
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<td>Mooney 201, 205, 231, 252 &amp; MSE</td>
<td>13-15339</td>
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<td>Piper PA-24 Comanche</td>
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<td>Vans Aircraft RV-88A</td>
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<tr>
<td>Vans Aircraft RV-99A</td>
<td>13-15452</td>
<td>$133.75</td>
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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 dust and dirt to attach to pad possibly 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 in various dimensions are subject to change. +/- 1/8 tolerance Service range: -20F - 200F. Fuel port: 5” diameter. Durable impact absorbing polyurethane. Non-Marking and Non-Abrasive, UV stable. Exposure to direct sunlight will cause color fading. Fuel Resistant and chemical resistant with the exception of MEK.

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 tank 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” from your calibration. It’s shipping tube doubles as a “Vented Storage Tube”. This allows any remaining fuel to evaporate between your calibration. It’s design gives consistent readings even when the fuel in the tank is sloshing around. It’s upper and lower rings aide in handling. Large Easy-to-Read numbers observed in daylight or darkness under all weather conditions, reflective streamer stands out equally well in the aircraft interior. 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 wing aircraft. Two sizes available. Material is extremely light, high impact plastic tubing with aluminum rings.

WING MAT

This navy blue carpet can be placed on the wing prior to boarding which will protect both the wing and the aircraft interior. 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 wing aircraft. Two sizes available. Material is extremely light, high impact plastic tubing with aluminum rings.

FUELING / ENGINE ACCESS WING MATS

Please specify color when ordering: Red, Light Blue, Royal Blue, Black, Green, Yellow and Safety Orange. Features a protective and durable impact absorbing urethane-polymer • UV • Fuel resistant • Chemical resistant • Non-marking • Non-abrasive • Exceeds FAA and military standards • -20ºF to 200ºF service integrity • Standard 5-inch diameter service hole • Special design and price is subject to availability. Material is extremely light, high impact plastic tubing with aluminum rings.

FUEL MATS – FUEL INDICATORS

Description Usable Fuel Tank Size Part No. Price

<table>
<thead>
<tr>
<th>Description</th>
<th>Usable Fuel Tank Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>Cessna 150-152</td>
<td>12.5 Gal</td>
<td>05-12341</td>
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<td>Cessna 172-A</td>
<td>18.5 Gal</td>
<td>05-12343</td>
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<td>Cessna 172</td>
<td>19 Gal</td>
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<td>$29.50</td>
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<td>Cessna 172</td>
<td>20 Gal 13-24026</td>
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<td>Cessna 172</td>
<td>21 Gal 05-12345</td>
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<td>Cessna 172 N-Q (Long Range)</td>
<td>25 Gal 05-12346</td>
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<td>Cessna 172 R-S</td>
<td>26.5 Gal 05-12348</td>
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<td>Cessna 177</td>
<td>25 Gal 05-13076</td>
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<tr>
<td>Cessna 177 Cardinal A-B (Including RG)</td>
<td>30.5 Gal 05-13550</td>
<td>$26.95</td>
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<tr>
<td>Cessna 182 A-D</td>
<td>30.5 Gal 05-13551</td>
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<td>Cessna 182 P</td>
<td>30 Gal 05-13078</td>
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<td>Cessna 182 Q</td>
<td>37 Gal 05-13522</td>
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<td>Cessna 210 G-N (Including Turbo)</td>
<td>44.5 Gal 05-13533</td>
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<td>Cessna 182 T</td>
<td>43.5 Gal 05-13555</td>
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<td>Grumman-American General AA (AG)-SA-25</td>
<td>26.3 Gal 05-1356</td>
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<td>Piper PA 12</td>
<td>19 Gal 05-13081</td>
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<td>Piper PA 22 160</td>
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<td>Piper PA 28 151-181</td>
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<td>Piper PA 28 150-180</td>
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<td>Piper PA 28 200-235B</td>
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<td>Piper 34 200 Seneca II</td>
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<td>RV RV-6A</td>
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<td>RV RV-7</td>
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<tr>
<td>RV RV-10</td>
<td>31 Gal 05-13086</td>
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Cessna 182 High-Wing Fuel Vent Screen

Fuel flow to your aircraft’s engine can be compromised by insects or debris entering fuel tanks. This remove-before-flight Fuel Vent Screen prevents contaminants from obstructing or contaminating the fuel system. The attached self-draining feature 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” 3/8 Inch........P/N 13-10437 $21.60 1/2 Inch........P/N 13-12390 $18.75

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 uncalibrated for custom calibration to home built tanks. These Indicators allow an accurate check of fuel levels on board fuel level indicators and eliminate the guess work.

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 have services offered 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 aircraft fuel gauges working & accurate?

Application Part No. Price

<table>
<thead>
<tr>
<th>Application</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Cessna 152 (standard 12 gal. tanks)</td>
<td>13-00443</td>
<td>$14.50</td>
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<tr>
<td>Cessna 172 (standard 19 gal. tanks)</td>
<td>13-00442</td>
<td>$13.95</td>
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<tr>
<td>New Cessna 172 Skyhawk (26.5 gal.)</td>
<td>13-01468</td>
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<tr>
<td>New Cessna 182 Skylane (43.5 gal.)</td>
<td>13-01469</td>
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<tr>
<td>Cessna 182LR (42 gal. Long range tanks)</td>
<td>13-00441</td>
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<tr>
<td>Universal for any aircraft, w/graph &amp; calibration chart</td>
<td>13-00430</td>
<td>$13.95</td>
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<tr>
<td>Universal XL Fuel Gauge (16” long)</td>
<td>13-00940</td>
<td>$19.75</td>
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<tr>
<td>Universal Gauge 26”</td>
<td>13-11189</td>
<td>$21.95</td>
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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 slip 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 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 …P/N 13-17631 ………..$7.95

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 standard hose nosel that is unique for preflight inspection and compact to store in your flight bag or clip to your belt. Fuel Tester with Strainer, Stall Horn Tester, Dipstick Wiper, Red/White Flashlight, Phillips/Flathead Screwdriver, and CheckList Reminder Card ………..P/N 05-15254 ………..$49.95
COWL PLUGS - AIRCRAFT COVERS

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 remove before flight streamer. Heavy duty cross 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 pitot tube cover.
Single engine /P/N 13-01742 $110.75
Twin engine /P/N 13-01743 $193.75

PROPELLER SLINGS EXHAUST COVERS
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 $123.75

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 $123.75/eng

REDWING TRAILING EDGE PROTECTIVE FOAM
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 protecting 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, water, or oils. Furnished in 3ft. sections which can be easily cut to smaller sections.
P/N 13-02566 $34.85

JET ENGINE COVERS
Made of extremely durable, water-proof and fire resistant Herculite, 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

WICKSHELD
Warning type cover for aircraft, wire/rod & "whisker" type. Static Wicks. These are very simple to use, economical, and conveniently packaged 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 $38.70

STEARMAN COCKPIT DUST AND RAIN COVER
One of the problems with traveling in your Stearman is the lack of space to store necessities. 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)
• Makes instruments more visible, and the cockpit more comfortable.

<table>
<thead>
<tr>
<th>Fits</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<td>RV-8</td>
<td>Special 15&quot; W x 46&quot; L</td>
<td>13-05657</td>
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<tr>
<td>RV-6, 6A, 7, 7A, 9, 9A</td>
<td>Standard RV Tip-Up</td>
<td>13-05658</td>
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<td>RV-6, 7, 9</td>
<td>Super RV Slider - 34&quot; W x 35&quot; L</td>
<td>13-09600</td>
<td>$267.95</td>
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<td>RV-6, 6A, RV-7, RV-7A, RV-9, RV-9A, RV-14, Lancair 320, 360, Pulsar, Pulsar III, Sonex, Swift</td>
<td>Designed for the RV-14, 35'Wx 25' L</td>
<td>13-20710</td>
<td>$236.95</td>
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<td>Arion Aircraft – Lighting, Breezer, Cirrus, Classic Sport – S-18 &amp; S-18T, Europa Evektor – Eurostar, Glasair-320 and 360 Lancair – Legacy, Mustang II Sequoia Falco - F3L, Skylark Sting Sport, Texan, Zenith - Zodiac</td>
<td>Large Universal for larger clear bubble canopies with no center structural members 34&quot; W x 35&quot; L</td>
<td>13-05660</td>
<td>$273.00</td>
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<tr>
<td>Air Tourer AESL T-6, Alisport LLC Sailplane, American Champ 8GGBC, Apis INC Sailplane, Citabria, Cozy III &amp; IV, Dynamic WTP, Evektor Sportstar, Fasanation DX</td>
<td>Custom made to order shades</td>
<td>13-05661</td>
<td>$435.00</td>
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</tbody>
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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 $46.60

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 tips, gear doors, wing flaps (in the lowered position), wing tips, and dorsal antennas. Trisoft can be used on personal aircraft, corporate aircraft, commercial aircraft, military aircraft and helicopters.
P/N 13-06003 $27.90

Koger Sunshade...

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>UV, water, or oils. Furnished in 3ft. sections which can be easily cut to smaller sections</td>
<td>$34.85</td>
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</tr>
</tbody>
</table>

www.aircraftspruce.com

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
PLANE SIGHTS REMOVE BEFORE FLIGHT

PLANE SIGHTS PITOT TUBE COVERS
Exremely obvious, very durable, and weather resistant pitot tube covers for every aircraft.

**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. Large sewn-on Velcro tabs keep it secure in place under all conditions. Weight: 0.14 lb if length of the tube exceeds 6.75” and the diameter exceeds 7/8”, then the Universal Pitot tube cover would be a better choice. As seen on the 2009 AOPA ‘Let’s Go Flying’ Cirrus SR22......P/N 13-06511 .........$24.95

**UNIVERSAL 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. Universal covers fit any length of tube from the smallest to the largest made. The versatile hook/loop Velcro strap with sewn-in rubberized trim allows the cover to be quickly and securely fastened to the pitot tube. Weight: 0.00 kg The inside diameter of the cover is 7/8”. Works with a variety of aircraft including: Cessna, Beechcraft, Cirrus, Diamond, Grumman, Gulfstream, Lear, and many others. Weight: 0.15 kg Fits Piper, Katana, some Rockwell, late Grumman, Lake 250, and most other aircraft 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 2008 AOPA “Got Your Glass” sweepsstakes aircraft) Weight: 0.15 kg Fits Piper, Katana, some Rockwell, late Grumman, Lake 250, and most other aircraft with a blade type of pitot tube.............P/N 13-06516 .............$24.95

**PITOT TUBE PLUG (5/8”)** - Aircraft Type: Piston Powered Plane 5/8” inside diameter vented pilot 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, and Cessna Cheyenne aircraft. Weight: 0.04 kg 5/8” x 0.625” (15.875mm) ID x 1.85” (38.10mm) P/N 13-06016 .............$17.95

**PITOT TUBE PLUG (3/4”)** - Aircraft Type: Piston Powered Plane. 3/4” inside diameter vented pilot 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, 178, 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 .............$17.95

**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 weather conditions. The kit comes complete with three different sized pilot tube plugs, a unique strap-on hook/loop Velcro hook, and two rust-resistant coated triangle hooks. WARNING: CHECK WITH YOUR AME AND CONSULT YOUR OWNERS MANUAL BEFORE USING A FUEL VENT PLUG...............P/N 13-06020 .............$17.95

**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 per aircraft 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 13-06830 .............$49.95

**STATIC WICK COVERS** Prevent hangar rash and broken static wicks

**STATIC WICK COVER SET (TUBE STYLE 7”)** Aircraft Type: Jet. A lower priced alternative to Static Wick Markers. They protect 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 pitot cover, 0.310” x 0.450” x 7.000” Long. * Shock cord lanyard not included. P/N 13-06888 .............$54.75

**STATIC WICK COVERS (SMALL ID X7”)** Aircraft Type: Jet. Installed and removed in seconds, Static Wick Covers help prevent delays and inconveniences due to hangar rash. Extremely obvious and very durable Static Wick Covers make these vulnerable parts highly visible by day or night. Slide these round style covers for 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 2-11SC-1, MIL-9129D, DG17770. Fits Bombardier, Hawker/Beechcraft and others.............................P/N 13-06777 .............$44.90

**STATIC WICK COVER (SQUARE STYLE)** Aircraft Type: Jet These Square Style Static Wick Covers protect, the yellow pronged square 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 Includes three (3) Static Wick Covers per package Square Poly, 0.75” x 0.25”ID x 0.30”L (in stock) (in stock) (in stock) (in stock). Standard two year warranty applies. * Shock cord lanyard not included..........................P/N 13-06677 .............$47.65

**UNIVERSAL AIRCRAFT MARKER** Aircraft Type: Piston Powered Plane. Highly reflective markers make vulnerable wing and elevator tips clearly visible under all conditions, and are required before takeoff. Here’s a lower priced alternative to Static Wick Markers. They protect static wicks from damage on the ground and make wing/elevator tips more obvious, thereby preventing hangar/ramp rash. Slide these rectangle covers on for a tight weather resistant fit. Weight: 0.02 kg Includes three (3) Static Wick Covers per package Reflective Streamer, 0.75”x0.25”x0.30”L (in stock) (in stock) (in stock). 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 .............$16.95

**HI VISIBILITY BOOTIE PITOT COVER** Features: • Long Life Clip - Hook and loop closure • Bright Yellow Sock - More visible after aircraft finishes • Softer Vinyl Banner - Less abrasive to paint and aluminum • Bright White Labels - High visibility lettering, Fuel resistant (won’t chip off). Non-abrasive. Applications: • Specially designed for use with pylons mounted on aircraft. Fits to Noise, Fuselage, or under wing locations • VL jets, and regional service airline aircraft (Boeing, Beechcraft, Bombadier, Cessna Jets, Cirrus, C1J, Piper, Grub, Grumman, Gulfstream, Lear, Embraer, Hawker, Satabong, Swearinger, and others) • With “arrow head” type Pitot Tubes (North American, most AT-6, SNU, Vulte BT-13, Grumman F4F Wildcat, F6F Hellcat, B-25 Mitchell, P-47 Thunderbolt, and many others) • Tap Probes • Dynon Angel of Attack - Pitot Proves, Pylon mount • Rosemount Pitot Probes. P/N 13-12349 .............$12.75

Prices Subject to Change Without Notice - Valid as of June 1, 2023.

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UP and then wrapped around virtually ANY structural member of the prop blade only, these banners are split at the bottom and are held together with velcro. This allows the banner to be opened and closed at any time. On displays at shows or events, simply slip over the prop blade only, these banners are split at the bottom and are held together with velcro. This banner allows the prop to be opened up and then wrapped around virtually ANY structural member of the aircraft. Daly’s Banner is tear resistant.\
\
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.

ASA PITOT TUBE COVERS
Fit snugly over standard aircraft pitot tubes, and are vented to prevent pressurization of the pitot-static system. Critical to safe operations, the cover keeps dirt, contamination, and insects from entering the pitot tube. A “remove before flight” streamer features a grommet for a C ring to attach to anywhere on the aircraft. High visibility, fire resistant material.

TERMS & CONDITIONS
All purchases on this website are subject to our Terms and Conditions located on the bottom of the website. Each product page provides specific terms and conditions for that product. The website terms and conditions are the governing terms and conditions for all products on the website. By purchasing any product on this website, you agree to be bound by these terms and conditions. If you do not agree to these terms and conditions, please do not purchase any products on this website. If you have any questions about these terms and conditions, please contact us at 1-800-555-1212.
**PITOT TUBE COVERS – EZ FLAP**

**REMOVE BEFORE FLIGHT STREAMER**

- 2-1/4” wide, 17” long red poly-ester fabric with white writing: “Remove Before Flight”
- P/N 13-01458 ..................$6.50

**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 red anodized aluminum easily conforms to virtually any surface contour
- Adjustable for attaching lever cups on or around decals and pin stripping
- Installed at temperatures from -20°F to 110°F

**SPC-101**
- P/N 13-06723 ..............$225.95
- P/N 13-06724 ..............$250.95

**SPC-102**
- P/N 13-06396 ..............$11.50
- P/N 13-06398 ..............$12.75
- P/N 13-06399 ..............$10.95

**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 ..............$10.95

**MODEL 4935**
- Bootie Type, all Naugahyde, white boot, red with white printing, 2” x 16”
- P/N 13-06397 ..............$11.50

**STREAMERS**

**5611 “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 ..............$13.85

**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 ..............$12.75

**4604 “REMOVE BEFORE FLIGHT”**
- 2” x 16”, white printing on red reinforced vinyl with grommet and ring
- P/N 13-06396 ..............$5.85

**SAFEWAY PITOT TUBE COVER**

- Safeway SFW 1000 Pitot Tube Cover - 1 Inch
- P/N 13-23362 ..............$9.95

**REMOVE BEFORE FLIGHT WICK-TECTOR**

- Before Flight Pitot Tube Covers. 10 Inch flag. 1-1/2” red vinyl sleeve.
- Note: 3 in a pack
- P/N 13-23367 ..............$27.50

**REMOVE BEFORE FLIGHT WICK-TECTOR**

- Note: Only available in a single unit.
- Safeway SFW 7101-5i Wick-Tector 5”
- P/N 13-23363 ..............$11.55
- Safeway SFW 7101-6i Wick-Tector 6”
- P/N 13-23364 ..............$11.50
- Safeway SFW 7101-7i Wick-Tector 7”
- P/N 13-23366 ..............$12.50

**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 Naugahyde 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:

- Beech: Bonanza B35, Bonanza B36, Baron B58
- Cessna: Cardinal 177, Centurion 210, Corvallis 350
- Cirrus: SR20, SR22
- Grumman: American AA5
- Piper: Comanche PA24, Cherokee Six PA32
- Lancair: IV, Columbia 300, Columbia 350, Columbia 400, Lancair 320, Lancair 360
- Mooney: Ovation, M20, 201, 205, 231, 252 & MJ20 MJE

P/N 13-15994 ..............$43.80

Pitot Tube Cover for the following applications:

- Cessna: 150, 152, 172, 175, 180/185, Skylane, 182 Skyplane, and 206 Stationair.
- Grumman AA1

P/N 13-15995 ..............$43.50

Prices Subject to Change Without Notice - Valid as of June 1, 2023.

