AEROX HIGH-DURATION AVIATION OXYGEN SYSTEMS
Add to your flying comfort by using oxygen at altitudes as low as 5000 ft. Aerox Oxygen Systems include lightweight aluminum cylinders, regulators, all hardware, flow meter, and nasal cannulas (masks available as option). Oxysaver oxygen saving cannulas & Aerox Flow Control System are available.

500 SERIES REGULATOR – AN AIRCRAFT SPRUCE EXCLUSIVE!
• Low profile
• 1, 2, & 4 place
• Standard Aircraft filter for easy fitting
• Convenient top mounted ON/OFF valve
• Equipped with Aerox standard plug sockets
• Over pressure safety valve

COMPLETE AEROX SYSTEMS (ADJUSTABLE FLOW)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-18895</td>
<td>1 outlet, 6 Cu Ft. Cyl w/Flow Meter &amp; Cannula</td>
<td>$377.60</td>
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<tr>
<td>13-18896</td>
<td>1 outlet, 6 Cu Ft. Cyl w/Flow Meter &amp; Cannula</td>
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<tr>
<td>13-18897</td>
<td>1 outlet, 13 Cu Ft. Cyl w/Flow Meter &amp; Cannula</td>
<td>$396.00</td>
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<tr>
<td>13-18898</td>
<td>2 outlet, 6 Cu Ft. Cyl w/Flow Meters &amp; Cannulas</td>
<td>$464.80</td>
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<tr>
<td>13-18899</td>
<td>2 outlet, 9 Cu Ft. Cyl w/Flow Meters &amp; Cannulas</td>
<td>$488.00</td>
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<tr>
<td>13-18900</td>
<td>2 outlet, 13 Cu Ft. Cyl w/Flow Meters &amp; Cannulas</td>
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<td>13-18901</td>
<td>2 outlet, 22 Cu Ft. Cyl w/Flow Meters &amp; Cannulas</td>
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<td>13-18902</td>
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<td>13-18903</td>
<td>4 outlet, 9 Cu Ft. Cyl w/Flow Meters &amp; Cannulas</td>
<td>$580.00</td>
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<td>13-18904</td>
<td>4 outlet, 13 Cu Ft. Cyl w/Flow Meters &amp; Cannulas</td>
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<td>13-18905</td>
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<td>13-18906</td>
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<td>$666.40</td>
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<tr>
<td>13-18915</td>
<td>6 outlet, 22 Cu Ft. Cyl w/Flow Meters &amp; Cannulas</td>
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<td>13-18916</td>
<td>6 outlet, 33 Cu Ft. Cyl w/Flow Meters &amp; Cannulas</td>
<td>$1,011.20</td>
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</table>

AEROX SMOKE GOGGLES
Aerox has introduced Smoke Goggles with 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. Smoke Goggles .......... P/N 13-06172 .......... $96.00

AEROX RETROFIT KITS FOR BUILT-IN SYSTEMS OR OTHER PORTABLES

<table>
<thead>
<tr>
<th>Model</th>
<th>Retrofit Kits</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>RK-SC</td>
<td>Retrofit Kit plus Scott type fitting SC</td>
<td>13-18929</td>
<td>$112.00</td>
</tr>
<tr>
<td>RK-PB-1</td>
<td>Retrofit Kit plus Puritan-Bennett type fitting</td>
<td>13-18994</td>
<td>$89.60</td>
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<tr>
<td>RK-PB-2</td>
<td>Retrofit Kit plus Puritan-Bennett type fitting</td>
<td>13-18992</td>
<td>$89.60</td>
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<tr>
<td>RK-SK</td>
<td>Retrofit Kit plus Sky-Ox fitting (new style)</td>
<td>13-18995</td>
<td>$91.50</td>
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<tr>
<td>RK-PB-1</td>
<td>Retrofit Kit plus Scott type fitting SC</td>
<td>13-18991</td>
<td>$89.60</td>
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<tr>
<td>RK-PB-1</td>
<td>Retrofit Kit plus Scott type fitting SC</td>
<td>13-18993</td>
<td>$89.60</td>
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<tr>
<td>RK-SK</td>
<td>Retrofit Kit plus Sky-Ox fitting (new style)</td>
<td>13-18996</td>
<td>$91.50</td>
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<tr>
<td>RK-PB-1</td>
<td>Retrofit Kit plus Scott type fitting SC</td>
<td>13-18997</td>
<td>$89.60</td>
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<tr>
<td>RK-SK</td>
<td>Retrofit Kit plus Sky-Ox fitting (new style)</td>
<td>13-18998</td>
<td>$91.50</td>
</tr>
<tr>
<td>RK-PB-1</td>
<td>Retrofit Kit plus Scott type fitting SC</td>
<td>13-18999</td>
<td>$89.60</td>
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<td>RK-SK</td>
<td>Retrofit Kit plus Sky-Ox fitting (new style)</td>
<td>13-19000</td>
<td>$91.50</td>
</tr>
</tbody>
</table>

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 jetties. The FBO-1 comes complete with 2 CGA 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 .......... $360.00

AEROX CGA-540 SINGLE CYLINDER FILLING STATION - Transfils between cylinders quickly and easily. 6” braided stainless line, gauge, restrictor, and CGA 540 filler. P/N 13-04535 .......... $176.85

AEROX PRO-02 EMERGENCY HANDHELD OXYGEN SYSTEMS
Provides oxygen until the aircraft can reach a lower altitude. And because Pro-02 is refillable, there is no need to purchase replacement O2 cartridges. During short flights at altitudes between 12,000ft, MSL and 14,000ft, MSL where maneuvering over mountains or turbulent weather is necessary, the Pro-02 emergency handheld oxygen system provides oxygen to extend these brief legs. Included with the refillable Pro-02 is a regulator with gauge, mask and a refillable cylinder.

Pro-02-2 (2 Cu. Pt./1 mask) ............. P/N 13-02735 .......... $328.00
Pro-02-4 (2 Cu. Pt./2 masks) ............. P/N 13-02736 .......... $360.00

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

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>4110-711</td>
<td>Small Without Microphone</td>
<td>$196.75</td>
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<tr>
<td>4110-712</td>
<td>Medium Without Microphone</td>
<td>$209.00</td>
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<tr>
<td>4110-713</td>
<td>Medium</td>
<td>$209.00</td>
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<tr>
<td>4110-714</td>
<td>Large</td>
<td>$539.00</td>
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AEROX SEAT BACK DELUXE CARRIER

WWW.AIRCRAFTSPRUCE.COM
Prices Subject to Change Without Notice
OXIMETERS - FACE MASKS

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

P/N 13-12359 $3,850.00

PULSE OXIMETER CO DETECTOR 455
Designed for all aircraft with limited panel space. This small pulse Oximeter with CO Detector mounts easily in most panels and transmits data to the MFD’s via RS232. Current MFD manufacturers include Electronics International, Advanced Flight Technologies, Grand Rapids Instruments and on upcoming releases of Avidyne Entegra Release 9. The unit transmits the pilot’s blood oxygen levels, heart rate statistics, CO Level, Cabin temperature, and Cabin Altitude to the MFD’s display units. The pilot inserts an index finger in the unit and quickly gets readouts so he/she can determine his/her general physical and his environmental mobility. P/N 11-07993 $999.00

IOXIMETER SMARTPHONE PULSE OXIMETER
Pulse Oximeter for Smart phones. Reads Oxygen Saturation. Reads Pulse Rate. No batteries required. Powered through the headphone jack on your phone.

P/N 13-17632 $349.00

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 • Light, compact (the weight is 50g including batteries) Low power consumption, two AAA batteries can be continuously Operated for 30 hours • Indicator of low power consumption • Two display modes

P/N 13-05666 $84.95

ALT ALERT PERSONAL ALTITUDE MONITOR
Exclusively licensed from NASA under U.S. Patent 6,452,510, the Alt Alert™ will alarm when the cabin reaches an imminent and dangerously high cabin pressure-altitude (relative cabin pressure), based on FAA regulations. Once activated by installation of the battery (provided), the unit will enter “sleep mode” while at ground level, but will begin sampling pressure and battery voltage every 15 seconds during climb and while in level flight (consistent flying altitude) at altitudes above sea level. It will operate as such until the battery is drained or removed (usually about 18 months, unless alarm is activated). At any time, the battery status can be tested by pressing the “test” button. The AltAlert™ may be easily mounted on a flat surface in the cockpit or cabin of the aircraft, clipped to a visor, or worn where sound is not muffled by clothing. P/N 13-17743 $349.00

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

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

P/N 13-11590 $6.25

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.

P/N 13-06128 $78.75

MOUNTAIN HIGH OXYMIZER CANNULA
The Oxymizer ‘M’ type (mustache-style) oxygen-conserving cannula is the most popular version. The Oxymizer is standard issue with our XCR and XGP systems and may work with almost any adjustable constant flow regulator.

P/N 13-11592 $29.85

MH E-Z BREATHE II BOOM CANNULA EDS FOR PULSE DEMAND
Mountain High has redesigned their Boom Cannula system to make it even better. The redesigned nylon boom arm affixes to your headset with a ball mount and adhesive pad. It can swivel about and slides in and out for best fit. The new improved arm incorporates an adjustable friction lock to eliminate slippage. The nasal lips and flow 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 $98.95

MOUNTAIN HIGH ALPS FACE MASK
MH ALPS FaceMask and the MH ALPS-M (for microphone) FaceMask. The ALPS-M 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. The mask is easy to put on and exceptionally comfortable as it does not require a polyvinyl bag. The ALPS or the ALPS-M FaceMask can be used with any of the MH oxygen systems.

Alps Constant Flow Feed Tube Use with MH-4 Flowmeter only

P/N 13-11388 $4.85

Alps EDS Style Feed Tube

P/N 13-13098 $9.50

Description Part No. Price
Facemask Med 13-05136 $169.85
FacemaskLarge 13-05137 $169.75
Facemask w/ Mic Small 13-05134 $463.00
Facemask w/ Mic Med 13-05135 $465.00
Facemask w/ Mic Large 13-04156 $465.00

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

Instructions for use:
Place mask under the nose and over the mouth. Press trigger down to activate flow. Breathe deeply through the mouth. Pocket Size - 2 Liters . . . . . P/N 13-12975 $7.95
Medium Size - 5 Liters ........... P/N 13-21167 $9.50
Large Size - 10 Liters .......... P/N 13-12976 $14.50

www.aircraftspruce.com
OXYGEN SYSTEMS

MOUNTAIN HIGH XCP SYSTEMS

The MH-XCP Constant Flow series is our most economical single and multi-place, portable oxygen system for general aviation. Weight is kept to a minimum by our low profile, lightweight regulators, MH-3 or MH-4 Flowmeters and Cylinders. The XCP systems come complete with Cylinder(s) of your choice, Regulator, Mountain High MH-3 or MH-4 Flowmeter, Oxytm™ cannula, facemask, lobe bag and cylinder face mask carry case for easy transport and seal to eyelet mounting. Fill Pack. The XCP System can be used up to 25,000 ft. with the MH-4 Flowmeter and Facemask. Choose the MH-3 Flowmeter to fly up to 18,000 ft. Each XCP System includes:

- Instructions
- Cylinder with Valve, Gauge and carry case.
- Pressure reducing Regulator with self sealing outlet for each user.
- MH3 or MH4 Flow-Meter (Your choice when ordering)
- Oxytm™ (oxygen conserving) Cannula
- Facemask
- Tote-Bag.

Incorporates a flow restrictor to prevent filling too fast, as well as built-in filters. All Components are cleaned and ready for Oxygen use.

02 TRANSFILLER FBO KIT - The standard kit comes with a non-venting style regulator, and the four most common fill adapters that you will need. TA-916-S $1,155.00

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>00XCP-0044-34</td>
<td>86lt (24 cu. ft.) 4-place carry-on system with Fill Pack oiled cylinder carry/tray-down case</td>
<td>13-0067</td>
<td>$1,037.00</td>
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<tr>
<td>00XCP-0044-32</td>
<td>86lt (24 cu. ft.) 4-place carry-on system with Fill Pack oiled cylinder carry/tray-down case</td>
<td>13-0068</td>
<td>$1,067.00</td>
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<tr>
<td>00XCP-0047-30</td>
<td>416lt (115 cu. ft) 4-place carry-on system with Fill Pack oiled cylinder carry/tray-down case</td>
<td>13-0060</td>
<td>$904.00</td>
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<tr>
<td>00XCP-0047-31</td>
<td>416lt (115 cu. ft) 4-place carry-on system with Fill Pack oiled cylinder carry/tray-down case</td>
<td>13-0062</td>
<td>$878.00</td>
</tr>
</tbody>
</table>

928 Prices Subject to Change Without Notice

In addition to these systems, the EDS-02D1 System enables the general aviation pilot to fly at pressure altitudes up to 25,000 feet with safety and comfort. The EDS-02D1 Pulse-Demand™ system reduces Oxygen consumption dramatically. Different from the “standard” constant flow systems, the EDS-02D1 Pulse-Demand™ system wastes no Oxygen during the breathing cycle when oxygen is not being delivered to the lungs. The average user will enjoy a duration increase of two to three times compared to the constant flow systems. The built in Barometer adjusts for Altitude increase while reducing the pilots work load. The unit operates for up to 100 hours on two AA batteries. The EDS-02D1 should be used with any of our XCR, XCP, or 4-place FPR regulators. The low voltage service line is a high quality polyurethane line that is kink-resistant and flexible under varying temperatures. The cannula, face mask and service line connect to the EDS unit via color-coded “Quick-Connects” providing an air-tight fitting by hand. These fittings can be connected and disconnected many times. With the optional XCP connecting kit, the EDS can be used with an XCP system at the same time flow meters and hoses can be used. In addition, the optional ALPS Facemask with or without microphone, is the perfect addition to any EDS system. All systems are shipped empty.

MOUNTAIN HIGH HANDHELD OXYGEN SYSTEM

The CO-PILOT2 oxygen system is a small, lightweight, hand-held oxygen system. Precision manufactured in Japan, this unit was especially designed for supplemental breathing while at high altitudes. The regulator has an on/off and volume control knob adjustable from off to a max setting of 2-8ltr./min, which will last approx. 9 minutes. The removable face mask can be replaced by an optional Oxytm™ cannula for continuous “hands off” operation. When using the Oxytm™ cannula each 18 liter replacement cylinder lasts up to 30 minutes at 15,000 ft. The regulator can hold a cylinder for several months without any noticeable drop in pressure. Cylinders can be changed by hand. Weight with cylinder 17oz. Cylinder weight 9.5oz. P/N 13-01016 $219.95

Single 18 Liter Replacement Cylinder ............................................... P/N 13-02222 ................................................... $25.50

Pack of 3 18 Liter Replacement Cylinders ........................................ P/N 13-13016 ................................................... $74.95

MOUNTAIN HIGH EDS O2D1 OXYGEN SYSTEMS

The MH 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 (3) AA batteries, 2 standard cannulas, 2 flare tip cannulas, and 2 face masks all in a handy carry bag. Note: Our EDS-O2D1 and O2D2 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.

MOUNTAIN HIGH EDS O2D2 OXYGEN SYSTEMS

The MH 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 (3) AA batteries, 2 standard cannulas, 2 flare tip cannulas, and 2 face masks all in a handy carry bag. Note: Our EDS-O2D1 and O2D2 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.

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<tr>
<th>Model</th>
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</tr>
</thead>
<tbody>
<tr>
<td>00EDS-0844-01</td>
<td>EDS-O2D1 with CFF-480 Silica Cylinder and XCR-540 regulator with tote bag - 1 Place</td>
<td>13-00337</td>
<td>$1,999.00</td>
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<tr>
<td>00EDS-0844-02</td>
<td>EDS-O2D1 with Al-180 Aluminum Cylinder and XCR-540 regulator with tote bag - 1 Place</td>
<td>13-00684</td>
<td>$921.00</td>
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<tr>
<td>00EDS-0847-01</td>
<td>EDS-O2D1 with CFF-480 Silica Cylinder and XCR-540 regulator with tote bag - 1 Place</td>
<td>13-00356</td>
<td>$1,563.00</td>
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<tr>
<td>00EDS-0847-02</td>
<td>EDS-O2D1 with Al-180 Aluminum Cylinder and XCR-540 regulator with tote bag - 1 Place</td>
<td>13-00365</td>
<td>$2,144.00</td>
</tr>
<tr>
<td>00EDS-0848-01</td>
<td>EDS-O2D1 with CFF-480 Silica Cylinder and XCR-540 regulator with tote bag - 2 Places</td>
<td>13-00372</td>
<td>$2,764.00</td>
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<tr>
<td>00EDS-0848-02</td>
<td>EDS-O2D1 with Al-180 Aluminum Cylinder and XCR-540 regulator with tote bag - 2 Places</td>
<td>13-00372</td>
<td>$2,764.00</td>
</tr>
<tr>
<td>00EDS-0848-03</td>
<td>EDS-O2D1 with CFF-480 Silica Cylinder and XCR-540 regulator with tote bag - 2 Places</td>
<td>13-00372</td>
<td>$2,764.00</td>
</tr>
<tr>
<td>00EDS-1054-01</td>
<td>EDS-O2D1 with XCR-540 regulator with gauge - 1 Place</td>
<td>13-00261</td>
<td>$677.00</td>
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<tr>
<td>00EDS-1054-02</td>
<td>EDS-O2D1 with XCR-540 regulator with gauge - 2 Places</td>
<td>13-00261</td>
<td>$677.00</td>
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<tr>
<td>00EDS-1054-03</td>
<td>EDS-O2D1 with XCR-540 regulator with gauge - 4 Places</td>
<td>13-00261</td>
<td>$919.00</td>
</tr>
</tbody>
</table>

928 Prices Subject to Change Without Notice

MOUNTAIN HIGH TRANSFILLER UNITS

TR-55 00GSE-1000-00 Standard length 18 inches. The TR-55 is the most economical way to fill your cylinder. One side has a CGA-540 nut & nipple with an O-ring seal, while the other end is equipped with a large hand nut with bare nipple. This allows you to slowly and safely bleed the line so the fittings can be easily removed from the cylinder. P/N 13-03929 $144.75

TR-56 00GSE-1012-00 Standard length 24 inches. The TR-56 is our most popular personal transfiller. It is equipped with O-ring seals on both of the CGA-540 (oxygen) ends for a positive and air-tight fit by hand. A handy bleed valve is included to relieve the pressure in the system so that the fittings can be easily removed from the cylinder without damage to the O-ring seals. P/N 13-03924 $310.00

TR-95 00GSE-1016-08 Standard length 48 inches. The TR-95 is an economical transfilling system for soaring and flying clubs where many cylinders are serviced frequently. Both connecting ends have O-ring seals for a positive air-tight fit. The pressure/contents gauge shows how much oxygen remains in the master (rental) cylinder. P/N 13-03925 $424.00

02 TRANSFILLER FBO KIT - The standard kit comes with a non-venting style regulator, and the four most common fill adapters that you will need. Incorporates a flow restrictor to prevent filling too fast, as well as built-in filters. All Components are cleaned and ready for Oxygen use. P/N 13-09249 $1,259.00

With 8t. Hose ...................................................................................... P/N 13-14949 $1,155.00

Without Hose ...................................................................................... P/N 13-12735 $1,155.00

TA-916-S Adapts CGA-540 to the Scott fitting (9/16-18 threads). Commonly known as the Scott 2685, 5020-1 Airline or AS1046 fitting. A socket is on the CGA-540 end to attach to transfiller lines. P/N 13-14773 $137.75

928 Prices Subject to Change Without Notice

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OXYGEN SYSTEMS

SOLOPACK PERSONAL OXYGEN PACK
The ALL-IN-ONE SOLO Pack with A-5 Flow Meter and ALL-IN-ONE Connector Kit is a complete and simple oxygen kit for the pilot and/or passenger. The Connector Kit allows you to connect to virtually all general aviation aircraft. This package includes a standard face mask, Oxymizer Cannula, A-5 Flow Meter, and FLOWGLOW to illuminate your flow meter in the dark. Includes all necessary tubing and connectors.
P/N 05-14888.............$169.75

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

X3 SOLO PACK
Pilot tested and pilot approved! The X3 Demand Conserver is the best demand conserver in the aviation industry. The X3 Demand Conserver is the only fully mechanical demand conserver (no batteries required). By giving you oxygen only when you “demand” it, the X3 will extend the duration of your oxygen supply by at least 300%. The X3 Solo Pack includes everything you need, including a dual lumen cannula, dual lumen mask, connectors, and tubing. The X3 is STC’d for Cirrus and certified up to 25,000 feet. For Cirrus and certified up to 25,000 feet.
P/N 05-14897.............$899.00

X3 PILOT PACK
This package includes the X3 Demand Conserver PLUS a Comfort Mic Mask certified up to 25,000 feet! The X3 Demand Conserver is the only fully mechanical demand conserver (no batteries required). By giving you oxygen only when you “demand” it, the X3 will extend the duration of your oxygen supply by at least 300%. This X3 Pack includes everything you need PLUS a Comfort Mic Mask for crystal clear communications at high altitudes. Includes: dual lumen cannula, dual lumen mask, connectors, and tubing. The X3 is STC’d for Cirrus and certified up to 25,000 feet.
P/N 05-14890.............$579.00

PLANE PACK - 4 PERSON
The PLANEpack with ALL-IN-ONE Connector Kits is a versatile kit that fits a number of passengers and/or pilots with all the breathing gear they need. The Connector Kits allow you to connect to the majority of General Aviation planes flying today. In the box: • 4 - A-5 Oxygen Flow Meter With Tubing • 2 - Comfort Microphone Mask with Premium Mic • 4 - Oxymizer Cannula For Use With Flow Meters • 1 - 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 05-14891.............$1,149.00

PLANE PACK - 6 PERSON
The PLANEpack with ALL-IN-ONE Connector Kits is a versatile kit that fits a number of passengers and/or pilots with all the breathing gear they need. The Connector Kits allow you to connect to the majority of General Aviation planes flying today. In the box: • 6 - A-5 Oxygen Flow Meter With Tubing • 2 - Comfort Microphone Mask with Premium Mic • 6 - Oxymizer Cannula For Use With Flow Meters • 4 - Standard Face Mask - Certified to 25,000 Feet • 6 - ALL-IN-ONE Connector Kits • 6 - FLOWGLOW for use with A-5 Flow Meter • 3 - Oxygen Equipment Bag - PFI • 1 - Pulse Oximeter.
P/N 05-14897.............$1,850.00

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

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

OXYPACK3 - 2 PERSON OXYGEN SYSTEM
In the box: • 1 - 22 CU. Ft. Aluminum Oxygen Cylinder • 1 - Carrying Case With Seatback Harness • 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.
P/N 05-14894.............$899.00

OXYPACK4 - 2 PERSON OXYGEN SYSTEM
In the box: • 1 - 22 CU. Ft. Aluminum Oxygen Cylinder • 1 - Carrying Case With Seatback Harness • 4 - A-5 Oxygen Flow Meter With Tubing And CPC Connector • 4 - Oxymizer Cannula For Use With Flow Meters • 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.............$1,099.00

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.............$109.75

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 12-04889.............$148.75

WWW.AIRCRAFTSPRUCE.COM
# GROUND SUPPORT TOW BARS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>FITS</th>
<th>PART NUMBER</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CESSNA</strong></td>
<td>This two piece telescoping tow bar fits all Cessnas with 5/8” lugs on nosegear. Overall length 42.5”, collapsed 24”.</td>
<td>Cessnas</td>
<td>P/N 13-01800</td>
<td>$52.75</td>
</tr>
<tr>
<td><strong>MOONEY</strong></td>
<td>A simple “T” handle design for the Mooney axle. Overall length 33.5”.</td>
<td>Mooneys, Cessnas, Beech</td>
<td>P/N 13-02000</td>
<td>$53.80</td>
</tr>
<tr>
<td><strong>CHEROKEE</strong></td>
<td>This one piece tow bar has a retractable locking mechanism that gives a positive lock when installed. Overall length 31”.</td>
<td>Cessnas, Rockwells</td>
<td>P/N 13-01650</td>
<td>$54.85</td>
</tr>
<tr>
<td><strong>BEECHCRAFT</strong></td>
<td>The compact design of this tow bar makes it very popular among Beech owners. Overall length 38”, collapsed 21.5”.</td>
<td>Beechcrafts</td>
<td>P/N 13-01900</td>
<td>$54.85</td>
</tr>
<tr>
<td><strong>ARROW</strong></td>
<td>This offset “T” handle design fits into the Arrow axle making it a simple and easy design to use. Overall length 33”.</td>
<td>Arrows</td>
<td>P/N 13-01700</td>
<td>$54.95</td>
</tr>
<tr>
<td><strong>TWIN CESSNA</strong></td>
<td>The extra length provides extra nose clearance and leverage for Twin Cessnas and remains very compact. Overall length 55”, collapsed 34”.</td>
<td>Cessnas</td>
<td>P/N 13-01850</td>
<td>$54.95</td>
</tr>
<tr>
<td><strong>COMANCHE</strong></td>
<td>The same as our P/N HH-007 except one piece construction. Overall length 33”.</td>
<td>Comanches</td>
<td>P/N 13-02100</td>
<td>$54.95</td>
</tr>
<tr>
<td><strong>DELUXE CESSNA</strong></td>
<td>The deluxe Cessna towbar is very popular and designed for those who demand the ultimate in convenience and durability. Spring loaded forks allow easy one handed engagement without getting on your hands and knees. Length 45.5” extended, 26” collapsed. WT. 3.75 lbs. Ideal for Cessna RGs including 210, 310, 401 and 318.</td>
<td>Cessnas</td>
<td>P/N 13-01540</td>
<td>$65.95</td>
</tr>
<tr>
<td><strong>DUTCHESS/PIPER</strong></td>
<td>Fits Dutchess and Piper nose gear axle. Telescoping design provides extra nose gear clearance. Overall length 48”, collapsed 26”.</td>
<td>Dutchess, Pipers</td>
<td>P/N 13-02210</td>
<td>$55.75</td>
</tr>
<tr>
<td><strong>RV-A M-340-026</strong></td>
<td>Two piece spring loaded design. 26” collapsed. 43” overall. Code 7.</td>
<td>RV-A aircraft</td>
<td>P/N 13-18476</td>
<td>$64.95</td>
</tr>
<tr>
<td><strong>DELUXE PIPER</strong></td>
<td>The deluxe Piper towbar offers all the features of a standard Piper towbar plus the convenience of a two-piece design. When extended, this model provides additional propeller clearance and leverage. Length: 42” extended, 23” collapsed. WT. 3.5 lbs.</td>
<td>Pipers</td>
<td>P/N 13-01550</td>
<td>$65.95</td>
</tr>
<tr>
<td><strong>UNIVERSAL TOW BAR WITH CLEVIS HITCH</strong></td>
<td>This universal tow bar is excellent for use with tug, tractor, or by hand. It fits most Cessna singles &amp; twins with 5/8” lugs, Beech singles and twins with 1/4” lugs, all Mooneys, Twin Commanders, Lake and Comanche. Slide lock quickly adjusts and holds firmly.</td>
<td>Cessnas, Mooneys, Beech</td>
<td>P/N 13-02350</td>
<td>$183.75</td>
</tr>
<tr>
<td><strong>PIPER</strong></td>
<td>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.</td>
<td>Pipers</td>
<td>P/N 13-02351</td>
<td>$183.75</td>
</tr>
<tr>
<td><strong>SCOTT TAILWHEEL</strong></td>
<td>A tow bar designed for aircraft using a Scott 3000 series tailwheel. Overall length 48”, collapsed 28”.</td>
<td>Scotts</td>
<td>P/N 13-02205</td>
<td>$56.80</td>
</tr>
<tr>
<td><strong>BEECHCRAFT AXLE</strong></td>
<td>Its collapsible design makes it easy to fit in the baggage area. Collapsible length: 26” Overall length: 43”.</td>
<td>Beechs</td>
<td>P/N 13-02215</td>
<td>$63.80</td>
</tr>
<tr>
<td><strong>CHEETAH/CIRRUS</strong></td>
<td>This tow bar is designed to fit Grumman aircraft. Its collapsible design makes it easy to fit in the baggage area. Overall length 43”, collapsed 26”.</td>
<td>Cheetahs, Cirrus</td>
<td>P/N 13-02200</td>
<td>$66.75</td>
</tr>
<tr>
<td><strong>ERCOUPE</strong></td>
<td>Specially designed for Ercoupes. This tow bar has a spring loaded lever action for ease of operation. Overall length 46.5”, collapsed 28.5”.</td>
<td>Ercoupes</td>
<td>P/N 13-01580</td>
<td>$66.95</td>
</tr>
<tr>
<td><strong>1-1/8” AXLE</strong></td>
<td>This is a universal tow bar designed for aircraft with 1-1/8” axles such as Cessnas, Skymaster and Piper Seneca. Overall length 36”, collapsed 33”.</td>
<td>Cessnas, Pipers</td>
<td>P/N 13-02110</td>
<td>$69.85</td>
</tr>
<tr>
<td><strong>COMMANDER</strong></td>
<td>This model fits Rockwell 112 and 114. Sprung loaded forks for ease of operation. Overall length 46.5”, collapsed 28.5”.</td>
<td>Commanders</td>
<td>P/N 13-01570</td>
<td>$66.75</td>
</tr>
<tr>
<td><strong>DELUXE MOONEY</strong></td>
<td>The deluxe Mooney towbar is a longer, two piece version of a standard Mooney towbar. Attractive black caps accentuate deluxe appearance. Length: 38”, collapsed 21”. WT. 3.5 lbs.</td>
<td>Mooneys</td>
<td>P/N 13-01560</td>
<td>$57.80</td>
</tr>
<tr>
<td><strong>UNIVERSAL</strong></td>
<td>For the FBO this is an ideal hand held universal tow bar. Fits Cessnas, Beech, Piper, Scott Tailwheel and many others. Overall length 57”, collapsed 34”. Fits aircraft with 5/8” lug on the nose gear strut.</td>
<td>Universal aircrafts</td>
<td>P/N 13-02250</td>
<td>$60.85</td>
</tr>
<tr>
<td><strong>VIKING</strong></td>
<td>Designed especially for Bellanca Viking axle. Collapsible and spring loaded fork. Overall length 46.5”, collapsed 28.5”.</td>
<td>Vikings</td>
<td>P/N 13-02220</td>
<td>$77.75</td>
</tr>
<tr>
<td><strong>DELUXE BEECHCRAFT</strong></td>
<td>Spring loaded forks for ease of operation. Overall length 47”, collapsed 28”.</td>
<td>Beechcrafts</td>
<td>P/N 13-01905</td>
<td>$73.85</td>
</tr>
<tr>
<td><strong>AERO-TOW CIRRUS TOWBAR</strong></td>
<td>This Cirrus towbar is designed specifically to fit the gear of the Cirrus Aircraft. At just 6 lbs and a shipping box of 1-3/4” x 12” x 39” you will find this to be a quick and easy stowaway.</td>
<td>Cirrus</td>
<td>P/N 13-17597</td>
<td>$185.00</td>
</tr>
<tr>
<td><strong>FBO UNIVERSAL TOW BAR WITH RING HITCH T-100</strong></td>
<td>This heavy duty universal tow bar is standard equipment for FBOs. Fits: most Piper, Cessnas, Beech/Mooney, AeroCommander, and many others. The adjustable fork allows you to extend the fork assembly from 3” to 10”. This tow bar is extra long at 7 ft. 6 inches. The T-100 is not made for specific aircraft. It has spring loaded adapters that will fit 1/4” to 5/8” towpins on the aircraft axle. This will not work with aircraft that have tow pins on the landing gear.</td>
<td>Universal FBOs</td>
<td>P/N 13-02355</td>
<td>$249.95</td>
</tr>
</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. 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). | Push button operation | P/N 13-06124 | $445.00 |

**HEAVY DUTY AIRCRAFT WINCH** | Winch includes metal wind up drum, 100’ of cable 125’ of control cord. Moves aircraft up to 6,000 lbs. Includes a wall mount. | 100’ of cable 125’ of control cord | P/N 13-01764 | $445.00 |

**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. | Mounting kit only | P/N 13-01612 | $62.75 |

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*Prices Subject to Change Without Notice*
BOGERT TOW BARS (BOGI-BARS)

Light enough to tow. Built from a combination of steel for maximum durability, comfort grips on the handle and spreader bar chip resistant red bar will look great for years. Operation: extend the handle easily with high shear wick pin apply forward pressure on the spreader bar to open the wishbone links. Line up the Bogi-Back 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.

TAIL WHEEL AIRCRAFT

<table>
<thead>
<tr>
<th>Model</th>
<th>Fits</th>
<th>Extended Length</th>
<th>P/N</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-ABI</td>
<td>Aircraft Products Tailwheel</td>
<td>48&quot;</td>
<td>13-02097</td>
<td>$168.75</td>
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<tr>
<td>4-ABI</td>
<td>Alaskan Bushwheel 3400B</td>
<td>48&quot;</td>
<td>13-06106</td>
<td>$139.95</td>
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<tr>
<td>04M-XP</td>
<td>Cessna XP Modification</td>
<td>48&quot;</td>
<td>13-06107</td>
<td>$188.80</td>
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<tr>
<td>4-TDG</td>
<td>Scott 3200 &amp; 3400ABI</td>
<td>48&quot;</td>
<td>13-10000</td>
<td>$139.95</td>
</tr>
<tr>
<td>4-F24</td>
<td>Fairchild 24, Beech Stagger Wing</td>
<td>48&quot;</td>
<td>13-02410</td>
<td>$152.75</td>
</tr>
<tr>
<td>4-RV</td>
<td>Vans RV-3, RV-4, RV-8, RV-9</td>
<td>48&quot;</td>
<td>13-02408</td>
<td>$139.95</td>
</tr>
<tr>
<td>4-28R</td>
<td>Piper PA-28R Series - Hand Pull for dog-leg style</td>
<td>49&quot;</td>
<td>13-01899</td>
<td>$139.95</td>
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NOSE WHEEL AIRCRAFT

<table>
<thead>
<tr>
<th>Model</th>
<th>Fits</th>
<th>Extended Length</th>
<th>P/N</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>4-35</td>
<td>Beechcraft- Bonanza, Debonair, Duchess, Duke &amp; Skipper</td>
<td>49&quot;</td>
<td>13-10030</td>
<td>$139.95</td>
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<tr>
<td>4-19-23B</td>
<td>Beechcraft-Muskeeteer, Sport, Super, Sierra &amp; King Air</td>
<td>48&quot;</td>
<td>13-01808</td>
<td>$139.95</td>
</tr>
<tr>
<td>4-170</td>
<td>Bellanca-Viking Series</td>
<td>48&quot;</td>
<td>13-01809</td>
<td>$139.95</td>
</tr>
<tr>
<td>4-172</td>
<td>Cesna 150, 152, 172, 175, 182, 310B, RV-4</td>
<td>48&quot;</td>
<td>13-10040</td>
<td>$139.95</td>
</tr>
<tr>
<td>4-206</td>
<td>Cesna 206, 206 &amp; 207</td>
<td>48&quot;</td>
<td>13-10060</td>
<td>$139.95</td>
</tr>
<tr>
<td>4-210</td>
<td>Cesna 172RG, 177RG, 182RG &amp; 210 Series</td>
<td>48&quot;</td>
<td>13-10050</td>
<td>$179.95</td>
</tr>
<tr>
<td>4-182-XL</td>
<td>Cesna 182S (1996 and up) and T (2001 and up) models with long nose.</td>
<td>55&quot;</td>
<td>13-11389</td>
<td>$154.95</td>
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<tr>
<td>4-S-1R</td>
<td>Cirrus SR 20/22/2</td>
<td>48&quot;</td>
<td>13-06108</td>
<td>$139.95</td>
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<tr>
<td>4-AA</td>
<td>Gulfstream American AA1 &amp; AA5</td>
<td>48&quot;</td>
<td>13-02407</td>
<td>$139.95</td>
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<tr>
<td>4-Lake</td>
<td>Lake AmphiBul</td>
<td>48&quot;</td>
<td>13-02411</td>
<td>$178.75</td>
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<tr>
<td>4-Moon</td>
<td>Mooney Aircraft</td>
<td>48&quot;</td>
<td>13-01810</td>
<td>$139.95</td>
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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>$21.90</td>
</tr>
<tr>
<td>T-MU-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>T-WA-11</td>
<td>Tail Wheel Adapter for DGA-Staggerwing</td>
<td>13-01891</td>
<td>$22.90</td>
</tr>
<tr>
<td>T-4W</td>
<td>Wheel Set (Set of 2) for TR-34</td>
<td>13-01892</td>
<td>$122.75</td>
</tr>
<tr>
<td>T-37S</td>
<td>Adapter .375&quot; for Aerospatiale-Trinidad, Tabago (2 pcs.)</td>
<td>13-01893</td>
<td>$19.50</td>
</tr>
<tr>
<td>T-47S</td>
<td>Adapter .475&quot; Outer Diameter (2 pcs, req.)</td>
<td>13-01894</td>
<td>$17.90</td>
</tr>
<tr>
<td>T-62S</td>
<td>Adapter .625&quot; for Augusta 109 &amp; Others (2 pcs, req.)</td>
<td>13-01895</td>
<td>$17.85</td>
</tr>
<tr>
<td>T-750</td>
<td>Adapter .750&quot; for Commander 114, 576 &amp; Other</td>
<td>13-01896</td>
<td>$17.50</td>
</tr>
<tr>
<td>T-Maule</td>
<td>Adapter for Maule Tail Springs (1 pc, req.)</td>
<td>13-01897</td>
<td>$86.75</td>
</tr>
<tr>
<td>T-34-04</td>
<td>Shock Absorbing Ring Hitch (1 pc, req.)</td>
<td>13-01898</td>
<td>$189.95</td>
</tr>
<tr>
<td>T-PC</td>
<td>Towbar, Pipe 103-12, 2 pcs, req.</td>
<td>13-01899</td>
<td>$252.95</td>
</tr>
<tr>
<td>T-PC9</td>
<td>Towbar, Pipe 103-12, 2 pcs, req.</td>
<td>13-01900</td>
<td>$517.00</td>
</tr>
<tr>
<td>T-S2</td>
<td>Towbar, Avs: 3 pcs, 18 lbs</td>
<td>13-01755</td>
<td>$335.00</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'. Weight: 62 lbs. Ring Hitch/P/N 13-10131............$939.00

The TH-6 is a light-weight universal towbar designed primarily for hand towing. The TH-6 eliminates the mad hunt for the proper towbar when moving a hangar full of singles and light twins. This towbar also has a good handle for pulling and a ring bail or clevis hitch for occasional light towing. NOTE: The Piper manual states that the tow pins are for hand towing. For powered towing we suggest adapter set P/N 13-1544B.

MODEL TR-7

FOR MORE TOWBARS AND ADAPTERS.

TWA-10 Scott Tail Wheel Adapter (2 pcs, req.) | 13-10089 | $21.90 |

MODEL TR-34

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

Ring Hitch (TR-34B) | P/N 13-10086 | $695.00 |

Clevis Hitch (TR-34C) | P/N 13-10087 | $662.00 |

TWA-10 Scott Tail Wheel Adapter (2 pcs, req.) | 13-10089 | $21.90 |

BRACKET TH-6 TOWBARS -

The TH-6 is a light-weight universal towbar designed primarily for hand towing. The TH-6 eliminates the mad hunt for the proper towbar when moving a hangar full of singles and light twins. This towbar also has a good handle for pulling and a ring bail or clevis hitch for occasional light towing. NOTE: The Piper manual states that the tow pins are for hand towing. For powered towing we suggest adapter set P/N 13-1544B.

MODEL TR-71, 72, & 73


TR-71B Towbar with Ball hitch.....................P/N 13-10107 | $586.00 |

TR-72B Towbar with Ball hitch.....................P/N 13-01908 | $586.00 |

TR-73B Towbar with Ball hitch.....................P/N 13-01909 | $586.00 |

TR-71R Towbar with Ring hitch......................P/N 13-03339 | $620.00 |

TR-73R Towbar with Ring hitch......................P/N 13-03340 | $557.00 |

TR-53R Towbar with Ball hitch......................P/N 13-10040 | $252.95 |

TR-53B Towbar with Ball hitch......................P/N 13-03339 | $620.00 |

TR-53C Towbar with Clevis hitch....................P/N 13-03340 | $557.00 |

TR-71R Towbar with Ring hitch......................P/N 13-01910 | $586.00 |

TR-73R Towbar with Ring hitch......................P/N 13-01912 | $586.00 |

TR-53B Towbar with Ball hitch......................P/N 13-03339 | $620.00 |

TR-53C Towbar with Clevis hitch....................P/N 13-03340 | $557.00 |

TR-71R Towbar with Ring hitch......................P/N 13-01910 | $586.00 |

TR-73R Towbar with Ring hitch......................P/N 13-01912 | $586.00 |

TR-53B Towbar with Ball hitch......................P/N 13-03339 | $620.00 |

TR-53C Towbar with Clevis hitch....................P/N 13-03340 | $557.00 |

TR-71R Towbar with Ring hitch......................P/N 13-01910 | $586.00 |

TR-73R Towbar with Ring hitch......................P/N 13-01912 | $586.00 |

TR-53B Towbar with Ball hitch......................P/N 13-03339 | $620.00 |

TR-53C Towbar with Clevis hitch....................P/N 13-03340 | $557.00 |
**TO W BARS – TUGS**

### THE TAIL-DRAGGER DRAGGER

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

**Tail-Dragger Dragger™ Features:**

- Patented Design
- No Winches
- No Hydraulics
- No Metal To Metal Contact
- No Adapters Required
- Superior Traction
- 5 Second Loading & Unloading
- Will fit Almost Any Aircraft
- Tail Wheel Stays In Trailing Position
- Lifting Pins Grip & Lift Tail Wheel
- Maneuver In Any Direction
- Operator Has Good View
- Of Wingtips

#### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>Standard tail Dragger</td>
<td>13-01510</td>
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<tr>
<td>Tail Dragger Dragger Gas</td>
<td>13-01824</td>
<td>$1,995.00</td>
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### NOSE WHEEL DRAGGER DRAGGER

This Nose-Dragger Dragger features a swivel 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-fiberglass contact. Available in gas or electric power models. The 12 volt 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 13-05101...$1,995.00

#### Description

<table>
<thead>
<tr>
<th>Description</th>
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<th>Price</th>
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<tr>
<td>Snow Chains</td>
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<tr>
<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>
<td>$58.75</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 5,000 lbs. without wheel fairings as well as those with wheel fairings that have 3" or greater of clearance from the fairing to the ground. It utilizes a smooth thumb throttle speed control for precise forward and reverse movements. The built in differential allows for easier turning and even better control!

**Description**

- Comes with batteries and smart charger! Ships fully assembled!

**Part No.**

P/N 13-18756 ...........$2,195.00

### ELECTRIC DRAGGER® TAIL-DRAGGER

Tail-dragger / conventional gear and has 100% fully adjustable Parker-Pins on ((1)) side only. This towbar fits almost all Van's RV tail draggers and J3-Cubs thru 450 Stearmans. The PICKER you see here is a rugged built and power 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.

**Part No.**

P/N 13-14774 ..........$259.00

### BABY BUSH PICKER-1A

The Baby Bush PICKER-1A is for tail-dragger/conventional gear aircraft and has 100% fully adjustable Parker-Pins on ((1)) side only. This PICKER is intended for tail wheels up to 6 inches 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.

**Part No.**

P/N 13-16047 ..........$269.00

### LSA SPORT PICKER-3 TOW BAR

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

**Part No.**

P/N 13-18893 ...........$119.00

### ACCESSORIES

See www.aircraftspruce.com for complete application list

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>Universal Big Bogi Bar</td>
<td>12-03168</td>
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<tr>
<td>Jabiru Sport Kit Fox</td>
<td>12-03171</td>
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<td>Cessna 150, 152, 172, 182 15</td>
<td>12-03172</td>
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<td>Cirrus 190, 22</td>
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<td>PA22, 28, 32, Cherokee Six</td>
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<td>Aerostar, Bellanca, Mooney</td>
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<td>Glasstec, Legend Cub, Rockwell</td>
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<td>Alaskan Bushwheel, Scott 3200, 3400</td>
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<td>Diamond DA-40</td>
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<td>Beechcraft Bonanza, S35</td>
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### ACCESSORIES

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<tr>
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<tr>
<td>2&quot; Hitch Ball Receiver</td>
<td>For the 12-03168 Universal Big Bogi Bar.</td>
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<tr>
<td>With Ring....................</td>
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<tr>
<td>With Clevis..................</td>
<td>P/N 11-11517</td>
<td>$86.75</td>
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### 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.

#### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<tr>
<td>TY-TB1D Multi-Link Towbar</td>
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<td>TY-TB1D Multi-Link Towbar</td>
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<td>TY-TB1D Flat Tire Dolly 7/8</td>
<td>13-04159</td>
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<tr>
<td>King Air Queen Air Head Only</td>
<td>13-16160</td>
<td>$554.00</td>
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**See www.aircraftspruce.com for complete multi-link selection.**

---

**Note:** Prices Subject to Change Without Notice
TOW BARS – TUGS

ROBOTOW PORTABLE TOW BAR

All weather Robotow 24SL. It 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 motorized towbar for the aircraft listed below. Kits include Robotow, Battery, and Charger (US Charger or International Charger). Order axle adapters separately.

<table>
<thead>
<tr>
<th>Description</th>
<th>Parts #</th>
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<tr>
<td>Robotow 6420 24V Towbar Cordless Kit with U.S. Charger</td>
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<tr>
<td>Robotow 6426 24V Towbar Cordless Kit with U.S. Charger</td>
<td>13-04223</td>
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<tr>
<td>Robotow 6961 cabled 120V, with built extension cord</td>
<td>13-03927</td>
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ACCESSORIES

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<tr>
<td>Robotow 8 Amp/12V Battery</td>
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<tr>
<td>Robotow 6452 24 SL 8 amp Battery</td>
<td>13-11264</td>
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<td>Robotow 6427 24 SL 8 amp Charger</td>
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AIRPLANE ADAPTERS (SOLD SEPARATELY)

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<tr>
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<td>Robotow Adapter Aeron Commander</td>
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<td>Robotow Adapter Beech 1 / Baron / Bonanza / Dornier Duke</td>
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<td>$113.75</td>
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<td>Robotow Adapter Beech 2 / Queen Air / Twin Bonanza / Trigear 18</td>
<td>13-03906</td>
<td>$192.75</td>
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<td>Robotow Adapter Cessna 1 / 150, 172, 182, 210, 340</td>
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<td>Robotow Adapter Cessna 2 / 310R, 401, 414, 421</td>
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<td>$113.75</td>
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<tr>
<td>Robotow Adapter Cessna 3 / 182RG (Pre-1962), 206, 210 (Pre-1962)</td>
<td>13-03909</td>
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<td>Robotow Adapter Cessna 4 / 337, 303</td>
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<tr>
<td>Robotow Adapter Cessna 5 / 182RG and 210 (1962-1986)</td>
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<td>Robotow Adapter Piper 1 / Apache, Comanche, Aztec, Navajo, Twin Comanche, Bellanca</td>
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<td>$113.75</td>
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<td>Robotow Adapter Piper 2 / Colt, Cherokee, Tri-pacer</td>
<td>13-03913</td>
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<td>Robotow Adapter T28 Trainer</td>
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<tr>
<td>Robotow Adapter Trinidad</td>
<td>13-03918</td>
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</table>

CESNA TOWBAR EXTENSION

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

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.

TAILWHEEL TRANSPORTER I TOW BAR

An almost effortless way to move your light tail wheel aircraft on the ground. A perfect match for Piper Cubs, aerocama Champs or most any other light taildragger airplane. Requiring only 10.5 inches of ground clearance where the tail wheel spring is mounted to the fuselage, the Tailwheel Transporter attaches to your aircraft in just seconds and with only one movement of the lifting arm it lifts and locks the tail wheel. No modifications to your aircraft.

DELCXUE TAILWHEEL TOWBAR

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

STORMAN 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 13-04918 ........... $269.00

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-6A. 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.

Piper TOWBAR ADAPTER

Piper Adapter. This adapter fits any towbar with a 3/4” or larger hole. With this adapter you can move Piper 28 series aircraft with the attach holes approximately 4 inches apart. P/N 13-19787 ................ $250.00

BEECH TOWBAR ADAPTER

Beech Adapter. With this adapter you can move Beech Aircraft with the little tow pin. This adapter fits any towbar with a 3/4” or larger hole. Note: The grip length; (distance from nut to bolt head) is 1 1/2”. With this adapter you can move Beech series aircraft with the small pin. P/N 13-19783 ................. $30.00

HEAVY DUTY TOW BUDDY CORDLESS POWERBAR

Features: • No Flammable gasoline needed in hangar • Easy To Use • Infinite Speed Control • Versatile Applications • Push button forward and reverse control • Nose gear quick attach for easy nose gear hook up. • The adjustable fork height fits virtually any aircraft • Trike chock and rear battery • Large 16 x 6.50 - 8 turf tire • For aircraft weight of 3500 to 4500lbs. Battery not included. P/N 13-04513 ............... $1,543.00

NOSE PICKER HEAVY DUTY AIRCRAFT TUG

Recommended for up to a 4,000 pound aircraft. Entire chassis can be raised or lowered, and three different sized front wheels can be used to create exact measurements for aircraft. The 24-volt, ships assembled inside a wooden crate, Batteries not included. P/N 13-21166 ........ $2,150.00

WWW.AIRCRAFTSPRUCE.COM
REDLINE TOW BARS

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

Beechcraft bar fits: Bonanza, Baron, Travel Air, T-34
Cessna single engine bar fits: 172RG, 177RG, 182RG, 210, P210
Cessna twin engine bar fits: C-310, C-320, C-340, C-414, C-421
Mooney bar fits: All Mooney Models

REDLINE BE-3/BE-3XL TOWBARS
BE-3: 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.
BE-3XL: 2-piece design for hand or powered use. Extends to 48.5”, collapses to 31.5” and weighs 3 pounds 6 ounces. Made in the USA using 4130 Chromoly material.

Application Part No. Price
BE-3 Beechcraft - Fits Bonanza, Baron, Travel Air, T-34 13-06841 $294.00
BE-3XL Cessna - Fits 172RG, 177RG, 182RG, 210, P210 13-06843 $294.00
BE-3XL Mooney - Fits All 13-06846 $294.00
BE-3 Piper - Fits Arrow, Lance, Saratoga (RG) 13-06844 $294.00
BE-3XL Piper - Fits Arrow, Lance, Saratoga (RG), Mooney, Matrix 13-06845 $294.00

REDLINE BE-4 TOWBARS
2-piece design for hand or powered use for heavier airplanes. Extends to 61.5” and 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 Beechcraft - Fits Bonanza, Baron, Travel Air, T-34, Duchess 13-06849 $389.00
BE-4 Piper - Arrow, Lance, Saratoga (RG), Mooney, Matrix, Meridian, Seminole 13-06851 $389.00
BE-4 Eclipse - Fits All 13-06852 $389.95
ST-1 Vehicle Adapter 13-04066 $59.50

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.

Application Part No. Price
ST-1 Vehicle Adapter.............P/N 13-06846...........$209.00
ST-1 Vehicle Adapter.............P/N 13-04066...........$59.50

REDLINE PH-1 FOR ECLIPSE
Main gear axle adapter allow the use of floor jack or bottle jack for tire maintenance. Made in the USA using 4130 Chromoly material. FITS ALL ECLIPSE AIRCRAFT. P/N 13-06853...........$349.00

REDLINE UL/UL-XT TOWBARS
UL: Very light weight, 2-piece design for hand towing only. Extends to 43.5”, collapses to 26.5” and weighs 3 pounds 4 ounces. Made in the USA using 4130 Chromoly material.
UL-XT CECESSNA Very light weight, 2-piece design for hand towing only. Extends to 48.5”, collapses to 31.5” and weighs 3 pounds 6 ounces. Made in the USA using 4130 Chromoly material.
UL- XL MOONEY: 2-piece design for hand or powered use for heavier airplanes. Extends to 61.5” and collapses to 33” and weighs 5 pounds. Made in the USA using 4130 Chromoly material.

Application Part No. Price
UL - Beechcraft - Fits Bonanza, Baron, Travel Air, T-34 13-01914 $209.00
UL-XT - Cessna - Fits 172RG, 177RG, 182RG, 210, P210 13-01917 $210.00
UL-XT Mooney - Fits All 13-06847 $209.00
UL - Piper - Fits Arrow, Lance, Saratoga (RG) 13-01915 $195.85

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

Application Part No. Price
Beechcraft - Bonanza, Baron, Travel Air, T-34 13-04064 $225.00

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

Application Part No. Price
Eclipse.............P/N 13-06854...........$149.00

SIDESWINDER attatched securely to the front wheel.

Sidewinder extended.

Sidewinder collapsed.

Prices Subject to Change Without Notice
WWW.AIRCRAFTSPRUCE.COM
## AIRCRAFT TUGS

### TRACE TOWBOTS REMOTE CONTROL AIRCRAFT TUG

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

**Specifications:**
- Measures 38" Wide x 46" Long x 12" Tall
- 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 based on level, smooth, paved surfaces.
- Rocker switch for forward/reverse
- Adjustable speed
- Virtually silent when moving
- Environmentally friendly - no exhaust
- Average battery life: 3 hr
- Dual Battery Pack - 24v system
- Easily remove 24v battery when moving
- Environmentally friendly - no exhaust

### PRICELESS TRANSAXLE BATTERY OPERATED TUG

Easily move small aircraft quickly and safely in tight areas. The model 701 is collapsible for compact stowing. Optional ball hitch attachment for movement of small trailers and campers.

**Model 701:** Move aircraft weighing up to 4,500 lbs. Max Tow. Tug performance data based on level, smooth, paved surfaces.

**Features:**
- 400W effective power
- 24 V DC Electric motor
- Operator can easily control steering
- Rocker switch for forward/reverse
- Adjustable speed
- Virtually silent when moving
- Environmentally friendly - no exhaust
- Average battery life: 3 hr
- Dual Battery Pack - 24v system
- Easily remove 24v battery
- Collapsible design
- Easy adjust handle for user comfort
- Universal adaptor attachment for quick tool-free connection to a wide range of aircraft.

### PRICELESS TRANSAXLE GAS OPERATED TUG

Designed and built to save time and money for FBOs, Maintenance Shops, Corporate aviation or anyone needing to move aircraft. The 707 Tug makes it easy for one person to maneuver aircraft quickly and safely in tightly stacked hangars or staging on the ramp.

**Model 707:** Move aircraft weighing up to 9,500 lbs. Max Tow. Tug performance data based on level, smooth, paved surfaces.

**Features:**
- 340cc Honda OHV Engine
- EPA approved
- Gasoline (87-100LL)
- Electric start
- Heavy Duty transmission
- Disc brake
- High-floating pneumatic drive tires
- Lazy Susan
- Quick-Lock strap to secure nosewheel
- Headlight

### TUGMAXXE® SM 2.0 TWIN ENGINE AIRCRAFT TUG

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

### TUGMAXXE® SM2.2 HELICOPTER TUG

Small, powerful, and reliable. Especially designed for Robinson Helicopters (R22, R44, and R66). Powerful high-torque rotary drive 24V 500W DC effective power electric motor resourcefully applied. Allows noiseless silent maneuvering and movement of Robinson helicopter rotary aircraft up to max 8,800 lbs (4t) quickly and safely in tight areas. Environmentally friendly - no exhaust. P/N 13-18771

### TUGMAXXE® ACCESSORIES

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<thead>
<tr>
<th>Description</th>
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<td>Tugmaxxe® 2 Light Aircraft Adapter Diamond DA40</td>
<td>13-20670</td>
<td>$149.00</td>
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<tr>
<td>Tugmaxxe® 2 Light Aircraft Adapter Beech Bonanza B33 to B36</td>
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<tr>
<td>Tugmaxxe® 2 Light Aircraft Adapter Socata TB20 and TB21</td>
<td>13-20672</td>
<td>$149.00</td>
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<tr>
<td>Tugmaxxe® Power Outlet</td>
<td>13-20674</td>
<td>$119.00</td>
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<tr>
<td>Tugmaxxe® Three-Axis Tiller Control Handle</td>
<td>13-20673</td>
<td>$559.00</td>
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<tr>
<td>Tugmaxxe® Heavy Duty All Terrain Tires</td>
<td>13-20675</td>
<td>$242.00</td>
</tr>
<tr>
<td>Tugmaxxe® Snow Chains</td>
<td>13-20676</td>
<td>$290.00</td>
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</tbody>
</table>

### PRICES

- Heavy Duty - Incorporates Gear Reduction and is 36V (With APU) up to 30,000 Lbs: $12,300.00
- Heavy Duty - Incorporates Gear Reduction and is 36V (No APU) up to 30,000 Lbs: $10,800.00
- Standard Model (With APU) Up to 15,000 lbs: $8,295.00
- Standard Model (No APU) Up to 15,000 lbs: $9,785.00
- Tugmaxxe® Three-Axis Tiller Control Handle: $559.00
- Tugmaxxe® Power Outlet: $119.00
- Tugmaxxe® Heavy Duty All Terrain Tires: $242.00
- Tugmaxxe® Snow Chains: $290.00

**Note:** Prices Subject to Change Without Notice.
PRICELESS AIRCRAFT TUGS

PRICELESS UTILITY  701D TUG
Easily move equipment quickly and safely in tight areas. The model 701D is collapsible for compact stowing. 4500lb Capacity.  
P/N 11-15533 ...................... $2,995.00

PRICELESS 701E MGTOW TUG
Easily move small aircraft quickly and safely in tight areas. The model 701E is collapsible for compact stowing. The articulating swivel attachment makes it easy to maneuver without having to pick up the unit. The model 701EL is equipped with an extra-heavy-duty battery for longer life. 4500lb Capacity. 
P/N 11-15532 ................. $3,245.00

PRICELESS HELICOPTER 701HB TUG
Moves Robinson R22 & R44 Helicopters. The model 701HB tugs, developed with the same technology used for the fixed wing market, is for easier transportation of a Robinson helicopter in hangars and air fields. As the industry has come to expect, the engineers have added many user-friendly features not found on today’s market. The model 701HBL is equipped with an extra-heavy-duty battery for longer life. 
P/N 11-15534 ...................... $7,295.00

PRICELESS LAZYSUSAN 709 TUG
Designed and built to save time and money for FBOs, Maintenance Shops, Corporate aviation or anyone needing to move corporate jets, helicopters and transports for thousands of dollars less than the nearest competitor! The 709 Tug makes it easy for one person to maneuver aircraft quickly and safely in tightly stacked hangars or staging on the ramp. 12500lb Capacity. 
P/N 11-15535 ...................... $7,295.00

PRICELESS LAZYSUSAN HELICOPTER 709H TUG
Designed and built to save time and money for FBOs, Maintenance Shops, Corporate aviation or anyone needing to move aircraft. The 709H LazySusan Tug was designed specifically for low profile helicopters and other aircraft to make it easy for one person to maneuver aircraft quickly and safely in tightly stacked hangars or staging on the ramp. 12500lb Capacity.  
P/N 11-15536 ...................... $7,995.00

PRICELESS CLAMP AND LIFT 717 TUG
Designed and built to save time and money for FBOs, Maintenance Shops, Corporate aviation or anyone needing to move aircraft. The 717 Clamp&Lift™ Tug makes it easy for one person to maneuver aircraft quickly and safely in tightly stacked hangars or staging on the ramp. 15500lb Capacity. 
P/N 11-15538 ...................... $10,995.00

VISIT OUR WEBSITE FOR FEATURES & SPECIFICATIONS
WWW.AIRCRAFTSPRUCE.COM
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, 6 horsepower gas engine. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its’ pinpoint handling makes this unit a great choice. All of these features simply make this aircraft tug the best in the industry!

Features:
- Loading System: Winch Strap/Strut Strap with Accessory options
- Parts Warranty: 1 Year
- Tow Weight: Up to 8,100 lbs.
- Turning Radius: 360° with handle-mounted Caster
- Construction Details Specifications: 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle 16" x 6" - 6 ply on 8" Drive Wheels • Drive wheels capable of handling nosewheel weights up to 2000 lbs. • Welded load platform mounted between the drive wheels for added traction.

P/N 13-07284 .......................$3,595.00

AIRTUG® 6-H GAS POWERED

The 6-H aircraft tug model is the tug of choice for those who need to lower the tail to enter a hangar, and might also need to handle nose-wheel fairing aircraft. The nose-wheel is loaded the same as the Model 6-H, and 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.

Features:
- Loading System: Handle mounted Caster
- Parts Warranty: 1 Year
- 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 13-07285 .......................$3,795.00

AIRTUG® 10-S GAS POWERED

“Return to Brake” feature 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.

Features:
- Loading System: Winch Strap/Strut Strap with Accessory options
- Parts Warranty: 1 Year
- 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 .......................$4,795.00

AIRTUG® EL3-S ELECTRIC POWERED

Same great power and moving capacity as the larger gas powered unit, but in a QUIET electric model! 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. A light is also built in for ease of seeing under the fuselage at night.

Features:
- Loading System: Winch Strap/Strut Strap with Accessory options
- 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 lower axle clearances and 13” Drive Tires option?

P/N 13-07286 .......................$5,395.00

AIRTUG® EL3-H ELECTRIC POWERED

Same great power and moving capacity as the larger gas powered unit, but in an electric model! 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 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: 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.

P/N 13-07287 .......................$5,495.00

AIRTUG® NFE-4 ELECTRIC FOR CIRRUS

Moves the CIRRUS Aircraft and other casting nose-wheel aircraft easily and makes the moving aircraft a simple task for a single person. The BEST TUG for CIRRUS aircraft or any other casting or non-casting nose- fairing aircraft. Simply attach the small towbar by hand to the aircraft and then winch the low-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. Can move 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: 85” long x 36” wide x 42” tall. 1 Year Warranty. 30 Day Money Back Guarantee!

P/N 13-14974 .......................$3,759.00

ADDITIONAL ADAPTORs

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<thead>
<tr>
<th>Description</th>
<th>Part</th>
<th>Price</th>
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<tbody>
<tr>
<td>Airtug Nfe-4 Cirrus Adapter</td>
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<tr>
<td>Airtug Nfe-4 Diamond Da20 Adapter</td>
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<tr>
<td>Airtug Nfe-4 Diamond Da40 Adapter</td>
<td>13-14977</td>
<td>$285.00</td>
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</table>

WWW.AIRCRAFTSPRUCE.COM

937
FLY TIES TIE DOWNS
FlyTies Tie Downs Rated “Top Choice” by Aviation Consumer
FlyTie® unique design allows quick insertion and quick removal using the easy-out extraction tool provided. Rugged, die-cast steel rods are 3/8” x 14” for deeper penetration into hard ground. Cumulative load capacity is 3,600 lbs. Kit includes 3 eas. Defrin hubs, 9 eas. steel rods, 3 ea. 3/8” x 12’ ropes, easy-out extraction tool and rugged compact canvas tote bag. Complete kit weighs only 6 lbs. (less than 1 gal of Avgas) and has a lifetime warranty.

P/N 15-22751 $98.85

TIE-DOWN EYE BOLT
For non-structural applications. The 7/16” dia, threaded shaft x 8” long. Overall length 2-1/2”. Furnished with AN365-720 elastic stop nut and wide-area AN970-7 washer.

P/N 15-04033 $9.75

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

Description Part No. Price
Piper Tie Down Rings - aluminum painted - white 13-11221 $198.00
Piper Tie Down Rings - gold 13-17627 $236.95
Piper Tie Down Rings - buffed stainless 13-19956 $198.00

PIPER/BEech SKID & STRIKE PLATES

Description Part No. Price
Piper Tail Skid - aluminum painted - white 13-11225 $198.00
Piper Tail Skid - aluminum plated - white 13-17626 $236.95
Beech Stainless Steel Tail Skid & Strike Plate - gold 13-17627 $236.95
Beech Stainless Steel Tail Skid - gold (no plate necessary) 13-19955 $198.00
Beech Stainless Steel Tail Skid & Strike Plate - white 13-19956 $198.00

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

When making your own length of tie-downs, add at least 30” for rope reversal and knots.

P/N 13-00448 Low wing or tail $24.75
P/N 13-00449 High wing $23.50

AEROSPOILER KIT, AEROSPOILER EXTENSION KIT
Kit contains 10 cup/receiver assemblies and 8 30°x3° inch blade assemblies. Each kit contains 20’ of wing coverage. The Aero Spoiler will reduce the lift producing capability of your aircraft wing by as much as 96% on the area of wing covered by the Spoiler. Extension Kits are available for aircraft requiring more than 20’ of wing coverage.

Aero Spoiler Kit...... P/N 13-06505 $179.00
Extension Kit ....... P/N 13-06506 $99.00

Website: WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
**TIE-DOWNS**

**“THE CLAW” TIE-DOWN SYSTEM**

**Features**: Easy installation; Easy removal. No more struggling with screw-in anchors. The “Claw®” is designed exclusively for aircraft. The “Claw®” system has a 3600 lb. combined capacity. The last tie down you will ever have to buy - Lifetime Warranty. Tremendous holding strength. The hardener 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

**$59.95**

**JEB’S REMOTE TIE-DOWN KIT**

Remote Release System - This new safety device will be appreciated by anyone who hand starts their plane. Release and retrieve without leaving the cockpit - get off to a safe start.