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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

ROSEMONTE
temperature probe cover
High Quality Cover for Temperature Probe
Applications:
- Cessna Citation Bravo: 650
- Learjet: 31, 35, 40, 45, 70, 75
- Hawker: 4000

PITOT COVER FOR PILOT 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 ............$24.50

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 ............$25.60
Right........../P/N 13-18384-R ............$21.85

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
Left........../P/N 13-18386 ............$31.90
Right........../P/N 13-18386-R ............$31.85
Learjet: 40, 45, 60, 70, 75
Bombardier Challenger: 300, 601, 604
Left........../P/N 13-18387 ............$34.50
Right........../P/N 13-18387-R ............$26.95

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 ............$68.75

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 ............$32.65

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 ............$33.50
Right.............../P/N 13-18393-R ............$28.95
Angle of Attach Covers
Left.............../P/N 13-18392 ............$26.70
Right.............../P/N 13-18392-R ............$21.95

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 ............$29.95
Red Orange.............../P/N 13-21614 ............$29.95

PLANE SIGHTS FLASHFLAG
This 4x32” flag is designed to meet the abrasion resistance, weatherability, and self extinguishing/ flame 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 gear 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 ............$28.35
4” X 36” ........../P/N 13-21622 ............$36.95

REMOVE BEFORE FLIGHT PITOT TUBE COVERS
Before Flight Pitot Tube Covers. 5/8” or 3/4” ID Vinyl Cover.
5/8” ........../P/N 05-12655 ............$10.95
3/4” ........../P/N 05-12660 ............$25.95

UNIVERSAL REMOVE BEFORE FLIGHT PC-100U PITOT COVER
Before Flight Pitot Cover. Universal size, All Vinyl. - Fits All Tube Type Pitots ........../P/N 05-12660 ......$25.95

REMOVE BEFORE FLIGHT
Before Flight 10” Flag with Ring ........../P/N 05-12661 ......$8.50

REMOVABLE FLIGHT PITOT COVER
Before Flight Pitot Tube Cover. 6” Red Vinyl Sleeve Fits D.G. # 16920. 16” Flag. Wick-Tector (3/Pack) ........../P/N 05-12655 ......$34.00

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
UNIVERSAL CONTROL LOCK
This Control Lock is of all 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. It's virtually impossible to try to take off with this lock in place, as you cannot get your feet on the Pedals to taxi aircraft and keep the elevator in the nose down position. P/N 13-13075 $395.00

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.
Mooney........................................P/N 13-03164 $95.75
Cessna 210........................................P/N 13-03165 $95.75
Cessna 206........................................P/N 13-03166 $95.75
Skymaster......................................P/N 13-03167 $95.75

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, over seat track. Approved for: Cessna 150, 152, 170, 172, R172, for use with Cessna seat track A.D. #87-20-03. Installs easily, sliding in gap 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 13-11815 $47.90

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 13-11815 $47.90

YOKO LOCKS
Yoke lock is offered in three different sizes. 3/16”, 1/4”, 5/16”. High Visibility (and good looking) 2-color, raised-print yoke lock: For all yoke locks using 3/16”, 1/4”, 5/16”. All 3 are the same, except for the size of the Pin, which varies based on what your plane uses.
List of planes that typically use 3/16” and 1/4” pint coming soon.
For all yoke locks using 5/16” drop pin includes most Bonanzas.
3/16 inches ........................................P/N 13-24053 $59.95
1/4 inches ..........................................P/N 13-24054 $59.95
5/16 inches .........................................P/N 13-24055 $59.95

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.

HUSKY CONTROL LOCK CL110 SHORT
Eligible Aircraft Models: Husky only P/N 13-21126 $79.85

ULTIMATE GUST LOCKS FOR RVS
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>
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<td>05-12368</td>
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<td>RV-8, 8A</td>
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<td>RV-10, 10A</td>
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<tr>
<td>RV-14 with Toeten Stick</td>
<td>05-27095</td>
<td>$237.95</td>
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</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.
PA-28 1968-97 ..................................P/N 13-12726 $39.95
PA28 1977-Current ............................P/N 13-12727 $39.95
PA32 1968-97 ..................................P/N 13-12728 $39.95
PA32 1977-Current ............................P/N 13-12729 $39.95
PA-28-61 Bowtie .................................P/N 13-15505 $39.95
Mooney ........................................P/N 13-20663 $39.95

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-PM approval on 95% of all US manual flap aircraft.

CESSNA/PIPER FLAP HANDLE EXTENSION APPLICATIONS:

SUPERCUB HANDLE EXTENSION APPLICATIONS:

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 occur, the bungees will absorb the load. P/N 13-10434 $39.50

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
AIRCRAFT LOCKS

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.

P/N 13-06141 ........... $112.75

YORK GUST-LOK™
The York Gust Loks 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

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<tr>
<th>Aircraft</th>
<th>Part No.</th>
<th>Price</th>
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<td>Commander 112 / 114</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>
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<td>Cessna Single engine 150/172’s, Helio Courier, 295/395</td>
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<td>Cessna Single engine 180, 260 &amp; 210’s fixed &amp; retract gear &amp; Cessna 337</td>
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<td>Cessna Twins except 337 &amp; 310</td>
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<td>Aerostar, Commander 500, Beech Baron, Bonanza, Duke &amp; 18/C-45, Lake L-A-4 (except Renegade)</td>
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<td>Cessna 310’s</td>
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STICK CONTROL AIRCRAFT

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<td>Huskie, Pitts</td>
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<td>J3 with Shin Knocker Tubes</td>
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<td>Piper PA-20</td>
<td>13-00878</td>
<td>$347.00</td>
</tr>
<tr>
<td>RV-6</td>
<td>13-00884</td>
<td>$348.00</td>
</tr>
<tr>
<td>RV-8</td>
<td>13-11868</td>
<td>$348.00</td>
</tr>
<tr>
<td>Swift (only for stick)</td>
<td>13-00883</td>
<td>$348.00</td>
</tr>
<tr>
<td>Waco</td>
<td>13-00887</td>
<td>$348.00</td>
</tr>
<tr>
<td>Yak 52</td>
<td>13-11871</td>
<td>$348.00</td>
</tr>
</tbody>
</table>

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. P/N 13-20147 ........... $356.00

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 insure 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. P/N 13-05182 ........... $68.80

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. P/N 13-03386 ........... $107.85

NELSON AILER-LOCKS
• 13” RBF streamer
• Locks flaps, ailerons, elevators, or rudder.
Ailer-Lock Large (10”) P/N 13-22705 ........... $39.95

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. P/N 13-18500 ........... $16.50

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. P/N 13-00869 ........... $29.60

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 virtually any control surface securely. Its bright color and integrated flag reminds you to remove before flight.
FIRE EXTINGUISHERS – RESCUE EQUIPMENT

DISPOSABLE, LOW-Maintenance HALON 1211-1301 BLEND

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.

H3R Extinguishers

<table>
<thead>
<tr>
<th>HALON 1211 UNITS</th>
<th>Part No.</th>
<th>Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A344T - 1.3 lb. (UL Rating 2B:C)</td>
<td>13-02811</td>
<td>9-12 ft</td>
<td>$294.00</td>
</tr>
<tr>
<td>A344TC - 1.3 lb. (UL Rating 2B:C)</td>
<td>13-02546</td>
<td>9-12 ft</td>
<td>$359.00</td>
</tr>
<tr>
<td>B352TS - 2.5 lb. (UL Rating 5B:C)</td>
<td>13-01966</td>
<td>9-15 ft</td>
<td>$452.00</td>
</tr>
<tr>
<td>B352TS - 2.5 lb. (UL Rating 5B:C)</td>
<td>13-02547</td>
<td>9-12 ft</td>
<td>$452.00</td>
</tr>
<tr>
<td>C352TS - 3.0 lb. (UL Rating 5B:C)</td>
<td>13-01967</td>
<td>9-15 ft</td>
<td>$542.00</td>
</tr>
<tr>
<td>C354TS - 3.0 lb. (UL Rating 5B:C)</td>
<td>13-02548</td>
<td>9-12 ft</td>
<td>$542.00</td>
</tr>
<tr>
<td>B355T - 5.0 lb. (UL Rating 10B:C)</td>
<td>13-02545</td>
<td>9-15 ft</td>
<td>$684.00</td>
</tr>
<tr>
<td>B369 - 15.7 lb. (UL rating 1A-10B:C)</td>
<td>13-02557</td>
<td>12-18 ft</td>
<td>$1,174.00</td>
</tr>
<tr>
<td>B371 - 19.9 lb. (UL rating 2A-40B:C)</td>
<td>13-02558</td>
<td>12-18 ft</td>
<td>$1,606.00</td>
</tr>
<tr>
<td>674 - 480.0 lb. (UL rating 10A-80B:C)</td>
<td>13-02655</td>
<td>30-45 ft</td>
<td>$12,394.00</td>
</tr>
<tr>
<td>B390 - 39.0 lb. (UL rating 2A-40B:C)</td>
<td>13-02654</td>
<td>12-18 ft</td>
<td>$1,232.00</td>
</tr>
<tr>
<td>337TS - 3.18 lb. (UL Rating 2B:C)</td>
<td>13-24405</td>
<td>7-8 ft</td>
<td>$1,378.00</td>
</tr>
<tr>
<td>351 - 19.88 lb. (UL 2A-10B:C)</td>
<td>13-24406</td>
<td>15-17 ft</td>
<td>$8,176.00</td>
</tr>
<tr>
<td>347 - 6.0 lb. (UL rating 5B:C)</td>
<td>13-03573</td>
<td>–10 ft</td>
<td>$2,496.00</td>
</tr>
<tr>
<td>349 - 8.0 lb. (UL rating 5B:C)</td>
<td>13-03575</td>
<td>–10 ft</td>
<td>$2,496.00</td>
</tr>
</tbody>
</table>

H3R QUICK RELEASE FIRE EXTINGUISHER BRACKET

FIRE EXTINGUISHER BRACKETS
Designed for use with H3R Aviation fire extinguisher models 347 and 349. BK325 has been tested to ensure that it can meet the most demanding aviation requirements.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part No.</th>
<th>Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>325 Red</td>
<td>P/N 13-23575</td>
<td>………</td>
<td>$234.00</td>
</tr>
</tbody>
</table>

H3R FIRE EXTINGUISHER MODEL 674
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/ramp. These rechargeable extinguishers have pressure gauges and require a 6-year maintenance and a 12-year hydrostatic test.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N 13-02562</td>
<td>………</td>
<td>$12,394.00</td>
</tr>
</tbody>
</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

H3R AVIATION FIRE EXTINGUISHERS
The FAA recommends and/or requires Halon fire extinguishers on aircraft. H3R’s 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 carrier. The heat-seeking quality of the Halon gas makes it a superior fire fighting agent.

PRT FIRE EXTINGUISHERS
MODELS RT-A400, RT-A800 AND RT-A1200
These extinguishers contain a unique blend of liquefied gas 1211/1301, two highly effective fire fighting agents. These units are self expelling which means that the pressure remains constant even when the extinguishers are almost empty.

<table>
<thead>
<tr>
<th>Protection RT Extinguishers</th>
<th>Part No.</th>
<th>Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT A400 - 1 lb. (UL Rating 5B:C)</td>
<td>13-06776</td>
<td>4-8 ft</td>
<td>$223.95</td>
</tr>
<tr>
<td>RT A600 - 1.2 lb. (UL Rating 2B:C)</td>
<td>13-06765</td>
<td>6-8 ft</td>
<td>$223.95</td>
</tr>
<tr>
<td>RT A800 - 2.5 lb. (UL Rating 5B:C)</td>
<td>13-06760</td>
<td>7-9 ft</td>
<td>$395.00</td>
</tr>
<tr>
<td>A1600 - 3.5 lb. (UL Rating 1A2B:C)</td>
<td>13-06805</td>
<td>9-12 ft</td>
<td>$536.00</td>
</tr>
</tbody>
</table>

OCEAN SIGNAL SAVESAFE GMDS HANDHELD VHF RADIO
The Ocean Signal range of survival craft VHF hand portable radio telephones exceed the requirements of IMO, SOLAS and GMDS. Lithium Polymer rechargeable battery option available with rapid charger, for everyday normal use. Fully waterproof, even 40C thermal shock. High efficiency transmitter for maximum battery life. Rugged design exceeds GMDS 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).

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N 13-02261</td>
<td>………</td>
<td>$212.30</td>
</tr>
</tbody>
</table>

RESCUE LASER FLARE MAGNUM™
A hand-held 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 the perfect 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.

EMERGENCY STROBE
- Waterproof • USCG approved • Operates up to 60 hours
- Uses D battery • Red lens available

www.aircraftspruce.com
SMOKE HOODS - LIFE VESTS

**PROPITA SMOKE HOOD**
The Propita 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 minute 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 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, purse, carry on luggage. Hood allows full 360 degree sight, talk and hearing capability. Heat Resistant – resists heat up to 932 degrees F. Provides 20 minutes of filtered breathable air. Five year shelf life.

P/N 13-17891 $59.95

**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 that 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 ........................................ $216.95
Belt Pouch ................................. $21.50

**GOT YOUR SIX AVIATION SMOKE & FIRE HOOD MASK**
The clear hood of our smoke mask allows you to see clearly while in the cockpit, with an easy to don stretch-neck seal to maintain a closed, smoke free environment inside the hood. It provides up to 60 minutes of clean air with a 5-year shelf life. Fits both adults and children.
Heat resistant hood helps protect you from radiant heat while the 5-layer air filtration system blocks most smoke, toxic fumes and gases. Utilizing two separate filtration layers, the Got Your Six Smoke & Fire Hood Mask filters dust, gas, water, CO, and HCN with an integrated oxidizer layer, which is tested to EN 403:2004 standards for performance and quality.

P/N 13-18188 $159.95
P/N 13-18482 $21.50

**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, so that the vest rests 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 ........................................... $69.95

**EAM XF-35 LIFE VEST**
Only 1.13 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. minimum. Approvals: USA FAA TSO-C13f; German Luftfahrtverordnung No. 40.321/53; United Kingdom LAA Approval No. AR01445. Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity: Functional Range: Up to 95% Relative Humidity Altitude: -2000 to 45,000 feet above sea level.

5 yr. Passenger Yellow ............... $56.75
10 yr. Passenger Yellow ............ $112.75
5 yr. Crew Orange .......................... $65.75

**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, waist strap for comfort and security. Equipped with an activated light and 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: Up to 70% Relative Humidity Altitude: -2000 to 45,000 feet above sea level.

P/N 13-12680 $259.95

**EAM UFX-35 LIFE VEST**
This single cell vest is the lightest weight air/crew vest in the world, weighing only .9 lbs (410 grams). 5 year frequency of inspection comes standard.

P/N 13-12679 $57.95
P/N 13-12684 $66.75

**EAM INFANT LIFE VEST**
This specially designed and affordable life vest is made exclusively for children less than 35 lbs. (16 kg). EAM infant vests come in USA and European versions, for the constantly changing safety markets of commercial carriers.

5 Yr. Vest w/Co2 .................. $112.75
10 Yr. Vest w/Co2 .................. $121.75
Without Co2 .......................... $112.75

**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, its lightweight allows for easy deployment and the constantly changing safety markets of commercial carriers.

4-6 Person Life Raft ................................ $2,040.00
4-6 Person Basic Raft w/o canopy .... $1,865.00
4-6 Person Basic Raft w/121 equip .... $1,832.00
4-6 Person Life Raft w/121 equip .... $1,832.00
8-12 Person Basic Raft w/o canopy .... $7,056.00
8-12 Person Basic Raft w/ Co2 .... $7,056.00
8-12 Person Basic Raft w/91 equip .... $6,492.00
8-12 Person Basic Raft w/121 equip ... $6,492.00
8-12 Person Raft w/91 equip .... $5,179.00
8-12 Person Raft w/ Co2 .... $5,179.00
8-12 Person Raft w/121 equip .... $5,179.00
8-12 Person Raft w/91 equip .... $5,179.00

**REVERE COASTAL COMPACT RAFT**
Double 200 lb. SuperRev™ ballast pockets, it enhances stability in rough sea conditions. Its lightweight allows for easy deployment and the compact size makes stowing easy in the smallest of spaces. Operation is easy. Just open the red flap on the valise and extend the painterline. Give a hard pull and the raft inflates automatically in less than 30 seconds. Coastal Compact Raft is not recommended for offshore use.

<table>
<thead>
<tr>
<th>Raft</th>
<th>Part No.</th>
<th>Price</th>
<th>With Canopy</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11-07471</td>
<td>$1,455.00</td>
<td></td>
<td>$1,893.00</td>
</tr>
<tr>
<td></td>
<td>11-07472</td>
<td>$1,750.00</td>
<td></td>
<td>$2,160.00</td>
</tr>
<tr>
<td></td>
<td>11-07474</td>
<td>$2,040.00</td>
<td></td>
<td>$2,405.00</td>
</tr>
</tbody>
</table>

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
LIFE RAFTS – LIFE VESTS

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. Equipment Pack Contains: 2 Red Hand Flares - USCG/SOLAS, Bailer, Signal Mirror, Paddles, Repair Kit, Sea sick Tablets. Water Tight Flashlight, Extra Flashlight Batteries, Whistle, Sponges. Floating Knife.

Specifications: • Weight: 13 lbs • Dimensions - Packed (L"xW"xH")

<table>
<thead>
<tr>
<th>2-Person Aero Compacts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Person ..................</td>
</tr>
<tr>
<td>4 Person ..................</td>
</tr>
<tr>
<td>4 Person Canopy ..........</td>
</tr>
<tr>
<td>4 Person Canopy and Standard Kit</td>
</tr>
<tr>
<td>4 Person Canopy and Standard Kit Plus</td>
</tr>
<tr>
<td>4 Person Canopy and Deluxe Kit</td>
</tr>
</tbody>
</table>

REVERE AERO ELITE LIFE RAFTS

The Aero Elite offers both crew and passengers easy usage when facing the threat of a life threatening situation as opposed to other life rafts that can be difficult to lift and transport at the time of need. Vertical bulwarks 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, storage 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.

| 4 Person .................. | P/N 11-09409  | $4,106.00 |
| 6 Person .................. | P/N 11-09411  | $4,380.00 |
| 8 Person .................. | P/N 11-09412  | $4,524.00 |

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.

Brick Valise, Hermetically Sealed w/Floor/.../P/N 13-18417 ...... $1,650.00
Brick Valise, Hermetically Sealed w/.../P/N 13-18418 ...... $1,375.00
Soft Valise, Loose Pack .................. | P/N 13-16033 | $1,325.00 |
Soft Valise, Loose Pack w/Floor/.../P/N 13-18419 ...... $1,599.00

SWITLIK CPR LIFE RAFT WITH PART 91 KIT

SWITLIK’s CPR is designed to be a high quality, light weight, best in class coastal life raft, with a convertible canopy system, large, fast deploying water ballast bags and heat sealed construction. The CPR provides 1,140 lbs of inflated buoyancy and 19.6 sq. ft of floor area and offers excellent ventilation as well as total protection from the elements. P/N 13-19317 ...... $5,699.00

REVERE COMFORTMAX™ INFLATABLE PFD - RED TYPE III

Features: •USCG approved for persons at least 16 years of age weighing 80 lbs. and above with a chest size between 30” and 52” • Dual waist belt stainless steel adjusters. Provides for easy adjustment with both hands and a more custom fit • Exterior inflation system access flap. Allows for clear, direct access to the CO2 cylinder for rearming. CO2 cylinder can be replaced without opening and unfolding the entire PFD • Waist strap and back strap attachment points fully connected and reinforced from inside for added strength • Heavy duty 420 denier nylon pack cloth outer cover • Twin 2” wide back straps for comfort and security • Comfortable neck. The neck area has no Velcro or edge binding to cause chaffing or abrasion for all-day comfort.

Red ........................................ | P/N 13-04373 | $116.75 |
Navy Blue .................................. | P/N 13-04372 | $116.75 |

REVERE PFD RE-ARMING KIT

This manual PFD Rearming Kit for Comfortmax Inflatable PFDs is an instant CO2 manual inflation system. ................ | P/N 13-08831 | $27.50 |

REVERE COMFORTMAX™ MAX MANUAL BELT PACK


Navy ................................ | P/N 13-08826 | $89.95 |
Red ...................................... | P/N 13-23257 | $89.95 |

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 11-114272 | $24.50 |
Lead Activated .................. | P/N 11-114273 | $23.50 |

EAM TITAN XF LIFE VEST

The TITAN XF is carefully designed to offer advanced protection for crew aboard an aircraft during over-water flight. Created with a heavy-duty front zipper and a fixed mesh back, the TITAN XF remains securely fastened throughout flight.

Blue With D Rings ............. | P/N 13-12961 | $364.00 |
Blue Without D Rings .......... | P/N 13-12959 | $350.00 |
Orange With D Rings .......... | P/N 13-12961 | $364.00 |
Orange Without D Rings ....... | P/N 13-12959 | $350.00 |

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, located 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.