P/N 13-04787

**$59.95**

**BAGGAGE TIE-DOWN**

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

P/N 13-01729.............$46.50

**E-Z LOCK TIE DOWNS**

EZ-Lock Tie Downs allow for simple, one-person tie-down of aircraft, with no knots to tie. Features weather-, oil- and gas-resistant polypropylene rope for long product life. 72” 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 approximately 54 inches. The SlideDown is easily adjustable to reach most anchor points. This stainless steel tiedown shackle will fit any 1 inch wide tie-down point. 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 compacted soils resulting in superior holding strength. This exclusive design provides two to three times the holding strength of spike type.
ASA WHEEL CHOCKS

These tire stops are for keeping aircraft securely parked. A pair of black molded plastic wheel stops are connected with 22’’ bright yellow and black braided nylon rope that won’t rot or retain water. The bottom cleats keep aircraft securely parked. Lightweight: 7-3/4’’ x 2-1/2’’ x 4-1/2’’, concave design fits any aircraft tire. One pair is needed for each wheel.

P/N 13-05752 .................. $33.50

FOLD DOWN MINI CHOCKS

These mini chocks are so small and light you can take them with you. They work perfectly on both hard and dirt surfaces. Anodized aluminum, each wheel pair folds down to 3.75’’ x 2’’ x 5’’ & weighs just 4 oz. A 22’’ lanyard is attached.

P/N S229 ...................... $17.95

MOLDED WHEEL CHOCKS

The “Perfect” lightweight orange urethane aircraft wheel chocks. Oil and chemical resistant and connected by a 22-inch nylon rope. Concave design that fits into tire. Larger sizes available.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td>P/N 13-03550</td>
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<tr>
<td>Yellow</td>
<td>P/N 13-11657</td>
<td>$44.75</td>
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PARK IT PLATES

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

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>24x24</td>
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<tr>
<td>30x30</td>
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HANDY CHOCKS

5904 “Handy Chocks” Lightweight - 8 oz.
Powder Coated Aluminum Chock 1 Pair per Package
Red                                        P/N 13-06405 ....... $22.95
Yellow                                      P/N 13-06406 ....... $22.95

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 block. 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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<tr>
<td>Safe T Chock Line 12” Red</td>
<td>13-01011 ...... $29.95</td>
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<tr>
<td>Safe T Chock Line 12” Yellow</td>
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<tr>
<td>Safe T Chock Line 36” Red</td>
<td>13-01031 ...... $39.95</td>
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<tr>
<td>Safe T Chock Line 36” Yellow</td>
<td>13-01032 ...... $39.95</td>
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</table>

CHOCKERS PROTECTIVE WHEEL COVER/CHOCK

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>500x600x6</td>
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<tr>
<td>700x800x8</td>
<td>P/N 13-19777</td>
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CUSTOM WHEEL CHOCKS FOR LARGE JETS

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

<table>
<thead>
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<th>Description</th>
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<tr>
<td>Bare Aluminum - 1 Set</td>
<td>13-14005 ...... $34.95</td>
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<tr>
<td>Bare Aluminum - 2 Sets</td>
<td>13-14006 ...... $69.95</td>
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<tr>
<td>Powdercoat Black - 1 Set</td>
<td>13-14052 ...... $149.95</td>
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<tr>
<td>Powdercoat Black - 2 Sets</td>
<td>13-14053 ...... $249.95</td>
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<td>Powdercoat Orange - 1 Set</td>
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<td>Powdercoat Orange - 2 Sets</td>
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<tr>
<td>Powdercoat Grey - 2 Sets</td>
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TRAVEL CHOCKS

Very lightweight wheel chock designed for airplanes and other vehicles. Compact and easily stored. Powder coated in durable red, blue, or orange finish. Available in 3 sizes. Check set for one wheel only. Small - 1 1/2’’ angle x 6’’ long x 1/8” Thick Heat Treated Alum. Medium - 2’’ x 2’’ x 9/16’’ Thick Angle Heat Treated Alum. Large - 3 1/2’’ x 3 1/2’’ x 8’’ Heat Treated 3/16’’ Thick Alum.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
</table>
| Sm. Blue
Sm. Red                        | 13-11150 ....... $29.50 |
| Sm. Yellow                      | 13-11151 ....... $39.50 |
| Lg. Red                         | 13-11161 ....... $39.50 |
| Lg. Yellow                      | 13-11162 ....... $49.50 |

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 1/2’’ angle and 8’’ wide. Available in Black Powdercoat, Orange Powdercoat, and Grey Powdercoat. Weight is only 9oz per pair, or 18oz for complete set of two pair. These wheel chocks are designed for aircraft up to approximately 3,000 lbs. They are low profile and will fit under the wheel pants of aircraft such as RVs.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>1.5 inch Bare Aluminum - 1 Set</td>
<td>13-13118 ...... $57.75</td>
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<td>1.5 inch Bare Aluminum - 2 Sets</td>
<td>13-13120 ...... $105.75</td>
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<tr>
<td>1.5 inch Powdercoated - 1 Set</td>
<td>13-13093 ...... $115.75</td>
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<tr>
<td>1.5 inch Powdercoated - 2 Sets</td>
<td>13-13095 ...... $153.75</td>
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<tr>
<td>2.5 inch Bare Aluminum - 1 Set</td>
<td>13-13211 ...... $84.75</td>
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<tr>
<td>2.5 inch Bare Aluminum - 2 Sets</td>
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<td>2.5 inch Powdercoated - 1 Set</td>
<td>13-13214 ...... $140.75</td>
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<tr>
<td>2.5 inch Powdercoated - 2 Sets</td>
<td>13-13224 ...... $186.75</td>
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</table>

Specify color for Powdercoated Chocks.

WOOD WHEEL CHOCKS

These chocks feature heavy duty wood construction and are finished in bright safety yellow. Connected with 18” of braided nylon rope.

Attention: Total of characters may not exceed 6.

Example: (N) xxxxx - (Text) abcdef

<table>
<thead>
<tr>
<th>Description</th>
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<td>Standard chocks w/ your N# or company name</td>
<td>P/N 13-01765 ...... $33.95</td>
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RUBBER WHEEL CHOCKS

These ribbed rubber wheel measures 4”x4”x8” and have reflective tape on all three sides. Connected with nylon rope. Very popular with corporate operations & FBOs.

P/N 13-01767 .................. $53.75

AIRGIZMOS WHEEL CHOCKS

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

P/N 13-04299 .................. $17.95

VECTOR CHOCKS

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

Installation is a snap with the peel-n-place feature, which sticks to asphalt as well as concrete.

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

P/N 13-11694 .................. $39.95
Scott’s Windsocks are manufactured of long-life polyester fabric that is treated to resist the effects of wind and weather. All seams are double stitched with polyester thread for strength. The windsock throat is reinforced and has solid brass grommets for easy attachment and corrosion resistance. Nylon ties are included with each windsock to attach it to the frame. Windsocks are available in high visibility orange, white or alternate orange and white stripes. Fully extended at 20 MPH or 15 Knots.

### Extra Long Life Windsocks
The “Extra Long Life” windsock 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>
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<tr>
<th>Size (in)</th>
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<td>24 x 96</td>
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### Nylon Windsocks
These socks are wind tunnel tested and designed for conditions in which safety and wind direction are of greatest importance. They are constructed of nylon oxford cloth for strength and flat black finish. Furnished with mounting hardware and instructions. Complete Kit.... P/N 13-03747 .... $59.75 Replacement Sock..... P/N 13-03748 .... $14.50

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Throat Diameter</th>
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<td>13-20060</td>
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### 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. These frames are perfect for airport wind cones or runway threshold. They are constructed of nylon oxford cloth and have multiple rows of tough synthetic thread. The throat band is finished with 2 brass grommets and nylon ties are included. Unlike canvas or vinyl, these Socks fly in the slightest breeze.

<table>
<thead>
<tr>
<th>Throat Dia.</th>
<th>Length</th>
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<tr>
<td>8”</td>
<td>5 feet</td>
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<td>24”</td>
<td>8 feet</td>
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<td>$81.75</td>
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### 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.

<table>
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<table>
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<td>15X55</td>
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</table>

### Extra Long Life Windsocks
For home, office, hangar or workshop. The 15” long wind cone of Flame-Orange sailcloth material swivels on 23” high steel shaft. Windsock directional poles are cast aluminum with flat black finish. Furnished with mounting hardware and instructions.

| Complete Kit | P/N 13-03714 | $59.95 |

**WWW.AIRCRAFTSPRUCE.COM**
**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 not become rigid in cold weather, keeping these windsocks extremely responsive in even the slightest of wind. From them 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.

**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 13" and 18" frames. Use 1" female pipe thread for mounting the 24" and 36" frames.

**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 thread for the 13" and 18" frames. Use 1" female pipe thread for mounting the 24" and 36" frames.

**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 surface or they can be installed right onto an existing ¾" 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 ¾" 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 qualitysocks are constructed from U.S. made nylon fabric that is urethane coated and UV protected.

**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 A1C150/5345-27C dated 07/19/85. Furnished complete with windsocks.

**AVIATION UNLIGHTED WINDSOCK FRAMES**

Non-lighted, heavy duty ball-bearing frame, with 1-75 to 300W lamp, extended to 30" double hoop frameworks. (3/8" round metal frameworks) FAA approved sizes per FAA Advisory Circular A1C150/5345-27C dated 07/19/85. Furnished complete with windsocks.

**WINDSOCK FRAMES**

Totally enclosed housing prevents heavy duty ball-bearing from lock-ups, corrosion, and excessive premature wear. Bearings are grease packed, metal shielded. Self contained unit easily attaches with 3/4" standard thread pipe.
Windcones come in different materials. Vinyl, Nylon, or Cotton Duck. The standard color for all windcones is International Orange. Windcone Material: Vinyl - This material is heavy duty and works well in coastal environments. We use vinyl coated polyester that does not delaminate as laminated vinyls can. This material is oxidation resistant.

**Windcones**

Windcones are made of 7 oz. vinyl. All other windcones are delaminating as laminated vinyls can. This material is oxidation resistant in coastal environments. We use vinyl coated polyester that does not delaminate as laminated vinyls can. This material is oxidation resistant.

**Prices Subject to Change Without Notice**

<table>
<thead>
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</table>

**Standard Frames**

Frames are designed to withstand storm conditions. The bases consist of either galvanized steel or cast aluminum (WCF20, WCF24). Large Frames (18” and larger) - These frames are heavy duty frames designed to withstand storm force winds and harsh environmental conditions. Large frames are made of galvanized steel (WCF18) or a combination of steel and cast aluminum (WCF20, WCF24).

**13” Windsock & Frame**

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

P/N 05-05232..........................$79.75

**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 attachment. Includes fastening hardware. 135” mounted length. Frame not included.

P/N 05-05233............................$281.95

**Replacement Windsock for Litghted Frame**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<td>13” x 55” long Sock</td>
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<tr>
<td>13” x 55” long Sock</td>
<td>05-05230</td>
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**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).

13” Eurosock x 55” Length ....P/N 05-05234 ..................................$46.50
18” Eurosock x 71” Length ....P/N 05-05235 ..................................$69.85

**Windsock-It Windsock**

Windsock-It is a small calibrated windsock for accurate wind speed and direction information. The orange windsock measures 6.5” dia. x 27” long. Sock is mounted on a specially designed internal frame, which keeps the mouth open at all times. The windsock provides information in breezes as light as 2 mph, and is fully extended at 15 mph. Included chrome plated steel mast, adjustable in length from 33” to a full 4.5 ft. This windsock is not a toy, but an honest-to-goodness windsock! Ideal for heliports, hangars and private airstrips.

Windsock-It..............................P/N 13-20015 ..........................$59.95

**Windsocks**

Windsocks come in different materials. Vinyl, Nylon, or Cotton Duck. The standard color for all windsocks is International Orange. Windsock Material: Vinyl - This material is heavy duty and works well in coastal environments. We use vinyl coated polyester that does not delaminate as laminated vinyls can. This material is oxidation resistant.

**Prices Subject to Change Without Notice**

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

<table>
<thead>
<tr>
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<th>Part No.</th>
<th>Price</th>
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<td>18” x 71” Sock</td>
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<td>24” x 120” Sock</td>
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<tr>
<td>36” x 120” Sock</td>
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MONTAGUE FOLDING BICYCLES

MONTAGUE CROSSTOWN BIKE

MONTAGUE NAVIGATOR BIKE

MONTAGUE KICK STAND
- We offer a traditional metal kickstand that attaches to the Montague bike like a standard kickstand without interfering with the unique folding feature. Fits all bikes. Models from 2015 or earlier. 2016 Models are equipped with a multi purpose fitted rack to function also as kickstand. $19.99

MONTAGUE FOLDING PEDALS - These pedals reduce the width of the folded bike by 4 inches. While not ideal for high performance riding, they do serve a purpose for those with light space constraints. P/N 13-03745 .......... $34.95

MONTAGUE CARRYING CASE
- A convenient carrying case that fits most Montague folding bikes. P/N 13-08406 .......... $99.95

MONTAGUE BOSTON BIKE

MONTAGUE FOLDING BICYCLES

MONTAGUE CARRYING CASE
- A convenient carrying case that fits most Montague folding bikes. P/N 13-08406 .......... $99.95

MONTAGUE BOSTON BIKE

MONTAGUE FOLDING BICYCLES

MONTAGUE CARRYING CASE
- A convenient carrying case that fits most Montague folding bikes. P/N 13-08406 .......... $99.95

MONTAGUE BOSTON BIKE

MONTAGUE FOLDING BICYCLES

MONTAGUE CARRYING CASE
- A convenient carrying case that fits most Montague folding bikes. P/N 13-08406 .......... $99.95

MONTAGUE BOSTON BIKE

MONTAGUE FOLDING BICYCLES

MONTAGUE CARRYING CASE
- A convenient carrying case that fits most Montague folding bikes. P/N 13-08406 .......... $99.95
Tribred Pon-e: transportation/fitness/joy/ride all in one vehicle. Lightweight high-performance aluminum frame with lithium battery power. Specifications: • Color: green or silver • WT: 38 lbs • 10" air tire brushless • Geared hub motor 250W • Free wheel clutch • Removable 38V - 9Ah Lithium-Ion battery with Panasonic cells • Features key & lock • 2 Modes: ECONO max 12 mph / EXPRESS max 17 mph.

EcoReco M3 Scooter is an eco-friendly, efficient, portable, and smart electric vehicle, designed for your everyday urban use. In the form of a kick scooter, it is the most practical and economical last mile solution on the market. EcoReco M3/M5 can be easily stored under chairs or a desk, and it folds completely in under 10 seconds. Luggage Socket for attaching a variety of bags and baskets. Color: Shadow Black.

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

ESPRESSO
The Espresso is the bike for urban adventures: to the park on a sunny weekend; down the street for a lazy Sunday brunch; or to the market for some fresh produce, tomatoes, and a bottle of wine. For 2010, the Espresso gets a complete makeover. The patented new Dahon Axis stem lets you fold the Espresso with a minimum of effort and Schwalbe Big Apple tires mean that you go faster, in a lot more comfort. The new Espresso is a shot of caffeine to your cycling lifestyle.

MOTORIZED SCOOTER
Operation is easy with the simple push start capability, just push and Go, stop and fold the bars for carry and you can take the Sport with you anywhere. Specifications: • Engine Model: GPL290 • Engine Description: Single Cylinder Two Stroke, Air Cooled • Engine Displacement: 28cc • Engine Power: 2.5 HP • Engine Ignition: Electronic • Engine Cutoff: Handlebar Kill Switch • Carburetion: Walbro • Transmission: Direct Drive • Fuel Gas: & 2 Cycle oil @ 40:1 • Fuel Capacity: 1 Liter • Fuel Economy: 100 mpg • Max Speed 20 mph • Dimensions: L-34” W-13” H-14” • Handlebar: 6061-T6 aircraft aluminum • Frame Aircraft quality: 4130 Chromoly fork • Free Weight 20 lbs • Max Load: 400 lbs • Wheel Type: 6 Solid Go-Active™ Rubber replaceable tire • Rims Mach: 12 reinforced high impact polymer rims • Front Brake: Wheel Caliper • Rear Brake: Compression • Folding Effortless folding feature for easy storage and carrying • Suggested Usage: City / Cruising.

GO-PED LIGHTWEIGHT
Go-Ped (Sport Model) Blue: P/N 13-08380 $728.47
Go-Ped (Sport Model) Red: P/N 13-08381 $728.47

Dahon Accessories

ECO RECO ELECTRIC SCOOTERS
EcoReco M3 scooter is an eco-friendly, efficient, portable, and smart electric vehicle, designed for your everyday urban use. In the form of a kick scooter, it is the most practical and economical last mile solution on the market. EcoReco M3/M5 can be easily stored under chairs or a desk, and it folds completely in under 10 seconds. Luggage Socket for attaching a variety of bags and baskets. Color: Shadow Black.

VELOMINI PLUS WHITE ELECTRIC BIKE
VeloMinites are small, light weight, cute, versatile, convenient, and durable. They fold down to small size and you can take it with you practically everywhere. Each VeloMini Plus includes a TrackR™ tracking system to assist with recovering your VeloMini should it be stolen or misplaced. The VeloMini+ has more power, which means a faster top speed and greater hill climbing capability. The battery, still hidden in the frame, uses the latest 26650 lithium cells. The VeloMini+ has an improved display showing speed, pedal assist, and battery level. All VeloMini+ fold to only 34” L x 2’ 4” x 12” with a 35 lbs weight. P/N 13-20152 $1,295.00

DAHON SPEED P8
The Speed P8 is the perfect for long commutes, weekend exploring, or touring. The Speed P8 shares the same frame as the Speed Pro and combines it with our no compromise Premium component package. The Speed P8’s stiff frame, rigid Radius handlepost, and plush-riding Schwalbe Big Apple tires inspire confidence on even the worst roads. Wheel Size: 20”. Speed: 8. Folded Size: 30 x 77 x 64 cm (11.7” x 30” x 25”). Folding Time: 15 Seconds. Weight: 12.6 kg (27.8 lbs). Max Rider Weight: 105 kg (230 lb). Colors Available: Fire Red, Obsidian, P8 20” Fire Red: P/N 13-00043 $699.00

DAHON SPEED UNO
DAHON MU P8
The Mu P8 is one of Dahon’s most versatile, all-around bikes. It’s wonderfully light, fast enough for long weekend rides, and stylish enough to turn heads everywhere you go. Great performance and a good value. Lighter, stronger, and faster are the goals and the Mu P8 delivers on all three. 20” Cloud White: P/N 13-00789 $799.00

DAHON ACCESSORIES

VELOMINI PLUS WHITE ELECTRIC BIKE
VeloMinites are small, light weight, cute, versatile, convenient, and durable. They fold down to small size and you can take it with you practically everywhere. Each VeloMini Plus includes a TrackR™ tracking system to assist with recovering your VeloMini should it be stolen or misplaced. The VeloMini+ has more power, which means a faster top speed and greater hill climbing capability. The battery, still hidden in the frame, uses the latest 26650 lithium cells. The VeloMini+ has an improved display showing speed, pedal assist, and battery level. All VeloMini+ fold to only 34” L x 2’ 4” x 12” with a 35 lbs weight. P/N 13-20152 $1,295.00

www.aircraftspruce.com
PARA-CUSHION 304 - SEAT

The Para-Cushion 304 Seat measures 12" (30.5 cm) tall by 16" (40.5 cm) wide by 1/2" (1.3 cm) thick throughout the back, and 3" (7.5 cm) thick in the seat cushion, and weighs approximately 16 lbs. (7.5 kg). This unique configuration allows for maximum comfort for the pilot by using the shape of the parachute system to put you in a slightly reclined position. The parachute assembly is designed to be used in airplanes in which headroom is at a minimum and the backrest is at a straight upright angle with the seat bottom. System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Plastic Bag, and Manual. TSO - C23c cat. B.

P/N 13-14779

$2,475.00

PARA-CUSHION 305 - CHAIR

The Para-Cushion 305 Chair measures 42" long (105 cm) by 16" (40 cm) wide by 2.5" (6.5 cm) to 1" (2.5 cm) thick and weighs approximately 16.5 lb. (7.5 kg).

This back mounted container is built to extend from the shoulders of the user to just above the knees. This long design allows the parachute to be packed in a larger area keeping the system as thin as possible. Confor® Foam padding throughout the system allows the user to comfortably sustain flight for many long hours. The parachute assembly is designed to be used in airplanes where your seat is reclined such as the F-86, F-100, F-106, 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 13-15068

$2,130.00

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 Options: 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, comfortable seating area for the pilot. The harness is fully adjustable in the main lift webs (vertical straps), as well as in the lumbar area to ensure proper fit, provide support, and remain comfortable. The parachute assembly is designed to be used with the bucket style seat pan found in most warbirds such as: SN-J, T-6, Harvard, T-34, T-28, P-51, Stearman, Great Lakes, Pitts S 2B, Decathlon, RV-4 and many others. For RV-4 and RV-8 aircraft the seat container 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 13-03441

$2,495.00

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" (60 cm) tall by 16" (40 cm) wide by 3" (7 cm) thick and weighs approximately 16 lbs. (6.5 kg). In many cases, by removing the back cushion of the seat pan, the pilot may place the Acropro in its place. Choose our Standard Harness or the Aerobatic Harness at no additional charge. Acropro comes with: Harness/Container, Mid-Lite Parachute if desired or C-9 (call for price), Ripcord, Lil Grabber Pilot Chute, Carry Bag, and DVD Manual. TSO - C23c cat. B & SAE AS-8015A.

Standard Harness - Harness/Container Only

P/N 13-15068

$1,395.00

Aerobatic Harness - Harness/Container Only

P/N 13-15185

$2,449.00

ACCESORIES

SHEEPSKIN BACK PAD - Sheepskin pads keep you cool in the summer and warm in the winter.

P/N 13-04907

$42.90

CWEELLER RISER RELEASE - For landing in high wind conditions allows the pilot to release the parachute, to prevent dragging. Disadvantages - Heavy and expensive hardware.

P/N 13-04908

$355.00

LUMBAR SUPPORT PADS - A rounded Temporfoam pad that fits in an existing channel. Adjustable to just the right position in the small of your back.

P/N 13-15065

$84.95

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

$149.95

ELT POCKET - This external pocket snaps onto the system and holds the pilot’s ELT system.

P/N 13-15949

$115.95

STATIC LINE - 15’ Static Line including B-12 Snap and RW-3 Ring.

P/N 13-16009

$40.00

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

$115.00

AERODYNAMIC HARNESS - This is an option that can be added to the Para-Cushion 305 Chair at no additional cost. This harness option moves the snaps that normally sit on the seat pan, to the outside of the harness. Allows for maximum mobility in the canopy riggers of an emergency bail-out. In production since 1987 the Mid-Lite has proven time and time again that it is the most rugged and reliable reserve you can own!

Canopy Shape

Conical

Canopy Cloth

30-50 cfm (PIA-C-44378d)

Turn Speed

24

Number of Gores

24

Forward Speed

6.8 mph (10-12 km/h)

Line Length

115’

Sizing Suspension Line

95 lbs. (43 kg)

Suspension Line Strength

490 lbs. Maximum Weight

P/N 13-14782

$1,037.00

www.aircraftspruce.com

Price Subject to Change Without Notice

946

September 2023

946
### NATIONAL PARACHUTES

#### NATIONAL 360 PREMIUM BACK PARACHUTE
Standard design includes a tapered width and teardrop shape that hugs the back and also provides comfortable lower lumbar support. National parachutes are the choice of numerous aerobatics champions and professionals. Designed thin, light weight and with comfort in mind and incorporates a user-adjustable main lift web (hip junction) harness.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
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<td>Q2 = 2 ea B12 Snaps Legs &amp; (TT) Thread Thru Adapter Chest 13-15783</td>
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#### NATIONAL 425 PREMIUM BACK PARACHUTE
Standard design includes a tapered width and teardrop shape that hugs the back and also provides comfortable lower lumbar support. National parachutes are the choice of numerous aerobatics champions and professionals. Designed thin, light weight and with comfort in mind and incorporates a user-adjustable main lift web (hip junction) harness.

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

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</tr>
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</table>

### SOFTIE EMERGENCY PARACHUTES

#### MINI-SOFTIE - Extremely small, lightweight and comfortable backpack parachute system designed for use in today’s restricted cockpit environments, and by persons weighing up to 240 lbs. Choice of Conventional Harness or Aerobatic Harness. Container is 2.25” thick x 13” wide x 22” long. Canopy Type: Steerable Conical. Total weight: 16 lbs.

<table>
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</thead>
<tbody>
<tr>
<td>B2 = 2 ea B12 Snaps Legs &amp; (TT) Thread Thru Adapter Chest 13-03524</td>
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<td>B3 = 3 ea B12 Snaps Legs &amp; Chest 13-03524-1</td>
<td>13-03524-1</td>
<td>$9,203.00</td>
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</tbody>
</table>

#### MICRO-SOFTIE - Designed to fit and stay secure over the shoulder of smaller individuals. Used by persons weighing up to 180 lbs. Choice of the Conventional or Aerobic harness. Container is 2.25” thick x 13” wide x 22” long. Canopy Type: Steerable Conical. Total weight: 14 lbs.

<table>
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<td>$9,203.00</td>
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</table>

### WARBIRD SEAT PACK SOFTIE - Designed to fit into the older style “bucket” seats found in warbird aircraft, and for persons weighing up to 240 lbs. The container is 14” wide 11” fore & aft 6” wide. Canopy Type: Steerable Conical. Total weight: 17 lbs.

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<tr>
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### NATIONAL PARACHUTES 490 PREMIUM SEAT
National’s Seat Pack is especially desirable when the cockpit has more vertical space than horizontal. For added comfort, the seat pad has one inch of “Astronaut Foam” above the parachute container (user accessible/adjustable via Velcro closure).

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</table>

Visit our website for additional options and harness choices.

**Note:** Complete the Part Number with Color (-1) Red, (-2) Black (-3) Royal Blue, (-4) Navy Blue, (-5) Grey, (-6) Sage Green or (-7) Olive Drab. Also complete P/N with “C” for Conventional or “A” for Aerobatic. Exemple: P/N 13-00000-S5A.
Checkmate Checklists

Checkmate is the only checklist that contains virtually all data desired by pilots to fly the airplane while excluding the extraneous information which leads to inefficiency, confusion and even refusal to use. They eliminate the tedious and cluttered 15-page flip-book that pilots quickly become discouraged from using. Checkmate contains the most comprehensive V-speed section in the industry. V-speeds are listed in Knots and MPH. Checkmate not only contains the most comprehensive information which leads to inefficiency, confusion and even refusal to use. They eliminate the tedious and cluttered 15-page flip-book that pilots quickly become discouraged from using. Checkmate contains the most comprehensive V-speed section in the industry. V-speeds are listed in Knots and MPH.

Available for over 300 single and twin engine aircraft. All follow a standard format. Used by some of the best flight schools in the country. Checkmate Standard Checklists is 6.5" x 9" size. Checkmate Compact Checklist 5" x 7" size.

<table>
<thead>
<tr>
<th>Aircraft Type</th>
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<th>Description</th>
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<td>Cessna 402B</td>
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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 for the complete approach or radar vectored to the FAF, to touch-down on the IFR flight. Whether you are cleared for the complete approach or radar vectored to the FAF, Checkmate IFR formats will help keep the flight business lead to smoother, stress-free and safer outcomes. Checkmate IFR will assist you through preflight planning for the complete approach or radar vectored to the FAF, to touch-down on the IFR flight. Whether you are cleared for the complete approach or radar vectored to the FAF, Checkmate IFR formats will help keep the flight business lead to smoother, stress-free and safer outcomes.

Surviving the First 24 Hours Checkmate®

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

<table>
<thead>
<tr>
<th>Aircraft Type</th>
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<td>13-05541</td>
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</table>

Checkbook Checklists

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

<table>
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</table>

FLYWRITE COPPIER WRITING PAD

FLYWrite™ is not another "flight planners pad. 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, AWS, frequencies, flight times, hobbs, times, tach times, airport information, frequency changes, hand-offs, 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, CAP, TAC, RNOS, Jeep, & Ela charts, eliminating the need for that ruler you can never find.

<table>
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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.

<table>
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**CHECKLISTS**

**PROPILOT CHECKLISTS**
Step up to professional quality with ProPilot Checklist! These handsome booklets are fully laminated and wire-bound for durability and long life, and are perfect for VFR and IFR pilots of all skill levels. All PreFlight, Normal, and Emergency procedures are included. IFR checklist items are integrated into phase of flight, and IFR Approach and Departure Briefing sections are also provided. Flight planning is simplified by the inclusion of aircraft-specific performance data (V-speeds, takeoff distance, climb performance, cruise power settings, true airspeed, fuel burn, and landing distance), as well as weight and balance graphs. 6” x 9”.

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More help than just a checklist, PRECIFLIGHT® will actually help pilot along all phases of flight: from preparation to tie-down and through emergencies. It is a brightly colored 18 pages booklet at is logically divided to tie-down and through emergencies. It is a brightly colored 18 pages booklet at is logically divided to

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**QREF CHECKLISTS**
Qref Cards - Topics Covered: PreFlight, Takeoff/Cruise, Landing, Abnormalities and Emergencies, V-speed list.

**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 steps to 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, land-ing 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.

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

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The ProFlight Fixed Azimuth Plotter is a 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 course. Made in USA.

P/N 13-02303 .................. $7.95

**ULTIMATE FIXED PLOTTER** - 13-1/4’’ long. Quick scale reference is provided for both statute and nautical miles. Made in USA.

P/N 13-02304 .................. $7.60

**ULTIMATE MICRO PLOTTER** - 8’’ long. Convenient for flight bag, shirt pocket, or airplane storage. Made in USA.

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**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.

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**ROTATING PLOTTER** - Made from the same material and having the same features as the Fixed Plotter, but with the addition of a non-slip rotating azimuth to ease flight planning.

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The Pilot Pocket Pen Holder is the easy solution to stowing pens, pencils and sunglasses in the cockpit. The compact design and suction cup mounting offer 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.

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P/N 13-08056 .................. $5.75

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APPROACH PLATE BINDER
Made of durable black vinyl with a reinforced spine, it has easy-to-open, 1-1/2” steel rings that accommodate the drill pattern of the approach plates. ASA rings tastefully silver-foiled on the front cover. Choose from either 4-ring NACO or 7-Ring design. P/N 13-01068..............$12.75
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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.
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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 sectional charts, 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.
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Pilot cap featuring comfort headband and classic wings logo. Stylish baseball cap. Black with neatly embroidered white ASA wings. Adjustable headband for maximum comfort. No button to interfere with headset band. Long bill for sun protection. Perfect for cross-country flying, lounging with friends or on the tarmac hangar flying. Wear it proudly!
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P/N 13-04920 .................. $12.95

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

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P/N 13-03555 ................. $7.95

AERO PRODUCTS RESEARCH CR COMPUTERS

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Folded size 8” x 9”. Extends to 16” x 9”. Anodized aluminum. Versatile space-saver lap desk locks in open position; folds in half for drop-in storage in your flight case. Heavy-duty clips hold charts and stick flight plans. Important VFR and IFR information always visible when open. Foam strips on back keep lap desk from slipping…………P/N 13-03517 .................. $9.95

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The Instructors Endorsement Pack contains 14 sheets of labels. Each sheet of labels contains 10 copies of a specific endorsement. Each 2” x 4” endorsement label is identified by title and FAR number, has the exact wording as required by the regulations, and has data-prompted blanks for the students’ name, your name, CFI cert.#, Biennial Flight Review Certification 61.56(a).

Description

INSTRUCTOR ENDORSEMENT PK ENPAK
09-01310 $18.75
PRE-SOLO AERONICAL RNL 61318
09-01311 $18.75
PRE-SOLO FLIGHT TRAINING 61874
09-01312 $18.75
PRE-SOLO TRNG & 90 DAY RENL
09-01313 $18.75
SOLO AT ANOTHER AIRPORT 6156B
09-01314 $18.75
SOLO X-C (6193C) 6193C
09-01315 $18.75
SOLO X-C 61.93 (C1) 6193C
09-01316 $18.75
REPEATED SOLO X-C =50NM 6193B2
09-01317 $18.75
SOLO IN CLASS B,C & D 6194A
09-01318 $18.75
SOLO TOPFROM CLASS B,C OR D
09-01319 $18.75
TAKING KNOWLEDGE TEST 6135A
09-01320 $18.75
PROFICIENCY CHECK 61321
09-01321 $18.75
PASSING FLIGHT TEST 61509
09-01322 $18.75
TAKING SPORT PILOT PRACT 61313
09-01323 $18.75
ASA CX-3 ELECTRONIC FLIGHT COMPUTER

The CX-3 Flight Computer provides a fast, accurate flight computing 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

PN-1 NAVIGATION PLOTTER

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

PN-1 13-21124............................$12.00

PJ-1 ROTATING AZIMUTH

Measures 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.

PN-1 13-21126............................$12.50

BLIND SPOT'S ALL-IN-ONE PILOT'S RULER

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

PN-1 13-11733............................$19.95

AERO PRODUCTS RESEARCH E6-B UNIVERSAL FLIGHT COMPUTERS

The very latest in air navigation computers include not only T/S/D and Dead Reckoning calculations, they now incorporate “Universal” features for worldwide use.