USA: FAA TSO-C70a, Type II
Germany: LBA No. 40.320/12
Japan: JCB No. 535

For Air Taxi, Corporate and General Aviation • Single Tube • Compact, lightweight. Constructed of neoprene coated nylon • High tech inflation system • Competitively priced.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Canopy</th>
<th>Survival Kit</th>
<th>Rated Capacity</th>
<th>Dimensions (LxWxH)/Wt.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-16560</td>
<td>Radar Reflective</td>
<td>FAR 121</td>
<td>4</td>
<td>15x13.7x36 lbs.</td>
<td>$4,750.00</td>
</tr>
<tr>
<td>13-16561</td>
<td>Radar Reflective</td>
<td>FAR135</td>
<td>4</td>
<td>15x13.8x39lbs.</td>
<td>$5,582.00</td>
</tr>
<tr>
<td>13-16562</td>
<td>Standard</td>
<td>FAR 121 Special</td>
<td>4</td>
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<td>Radar Reflective</td>
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<td>6</td>
<td>33x16x7.5/57lbs.</td>
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SURVIVAL EQUIPMENT

SWITLIK TSO-C70A TYPE I OPR
8 PERSON LIFE RAFT

SWITLIK’s OPR 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 OPR 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 ........$6,949.00
Part 135 .......... P/N 13-21123 ........$7,149.00

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 ..........$109.85

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 34”-52” chest size. Will not inhibit your range of motion while hunting or fishing. U.S. Coast Guard approved. Type III. Reamr kit 38MRK.

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” Deluxe web belt with buckle • USCG Approved Type III
- One-size fits adults over 80 lbs.

P/N 14-00681 ..........$138.95

THROWRAFT INFLATABLE PERSONAL FLATION 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:
- Packed 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 when worn with Mustang Survival anti-exposure gear. Designed for easy integration with the MSD900, MSD901, MSD85, MAC200 and MAC300, the hood provides exceptional head and neck insulation and includes a lanyard to tether hood to suit, an adjustable mouth guard 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

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 .......... $384.00

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 electrical 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 U.S. Military Flew Crews • Flame-Resistant Material • Two-Way Zipper with Pull • Six Primary Pockets • Adjustable Waist Belt with Velcro Fastened • Knife Pocket on Left Inseam • Pen/Pencil Pocket on Left Sleeve • Gusseted Back • Sage Green and Tan Flight Suits are Near Infratech Colors.

Color | Part No. | Prices starting at
--- | --- | ---
Sage | website for sizes and part numbers | $209.99
Black | | $209.99
Tan | | $209.99

ACR BIVY 15W SOLAR PANEL

Intelligent Charging Technology: The USB port automatically recognizes your devices to provide the optimal charging current and speed up the charging process to minimize charging time. High Conversion Rate: the ETFE-coated panel absorbs sunlight effectively and can convert up to 20% of solar power to energy; smoothly charges iOS, Android, Bivy Stick, battery packs, GoPro, and other electronics.

Portable & Lightweight: ultra-thin and foldable design makes it easy to carry; Dirt & Splash Proof: IPX4 waterproof rate, which is resistant to spraying water and dust, no matter the direction; making it perfect for outdoor use.

P/N 11-19367 .......... $80.90

ACR BIVY STICK AND 15W SOLAR PANEL COMBO

Simply Activate the Bivy Stick SOS via the button on the device or through the app on your phone. The Bivy Stick subscription includes 24/7 monitoring by Global Rescue. Activating the SOS will allow you to communicate with Global Rescue via text, or if you are unable to communicate via text, Search & Rescue will be guided to your GPS location. The Bivy 15W Solar Panel will keep your phone and Bivy Stick charged for the duration of your adventures. The solar panel effectively converts up to 20% of solar power to energy, and its ultra-thin and foldable design make it easy to carry.

P/N 11-19366 .......... $364.00

ACR BIVY STICK SURVIVAL KIT

Simply Activate the Bivy Stick SOS via the button on the device or through the app on your phone. The Bivy Stick subscription includes 24/7 monitoring by Global Rescue. Activating the SOS will allow you to communicate with Global Rescue via text, or if you are unable to communicate via text, Search & Rescue will be guided to your GPS location. When Search and Rescue arrive on the scene the bright LED C-Strobe H2O strobe light will get rescuers’ attention at night, or in daylight hours use the signal mirror to gain their attention. Store all your emergency gear inside the RapidDitch Dry Bag to keep your survival kit conveniently together.

P/N 11-19364 .......... $289.99

ACR BIVY STICK AND SOLAR PANEL SURVIVAL KIT

Simply Activate the Bivy Stick SOS via the button on the device or through the app on your phone. The Bivy Stick subscription includes 24/7 monitoring by Global Rescue. Activating the SOS will allow you to communicate with Global Rescue via text, or if you are unable to communicate via text, Search & Rescue will be guided to your GPS location. When Search and Rescue arrive on the scene the bright LED C-Strobe H2O strobe light will get rescuers’ attention at night, or in daylight hours use the signal mirror to gain their attention. Store all your emergency gear inside the RapidDitch Dry Bag to keep your survival kit conveniently together. The Bivy 15W Solar Panel will keep your phone and Bivy Stick charged for the duration of your adventures. The solar panel effectively converts up to 20% of solar power to energy, and its ultra-thin and foldable design make it easy to carry.

P/N 11-19365 .......... $400.00

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
SWITLIK AVIATOR LIFE VEST
The Switlik Aviator Life Vest is supremely more 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 open 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 allowing 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. High visibility red beaded handles are conveniently located on either side of the vest and easily reached through the side access flaps. The contoured cut of the MOLLE side panels locates the accessories 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. High visibility red beaded handles are found on both sides of the vest making for simple activation. They incorporate a breakaway safety feature to prevent snagging. 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 X-Back Basic incorporates the same fit, adjustment and overall comfort users have come to expect from the Switlik X-Back, with the addition of two permanently attached all-in-one pockets in lieu place of the MOLE vest attachment loops. This new vest is intended to be a modern version of SWITLIK’S previous HV-35 Helicopter Vest. This vest is for users who do not need the MOLE system and all its accessories. The pockets attached to the vest are intended to fit your essentials “keys, phone, and yes, the newest smart phones will fit!” Color: Blue. P/N 13-18416 $410.00

SWITLIK X-BACK BASIC LIFE VEST BLUE
The X-Back Basic incorporates the same fit, adjustment and overall comfort users have come to expect from the Switlik X-Back, with the addition of two permanently attached all-in-one pockets in lieu place of the MOLE vest attachment loops. This new vest is intended to be a modern version of SWITLIK’S previous HV-35 Helicopter Vest. This vest is for users who do not need the MOLE system and all its accessories. The pockets attached to the vest are intended to fit your essentials “keys, phone, and yes, the newest smart phones will fit!” Color: Blue. P/N 13-18416 $410.00

SWITLIK ALL-PAX LIFE PRESERVER BLUE
Whether outfitting a personal aircraft, or a fleet of passengers, the SWITLIK ALL-PAX life preserver is a perfect solution. The ALL-PAX Life Preserver has maximum adjustment capability to fit the largest range of sizes, and provides sufficient flotation for children and adults making it a great product solution for a variety of passengers. Designed for easy donning and constant wear, the ALL-PAX passenger life preserver is perfect for over-water flight protection. Color: Blue. P/N 13-18741 $339.00

EAM UXF-35 LIFE VEST (10 YEAR)
This single cell vest is the lightest weight avation vest in the world, weighing only .9 lbs (410 grams). 10 year frequency of inspection. Standard 5 year version also available (P/N 12-02355). TSO-C13f Approved. P/N 13-12694 $66.75
Crew Molten Orange. P/N 13-21624 $359.00

SWITLIK X-BACK LEG STRAPS
Quick donning adjustable leg straps are neatly stored using the Velcro™ ties making them a clean and simple accessory to have. P/N 13-12691 $59.99/pr.

SWITLIK X-BACK MOBILE PHONE POCKET
Safe, secure and easily accessible cell phone holster fits all popular models. P/N 13-12692 $31.99

SWITLIK X-BACK BUDDY CLIP
When ditching your aircraft it’s important for survivors to stay together. The Switlik Buddy Clip allows you to quickly tether yourselves together via a 6 foot (1.8 m) 550 lb (250 kg) test line with a CRES snap hook. When not in use it is neatly packed into a nylon pouch. The pouch is designed to be attached with snaps to the MOLE system and by dead ending the buddy line loop directly to the MOLE Loops as a back up. P/N 13-12693 $34.99

SWITLIK X-BACK ALL IN ONE POCKET
The All-In-One pocket allows you to organize all your equipment into one area. Complete with two zipper pockets, interior MOLE straps, interior compartments, and a conveniently located pen holder on the outside. Available in left and right. Right Side. P/N 13-12694 $65.99
Left Side. P/N 13-12695 $65.99

SWITLIK X BACK BOTTLE HOLSTER
The Switlik HEEDS/HABD Holsters are specifically designed to be mounted on an angle, readily accessible and unobstructed by safety restraints. This ideal location reduces fatigue for the untrained person by keeping weight off your neck. P/N 13-12690 $65.99
P/N 13-12689 $65.99

SWITLIK SURVIVAL PRODUCTS USA-80 EVOLUTION CONSTANT WEAR LIFE VEST
The UA-80 Evolution vest is the first of its kind. It’s the first FAA approved commercially available underarm constant wear life vest, utilizing SWITLIK’s signature underarm flotation. When inflated, SWITLIK’s signature underarm flotation technology provides improved mobility, maneuverability, higher freeboard and superior water channeling when compared to traditional yoke-style bladders. It also provides auto-righting of unconscious aircrew to bring them into a stable, face-up position for unimpeded breathing. As the flotation resides inside the vest, valuable space is added to the front for accessories. The Evolution Vest has more than twice the amount of available MOLE loops than any previous Switlik design. P/N 13-24036 $819.00

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
PROFORCE SURVIVAL PRODUCTS

SNUGPAK SOFTIE ELITE 3 SLEEPING BAG
Equipped with the unique easy to deploy EPS Expanda Panel System and its own sturdy compression stuff sack. Specifications: • Temp. Rating: Comfort 23°F / Low 14°F (-5°C / -10°C) • Weight: 53oz • Length: 6.75" x 26" • Chest: 65" • Pack Size: 9" x 9" (fully compressed)
Black…………………………..P/N 13-08780 ……..$169.95
Olive ……………………………..P/N 13-08779 ……..$169.95

SNUGPAK SOFTIE 9 HAWK SLEEPING BAG
Temp. Rating: Comfort 23°F / Low 14°F (-5°C / -10°C) • Weight: 3.17 oz. / 90 g. • Length: 8" • Chest: 65" • Pack Size: 8" x 8" (fully compressed)
Black…………………………..P/N 13-08786 ……..$84.15
Olive ……………………………..P/N 13-08784 ……..$84.15

SNUGPAK JUNGLE BAG SLEEPING BAG
The Jungle Bag is an ideal sleeping bag for tropical conditions. Travelsoft 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)
Black…………………………..P/N 13-08783 ……..$69.95
Olive ……………………………..P/N 13-08782 ……..$69.95
Desert Tan……………………..P/N 13-10258 ……..$69.95

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 your gear takes an unexpected dive into the water. They are a great addition that can be used in conjunction with any of the Snugpak® backpacks or any other backpacks. Not intended to be submerged for extended periods of time. Roll-top closure must be closed correctly (recommended rolling 3 times and buckled to keep contents dry). Contact with abrasive or sharp objects can damage and/or compromise the integrity and waterproofness of our Dri-Sak bags. 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.
Olive ……………………………..P/N 13-08784 ……..$23.95
Black ……………………………..P/N 13-08785 ……..$23.95
Coyote ……………………………..P/N 13-08786 ……..$23.95
Large - Dimensions: 8.5" x 20.75" / 22 x 53 cm. Volume: 13 liters. Weight: 3.17 oz. / 90 g.
Olive ……………………………..P/N 13-08787 ……..$27.95
Black ……………………………..P/N 13-08788 ……..$27.95
Coyote ……………………………..P/N 13-08789 ……..$27.95

PROFORCE PORTABLE WATER FILTRATION RADIOLOGICAL REPLACEMENT FILTER
Portable water filtration system replacement filter for the 28oz and 38oz portable water bottle and canteen. ………………………P/N 13-12002 ……..$47.85

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 foam core 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)
Black…………………………..P/N 13-12104 ……..$129.95
Desert Tan……………………..P/N 13-12103 ……..$129.95

PROFORCE EMERGENCY SURVIVAL BAG
The NDûR 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 ……..$12.95

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 ……..$25.95

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. Weight: 1.52oz. 5.51x2.36x.41.
P/N 13-12004 ……..$10.50

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 13-10257 ……..$69.95
Olive ……………………………..P/N 13-10266 ……..$69.95

PILE PANTS
Temperature: 23°F / 14°F -8°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).

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$299.95
$169.95
$169.95
$27.95
$27.95
$27.95
$27.95
**PROFORCE SURVIVAL PRODUCTS**

**PROFORCE ARMY FIRE STEELS & STRIKER**
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 ............$12.95

**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 Packaged ..........P/N 13-08795 ............$8.95

**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 ............$1.95

**PROFORCE HEAVY DUTY BUNGE CORDS**
Ideal for securing cargo, packs and just about anything. Great for shelter building. Heavy duty 30’ long x 5/16” in diameter with black plastic coated hooks. Sold in 4 packs. Color: Olive
P/N 13-08803 ............$11.95

**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 lighting flint and striker and multifunctional knife w/ fold out scissors. Assembled in the US. Contents may vary..............................P/N 13-08802 ............$34.95

**BRITE STRIKE BRITE-RESCUE SIGNALING SYSTEM**
Brite-Rescue™ is an emergency light 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 international amber 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, a steady on and can be turned off and reused. The LED’s 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 13-21092 ............$9.95

**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

**PROFORCE EMERGENCY SIGNAL MIRROR**
Robust high impact plastic. Easy to use with one hand. Sun’s reflection can be seen for many miles. Floats if accidentally dropped in water. Retail Packaged. Measures 2” x 3”
P/N 13-08796 ............$9.95

**TRUE NO-TOUCH CARABINER TOOL**
The No-Touch Carabiner Tool works as an extension of your hand. With this antimicrobial, brass plated tool, you can use public touchscreens, keypads, and even open doors and bottles without leaving a fingerprint behind or taking a germ with you. The uniquely designed locking clip remains open to ensure it will never get stuck on any door handle. This multi-functional Carabiner Tool also includes a built-in box opener, flat head driver, bottle opener, and a stylus tip for touchscreen devices. Now you can do it all without touching a thing..............P/N 13-23258 ............$9.50

**FLIGHT OUTFITTERS PILOT SURVIVAL KNIFE**
The Pilot Survival Knife is more than just a blade. This knife was designed to be the perfect side-kick accessory for pilots. In addition to the two-in-one blade design, there is a built-in LED flashlight on the top of the knife. The handle also features a seatbelt cutter, a glass breaker tool, and a clip to secure the knife on a belt or bag. All of these features are neatly contained within the rugged yet attractive grey and black handle. Two-in-one blade design. Integrated LED Flashlight. Seatbelt cutter. Glass breaker tool, and Belt Clip ..............P/N 13-20665 ............$29.95

**BRITE STRIKE 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 3mm™ Adhesive Back. Six different colors. Includes: 2 Green, 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

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
WWW.AIRCRAFTSPRUCE.COM

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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 thumb. 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

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

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 • Durable and 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

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 wrist 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 ..................$5.35

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.)

FAA
The FL220 Survival Kit Lite is the perfect fit for the pilot that invests in safety. General aviation can only be safe with the right safety equipment on board. FL220 has put together an 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.)

FAA DELUXE
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: • 11.64” L x 8.34” W x 3.78” D. • 3.5 lbs (1.6 Kg Approx.)

www.aircraftspruce.com

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
NYLON CASE FIRST AID KITS

MODEL A FIRST AID KIT
International Orange Case Velcro Hold-Downs 10 FA Unit

Kit Contents:
• 1” X 3” Adhesive Bandages (16 Bandages) • 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 Triangle Bandages 40” x 40” x 56” • Ammonia Inhalants (10 Capsules) • 6 Burn Gel Packets • Wire Splints 3-3/4” x 27” • PVP Iodine Wipes (10 Wipes) • Orange First Aid Case

P/N 13-02944 ............... $108.95

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

P/N 13-02945 ............... $201.95

FIRST-AID SAFETY SCISSORS

Angle Kit Plastic Handle Scissors 4 1/2” can be used in all first aid kits.

P/N 13-12036 ............... $2.70

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

ODOE 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 ............... $185.75

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 ............... $8.50

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

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) by 84” (214cm) 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 13-06933 ............... $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 gray 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 • Uses 2 D batteries (not included) • Fluorescent coated diffuser enhances red light output.

P/N 13-08959 ............... $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 Visibility. 21 Inches length. Tough ABS construction. 400 Hour battery life.

22” Red ...................... P/N 11-10803 ............... $18.80

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

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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 emergency 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 ..........................$41.50

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 supply items in a custom nylon carrying bag with reinforced straps. “The Traveler” is ready to go anywhere.

P/N 13-03607 ..........................$69.95

2-PERSON EMERGENCY SURVIVAL KIT
This deluxe 2 PERSON EMERGENCY SURVIVOR KIT could be the difference between disaster and survival in an emergency situation. It contains a complete 3-5 day supply of food, water, medical & other emergency supplies for 2 people. Over 60 Emergency Items! • Emergency Drinking Water Metallic Sachets • 2400 Calorie Emergency Food Rations • Instant Cold Pack • Medical Kit • Portable Flashlights • Thermal Blankets • AM/FM Portable Radio w/ Batteries • The Wallace Emergency Guidebook

P/N 13-03608 ..........................$98.75

EMERGENCY BLANKET
This Emergency Blanket (52” x 82.5”, 1.5 oz.) provides personal protection from rain, wind, 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 ..........................$3.35

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 the first aid kit to include your company’s logo

P/N 13-03605 ..........................$18.85

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 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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P/N 13-03603 ..........................$12.50

COCCON SLEEPING BAG
The All Weather Pocket Size Sleeping Bag The Cocoon Sleeping Bag (84” x 36”) provides personal protection from rain, wind, 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 ..........................$12.50

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)

| P/N 13-03599 | Ready to Eat: Each package contains 9 pre-measured 400 calorie meals. | $11.85 |
| P/N 13-03601 | Ready to Eat: Each package contains 6 pre-measured 400 calorie meals. | $7.90 |
| P/N 13-03602 | Ready to Eat: Each package contains 3 pre-measured 400 calorie meals. | $5.95 |

EMERGENCY WATER PACKETS
Mainstay™ Water Packets - All water is not created equal! Here at Surviv-Aid, 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 dispense, 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 ..........................$18.95

THE WALLACE GUIDEBOOK
For Emergency Care & Survival - When you’re faced with a disaster, you can often face a 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 ..........................$26.90

RESCUEME EDF1 OCEAN SIGNAL FLARE
The rescueME EDF1 electronic distress flare offers users a safe and long-lasting solution to visual signalling in an emergency. The light output is a beam of over 30° throughout the full 360° azimuth, providing in excess of 6 times more light coverage than other pyrotechnic flares. Light is also distributed throughout the hemisphere above the unit to ensure visibility from the air. Unlike single use pyrotechnic flares the rescueME EDF1 can be reused 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.

P/N 13-20241 ..........................$172.75

Replacement Battery Pack .........P/N 13-20243 ..........................$51.75

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
The kit is packaged in a Pelican 1170 case, is lightweight and compact. Multitool, Spark-Lite Flint and Tinder along with our very own Crashkit Aviation kit contains multiple options for fire, water, shelter and signal. and contains 152 essential items needed to sustain two people. This Aviation kit contains multiple options for fire, water, shelter and signal. This kit also includes Aquatabs Water Purification Tablets, Gerber Multitool, Spark-Lite Flint and Tinder along with our very own Crashkit brand Firecord, Knotcard and many other proven survival items.

The kit is packaged in a Pelican 1170 case, is lightweight and compact for ease of storage. Content list is approximate. Specifications: Dimensions: 29.6 x 21.2 x 9.6 cm

CRASHKIT 2LITE SURVIVAL KIT
Smaller, lighter, cheaper! The Crashkit 2Lite now contains 152 unique and essential items specific to shelter, signal, fire and water purification. This kit DOES NOT contain additional ‘luxury’ items such as survival ration, prepacked water, hand/foot warmers etc.