E6-82U - Deluxe, top-of-the-line quality, 5” x 9-5/8”, all aluminum construction. Includes: • “Universal” conversions: feet to meters, pounds to kilograms, liters to US gallons, US gallons to IMP. gallons or fuel weight or oil weight. • Patented micro-set (aligns scales to perfect accuracy). • Flush dials to eliminate parallax; answers are read with absolute accuracy. • Scales with contrasting colors for easy computation. • “Universal” color-coded for quick and easy use. • Heavy gauge anodized aluminum for added rigidity and non-glare surface. • 2-color fully illustrated instruction manual plus supplement on Dead Reckoning, Wind Effect Theory and Calculations Note: To mount the CX-3 flight computer, use the MGF Sport Stratus mount combined with any MGF Sport yoke, suction, glare shield mount. (See Accessories)

PN-1 13-03960............................$13.95

PN-1 13-03966............................$16.50

RADIALMATE COMPASS ROSE

RadialMate™, a 3.5” clear 20 ml 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.

PN-1 13-08799............................$4.50

JEPPESON 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.

PN-1 13-08799............................$4.50

PN-1 13-08660............................$14.49

ASA E6B METAL FLIGHT COMPUTER

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

Standard............................$24.95

Mini...............................$23.95

ASA COLOR E6-B COMPUTER

ASA’s color E6-B is enhanced with color for quick identification of key elements and easier readability. The new color E6-B is based on ASA’s most popular model: slide-rule-style flight computer, the ASA-E6B. It’s identical in size to the venerable favorite, made with the same solid aluminum construction and featuring all the functionality pilots have relied on for decades.

PN-1 13-01088............................$29.50

PN-1 13-01087............................$39.95

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 needle and To/From indicator. VOR-A/A-Glance flash cards will teach you: • The difference between VOR courses and VOR radials • What the VOR does not show you • The best way to think about the course deviation indicator • Inbound vs. outbound course indications • How to instantly know your position relative to the VOR • Tricks for reading interception courses right off the VOR • Pilots need to be able to look at a VOR and read the information off immediately. It’s just like when you first learned how to read. There is a big difference between the ability to sound the words out and the ability to look at a work and just read it. Pilots need to be able to “read” the VOR!

PN-1 13-05773............................$24.95

PN-1 13-02299............................$5.95

CAPTAIN BARRY SCHIFF X-COUNTRY PLANNING LOG

Covers all necessary flight planning “from the ground up” Capt. Barry Schiff comprehensive pre-flight & en route complete “cross-country planning program”, assures safe, error free, cross-country flight planning before and during all flights. Guides you through all stages in your pre-flight planning, organizes the required estimates to determine ground speed, time en route and arrival. Records distances to check points, arrival times, and the related radio frequencies needed.

PN-1 13-02299............................$5.95

PN-1 13-01088............................$29.50

PN-1 13-01087............................$39.95
PLOTTERS - COMPUTERS

VOR TRAINING AID
Learn and practice the principals of VOR and NDB navigation, with ease, prior to flight. Instructors can effectively teach and discuss navigation with clear, realistic, high quality visual aids.
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

APR PLOTTERS
Scales on white background for easy readability set on see-through "clear vision" vinyl. Statute and nautical scales are parallel, making conversion easy. One side for WAC charts, one for Sectional charts. "How-to-Use" instructions printed on plotter. Includes illustrated practice problems.

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<tr>
<th>Description</th>
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<td>13-19913</td>
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<td>13&quot; Plotter WSNP-13 WAC and Sectional Charts (Lexan) Lifetime Guarantee</td>
<td>13-03509</td>
<td>$12.50</td>
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<td>13&quot; Plotter NPR-13 Rotatable Azimuth WAC and Sectional Charts</td>
<td>13-03511</td>
<td>$10.90</td>
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<tr>
<td>13&quot; Plotter WSNPR-13 Lifetime Guarantee Rotatable Azimuth WAC and Sectional Charts (Lexan)</td>
<td>13-03512</td>
<td>$15.00</td>
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<tr>
<td>Universal IFR Plotter UIP-V (Same as Jeppesen PV-5 Jepp/NOS Charts Holding Pattern Entry Vinyl)</td>
<td>13-03514</td>
<td>$8.50</td>
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<td>13-03513</td>
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<td>13&quot; Plotter FAA-170 Military WAC and Sectional Charts</td>
<td>13-03516</td>
<td>$9.95</td>
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INTERNATIONAL NAVIGATION PLOTTERS

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<td>Plotter/Protractor CPP-5 Douglas International Combination Plotter/Protractor</td>
<td>13-03506</td>
<td>$5.95</td>
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<td>13&quot; ICAO Plotter IP-13 Fixed Azimuth, Nautical/Kilometer Scales</td>
<td>13-03507</td>
<td>$12.25</td>
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APR FCL-12 & 24 FLIGHT CHECKLIST HOLDER
Used by private, corporate, and military pilots. Adjustable lighting and viewing angle, color band isolates each item being checked. Mounts for right or left hand use. 84" pachment scroll lets you customize your specific checklists for review in flight. Designed to U.S. Military Pilots specification 5" x 4" x 1-1/2" NSN 1680-00-489-1313
P/N 13-06714 ..................$115.75

APR POCKET NAVIGATION PLOTTER - 8"
Now you can own the easiest and most accurate plotter available for use on all World Aeronautical & Sectional Charts. WSNP-8 Pocket Navigation Plotter is the best in-flight tool for navigating Aeronautical Charts. It has four protractor scales and fourteen nautical, statute, and terminal area scales for Sectional, WAC, and Terminal Charts.
P/N 13-15121 ..................$9.90

PLOTTERS AND SLIDE COMPUTERS

These are specially-designed for easy use. The APR plotter has parallel statute and nautical scales, with one side scales for WAC charts and the other for sectional. Made of clean white heat-resistant hi-flex vinyl. Operating instructions are included. The slide is printed with speed ring lines representing values of one speed unit. Includes formula boxes added to the plate below the azimuth ring.
E6-B4 Aluminum ..................P/N 13-03960 ........ $31.90

E6-B HIGH SPEED SLIDE
Picks up where the ASA-E6B metal flight computer leaves off, providing calculations for the high-speed realm of flight (in the range of 220-700 knots or mph). Pilots simply replace their current slide with this one, which then continues to use the circular computer from traditional E6-8s. The slide also includes a compressibility correction chart, ICAO Standard Atmosphere reference table, a worldwide time conversion table, speed limits for the U.S., and the most frequently used weight and balance formulas; all of the pertinent formulas and information required for high-altitude, high-speed operations. Comes with easy-to-follow instructions.
E6-B High Speed Slide ..............P/N 13-02301 ........ $11.75

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

TRAFFIC PATTERN ORIENTER & SPEED COMPUTER
Graphically displays the headings required for standard or non-standard traffic patterns. Time, speed, distance computations, fuel consumption, true airspeed, mach and true altitude conversions.
P/N 13-01133 ..................$15.95

JEPPSEEN PV-5 IFR ENROUTE PLOTTER
Size 3-3/16" x 8-1/2"  
P/N 13-21718 ..................$9.50

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AERO PRODUCTS RESEARCH PLOTTERS

APR PLOTTERS

PROTRACTOR PLOTTER PCP-202 T/S/D - APR has designed the first combination T/S/D pocket computer with combined rotatable plotter cursors. Align the airplane cursor along any appropriate meridian. PVC plastic discs, 3-3/4" dia. P/N 13-06696 ...................$10.75

TRAFFIC PATTERN ORIENTATOR TTP-203 - The TTP-203 Traffic Pattern Orientator graphically displays all headings for left (standard) and right (non-standard) traffic patterns when the runway heading is aligned with the compass rose. Light signal "acknowledging" instructions are also shown. PVC Plastic discs, 3-3/4" dia. Cursor 4-1/4" P/N 13-06682 ...................$13.95

DENSITY ALTITUDE PERFORMANCE COMPUTER DAP-204 - Shows the aircraft's rate of climb and minimum - required takeoff distance. PVC plastic discs, 3-3/4" dia. Important: Always consult your pilot's operating handbook as their computer does not supplement or replace the manufacturer's performance data. Not applicable to turbocharged aircraft P/N 13-06683 ...................$13.75

T/S/D PROTRACTOR PLOTTER PCA-302 - APR has designed the first combination T/S/D pocket computer combined with rotatable plotter cursor. Align the airplane cursor with the true or magnetic course. Align the arrow cursor along any appropriate meridian. Anodized aluminum discs, 3-3/4" dia. Plastic cursor 4-1/4" P/N 13-06684 ...................$15.95

TRAFFIC PATTERN ORIENTATOR TPA-303 - The TPA-303 Traffic Pattern Orientator graphically displays all headings for left (standard) and right (non-standard) traffic patterns when the runway heading is aligned with the compass rose. Light signals and "acknowledging" instructions are also shown. Anodized aluminum discs, 3-3/4" dia. P/N 13-06687 ...................$16.75

DENSITY ALTITUDE PERFORMANCE COMPUTER DAP-304 - The Density Altitude Performance computer shows the aircraft's rate of climb and minimum - required takeoff distance. Anodized aluminum discs, 3-3/4" dia. Important: Always consult your pilot's operating handbook as their computer does not supplement or replace the manufacturer's performance data. Not applicable to turbocharged aircraft P/N 13-06668 ...................$16.75

DNP-13 - 13" Deluxe Navigation Plotter with nautical and statute scales, sawtooth graduated color-coded sections for Sectional, WAC, and Terminal Charts. PVC plastic 13-5/16" x 4" P/N 13-06697 ...................$10.75

DNP-8 - 8" Deluxe Pocket Navigation Plotter with sawtooth graduated color-coded, nautical, statute, and terminal area scales for Sectional, WAC, and Terminal Charts. PVC plastic 8-1/8" x 2-7/8" P/N 11-07723 ...................$8.95

DNP-13R - 13" Deluxe Plotter with Rotatable Azimuth Compass Rose, nautical & statute sawtooth graduated color-coded scales for Sectional, WAC, and Terminal Charts. PVC plastic 12-5/16" x 4-1/2" P/N 11-07724 ...................$12.95

NP-13 - 13 INCH NAVIGATION PLOTTER - Four precision protractor scales and fourteen nautical and statute scales for Sectional, WAC, and Terminal Charts. Plotting is easy and accurate when done with an APR plotter. Instructions are printed on the plotter. Constructed with durable plastic. Dimension: 13 5/6" x 4" P/N 13-19913 ...................$9.95


HPC-206 - Holding Pattern Computer. Pocket size. Visually displays entry headings from all directions for both standard and non-standard holding patterns. Shows holding speeds and inbound time to fix. Colorful segments for easy learning. "F" correction factors for TAS. Low wind speeds 0 to 270, high winds 100 to 800 kts or miles, compressibility "F" factor scale shows the "F" correction factors for TAS. Gives calibrated airspeed from 200 to 550 knots at pressure altitudes of 10,000 to 50,000 feet. Crosswind grid shows method to calculate crosswind and headwind components. Anodized aluminum, 4-7/8" x 1-11/8" P/N 13-06673 ...................$39.95

E6-B8D - Deluxe student pilot wind Triangle & T/S/D navigation computer. Features the new exclusive windspeed cursor which shows the speed and drift without pencil marks. Color-Coded sawtooth scales. Calculates all necessary flight planning & enroute navigation requirements. Easy to learn and use with the instructions printed on the computer. 4-1/2" x 8-3/4" P/N 13-06675 ...................$20.75

E6-B8D - Large anodized aluminum computer. Calculates all necessary flight planning & enroute navigation requirements. 4-7/8" x 9-5/8" P/N 13-03497 ...................$42.75

LOW & HIGH SPEED SLIDES - Low & High Speed Slide for E6-B9 or E6-B2 models. Low wind speeds 10 to 270, high winds 100 to 800 kts or miles, compressibility "F" factors scale shows the "F" correction factors for TAS. Gives calibrated airspeed from 200 to 550 knots at pressure altitudes of 10,000 to 50,000 feet. Crosswind grid shows method to calculate crosswind and headwind components. 3-7/8" x 1-11/8" P/N 13-06680 ...................$12.50

JNP - Enroute IFR Radio Facility Chart Plotter for NACO and Jeppesen Radio Facility Charts, 12 high visibility scales, displays entry diagrams of standard and non-standard holding pattern, compass rose plotter, km to nm and nm to km conversion scales. 8-3/4" x 3-1/4" P/N 13-06704 ...................$10.85

DJNP - Deluxe Enroute IFR Radio Facility Chart Plotter for NACO and Jeppesen Radio Facility Charts, 12 high visibility scales, displays entry diagrams of standard and non-standard holding pattern, compass rose plotter, km to nm and nm to km conversion scales. Lifetime guarantee, LEXAN® 8-3/4" x 3-1/4" P/N 13-06706 ...................$11.95

APR DFPC-1 POCKET IFR & RNAV FOR JEPPESEN & NACO CHARTS - Has 13 scales for Jeppesen Radio Facility and NACO Charts. Shows a compass rose and a color-coded illustration for parallel, teardrop, and direct entries to standard and non-standard holding patterns. 6" x 3 1/2". Lifetime Guaranteed. P/N 13-06701 ...................$10.95

DELUXE INTERNATIONAL PROTRACTOR & PARALLEL RULE PLOTTER - Designed with high visibility color graphics, a tinted grid, and larger numbers and lines for easier positioning and reading. This plotter eliminates the need to use dividers and parallel rulers. A hole in the center of the instrument is used to conveniently mark and rotate the plotter. WAC/DNC 1-1,000,000 VIS/TERM 1-300 Scales. PVC plastic Dimension: 5" x 5" P/N 13-06707 ...................$8.50

E6-B6DB DELUXE STUDENT PILOT FLIGHT COMPUTER WITH NP-8 PLOTTER - Features the patent pending exclusive Wind Speed Cursor Arm that quickly tells you groundspeed, wind correction angle, and magnetic heading. Eliminates two set-ups and the need to mark dots on the plastic disc. The E6-B6DB calculates all necessary flight planning & enroute navigation requirements. Color-coded sawtooth scales are user-friendly and allow for quick, accurate reading. P/N 13-06676 ...................$19.75

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FLIGHT ACCESSORIES

ERASABLE HIGHLIGHTERS

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

- Yellow: P/N 14-01636 - $2.95
- Orange: P/N 14-01637 - $2.95
- Pink: P/N 14-01638 - $4.40
- Blue: P/N 14-01639 - $2.95

CHINA MARKERS

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

- Blue: P/N 14-01623 - $1.35
- White: P/N 14-01625 - $0.88
- Yellow: P/N 14-01626 - $1.50

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 edge towards destination. Presto… an instant readout of your course!

- Presto: P/N 13-03473 - $18.95

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

ON COURSE AVIATION PRODUCTS CHART MARKS

Customize your charts with these highly visible, self-sticking, removable accents, outlines, & notes. Add a compass rose to any airport or airway intersection, outline VOR information, accent airport or communication information, 20x20nm see through notes accept pencil or pen for your special information. All are easily removable after your flight.


PILOT & COPILOT SEAT HEIGHT PLACEMENT TOOL

This tool is a must have for any pilot and/or Flight School. Here are a few questions to ask yourself that will help explain why a pilot should use this Seat Height Placement Tool before every flight. This cockpit tool gives the pilot the advantage of consistency in their seat height placement in any airplane they fly. Industry wide, landing accidents have been on the rise. A majority of these can be attributed to improper seat height adjustment and sight picture. The Eye Aligner takes the guesswork out of where to adjust your seat, as well as where the proper Eyeline should be.

- P/N 13-19015 - $89.95

TOLD CARDS

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

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<tr>
<th>Description</th>
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<td>Told Cards SE IFR 3x5 Sticky Note Pad 50 Cards</td>
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<tr>
<td>Told Cards IFR Approach 3x3 Sticky Note Pad 50 Cards</td>
<td>13-12016</td>
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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

PILOT POCKET PLUS

The Pilot Pocket PLUS is the answer to all your cockpit organizational needs. Based on the original Pilot Pocket, this expanded model accommodates today’s larger smartphones or Bluetooth GPS units. Additionally, The Pilot Pocket PLUS features two slots for pens and a convenient holder for your sunglasses, keeping everything you need close at hand.

- P/N 13-20980 - $23.95

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Prices Subject to Change Without Notice
### CHART CLIPS - TOOL BAGS

#### PUT-IT SUCTION CLIP

This clip is strong enough to hold an approach plate, chart, or checklist. Attach 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 charts, charts, etc. * Stick on most slick surfaces * UV Resistant
1 Small clip per package ............... P/N 13-06636 .......... $4.80
2 Small clips per package ............... P/N 13-06408 .......... $9.55
1 Large clip per package ............... P/N 13-06409 .......... $6.50

#### WATCH-IT ACCESSORY HOLDER

World’s most versatile holding device*. Lets you mount time pieces and calculators exactly where you want-on the wheel, the yoke tube of clipboard. An ingenious bracket, an adjustable holding loop, and a little Velcro is all it takes. Once positioned, can be mounted & removed repeatedly. Non-reflecting, black materials, weighs less than 1oz. P/N 8135 $9.95

#### YOKE CHART CLIP

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

#### CESSNA YOKE CLIP

Yoke Mount Combo Clip (Large). Fits 1” - 1 1/2” Diameter Shaft. P/N 13-02845 .......... $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 chart clip comes in various models designed to install easily on the yoke of your aircraft. Insures that your navigational charts stay in front of your eyes when you need them most. Handy for VFR charts as well. We’ll be happy to assist you in determining what model 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 .......... $21.75
2” Post Standard Clamp ..................... P/N 8690 .......... $21.75
2” Post Wide Clamp ....................... P/N 8822 .......... $21.75
3” Post Standard Clamp ..................... P/N 8674 .......... $21.95
3” Post Wide Clamp ....................... P/N 8915 .......... $21.75

#### HOLD-IT CHART HOLDER

Simple and effective, this handy stainless steel clip holds charts right where you need them. Elastic strap attaches securely to leg, aircraft yoke, or visor. P/N 13-01759 .......... $9.95

#### YOKE CLIPS

Clip this yoke on your aircraft so it does not interfere with movement of controls. Spring may be adjusted for smaller diameter shafts by pinching with pliers.
Large - Used on 1” tube ..................... P/N 13-04392 .......... $12.75
Small - Used on 3/4” tube .................. P/N 13-04393 .......... $12.75

#### APPROACH PLATE HOLDER

• 10 leaf • Flip-over (not accordion) • Size: 6” x 9” • Vinyl
P/N 13-02772 ......................... $5.95

#### CARRY-IT CORDURA TOTE CASE

This multi-functional tote case is made from black Cordura fabric and features 8 pockets and velcro closures. Holds radios, flashlights, pens, pocket PC, maps, charts & more. P/N 13-01757 ............... $21.50

#### PROFLIGHT BOOSTER SEAT

• 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, gray & olive drab Black.......................... P/N 13-31871 .............. $16.85
Blue.................................. P/N 13-03005 .............. $16.95
Red.................................. P/N 13-31870 .............. $18.85

#### 12 POCKET TRAYTOTE BAG

- This bag has 2 pockets inside and 10 pockets outside with a 11” x 6” multi-compartment tray which slides securely into bottom of bag. Opens wide for easy access to contents and has reinforced web carrying handles. 12” L x 6” W x 12” H
P/N 12-00163 ......................... $25.50

#### 14 POCKET TRAYTOTE BAG

- This bag features 2 pockets inside, 12 pockets outside, with a 13.5” x 6” multi-compartment plastic tray slides securely into bottom of bag. Opens wide for easy access. 16” L x 9” W x 12” H
P/N 12-00164 ......................... $56.95

#### MILITARY STYLE TOOL BAGS

These tool bags are made of heavy-duty military-type tough 18oz./sq.yd. cotton duck with a water repellent mildew-resistant treatment. The mechanics Tool Bags have compartmentalized side pockets with flaps. Hardboard bottoms are completely sewn into each bag and are unexposed. All stitching is of heavy duty nylon thread and the handles are made from heavy military spec. webbing. All inside seams are bound to eliminate raveling of the fabric. Long-tab, self-locking slider. Color: O.D. Green. Available in 2 sizes: O.D. Green Small: 6” x 6” x 12” Bag................. P/N 13-02500 .......... $59.75
O.D. Green Large: 5” x 5” x 16” Bag................. P/N 13-02600 .......... $64.50

#### UNIVERSAL BEVERAGE HOLDER

This Universal Beverage Holder made of billet aluminum installs easily in any thickness dash or instrument panel. Available in two styles, with square or oval face-polished surfaces, its compact design permits fast installation possibilities. Oval Face.......................... P/N 13-03782 .. $139.00

#### AIRMAN CERTIFICATION LEATHER WALLET

Airman Certificate real genuine leather wallet with imprinted FAA symbol. P/N 15-19713 ... $23.95

#### FLIGHT OUTFITTERS PILOT CLIP WALLET

The Flight Outfitters leather wallet is simply designed to carry just what you need. Easily fits into your front pocket so it saves your rear end from uncomfortable seating. Made from soft brown leather to give a professional look. Features 4 card slots and a money clip on the back. The Flight Outfitter logo is debossed into the front leather face and the money clip has Flight Outfitter’s plane logo laser etched on the money clip. .. P/N 15-19008 ... $29.95

#### LICENSE HOLDERS

Black leatherette with clear plastic window to display ownership certificates. P/N 13-07900 also includes eyelet holes for mounting and metal plates to keep corners from fraying.
- 4-7/8” X 6-7/8” ................. P/N 13-07900 .......... $12.95
- 7-1/2” X 8” ....................... P/N 13-17904 .......... $14.75
- 7.5” x 5.5” ......................... P/N 13-17905 .......... $14.95
- 14” x 5.5” ......................... P/N 13-17906 .......... $17.95

#### NELSON AIRCRAFT DOCUMENT CASE

• Made of Cordura • Two compartments
Red................. P/N 13-02934 .................. $19.95

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*Prices Subject to Change Without Notice*
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, & releasable cable ties (holds document protectors securely to kneeboard) optional.
P/N 13-12665 .................. $52.85

TRIFOLD KNEEBOARD
The standard features include: right and left light pockets that double as pen/pencil pockets, 1.5" wide adjustable plastic strap, 3 clear plastic information pocket, right & left document loops, side release buckle, durable wire clip, and padded backing.
The performance package includes: information cards, clear document protectors, flex light with fixed or adjustable beam, and releasable cable ties (holds document protectors securely to kneeboard).
P/N 13-12650 .................. $54.75

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 NEG-G strap.
The performance package includes: information cards, clear document protectors, removable document protectors, & releasable cable ties (holds document protectors securely to kneeboard) optional.
P/N 13-12661 .................. $69.95

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, & releasable cable ties (holds document protectors securely to kneeboard).
P/N 13-12651 .................. $69.95

JEPESEN IFR THREE-RING TRIFOLD
The Jeppesen three ring trifold is great for holding approach charts and features three approach chart pockets, collapsible rings, elastic pen / pencil / penlight holders, and valuable IFR flight information the clip board. Includes free U.S. altitude planning chart. Size: 10" x 20" open.
Kneeboard/Clipboard ......................... $45.95

VFR KNEEBOARD
This kneeboard places information at your fingertips. It holds charts, flight computers and much more. An elastic leg strap holds this unit comfortably in place with a velcro closure. The metal clipboard (also available separately) contains valuable information for your VFR flight needs. An additional strap is included allowing you to use your clip board independently of the kneeboard. You are really getting two products in one.
Kneeboard/Clipboard ......................... $40.95

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

AERO PRODUCTS RESEARCH KNEEBOARDS
5-3/4" X 10" X 2-1/2" Deluxe knee board. Official Air Force and Navy models with quick-release buckles and non-slip foam strips to keep the unit in place. Each model includes 2 heavy-duty paper clamps, pencil holder. This is the ultimate version of MXU-163/C-G. Anodized aluminum. Meets all military specs.
MK-24/C
P/N 13-03521 .................. $63.75

9" x 5-3/8" Contoured base, non-slip kneeboard. 3" positive ext. clip for approach plates, etc. Pencil holder, comfortable leg strap, sturdy, lightweight. Black, non-glare aluminum.
MK-9
P/N 13-03520 .................. $45.95

6" x 8-3/4" VFR kneeboard lists flight plan sequence, tower light signals, time zones, visibility and distance-from-cloud requirements plus much more. Anodized aluminum. Includes flight logs.
0-00
P/N 13-03518 .................. $12.95

6" x 8-3/4" IFR kneeboard lists flight plan sequence, alternate flight planning and distance-from-cloud requirements, IFR required reports, plus much more. Anodized aluminum. Includes flight logs.
0-150
P/N 13-03519 .................. $12.95

VFR/IFR PILOT FLIGHT DESK
The PFD-3 PILOT'S FLIGHT DESK, first designed and introduced by APR Industries, puts essential VFR and IFR information right at your finger tips. The leg is designed for holding approach plates, etc. Pencil holder, comfortable leg strap, sturdy, lightweight. Black, non-glare aluminum.

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 hugs the leg without binding. Velcro fasteners can be adjusted without removing the kneeboard and fits all leg sizes. A pencil/pen holder is designed into the leg for fast note taking. The Kneeboards also feature a 4-3/4" wide metal clip that is easy to lift and strong enough to hold NOS charts and other necessary papers. Paper-protector elbows secure material, yet papers won't rip when pulled out.
VFR Kneeboards ......................... $13.95
IFR Kneeboards ......................... $13.95

NAV-DATA LIGHTED KNEEBOARD
Nav-Data KB-170 Lighted Kneeboard
Rugged molded construction used by the U.S. Military with heavy duty elastic strap and buckle to keep it firmly in place. Also has a contoured bottom and foam strips for extra stability. Rheostat control for perfect lighting. Holder for multiple pens or pencils plus built in pencil sharpener. Upper clip opens 1" wide to hold even large approach plate books. Lower clip allows for more versatility. Compact dimensions: 10" x 5.5". Lightweight: approx 16 ounces. Operates on 3 AA batteries (Not Included) ......................... $59.95

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Price Subject to Change Without Notice
**KNEEBOARDS**

**FORCE PROTECTOR GEAR KNEEBOARD**

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

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<td>ABU Camo</td>
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**TRI-FOLD KNEEBOARD**

For the pilot who has a little more to juggle, the Tri-Fold Kneeboard uses the expertly styled VFR Kneeboard in a 3-panel jacket. The high-quality construction features durable material & double-sewn seams where extra stress takes place. The color is jet black with a logo attractively embroidered in silver on the front. The left panel has ample room for small books, papers and unusually shaped items. The center panel holds the kneeboard under clear plastic. Either side of the center includes a pen/pencil holder and buttonholes that allow the pilot to fold back one or both panels of the kneeboard with the leg-strap. This is ideal when operating a cyclic or stick. The right-hand side includes a pen/pencil holder and buttonholes that allow you place as needed. Cell phone pocket. Plenty of small item storage with Velcro enclosure.

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**MYCLIP KNEEBOARD**

MyClipKneeboard replaces the MyClip Thigh and the MyClipMini. This updated design works with all tablets and phones from 3 inches (7.5cm) to 12 inches (30cm). A great way to use your Phablet or Tablet in the cockpit without worrying about its security. Plastic clips to be adjusted to accommodate different size tablet and phablets. Clips can hold a Galaxy Note in portrait mode all the way up to an full size iPad in the landscape mode. With this kind of versatility upgrading your tablet will not require a change of kneeboard. For iPad versions, tablets and smart phones. P/N 13-16550 .......... $37.75

**MYCLIP MY BIG KNEEBOARD**

The MyBigKneeboard is a tablet and iPhone kneeboard for use with almost any tablet or smartphone with dimensions from 3 inches (7.5 cm) to 12 inches (30 cm) and a thickness (including case) up to 0.95 inches. This is the product to choose if you want to keep your tablet in your everyday case when flying or if you are using an armored case such as the Otterbox® or LifeProof® case. Plastic clips to be adjusted to accommodate different size tablet and phablets. Clips can hold a Galaxy Note in portrait mode all the way up to an full size iPad in the landscape mode. With this kind of versatility upgrading your tablet will not require a change of kneeboard. For all iPad versions, tablets and smart phones in a thick case. P/N 13-16550 .......... $26.85

**EBF 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. EBF CADDY was designed to further improve the pilot experience, by addressing the deficiencies found in many of the current Tablet holder products. Secure physical attachment and head-up, unobstructed panel and outside view are critical features.

**W-4 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 .......... $27.95

**W-4 KNEEBOARD WITH FLIP POCKETS**

Kneeboard is made from highly durable and water resistant nylon. Removable strap for the checklist on the left side and pencil holders, a small pocket for CEPs, and a larger pocket for an E6B on the right side. An added feature is the clear strap that goes across the clipboard to keep pages form flying around. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip. 6 clear pockets that flip up and down. P/N 13-19807 .......... $37.95

**FLIGHT OUTFITTERS**

**IPAD MINI KNEEBOARD**

The Flight Outfitters iPad 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 Mini or Air. The bracket rotates for both portrait and landscape orientation. How about a place to take notes or hold a cell phone? The side of the kneeboard consist of a structured pocket that, when unzipped, creates a rigid platform. This platform is sized perfectly for a small 3” x 5” notepad (included) or cellphone. Lined with soft felt, this platform holds any size of iPhone. This platform is sized perfectly for a small 3” x 5” notepad (included) or cellphone. Lined with soft felt, this platform holds any size of iPhone. P/N 13-18868 .......... $59.95

**FOR MORE INFORMATION CALL 1-800-558-9817 TOLL FREE OR VISIT WWW.AIRCRAFTSPRUCE.COM**

Prices Subject to Change Without Notice
KNEEBOARDS

FLIGHT DESK TRI-FOLD KNEEBOARD

Flight Desk Kneeboard greatly improves cockpit organization of charts & accessories. Unlike some other kneeboards with limited utility, this one 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.

P/N 13-03474 ....................... $16.75

APR KNEEBOARDS

P-IFR • Professional Pilot’s Deluxe IFR Flight Kneeboard. Essential IFR flight information printed on top of kneeboard, large clip opens to 1” for approach book, adjustable strap. Board will manually rotate to best writing angle. Anodized aluminum, 9-1/2” x 6-3/8”

P/N 13-06712 ....................... $13.95

P-VFR • Professional Pilot’s Deluxe VFR Flight Kneeboard. Essential VFR flight information printed on top of kneeboard, large clip opens to 1” for approach book, adjustable strap. Board will manually rotate to best writing angle. Anodized aluminum, 9-1/2” x 6-3/8”

P/N 13-06711 ....................... $13.95

INSTRUMENT MANUAL AND CHARTS BAG

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

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

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 hold all 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.

Standard iPad: P/N 13-16346 ............... $36.95
Mini iPad: P/N 13-16345 ............... $37.50
iPad Air: P/N 13-16347 ............... $39.95
See Website for custom embroidery: P/N 13-16348 ............... $10.00

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

NELSON KNEEBOARDS

MILITARY TRI-FOLD • Size: 19.5”x11.5” (open), 11.5”x7” (closed)

• Holds sm E6-B, stopwatch, pencils

• Supplied w/pad of 50 flight logs

• Aluminum board holds approach plates

Gray: P/N 13-06911 ............... $21.75
Red: P/N 13-02884 ............... $21.00
Olive: P/N 13-02903 ............... $21.00
Replacement Flight Logs: P/N 13-02888 ....................... $5.35

ARMBOARD

The ArmBoard provides agronomical, space saving writing surface as natural to wear as a wrist watch. Regardless of how large or small the cockpit is, the ArmBoard truly frees up much needed space. The product was also tested by CFIs and proved extremely useful in taking notes during flight lessons and jotting down student performance comments for follow up during ground school. A writing pad is included with a flight planner version sold separately along with various flight reference cards to be used on the inside flap of the ArmBoard.

P/N 13-06021 ....................... $31.95

ACCESSORIES

Set of 3 blank pads for the armboard: P/N 13-06025 ....................... $5.95
Set of 3 mixed pads (Blank, Flight Planner & Ruled) for the armboard: P/N 13-06024 ....................... $6.99

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 ....................... $23.95

Large Dimensions: 7” x 9 ½” when closed, 20” x 9 ½” when open

P/N 13-19811 ....................... $27.95

LARGE TRIFOLD KNEEBOARD

Kneeboard is made from highly durable and water resistant nylon. One pocket on the front (when closed), two pockets on the left, two pencil holders, and a plastic pocket on the right. An elastic band to hold a flight computer and a plastic clipboard in the center. When closed, the kneeboard is held together with velcro fasteners. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip. Dimensions: 7” x 9 ½” when closed, 20” x 9 ½” when open.

P/N 13-19812 ....................... $32.95

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Prices Subject to Change Without Notice
IPAD 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. Change between portrait & landscape effortlessly. Made of high-quality Aluminum & professional grade webbing.

For full size iPads. Works with slim cases 1/2” or less  
P/N 11-10398 .................. $47.95

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

APPSTRAP IPAD GEL CASE 2/3
The original AppStrap now with a Gel case. TPU Gel Case. Fits the iPad2 & iPad3. Instantly share, stow or reposiion.

P/N 13-12952 .................. $49.95

APPSTRAP FOR IPAD AIR
This clip is approximately .75 inches thick. The original AppStrap architecture 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 Till 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: iPad1-4, iPad mini, Fire 8.5”, Galaxy 10.x, Nexus. Cases: Otterbox Defender, Gumdrop Droptech, Griffin Survivor. Larger clip accommodates most heavy-duty cases. Fits cases 3/4” thick or less

P/N 13-14753 .................. $47.85

G-FORCE MOUNT FOR APPLE IPAD
The G-Force GF260 iPad Mount is everything you need to re-take control of your cockpit and restore confidence to your passengers. Your passengers? You bet! What are they thinking while you’re fiddling with that thing in your lap. The G-Force GF260 iPad Mount comes complete with a custom-designed cradle, tailored to your iPad-1 or iPad-2, secured to the remarkable G-Force GF2 Twin base.

P/N 11-10741 .................. $66.75

IPAD DOUBLE SUCTION CUP MOUNT
The Fat Gecko iPad Mount uses industrial grade locking suction to secure your iPad to any smooth surface. Works well with slim cases 1/2” or less and other smooth surfaces. Adjustable ball head rotation and extension. Hands free viewing & operation. Holds securely, even in turbulence.

iPad 1 Mini Mount (1 suction cup) .................. P/N 11-10017 ........... $53.75
iPad 2 Mini Mount (1 suction cup) .................. P/N 11-10021 ........... $29.95

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 12V/24V charger. We supply a premium charger which charges iPads, iPhones, iPods, etc. even during heavy use.

iPad 1 Kit .................. P/N 11-10452 ........ $222.40
iPad 2 Kit .................. P/N 11-10453 ........ $215.70

ASAP IPAD MINI KNEEBOARD
A multitasking kneeboard, binder and stylish cover that is functional, durable, and stylish. The elastic leg strap secures the binder-like case to your leg while in flight and is easily removable for everyday use. The cover folds into a flap to serve as a horizontal desktop stand. Beautiful black leatherette with embossed wings; fits iPad mini, and iPad mini with Retina display. Dimensions: 8-5/16” x 5-7/8” closed, 9-11/16” x 12-1/4” open.  
P/N 13-18051 .................. $42.95

ASAP IPAD AIR KNEEBOARD
Made from eco-friendly leather and features a wide hook and loop strap to hold the kneeboard in place during flight. Great for use both in the cockpit and out, the built-in adjustable easel folds to position the iPad Air at a convenient tilted viewing angle; alternatively, it can be laid flat. Dimensions: W 7” (closed) x H 10” x D 1”; W 14-1/2” (opened).

P/N 13-18052 .................. $54.75

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 .................. $98.50

POWER IBOX FOR IPAD2
Power iBox fits like a second skin for the iPad2 all the while providing protection and power without adding bulk. Equipped with a 8,000mAh lithium polymer battery, the Power iBox packs enough charge to double iPad2’s battery life. Its low profile casing provides durable protection against drops or mishaps while its silver finish and stylish design adds personality to the iPad2. iPad2 Not Included.

P/N 13-11684 .................. $129.99

HAND-E-HOLDER™
The Hand-e-holder™ allows you to hold and view your iPad™/tablet device comfortably in your hand, while providing a 360 degree rotation. The Hand-e-holder™ is the key component to using all the other accessories. The Hand-e-holder™ comes with the portable Mini Stand. The Mini Stand is clear acrylic and utilizes the Hand-e-holder™ strap and hand plate to give you 6 viewing positions. The Mini Stand still allows for the Hand-e-holder™ to rotate 360 degrees.

Hand-E-Holder .................. P/N 13-11553 ............... $37.50

Accessories
Hand-E-Holder Rectangle Stand ............... P/N 13-11551 ............... $45.99
Hand-E-Holder Leg Strap kit ................. P/N 13-11548 ............... $49.75
Hand-E-Holder Adapter Plate ................. P/N 13-11549 ............... $19.99

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Prices Subject to Change Without Notice
IPAD KNEEBOARDS – IPAD HOLDERS

THE APPSTRAP FOR IPAD MINI
The original AppStrap 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 repositionNote: 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 ............. $38.95

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 13-12954 .................. $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 13-12563 ........ $29.95

APPSTRAP FOR THE IPAD MINI 4
The new 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

AIRGIZMO IPAD 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 cut down glare. Designed to work with both the iPad and the iPad2.
P/N 13-11218 ............... $73.95

W-4 IPAD MINI KNEEBOARD
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 at each corner to hold your mini iPad firmly in place. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.
P/N 13-19808 .......................... $37.95

W-4 IPAD MINI KNEEBOARD
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 at each corner to hold your mini iPad firmly in place. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip.
P/N 13-19809 .......................... $37.95

GENESIS X IPAD ROTATING KNEEBOARD / CASE
Made to fit all generations of iPads and port locations. Main frame is made of tough ABS and the corners made of Polyurethane. The frame is contoured around the rear camera and the front camera is completely unobstructed to allow access for Facetime TM, photos or video. Size: 10” x 7.6” x 1”.
P/N 13-12391 ............ $33.50

MOTM MOBILE WRIST MOUNT
MOTM™ works with any hand held unit: phone, music players, medical, GPS, and other mobile device units. MOTM™ is the only Wrist Mounting System (Patent Pending) that lets you integrate your mobile device with your active “on the move” lifestyle. MOTM™ securely attaches your mobile device to your wrist for quick and easy access at your finger tips. Whether driving, walking, working, traveling, cycling, hiking, or listening to your favorite music, the everyday uses of your MOTM™ are endless. With its fully rotational, non-magnetic features the MOTM™ makes it much easier, and safer, to interact with the sports, fitness and navigation Apps on your device. The innovative MOTM™ Mounting System allows you to mount and remove your mobile device instantly. The MOTM™ Mounting Adapter attaches to your mobile device so it is always securely attached – without the need for lanyards, straps, or non-user friendly plastic sleeves or pouches. You can also use the MOTM™ Mounting Adapter to attach your device to the outside of your belt, pocket, backpack or purse for easy, immediate access. With MOTM™ you will never have to dig in your purse, pocket, or backpack looking for your mobile device again! Once you try it you will wonder how you ever got by without it! Made In USA.

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Prices Subject to Change Without Notice
MFG IPAD MINI 4 ULTRA-THIN IPAD PANEL MOUNT

The UltraThin iPad Panel Mount is a lightweight aircraft grade aluminum mounting system to easily dock and seamlessly integrate your Apple iPad into your aircraft instrument panel - giving it an elegant, professional appearance in an easy to view position! Once installed, the UltraThin iPad Panel Mount allows your iPad to be mounted in seconds, and fully connected to power and audio with built-in cable ports. Removal is just as easy - just slide the face plate off and remove the iPad. iPad can be mounted in portrait or landscape mode.

P/N 13-19797 .......$199.00

MFG IPAD AIR 2 / PRO 9.7 ULTRA-THIN IPAD PANEL MOUNT

The UltraThin iPad Panel Mount is a lightweight aircraft grade aluminum mounting system to easily dock and seamlessly integrate your Apple iPad into your aircraft instrument panel - giving it an elegant, professional appearance in an easy to view position! Once installed, the UltraThin iPad Panel Mount allows your iPad to be mounted in seconds, and fully connected to power and audio with built-in cable ports. Removal is just as easy - just slide the face plate off and remove the iPad. iPad can be mounted in portrait or landscape mode.

P/N 13-19795 .......$199.00

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. The base of TORCHGRIP® securely attaches directly to the back of your tablet or case (reference “Specifications” for incompatible surfaces) using pre-mounted 3M® VHB™ adhesive which can be removed later to transfer TORCHGRIP® to a new device. The handle detaches by pushing a release button to slide it out of its mounting slots for easy stow and go.

Black/Black...........P/N 13-19321 ............$59.95
White/White.........P/N 13-19322 ............$59.95

ASA IPAD PORTFOLIO KNEEBOARD

The iPad Portfolio Kneepad is the ideal stylish multitasking kneeboard, binder, and versatile cover. It is functional and durable and protects your iPad in flight and on the ground making it your favorite cockpit companion. Fits the iPad, iPad 2, and New iPad (iPad 3).

The inside sleeve holds your iPad securely on the right side with full access to iPad controls and button. The left side has pockets 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 ............$48.95
Replacement Strap .......................P/N 13-19794 ............$4.35

ASA IPAD MINI KNEEBOARD

Versatile kneepad portfolio for your iPad mini that’s functional both inside the cockpit and out. Fits iPad mini and iPad mini with Retina display. A multitasking kneepad, binder and versatile cover that is functional, durable, and stylish.

Fits the iPad, iPad 2, and New iPad (iPad 3).

Standard...............P/N 13-18469 ........$41.95
With holding clip .........P/N 13-18051 ......$42.95
Replacement Strap ........P/N 13-19794 ......$4.35

ASA IPAD KNEEBOARD WITH COVER

The iPad Kneeboard is a versatile case and kneepad 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 inflight 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 "wedge" 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 13-11337 ............$48.95

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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. The optional RAM adapter and clip onto your RAM mount without changing mounting cases!
P/N 13-12765 ............. $59.95

Executive iPad Mini Kneeboard Kit
This is the premium iPad Mini kneeboard for the executive aviator on the go. Take it with you on land or in the air. This innovative, 3-in-1 iPad mount can be used as a standalone, or be clipped onto a kneeboard band to be used as a kneeboard. Use the optional RAM adapter and clip onto your RAM mount without changing mounting cases!
P/N 13-12766 ............. $59.95

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

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

Executive iPad Kneeboard Kit Accessories
Includes strap and Ram adapter.
P/N 13-12776 ............. $18.95

Executive iPad Mini Kneeboard Kit Accessories
Includes strap and Ram adapter.
P/N 13-12777 ............. $18.95

Executive iPad Case Accessories
Includes strap and Ram adapter.
P/N 13-12778 ............. $18.95

Mgf Universal Flex Clip Kit
This is the first and only mount that you can secure anywhere you wish with four screws of an AMPs pattern or with semi-permanent VHB adhesive. Since the Flex Clip uses Flex Arms, it is infinitely adjustable so pilots are able to mount their device in the exact position they wish that was thought not possible before. Simply take the metal base and secure it in the desired location with screws or adhesive. Then take the Flex Arm with the clip base and slide it into the base and lock it down by tightening the knob.
P/N 13-21196 ............. $223.95

Mgf Sport Mount Amps Tilt & Swivel Slide
Note: Mount only, does not include required case. See Accessories for compatible options. The Sport Mount - AMPs Tilt & Swivel Slide is a fixed base for attaching your iPad/EFB to the aircraft utilizing the industry standard AMPs hole pattern or the optional Petal Base with 3M VHB tape. The mount provides maximum stability and reliability. The slide function of this mount allows the pilot(s) to slide the iPad/EFB AFT when on the ground providing easy access to the egress window. Once in the air the pilot can then slide the iPad/EFB FWD to an optimal viewing angle.
P/N 13-20736 ............. $169.00

Mgf Power Bank Portable Charger
This MGF 12000mAh Ultra-slim Power Bank is designed with two Smart USB output ports will quickly and effectively help to solve the low power problem for your digital device while traveling out. With high capacity, in such a compact size, it is your optimal choice. P/N 13-20661 ............. $55.75

Mgf Smartcharger Wall Charger
With SMART Charger, the magic is all in the details. It has dual USB-A ports to charge two devices at once. SMART IC Technology to guarantee your devices are charging at their maximum speed, and sophisticated protection measures to ensure safety for you and your device. SMART Charger’s small and compact design with foldable pins makes it pocket-sized for travel and perfect for those tricky to reach power sockets. SMART Charger’s two universal USB-A ports can charge up to two devices at once, including Apple mobile devices, smartphones and tablets. Using Smart IC Technology, it auto-detects your device’s output so it’s always charging at maximum speed (3.1A max, up to 2.4A per port).
P/N 13-20662 ............. $29.99

Mgf Armorglas Screen Protectors
Armorglas is made of premium, ultra-thin tempered glass material. It is designed to preserve the feel and clarity of the standard screen on your device while adding a substantial level of protection. Choose between two styles: Anti-Glare: a matte finish subdues and removes the mirror effect of the traditional glass screen. Crystal Clear: high transparency, clear glass.

Model | Anti-Glare No. | Price | Crystal No. | Price
--- | --- | --- | --- | ---
iPad Mini | 13-16362 | $49.99 | 13-16488 | $49.99
iPad Mini 4 | 13-16743 | $49.99 | 13-16744 | $49.99
iPad Air | 13-16363 | $49.99 | 13-16487 | $49.99
iPad 2/3/4 | 13-16364 | $49.99 | 13-16486 | $49.99
iPad Pro | 13-19554 | $59.99 | 13-19587 | $59.99
iPad Pro 10.5 | 13-20668 | $49.99 | 13-16385 | $49.99
iPhone 5 | 13-19551 | $24.99 | --- | ---
iPhone 6 | 13-19552 | $24.99 | 13-19586 | $24.99
iPhone SE | 13-19552 | $24.99 | --- | ---

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MGF PRODUCTS

MGF IPAD MINI / AIR SPORT KNEEBOARD

The iPad Kneeboard Sport™ is the perfect aviation kneeboard, mount and everyday case for the iPad Air. 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 tight yoke clearance or when mounting is desired. NOTE: This is the iPad Kneeboard only. Mounts sold separately. Compatible iPad Aviation Mounts: The iPad Kneeboard Sport™ is designed to mate using a quick-connect Sport™ Adapter wmosounting system and an iPad Sport™ Mount. Mounting options include a iPad yoke mount, panel/glare shield, or suction cup mounting system offering flexibility in its use in different aircraft and are sold separately. For more information, go to the Mounts category.

Mini Sport……………./P/N 13-16366……………….$89.00
Air Sport……………./P/N 13-16368……………….$129.00

IPAD 2/3 KNEEBOARD SPORT

The iPad Kneeboard Sport 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. In black, soft to the touch 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 tight yoke clearance. Features: • The iPad Kneeboard Sport is made of black, soft-to-the-touch polycarbonate and is strong and lightweight. It is a form fitted case that holds the iPad securely in place.

The cut-out design provides access to all of the iPad's ports, buttons and controls. The Sport is compatible with Apple’s Smart Cover. • There are two aluminum rails on the underside of the case that frame your leg and with the wide elasticized Velcro strap, allows the case to be held securely and comfortably to your leg. There are four rubber pads on the rails that allow the case to sit on a plane seat or table securely as well. • It is designed to be thin with a removable cover so as to be clear of the yoke, cyclic or control stick. It has a sleek look when used outside of the plane. The removable knee strap can be left in the plane leaving you with a beautiful sleek case for every day use…………./P/N 13-11310……………….$99.00

MGF 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 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 tight yoke clearance when mounting is desired. NOTE: This is the iPad Kneeboard only. Mounts sold separately…………./P/N 13-18845……………….$99.00

MGF KNEEBOARD STRAP

A Strap made to go with MGF kneebords 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 IPAD PRO 12.9 / 11-13 INCH TABLET KNEEBOARD FOLIO C

The iPad Pro Universal Kneeboard Folio™ C (including clipboard) is the perfect high quality leather, rotating aviation kneeboard, lapboard and everyday case for your iPad Pro, and all other 10-13" 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 13-19535…………………………….$129.95

MGF IPAD MINI UNIVERSAL 7-8 INCH TABLET KNEEBOARD FOLIO C

The iPad Mini Universal Kneeboard Folio™ C (including clipboard) is the perfect high quality leather, rotating aviation kneeboard, lapboard and everyday case for your iPad Mini 1/2/3/4, and all other 7-8" tablets. Now you can bring any 7-8" iPad/Tablet with you into the cockpit of any airplane, train, car or truck where 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 13-19536…………………………….$129.00

MGF UNIVERSAL SMARTPHONE KNEEBOARD FOLIO C

The Universal Smartphone Kneeboard Folio™ C (including clipboard) is the perfect high quality leather, rotating aviation kneeboard, lapboard and everyday case for your iPhone 6, iPhone 6 Plus, and all other large smartphones. You can bring any large smartphone 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 smartphone is held by four adjustable clips that are attached to a rotating cradle. All of the ports and controls remain accessible so the smartphone can be charged, synced and controlled when it is in its case.

P/N 13-19536…………………………….$129.00

MGF 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. Nylon Sleeve: 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

MGF FOLDKEY - BLUETOOTH MINI KEYBOARD

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

/P/N 13-19561…………………………….$49.99

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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 ................................................. $99.00

MGF FLIGHT BAG PLC PRO

The Flight Bag PLC™ Pro is for the pilot wanting to move from a conventional flight bag to one for the “Paperless” cockpit. It has a specially designed, airport check-point friendly protective pouch to hold an iPad, laptop computer or many other electronic flight bag devices. All of the compartments are easy to see into, making it simple to find what you are looking for. There is room for everything a pilot needs to take with them in-flight. The Flight Bag PLC™ Pro bag is designed by pilots for pilots to be the ultimate flight bag for all aviators. This bag gives you the style, storage, organization, compact size and functionality like never offered before.

P/N 13-1194 .......................................................... $199.00

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 hand held radio securely. Mesh Pockets: Interior pockets are made out of mesh to easily locate and access your gear. Water Resistance: Exterior of the bag is made of sail cloth making it water resistant.

P/N 13-18712 ...................................................... $139.00

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 13-1194 .......................................................... $30.00

MGF LUGGAGE CART

The Luggage Cart is the perfect accessory for those that want to add wheels to any flight bag or other luggage that doesn't already have wheels. The Luggage Cart is easily detachable from the flight bag, and folds to a compact shape for quick storage. Two strong elastic cords with plastic hooks can hold multiple bags steady for easy travel. Both the Flight Bag PLC™ Pro and the Flight Bag PLC™ Duffel, not included with the Luggage Cart, have a pass through compartment on the back of the bag which allows the Flight Bag to be secured to the cart without the need to use the included straps.

P/N 13-19548 .......................................................... $35.00

MGF PEN HOLDER

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

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

MGF ARMORWIPES

Use ARMORWIPES to remove bacteria, smudges, dust, and other dirt from Avionics, GPS, Tablets, Laptops, Phones, Glasses, and more. Leaves screen streak free and dust free without damaging the surface. For pilots who fly airplanes that other pilots have flown before use ArmorWipes to wipe down the flight deck to prevent spreading of germs and other bacteria. Reduce the chance of getting sick. Product comes in a box of 25 individually wrapped wipes.

P/N 13-19555 .......................................................... $5.00

MGF IPAD CHECKLIST

The MGF iPad Checklist helps pilots ensure that their iPad is ready for flight. The Checklist is on the back of a luggage tag making the information very accessible. The MGF iPad Checklist contains important information organized in five categories: Before Flight (5+ hours) • Pre-Flight • In-Flight • Post-Flight • And iPad In-Flight Settings • A unique tag lets you easily identify your bag and reduces the chances of someone else taking it • Split design allows personal information to be hidden from sight • Flexible steel cable attachment.

P/N 13-19548 .......................................................... $9.00

MGF IPAD AIR 1-2 / PRO 9.7 SPORT CASE

The iPad Kneeboard Sport™ is the perfect avia-
tion 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 tight yoke clearance or when mounting is desired. NOTE: This is the iPad Kneeboard only. Mounts sold separately.

P/N 13-19539 .......................................................... $99.00

MGF HEADSET BAG

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

P/N 13-132407 .......................................................... $14.99

MGF SCREEN CLEANING KIT

This Screen Cleaner Kit is a special glass wax used to clean and protect the screen of your iPad. It can also be used on other glass surfaces such as eye and sun glasses, computer monitors, and aircraft avionics. It includes a microfiber cloth and a special glass wax formulated to remove fingerprints and leave a layer of protection from dust. Kit Includes: Glass Wax, and Microfiber Cloth.

P/N 13-10427 .......................................................... $9.99
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 mounting 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 ............ $169.00

MGF SPORT™ MOUNT FLEX COMPACT SUCTION CUP
The Sport Mount - Compact Suction Cup is the most versatile mounting solution for pilots that would like to install an device on almost any flat, smooth surface. The high strength suction cup twist and locks to provide a secure hold to the windshield or metal panel. The mount is portable and can easily fit in your flight bag or can be positioned and left on-board. Perfect for owners and renters alike. (NOTE: You must have a device holder to use this mount)
P/N 13-19510 ............. $119.00

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 mounting extending to 10.5 inches. Portable and can easily fit in your flight bag or can be positioned and left on-board. Perfect for owners and renters alike. (NOTE: You must have a Sport Case/Cradle to use this mount.)
P/N 13-19511 .......... $169.00

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 Holder to use this mount.
P/N 13-19514 ............ $119.00

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 13-19515 ............. $139.75

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 ............. $139.00

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 ............. $139.00

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MGF PRODUCTS

MGF SPORT™ MOUNT FLEX STUB
The iPad Mount - Flex Stub 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 stub serves as a holding point for any hole in the panel for easy mounting. NOTE: You must have a Device Holder to use this mount.
P/N 13-19516 ............. $121.85

MGF SPORT™ MOUNT FLEX RAIL
" 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 13-19507 ............ $109.00

MGF SPORT™ UNIVERSAL CRADLE XL
The Sport™ Universal Cradle XL (10"-13" Tablets) 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. Compatible with many tablets from 10 inches to 13 inches.
P/N 13-19521 .......... $129.00

MGF SPORT™ PHONE CRADLE
Phone Cradle is designed to work with almost any smartphone 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” | Maximum width = 3 15/16”).
P/N 13-19524 .......... $39.00

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 .......... $39.00

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® 796, 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 .......... $39.00

MGF SPORT™ CAMERA ADAPTER
The Sport - Puck Adapter is designed to work with almost any digital camera or 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 .......... $25.00

MGF SPORT™ MOUNT CLIP ADHESIVE PETAL BASE
The Sport™ Mount Flex Clip Adhesive Petal Base - If you want to use a suction cup mount but do not have a smooth surface that the suction cup can adhere to, order this Adhesive Petal Base for the Sport Mount - Flex Clip. This aluminum Plate is held down using a “peel and stick” double sided permanent adhesive disk - 3M VHB™ (very high bond) tape. This allows you to mount the iPad or any other device to the window or any other non-porous surface in the cockpit. No need to drill holes or worry about uneven surfaces.
P/N 13-19529 .......... $24.00

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**MGF PRODUCTS**

**MGF FLEX CLIP EXTRA BASE**
A 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.

*P/N 13-19528 ............ $24.00*

**MGF SPORT™ MOUNT GULFSTREAM**
The Sport™ Mount Gulfstream is for pilots who want to mount their iPad/Tablet on any Gulfstream jet. It can be positioned up and down approximately 2 inches. Fits Chart Holders up to 4” wide.

*P/N 13-19532 ............ $169.00*

**MGF SPORT™ MOUNT BOEING**
The Sport™ Mount Boeing is for pilots who want to mount their iPad/Tablet on the checklist plate found on the yoke of most Boeing jets including the 737 and 757. This mount comes with a Sport™ Adapter – Generation 2 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. Weighing only 8.2 ounces the Universal Cradle is incredibly light-weight.

*P/N 13-19522 ............ $30.00*

**MGF SPORT™ MOUNT CHART HOLDER**
The Sport™ Mount Chart Holder is for pilots who want to mount a tablet or iPad to the chart holder found on the yoke of many jets - including Lear and Beechcraft. 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 and can be positioned up and down approximately 2 inches. Fits Chart Holders up to 4” wide.

*P/N 13-19531 ............ $169.00*

**MGF SPORT™ MOUNT UNIVERSAL FLAT SURFACE**
The Sport™ Mount Universal is for pilots who want to mount any size iPad/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. All together, this system gives you the ultimate flexibility while keeping space used to a minimum. NOTE: You must have a Device Holder to use this mount.

*P/N 13-19534 ............ $89.00*

**MGF SPORT™ MOUNT AMPS SWIVEL**
The Sport™ Mount AMPS Swivel is for pilots who want to mount any size iPad/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. All together, this system gives you the ultimate flexibility while keeping space used to a minimum. NOTE: You must have a Device Holder to use this mount.

*P/N 13-19535 ............ $129.00*

**MGF SPORT™ UNIVERSAL SHORT CRADLE CLIPS**
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. Weighing only 8.2 ounces the Universal Cradle is incredibly light-weight. No matter how you use it, the Sport Cradle meets the demands of pilots operating in extreme motion. Compatible with any tablet from 7 inches to 11 inches. Compatible with many protective cases.

*P/N 13-19523 ............ $20.00*

**MGF SPORT™ UNIVERSAL LONG CRADLE CLIPS**
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. Weighing only 8.2 ounces the Universal Cradle is incredibly light-weight.

*P/N 13-19522 ............ $30.00*

**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 ............ $119.00*

**MGF SPORT MOUNT - FLEX SUCTION CUP MOUNT FOR IPAD**
The Sport Mount - Flex Suction is for pilots who want to mount their iPad Sport, iPad Kneeboard Sport™ or Nexus 7 Sport case off a glass windshield, side window or other smooth surface. This 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 ............ $119.00*

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

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

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

*P/N 13-15538 ............ $29.99*

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

*P/N 13-18887 ............ $35.00*
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!

**Description**
- P/N 13-18917 $99.00

**GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPOD PRO 9.7 INCHES**

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

**Description**
- P/N 13-18921 $199.75

**GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPOD MINI**

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

**Description**
- P/N 13-18918 $149.75

**GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPOD AIR PRO 12.9 INCHES**

The iFDR Panel Mount for Apple iPad Air Pro (1 & 2) and iPad Pro 12.9-in is a flush mounting system to easily dock and seamlessly integrate your existing iPad into your aircraft instrument panel — giving it a clean, professional appearance in an easy to view position! Once installed, the iFDR mount allows your iPad to be docked in seconds, fully connected to power and audio with built-in cable ports. Removal is just as easy — just slide, push, and remove!

**Description**
- P/N 13-18922 $279.95

**GUARDIAN LIGHTING CABLES**

**Description**
- Apple MFI Certified Lighting Cable For IFDR Panel Mounts - 4 wire 3 Feet 13-18963 $26.50
- Apple MFI Cert. Lighting Cable -3 13-18964 $26.50
- Apple MFI Cert. Lighting Cable-10 USB Term 13-18966 $26.50
- 3.5mm Audio Cable 3 Male Jack 13-18968 $26.50
- Braided Leather Apple Lightning USB Charging / Sync Cable For iPad / iPhone - MFI Certified 11-14111 $22.75

**N-AUT KNEEBOARD KIT**

Kneekboard rotates 360° and mounts to your leg with a universal adjustable strap. One size fits all elastic Velcro strap. Mounting hardware included. Work with both Mini and Air versions. *Active Cooling Mount not included.*

**Description**
- P/N 13-19504 $38.95

Prices Subject To Change Without Notice

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FLYBOYS GEAR FOR PILOTS

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

Air .................P/N 13-19505 ............  $37.95
Mini ..................P/N 13-19506 ............  $34.50

**X-NAUT BATTERY POUCH**
Battery pouch is used to hold USB external battery packs to power either your iPad™, Active Cooling Mount or other devices. Adjustable Velcro closure strap. Fits commonly sized USB external battery packs. Velcro strap on back of battery pouch attaches to knee board strap for convenient mounting. *USB external battery pack and Active Cooling Mount not included.*

P/N 13-19507 .......... $14.95

**X-NAUT MGF AMP ADAPTER - iPAD MINI VERSION**
Adapter for the Active Cooling Mount Mini with a pattern to fit MGF® mounts. Works ONLY with iPad mini versions. You must also purchase the MGF Puck Adapter for this adapter to work with your MGF mount. *Battery pouch and Active Cooling Mount not included.*

P/N 13-19508 ..........  $38.95

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

Black FB1020 ....20.00 P/N-13-05566 .......  $27.95

**FLYBOYS MISSION PUBS - BAG**
Fits everything you will ever need for your mission plus some! Three main compartments comprise this model. Two large compartments and the third is divided in the middle. No external pockets on this model, however the internal capacity is awesome. 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 6 1/2” wide!

Black FB1020 ....20.00 P/N-13-05566 .......  $27.95

**FLY BOYS 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. Pocket on one side for a water bottle or sunglass case. Slots on the opposite side for 2 pens or pencils. The most popular choice of most fighter and trainer pilots. Measures 9” x 15” x 1” empty. Fully loaded it will expand out to 8 1/2” wide!

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 (FB1060). Eyelets also correspond to JEPPESEN approach plates and chart protectors!* *Price subject to change without notice.*

9.5” Unfolded: 10” x 8.5” x 1” Writing Surface Area: 8” x 5”
Blue ..................P/N 13-05658 ..........  $39.95
Black ..................P/N 13-05659 ..........  $39.95
Green ..................P/N 13-05670 ..........  $39.95

**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: 8” x 5”........ P/N 13-05627 ...........  $0.70
Bulk back (25 Pk.) w/Covers P/N 13-05629 ...........  $15.50

**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 Jeppesen chart slide right in! Now your mission data cards fit, your target photos can get more detail in them, and your attack cards slide right into this new pocket creating 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.

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” X 11” overall width including checklist ring holes 5 7/8”.

Sheet Size: 5” x 11” P/N 13-05630 ..........  $0.73

**FLYBOYS HARD PLASTIC CHECKLIST COVER SET FOR EXTRA PAGES**
The new Cover Set for the FB2203 pages are great. They are perfect for protecting 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 covers sets as you need. Sheet Size: 5” x 11” P/N 13-05631 ..........  $6.95

**OVERSIZED 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” 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: 5” x 11” P/N 13-05632 ..........  $0.95

**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 opened, they are a 1 1/2” 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 ..........  $10.50/ Pack
Black ..................P/N 13-08644 ..........  $10.50/ Pack
Red ..................P/N 13-08643 ..........  $10.50/ Pack

**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 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. *Price subject to change without notice.*

**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 papered-down sheets of the lower strap feature no-slip PVC material to help keep the strap secure on your leg. P/N 13-14943 ..........  $14.95
**KNEEBOARDS - HOODS**

**Fly Informed Kneeboard/Calculator**
This bottom opening pilot clipboard measures 8-1/2" x 12" and features a bottom storage compartment (1-1/2" deep) for charts, computers, checklists, pens, etc. Great for vertical or horizontal forms. Heavy duty aluminum construction with solid smooth writing surface. Furnished with battery powered calculator clip for in-flight calculations. Flexible light available separately.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Price</th>
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<tr>
<td>Detachable Light (clear)</td>
<td>P/N 13-00811</td>
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**Asa IFR Tri-Fold Kneeboard**
Strong aluminum tool steel clipboard silk screened with important IFR information fits into black 3-panel jacket. Has room for charts, books, flight computers, etc.

<table>
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<tr>
<th>Description</th>
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<th>Price</th>
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<tr>
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**Asa VFR Tri-Fold Kneeboard**
This kneeboard uses the VFR Kneeboard in a three-panel jacket. The left panel has ample room for small books, papers and oddly-shaped items. The center panel holds the kneeboard under clear plastic with a pen/pencil holder and buttonholes on either side. The right-hand panel contains a clear pocket for easy map viewing, and the elastic leg band's pen/pencil holder and buttonholes on either side.

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<tr>
<td>Asa VFR Tri-Fold Kneeboard</td>
<td>P/N 13-02712</td>
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**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 helmet 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.

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<td>Black</td>
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<td>Silver</td>
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<td>CFI Flight Seat</td>
<td>13-20135</td>
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<tr>
<td>Helicopter</td>
<td>13-18988</td>
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</table>

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

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<thead>
<tr>
<th>Description</th>
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<th>Price</th>
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<td>Clear Lens Fog 1.0</td>
<td>13-05004</td>
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**Best Hood: IFR Training Hood**
The "Best Hood" is a sturdy paper hood which is amazingly simple yet very effective. Its inexpensive, it folds flat for the flight bag and is an excellent vision limiting device for instrument pilot training. Easy to use, the hood has a comfortable elastic headband and it fits easily over glasses.

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<td>Tint Lens Clear</td>
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<tr>
<td>Tint Lens Tinted</td>
<td>P/N 13-05016</td>
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**Super Hood**
Ideal with eye glasses or a headset; slides in under the helmet without relinquishing control of the aircraft and 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.

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<tr>
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<tr>
<td>IFR Training Glasses</td>
<td>P/N 13-00200</td>
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**IFR Training Glasses**
Polycarbonate Lenses (UV Protected). Adjustable nosepiece forward and to the side. Even more, ViBAN folds compactly to fit in your carry-on luggage. Comes with a protective carrying case and weigh only two ounces.