Housed in a Pelican 1170 Case, the ‘Crashkit 2Lite’ is smaller and lighter, yet still plenty robust for many applications. Designed to comfortably sustain 2 people for 7 days, this kit exceeds all Transport Canada compliance standards for both Survival and First Aid, Type B (6+).

As a pilot with a professional responsibility to others, we know you will want only the 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 ......... $548.00

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 water, but the means for purification, as well as hot chocolate, and 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. Dimensions: 11.62” x 8.00” x 29.5 x 15.2 cm) Weight: 17.55lbs 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 ......... $965.00

CRASHKIT 6-7 SURVIVAL KIT

Intended for commercial aircraft, 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 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 13-04692 ......... $1,215.00

FLIGHT OUTFITTERS BUSH PILOT SURVIVAL KIT
An emergency situation can happen at any time, so being prepared for off-airport landings is an important part of your pre-flight planning. The Bush Pilot Survival Kit provides all the essential items to keep you safe in an emergency, and comes with a rugged carrying case. This 30-item kit is compact, lightweight, and easy to stow—perfect for larger flight bags or under the seat.

Includes: • Water resistant case • Multi-tool • Flashlight with AA battery • Fire starter with ignition rope • Blow tube • Paracord survival bracelet • Wire saw • Carabiner • First aid kit • Water purification tablet • Fishing kit • Signal mirror • Emergency blanket • Each item was hand picked by a team of veteran pilots and adventurers.....P/N 13-23891 ......... $49.95

GO GIRL TRAVEL COOLIE
Important Note: GoGirl products can only be shipped within the USA. Cannot ship internationally.
A simpler way to store the GoGirl. Just fold your GoGirl in half and insert into the GoGirl Travel Coolie. Makes carrying in a pocket easier than before. Great for fishing and camping.
Note: *GoGirl funnel sold separately.

P/N 13-22449 ......... $59.98

GO GIRL SINGLE TUBE
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 ......... $14.99

GOGIRL TRAVEL COOLIE
P/N 13-22449 ......... $59.98

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 packaged food, 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 8.00” x 29.5 x 15.2 cm) Weight: 17.55lbs 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 ......... $965.00

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
Survival Equipment

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 durable molded polyethylene foam head has been lab-tested for non-abrasiveness, freeze resistance, center load stress and durability to achieve the highest ratings in all tests. The oversized head (6” x 17”) is the largest snow remover available. The high-impact plastic face plate is recessed into the foam to prevent contact with the aircraft. 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 .............$24.50

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 starting tinder in the air/water tight tinder box portion of the unit that is sealed from the elements using an o-ring seal. 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 will shine 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 13-04055  .............

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. Replace lithium batteries every 5 years or before battery manufacturer expiry date. Lithium batteries are recommended. When it comes to saving lives, anything less than the best is not an option. The Firefly PRO rescue strobe lights are the brightest and most feature-packed strobe lights on the market today. With three activation functions, toggle between the ultra-bright strobe or the SOS strobe to visually alert Search and Rescue of your location, then toggle to the Steady-On feature for close-up recovery operations.

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 ..........$74.95

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 13-02019 .............$24.99

Ultrafit™ Earplugs with Carrying Case

• Patented, pre-molded, triple-flange design inserts easily. • No rolling or sizing needed to get a comfortable, protective fit. • Hypoallergenic polymer is washable and reusable. • Carrying case keeps plugs clean and accessible for re-use. • NRR 25dB. • ANSI S3.19-1974; CSA Z94.2; CSA Class AL..........................P/N 13-02194 .............$2.22

E-Z Fit Ear Plugs with Cord

The E-Z Fit line of EAR plugs was designed specifically for smaller ear canals, providing comfort and a secure fit. The self-adjusting foam and bell shape allow for easy insertion and help to keep the earplug from shifting or dislodging.

P/N 14-00051 .............$0.85

E-A-R Classic™ Ear Plugs with 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, non-flammable, moisture-resistant • NRR 29dB • ANSI S3.19-1974; CSA Class AL • P/N 9134 ..................$0.47/pair

G.I. Aviation Survival Fire Starter

Magnesium shaving edge and sparking insert. Government issue.

P/N 14-02700 .............$13.50

E-A-R Classic™ Ear Plugs with 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, non-flammable, moisture-resistant • NRR 29dB • ANSI S3.19-1974; CSA Class AL • P/N 9134 ..................$0.47/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

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

Personal Signaling Reflector

The “Automatic Personal Signaling Reflector” works continuously and automatically 24-7, day and night. You can work on your shelter, gather food/water or rest if injured. Rescuers will not walk by you if you’re asleep or if you are unable to respond. The highly reflective silver-coated plastic works with Sunlight, Search Lights and Flashlights. It’s always working.

P/N 13-08661 .............$9.70

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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 ............ $21.75

HORIZONTAL BRACKET
Black molded plastic bracket for underseat installation. 
P/N 13-04169 ............ $25.90

VERTICAL BRACKET
Black molded plastic bracket for vertical installation. 
P/N 13-04170 ............. $18.75

VENTURI
Black molded plastic venturi mounts on fuselage bottom and produces required suction to horn and outlet tubes for fluid ejection. 
P/N 13-04167 ............. $32.50

HORN AND VALVE ASSEMBLY
Dimensions: Length: 8-31/64"; Top opening: 2-21/64"; Bottom opening: 3/16"; Weight: 4 ounces. 
P/N 13-04172 ............. $107.75

TEE AN8019-1
The material is RTP 152 black. 2-1/32" wide and 1" length. 
P/N 13-04172 ............. $14.75

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 ............. $19.60

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. 
Adult Band: P/N 9411 .................. $8.75/ Child Band: P/N 13-23252 ............ $8.75/pr

SIC-SAC™
Use these for air sickness emergencies. Moisture proof and tear resistant even under extreme temperature changes. 10 sacks, individually packaged, each with attached tie band. 
Pack of 10 ...................... P/N 9296 .................. $11.75
Pack of 100 ..................... P/N 9296-100 .......... $117.50

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 malodors to drastically reduce air pollution, purify and sanitize the air. 
P/N 14-00061 ............. $12.50

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. 
3 pack ...................... P/N 13-12354 ............. $14.95
10 pack ..................... P/N 13-12355 ............ $39.85

WHITE AIR SICKNESS BAGS
White air sickness bag, block bottom. 25 Pack 
23 x 11.5 x 6.5cm ............. P/N 09-05860 ............. $4.45

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 ............. $11.50

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 9745 ............. $8.99

G FUNNEL ADAPTER
The G-Funnel is a portable urinal adapter which simply screws on to any 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 ............. $9.50

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 guard during use. Convenient, sanitary and compact, TravelJohn is easy to use while sitting or standing. Will not leak or spill, even if punctured. Holds 28 fl. oz. Includes antiseptic hand wipe, 3-pack. 
P/N 13-00894 .......... $5.85

CONVENIENCE BAG
Disposable urine & vomit bag. • Wide mouth. • No spill, cleanup, or odors. One-hand use 
P/N 13-02821 ............. $2.25

FLIGHT DATA SYSTEMS GD-40
CARBON MONOXIDE DETECTOR
P/N 11-09843 ............. $365.00

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

RADIANT TECHNOLOGY CO PRO ™ CARBON MONOXIDE MONITOR + DIGITAL G-METER
CO Pro™ is a new generation product in Radiant Technology’s robust line of avionic and sensor tech instruments. CO Pro™ is a Carbon Monoxide detector and G-Meter all in one. Designed for pilots and aviation enthusiasts, the portable detector features two primary interfaces—one with continuous CO graphing capability and the other showing a G Meter (which also shows CO levels in background). The unit has an audible alarm and is battery powered up to five hours on a single charge (rechargeable with USB). CO Pro™ updates Radiant’s carbon monoxide safety product line with brilliant new features. The ability to see CO levels trend over time provides better information than competitive, static display monitors. This increases pilot and passenger comfort and also helps to determine what might have happened. For instance, a change in engine noise associated with an observable graph rise in CO levels might be associated with a new crack in an exhaust system. 
P/N 10-07470 ............. $199.00

WWW.AIRCRAFTSPRUCE.COM
CO DETECTORS

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 who want the unit to be small, so it takes up a minimum of panel space, and provides pilots a peace of mind. Detector will go into alarm mode within five minutes if CO level is greater than 50 PPM. The unit has dual light LED alarm; Amber less than 99 PPM and Red 100 PPM and above. Very simple installation (2-4 hours). For experimental aircraft only. Aero Model 353.................P/N 13-16423 ..........$411.00
Aero Model 353 w/ Pressure Sensor ....P/N 13-16424 ..........$527.00
CO2 Detector for AERO 353 CGR ....P/N 10-03188 ..........$527.00
353P-201 Remote Mount .............P/N 13-06917 ..........$499.00

MODEL AERO 553 - Replaces the 2.25” clock and provides the latest CO detection that displays 30 to 999 ppm in the cockpit, as well as aircraft high and low voltage alarms, pressure density altitude readout for takeoff and landing. Cabin altitude alerts to remind you to go on oxygen. CO level, cabin pressure and temperature to be displayed on the UPS AT CNX80.............P/N 13-02569 ..........$875.00
Aero 553 OAT Probe .................P/N 13-06165 ..........$143.85

MODEL AERO 451 - The CO Guardian 451-101 panel mounted Carbon Monoxide detector is designed especially for FAA certificated Part 23 aircraft and Part 27 and 29 rotorcraft. A compact and lightweight unit meant to use as little panel space as possible, the 451-101 combines highly accurate CO detection for the cockpit in a compact package. This easily mounted detection unit is perfect for builders and pilots looking for basic protection from the dangers of carbon monoxide in their certified aircraft or helicopter. Model 451-101 Panel Mount.................P/N 13-21110 ..........$527.00
Model 451-201 Remote Mount ........P/N 13-21111 ..........$497.00

MODEL AERO-452 - Input Power-14 / 28 V DC.  Power Usage-Less than 1 Watt, 10 Watts with heater ON. Testable Range -20° C to 55° C.  Inspection - Each Unit 100% tested. Humidity - 5% to 95% RH (non-condensing). Circuit Breaker-2 Amp. Design-Meets TSO-C48A. Weight-3.5 Oz. Sensors-Tested to 25,000 PPM. Calibration-100 and 500 PPM. Output-Dual Relay Output for, Panel Warning light / Annunciator. Warranty: The AERO 452 comes with a 1 year limited warranty. The warranty will be void if the unit has been opened or tampered with........P/N 13-07102 ..........$637.00

MODEL AERO 452-201-011 - Aero 452-201-011 is the first FAA certificated remote mountable Carbon Monoxide detector for use in General Aviation. This unit is a derivative of Aero 452 (Panel Mount). This unit comes standard with remote re-set switch and a remote light and can be installed behind a panel. This unit is pre-wired for connecting to an external annunciator warning lamp on your panel. Different light models can be purchased separately. P/N 13-06918 ..........$638.00

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 rare response when CO is present. The 551 unit shows continuous CO Level from 10PPM to 999 PPM. P/N 13-06919 ..........$649.00

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 knowingly and decisively to safety incidents.

Features:  User-friendly operation • Easy-to-read display • Multiple language support • Lightweight convenience • Ease of maintenance • Serviceability • The new 1-Series sensor for enhanced reliability • Connected Bluetooth Low Energy (BLE) capabilities

P/N 13-22414 ..........$464.00

SENSONICS AV8 INSPECTOR PORTABLE CARBON MONOXIDE MONITORS

In Aviation, CO is commonly produced by equipment such as piston-driven aircraft, ground servicing equipment, and airside vehicles. Turbine engine aircraft exhaust and auxiliary power unit (APU) exhaust can also contribute to the accumulation of unsafe levels of CO. Being aware of the potential for carbon monoxide (CO) exposure and poisoning is crucial for eliminating safety hazards and preventing accidents. The AV8 Inspector’s advanced sensor technology allows for accurate readings of carbon monoxide concentrations, before it becomes a problem.

Pro version includes Alarm Adjust and 24 Hour TWA.
Standard Version.........................P/N 10-07327 ..........$164.00
Pro Version..................................P/N 10-07328 ..........$194.00

AITHRE SHIELD USB 6.0 PORTABLE CO DETECTOR

The Shield USB 6.0 builds on the legacy of the Shield 4.0 using the same technology in a smaller form factor. 12 years of improvements inspired by customer feedback. The 6.0 is the first of its kind - a small USB stick that plugs into any USB source for an extremely simple, portable, and functional solution for sensitive carbon monoxide detection in your aircraft........P/N 11-19357 ..........$150.00

AITHRE SHIELD EX 3.0 REAR-THROTTLE PANEL CARBON MONOXIDE MONITOR

Note: For Experimental Aircraft Only. The Aithre Shield EX 3.0 is the first behind-the-panel device that puts carbon monoxide readings AND tank PSI from your 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

GASALERT CLIP EXTREME CARBON MONOXIDE MONITOR TWO YEAR BATTERY LIFE

Simply press the start/stop 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 and concusion-proof housing, test card and hose, Manual CO meter, and instruction manual. Gas Alert Clip Extreme II CO (2 Years)........P/N 13-09667 ..........$159.95

STANDARD CARBON MONOXIDE DETECTOR

Toxic, odorless, tasteless gas produced by incomplete combustion or gasoline, 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. Exposure to CO less than 99 PPM and Red 100 PPM and above. Very simple installation (2-4 hours). For experimental aircraft only.

DISCOUNT on 5...........

ASA CARBON MONOXIDE DETECTOR

Carbon Monoxide (CO) is a toxic, odorless, and tasteless gas produced by combustion engines, internal combustion engines from any poorly vented or improperly adjusted fuel-burning appliance. Exposure to CO less than 99 PPM and Red 100 PPM and above. Very simple installation (2-4 hours). For experimental aircraft only.

DIGITAL CO 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 backlight is off and 36 hours with the backlight on........P/N 12-01895 ..........$182.75

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 ..........$280.95

GEIGER PLUS PERSONAL CARBON MONOXIDE MONITOR

Geiger PLUS is a key fob-sized unit that provides real time aural alarm when carbon monoxide levels are dangerously high. The unit provides a very loud distinctive alarm at ~41 PPM and an even more annoying alarm when carbon monoxide levels are dangerously high. The unit provides a very loud distinctive alarm at ~41 PPM and an even more annoying alarm when carbon monoxide levels are dangerously high. The unit provides a very loud distinctive alarm at ~41 PPM and an even more annoying alarm when carbon monoxide levels are dangerously high. The unit provides a very loud distinctive alarm at ~41 PPM and an even more annoying alarm when carbon monoxide levels are dangerously high.

SPARROW MODEL W500 CO CARBON MONOXIDE & AIR MONITOR

SPARROW is a health and safety device that measures and alarms to high and low levels of carbon monoxide (CO), along with temperature, pressure, temperature, pressure, displays and tracks exposure over time, giving you information on health effects and even notifying others in the event of an emergency. SPARROW App will also store and map the location of unhealthy air events so you can plan healthier routes in the future. While you can be alerted to your alerts and notifications to your needs, the SPARROW and its app will always alert you to hazardous life threatening situations with audible and visual alarms.

P/N 13-23462 ..........$208.87

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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>
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<tbody>
<tr>
<td>X-Small</td>
<td>5-10 lbs</td>
<td>7-9”</td>
<td>1.5”</td>
<td>1.625”</td>
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<td>Small</td>
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<td>Medium</td>
<td>20-50 lbs</td>
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<td>Large</td>
<td>50-95 lbs</td>
<td>18-23”</td>
<td>3.25”</td>
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<td>X-Large</td>
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<td>4”</td>
<td>4”</td>
<td>5.8 oz</td>
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</table>

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 Mug® Black”. But now, Mutt Muffs® are available in three additional colors! Red! Blue! and Pink!

P/N 13-05541 - Ever-classic “Mutt Mug® Black” ..................................................$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: 18” x 18” x 24”

X-Large: 23” x 23” x 24”

MUTT MUFFS COLLAPSIBLE SILICONE BOWL FOR DOGS

Next time your pooch is pantin’ for a drink, pull out these convenient, collapsible silicone bowls. Waterproof, dishwasher safe, and made of a 100% Food Grade Silicone. The bowl measure 7” in diameters, and has a 5 cup capacity.

Blue: P/N 13-23676 ..............$9.65

Red: P/N 13-23675 ..............$9.65

Pink: P/N 13-23677 ..............$9.65

DOG IS MY CO-PILOT - BUMPERSTICKER

“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 ..................$5.65

BARK BAGS

If you take passengers, sooner or later, you’re going to need one. 9-3/4” x 4-1/4” to hold alot of chunks. Sold in a package of 3. There could be sympathy heaves.

P/N 13-05543 ..................$4.50

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 deadening 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 ..............$71.80

Medium (20 - 45 pounds 9” & 19” head size) ....P/N 13-08289 ..............$74.75

Large (Over 45 Pounds & 19” head size) ....P/N 13-12807 ..............$92.75

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 oxygen system.

P/N 13-07460 - Giant ..........................$117.75

P/N 13-07461 - Large ..........................$116.75

P/N 13-07462 - Medium ..........................$118.75

P/N 13-07463 - Small ..........................$120.99

P/N 13-07464 - X-Small ..........................$119.75

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, Cavaliers, Bichon Frise) ...............

Medium - (Beagles, Keeshounds, Jack Russells, Standard Poodle) ...............

Large - (Cockers Spaniels, Springers, Beagles, Boston Terriers) ...............

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.

“Dog is My Co-Pilot” is a registered trademark of Co-Pilot Pet Products, Inc., used with permission.

WWW.AIRCRAFTSPRUCE.COM
WEATHER STATIONS – WINDBRACE

WINDSCRIBE HANDHELD WIND METER
A precise, handheld wind meter (anemometer). Also measures maximum headwind, maximum tailwind, a five-second average wind, and a running average wind. Speeds 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

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

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" Deck Mount or a 15" Post Mount.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<td>Lo Wing Garden Weathervane</td>
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<td>Cessna Garden Weathervane</td>
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WIRELESS VANTAGE PRO2 WEATHER STATION
Uses frequency hopping spread spectrum radio technology to transmit data wirelessly up to 1000' (300 m). Console/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 console, or use with three C batteries (not included). Wireless range is up to 1000’ outdoors, line of sight. Typical range through walls 200’ to 400’. Add wireless repeaters for distances up to 1.7 miles. Not available in EU (Europe).
Vantage Pro2 (U.S.) P/N 13-05532 $595.00
Vantage Pro2 Plus 2/UV & Solar Radiation P/N 13-05586 $969.00
Mounting Tripod P/N 13-04569 $103.75

DAVIS INSTRUMENTS ANEMOMETER
Replacement Anemometer for Vantage Pro2 & Pro
P/N 13-13073 $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. 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 -25 °C to +60 °C.
P/N 13-16357 $69.95

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 -25 °C to +60 °C. Humidity: Units: %RH, Resolution: 0.1 unit, Accuracy: ± 4.5 %RH, Measuring range: from 0 to 100 %RH. P/N 13-16358 $94.95

SKYWATCH WINDOO 3 OMNI DIRECTIONAL WEATHER STATION
SKYWATCH Windoo 3 is a weather station for your smartphone. It measures and indicates the following information. Windspeed – Wind chill factor. Humidity – Dew point. Pressure. 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 -25 °C to +60 °C. Humidity: Units: %RH, Resolution: 0.1 unit, Accuracy: ± 4.5 %RH, Measuring range: from 0 to 100 %RH. Pressure: Units: hPa, mbar, inHg, Resolution: 0.1 unit, Accuracy: ± 0.2 hPa, Measuring range: from 300 to 1100 hPa. P/N 13-16359 $114.95

SEE OUR WEBSITE FOR A COMPLETE LIST.