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<tr>
<td>IFR/VFR training hood</td>
<td>P/N 13-05050</td>
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**Cloud-Eeze™ IFR Training Glasses**
Designed by pilots for pilots. Cloud-Eeze™ 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. Cloud-Eeze™ are available in customizable powers with no need for a prescription. Available in Clear and Light Mirrored Tint (a reflective coating that eliminates glare without further limiting visibility). Available Powers: 1.5, 2.0, 2.5

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**Best Hood: IFR Training Hood**
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**Francis IFR Hood**
Francis hood restricts your vision totally to your instruments & because its small, will not block any part of an instructor's vision. Made of lightweight shock-resistant plastic, and has cushioned face pad for comfort. Adjustable elastic headband.

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<td>Francis IFR Hood</td>
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**Jeff Shades**
Replaces bulky, hard-to-use instrument training hoodls. The improved design allows better pilot/instructor interaction. The Cockpit proven design works conveniently under helmets and the universal adjusting strap reduces pressure on the ears and temple. The Velcro™ strap fits comfortably and flip-up lens allows convenient IFR/VFR flight transition. The high quality polycarbonate lens is impact resistant.

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**Foogles**
A creative solution to the problems caused by wearing a large hood on your head. Foogles fit and feel like glasses, but the opaque frosting on the top and sides let you see only the instrument panel. Out your 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.

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**The Hoody**
Provides a complete view of even the most sophisticated instrument panel. Weighs less than 2 oz. Stores easily in a flight bag with the flaps folded in. The Hoody® fits most caps. No hooks, no clips, just slips on and off. Easily molds to the bill of your favorite cap.

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<tr>
<td>The Hoody</td>
<td>P/N 13-12753</td>
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AME personal logbook is durable with a 4 mm textured imitation leather cover printed in gold. Pages are updated to current FAA requirements. Generous line spacing. Size: 5.75” x 7.75” 74 pages; Green cover. Comprised of 9 sections: Aircraft Description, Installed Equipment, Major Alterations, Life Limited Parts or Overhaul Requirements, AD or Factory Bulletin Compliance Record, Altimeter and Static System Checks, Radio and Electronic Checks, Maintenance Record (FAR 43.9), Inspection Record (FAR 43.11-91.217), AF-6 Hard Cover..................P/N 13-32385 $9.95
AL-12P Soft Cover..........................P/N 13-04670 ....................$7.95

CUSTOM-BUILT 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. Pazmany) P/N 13-20101..............$25.00

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 .................$4.75
SA-2 hard cover-Hunter Green; 7.75” x 5-5/8”; 96 pgs P/N 13-32384 ...................$9.95

ASA AIRCRAFT FLIGHT LOG/LOGBOOK (SP-FLT)
Spiral-bound and perfectly sized to fit in an aircraft glove box or chart pocket, this logbook is a quick reference to the recent history of the airplane so pilots have immediate access to the airplane’s records. P/N 13-00163 .....................$9.50

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 that 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, schools, charter and many other operations where there are a number of different pilots flying the aircraft.
Single engine log..........................P/N 13-01946 ...............$7.95
Multi-engine log............................P/N 13-01947 ...............$7.95

AIRCRAFT TECHNICAL LOG POST BINDER
Logbooks will stay in top condition when kept in a sturdy binder. This binder is specially designed to keep any number of our maintenance logs together. The binder is a “must have” for a multi-engine aircraft that could have up to 12 individual logs. Capacity: 1 Binder can easily hold a dozen component logbooks, more than enough for a 4-engine aircraft.
P/N 13-12324 .........................$28.50

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 13-12860 ...........$6.50

CULHANE AME PERSONAL LOGBOOK
This Culhane aviation training product is a personal logbook in hardcover format, fully meets CARs requirements. Those wishing to qualify for a Canadian Aircraft Maintenance Engineer license must successfully complete approved maintenance tasks appropriate to the rating sought in accordance with Part V of the CARs. This AME personal logbook is durable with a 4 mm textured imitation leather hardcover and Smyth-sewn binding. Also includes a bookmark ribbon.
128 pages, measures 5.75” x 8.75”. P/N 13-19888 ............$29.95

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 5-5/8”) 96 pages.................P/N 13-32382 ...............$9.95
Soft Cover (7.25” x 4”), 64 pages..................P/N 13-32380 ...............$4.75

EAA ENGINE LOG BOOKS
ASA ENGINE LOG BOOKS
Keep track of engine inspections, tests, repairs and alterations, airworthiness directives, manufacturers’ mandatory service bulletins & equipment removal or exchange. Color: Burgundy.
Hard Cover (7.75” x 5-5/8”) 96 pages.................P/N 13-32382 ...............$9.95
Soft Cover (7.25” x 4”), 64 pages..................P/N 13-32380 ...............$4.75

ASA AVIONICS LOG BOOK
Includes entries for avionics equipment, VOR accuracy, transponder & ELT checks, AD & SB compliance, maintenance records. Soft cover, black, 7-1/4” x 4”, 24 pages.
P/N 13-32370 ...............$3.95

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, employment, students to log training and educational requirements. 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 13-02311 ...............$6.25

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

AIRCRAFT TECHNICAL LOG
SECTION 1 AIRFRAME
The Airframe Log (Section 1) is used to record details of airframe flight hours and related maintenance tasks. Three-hole drilled for keeping in a ring binder or Tech Log Book. Vary the number of engine and prop volumes for multi-engine aircraft. The 6 sections are ordered separately, depending on the number of engines, props, etc. Each tech record can be bound with all the others into the Tech Log Binder to make up the complete aircraft Technical Record. When bound together, the entire log is almost indestructible, yet each record can be removed easily for updating at any time.
Log Section 1 Airframe.........................P/N 13-12325 ...............$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 ...............$7.80
Log Post Binder..................................P/N 13-12324 ...............$28.50

AIRCRAFT TECHNICAL LOG
SECTION 2 AIRFRAME
The Avionics Log (Section 2) is used to record details of avionics flight hours and related maintenance tasks. Three-hole drilled for keeping in a ring binder or Tech Log Book. Vary the number of engine and prop volumes for multi-engine aircraft. The 6 sections are ordered separately, depending on the number of engines, props, etc. Each tech record can be bound with all the others into the Tech Log Binder to make up the complete aircraft Technical Record. When bound together, the entire log is almost indestructible, yet each record can be removed easily for updating at any time.
Log Section 1 Avionics .........................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 ...............$7.80
Log Post Binder..................................P/N 13-12324 ...............$28.50

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PILOT LOG BOOKS

JEPESEN 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 ................ $29.95

JEPESEN PROFESSIONAL EUROPEAN LOGBOOK
Complies with JAR-1060 regulations for logging flight time in Europe, handles 10 years of data. Size: 17.1 x 28.6 cm
P/N 13-02212 ............... $29.95

JEPESEN PILOTOLOG 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 ............ $13.95

LITTLE PILOTOLOG LOGBOOK
The Little Logbook is the perfect gift for the aviation enthusiast. Record treasured stories and precious favorites, display adorable pictures and store mementos in this spiral bound 8.75" x 5.75" hardcover 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 13-06342 .................. $24.95

STUDENT PILOTOLOG LOGBOOK
This Logbook is designed for Student Pilots preparing for Private, Sport, and/or Recreational Pilot licenses. The student's learning progress is comprehensively tracked from his first flight to his last prior to his completion ride. This Logbook was designed for 14 CFR Section 61 (FAR Part 61) flight training requirements using 14 CFR Section 141 (FAR Part 141) documentation methods. There are upwards of fifty (50) critical areas of airmanship presented and tracked per flight. These areas range from take-offs, flight maneuvers, to landings. Discussion time is also tracked along with ground school briefing time. There are 60-day refill.
P/N 13-02309 .................. $21.85

CANADIAN LOGBOOKS
A reprinted version of the now defunct Transport Canada AME Logbook. Hard cover / Burgundy, 8-1/2" x 5-1/2"
P/N 13-12957 ............... $19.95

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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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 includes full 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 ............... $21.85

POWER PUFF PILOTAVIATRIX LOGBOOK
This logbook-scrappy hybrid document captures a youngster's early flying experiences. Its removable, cardboard stock pages record their First Flight Plan, First Pilot Report, and a flight log. It also has pages for listing favorite pilots, future aspirations, thoughts and quotes about flying, photos, and drawings. Pink
P/N 13-11471 ................ $23.95
Blue ................................ $23.95
Green ................................ $23.95

STANDARD PILOT MASTER LOG BLACK
The finest and most versatile logbook 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. Columns provide space for multiple entries, but are flexible enough to allow pilots to customize to fit their needs. Summary pages allow pilots to track experience, aircraft types, currency, medical dates, flight review, and more for quick reference. Hard cover, black, 11" x 6-1/2", 278 pages.
P/N 13-32392 ............... $20.95

PILOT LOGBOOK (ASA-SP-10)
This new introductory logbook is perfect for flight instructors and flight schools to start students out with an inexpensive logbook. With space for 16 separate flight entries, a ground instruction log, several solo endorments, and a separate log for each type of aircraft flown, this logbook is great for introductory flights, first flight lessons, promotional give-aways and more.
P/N 13-05670 ............... $2.95

ASA FLIGHT CREW LOGBOOK POCKET SIZE
Created with the input of airline pilots and instructors, these shirt-pocket size logs are designed for long-lasting and comprehensive recordkeeping on the road. Options are provided for tracking flight time, currency requirements, expenses, duty times, layovers, and much more. Soft cover. Black, Spiral bound. 108 pages. 3-1/2" x 4-1/4".
P/N 11-08801 ............... $5.75

ULTRALIGHT PILOT'S LOGBOOK
This small logbook is perfect for the ultralight pilot. Includes sections for flight time, aircraft/airpark information, and engine repairs, plus metric/inch conversion table and fuel/oil ratio chart. Measures 4 1/4" x 7".
P/N 13-11592 ............... $1.95

GLEIM PILOT LOGBOOK
The Gleim Pilot Logbook provides detailed entries for all flight information, sections for certificates, ratings, and operating privilege endorsement section, table of contents, room for up to 450 entries, and much more. High quality paper and hard cover binding. 112 pages. 5" x 3".
P/N 13-01622 ................ $8.95

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 4 1/4".
P/N 13-17634 ............... $9.95

ASA STANDARD UAS OPERATOR LOG
The Standard UAS Operator Log meets the operator's requirements for training, currency checks, and flight information for small and large unmanned aircraft systems (UAS) or unmanned aerial vehicles (UAV), remote-control aircraft (R/C), remotely piloted aircraft (RPA), and drones. Color: Green
P/N 13-18644 ............... $10.95

WWW.AIRCRAFTSPRUCE.COM

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PILOT LOG BOOKS

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

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

MAROON FLIGHT CREW LOGBOOK
Created with the input of airline pilots & instructors, these shirt-pocket size logs are designed for long lasting and comprehensive recordkeeping on the road. Options are provided for tracking flight time, currency requirements, expenses, duty times, layovers, and much more. Soft cover, 8.5" 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 1 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 3 3/4". Single.................P/N 13-04432..............$11.50

13 Pack.................P/N 13-04446..............$38.35

LOGBOOK ENDORSEMENT STICKERS
Can be used for Flight Reviews and Instrument Proficiency Checks, and comply with FAR 61.56 and FAR 61.57 on PIC recent flight experience and flight reviews. Each sticker measures 2" H x 4"L. 10 stickers per sheet on white paper.
P/N 13-06585..............$2.35

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 14-00006..............$8.50

CULHANE CANADIAN AME LOGBOOK
This AME personal logbook designed by Michael Culhane ATPL BSc B 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.

MASTER LOGBOOK CASE
Durable nylon logbook cover sized to hold master logbook, charts, and other aviation essentials. Loop fasten, pencil and 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..............$19.95

LOG BOOK COVERS
These nylon logbook covers are very lightweight 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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AOPA LUGGAGE COLLECTION

EXCLUSIVELY FROM AIRCRAFT SPRUCE

As a Strategic Partner with AOPA, Aircraft Spruce supports the efforts of AOPA to promote flying and defend the rights of general aviation pilots. Aircraft Spruce is proud to partner with AOPA to offer this high quality line of luggage from Clubglove.

CLUBGLOVE AOPA CARRY ON BAG

This premium carry-on fits easily in most overhead storage bins. With interior clothing divider. Includes set of large and small clothing organizers plus a J-Hook for carrying an additional smaller luggage piece. Made in USA. Limited lifetime warranty. AOPA logo will be embroidered on bag. 22.5”H x 13”W x 9”D with 2300 cubic inch interior • 9 lbs • Telescoping and retractable 42” length handles • 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 • Patent-pending integrated carry handle integrates with Train Reaction™ (Patent Pending Ser#12/348,857) • 5-year NQA warranty available.

P/N 13-16586 ...............$349.00

CLUBGLOVE AOPA ROLLING DUFFLE

Premium medium travel bag (9.0 lbs) accommodates enough clothing for 1-week travel time. Lightweight and strong, glides to keep all your gear organized and can easily accommodate a laptop and computer. With adjustable, padded shoulder straps. Made in China. • 19” H x 16” W x 9” D • 44 linear inches • Single piece burst proof construction made with Invista™ Cordura® 1000 D water resistant nylon up to 3x stronger and lasts up to 5x longer than standard polyester • YKK® zippers • Telescoping, adjustable and retractable handles • Over the top zipper for easy loading • 2 exterior side storage pockets • ID card holder • Collapses and stores flat for easy storage when not in use.

P/N 13-16589 ...............$299.00

CLUBGLOVE AOPA BACKPACK

This rugged backpack is both durable and versatile with 7 total pockets to keep all your gear organized and can easily accommodate a laptop and computer. With adjustable, padded shoulder straps. Made in China. • 17” tall x 13” wide x 7” deep and very lightweight. • Made in USA. • Ergonomic molded rubber handle. (Included) • Compact in size being 17” H x 13” W x 4” D • 32 linear inches • Single piece burst proof construction made with Invista™ CORDURA® brand 1000 d water resistant nylon fabric up to 3x stronger and lasts up to 5x longer than standard polyester • YKK® zippers • Sturdy top handle • Water bottle mesh pocket, 1 mesh zippered pocket plus 2 interior mesh pockets • 2 front pockets plus main pocket • Integrates with Train Reaction™ (Patent Pending Ser#12/348,857).

P/N 13-16588 ...............$159.00

CLUBGLOVE AOPA SHOULDER BAG

This premium compact carry-on features access on both sides, 9 total pockets and can serve as an overnight bag or for business, and housing a laptop computer. Convenient front and back storage pockets plus cell phone pocket. Made in USA. Limited lifetime warranty. AOPA logo will be embroidered on bag. • 12” H x 16” W x 4” D • 32 linear inches • Single piece burst proof construction made with Invista™ Cordura® 1000 D water resistant nylon up to 3x stronger and lasts up to 5x longer than standard polyester • Removable padded shoulder strap • 3 exterior pockets, 4 mesh pockets plus 2 zippered pockets • Interior laptop strap.

P/N 13-16587 ...............$149.00

CLUBGLOVE AOPA TRAVEL KIT

A smaller, premium compact size travel kit to conveniently organize small items or toiletries. Streamline design slips into Shoulder Bag or briefcase. Easy access large double zipper. U-shaped top opening and smaller zippered front pocket. Compliments and completes your total luggage ensemble. Made in USA. Limited lifetime warranty. AOPA logo will be embroidered on bag. • 2” H x 7.5” W x 6” D • High quality machine washable synthetic taffeta material • YKK® zippers • Black with colored accent piping and 1” web handle.

P/N 13-16590 ...............$39.95

CLUBGLOVE AOPA SUIT ORGANIZER

Protects your suits or garments from wrinkles. When double folded, it fits easily into any of the ClubGlove wheeled luggage pieces. Made in USA. AOPA logo will be embroidered on bag. • 42” H x 24” W x 4” D (flat) • 70 linear inches • Durable, lightweight nylon fabric • AOPA monogram • YKK® zippers • 2 tension straps secure clothing inside bag • 2 large magnets snap closure secures organizer when double folded.

P/N 13-16598 ...............$89.95

SCHYEDEN AOPA MICRO FIBER TOWEL SET

The Panel and Cabin towels are made from the finest waffle textured microfiber in the world. They will outperform any towel in their category. These lint free long lasting towels willwick dirt and stains out of carpet and upholstery while the panel towel will remove dust, oil, dirt and finger prints from your beloved panel. Give them a try. You will be amazed at their performance. • Premium Microfiber Strands • Holds 300% of its weight in water • Waffle-textured towel is super absorbent • Non-abrasive and virtually lint free • Perfect for washing, drying and polishing all surfaces • Machine wash with mild detergent, no bleach.

P/N 13-16584 ...............$16.99

WWW.AIRCRAFTSPRUCE.COM
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 cubic feet. The B18 HANGAR is designed to 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 13-16012 $215.00

**Brightline Flex B4 Swift Flight Bag**

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

P/N 13-19653 $133.00

**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 $48.00

**Brightline Flex Side Pocket Delta**

The Side Pocket Delta 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 slot.

P/N 13-11988 $13.00

**Brightline Flex 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 $13.00

**Brightline Flex 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 $13.00

**Brightline Flex Side Pocket Charlie**

The Side Pocket Charlie is a pen pocket designed to hold pens and pencils. 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 13-11985 $13.00

**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 13-18167 $19.00

**Brightline Flex B2 Compute Bag**

The B2 Compute starts with the 2" Center Section, which is designed to hold 13" laptops. Add a Front and Rear End Cap and you have an extraordinary laptop bag. The Front End Cap allows you to store items such as power cords, backup drives, flash drives, digital cameras, smart phones, tools, keys, etc. Meanwhile, the Rear End Cap allows you to store your manila 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”.

Brightline Bag Shoulder Strap Extension Set ... P/N 13-19489 $16.00

Brightline Flex Holder ... P/N 13-19495 $17.00

Brightline Flex Base Plate ... P/N 13-19493 $8.75

Brightline Flex Kit - Tall ... P/N 13-19492 $50.00

Brightline Flex Kit - Short ... P/N 13-19491 $54.00

Brightline Bag Luggage Works Adapter Set ... P/N 13-19490 $16.00

**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 $90.00

**Brightline Center Section 5 Inch**

The CS5 is 13.5" x 10.5" x 5". It is designed to be used with the CS2 to add IFR functionality. It’s a perfect VFR bag. 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." (And remember, it is a soft bag so it can expand slightly in every direction.)

P/N 13-11982 $56.00

**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 $36.00

**Brightline Bags O-Rings**

Serve two purposes: 1) replaces o-rings on the main handle of the bag and 2) allows you to attach a J-hook from your main suitcase in between the two pairs of o-rings to keep the J-hook from sliding side-to-side on the main handle of the BrightLine Bag as you pull your main suitcase around. Includes two pairs of o-rings (total of 4).

P/N 13-11991 $2.00

**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 Front End Cap.

P/N 13-11984 $52.00

**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" x 2". The Rear End Cap does not come with a Main Handle or a Shoulder Strap.

P/N 13-11985 $27.00

**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 cubic feet. The B18 HANGAR is designed to 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 13-16012 $215.00

**Brightline Flex 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 $90.00

**Brightline Flex Center Section 5 Inch**

The CS5 is 13.5" x 10.5" x 5". It is designed to be used with the CS2 to add IFR functionality. It’s a perfect VFR bag. 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." (And remember, it is a soft bag so it can expand slightly in every direction.)

P/N 13-11982 $56.00

**Brightline Flex 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 $36.00

**Brightline Bags O-Rings**

Serve two purposes: 1) replaces o-rings on the main handle of the bag and 2) allows you to attach a J-hook from your main suitcase in between the two pairs of o-rings to keep the J-hook from sliding side-to-side on the main handle of the BrightLine Bag as you pull your main suitcase around. Includes two pairs of o-rings (total of 4).

P/N 13-11991 $2.00
**FLIGHT BAGS**

**AERO SQUADRON LEATHER BAGS**

**AERO SQUADRON LEATHER DUFFLE BAG**

Desc: CARRY ON BAG 19” Length, 10” Height, 9.5” Width  Color: Walnut  
P/N 13-07202 ............................................................ $298.00

**AERO SQUADRON LEATHER BRIEF CS**

Desc: SATCHEL BRIEF 16.5’ Length, 12” Height, 4” Width  Color: Walnut  
P/N 13-07199 ............................................................ $358.00

**AERO SQUADRON LEATHER CARRY-ON**

P/N 13-07206 ............................................................ $490.00

**AERO SQUADRON LEATHER TRAVEL SLING**

Desc: TRAVEL SLING 13.5” Width 9.75” Height, 6.75D  Color: Walnut  
P/N 13-07204 ............................................................ $170.00

**AERO SQUADRON LEATHER HANDBAG**

Desc: HANDBAG COLLECTION 8.25” Length, 10.5” Height, 3” Width  Color: Walnut  
P/N 13-07207 ............................................................ $170.00

**AERO SQUADRON LEATHER SHAVE KIT**

Desc: SHAVE KIT 10” Length, 6” Height, 4” Width  Color: Walnut  
P/N 13-07196 ............................................................ $104.00

**AERO SQUADRON LEATHER SHIELD TOTE**

Desc: MAN BAG W/SHOULDER STRAP  Color: Walnut  
P/N 13-07201 ............................................................ $128.75

**AERO SQUADRON LEATHER DUFFLE BAG**

**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. 12”H x 7-1/4"W x 14-1/2”L  
P/N 13-04255 ............................................................ $67.75

**MEDIUM DELUXE FLIGHT BAG**

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

**DELUXE HEADSET BAG**

It is the perfect bag to protect and organize any fragile and expensive equipment. Not only will this bag hold a headset, but other necessary items as well! 10”H x 4-1/4”W x 10”L  
P/N 13-01416 ............................................................ $32.50

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**BISON 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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**BISON 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. 16 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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**AERO SQUADRON LEATHER DUFFLE BAG**

**AERO SQUADRON LEATHER DUFFLE BAG**

**AERO SQUADRON LEATHER DUFFLE BAG**

**WWW.AIRCRAFTSPRUCE.COM**

Prices Subject to Change Without Notice
NORAL EXPRESS FLYER BAG
The swing hook for the adjustable shoulder strap is made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. Made of 1680 Denier Ballistic water repellent material. Its interior is fully padded and covered with the liner of water repellent taffeta. Black: P/N 13-11441 $61.75
Grey: P/N 13-11440 $61.75

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 for store pens, flashlights, ID card and/ or license etc. Inside the main compartment there is a removable pocket for Transceiver/GPS 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. At the bottom floor of the bag is a removable plastic board to reinforce it and to keep the bag from sagging when fully loaded. Made of 1680 Denier Ballistic water repellent material. Its interior is fully padded and covered with the liner of water repellent taffeta. Black: P/N 13-11446 $206.95
Grey: P/N 13-11445 $204.95

NORAL AVIATION FLIGHT BAG (DETACHABLE)
The main compartment of this bag has a removable divider which can be adjusted to a different position. The bottom floor has a removable plastic board to reinforce. 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. Black: P/N 13-11428 $165.95
Grey: P/N 13-11429 $165.95
Blue: P/N 13-15769 $142.75

NORAL AIRCRAFT DOCUMENT HOLDER
This durable document holder is made of strong fabric with two clear pockets to hold your aircraft documents secure and visible. It comes with two inches of velcro to be placed anywhere that velcro can be applied to. Velcro: P/N 13-01134 $23.85

NORAL ANGELS TOOL BAG
Two side pouches and over one of the side pouches is an open pocket for easy access. In the front of the bag is a large zippered pocket and both the front and back of the bag are metal loops to keep organized. Also, inside this portfolio is a large zippered pocket. The main compartment has 10 more elastic loops for small tools and 3 easy access pockets. The main compartment also has a removable and adjustable divider to keep instruments organized. Color: Grey: P/N 13-11421 $153.75

NORAL SINGLE HEADSET BAG
This bag is ideal for the pilot that wants to carry a passenger headset or his own, separate from his flying bag. It is constructed with genuine DuPont® Cordura® 1000 Denier, water resistant, fully padded with a 1/4” foam backed with a layer of tricot. Features separate zippered compartment along with an extra side pocket. Grey: P/N 13-00286 $34.60

NORAL STUDENT PILOT BAG
The Student Pilot Bag has plenty of room for everything a student pilot needs to carry and more! It has 2 extra large zippered side pockets plus another zippered section to store pens, flashlights, fuel tester, E6B computer and more! Access to the main compartment is through a double zip 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 12” L. Grey: P/N 13-00294 $76.75

NORAL PRIVATE PILOT BAG
Fits all the goodies and gadgets a pilot needs and wants to carry. It has two extra large zippered side pockets plus another zippered section to store pens, flashlights, fuel tester, E6B computer and more! Access to the main compartment is through a double zip 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. Black: P/N 13-00313 $85.75

NORAL MACH 1 FLIGHT BAG
The Mach 1 flight bag is compact yet roomy. The bag features a wide 5” double zippered access flap for each side. There are two end compartments 6” x 10”. On the front, a zippered 1” x 6” compartment. On the back is a 4” x 8” x 6” headphone compartment which will accommodate the biggest of headphones. 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 Pocket that can be worn on your belt. Also included is a shoulder strap and carry handle. Dimensions: 15” L x 11” W x 10 1/2” H. Black: P/N 13-04088 $109.75 Grey: P/N 13-04092 $115.75

NORAL MACH 2 FLIGHT BAG
Safe and convenient way to protect a single headset. Features foam padded single zippered compartment with convenient webbing handle. Made in USA. Size: 7” L x 4” W x 9” H. Color: Black, Grey, Blue. P/N 13-04080 $25.25

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 two extra large zippered compartments 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 flash light. The main compartment is H9” x W9” x G4.5”. Black: P/N 13-07468 $41.95
Grey: P/N 13-11356 $42.50

NORAL CFI / IFR PILOT FLIGHT BAG
This bag has two side pouches equipped for large sized headsets. One of these side pouches has a flap pocket with a zipper closure to store pens, flashlights, ID card and/ or license etc. Inside the main compartment there is two removable pouches for GPS/Transceiver and a divider in the main compartment that can be adjusted to a different position and can be removed if desired. P/N 13-15788 $167.99

NORAL AIR MAP CASE 1000
The Noral Air Map Case 1000 is made of 1680 Denier Ballistic water repellent material. Interior is fully padded and covered with the liner of water repellent taffeta. Black: P/N 13-11434 $28.50 Grey: P/N 13-11437 $28.50

NORAL IPILOT BAG
The Mach 1 flight bag is compact yet roomy. The bag features a wide 5” double zippered access flap for each side. There are two end compartments 6” x 10”. On the front, a zippered 1” x 6” compartment. On the back is a 4” x 8” x 6” headphone compartment which will accommodate the biggest of headphones. 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 Pocket that can be worn on your belt. Also included is a shoulder strap and carry handle. Dimensions: 15” L x 11” W x 10 1/2” H. Black: P/N 13-04088 $109.75 Grey: P/N 13-04092 $115.75

NORAL AIRCRAFT SPRUCE SINGLE HEADSET BAG
Safe and convenient way to protect a single headset. Features foam padded single zippered compartment with convenient webbing handle. Made in USA. Size: 7” L x 4” W x 9” H. Color: Black, Grey, Blue. P/N 13-04080 $25.25
ASAcny "crew" luggage tag dual sided

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 flex cord that enables you to attach it to your luggage or equipment without worrying about whether it will break or tear. 3-3/4" x 2-1/4". White Tag . P/N 14-02963 .................$5.35 Blue Tag . P/N 14-02960 .................$5.70

Prices Subject to Change Without Notice

ASA AIRCLASSICS FLIGHT BAG

ASA has brought pilot gear to a new level with the AirClassics series of pilot bags. Focusing on a clean, sophisticated and professional look, they have been designed and engineered to be supremely functional. Padded 600D nylon for superior durability. Comfort Grip connectable handles. Non-slip detachable carry strap. Reinforcing straps around bag for strength. #10 zippers for easy handling. Headset pockets on both ends. Large single-pull, zippered & dividable main compartment. 18"L x 11"H x 7"W. P/N 13-02336 ..................$69.75

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, high-quality zippers on the main compartments.

Pilot Bag . P/N 13-04057 ..............$37.50
Trip Flight Bag . P/N 13-04058 .............$59.50

ASA TECH FLIGHT BAG

Ideal for the computer-toting pilot. It includes a padded laptop sleeve for safe storage of your computer or favorite EFBe. Up to 15 x 11") and has plenty of pockets for carrying everything from headsets to sticky notes. Dimensions: 19" wide x 8" tall x 12 1/2" deep. Made of 600D polyester with PVC backing for extreme durability. Non-slip removable shoulder strap. Molded carry handle for strength and comfort.

• Rugged zippers. * Outside ID pocket * Padded interior divider panels with numerous compartments * Padded interior laptop/EFB sleeve. P/N 13-06260 ..................$85.75

PROFLIGHT PREMIUM HEADSET BAG

Three small individual pockets. It is made to resist water and tears. Padded protection for an individual headset with a dual zipper on top makes access very easy. Will fit most ANR headsets. Size: 10-3/4" x 11-3/4" x 5". P/N 13-06936 ..................$19.95

ASA FLIGHT BRIEFCASE

The Pilot Briefcase features an expandable, zippered main compartment with room for all ground and flight school necessities. The outer flap provides easy access to a chart pocket with multiple accessory storage areas to store everything from pencils and pens, to flashlights and flight computers. Also perfect for laptop computers. Each bag is black with the ASA wings logo tastefully silver-embroidered on the top. Count on ASA’s AirClassics Flight Bags to bring many years of utility and pride.

Dimensions: 19 x 14 x 6. P/N 11-09097 ..................$109.97

CASE FLIGHT

The Case Flight luggage bag is roomy, has multiple pockets, lightweight, and holds plenty of pilot gear. This professional case is made with rugged durability in mind for today’s aviator.

Dimensions: 19 x 14 x 6. P/N 11-09097 ..................$109.97

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, 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 pouch for a tablet. The backpack’s interior contrasting-color lining makes it easy to find things inside.

P/N 13-18460 ..................$69.95

AEROCOAST PRO EFB & INSULATED COOLER BAG

Top pocket for sunglasses, Shoulder strap connection points on both modular sections. Modular design lets the EFB & Cooler portion to be used independently or used in unison. Easy X-ray screening at TSA checkpoints so you will never take out your laptop again. Two separate insulated compartments to keep your food warm or cold. Four additional pockets for easy storage of accessories. Leak resistant main compartment design. Fits under aircraft seats for easy stowage on travel. Outside dimensions: 15 x 11 x 10 inches. Laptop compartment dimensions 15 x 11 x 3 inches. P/N 13-12893 ..................$119.95

ASA TABLET BAG

The Tablet Bag is the perfect size for student and professional pilots alike! This conveniently sized bag, handy for pilots and aviation professionals alike, holds a tablet, headset and other small personal items for your flight. This bag will hold a lot more than just a tablet, in fact, it has plenty of room for a 13" laptop and tablet. It will also hold a headset, charts, a plotter, logbook, radio, or gps unit, and all of those other small items a pilot may need to carry. The outside of the bag has a spot for a flashlight or fuel tester and a zip pocket for a radio, GPS, or water bottle. The packed, adjustable shoulder strap can be worn cross body for a comfortable fit, and easy portability. Focusing on a clean, sophisticated and professional look, the ASA AirClassics® Tablet Bag is designed and engineered to be supremely functional, able to stand up to the toughest treatment possible, yet still look great at the end of the day.

P/N 13-18460 ..................$69.95

AEROCOAST PRO I FLIGHT CASE

• Waterproof ballistic material * Metal piano hinge for added strength * Protective plastic plate * Multi access folder compartments * Multiple storage compartments * Flashlight holder * Leather wrapped handle * Side pocket compartment * Name card holder with clear cover * Embroidered gold logo * Added Velcro to both inside flaps * Outside dimensions 18 x 13 x 8 inches. P/N 13-06041 ..................$160.00

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. 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 13-16281 ..................$94.95

AEROCOAST PRO SLIM LAPTOP BAG

Top pocket for sunglass. Shoulder strap connection points on both modular sections. Easy X-ray screening at TSA checkpoints so you will never take out your laptop again. Two separate insulated compartments to keep your food warm or cold. Four additional pockets for easy storage of accessories. Leak resistant main compartment design. Fits under aircraft seats for easy stowage on travel. Outside dimensions: 15 x 11 x 10 inches. Laptop compartment dimensions 15 x 11 x 3 inches. P/N 13-12893 ..................$119.95

WWW.AIRCRAFTSPRUCE.COM
JEPPESSEN PILOT BACKPACK
A great backpack for the student pilot or certificated seasoned pilot. This backpack is a great option in offering convenience and flexibility. Perfect for carrying your laptop, charts, headset, and other pilot supplies.
Features:
- Padded laptop sleeve
- Large center storage area
- Computer accessory storage
- Internal file sleeve
- Fleece-lined audio pocket with headphone exit port
- Digitall-media pocket
- Jeppesen zipper pulls
- Sturdy neoprene grab handle
Specifications:
- 400x400 Dobby pindot nylon, 600-denier polyester
- Weatherproof, fleece lined inner pockets
- Overall dimensions: 21“ x 14” x 9-1/2”
- Laptop sleeve
- 980
Prices Subject to Change Without Notice
P/N 13-02023 $175.75
Mult-Camo 13-20637 $175.95
ACU Camo 13-20638 $175.95
ABU Camo 13-20639 $175.95
Coyote 13-20640 $175.95

SINGLE HEADSET BAG
For those who like to fly with minimum baggage, this holds one headset, has extra pockets, and allaround padding
P/N 13-02333 $16.95

VOYAGER II FLIGHT ATTACHE FOR IPAD
The Voyager II has upgraded metal snap hooks and d-rings to attach the stretchy, comfortable Air Lift shoulder strap. There is a separate pocket inside to carry your iPad1, 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 5.5m. Weight: 2lbs 13oz

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 $49.95

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. Makes moving items easy. Fits the Brightline Bag perfectly!
To attach the 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 reattach it to the opposite front buckle. The bag is now securely attached to the cart.
P/N 13-10007 $45.00

JEPPESSEN 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, removeable shoulder strap, reinforced bottom.
Size 10” x 5.5” x 17”
P/N 13-00997 $35.95

TUFF NUFF HEADSET CASE
A rugged built case with “clamshell” design for easy access. Your headset is well protected by a soft foam lining and tough Cordura outer shell. Fits all popular makes and models, with extra room for small accessories. Measures 9-1/2” x 10-1/2” x 3”, and weighs 7 oz.
P/N 14002 $24.95

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 18W x 12H. Features top quality zipper along front side for easy access and location to mark your aircraft number on front.

TRASH BAG WITH ADJUSTABLE SEAT BACK STRAPS
P/N 13-17860 $19.99

JEPPESSEN CASES & FLIGHT BAGS

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 padded 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 (54.5cm 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.

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 headsets & transceiver cases. Constructed with durable PVC backed with 600 denier poly. 15”x 6.5” x 12” (black only)
P/N 13-00998 $31.95

THE STUDENT PILOT
A great first bag for the student pilot. Numerous outside pockets organize charts, flight computer, fuel tester, plotter, pens and pencils, flashlight and much more. Comfortable, wide removable shoulder strap; double zipper opening for easy access. Reinforced bottom. Constructed with durable PVC backed 600 denier poly. 10”x 5.5”x17” (black only)
P/N 13-00687 $35.95

PRICE SUBJECT TO CHANGE WITHOUT NOTICE
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FLIGHT BAGS

FLIGHT OUTFITTERS FLIGHT LEVEL BAG
The Flight Level Bag is specifically designed to be all black, without any markings that uniform policies may not approve of. It features a rugged molded bottom and a steel-reinforced carry handle to withstand years of abuse. Patented hideaway pockets give pilots the flexibility and room they need to organize everything to suit every flight. The inside of the Flight Level has the signature Flight Outfitters orange, making it easy to find gear in a dark cockpit. There are 3 interior zip pockets for organizing cables, chargers and other smaller items that tend to find their way to the bottom of other bags. The Flight Level also features expanding file folders, tablet storage and a pass through pocket on the back to slide over rolling luggage handles. P/N 13-16538 .........$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 headset pocket, iPad pocket and multiple organizer sections with room for all your accessories. A helpful exterior pocket makes it easy to grab your backup radio in an emergency. Steel-reinforced carrying handles will haul even the heaviest load, and the reinforced sides offer additional protection. Signature orange interior makes it easy to find the flashlight or pen in the dark. Brown ...................... P/N 13-18181 .........$99.95

FLIGHT OUTFITTERS THRUST FLIGHT BAG
The unique sling pack design protects and organizes a surprising amount of gear, but is one of the smallest flight bags you can buy. It fits comfortably between iPad and headset pockets protect your most expensive equipment, while numerous mesh pockets keep your cords organized. Includes a carry handle and a single padded shoulder strap that can be adjusted for right or left shoulder use. P/N 13-18182 .........$79.95

FLIGHT OUTFITTERS CENTERLINE BACKPACK
The Centerline Backpack has organization for all the aviation gear you carry, but is versatile enough to use everyday, whether you’re at the airport, the office or the classroom. There is a dedicated headset slot and a padded tablet/computer pocket. Inside the top flap, there are plenty of elastic pouches to keep your cords and electronic accessories organized, and the center divider can be folded down to create one large storage area. It’s easy to move back and forth as your gear changes. P/N 13-21195 ............$99.95

GARMIN EXECUTIVE BLACK FLIGHT BAG
This Garmin executive ballistic nylon shoulder bag was designed with the pilot in mind and includes custom-made pouches to hold Garmin portable devices, such as the aera 796, VIRB action camera and GDL 39. Some of these pouches are even removable. Special pass-through areas are included throughout the bag to allow you to charge your devices from a separate battery charger without having to take them out of the bag. P/N 10-05882 .........$115.00

POWDER PUFF PILOT PINK FLIGHT BAG
In response to customers who lamented not being able to find a pink flight bag – here you are! A padded handle and gray shoulder strap makes it easy and convenient to tote, even when it’s full. The main compartment is roomy enough to carry headsets, charts, and flight gear for a cross-country adventure; or clothes, toiletries, and makeup for a weekend getaway. It also has two exterior pockets for easy access to your wallet, keys, and cell phone, as well as a mesh pocket for your water bottle. Bag dimensions: 10% by 17% by 10% inches. P/N 13-11469 .............$29.95

SSA DISPATCH BAG
Adjustable comfort shoulder that can also be worn cross-body. Top grab-and-go handle. Contrast lining, to find items more easily. Made of durable, 600D Polyester. Spacious main compartment fits headset. 2 pockets within main compartment keep headset accessories or smaller items organized. Front interior compartment organizer with slots and pockets keeps cords and electronic accessories organized, and the center divider can be folded down to create one large storage area. It’s easy to move back and forth as your gear changes. P/N 13-20713 .........$139.95

Padded handle and gray shoulder strap makes it easy and convenient to tote, even when it’s full. The main compartment is roomy enough to carry headsets, charts, and flight gear for a cross-country adventure; or clothes, toiletries, and makeup for a weekend getaway. It also has two exterior pockets for easy access to your wallet, keys, and cell phone, as well as a mesh pocket for your water bottle. Bag dimensions: 10% by 17% by 10% inches. P/N 13-11469 .............$29.95

LARGE CARRY BAG WITH DIVIDER SYSTEM

*Prox Subject to Change Without Notice

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PS
FLIGHT BAGS

SKY HIGH GEMINI
The Gemini flight bag is a fully padded duffle designed to protect the pilot's important gear. It is made with full sized compartment flaps, allowing easy organization of flight materials and access during flight - there is even a special stow-away pocket designed to hold most kneebands. Everything is right where it should be - especially important during IFR flights. The center compartment has a double zip 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 fuel tank, pen/pencil, pressure gauge, and piers or wrench. We have also included a grommet on the corner so you can attach it to the bag 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

SCHYEDEN 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.

VLK (Very Light Kit): • 12”H x 14”W x 5”D (2.8 lbs) • For pilots who have gone paperless • Ample space for keep your basic items for your preflight – Mini Mag size fuel tank, pen/pencil, pressure gauge, and piers or wrench. We have also included a grommet on the corner so you can attach it to the bag 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 13-14970 ...................$88.90

SCHYEDEN LUGGAGE FLIGHT KIT ENSEMBLE
The finest 3-piece flight crew luggage ensemble in the world. Manufactured in the USA using the finest materials and hardware available. Our ensemble is taller with a more slender profile (similar to that of a beverage cart) that allows you to slip down aisles of any aircraft to the flight deck with ease. Black.

P/N (Flight Kit): • 12”H x 14”W x 8”D • Ample storage for 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 pocket system (Patent Pending Ser#12/348,857) Dimensions: 22.5. Weight: 13.2 lbs. Limited lifetime warranty optional 5-Year NQA warranty upgrade.

P/N 13-14972 .................$529.00

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

Grey.....................P/N 13-11385............$88.85
Black..................P/N 13-01434.............$88.90

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 pockets, YKK® zippers, and covered with the liner of water repellent taffeta.

Size: 11” x 23” x 12” Black

P/N 13-00186 ...........$191.75
Grey.....................P/N 13-11375............$190.75

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: 18.2” x 12.7” x 5.2”. Overall Dimensions: 18.2” x 12.7” x 5.2”.

P/N 13-11599 .............$114.95

HARDSIDE CARBON FIBER BRIEFCASE

P/N 13-18537 ................$787.00

ROLLING BALLISTIC NYLON FLIGHT CASE
Now roll your way through airports, crew parking lot, and down those eternally long concourses easily with CrewGear®'s Rolling Ballistic Nylon flight case. This flight case is loaded with unique features. Best of all, IT ROLLS! Color: Black. Inside dimensions: 18” x 13 1/2” x 6”. Outside dimensions: 19 1/2” x 15 1/2” x 10 1/2”. P/N 14-00831 ..................$229.95

ULTIMATE “MULTI-TASKER” FLIGHT BAG PLUS
It’s a Flight Case, an Overnight Bag, a Brief Case and Computer Bag all in one! Proudly designed by CrewGear®, this bag will accommodate a 13” Laptop Computer (14” or less), Netbook or iPad. The clothing compartment is perfectly sized for one pair of slacks or jeans and your undergarments. The file-folder compartment is perfectly sized to hold documents, magazines and newspapers. That’s not all; this bag also comes with a toiletry pouch, and a shock-absorbing shoulder strap. Weight: 5 lbs. (Empty) Weight: 5.15 lbs. (w/Accessories). P/N 13-11598 ...........

$88.90

www.aircraftspruce.com

982

Price Subject to Change Without Notice
FLIGHT BAGS – AVIATION CASES

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 $239.95

SCULLY AEROSQUADRON MESSENGER BRIEF BAG
Lamb skin messenger brief bag for laptop. This bag comes with a front outer zip pocket under flap and a single gusset inside zip pocket in back and small open pockets in front. P/N 13-18002 $149.85

SCULLY AEROSQUADRON LEATHER TRAVEL KIT
Leather travel kit with exterior dual zip entry compartment. It has a roomy main compartment w/open pockets to hold travel bottles, toothbrush, etc. 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 $83.85

ASA AIRCLASSICS Flight Bag Pro
1000D Nylon for extreme durability and gear protection. Large, zippered side pockets. Unique detachable chart wallet. A zippered, mesh interior pocket. Smaller mesh compartment on the outside of the bag. Black with the ASA wings logo tastefully silver-embroidered on the top. Dimensions: 20”L x 10”H x 8”W.
P/N 11-08804 $108.95

Double Headset Bag
Double-sided, 1/4” padding everywhere; can hold two headsets. P/N 13-02334 $24.95

GATOR WATERPROOF AVIATION CASES

Part No. Item Number Description Interior Dimensions Price
13-17861 GU-0705-03-WPNF Black Waterproof injection molded case, with NO FOAM 7.4” x 4.9” x 3.1” $29.99
13-17862 GU-0806-03-WPNF Black Waterproof injection molded case, with NO FOAM 8.4” x 6” x 3.7” $34.99
13-17863 GU-0907-05-WPNF Black Waterproof injection molded case, with NO FOAM 9.4” x 7.4” x 5.5” $49.99
13-17864 GU-1008-03-WPNF Black Waterproof injection molded case, with NO FOAM 10.3” x 8.2” x 4.2” $59.99
13-17865 GU-1109-06-WPNF Black Waterproof injection molded case, with NO FOAM 11.3” x 9.3” x 6.4” $69.99
13-17866 GU-1210-06-WPNF Black Waterproof injection molded case, with NO FOAM 12.2” x 10.5” x 6.2” $79.99
13-17867 GU-1309-06-WPNF Black Waterproof injection molded case, with NO FOAM 13” x 9.3” x 6.4” $69.99
13-17868 GU-1309-03-WPNF Black Waterproof injection molded case, with NO FOAM 13” x 9.2” x 3.8” $34.99
13-17869 GU-0907-05-WPNF Black Waterproof injection molded case, with NO FOAM 9.4” x 7.4” x 5.5” $69.99
13-17870 GU-0806-03-WPNF Black Waterproof injection molded case, with NO FOAM 8.4” x 6” x 3.7” $49.99
13-17871 GU-0705-03-WPNF Black Waterproof injection molded case, with NO FOAM 7.4” x 4.9” x 3.1” $29.99
13-17872 GU-2172-08-WPNF Black Waterproof injection molded case, with NO FOAM 22” x 17” x 8.2” $144.99
13-17873 GU-2172-13-WPNF Black Waterproof injection molded case, with pullout handle and inline wheels and NO FOAM 22” x 17” x 12.9” $229.99
13-17874 GU-1510-06-WPDF Black Waterproof injection molded case with DICED FOAM 15” x 10.5” x 6.2” $84.99
13-17875 GU-1711-06-WPDF Black waterproof injection molded case with DICED FOAM 17” x 11.8” x 6.4” $124.99
13-17876 GU-1813-06-WPDF Black waterproof injection molded case with DICED FOAM 18” x 11.8” x 6.4” $149.99
13-17877 GU-2011-07-WPDF Black waterproof injection molded case with pullout handle, inline wheels, and DICED FOAM 20.5” x 11.3” x 7.4” $179.99
13-17878 GU-2014-08-WPDF Black waterproof injection molded case with DICED FOAM 20” x 14” x 8” $159.99
13-17879 GU-2117-08-WPDF Black waterproof injection molded case with DICED FOAM 22” x 17” x 8.2” $199.99
13-17880 GU-2217-08-WPDF Black waterproof injection molded case with DICED FOAM 22” x 17” x 8.2” $199.99
13-17881 GU-2217-13-WPDF Black waterproof injection molded case with pullout handle, inline wheels, and DICED FOAM 22” x 17” x 12.9” $229.99
13-17882 GU-2217-13-WPDF Black waterproof injection molded case with DICED FOAM 22” x 17” x 12.9” $229.99
13-17883 GU-X22 Cargo Case w/Lift-Out Tray, Wheels, Retractable Handle 12”X9”X5” $290.99

Lightspeed Adventure Flight Bag - The Gann
Ready for a true journey, the Gann is imbued with the same insatiable thirst for adventure as the novelist it 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 $199.00

Lightspeed Adventure Flight Bag - The Markham
Ready for a true journey, The Markham is imbued with the same insatiable thirst for adventure as the novelist it 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: 11”W x 4.5”D x 9”H. P/N 11-13508 $25.00

Lightspeed Adventure Flight Bag - Organizer Insert
Designed to help organize the interior of all of our flight bags, the organizer insert is made from 210 Denier polyester. Perfectly sized to hold a headset, camera, and other essential gear, it features padded, sewn-in dividers, multiple accessory pockets and woven bindings to protect the edges. Dimensions: 11”W x 4.5”D x 9”H.
P/N 11-13508 $25.00

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPIRUCE.COM
**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 person's body. This provides even pressure distribution and unconstricted blood circulation, significantly reducing discomfort, even over long periods. In addition, Backsaver foam has excellent energy absorption properties, which have made it excellent for use in the U.S. space shuttle program and in military aircraft and helicopters. Pilots find that Backsaver cushions reduce their discomfort and fatigue, even on missions of 8 hours or more. Aircraft Spruce now makes Backsaver foam available to the homebuilt and general aviation market.

Backsaver Foam........P/N 01-09325........$92.50
Backsaver 36” x 80” Foam........P/N 01-09330........$541.00

**CONFOR FOAM SEAT CUSHION**
Temperfoam is the conforming foam cushion that was developed for the “Astronaut’s Couch” back in the Apollo space program. Seat bottoms have 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 seat 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. Temperfoam is not currently FAA approved for certificated seating, but it adapts to you for pressure-point-free comfort that is really incredible. This provides even pressure distribution and unconstricted blood circulation, significantly reducing discomfort, even over long periods. Also available: 3 or 4-inch thick child’s cushion that finally lets kids see outside, keeps them interested as well as comfortable during long trips. Both seat and cushion are available in either Air Force blue or red. Add B (blue), or R (red) after part number to indicate color.

Dimensions for all Seats: Back: Width - 16’’ Height - 17’’ Seat: Width -15’’ Depth - 12’’

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<th>Description</th>
<th>Part No.</th>
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<td>Blue - Cut for flight stick 4” Seat w/ 1-1/2” back</td>
<td>13-19077</td>
<td>$84.75</td>
</tr>
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</table>

<table>
<thead>
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</tr>
<tr>
<td>Grey</td>
<td>13-00227</td>
<td>$56.75</td>
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</table>

**SKWOOSH PILOT SEAT**
SKWOOSH™ fluidized gel cushions elieve pressure on the “sitz” bones to help maintain circulation, and reduce numbness and lower back discomfort caused by prolonged sitting. The non-skid bottom makes it easy to stay put, ensuring no movement during use while the low profile (¾”) 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. P/N 13-05827.............$39.99

**SKWOOSH PRO TRAVELER**
SKWOOSH™ fluidized gel cushions relieve pressure on the “sitz” bones to help maintain circulation, and reduce numbness and lower back discomfort caused by prolonged sitting. Non-skid bottom and is maintenance free. SKWOOSH™ cushions are made in the USA and are guaranteed for performance and workmanship. Weight: 8 oz. Open Dimensions: 10½”L x 15½”W x 1”H. Folded Dimensions: 10½”L x 7½”W x 1”H. P/N 13-10284.............$49.99

**SKWOOSH EZ SWIVEL CUSHION**
The SKWOOSH™ All Purpose with EZ Swivel Cushion is lightweight, folds for portability, is less than 1” high and is almost invisible when not in use. The low friction top fabric allows you to swivel freely with little effort while the Non-Skid bottom keeps the All Purpose locked in place. You turn with less effort while the All Purpose stays put. SKWOOSH™ is made in the USA and is guaranteed for workmanship and performance.

P/N 13-18496.............$39.98

**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.

P/N 13-18497.............$49.99

**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 inserting into the pockets located on the back of the front seats. Included diamond adapter attaches to a variety of RAM mounts. Length: 13.25”; Height: 8.25”; Depth: 1”. Inside Wedge Depth: 0.375” - 0.875”.

P/N 11-14362.............$67.99

**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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Blue 2” Booster seat w/ 1-1/2” back</td>
<td>13-02916</td>
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</tr>
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<td>Blue 3” Booster seat w/ 1-1/2” back</td>
<td>13-02918</td>
<td>$83.95</td>
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<tr>
<td>Blue 3” Booster seat w/ 3” back</td>
<td>13-02920</td>
<td>$83.95</td>
</tr>
<tr>
<td>Blue 4” Booster seat w/ 1-1/2” back</td>
<td>13-31855</td>
<td>$83.95</td>
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<tr>
<td>Red 3” Booster seat w/ 3” back</td>
<td>13-02922</td>
<td>$83.95</td>
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<tr>
<td>Child’s Blue 3” Booster cushion</td>
<td>13-02923</td>
<td>$35.65</td>
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<tr>
<td>Child’s Red 3” Booster cushion</td>
<td>13-02924</td>
<td>$38.55</td>
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<td>Child’s Blue 4” Booster cushion</td>
<td>13-02925</td>
<td>$36.80</td>
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<td>Child’s Red 4” Booster cushion</td>
<td>13-31861</td>
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<td>Blue - 4” Seat x 3” back</td>
<td>13-31845</td>
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<td>Red - 4” Seat x 3” back</td>
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</tr>
<tr>
<td>Red - 4” x 1-1/2” back</td>
<td>13-31860</td>
<td>$59.95</td>
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<tr>
<td>Blue - Cut for flight stick 4” Seat w/ 1-1/2” back</td>
<td>13-19077</td>
<td>$84.75</td>
</tr>
</tbody>
</table>

**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 provided 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 Warrior. Available only in Black & Smoke Grey.

**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.

P/N 13-05554.............$229.00

**INFLATABLE LUMBAR SUPPORT**
This inflatable air pillow can be installed just under the seat material and will give you the customized support just where you need it. A convenient palmitice pump and a release valve control the firmness of the lumbar support. The In-Flight Back Support is made of a heavy duty self-extinguishing neoprene rubber, specially designed to pass FAR 23.853 flame-test requirements.

Quantity One .............P/N 13-01501 | $49.75
Quantity Two .............P/N 13-01821 | $81.95
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® SEATING SYSTEMS**

**OREGON AERO® SEAT CUSHION GLASAIR I, II, III**

GlasAir I (Pilot), II, III Left or Right Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>GlasAir I Pilot Left or Right Cushion Set</td>
<td>13-07474</td>
<td>$364.00</td>
</tr>
<tr>
<td>GlasAir II or III Left or Right Cushion Set</td>
<td>13-07475</td>
<td>$364.00</td>
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</tbody>
</table>

NOTE: Cushion set includes: (1) back and (1) bottom cushion. Price per set.

**OREGON AERO® SEAT CUSHION GLASTAR**

Glastar Left & Right Front Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Glastar Left Front Cushion Set</td>
<td>13-07476</td>
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<tr>
<td>Glastar Right Front Cushion Set</td>
<td>13-07477</td>
<td>$453.95</td>
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**OREGON AERO® SEAT CUSHION LANC AIR 320/360/IV PILOT/LEGACY**

Lancair 320/360/IV Pilot/Legacy Left or Right Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Lancair 320/360 Left Front Cushion Set</td>
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<tr>
<td>Lancair 320/360 Right Front Cushion Set</td>
<td>13-07479</td>
<td>$498.00</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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<tr>
<td>Lancair Legacy Left or Right Cushion Set</td>
<td>13-07481</td>
<td>$375.00</td>
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**OREGON AERO® SEAT CUSHION RV-4**

RV-4 Front & Rear Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>RV-4 Front Cushion Set</td>
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<tr>
<td>RV-4 Rear Cushion Set</td>
<td>13-07483</td>
<td>$425.95</td>
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**OREGON AERO® SEAT CUSHION RV-6**

RV-6 Left or Right Cushion Set un-upholstered cushion core.

<table>
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<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>RV-6 Left or Right Cushion Set</td>
<td>13-07484</td>
<td>$321.95</td>
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<tr>
<td>RV-6 Left or Right Cushion Set 2&quot;</td>
<td>13-07485</td>
<td>$321.95</td>
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**OREGON AERO® SEAT CUSHION RV-7/RV-9**

RV-7/RV-9 Pilot and Co-Pilot Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV-7 Pilot or Co-Pilot Cushion Set</td>
<td>13-07486</td>
<td>$343.00</td>
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<tr>
<td>RV-9 Pilot or Co-Pilot Cushion Set</td>
<td>13-07487</td>
<td>$321.95</td>
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**OREGON AERO® SEAT CUSHION RV-8**

RV-8 Front and Rear Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>RV-8 Front Cushion Set</td>
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<td>$453.95</td>
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<tr>
<td>RV-8 Rear Cushion Set</td>
<td>13-07489</td>
<td>$321.95</td>
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</tbody>
</table>

**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 is available for individuals who need raised up. See www.aircraftspruce.com for available sizes.

**Color**

- Burgundy
- Blue
- Teal
- Beige
- Black
- Gray
- Charcoal

**Non-Skid Strips**

- 1” wide x 10” long strips of black webbing with black non-skid rubber

**Straps**

- Best option if using Cushion Base for one purpose
- One-inch straps with adjustable buckle

**Color Non-Skid Strips Price Straps Price**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burgundy</td>
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<td>$224.95</td>
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<td>Blue</td>
<td>13-08611-2</td>
<td>$224.95</td>
<td>$224.95</td>
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<tr>
<td>Teal</td>
<td>13-08611-3</td>
<td>$224.95</td>
<td>$224.95</td>
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<tr>
<td>Beige</td>
<td>13-08611-4</td>
<td>$224.95</td>
<td>$225.95</td>
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<td>Gray</td>
<td>13-08611-5</td>
<td>$225.95</td>
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<tr>
<td>Charcoal</td>
<td>13-08611-6</td>
<td>$224.95</td>
<td>$224.95</td>
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<tr>
<td>Black</td>
<td>13-08611-7</td>
<td>$224.95</td>
<td>$224.95</td>
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**OREGON AERO® SEAT CUSHION RV-7/RV-9**

RV-7/RV-9 Pilot and Co-Pilot Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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</thead>
<tbody>
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<td>$321.95</td>
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**OREGON AERO® SEAT CUSHION RV-8**

RV-8 Front and Rear Cushion Set un-upholstered cushion core.

<table>
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<tr>
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<tbody>
<tr>
<td>RV-8 Front Cushion Set</td>
<td>13-07488</td>
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</tr>
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<td>13-07489</td>
<td>$321.95</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 is available for individuals who need raised up. See www.aircraftspruce.com for additional sizes.

**Color**

- Burgundy
- Blue
- Teal
- Beige
- Black
- Gray
- Charcoal

**Non-Skid Strips**

- 1” wide x 10” long strips of black webbing with black non-skid rubber

**Straps**

- Best option if using Cushion Base for one purpose
- One-inch straps with adjustable buckle

**Color Non-Skid Strips Price Straps Price**

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<td>Burgundy</td>
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<td>Teal</td>
<td>13-08611-3</td>
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<tr>
<td>Beige</td>
<td>13-08611-4</td>
<td>$224.95</td>
<td>$225.95</td>
</tr>
<tr>
<td>Gray</td>
<td>13-08611-5</td>
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<tr>
<td>Black</td>
<td>13-08611-7</td>
<td>$224.95</td>
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**OREGON AERO® SEAT CUSHION VELOCITY**

Velocity Cushion Set un-upholstered cushion core.

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<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>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Un-upholstered CH601 Left cushion</td>
<td>13-07491</td>
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<tr>
<td>Un-upholstered CH601 Right cushion</td>
<td>13-07492</td>
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<tr>
<td>Un-upholstered CH701 Left cushion</td>
<td>13-07493</td>
<td>$301.95</td>
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<tr>
<td>Un-upholstered CH701 Right cushion</td>
<td>13-07494</td>
<td>$301.95</td>
</tr>
</tbody>
</table>

**WWW.AIRCRAFTSPRUCE.COM**
SEAT COVERS – SUN VISORS

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.

DESCRIPTION

PILOT ARMOR™ GENERAL PURPOSE SUNSHADES
This general purpose sunshade provide "spot relief" on windows of any size. They are easily attached and removed to provide sun and glare protection wherever you need it. Made of commercial grade exterior polyester blended Sun Protection screen that has been treated and sealed with a reflective polymer which gives the fabric its protective features. Excellent solar protection-eliminates up to 86% of the sun’s rays, excellent thermal reflective features. Will not damage acrylic windows. Full custom sets available, call us at 877-477-8986.

PICTURE

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 windscreen or side windows. A great lowcost investment to save your interior condition received prior to order. 

PICTURE

COLORS AVAILABLE

Note: These are priced and sold individually. Made in the US, our finest quality, 100% pure Australian merino sheepskin seat covers. Tailored from our exact current blueprints, or customized to your specifications, no matter what type of seat, the fit is perfect. Super plush, 1” thick sheepskin adds the greatest comfort, durability and protection for your seats. Hidden straps and elastic borders completely secure covers to seat. Available in 14 colors, shown below. Warranty: 4 years craftsmanship, 2 years materials. Fire testing compliance as per FAR 23.853

BONZAN/BOAR ADJUSTABLE SUN VISORS
Aerospace construction means they work flawlessly, plus they are very adjustable. Rotate them up and down, turn to cover the side window, slide them in and out for coverage where you want.
P/N 05-03434 ..... $432.00

SUNGUARD SLAP ON SUN VISOR
Sunguard is a transparent polymer, that will statically attach to any smooth surface (windows in cars, boats, aircraft, RV’s and homes). It is available in “olive green” tinted shade and absorbs approximately 78% of the light spectrum. 
6X9 ................. P/N 13-08666 .................. $4.65
9X12 .............. P/N 13-08667 .................. $7.95

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 and glare in a variety of applications. 
The RAM-B-166-326-VIS-10U 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.

P/N 11-13586 ........ $68.15
1” Ball Only ............ P/N 11-14911 ........... $35.49

DESCRIPTION

YOU CHOOSE SIZE PART NO. PRICE

6x9 ................. P/N 13-08666 .................. $4.65
9X12 .............. P/N 13-08667 .................. $7.95

Rocky Mountain Sheepskin Seat Covers
Order a sample then return it for a full credit after you have selected a color and ordered your seat cover. 

P/N 05-03553 ........ $513.00

Call for a price.

Superlamb Sheepskin Seat Covers (pair) ........... P/N 7736........................ $513.00
Superlamb Sheepskin Samples - Order a sample then return it for a full credit after you have selected a color and ordered your seat cover.................................. P/N 13-05553 .................. $50.00

COLORS AVAILABLE

Black Honey Tan Navy Oak Charcoal Metallic Blue Creme Silver Oyster Natural Bamboo Beige

Please note: These are priced and sold individually. Made in the US, our finest quality, 100% pure Australian merino sheepskin seat covers. Tailored from our exact current blueprints, or customized to your specifications, no matter what type of seat, the fit is perfect. Super plush, 1” thick sheepskin adds the greatest comfort, durability and protection for your seats. Hidden straps and elastic borders completely secure covers to seat. Available in 14 colors, shown below. Warranty: 4 years craftsmanship, 2 years materials. Fire testing compliance as per FAR 23.853

Start

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

P/N 05-03553 ........ $513.00

Call for a price.

Superlamb Sheepskin Seat Covers (pair) ........... P/N 7736........................ $513.00
Superlamb Sheepskin Samples - Order a sample then return it for a full credit after you have selected a color and ordered your seat cover.................................. P/N 13-05553 .................. $50.00

COLORS AVAILABLE

Black Honey Tan Navy Oak Charcoal Metallic Blue Creme Silver Oyster Natural Bamboo Beige

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Start

PICTURE

PICTURE
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 transparent sun visors which rotate and extend to offer complete cockpit protection form the sun. The oversized, tinted lenses 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).

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<thead>
<tr>
<th>Aircraft</th>
<th>Part No.</th>
<th>Price</th>
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<td>BEECH - Bonanza/Baron, standard</td>
<td>7568</td>
<td>$363.00</td>
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<tr>
<td>Bonanza/Baron 2- Ass replacement lens</td>
<td>13-06172</td>
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<td>Bonanza/Baron 3rd Ass option</td>
<td>7311</td>
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<td>Otera</td>
<td>7738</td>
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<td>Visor</td>
<td>13-01027</td>
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<tr>
<td>King Air 200 Monoral with visors (not for A200)</td>
<td>12-1278</td>
<td>$1,201.00</td>
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<td>MOONEY - 1968 and later models original visors mounted on right or left side (not on center post)</td>
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<td>Arrow Mountain System</td>
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<td>Chevrons Monoral system w/visors</td>
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<td>Removable Universal Monoral Mount</td>
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<tr>
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<tr>
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<td>$389.00</td>
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<td>$399.00</td>
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<td>177c, 317, 318</td>
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<tr>
<td>177c, 317, 318</td>
<td>7307</td>
<td>$1,550.00</td>
</tr>
</tbody>
</table>

ROSEN SUN VISOR SYSTEM

FIG. A

FIG. B

SUN VISORS

DIN-IT MOVABLE VISOR

You can keep moving your head to stay in the shade of your visor, or you can get a DIN-IT visor and move it to where you want it. It’s a 6”x12” sheet of tinted Lexan that can be positioned on any window in the cockpit by means of the attached vinyl suction cup. (An optional self-adhesive adapter plate lets you attach it to porous surfaces as well.) Completely transparent and distortion-free.

DIN-IT Moveable Visor ...............P/N 7172 .......$7.95

Adapter (for porous surfaces)........P/N 7113 .......$4.85

MINI DIN-IT

Diminishes the intensity of direct sunlight, glare, and reflections. This little visor is made of high strength tinted Lexan and is distortion-free. Place the suction cup on window/ wind shield and press.

P/N 13-01758 .......$6.95

ADJUSTAVISOR

The Adjustavisor, a clip-on unit that virtually doubles the effective range of stock visors, adds comfort and enhance vision at dusk, after sunset, when scotopic vision is used. DeGroff, to reduce, high-altitude and ocular media small-particle scatter.

ROSEN VANS RV 6-7-9 ARC SUNVISOR

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

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
**SUN SHIELDS – CANOPY COVERS**

Kennon Super Sunshields

The most durable sun shield on the market has a clear polyester coating to protect the plexiglass windows. Heat can permanently damage the interior avionics in your aircraft. The secret is a material with two surfaces of aluminum separated by trapped air. This combination reflects 97% of radiant heat, an insulation value of R-9 equivalent to two inches of fiberglass. Kennon Extra Firm shields fit snugly, and maintain their shape for a tight fit. They install in no time, and roll up for storage in compact, water-repellent bags. Weight is 1 lb. Available for most aircraft, specify year, make and model. For custom shields, specify exact size of windshield & windows. Also available for cars. Fabric edging insures snug fit & durability.