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
COCKPIT COOLERS

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

B-KOOL G5 PORTABLE COOLING SYSTEM

B-Kool™, named 2015 Best Portable Cooler by Aviation Consumer, provides an affordable solution to your portable cooling needs. B-Kool™ is not an evaporative cooler and therefore works well in high humidity areas.

Confirm your voltage needs prior to ordering. Whether used in airplanes, campers, antique cars, or boats, B-Kool™ Portable Coolers readily fit most small spaces. Compact and weighing less than 10 pounds when empty, B-Kool™ Portable Coolers are easy to carry and stow.

---

12 Volt Without Wireless Remote........P/N 13-22450 ........$319.00
12 Volt With Wireless Remote.........P/N 13-22452 ..........$395.00
24 Volt Without Wireless Remote......P/N 13-22451 ..........$339.00
24 Volt With Wireless Remote.........P/N 13-22453 ..........$439.00

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

AIRCRAFT CLIMATE IMPACT - PORTABLE AIRCRAFT AIR CONDITIONER

- Manufactured in St. Louis, Missouri.
- Durable, vacuum-sealed YETI enclosure.
- German-made water pump.
- Ideal size for most single engine piston aircraft.
- Fits great in Cessna 172/182/210, Bonanza (V-Tail and Conventional), Mooney, Piper Cherokee, Cirrus, and more.
- Heat exchanger removes humidity from air.

Charcoal .................................................P/N 13-23996 ......$1,195.00
White ..................................................P/N 13-23997 ......$1,195.00

AIRCRAFT CLIMATE IMPACT - DUAL PORTABLE AIRCRAFT AIR CONDITIONER

- Manufactured in St. Louis, Missouri.
- Durable, vacuum-sealed YETI enclosure.
- German-made water pump.
- Heat exchangers remove humidity from air.
- Ideal for large single-engine piston aircraft, twins, and turboprops

White ................................................P/N 13-23998 ......$1,595.00
Navy ....................................................P/N 13-23999 ......$1,595.00

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
WWW.AIRCRAFTSPRUCE.COM
COOLERS

YETI® TUNDRA® COOLERS

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.

FATWALL™ DESIGN
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.

PERMAFROST™ INSULATION
Pressure-injected commercial grade polyurethane foam in the walls and lid makes sure your ice stays ice.

<table>
<thead>
<tr>
<th>Cooler</th>
<th>Part No.</th>
<th>Price</th>
<th>Weight</th>
<th>Exterior</th>
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<td>Height</td>
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<td>Tundra 35</td>
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<td>10&quot;</td>
<td>L 15&quot; W 10-1/2&quot;</td>
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<td>Seafoam</td>
<td>13-22129</td>
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<td>13-19109</td>
<td>$325.00</td>
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<td>10-1/8&quot;</td>
<td>L 24-1/2&quot; W 12&quot;</td>
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<td>White</td>
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<td>18 &quot;</td>
<td>L 33-1/4&quot; W 18&quot;</td>
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<td>12&quot;</td>
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<td>Tundra 105</td>
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<td>White</td>
<td>13-19122</td>
<td>$500.00</td>
<td>36 lbs</td>
<td>20&quot;</td>
<td>L 30-1/2&quot; W 19-1/2&quot;</td>
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<td>Tan</td>
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<td>14-1/4&quot;</td>
<td>L 24-1/2&quot; W 14&quot;</td>
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<td>Tundra 110</td>
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<td>White</td>
<td>13-19124</td>
<td>$550.00</td>
<td>39 lbs</td>
<td>20&quot;</td>
<td>L 37&quot; W 18 &quot;</td>
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<td>Tundra 125</td>
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<td>13-19125</td>
<td>$600.00</td>
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<td>20&quot;</td>
<td>L 40&quot; W 19-1/2&quot;</td>
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<td>Tundra 160</td>
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<td>13-19126</td>
<td>$750.00</td>
<td>54 lbs</td>
<td>21-1/2&quot;</td>
<td>L 45&quot; W 19-1/2&quot;</td>
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<td>Tundra 210</td>
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<td>White</td>
<td>13-19127</td>
<td>$900.00</td>
<td>62 lbs</td>
<td>24&quot;</td>
<td>L 39-3/8&quot; W 25-1/2&quot;</td>
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<td>Tundra 250</td>
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<td>White</td>
<td>13-19128</td>
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<td>70 lbs</td>
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<td>L 55&quot; W 22-5/8&quot;</td>
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<td>Tundra 350</td>
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<td>White</td>
<td>13-19129</td>
<td>$1,500.00</td>
<td>89 lbs</td>
<td>23-1/4&quot;</td>
<td>L 63-1/4&quot; W 24-1/2&quot;</td>
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</tbody>
</table>

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.

DRYHIDE™ SHELL
The Hopper’s high-density fabric is waterproof and resistant to mildew, punctures, and UV rays. The liner is made from an FDA-approved food-grade material.

COLDCELL™ INSULATION
Closed-cell rubber foam offers far superior cold-holding to ordinary soft coolers.

HYDROLOK™ ZIPPER
The toughest, highest-performing waterproof and leakproof cooler zipper in the world.

<table>
<thead>
<tr>
<th>Hopper Soft Cooler</th>
<th>Charcoal</th>
<th>Price</th>
<th>Navy</th>
<th>Price</th>
<th>Weight</th>
<th>Outside</th>
<th>Inside</th>
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<tbody>
<tr>
<td>FLIP 8</td>
<td>13-22252</td>
<td>$200.00</td>
<td>13-24223</td>
<td>$200.00</td>
<td>2.8 lbs.</td>
<td>8” x 10-1/2&quot; x 11-1/2”</td>
<td>6-1/4” x 7-1/2&quot; x 9-3/4”</td>
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<tr>
<td>FLIP 12</td>
<td>13-22068</td>
<td>$250.00</td>
<td>13-23246</td>
<td>$250.00</td>
<td>3.1 lbs.</td>
<td>10” x 11-1/2&quot; x 12-5/8”</td>
<td>8” x 9” x 11”</td>
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<tr>
<td>FLIP 18</td>
<td>13-22253</td>
<td>$300.00</td>
<td>---</td>
<td>---</td>
<td>5.1 lbs.</td>
<td>10-3/4” x 13” x 16-1/4”</td>
<td>8-1/2” x 10-1/4” x 14-1/4”</td>
</tr>
</tbody>
</table>

VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE YETI PRODUCTS!
Prices Subject to Change Without Notice - Valid as of June 1, 2023.

COOLERS - RV ACCESSORIES

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. ROTOLOME CONSTRUCTION - Makes it armored to the core and virtually indestructible. NO SWEAT™ DESIGN - Keeps it dry on the outside.

Cooler | Part No. | Price | Weight | Exterior | Interior
--- | --- | --- | --- | --- | ---
TANK 45 | 13-19154 | $200.00 | 13 lbs | L 21" W 21" | 13/7 8
| DesertTan | 13-19134 | $200.00 | 13 lbs | L 21" W 21" | 13/7 8
| Seafoam | 13-22133 | $199.99 | 13 lbs | L 21" W 21" | 13/7 8

TANK 85 | 13-19137 | $250.00 | 20 lbs | L 25-1/2" W 25-1/2" | 16 1/2 lbs
| DesertTan | 13-19138 | $250.00 | 20 lbs | L 25-1/2" W 25-1/2" | 16 1/2 lbs
| Seafoam | 13-22134 | $249.99 | 20 lbs | L 25-1/2" W 25-1/2" | 16 1/2 lbs

YETI® RAMBLER™ DRINKWARES
The Rambler series of drinkware is the first line of YETIs 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 in 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.

Rambler | Size | Outside | Stainless | White | Seafoam | Black | Navy | Sandstone | Pink | Nordic Purple | Nordic Blue | Price
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Lowball | 10 oz. | 4 1/8" x 3 1/2" | 13-19154 | -- | 13-19828 | 13-19832 | 13-19834 | -- | -- | -- | -- | $19.99
Bottle with Hotshot Cap | 12 oz. | 7 1/8" x 3 1/2" | 13-20881 | -- | 13-22244 | 13-21054 | 13-21056 | -- | -- | -- | -- | $25.00
Mugs | 14 oz. | 3 3/4" x 5" | 13-20861 | 13-21058 | 13-21060 | -- | -- | -- | -- | -- | -- | $30.00
Tumbler | 20 oz. | 6 7/8" x 3 1/2" | 13-20868 | 13-21062 | 13-21064 | -- | -- | -- | -- | -- | -- | $35.00
Bottle with Chug Cap | 26 oz. | 10 1/4" x 3 3/8" | 13-20985 | 13-22789 | 13-22092 | 13-22094 | 13-22096 | -- | -- | -- | -- | $40.00
Tumbler | 30 oz. | 7 7/8" x 4" | 13-20891 | 13-22129 | 13-22087 | 13-22089 | -- | -- | -- | -- | -- | -- | $38.00
Bottle | 18 oz. | 9 1/2" x 3" | 13-19157 | -- | 13-19832 | 13-19834 | 13-19836 | -- | -- | -- | -- | $30.00
Botte | 36 oz. | 10 3/4" x 3 3/4" | 13-19158 | 13-19124 | 13-19838 | 13-19838 | 13-21535 | -- | -- | -- | -- | $50.00
Cotler | 12 oz. | 4 7/8" x 3-1/8" | 13-19167 | 13-19247 | 13-19824 | 13-19826 | 13-21528 | -- | -- | -- | -- | $25.00
Colster Slim | 12 oz. | 6-1/8" x 3-3/4" | 13-22800 | 13-23159 | -- | 13-23157 | 13-23158 | -- | -- | -- | -- | $25.00
Colster | 16 oz. | 6" x 3" | 13-23160 | 13-23162 | 13-22762 | 13-23161 | -- | -- | -- | -- | -- | -- | $30.00

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 leg 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 making dozens of custom 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. .......... $96.85

WEB.WW.AIRCRAFTSPRUCE.COM
**FLASHLIGHTS**

**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 ... $29.75
LED Mini Maglight 2-cell AA, w/Holster - Grey Pewter P/N 13-04917 ... $28.95
LED Maglight 2 Cell D hang pack- Black .......... P/N 13-04724 ... $48.50
LED Maglight 2 Cell D hang pack- Grey Pewter P/N 13-04880 ... $42.50
LED Maglight 3 Cell D hang pack- Black .......... P/N 13-04725 ... $52.90
LED Maglight 3 Cell D hang pack- Grey Pewter P/N 13-04881 ... $37.60

**ACCESSORIES PACK** - Includes: Pocket clip, lanyard wrist strap with key ring, anti-roll device, red, clear, and blue lenses. P/N 13-04727 ... $5.35

**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.

<table>
<thead>
<tr>
<th>Color</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
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<td>13-16539</td>
<td>$57.75</td>
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<tr>
<td>Red</td>
<td>13-16540</td>
<td>$47.95</td>
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<td>Gray</td>
<td>13-16541</td>
<td>$47.95</td>
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<tr>
<td>Blue</td>
<td>13-16542</td>
<td>$46.50</td>
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**MAGLITE D CELL ACCESSORY PACK**

Mounting Brackets (Fit D-Cell Only) Mount your Maglite® 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 also. P/N 13-04886 $11.85

**MAGLITE FLASHLIGHTS**

Mini Maglight AA - Black ................. P/N 13-04913 ... $16.50
Maglight 2 Cell D - Black .............. P/N 13-04915 ... $27.50
Replacement Bulb for 2D Cell ....... P/N 13-13594 ........... $7.50

**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.

<table>
<thead>
<tr>
<th>Color</th>
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<td>$39.50</td>
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<tr>
<td>Blue</td>
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**VANTAGE VUE WIRELESS WEATHER STATION**


Mount Pole Kit.................................. P/N 13-11576 ....... $46.90
Mounting Tripod.................................. P/N 13-04569 ........ $103.75

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, locksmiths, 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length</th>
<th>Flex</th>
<th>Price</th>
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<tbody>
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<td>Mini Pro</td>
<td>6&quot;</td>
<td>11.5&quot;</td>
<td>2-AAA</td>
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<td>12-15150</td>
<td>Pro</td>
<td>15.75&quot;</td>
<td>24&quot;</td>
<td>3-AA</td>
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<td>12-10250</td>
<td>Removable Shaft</td>
<td>9.5&quot;</td>
<td>15.75&quot;</td>
<td>2-AAA</td>
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**AVIATOR’S QUIKLITE**

Extra Bright LED, available with Red, Green, White or Blue Light. Handy pocket clip and rotating arm. Rotating “light arm” allows you to place the light where you need it. Push-button On-Off switch with convenient 7 minute Auto-Off feature. Over 40 hours of light using replaceable lithium watch batteries (included).

Fits easily into shirt or uniform pocket.

Green LED QuikLite............................ P/N 13-02728 $4.50

**FLIGHT OUTFITTERS BUSH PILOT RECHARGEABLE FLASHLIGHT**

Illuminate the night with this powerful, rechargeable flashlight. Smart Select Dial provides five unique light modes that can be accessed without scrolling through each one. Blast up to 1,000 lumens of white light for safe preflight inspections, or provide up to 120 hours of low-level green light so you don’t disturb sleeping passengers. An adjustable beam provides spot and flood light modes, and there’s even a strobe setting for emergency signalling.

The Bush Pilot Flashlight is charged via a USB port, so you don’t have to worry about carrying AA batteries; it will recharge from your cigarette lighter, portable battery pack, or wall plug. Plus, the same charging port can provide output for keeping your phone at 100% (does not charge tablets). Constructed with aircraft-grade aluminum, the Bush Pilot Flashlight is water-resistant and tough enough to survive life in a bush pilot’s airplane. A magnetic base makes mounting to crew cars or luggage carts quick and easy—it’s perfect around the hangar. No flight bag is complete without this ultimate backup flashlight.

P/N 13-23255 .................. $99.95

**AVIATOR’S QUIKLITE**

Extra Bright LED, available with Red, Green, White or Blue Light. Handy pocket clip and rotating arm. Rotating “light arm” allows you to place the light where you need it. Push-button On-Off switch with convenient 7 minute Auto-Off feature. Over 40 hours of light using replaceable lithium watch batteries (included).

Fits easily into shirt or uniform pocket.

Green LED QuikLite............................ P/N 13-02728 $4.50

**FLIGHT OUTFITTERS BUSH PILOT RECHARGEABLE FLASHLIGHT**

Illuminate the night with this powerful, rechargeable flashlight. Smart Select Dial provides five unique light modes that can be accessed without scrolling through each one. Blast up to 1,000 lumens of white light for safe preflight inspections, or provide up to 120 hours of low-level green light so you don’t disturb sleeping passengers. An adjustable beam provides spot and flood light modes, and there’s even a strobe setting for emergency signalling.

The Bush Pilot Flashlight is charged via a USB port, so you don’t have to worry about carrying AA batteries; it will recharge from your cigarette lighter, portable battery pack, or wall plug. Plus, the same charging port can provide output for keeping your phone at 100% (does not charge tablets). Constructed with aircraft-grade aluminum, the Bush Pilot Flashlight is water-resistant and tough enough to survive life in a bush pilot’s airplane. A magnetic base makes mounting to crew cars or luggage carts quick and easy—it’s perfect around the hangar. No flight bag is complete without this ultimate backup flashlight.

P/N 13-23255 .................. $99.95

**AVIATOR’S QUIKLITE**

Extra Bright LED, available with Red, Green, White or Blue Light. Handy pocket clip and rotating arm. Rotating “light arm” allows you to place the light where you need it. Push-button On-Off switch with convenient 7 minute Auto-Off feature. Over 40 hours of light using replaceable lithium watch batteries (included).

Fits easily into shirt or uniform pocket.

Green LED QuikLite............................ P/N 13-02728 $4.50

**FLIGHT OUTFITTERS BUSH PILOT RECHARGEABLE FLASHLIGHT**

Illuminate the night with this powerful, rechargeable flashlight. Smart Select Dial provides five unique light modes that can be accessed without scrolling through each one. Blast up to 1,000 lumens of white light for safe preflight inspections, or provide up to 120 hours of low-level green light so you don’t disturb sleeping passengers. An adjustable beam provides spot and flood light modes, and there’s even a strobe setting for emergency signalling.

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P/N 13-23255 .................. $99.95
### PILOT FLASHLIGHTS

**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 ..........$95.75

**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 | $146.75 |

**SUREFIRE LITHIUM BATTERIES**
Optimized for use in SureFire flashlights, SureFire lithium batteries pack 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 | $32.75 |
| 2 Pack | P/N 13-18715 | $5.35 |

**SEE WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE SELECTION OF SUREFIRE FLASHLIGHTS.**

**AVEO THE AVIATOR FLASHLIGHT**

| P/N 11-15181 | $429.00 |

**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-1 LED flightlight toggles 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 | $98.75 |

**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 | LED Powered, 250mA (1.25W) | 140 lm | Color Temp: 5000 K | CR: 80 | Cable Length: 6.5’ | Outer Dimensions: 2.5” x 3” x 1” | Meets FFC Class B Requirements | Velcro Cable Tie Included | IP68 (not fluid or dust proof) | Compatible with U1 Controller |
| P/N 12-04780 | $119.95 |

**NEBO MYPAL PERSONAL ALARM AND LIGHT**
The first NEBO flashlight designed just for women is the MYPAL, a rechargeable personal alarm and light. The various light modes make the MYPAL perfect for any task at hand, and the 650 lumen NEBO mode can light up any space. The MYPAL also features an ear-piercing, 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 13-22458 | $34.99 |

**SUREFIRE E1B-MV BACKUP™ FLASHLIGHT**
The sleek, ultra-compact E1B-MV was originally developed as backup lights for law enforcement pros. This outstand-ing everyday-carry light sets itself apart from the rest of the Backup family with its broad, useful MaxVision Beam™, created by a facetted reflector that shapes the LED’s light into a smooth, seamless wall of light that’s perfect for close-range applications and maintaining situational awareness........P/N 13-20652 ..........$152.00

**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 and range. 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 | $289.00 |
| Red Light | P/N 13-20656 | $285.00 |

**SUREFIRE FURY-DFT FLASHLIGHT**
The “DFT” stands for dual fuel tactical, and represents the natural evolution of the best-selling Fury Tactical flashlight into a single-output 1,500 lumens light that can also function as a searchlight. The dual fuel feature means the light can be powered by either two 123A lithium batteries or a single economical 18650 lithium-ion rechargeable battery. The high-strength aerospace aluminum body and tailcap are knurled for a secure grip and Mil-Spec hard anodized for extreme resistance to abrasion and corrosion. ..........P/N 13-21609 ..........$249.95

**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 ..........$63.75

**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 13-20660 ..........$279.95

**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 feature 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 is designed to fit your peripheral vision, one of all 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. This ultra-compact, dual-output feature 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 is designed to fit your peripheral vision, one of all these factors, it better maintains your overall situational awareness, crucial for safely navigating in the dark. ..........P/N 13-22301 ..........$134.00
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 XR-E, which delivers unprecedented levels of bright white light. The legendary 7090 XR-E is tested to the highest standards in the LED industry. The white light generated is as cool as HID with around 4000K to 5000K. 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-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-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.

ACCESSORIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<td>WF-138C</td>
<td>Charger for XeVision XV-C2C</td>
<td>13-05141</td>
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<td></td>
<td>Just the charger for the WF-123 combo package</td>
<td>13-05140</td>
<td>$31.50</td>
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<tr>
<td>CR123A</td>
<td>Single Cell Lithium Technology</td>
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<td>CR123AX2</td>
<td>Twin Cell Lithium Batteries</td>
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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 perfect for general flashlight use, while the red LED is perfect when you need minimal light, such as when reading a map. A lightweight aluminum casing offers great durability and will hold up to heavy daily use.

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Dia</th>
<th>Bulb Life</th>
<th>Price</th>
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<tr>
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<td>11.5&quot;</td>
<td>2-AAA</td>
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<td>12-15150</td>
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<td>12-10250</td>
<td>Removable Shaft</td>
<td>9.5&quot;</td>
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BEND-A-LIGHT

A powerful, high-intensity LED provides broad, even flood lighting. The rotating magnetic clip gives you hands-free lighting by attaching to virtually anything. The Bend-A-Light is available in 3 lengths and 3 different lamps to choose from. All Bend-A-Light models are made in USA and come with batteries installed.

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 perfect for general flashlight use, while the red LED is perfect when you need minimal light, such as when reading a map. A lightweight aluminum casing offers great durability and will hold up to heavy daily use.

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<th>Price</th>
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<tr>
<td>12-15020</td>
<td>Replacement Lamp</td>
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<td>12-12110</td>
<td>Krypton Lamp</td>
<td>5/32&quot;</td>
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PILOT’S HANDY LANYARD 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.

PCO LIGHTS

<table>
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<tr>
<th>Part No.</th>
<th>Description</th>
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<th>Bulb</th>
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<td>1 AAA</td>
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<td>$15.94</td>
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</table>
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 $39.99

NVIS FINGER LIGHT PRO

Standard Finger Light Pro lights are available in Red or White. These lights are not NVIS/NVG compatible. The new Pro version powers a 3mm White or Red LED specifically selected to match a laser cut Lexan filter material.

The 3mm LED is recessed inside the body of the light. This means less lateral visibility, ideal to reduce canopy glare and increase light discipline. It was developed to accommodate the F-22, and was tested with several rotorcraft types.

White P/N 13-22225 $23.70
Red P/N 13-22226 $23.70

NEBO TELESCOPIC PEN

All of the TelePen essentials plus a magnetic cap...now that's something to write home about.

Features: • Ballpoint pen • Telescopic design • 3 black ink refills included • Magnetic cap • V-clip key ring attachment

P/N 13-22313 $10.50

NEBO SLIM FLASHLIGHT

The NEBO SLIM is a thin, ergonomically 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 $39.99

NEBO PAL™ PLUS

The PaL+ is a 3-in-1 powerbank, flashlight and folding knife that conveniently fits in your pocket, 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 $44.99

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 $39.99

MINI LED FLASHLIGHTS

Only 3.5 inches long. NOT water resistant. DUAL Ultra-bright LEDs with lifetimes of 100,000+ hours, never break, and provide smooth illumination.

• Thumbwheel Brightness Control
• Energy Efficient -- Up to 320+ hours at the dimmest setting, 12+ hours at the brightest, from one 9V Alkaline battery

• Exclusive brightness regulation circuitry -- keeps the LEDs shining bright as batteries age, • 9 Volt Battery & 20 inch neck strap included

White & Red P/N 13-04696 $32.80
Red & Green P/N 13-04697 $32.80

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.

AA Flashlight Holder: 465” ID
AAA Flashlight Holder: 675” ID
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.

The new Pro version powers a 3mm LED, and increase light discipline. It was developed to accommodate the F-22, and was tested with several rotorcraft types.

The Tactikka +RGB dual color LED headlamp features red, green and blue lights. The new Pro version powers a 3mm LED, and increase light discipline. It was developed to accommodate the F-22, and was tested with several rotorcraft types.

The Tactikka +RGB dual color LED headlamp features red, green and blue lights.

FLIGHT OUTFITTERS DUAL COLOR HEADLAMP

Flying at night can be a daunting task. Having both hands free to handle the workload during these tense situations is extremely important. This dual color headlamp puts the right type of light right where you need it without tying up your hands. Dual switches allow you to turn on just the white light, or just the red light. This means you don’t have to scroll through different lights and ruin your night vision. Each color of light has a high and low setting to maximize battery life. Uses 3AAA batteries (included) P/N 13-18183 $29.95

BIG LARRY™ 2 POWER WORK LIGHT - STORM GRAY

The Big Larry 2 outputs 500 lumens with the C-O-B work light and 200 lumens from the top flashlight. The red C-O-B light is perfect for distress signaling or roadside emergencies. The steel clip and magnetic base provide convenient hands-free lighting options.

4 Light Modes: • Top light (200 lumens) - 8 hours / 75 meters • Work light (500 lumens) - 2.5 hours / 31 meters • Red light (40 lumens) - 20 hours / 7 meters • Red hazard flasher - 40 hours / 7 meters

Design: • Fully dimmable • Direct-to-Red Feature • Memory Power Setting • Anodized aircraft-grade aluminum; water and impact-resistant • Steel belt/pocket clip • Powerful magnetic base

P/N 13-23699 $29.99

Prices Subject to Change Without Notice - Valid as of June 1, 2023.

WWW.AIRCRAFTSPRUCE.COM

983
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.

Features:
- Chrome Plated Steel Clamp
- Stainless Steel Hardware
- High Strength Polymer
- Plastic Details
- Tough Nylon Shock Cord
- Will Accept Any Shape
- Hold Object Securely

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.

Features:
- For smaller flashlights/objects
- Magnetic 2” diameter base
- 25 lb. Magnetic Pull

Specifications:
- Overallweight: 4 oz.

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.

Features:
- Chrome Plated Steel Clamp
- Stainless Steel Hardware
- High Strength Polymer
- Plastic Details
- Tough Nylon Shock Cord
- Will Accept Any Shape
- Hold Object Securely

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.

Features:
- Chrome Plated Steel Clamp
- Stainless Steel Hardware
- High Strength Polymer
- Plastic Details
- Tough Nylon Shock Cord
- Will Accept Any Shape
- Hold Object Securely

P/N 13-04008 ...........$37.50

SIDESTICK CONTROL ARM RESTS
The side stick control arm rests will steady the hand, which improves flying and reduces wrist and arm fatigue. The arm rests were designed by an orthopedic specialist to reduce wrist and hand carpel tunnel syndrome. They can also be used for throttle rests. Color: Black. ABS plastic. Furnished as right/left set. ...........P/N 13-03265 ...........$25.85

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 ...........$25.50

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.

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 ...........$46.95
**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.

**Features:** 14 Tools • Stainless Steel Body • Spring-action Needlenose Pliers • Spring-action Regular Pliers • Spring-action Wire Cutters • Phillips Screwdriver • Ruler (2.54 cm) • Bottle Opener • Can Opener • Wire Stripper • Removable Pocket Clip • Blade Length: 2.6 inches. Wingman Length (Closed): 3.8 inches

**Specifications:** P/N 13-11705 $69.95

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**LEATHERMAN WAVE TOOL**

Needlenose 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 Bit.

**Features:** 17 Tools • 420HC Point Knife • 420HC Serrated Knife • Needle-nose Pliers • Regular Pliers • Wire Cutters • Hard-Wire Cutters • Wire Stripper • Saw • Scissors • Wood/Metal File • Diamond-Coated File • Large Bit Driver • Small Bit Driver • Large Screwdriver • Ruler (8 inch/19 cm) • Bottle/Can Opener • Included Bits: Phillips and Flat Tip Eyeglasses Screwdriver Bit, Phillips #1-2 and 3/16" Bit

**Specifications:** P/N 13-03289 .........$118.75

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**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 practical 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 S30V steel blade resists corrosion.


**Specifications:** P/N 13-21325 .........$189.75

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**LEATHERMAN REBAR**

With the new Rebar, Leatherman fans will immediately recognize the iconic box-like shape found in Tim Leatherman’s original PST design. The Rebar pliers have been optimized for strength and feature replaceable wire/hard-wire cutters—a first for a four-inch tool from Leatherman. With all the features to get even the toughest jobs done, in a smaller, slimmer size, the new Rebar is sure to be an instant hit on job sites and home projects the world over.

**Features:** Lanyard Ring • All Locking Pliers • Stainless Steel • Black Oxide Version Available • 25-Year Warranty • Leather or Nylon Sheath

**Specifications:** P/N 13-12777 .........$79.95

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**VISIT OUR WEBSITE TO VIEW OUR COMPLETE LISTING FOR LEATHERMAN TOOLS.**

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
**WIRE MARKERS – SAFETY STEPS**

**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 electrocution 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.

**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, confound 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.


**LARGE AIRPORT CONE MARKERS**

Avlite’s range of airfield cone markers is rotationally-molded using UV-stabilised polyethylene, providing exceptionally long-life without the need for painting.

- **Large Cone Marker Yellow**
  - P/N 11-14012...........$83.75
- **Large Cone Marker Orange**
  - P/N 11-14013...........$83.75
- **Mini Cone Marker Blue**
  - P/N 11-14014...........$37.85

**UNIVERSAL SAFETY STEP**


P/N 13-18576 ...............$72.75

**LO-COMMERCIAL 6 INCH SAFETY STEP**


P/N 13-18566 ...............$72.75

**COMMERCIAL 8 INCH SAFETY STEP**


P/N 13-18577 ...............$109.75

**FOLDING SAFETY STEPS**


- **Small**
  - P/N 13-18578 ...............$142.90
- **Large**
  - P/N 13-18579 ...............$163.75
- **Extra Large**
  - P/N 13-18580 ...............$206.95

**HANDLE SAFETY STEP**


**INDUSTRIAL SAFETY STEPS**


- **8 Inches**
  - P/N 13-18582...........$107.80
- **10 Inches**
  - P/N 13-18583...........$122.75
- **12 Inches**
  - P/N 13-18584...........$133.75
- **15 Inches**
  - P/N 13-18585...........$132.75

**SAFETY STEP ACCESSORIES**

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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.

RB 3025
Frame: Arista
Lens Color: G-15 XL T 58mm
Part No.: 13-04992
Price: $163.00

RB 3025
Frame: Black
Lens Color: G-15 XL T 58mm
Part No.: 13-04990
Price: $163.00

RB 3025
Frame: Gunmetal
Lens Color: Polarized Natural Green 58mm
Part No.: 13-04991
Price: $213.00

RB 3025
Frame: Arista
Lens Color: Polarized Natural Green 58mm
Part No.: 13-04993
Price: $213.00

G-15XLT is a Grey Color

SCHEYDEN FIXED HYBRID COMPOSITE SUNGLASSES REVELSTROKE

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 wearers nose and back up again to adapt to changing light conditions with the push of a finger. Scheyden Deluxe Case Pack is included. ............$259.00/ea.

Part No. Description Part No. Description
13-06993 Bronze Havana 13-06992 Gray CR39
13-06994 Havana Tortoise Gray CR39 13-06991 Bronze CR39

SCHEYDEN FIXED GEAR WAYLITE SUNGLASSES

A timeless style mixed with aviation specifications. The Waylite is fashionably durable. A first of its kind, the Waylite is an ideal fit for a wide range of facial sizes.

Anti-Reflective, Anti-Glare and 100% Protection from UVA & UVB.

Lens Options:
- 7-Layer Non-Polarized (Aviation, Golf, Driving)
- 8-Layer Polarized (Fishing, Boating, Driving)

FRAME STYLES

Black
Havana Tortoise
Clear

Description Part No. Price
Black Bronze 13-18030 $169.00
Black Bronze Polarized 13-18031 $199.00
Black Gray 13-18032 $169.00
Black Gray Polarized 13-18033 $199.00
Havana Tortoise Bronze 13-19038 $199.00
Havana Tortoise Bronze Polarized 13-19039 $199.00
Havana Tortoise Gray 13-19040 $169.00
Havana Tortoise Gray Polarized 13-19041 $199.00
Clear Bronze 13-19034 $169.00
Clear Bronze Polarized 13-19035 $199.00
Clear Gray 13-19036 $169.00
Clear Gray Polarized 13-19037 $199.00

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.

Frame Part No. Price
Gloss Black High Contrast Bronze CR39 13-06991 $259.00
Gloss Black Neutral Grey CR39 13-06992 $259.00
Havana Tortoise High Contrast Bronze CR39 13-06993 $259.00
Havana Tortoise Neutral Grey CR39 13-06994 $259.00

SCHEYDEN CLASSIC FLIP-UP SUNGLASSES

El Capitan
Avalon

Sonoma
Avalon Small

Scheyden 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, and 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 along with an aluminum hard case and leather flip sport case. Lifetime warranty on all titanium frames and the best lens replacement warranty in the eyewear industry.

Frames are Natural Titanium.

RB 3025
Frame: Arista
Lens Color: G-15 XL T 58mm
Part No.: 13-04992
Price: $163.00

RB 3025
Frame: Black
Lens Color: G-15 XL T 58mm
Part No.: 13-04990
Price: $163.00

RB 3025
Frame: Gunmetal
Lens Color: Polarized Natural Green 58mm
Part No.: 13-04991
Price: $213.00

RB 3025
Frame: Arista
Lens Color: Polarized Natural Green 58mm
Part No.: 13-04993
Price: $213.00

G-15XLT is a Grey Color

SCHEYDEN FIXED GEAR SUNGASSES

Mustang Albatross C-130

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 Bronze lens offers 100% UVA & UVB protection and is recommended for low light conditions.

Model Frame Lens Part No. Price
Mustang Natural Titanium Bronze Polarized 13-11479 $349.00
Mustang Natural Titanium Bronze Non-Polarized 13-11478 $309.00
Mustang Natural Titanium Gray Polarized 13-11481 $349.00
Mustang Natural Titanium Gray Non-Polarized 13-11480 $309.00
Albatross Albatross Natural Titanium Bronze Polarized 13-11482 $309.00
Albatross Natural Titanium Bronze Non-Polarized 13-11483 $309.00
C-130 Titanium Gray Polarized 13-16269 $349.00
C-130 Titanium Gray Non-Polarized 13-16270 $309.00
C-130 Stealth Black Gray Polarized 13-16271 $349.00
C-130 Stealth Black Gray Non-Polarized 13-16272 $309.00
C-130 Swiss Gold Gray Polarized 13-16277 $289.00
C-130 Swiss Gold Gray Non-Polarized 13-16278 $289.00
C-130 Stealth Black Bronze Polarized 13-16279 $349.00
C-130 Stealth Black Bronze Non-Polarized 13-16280 $309.00
C-130 Swiss Gold Bronze Polarized 13-16279 $349.00
C-130 Swiss Gold Bronze Non-Polarized 13-16280 $309.00

Prices Subject to Change Without Notice - Valid as of June 1, 2023.

WWW.AIRCRAFTSPRUCE.COM
SUNGLASSES

ROTHCO G.I. TYPE PILOT SUNGLASSES

14-02118


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FLYING EYES HAWK SUNGLASSES

Lightweight, unbreakable Resilaime 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. Glossy Black Frame/Solid Grey Lens..........P/N 13-16455..........$165.75

SEE OUR WEBSITE FOR COMPLETE SELECTION OF FLYING EYES SUNGLASS.

ROTHCO SUNGLASSES

G.I. TYPE PILOT SUNGLASSES


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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)

GOLD

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GENERAL (OVAL)

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MATTE CHROME

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EYEWEAR COLLECTION

ORIGINAL PILOT (SQUARED)

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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>
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<th>Size</th>
<th>Lens</th>
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</table>

VISIT OUR WEBSITE FOR MORE SUNGLASS OPTIONS.

VISIT OUR WEBSITE FOR COMPLETE SELECTION OF FLYING EYES SUNGLASS.

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>
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VISIT OUR WEBSITE FOR MORE SUNGLASS OPTIONS.

WWW.AIRCRAFTSPRUCE.COM Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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 and is designed to withstand the impact forces you'll encounter inside the cockpit. In addition, this shell is engineered to maintain structural integrity in extreme temperatures. **Headset integration** - The AV-1 KOR's shell is designed to fit a wide variety of communication units to suit the wearers aviation needs. **Snap Lock TPR** - This rear mounted TPR strap secures the shield and utilizes a button snap closure system. 

SeeWWW.AIRCRAFTSPRUCE.COM for complete list of helmets and sizing charts.

### 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>
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</tr>
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</table>

VisitWWW.AIRCRAFTSPRUCE.COM for Pink MA-1 Jackets.

During the 1950s, MA-1’s became the choice of fliers who wore them to the ends of the earth. Today, the MA-1 is highly collectible in original condition. A popular model, the MA-1 features a quilted body lining and a Sherpa collar. This jacket is made with a durable nylon outer shell and is perfect for the hardworking, outdoorsy flier.

### Children’s Jackets

These are a Flightline original. They’re a reproduction of a classic bomber, complete with simulated fleece collar. They are sturdy made with many special touches that make it unique, such as an airplane zipper pull, authentic aviation patches & colorful graphic map liner.

<table>
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These are a Flightline original. They’re a reproduction of a classic bomber, complete with simulated fleece collar. They are sturdy made with many special touches that make it unique, such as an airplane zipper pull, authentic aviation patches & colorful graphic map liner.

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This is a well made reproduction of the famous MA-1 green nylon quilted. Same patches as our childrens bomber jacket. Made in authentic Sage Green, reversible to high-visibility Indian Orange for use in emergencies. Assortment of historical flight patches sewn onto jacket is a sure winner with kids.

<table>
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SUNGLASSES - FLIGHT JACKETS

METHOD SEVEN ASCENT AVIATOR FLT18 SUNGLASSES
Non-polarized for pilots, utilizing notch filtering technology. FLT lenses weigh in at 30% less than our SKY lenses. Medium tint and a VLT of 18% makes them a great choice for general and mixed conditions.

Specifications: • Eye Width: 58mm • Bridge Width: 14mm • Temple Length: 140mm • Base Curve: Base 6 ...........P/N 13-24364 ............$235.00

METHOD SEVEN ASCENT AVIATOR SKY 18 SUNGLASSES
SKY mineral glass lenses define the pinnacle of contrast and clarity. The SKY18™ has a medium VLT of 18%, making it a perfect choice for mixed conditions.

Specifications: • Eye Width: 58mm • Bridge Width: 14mm • Temple Length: 140mm • Base Curve: Base 6 ...........P/N 13-24331 ............$235.00

METHOD SEVEN AVIATRIX FLT18 SUNGLASSES
Designed specifically for female pilots, the Aviatrix is crafted from Japanese titanium and features tangle free nose pads. Lightweight and shatterproof, FLT lenses are the first to offer notch filtering in a durable polymer.

Specifications: • Eye Width: 57mm • Bridge Width: 15mm • Temple Length: 121mm • Base Curve: Base 6 ...........P/N 13-24332 ............$235.00

ULTRA FORCE SAGE CWU-45P FLIGHT JACKETS
Rothco’s CWU-45P (Cold Weather Uniform) Flight Jacket is designed with a water repelling nylon outer shell and a matching quilted polyester liner for optimal warmth; making this the ideal cold weather jacket you can own.

Specifications: • Rothco’s CWU-45P Flight Jacket Is The Ideal Cold Weather Jacket • 100% Nylon Water Repellent Outer Shell • 100% Polyester Quilted Liner Keeps You Warm • Two Fully Lined Cargo Pockets With Hook And Loop Closure • Zippered Utility Pocket And Pencil Pockets On Left Sleeve

SAGE

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BLACK

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METHOD SEVEN CULTIVATOR FX CLASSIC ANSI RATED SAFETY GLASSES
100% UV protection. Infrared heat reduction keeps eyes cool and moist plus an anti-reflective coating cuts glare. Designed for full spectrum LED and CMH lights. Meets or exceeds ANSI-287+ & CSA-Z94.3 Standards.

Specifications: • Eye Width: 68mm • Bridge Width: 16mm • Temple Length: 121mm • Base Curve: Base 6 ...........P/N 13-24335 ............$65.00

METHOD SEVEN PATRIOT SKY 9 SUNGLASSES
SKY mineral glass lenses define the pinnacle of contrast and clarity. The SKY9™ has a VLT of 9%, making it one of the darkest lenses on the market and suitable for extremely bright conditions.

Specifications: • Eye Width: 64mm • Bridge Width: 17mm • Temple Length: 135mm • Base Curve: Base 8 ...........P/N 13-24333 ............$235.00

METHOD SEVEN AVIATOR CLIP-ON FX SUNGLASSES
Non-polarized Clip-Ons offer 100% UV protection with reduced glare and infrared heat to keep your eyes comfortable on any flight. The lightweight, shatterproof lenses ship with a pouch and a case.

Specifications: • Lens Height: 45mm • Bridge Width: 12mm • Full Width: 132mm ........................................P/N 13-24344 ............$65.00

WOOD PROPELLER MAP CLOCK
The wooden shaped clock propellers are fabricated in Colombia through an artesan process using the best and finest tropical Woods such as Cedar, Pine and Mirpo.

Specifications: • Length: 29.5 inches • Clock Diameter: 75mm • Weight: 1 pound • Material: Mirpo Wood • Functioning: 1 AA battery (not included) P/N 13-24264 ...........$79.95

WOOD PROPELLER ALTIMETER CLOCK
The wooden shaped clock propellers are fabricated in Colombia through an artesan process using the best and finest tropical cedar wood.

Specifications: • Length: 29.5 inches • Clock Diameter: 75mm • Weight: 1 pound • Material: Cedar Wood • Functioning: 1 AA battery (not included) P/N 13-24263 ...........$79.95

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.

Specifications: • Lambskin bomber jacket • Authentic bomber styling with bi-swing back • Zip front • Two front zip pockets with side entry hand pockets • Cotton lining shows schematics of aircrafts • Inside zip pocket • Knit waist and cuffs • Brown Antique Lamb

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AVIATOR PHONETIC SIGN
Aviator Phonetic Sign is made from steel with a hammered copper paint finish.

Specifications: 12”w x 38”h .......P/N 13-24342 ...........$198.95
ULTRA FORCE BLACK
MA-1 FLIGHT JACKET
This Black MA-1 Flight Jacket features a fully reversible Orange lining, ribbed collar, 100% Nylon water repellent outer shell, Poly fiberfill lining and 4 front slash pockets. Rothco’s Flight Jacket has an extra full cut. Sizes and colors do vary.

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<td>$49.95</td>
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LARGE G-1 LEATHER FLIGHT JACKET
Reproduction of the coveted naval leather flying jacket featuring a genuine mouton fur collar.

Features:
• Premium Goatskin Leather • Bi-Swing Back for Free Range of Movement • Suitable for Mild or Colder Winter Climates ranging 25-40 Degrees Fahrenheit • Underarm Gussets • Knit Cuffs and Waistband • Legendary Pilot Jacket .............................P/N 13-14998-L........ $349.00

FLIGHT OUTFITTERS APPAREL

MEN’S KODIAK JACKET
Chart a course and go in this water- and wind-resistant streamlined beauty. It’s the kind of jacket you never leave the house without – an excellent companion for wherever the day takes you.

WOMEN’S KODIAK JACKET
Chart a course and go in this water- and wind-resistant streamlined beauty. It’s the kind of jacket you never leave the house without – an excellent companion for wherever the day takes you.

LEATHER MA-1 JACKET
Since its introduction in 1949, the Leather MA-1 Jacket has perennially been in style.

BUSH PILOT LIGHTWEIGHT HOODIE
This comfortable lightweight tri-blend t-shirt with a build in hood is a great addition for year-round wear.

MOUNTAIN RANGE T-SHIRT
Whether your adventure takes you to the mountains, the sea, or both, you’ll look good getting there in the Flight Outfitters Mountain Range T.

FLY IT LIKE YOU STOL IT T-SHIRT
STOL, an acronym for Short Take-Off and Landing, refers to the length of runway required for takeoffs and landings.

OFF GRID FLOATPLANE T-SHIRT
Off Grid T-shirt captures the spirit of adventure flying. Features a Deon Mitton photograph of a floatplane by a waterfall and the Flight Outfitters tagline – Pilot Your Own Adventure.

CLASS G ROAM T-SHIRT
When it’s just you and wild blue you need a t-shirt that properly qualifies you to roam.

BUSH PILOT T-SHIRT
Whether you’re an actual bush pilot, or you just dream of being one, this t-shirt honors the spirit of Bush Pilots.

EXPEDITION T-SHIRT
This limited-edition T-shirt features a mountain design twist on the traditional Flight Outfitters logo.

PILOT STUFF T-SHIRT
Vintage cotton Flight Outfitters-style with a little nod to the flyboys and girls out there logging hours.

OUTFITTERS T-SHIRT
Flight Outfitters always encourages you to pilot your own adventure.

FLY IT LIKE YOU STOL IT T-SHIRT
STOL, an acronym for Short Take-Off and Landing, refers to the length of runway required for takeoffs and landings.

Gray Trucker Hat
The Flight Outfitter’s Trucker Hat looks good and feels great and the front features the classic Flight Outfitters logo.

Brown Trucker Hat
The Flight Outfitter’s Trucker Hat looks good and feels great and the front features the classic Flight Outfitters logo.

SEE WEBSITE FOR SIZES AND PART NUMBERS FOR FLIGHT OUTFITTERS APPAREL.

WWW.AIRCRAFTSPRUCE.COM
AIRCRAFT SPRUCE APPAREL

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.:

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AIRCRAFT SPRUCE POLO SHIRTS
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.

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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/haki trim and “Aircraft Spruce & Specialty Co” on left chest.

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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. Caps, ours features a no-button construction for comfort while wearing your head.

<table>
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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>
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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.

Custom Aircraft Models ................................. P/N 13-08837 ................................ $535.00
Premium Plus Custom Models .......................... P/N 13-08050 .................................... $699.00
**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.

- 6 inches or less, order Size 7
- 6 1/2 to 7 inches, order Size 8
- 7 to 7 1/2 inches, order Size 9
- 7 1/2 to 8 inches, order Size 10
- 8 inches or more, order Size 12

**Color/Size Part No. Price**

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</table>

**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.

**Color/Size Part No. Price**

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**VISIT OUR WEBSITE FOR PART NUMBERS FOR NAVY & DESERT TAN GLOVES**

**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.

**Replacement Split Lenses - Clear** P/N 13-06100 $36.50

**Replacement Split Lenses - Tinted** P/N 13-06200 $49.50

**MARK 4 SILVER CROSS GOGGLES**

All leather face mask, colour matched head bands, Split lenses, bright polished and chrome plated frames, Sliding Nose Bridge Adjustment.

**Replacement Lenses for Silver Cross Goggles**

| Clear, set of 2 | P/N 13-06100 | $36.50 |
| Smoke, Set of 2 | P/N 13-06200 | $49.50 |

**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 $24.50

**Large** P/N 13-09814 $24.50

**X-Large** P/N 13-09815 $24.50

**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.

**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**

*Prices Subject to Change Without Notice - Valid as of June 1, 2023.*

**WWW.AIRCRAFTSPRUCE.COM**
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 base 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 tuck your feet under you for comfort or convenience. The tripod design also means 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 performance vehicles, and let you tuck your feet under you and the legs always stay out of the way. It lets you use your natural body movements and trunk strength to get where you need to go without having to roll over obstacles that trip and tip ordinary little wheel stools. P/N 13-12330 ............. $197.85

RED VIPER AIRPLANE POSITIONER

Own a small airplane? Having trouble positioning it around in your hangar, garage, etc.? Try RED VIPER Positioners™ they really work! Will hold up to 6000 lbs on a 3 tire airplane. Extremely LOW to the ground (only 1/2 inches ground to dolly) so wheel assembly clearance & tire fenders are never an issue. The side panels are only 3 1/2 inches height. Supports tire thicknesses up to 9 inch & wheel diameter up to 26 inches. Just roll your airplane onto dollies & glide 360 degrees effortlessly. P/N 13-17910 ............. $495.00

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 5 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

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SHURE-STEP® II

The Shure-Step II is a 10 inch high step 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.

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
- Yellow: $147.75
- Black: $139.97

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.

- Yellow: $149.97
- Black: $147.75

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® II - Shure-Step® will float
• All Shure-Step® products are rated at holding 500 lbs.

- Yellow: $149.97
- Black: $147.75

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:
• Step Ladder
• Ladder Height 5 ft.
• Number of Steps 3
• Platform Width (In.) 13-1/2
• Height to Platform (Ft.) 3
• Bottom Width (In.) 20
• Base Spread (In.) 34
• Step Width (In.) 3
• 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 ............. $324.00

HANGARBOT DOOR CONTROLLER

Enjoy the convenience of opening and closing your hangar door from the cockpit with the HangarBot Door Controller! Our premiere door controller system is custom made to the specifications of your hangar door. Compatible with nearly all electric and hydraulic Industrial doors with both momentary and continuous hold models as well, this device provides control and connectivity to your door from anywhere in the world. Tailored to your specific hangar door opening and closing it is as easy as a one-tap or continuous hold feature in our proprietary mobile application.

Specifications:
• Battery Life: Internal rechargeable battery MicroUSB cable included
• Mounting: Industrial Velcro
• Shipping Dimensions: (L x W x H) 6.625” x 2.375” x 1.625”
• Shipping Weight: 0.5 lbs

Note: This product is NOT compatible with manual latch hangar doors.

Note: Your Door Controller is as unique as you are, and will need additional information in order to fulfill this order.

www.aircraftspruce.com

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
iFlightPlanner for iPad does support worldwide GPS tracking and currently supports flight planning within the United States, however file flight plans from any computer or their iPad. Note iFlightPlanner Features:

- Complete Builder’s log to satisfy FAA requirements

Prices Subject to Change Without Notice - Valid as of June 1, 2023.

Before stepping into the cockpit for your first transition lesson. Most efficient and cost effective ways to learn the G1000 or Perspective glass cockpit systems. Instructors agree that the cockpit is not an ideal learning environment. The cockpit 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 car 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 27 IN VESA spec monitor or three 19 – 30 IN widescreen monitors makes it an instant hit with all flight simmers.

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 gross 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 …….. $148.95

KITLOG PRO SOFTWARE
KitLog Pro is an organizational tool that allows 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 Glastron, 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 TRESPCOTT’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 and programming 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 …….. $36.95

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 for iPad, iFlightPlanner allows pilots to intuitively plan briefs, calculate weight & balance and file flight plans from any computer or their 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.

Annual …….. P/N 13-16354 …….. $99.99
Plus Annual …….. P/N 13-23577 …….. $49.99

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 experience 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 13-07341 …….. $199.00

WEATHER STATEMENT GROUNDSCHOOL
A CD-ROM-based course on METAR’s and TAF’s. Nearly 2 hours of stunning, interactive training is provided. Promotes learning through human interaction—not just rote memorization. A remarkable feature is the interactive weather controls, which enable the user to “control the weather.” Since weather codes are confusing to interpret, the user can click the “Speak-It” button to hear a verbal translation. This allows the user to correlate codes with a true, visual picture and understanding of the weather. This tutorial CD is perfect for all pilots, from students to rated pilots who wish to remain sharp and proficient. It’s also ideal for airport personnel, dispatchers, and anyone else who needs to view aviation weather information.

Software …….. P/N 13-05575 …….. $59.00
Download Version …….. P/N 13-11404 …….. $55.00

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 “controls” the tutorial. Each maneuver begins with step-by-step instructions 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 monitor quality • 1280 x 720x 30Hz Resolution • Runs on MAC and PC (Mac OSX 10 / Windows Vista, 7) (requires Adobe Flash 11 and Adobe Air - free downloads)

Note: This Software does not run on iPad or iPhone min. 1 GB RAM recommended.

P/N 13-12737 …….. $199.00

www.aircraftspruce.com
**FLIGHT SIMULATORS – SOFTWARE**

**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 ............$92.80

**FLIGHTSTICK**
- Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 24 buttons – X, Y, and Z axes for Aileron, Elevator, and Throttle control – 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 ............$142.75

**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 ............$128.75

**LOGITECH EXTREME 3D PRO JOYSTICK**

When the pressure is on, your stick performance is the difference between victory and total oblivion. The Extreme 3D Pro twist handle joystick will never let you down. The 12 programmable buttons and 8-way rubber hat switch give you optimum control, personalized to your taste. Whether you’re dropping bombs at a distance or firing guns in a dog fight, the stable and precise Extreme 3D Pro will have you dominating the enemy in no time.

Benefits:
- Dominate the skies or the ground with the control of 12 well-placed, fully programmable buttons and a rapid-fire trigger
- Home in on your target with the deadly accurate direction control of the twist handle
- Smooth and accurate throttle settings are a major bonus whether you’re entering the fray or bugging out

P/N 13-04340 ............$41.95

**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. COMM 1 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. 6 MB hard drive space. Windows 95. 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 13-0093 ............$112.95
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 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, 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 touches: • P/N 13-15906 $2,795.00

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.

$4,594.97

Part No. | Model Number | Description | Starting Price
---|---|---|---
13-15889 | Redbird LD | Wrap around visuals without cockpit enclosure | $32,800.00
13-15890 | Redbird SD | Enclosed similar to FMX, but no motion | $42,800.00
13-15891 | Redbird FMX | Full motion, enclosed cockpit, flagship model | $64,800.00
13-15892 | Redbird MX2 | Full motion, compact for limited space | $58,800.00
13-15893 | Redbird MCX | Full motion, ideal for CFI, CFII, CRM Training | $89,800.00
13-15902 | Redbird XWIND | Full motion, teaches cross wing techniques | $31,900.00
13-15903 | Redbird XWIND SE | Full motion, with more LCD exterior | $34,900.00
13-15870 | Redbird O-1123 | TD & TD2 Sim. Come with a single screen. This kit adds 2 side screens for a panoramic view | $1,695.00
13-15860 | Redbird O-1109 | Redbird Table For TD And TD2 | $629.00

$1,695.00

Part No. | Model Number | Description | Price
---|---|---|---
13-19645 | Redbird Control Yoke | $799.00
13-19642 | Redbird Single Engine Vernier Throttle Quadrant | $599.00
13-19643 | Redbird Twin Engine Lever Throttle Quadrant | $599.00
13-23368 | Redbird Alloy Throttle Mounting Arms | $83.75
13-23369 | Redbird Corvus Foreflight Ads-B Connection | $599.00

WWW.AIRCRAFTSPRICE.COM
SAITEK SIMULATOR PRODUCTS

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 - ideal accompaniment for on-line multiplayer gaming. P/N 14-02845 $159.95

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: Attitude Indicator, Airspeed, Compass, Turn and Slip indicator, Vertical Speed. P/N 14-03010 $884.00

SAITEK X-56 PRO FLIGHT RHINO H.O.T.A.S. SYSTEM
Evolving the H.O.T.A.S. Design to meet the needs of the re-emerging space simulation genre. Saitek introduces the new X-56 Rhino H.O.T.A.S. System. Built to the same exacting standards of Saitek’s award-winning Pro Flight accessories range, the X-56 Rhino delivers a multitude of customizable options. Compatible Simulators: • Elite: Dangerous • Star Citizen • Flight Simulator X • Flight Simulator 2004 • X-Plane 10 • X-Plane 9 • DCS World. P/N 14-03295 $349.00

SAITEK PRO FLIGHT THROTTLE QUADRANT
Upgrade your flight simulation experience with the Saitek Pro Flight Throttle Quadrant. This makes an ideal addition to the Saitek Pro Flight Yoke System to expand the number of controls for your flight simulation setup. Set the levers to control aircraft throttles, adjust elevator trim, fuel mixture or even to engage reverse thrust during landing. The Pro Flight Throttle Quadrant will work in any major flight simulation to give you all the control you need. P/N 14-00601 $59.99

SAITEK PRO FLIGHT RUDDER PEDALS
Complete your virtual pilot’s controller setup and take flight simulation reality to the next level with the Pro Flight Rudder Pedals. Control the rudder and toe brakes of your aircraft with your feet - just like real pilots. Adjustable, smooth action gives you optimum control and realism, and brings you even closer to the experience of flying a real aircraft. P/N 14-00602 $169.99

SAITEK PRO FLIGHT SWITCH PANEL
Upgrade your flight simulation experience for Microsoft Flight Simulator X with the Saitek Pro Flight Switch Panel. Whether attached to the Saitek Pro Flight Yoke System, free standing on a desk or mounted into your own cockpit setup, the Pro Flight Switch Panel is an ideal way to expand the number of controls for your flight simulation setup. P/N 14-00714 $146.75

SAITEK PRO FLIGHT RADIO PANEL
Upgrade your flight simulation experience for Microsoft Flight Simulator X with the Saitek Pro Flight Radio Panel. LED displays work fully in real time with Flight Simulator X and 2004, removing the need to bring the autopilot up on screen. A set of switches and LED displays for use in controlling various aspects of flight simulation. COM1 / COM2 / NAV1 / NAV2 function. DME / ADF / XPDR functions. P/N 14-00969 $149.99

SAITEK PRO FLIGHT MULTI-PANEL
Upgrade your flight simulation experience for Microsoft Flight Simulator X with the Saitek Pro Flight Multi Panel. LED displays work fully in real time with Flight Simulator X and 2004, removing the need to bring the autopilot up on screen. A set of switches and LED display for use in controlling various aspects of flight simulation. Full Autopilot panel with associated setting controls: Auto Throttle, Flaps, Elevator Trim wheel. P/N 14-00968 $149.99

SAITEK PRO FLIGHT SIMULATOR BUNDLE
The Saitek Pro Flight Yoke System is highly engineered to meet the exacting needs of the true flight simulation enthusiast. Stainless steel shaft, ergonomic controls, integrated chronograph and separate throttle quadrant ensure a smooth, accurate and totally realistic flying experience. Use the integrated USB Hub to easily connect other parts of the Saitek Pro Flight range of products as was additional Pro Flight Throttle Quadrant or Pro Flight Instrument Panel (both sold separately). Complete your virtual pilot’s controller setup and take flight simulation reality to the next level with the Pro Flight Rudder Pedals. Control the rudder and toe brakes of your aircraft with your feet - just like real pilots. Adjustable, smooth action gives you optimum control and realism, and brings you even closer to the experience of flying a real aircraft. P/N 13-23276 $337.90

Prices Subject to Change Without Notice - Valid as of June 1, 2023.
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

HONEYCOMB BRAVO THROTTLE QUADRANT

The Bravo Throttle Quadrant is an all-in-one cockpit system featuring a fully configurable throttle setup. Six general aviation and six commercial levers are included and can be arranged from single-engine general aviation all the way up to four-engine commercial aircraft. The commercial levers include flaps, spoilers, and functional thrust reversers while the general aviation levers include power, prop, and mixture and can engage thrust reverse for turbo props as well. The throttle also features multiple cockpit components including an autopilot switch panel with backlit buttons, annunciator panel with 14 warning lights, Gear Lever with landing gear indicator lights, general aviation flap lever and a trim wheel. The throttle also comes with Honeycomb's dual mounting system which includes two heavy duty steel clamps and a large 3M Micro-Suction Pad that can be used as a clamp-free solution. The Honeycomb Bravo Throttle Quadrant was designed to ensure the most versatile flight simulation experience possible. P/N 13-23178 $249.99

HONEYCOMB ALPHA YOKE / BRAVO THROTTLE DUST COVER

The Dust Cover by Honeycomb Aeronautical is designed and made for both the Alpha Flight Controls and Bravo Throttle Quadrant. The cover itself protects from any unwanted dust or potential damage while preserving the condition of the Yoke or Throttle. P/N 13-23719 $29.99

HONEYCOMB CHARLIE RUDDER PEDALS

The Honeycomb Charlie Rudder pedals complete the Honeycomb flight simulation system. The base includes large rubber grip pads and reversible carpet spikes. P/N 13-23862 $349.99

HONEYCOMB THROTTLE PACK FOR AIRBUS™

The Throttle Pack is an accessory for the Airbus™ A319-A380. Note: Bravo Throttle Quadrant Sold Separately. Model: A319-A380 P/N 13-23173 $49.99

HARDWARE OPTIONS FOR ON TOP AND IP TRAINER

FLIGHT SIM YOKE USB

Put yourself behind a set of real controls with the CH Flight Sim Yoke, complete with an authentic 3 lever throttle quadrant and numerous cockpit functions at your fingertips. Now you can control your aircraft like a real pilot would with left hand on the yoke and right hand controlling your throttle, prop and mixture and managing the rest of your cockpit. P/N 13-06766 $289.95

CH ECLIPSE YOKE

Fully programmable fingertip paddles, ideal for flight and racing sims. Programmable trim / scroll wheels with center push function. Two backlit push buttons and a third traditional push button. Two 8-way hats with rocker switch and trigger on both sides of handle. Configurable PAV hay for either left or right hand use. Colored handles for throttle / prop / fuel mixture. Three color LED selector dial giving you a total of 240 programmable functions with CH Control Manager software. Six analog 10 bit axes for aileron, elevator, throttle, propeller pitch, fuel and rudder. New and improved industrial grade material / components; indestructible robust plastic, free floating shaft and clamp extenders for the thinnest of desks. P/N 13-06127 $219.95

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Features forward/backward side motion for real simulation flying. Also works well as gas and brake controls for racing simulators. These 3 axes pedals are ideal with the 5 axes USB Flight Sim yoke. P/N 13-06766 $159.95

CH THEROUGHT QUADRANT USB

TWIN ENGINE. Fully programmable and featuring six physical 'dial' axes and up to 360 buttons. Throttle Quadrant USB takes you from the computer to the cockpit. Features: 6 Axis 12 Buttons (24 Button functions w/Control Manager Software included), 6 Physical Dials, Fully Programmable with CH Control manager, Compatible with Windows 98, Windows ME, Windows 2000 & Windows XP. Compatible with all Windows based Games. P/N 13-03377 $132.75

TURTLE BEACH VELOCITYONE FLIGHT SIMULATOR UNIVERSAL CONTROL YOKE AND THROTTLE SYSTEM

Developed by world-class aeronautical engineers and pilots, the Turtle Beach VelocityOne Flight Universal Control System offers the most immersive, authentic flying experience on the market. A true-to-life 180° yoke handle with built-in rudder controls provides precise, long-lasting control of any aircraft. The modular throttle quadrant with integrated trim wheel and included swappable throttle tops offers at-home aviators enhanced customization for both light and heavy aircraft. The Flight Management Display and an authentic status indicator panel offers real-time alerts and critical flight details. Setup is easy with a simple USB connection for Xbox Series X|S & Xbox One or Windows PCs. Software Compatibility: • Microsoft Flight Simulator, Sim software with USB controller support P/N 14-03437 $329.99

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 Headphone modes with standard microphone types (electret, dynamic and powered dynamic) • Pilots Headset USB Adapter P/N 13-00950 $116.90 • Chopper / Military Pilots UC8 adapter P/N 13-09051 $124.75
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Protection plus. Transparent plastic envelopes protect your most frequently used approach charts, while accepting marks from almost any writing instrument. Easy Erase. Set of 10.
P/N 13-21748 .......... $9.50

PREMIUM EPAULETS
The board for these epaulets are made of 100% Polyester and the finest braided bars available. Epaulets are available with a Black or Navy base and a Metallic Gold, Metallic Silver, Nylon Gold, or Nylon Silver stripe.
Price per pair.

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Functional, durable, protects & lasts. Jeppesen’s leather binders are made from top-grain cowhide and include steel hinges and safety locks to secure the rings. The sturdy Duraflo binder has the look and the feel of our leather binders. The fl o-mold process laminates and binds sturdy, ethylene acetate with a clear tough surlyn outer surface. Available in brown and black.
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PB-2 Denlon wrapped, 2” Rings, No Stay-Open Bar, P/N 13-21744 .......... $42.75

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The Private Pilot Exam Booklet is a product that contains all the written exams that are needed to complete the Jeppesen Private Pilot course under 14 CFR Part 141. This booklet combines the Private Pilot Pre-Solo Written Exam, Private Pilot Stage Exams, and Private Pilot End Of Course Exams into one single product.
P/N 13-19627 ......... $17.95

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P/N 13-21752 ........... $6.85

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Make your binder work like you do. Write you own labels to separate you contents. Erasable, reusable. Lines for notes. Set/13
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WEATHERCYCLER WEATHER SYSTEMS CHART

A durable 8-1/2” x 11” slide chart that uniquely displays map views and vertical cross sections through Highs, Lows, and fronts -- the broad-scale systems and features that dominate our weather. Sky views and changes in temperature and pressure complete the comprehensive chart depictions. By simply pulling the chart insert, the weather systems are put into their typical movements from west to east. Weather changes are shown for your location as the weather systems pass by. Accompanying four-page instruction booklet describes the basic causes of weather and explains step-by-step how to use The WeatherCycler. P/N 13-29949 $9.95

VFR WALL PLANNING CHART

U.S. VFR Wall Planning Chart is designed for VFR preflight planning and provides aeronautical and topographic information of the conterminous U.S. The aeronautical information includes airports, radio aids to navigation, Class B airspace and special use airspace. The topographic information includes city tint, populated places, principal roads, drainage patterns and shaded relief. This chart, 59x36 inches flat, is updated annually. P/N 13-14786 $9.95

CANADA FLIGHT SUPPLEMENT IFR CHART

The Canada Flight Supplement is a joint civil/military publication. It contains information on Canadian and North Atlantic aerodromes and is used as a reference for the planning and safe conduct of air operations. Features: • General: Tables, legends and associated information pertinent to interpretation of the supplement. • Aerodrome Directory • Planning • Radio Navigation and Communications • Military: Flight procedures and data, including sections on procedures for flight in the USA, North Atlantic and Alaska, air/ground communications and military training routes/areas. • Emergency procedures. • The Canada Flight Supplement, measuring 5 1/4 by 8 1/4 inches, is available in English or a bilingual format. Data for the province of Quebec and the National Capital Region are presented in French in the bilingual edition. English Version P/N 13-04424 $16.50 Bilingual Version P/N 13-04550 $22.95

VINTAGE SIGNS

HOMEBUILDERS HEADQUARTERS SINCE 1965 WITH PROP LOGO

This Homebuilders Headquarters since 1965 prop logo vintage metal sign is made in the United States using 24 gauge American steel and a process known as sublimation, where the image is baked into a powder coating for a durable and long lasting finish. A vintage process is then performed by hand to give this sign an aged look and feel. The edges of this sign are rounded for extra rigidity and the corners are drilled and riveted for easy hanging. 11.5” x 17.5” P/N 13-17902 $26.50

I’D RATHER BE SHOPPING AT AIRCRAFT SPRUCE TREE LOGO

This I’d rather be shopping at Aircraft Spruce tree logo vintage metal sign is made in the United States using 24 gauge American steel and a process known as sublimation, where the image is baked into a powder coating for a durable and long lasting finish. A vintage process is then performed by hand to give this sign an aged look and feel. The edges of this sign are rounded for extra rigidity and the corners are drilled and riveted for easy hanging. 11.5” x 17.5” P/N 13-17908 $26.50

TRI GUIDE THE COMPANION TO ELECTRONIC CHART NAVIGATION

Howie Keefe’s Tri Guide is the perfect companion to Electronic Chart Navigation. This guide addresses: • Planning • Diversion • Orientation • Airport & VOR Decode (ID to Name) Plus Contact Frequency • Reservation Numbers and even Hotel & Motel Numbers • For use in U.S. • Mainland Airspace P/N 13-12693 $27.95

FULL-COLOR CLOUD CHART

“Clouds: A Guide to the Sky” shows full-color photos of 30 different cloud formations, (with descriptions) and the weather associated with each. 25” x 37” on heavy stock. A beautiful photographic documentation of cloud formations and what those formations mean in terms of weather prediction. This colorful poster makes a perfect wall hanging for reference throughout the year or use when presenting weather concepts to students. The base of the chart provides additional detailed weather information. P/N 13-14758 $5.95

3-D AERONAUTICAL CHARTS

The precisely molded 3D shape allows pilots to see and feel the terrain shape and clearly understand how it relates to the airspace and flight. Pilots will value referencing this chart for flight planning, training, and as a general conversation piece, whether hung on a wall of an office, hangar, or home. This chart is made with a digital inkjet printing process on a rigid plastic film, which is then molded to a precise terrain model. Los Angeles P/N 13-09595 $62.75 Southern Sierra Nevada P/N 13-09597 $62.75 San Francisco / Tahoe P/N 13-09596 $62.75 Denver P/N 13-10006 $62.75 Portland P/N 13-11714 $62.75 Seattle P/N 13-11713 $62.75

FOLDED PILOT’S MAP

This map measures 3 feet by 2 feet and is encapsulated on both sides by a rugged 3 mil laminating for durability. The map is extremely detailed and includes state information including capitals, square mileage, populated, and nick names along with each state flag. Great for pilots and aviation enthusiasts. Flight plan information, ATC light group signals, cruising altitudes, and a crosswind component chart included. Folded Pilot’s Map P/N 13-11247 $18.75 Pilot’s Laminated Wall Map P/N 13-11248 $18.75

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Sectional & VFR Terminal Charts for conterminous United States, Hawaii, Puerto Rico and Virgin Islands

Sectional Charts .......................... P/N 8403 ....... $8.50
Set of 37 charts (w/o AK & HI) ......... P/N 8557 ....... $313.95

NOTE: When ordering charts, complete part no. with first 3 letters of chart title. Ex.: Seattle sectional is P/N 8403SEA.

For Subscription service: Add -SUB (example: 8403SEA-SUB) and a new chart will be shipped & billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require credit card no. on file.

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Great Falls  Cheyenne  Wichita  Memphis  Miami  Juneau  Anchorage
Billings  Omaha  St. Louis  El Paso  Kodiak  Ketchikan  Salt Lake City
Twin Cities  Chicago  Cincinnati  San Antonio  Dutch Harbor  Cape Lisburn  Kansas City
Green Bay  Detroit  Washington  Houston  Aleutian Islands  Point Barrow  Charlotte
Lake Huron  New York  Los Angeles  New Orleans  Western  Fairbanks  Cold Bay
Montreal  San Francisco  Phoenix  Jacksonville  Whitehorse  Dawson  Bethel
Halifax  Las Vegas  Albuquerque

AERONAV VISUAL NAVIGATION CHARTS

AERONAV SECTIONAL CHARTS
Sectional aeronautical charts are designed for visual navigation of slow to medium speed aircraft. The topographic information featured consists of the relief and a judicious selection of visual checkpoints used for flight under visual flight rules. The checkpoints include populated places, drainage patterns, roads, railroads, and other distinctive landmarks. The aeronautical info on Sectional Charts includes visual and radio aids to navigation, airports, controlled airspace, restricted areas, obstructions, & related data. (Scale 1"=6.66 nm/1:500,000. 60"x20" folded to 5"x10") Revised semi-annually, except most Alaskan charts are revised annually.

AERONAV VFR TERMINAL AREA CHARTS
Terminal Area Charts depict the airspace designated as Class B Airspace. The information found on these charts, while similar to that found on Sectional Charts, is shown in much more detail because of the larger scale. These charts should be used by pilots intending to operate within or near a Terminal Control Area or an Airport Radar Service Area. Locations of Terminal Area Charts are indicated by a • on the Sectional Chart indexes. (Scale 1 inch = 3.43nm/1:250,000. 25 x 20 inches folded to 5 x 10 inches.) Revised semi-annually, except Puerto Rico/Virgin Islands is revised annually.

NOTE: When ordering charts, complete part number with first 3 letters of chart title. Ex: Los Angeles terminal chart is P/N 8064LOS.

For Subscription service: Add -SUB (example: 8064LOS-SUB) and a new chart will be shipped and billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require credit card number on file.

CHART MASTER
Chart Master is Aircraft Spruce’s online chart selection program designed to tell you exactly which aviation charts you will need for the route you intend to fly. Just plug in the 3 letter airport identifiers for your departure and destination airports, and Chart Master will provide you with a list of all of the charts needed for your route. Select VFR (sectional, terminal, WAC, AFD, or IFR (Low altitude enroute) or both and order any or all of the charts listed by Chart Master. This program is available on line at www.aircraftspruce.com.
AERONAV AIRPORT / FACILITY DIRECTORY

The Airport/Facility directory is a pilot's manual which contains data on public and joint use airports, seaplane bases, heliports, VFR airport sketches, NAVAIDs, communications data, weather data sources, airspace, special notices, VFR waypoints and operational procedures. The seven volumes cover the conterminous United States, Puerto Rico, and the Virgin Islands. Includes data that cannot be readily depicted in graphic form; e.g., airport hours of operation, types of fuel available, runway data, lighting codes, etc.

$7.70 ea.

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OTHER VFR CHARTS:

- VFR-IFR Wall Planning Chart (U.S.) Flat/Wall ........... P/N 13-30703 .... $6.50
- VFR-IFR Wall Planning Chart (U.S.) Folded ............. P/N 13-06455 .... $8.90
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- Grand Canyon VFR Chart .................................... P/N 13-30706 ... $3.95
- Baltimore-Washington Helicopter Route Chart ........... P/N 13-30707 ... $12.95
- Chicago Helicopter Route Chart ............................ P/N 13-30709 ... $13.25
- Houston Helicopter Route Chart ............................ P/N 13-30711 ... $13.25
- Los Angeles Helicopter Route Chart ........................ P/N 13-30712 ... $12.85
- New York Helicopter Route Chart ........................... P/N 13-30713 ... $12.95
- Pacific Chart Supplement .................................... P/N 13-07875 ... $6.80

World Aeronautical Charts for Alaska

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TERMINAL PROCEDURES COVERAGE OF THE CONTERMINOUS U.S.

Includes: • Instrument Approach Procedure (IAP) Charts • Departure Procedure (DP) Charts • Standard Terminal Arrival (STAR) Charts • Charted Visual Flight Procedures (CVFP) • Airport Diagrams

IAP Charts are designed to provide an IFR descent from the enroute environment to a point where a safe landing can be made.

DP charts are Air Traffic Control (ATC)-coded departure procedures which have been established at certain airports to simplify clearance delivery procedures. STAR charts are ATC-coded IFR arrival routes established for certain airports to simplify clearance delivery procedures. CVFPs are an operational technique designed to move air traffic safely and expeditiously. In addition to conventional visual approach procedures, it has been necessary to specify routes/altitudes to enhance noise abatement at some locations. CVFPs have been developed to provide a pictorial display of these visual arrival routes. Airport Diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating geodetic position navigational systems aboard aircraft.

Bound Volumes ...................... $13.50
Loose Leaf Volumes ............... $15.50

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Prices Subject to Change Without Notice - Valid as of June 1, 2023.

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1003
INSTRUMENT NAVIGATION CHARTS

AERONAV ENROUTE LOW ALTITUDE CHARTS

Enroute Low Altitude charts (Conterminous U.S. and Alaska) provide aeronautical information for navigation under instrument flight rules below 18,000 feet MSL. Information includes: airways; limits of controlled airspace; position, identification, and frequencies of radio aids to navigation (Alaska 4-color series includes geographic coordinates); airports with terminal air/ground communications; minimum enroute and obstruction clearance altitudes; airway distances; reporting points; special use airspace areas; military training routes. Scales vary from 1 inch = 5nm to 1 inch = 20nm. 50 x 20 inches folded to 5 x 10 inches. Revised every 8 weeks. Area charts, which show congested terminal areas at a large scale, are included with subscriptions to any conterminous U.S. Set Low (Full set, East or West sets), Chart L-28 covers the Washington-Boston corridor at a scale similar to an Area Chart. Charts are revised every 8 weeks. Enroute Low Altitude Charts ... P/N 8070L ............ $4.85/ea.

Full Set (L1/2-L27/28 & Area Chart) P/N 13-30714 .......... $93.50
Western U.S. Set (L1/2-L15/16 & Area Chart) P/N 13-30716 .......... $55.00
Eastern U.S. Set (L11/12, L13/14, L17/18-L27/28 & Area Chart) ......................... P/N 13-30717 .......... $59.50

For individual charts please call 877-4-SPRUCE or visit our website at: www.aircraftspruce.com

IFR GULF OF MEXICO CHART - WEST ......... P/N 13-08004 ....... $16.50
IFR GULF OF MEXICO CHART - CENTRAL .... P/N 13-08003 ....... $17.50

For SUBSCRIPTION service, add -SUB (example: 8070L-10-SUB) and a new chart will be shipped and billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require a credit card number on file.

Note: When ordering individual charts, complete part number with the chart number. Example: Enroute Low Altitude Chart L-10 is P/N 8070L-10.

FR Enroute High Altitude Charts (Conterminous U.S. and Alaska) are designed for navigation at or above 18,000 feet MSL. This four color chart series includes: Jet route structure; VHF radio aid to navigation (frequency, ID, channel, geographic coordinates); selected airports; reporting points. (Scales vary from 1” = 78nm to 1” = 30nm. 55 x 20” folded to 5 x 10”). Revised every 8 weeks.

NOTE: When ordering individual charts, complete part no. with the chart no. Ex: Enroute High Altitude Chart H1/2 is P/N 8075-H1/2.

Full Set (H1/H2, H3/H4, H5/6, H9/H10, H11) (H3/H4, H5/H6, H7/H8-very small area,H9/H10), (H3/H4-very small area, H5/H6, H7/H8, H9/H10, H11) ... P/N 8075-1 ..................... $28.75

For SUBSCRIPTION service: Add -SUB (example: 8075-H1/2-SUB) and a new chart will be shipped and billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require a credit card number on file.
The VNC is used by VFR pilots on short to extended cross-country flight at medium altitudes and at low to medium airspeeds. These charts show aerodrome data, airspace information, radio aids to navigation, air/ground communications, and elevation with contour lines, tints and shaded relief.

Canadian VNC (VFR) charts:

- VNC Toronto - $18.85
- VNC Sault Ste Marie - $18.75
- VNC Montreal - $18.85
- VNC Moncton - $18.75
- VNC Vancouver - $18.85
- VNC Calgary - $18.85
- VNC Regina - $18.75
- VNC Winnipeg - $18.75
- VNC Thunder Bay - $18.75
- VNC Timmins - $18.85
- VNC Chicoutimi - $18.75
- VNC Anticosti - $19.75
- VNC Gander - $18.75
- VNC Kitimat - $18.85
- VNC Prince George - $18.50
- VNC Edmonton - $18.75
- VNC Pim Flon - $18.75
- VNC Big Trout - $18.75
- VNC James Bay - $18.75
- VNC Wabush - $18.85
- VNC Goose Bay - $18.75
- VNC Atlin - $18.85
- VNC Kinukjuaq - $18.75
- VNC Ungava - $18.85
- VNC Whitehorse - $18.75
- VNC Ft Simpson - $18.75
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- VNC Coats Isl. - $18.75
- VNC Frobisher - $18.75
- VNC Kondike - $18.75
- VNC Great Bear Lake - $18.75
- VNC Bathurst Inlet - $18.75
- VNC Baker Lake - $18.75
- VNC Foxx Basin - $18.75
- VNC Cumberland - $18.75
- VNC MacKenzie - $18.75
- VNC Amundsen - $18.75
- VNC Cambridge - $18.75
- VNC Boothia - $18.75
- VNC Baffin Bay - $18.85
- VNC Banks Island - $18.75
- VNC Resolute - $18.50
- VNC Devon Island - $18.75
- VNC Hazen Strait - $18.75
- VNC Ellesmere - $18.51
- VNC Alert - $18.52
- VNC Alaska Highway - $18.50

Terminal area charts provide detailed information on congested air traffic areas. The six charts of the series cover Toronto, Montreal, Vancouver, Edmonton, Calgary and Edmonton. The latter two are printed back to back. All charts are at a scale of 1:250,000.

- VNC Toronto - $18.85
- VNC Sault Ste Marie - $18.75
- VNC Montreal - $18.85
- VNC Moncton - $18.75
- VNC Vancouver - $18.85
- VNC Calgary - $18.85
- VNC Regina - $18.75
- VNC Winnipeg - $18.75
- VNC Thunder Bay - $18.75
- VNC Timmins - $18.85
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- VNC Hazen Strait - $18.75
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For a complete image of the area map above, please visit www.aircraftspruce.com.