G GENERAL A V I A T I O N .................. P/N 13-01071 ...... $248.95

Business Class.................................................. P/N 13-01071 ...... $207.95

Piper Sunvisor Catches

Many Piper aircraft have the same problem. The sun visors catch lose to stability, because the UV effect allows the plastic to become porous. These Piper Sunvisor Catches are made from a blended poly-plastic with a UV additive that will prevent UV corrosion. A set contains two pieces with the required plastic rivets. They are available in white and black (used in Piper PA-38 Tomahawk). The set for the Piper Tomahawk contains two extra rivets. White........... P/N 13-04187 .......... $33.85

Black........... P/N 13-04188 .......... $33.85

Kennon Cowl Plugs

Kennon Cowl plugs are constructed from red Aqualon over 2” thick foam and feature a binding around the outer edge of each plug so there is a tight seal which fits snugly in the cowl. This cap prevents the plugs from slipping inside the opening. A safety strap goes around the prop so if by chance you forget to remove the plugs, the prop will remove them for you. These cowl plugs install easily and comes with their own storage bag. Specify aircraft make, model & year when ordering. Include aircraft registration number to be printed on plugs at no extra charge.

Single engine plugs........... P/N 13-06212 ...... $249.95

Twin engine plugs............ P/N 13-06212 ...... $150.00

Custom Fit Cowl Plugs

Cowl plugs are tailored to fit popular Cessna single engine aircraft. High visibility yellow closed cell foam will not retain moisture. Printed on one side is “Removable 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. C-152 (2 Holes Only)........ P/N 13-02620 .......... $36.95

C-172 (1965+) .................. P/N 13-02625 .......... $34.95

C-182 (1972.5 - 1989) ......... P/N 13-02630 .......... $36.95

Universal kit w/square inlets (Sqr blocks you cut to fit) P/N 13-02645 .......... $38.00/pr

Kennon Cowl Cap Covers

This small cover goes over the inlets and back onto the cowl about 12 inches. It closes under the spinner with Velcro. There are bungees with hooks on the two rear corners that keep the cover pulled back in place. The material used is Red Sunbrella UV resistant, water resistant and yet breathable. This is a great alternative to plugs that often slide out of the opening or do not wedge straight in the opening due to the inside shape. Comes available with Tail Number identification on a sewn on embroidered patch. Please specify aircraft year, make and model.

Single Engine .......... P/N 13-09884 .......... $250.00

Single Engine with small embroidery..... P/N 13-11958 .......... $250.00

Single Engine with large embroidery..... P/N 13-11959 .......... $250.00

Twin Engine ............................................ P/N 13-09884-2 ...... $500.00

**KENNON CABIN COVER - LOW WING**

Kennon’s Low Wing Cabin Cover covers the top of the cabin, the antennas and the windpops in window areas. Made from Sunbrella which is designed to withstand the sun’s ultra violet rays. Sunbrella is the award winning UV resistant outdoor fabric. It is very soft and breathable so it is safe to use as a year round cover on any aircraft. Each cover is custom built for the specific year, make and model of aircraft. You will be asked for aircraft year, make, model, and registration number when ordering this item. There is an additional cost for the microfiber lining, and the cost varies based on aircraft.

P/N 13-04047 ................. $617.00

**KENNON SUN BLOCKER AIRCRAFT COVERS**

Kennon’s Canopy Cover is constructed from silver WeatherMax. Provide Kennon with antenna measurements and they will tailor the cover so it fits neatly around antenna, OAT boot and ADF wires at no additional charge. Kennon’s deluxe canopy cover is constructed with polyester WeatherMax and lined with anti-grit to prevent sand and dirt from adhering to the fabric and later scratching your windows. Weathermax is an engineered polymer material uniquely designed specifically for constant outdoor use. It is extremely UV resistant and extremely resistant to fading and color loss. This fabric is breathable, abrasion resistant and eliminates static charging. Static charged acrylic windows attract dust and dust scratches. Kennon’s new Anti-Grit lining helps reduce static and further helps prevent scratching.

See www.aircraftspruce.com for Kennon Color Chart.


P/N 13-04450-D.................. $650.00

**LOW WING WITH 2 SIDE WINDOWS**

This is for a 4 seat plane

Deluxe .................. P/N 13-04451-D .......... $650.00

Deluxe .............. P/N 13-14149-A .......... $425.95

**LOW WING WITH 3 SIDE WINDOWS** – Earlier than 1971 Piper Cherokee VI, Piper, PA28 181, 200, 235 incl. Arrow, Archer & Warrior, Dakota, Aerospatiale, Trinidad, Tobbago, Piper Commanche (Some but not all...ASK), Aztec, Apache, Cesna 310 (exception to 2 window rule)

Deluxe .................. P/N 13-14148-D .......... $650.00

**LOW WING WITH 4 SIDE WINDOWS** – Piper Cherokee VI, Lance, Saratoga, Malibu, Seneca, AeroStar, Beech Baron 58, Beech 33, 35, Beech King, Heater (Cockpit), Lear 2500, 3500 (Cockpit)

Deluxe .................. P/N 13-14149-D .......... $650.00

**LOW WING WITH 4 TO 5 SIDE WINDOWS** – Piper Navajo Cheifon, Cheyenne, Cesna 340, 402, 414, 425, 441, Citation, Beech Duke

Deluxe .................. P/N 13-14150-D .......... $800.00

**LANCAIR & ZENAIR CANOPY COVERS**

These custom designed covers for the Lancair 235/320 & the Zenair Zodiac canopy are made of acrylic Sunbrella fabric and are available in blue, grey, or white. The 100% acrylic fabric won’t shrink, fade, or rot. Nylon webbed straps assure secure fit while snap together buckles permit fast adjustment, fastening, and release. Side adjustments provide tight fit. These covers will protect your avionics and interior from sunlight and heat damage. Color: Blue.

Lancair Blue Canopy Cover ............... P/N 13-14110 ........ $650.00

Zenair Blue Canopy Cover .............. P/N 13-14140 ........ $650.00

**BRUCES INSULATED HANGAR BLANKET**

Solar Insulated Blanket

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. Color red.

High Wing, 2 Place P/N 13-21100 .......... $245.00

High Wing, 4 Place P/N 13-21103 .......... $290.00

Low Wing, 2 Place P/N 13-21101 .......... $245.00

Low Wing, 4 Place P/N 13-21104 .......... $290.00

**BRUCES BLIND RING**

20.5” Diameter

Price Subject to Change Without Notice

988 WWW.AIRCRAFTSPRUCE.COM
Canopy Covers help reduce damage to your airplane's upholstery and avionics caused by excessive heat, and 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 windshields and acrylic finishes. Other colors are available. Please contact us for availability and price. Light weight material available.

### BRUCE'S CUSTOM WING COVERS

BRUCE'S CUSTOM WING COVERS are a perfect solution to protect your paint from sun damage and prevent water frost, snow, ice build-up, and corrosion. They are made from Solution-Dyed Polyester or Acrylic Sunbrella and form-fit to slip around each wing tip, cover the entire upper surface of the wing and wrap around the leading and trailing edges. The covers secure under the wing with adjustable straps at the leading edge to the trailing 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. High Protection version can be made. Set of 2.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<td>Canopy Cover Diamond Da40</td>
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<td>Canopy Cover Diamond Da40, Kestra, Eclipse</td>
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<td>Canopy Cover Grumman AA</td>
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<tr>
<td>Canopy Cover Lancair Columbia 300, 350, 400</td>
<td>13-15279</td>
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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 build-up, 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 Half Protection version can be made. Although these covers are bulky, they do help protect your wing cover surfaces against small to medium-size hail. **Set of 2 - Winter Use**

<table>
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<th>Description</th>
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</table>

For more information, please visit our website at WWW.AIRCRAFTSPRUCE.COM.
### BRUCE’S CUSTOM COVERS

#### BRUCES 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.

#### BRUCES CUSTOM HEATSHIELDS

Heatshield Interior Reflectors are made of a special laminate of metalized 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.

#### BRUCES CUSTOM ENGINE INLET PLUGS

Engine Inlet Plugs are custom fit for your intake, 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.
**FUEL MATS – FUEL INDICATORS**

**POLYURETHANE WING FUEL MAT**

This polyurethane wing fuel mat can be easily cleaned with soap and water. Avoid spraying product with silicone or wd-40 type products because this material will cause 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 dimensions are subject to +/- 1/8 tolerance.

- **Service range:** -20°F to 200°F
- **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 absorbing polyurethane. Chemical resistant with the exception of MEK.

**FUEL STICKS**

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 also 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 fuelings. These handy devices offer the answers to these very important questions:

1. **How many gallons of usable fuel are remaining in the tank?**
2. **How much fuel can be added without going over gross weight?**
3. **Are the aircraft fuel gauges working & accurate?**

**FUELING / ENGINE ACCESS WING MATS**

Please specify colors when ordering: Red, Light Blue, Royal Blue, Black, Green, Yellow and Safety Orange. Features:

- Non-marking · Non-‐abrasive
- Exceeds FAA and military standards · -20°F to 200°F service & operating temperature
- Special design and private labeling available · Approved by all major oil companies, airlines, military and fuel service operations · 3 year warranty

<table>
<thead>
<tr>
<th>Part No.</th>
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<th>Size</th>
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<td>13-1106</td>
<td>Red</td>
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<td>13-1107</td>
<td>Royal Blue</td>
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<td>13-1108</td>
<td>Orange</td>
<td>18” x 24”</td>
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<td>13-1109</td>
<td>Yellow</td>
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<td>13-1110</td>
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<tr>
<td>13-1111</td>
<td>Green</td>
<td>18” x 24”</td>
<td>$99.80</td>
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**WING MAT**

This navy blue carpet can be placed on the wing prior to boarding. It will protect both the wing and the aircraft interior. This mat rolls easily for storage in the airplane and an attached elastic band keeps it rolled up. The rubber backing is perfect for use on low wing aircraft. Two sizes available.

- **Small Wing 10.5” x 36”**
  - $19.70
- **Large Wing 21” x 48”**
  - $48.65

**DIRECT FUEL LEVEL INDICATORS**

These Direct Fuel Level Indicators are quality made of flexible 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 in the aircraft fuel gauges working & accurate. For more information, please contact Aircraft Spruce at 800-248-4778.

**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 handy devices offer the answers to these very important questions:

1. **How many gallons of usable fuel are remaining in the tank?**
2. **How much fuel can be added without going over gross weight?**
3. **Are the aircraft fuel gauges working & accurate?**

**THE ORIGINAL FUEL STOP**

The Fuel Stop is a simple tool that snaps onto a standard straw fuel gauge and prevents the gauge from ever slipping into the fuel tank. It is also extremely light and when it is not in use it will 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.

**GOCHECK PREFLIGHT 6 IN 1 MULTI-TOOL**


For more information, please contact Aircraft Spruce at 800-248-4778.

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**Prices Subject to Change Without Notice**

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**WWW.AIRCRAFTSPRUCE.COM**

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**991**
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 stitched complete the set. Please specify aircraft make, model, & serial no. when ordering. P/N 13-01744 .............$106.90

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 13-01745 .............$92.95/eng

INLET PLUGS
These protect your engine from 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 05-04077..........................CALL FOR QUOTE

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 13-017455 .............$92.95/eng

FOAM JET ENGINE COVERS
Custom fit for the intake and exhaust openings, made with heavy-duty vinyl material, and stuffed with a single block of sculpted urethane foam. Engine plugs have the “Remove Before Flight” streamers attached to the face of the plug. BeechJet.............P/N 13-18445 .............$584.00
 Phenom 300..............P/N 13-18443 .............$584.00

ENGINE INTAKE COVER
Protect your engine from natural hazards which could cause serious in-flight problems. This economical design fits practically every single or twin even homebuilts. The lightweight, fire-retardant mesh fabric will not blister or melt. After simple one-time installation of plastic hardware, cover snaps into place and secured with Velcro. Folds for easy storage. Complete with mounting hardware & “Remove Before Starting Engine” streamers. Also available: Bib that allows you to cover additional intakes. Engine Intake Cover ...... P/N 7414 .............$64.85

KUV**IT WHEEL COVERS
A vinyl-coated polyester that is fade resistant and California State Fire Marshall approved (IF-2310). The weave breathes and yet provides 85% shade factor from the sun’s damaging ultra violet rays. It is easy to care for. Simply machine wash and just hang it to dry. The KUV**IT II Wheel Cover is easy to use. Simply place the cover over your tires and adjust the strap to the desired tightness and lock into place. There are 2 sizes for your convenience: Small fits tire size: 5.00 – 515 x 00-6........P/N 13-03158 .............$39.85
 Medium fits tire size: 6.00 – 670-6........P/N 13-03159 .............$43.50

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 reusuable and unaffected by UV, water, or oils. Furnished in 3½”, sections which can be easily cut to smaller sections. P/N 13-02566..........................$25.90

WICKSHEILD
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 .............$34.50

STEARMAN COCKPIT DUST AND RAIN COVER
One of the problems with traveling in your Stearman is the lack of space to haul 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 need to wash 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.
• One discharge weight (box, for side by side RV models) $29.50
• Install in 1/2 to 1 1/2 hours depending on the model.
• 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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<tr>
<td>RV-6, 6A, 7A, 9, 9A</td>
<td>Standard RV TIP-UP 90° W x 25” L</td>
<td>13-05668</td>
<td>$219.75</td>
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<tr>
<td>RV-6, 6A, 7A, 9, 9A</td>
<td>Standard RV Slippr30° W x 25” L</td>
<td>13-05669</td>
<td>$183.75</td>
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<tr>
<td>RV-6, 7, 9</td>
<td>Super RV Slippr 34° W x 35” L</td>
<td>13-09609</td>
<td>$229.00</td>
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<tr>
<td>RV-6, RV-6A, RV-7, RV-7A, RV-9, RV-9A, RV-14, Lancair 320, 360, Pulsar - Plusair III, Sonex, Swift</td>
<td>Designed for the RV-14, 35°Wx 25” L</td>
<td>13-20710</td>
<td>$195.00</td>
</tr>
<tr>
<td>Arion Aircraft – Lighting, Breezer, Cirrus, Classic Sport-S-18 &amp; S-18T, Europa Eveyktor – Eurostar, Glasair- 320 and 360, Lancair - Legacy, Mustang II Sequia Falco - P51, Skykang Sting Sport, Texan, Zenith - Zodiac</td>
<td>Large Universal for larger clear bubble canopies with no center structural members 34° W x 35” L</td>
<td>13-09606</td>
<td>$229.00</td>
</tr>
<tr>
<td>Air Tourer AESL T-6, Alisport LLC Salpine, American Champ 66803/3, Apis Inc Salpine, Citabria, Cozy III &amp; IV, Dynamic WTP, Eveyktor Sportstar, Fasanation D4, Glasair, Nuventure Questair, Rans Coyote II, Rans S-7S &amp; S-6, T-18, Team Rocket F-1, Vans RV 4</td>
<td>Custom made to order shades</td>
<td>13-09666</td>
<td>$257.95</td>
</tr>
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</table>

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 ..................$29.50

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 ..................$17.95

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Price Subject to Change Without Notice
PLANE SIGHTS REMOVE BEFORE FLIGHT

PLANE SIGHTS PITOT TUBE COVERS
Extremely 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 securely in place under all conditions. Weight: 0.14 kg 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 13-05611 .................. $16.95

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 home built .1" tubes up to 7/8" jet probes. 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 or Mooney aircraft, as well as most Piper and many light sport aircraft. P/N 13-05610 .................. $16.95

BLADE PITOT COVER - Aircraft Type: Piston Powered Plane. Forgetting to remove a faded, dull and worn-out pitot tube cover can jeopardize the safety of you and your passengers. And when cold weather prevents you from installing your pinch-and-insert blade pitot cover, ice and snow can contaminate your pitot system. Some blade pitot covers also damage paint when the sleeve is being forced on and off. The highly conspicuous and very durable Blade Pitot Cover is a perfect fit for any aircraft with a blade-type pitot tube or piper gear extension mast. Properly installed, it's guaranteed not to blow off, fade in the sun or wear out for at least two years. Fits Piper, Lancair, some Rockwell, late Grumman, Lake 250, and all other aircraft with a blade-type pitot tube. (As seen on the 2008 AOPA "Get Your Glass" sweepstakes 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 13-06016 .................. $17.95

PITOT TUBE PLUG (5/8") - Aircraft Type: Piston Powered Plane. 5/8" inside diameter vented pitot 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 condensation. This 5/8" Plug Fits Aero Commander, Twin Beach, Bonanza, Cessna 300/400/500, Comquest Series, Grumman, Lear, Mooney, Piper Cheyenne and Navajo aircraft. Weight: 0.04 kg 5/8" 0.625" (15.875mm) ID x 1.85" (47.3mm) P/N 13-06015 .................. $14.95

PITOT TUBE PLUG (3/4") - Aircraft Type: Piston Powered Plane. 3/4" inside diameter vented plug with its unmistakable 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 poly 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, 172, 177, 182, 200 series and 337 models. Weight: 0.04 kg 3/4" 0.75" (19.05mm) ID x 2" (50.80mm) useable length P/N 13-06018 .................. $14.95

LIGHT SPORT PITOT PLUG KIT - Aircraft Type: Piston Powered Plane. Light Sport Pitot Plug Kit provides a perfect fit for many homebuilt pitot tubes, light sport pilot tubes, and aircraft fuel vents. The kit includes several vented plugs so it even works with double-tube systems and is guaranteed not to pressurize your pitot 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 pitot tube plugs, a unique streamer, and two rust-resistant coated triangle rings. WARNING: CHECK WITH YOUR AIME AND CONSULT YOUR OWNER'S MANUAL BEFORE USING A FUEL VENT PLUG. P/N 13-06020 .................. $14.95

PLANE SIGHTS AIRCRAFT MARKERS & 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. Their bright orange covers from damage on the ground and make wing/elevator tips more obvious, preventing hangar rash. Slide these round style covers on for a tight weather resistant fit on Citations and other jets. Weight: 0.04 kg Round, tubular poly cover, 0.310" x 0.450" x 7.000". Long. *Shock cord lanyard not included. P/N 13-06868 .................. $39.75

STATIC WICK COVERS (SMALL ID X7") - Aircraft Type: Jet. Installed and removed in seconds, Static Wick Covers help prevent delays and inconvenience 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 on for a tight weather resistant fit on your Bombardier (Challenger & Global Express) or Hawker/Beechcraft and many other jets. If necessary out with scissors to desired length. Weight: 0.25 kg Fits any small/stick part #’s: Chelon 2-17SC-1, Chelon 2-11SC-1, MIL-9129D, DG17770. Fits Bombardier, Hawker/Beechcraft and others. P/N 13-06777 .................. $39.95

STATIC WICK COVER (SQUARE STYLE) - Aircraft Type: Jet. These Square Style Static Wick Covers protect, usually yellow pronged static wicks from damage on the ground and make wing/elevator tips more obvious, thereby preventing hangar/ramp rash. Slide these square covers on for a tight weather resistant fit on Falcon, Hawk, 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"x0.25"/ID x 3.50" Long. (in stock) (also available by special request, 0.25" length sleeves). Standard two year warranty applies. *Shock cord lanyard not included. P/N 13-06778 .................. $44.95

UNIVERSAL AIRCRAFT MARKER - Aircraft Type: Piston Powered Plane. Highly reflective markers make vulnerable wing and elevator tips visible under all conditions, and their projecting "proximity fuses" warn that something is too close or a damage occurs. Fits all aircraft from Airline to light sport aircraft, including models with static wicks and strobe lights. For aircraft with tip tanks, wing marker opens its cover with a quick tap on the tank. A full set stows easily under most aircraft seats. Once initial fitting is done, the markers can be installed and removed in seconds during routine pre- and post-flight walk-around checks. Weight: 0.08 kg Package Contents: Two (2) corner marker pieces, two (2) harness pieces, four (4) 54" lengths of shock cord with cord hook ends, and four shock cord hook ends for assembly. P/N 13-06503 .................. $159.95

REMOVE BEFORE FLIGHT STREAMER - Blazing yellow color stands out equally well in daylight or darkness under all weather conditions. A cord can be attached to the streamer to the rugged black oxide coated zinc grommet. Ideal for any remove-before-flight application. Weight: 0.03 kg. Streamer: 12.25" long x 2" wide, two metal rings included. P/N 13-06512 .................. $13.95

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 way 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 .................. $39.95


Static prices subject to change without notice.

Visit www.aircraftspruce.com for the full selection of PLANE SIGHTS products.
BANNERS – PITOT TUBE COVERS

AIRCRAFT FOR SALE BANNERS
Designed specifically for aircraft use, these banners
slip right over your prop blades, moving in the breeze
to attract attention—but will not rub against painted
surfaces. Each banner is 5’ x 23”, made of heavy-duty,
rubberized Nylon that is weather-resistant and resists
tearing. Sold as a set of 2.
P/N 5412..........................$27.60

PROPELLER MOUNTED BANNERS

FOR SALE PROP BANNER
Consists of three pieces. Each prop banner is 11” high
X 22” long when mounted. Made of RED vinylized
polyester with BOLD WHITE lettering. Unlike prop
banners that are a sleeve which must be slipped over
the prop blade only, these banners are split at the bottom and are held
together with velcro. This allows the banner to be opened up and then
wrapped around virtually ANY structural member of the aircraft.
P/N 13-06014..........................$38.50

AIRCRAFT SPRUCE PROPELLER CARD

SLIP ON PITOT COVER - Slip fit
over 1/4” or 1/2” dia. pilot. Red
Remove Before Flight streamer attached. Made of flame-
proof/weather-resistant. National Aerospace material.
P/N 13-12800..........................$1.35

ROUND CESSNA PITOT COVER -
This prop cover is designed to fit
the blade style pitot common
found on Piper aircraft. Small
vent hole prevents pressurizing system.
P/N 5139.............................$9.50

PIPER PITOT COVER - This
pitot cover is designed to fit
the blade style pitot common
found on Piper aircraft. Small
vent hole prevents pressurizing system.
P/N 15220..........................$6.95

REMOVE BEFORE FLIGHT RIBBON
This 3”x24” bright orange streamer with
black letters features a grommet for a C
ring to attach to anywhere on the aircraft.
P/N15220..........................$11.95

DO NOT TOW STREAMER
17” Streamer, attach with Veloce, Color interna-
tional orange. P/N 13-02004..................$12.85

ASA REMOVE BEFORE FLIGHT BANNER
A bright red heavy nylon banner that can be
fastened to anything that needs removing
before flight. Comes with a grommet and
wire ring that can be attached to everything
from gear pins to gust locks and pitot cov-
ers. Heavy duty vinyl is tear resistant.
P/N 15220..........................$6.75

ASA PITOT TUBE COVERS
Fit snugly over standard aircraft pitot tubes, and
are vented to avoid pressurizing the pitot static
system. Critical to safe operations, the cover
keeps dirt, contamination, and insects from enter-
ing the pitot tube. A “remove before flight” streamer
hangs off the cover as a prominent preflight reminder to pilots. Molded
in the United States, the cover uses a heavy duty plastic material.
Pipe Tube Cover 5/8” (small) P/N 13-02037..........................$13.85
(Fits: Cessna 150,152,177,182,200 series, Skymaster & the Falcon Jet)

FUEL CAP COVER
The STAY SEALED cap is a patented fuel cap cover that locks onto the existing
factory cap and seals to the surface of the wing. Designed to test against heavy
rains, strong winds, high temperatures, and extreme cold. It sealed out melting snow and ice, blowing rain and water
from aircraft washing. “To be used anytime the airplane is stored outside.
The device MUST BE REMOVED BEFORE FLIGHT.
Model SSCC fits the following: Cessna Series: 152, 172, 182, 206, 207, 210. Fitted with the raised metal fuel cap...
P/N 05-03662..........................$48.85
Model SSPC fits the following: Cessna 120,140,150,172 with recessed
fuel filler opening ........................................P/N 05-03668..........................$48.85

“REMOVE BEFORE FLIGHT” PITOT COVER

FUEL VENT COVER
The fuel vent cover is designed to fit most fuel vents, and will not
pressurize the fuel system. The ribbon is nylon with a vinyl coating and
silkscreened letters.
P/N 13-02817..........................$9.95

REMOVE BEFORE FLIGHT STREAMERS
Red “REMOVE BEFORE FLIGHT” Streamer with white letter-
ing. Measures 2” wide and 17-1/2” long.
2” X 17”..............................P/N 13-16538..........................$5.75
3” X 31”...............................P/N 13-11731..........................$8.50

3’ X 21” White on Orange P/N 13-16572..........................$6.95
3: X 21” Black on Yellow P/N 13-16573..........................$7.50
3’ X 21” White on Pink P/N 13-19013..........................$6.50

BLADE PITOT COVER
Fits Piper, Katana, some Rockwell, and late Grumman aircraft.
P/N 13-02379..........................$13.85

KEY CHAINS

PROFLIGHT AIRCRAFT KEY CHAINS

Prices Subject to Change Without Notice
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..........................** $5.35

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. The SPC-102 is designed to fit an aircraft with two static port 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 lightgauge red anodized aluminum easily conforms to virtually any surface contour  
- Adjustable to allow for attaching lever cups on or around decals and pin striping  
- 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 lightgauge red anodized aluminum easily conforms to virtually any surface contour  
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- Cups designed to lift up to 40 pounds each

**Supercub Handle Extension Applications:**  
- Piper: PA-20 / PA-22 Pacer / Tri-Pacer
- Maule: M-5 thru M-9
- Family: Stinson: 108 Family  

**Invoice**

**SPC-101** P/N 13-06724..........................$199.75  
**SPC-102** P/N 13-06724..........................$185.75

**Prices Subject to Change Without Notice**

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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.................................$11.75

**ROSEMONT TEMPERATURE PROBE COVER**
High Quality Cover for Temperature Probe. Applications:
- Cessna Citation Bravo: 650
- Learjet: 31, 35, 40, 45, 70, 75
- Hawker: 4000
- Bombardier Challenger: 601, 604, 300

P/N 13-18383.................................$19.95

**PITOT COVER FOR PIPER AIRCRAFT**
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems. Applications: Piper aircraft and small general aviation.

P/N 13-18385.................................$19.95

**UNIVERSAL PITOT COVER**
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems. Applications: Small general aviation aircrafts.

P/N 13-18384.................................$19.95
P/N 13-18384-R..............................$19.95

**LEARJET PITOT COVERS**
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.

- Learjet 25, 31, 35, 36 series
  - Left .................. P/N 13-18386 ......................$29.95
  - Right ............... P/N 13-18386-R ..................$29.95
- Learjet: 40, 45, 60, 70, 75
  - Left .................. P/N 13-18387 ......................$28.95
  - Right ............... P/N 13-18387-R ..................$28.95

**CIRCULAR STATIC WICK COVER**
Circular Tube Static Wick Covers with streamer remover before flight. Protects aircraft static wicks and personnel from injuries on ground and makes wings elevator more obvious preventing hangar rash. Applications: Embraer Phenom 100, Phenom 300, Learjet series, Citation series and more.

P/N 13-18388.................................$47.50

**SQUARE STATIC WICK COVERS**
Rectangular Tube Static Wick Covers with streamer remover before flight. Protects aircraft static wicks and personnel from injuries on ground and makes wings elevator more obvious preventing hangar rash. Applications: Falcon 20, 50, 900, 2000, Hawker 125-400, 125-700, 125-800, Beechjet 400A, Learjet series and more.

P/N 13-18389.................................$50.00

**PILATUS PC-12 COVERS**
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.

**Pitot Covers**
- Left .................. P/N 13-18393 ......................$26.95
- Right ............... P/N 13-18393-R ..................$26.95

**Angle of Attack Covers**
- Left .................. P/N 13-18392 ......................$19.95
- Right ............... P/N 13-18392-R ..................$19.95

**REMOVE BEFORE FLIGHT PITOT TUBE COVERS**
Before Flight Pitot Tube Covers. 5/8" or 3/4" ID Vinyl Cover.
- 5/8" .......................... P/N 05-12646 ..................$8.95
- 3/4" .......................... P/N 05-12645 ..................$8.95

**UNIVERSAL REMOVE BEFORE FLIGHT PC-100U PITOT COVER**
Before Flight Pitot Cover. Universal size, All Vinyl. Fits All Tube Type Pitots.

P/N 05-12660 ..................$9.95

**REMOVE BEFORE FLIGHT**
Before Flight 10" Flag with Ring

P/N 05-12661 ..................$7.95

**REMOVE BEFORE 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 ..................$29.50

**Prices Subject to Change Without Notice**
UNIVERSAL CONTROL LOCK
Stainless steel construction with silicone rubber to protect aircraft interior and folds into small package for easy storage. Installs in seconds from the pilot seat and fits most aircraft with a control column. Other control locks are not required like the Cessna provided. Cannot get your feet on the Pedals to taxi aircraft and keep the elevator in the nose down position.

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.

Control lock cessna or any aircraft with control spacing of 14”-19”.........................P/N 13-02085......................$76.75
Mooney.................................P/N 13-03164......................$77.95
Cessna 210...............................P/N 13-03165......................$81.95
Cessna 206...............................P/N 13-03166......................$81.95
Skymaster..............................P/N 13-03167......................$77.95

KENNON GUST LOCKS
Soft Gust Lock secures flaps, ailerons, the elevator or the rudder. It is made from special weather resistant, high density, closed cell foam with a nylon eyebolt. It is adjustable and will not scratch the plane’s surface, and includes a “Remove Before Flight” streamer & storage bag.

Disigned for use with control surfaces up to 6-1/2” thick. Looks O.D. 3”.

P/N 07-01329.............................$27.75

PAD-LOK CONTROL SURFACE LOCK
Like it says, a padded lock. Effectively locks control surfaces while the padding compresses to the proper configuration and prevents the surface finish. Padding won’t absorb water. Hard-to-miss Dayglo color, plus yarm streamers. Wt. 10 oz.

P/N 13-22700............................$17.95

THE CONTROL SAVER
The Control Saver control lock was designed for Piper and Mooney aircraft to protect aircraft controls in high wind gusts. It holds the ailerons in the neutral position and stabilizer in the down position. This control lock is light weight, easy to use and fits in an area as small as your shirt pocket. Sold to thousands of Piper and Mooney owners worldwide.

P/N 13-15005............................$39.95

SAF-T-STOP
Safe-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, 307. Not a seat lock. Safe-T-Stop is designed to restrict rearward motion if the seat lock fails.

P/N 13-18510............................$44.85/pr

AILERON & RUDDER SOFT LOCK
The Aileron & Rudder Soft Lock is made out of a durable foam that will not scratch your paint. Slides in gap between rudder and vertical stab. Keeps rudder from moving while plane is on the ground. Comes with “Remove Before Takeoff” flag. Patent Pending.

P/N 13-11615............................$38.75

LIGHT SPORT CONTROL LOCKS
These control lock is easy to install and positively locks the ailerons and elevator of the aircraft models listed below. This Gust lock is manufactured using 6061T6 aluminum. The control stick clipping portion has a protective sleeve to prevent damage to special control handles. The latching mechanism is tow locking buttons that cannot lose 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.

PIPERSPORT / SPORTCRUISER CONTROL LOCK CL200 LONG - Eligible Aircraft Models: Pipersport and SportCruiser only.

P/N 13-11304.............................$58.75

VANS RV12 CONTROL LOCK CL230 LONG - Eligible Aircraft Models: Vans RV12 only.

P/N 13-12729.............................$83.95

VANS RV LSA CONTROL LOCK CL100 SHORT - Eligible Aircraft Models: most Van’s RV’s and many other LSA aircraft, as well as the Stearman PT17.

P/N 13-11299.............................$83.95


P/N 13-11118.............................$85.75

HUSKY CONTROL LOCK CL110 SHORT - Eligible Aircraft Models: Husky only.

P/N 13-21226.............................$83.50

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 work on this problem.

Eligible Aircraft Models:

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV-6, 6A, 7A, 8A, 9A</td>
<td>05-12368</td>
<td>$189.00</td>
</tr>
<tr>
<td>RV-8, 9A</td>
<td>05-12433</td>
<td>$189.90</td>
</tr>
<tr>
<td>RV-10, 10A</td>
<td>05-12444</td>
<td>$209.95</td>
</tr>
</tbody>
</table>

REMORIE 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.

Eligible Aircraft Models:

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA-28 1968-97</td>
<td>13-12726</td>
<td>$39.95</td>
</tr>
<tr>
<td>PA25 1997-Current</td>
<td>13-12727</td>
<td>$39.95</td>
</tr>
<tr>
<td>PA32 1968-97</td>
<td>13-12728</td>
<td>$39.95</td>
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<tr>
<td>PA32 1997-Current</td>
<td>13-12729</td>
<td>$39.95</td>
</tr>
<tr>
<td>PA-28-61 Bowiele</td>
<td>13-15505</td>
<td>$39.95</td>
</tr>
<tr>
<td>Mooney</td>
<td>13-20663</td>
<td>$39.95</td>
</tr>
</tbody>
</table>

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 clasp 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 bungee will absorb the clamping pressure.

P/N 13-10434.............................$31.90

Prices Subject to Change Without Notice
# AEROSPACE ACCESSORIES

## 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 13-01512 ........................................... $49.85

## 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 ............... $80.75

## 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

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Command 112 / 114</td>
<td>13-32730</td>
<td>$234.95</td>
</tr>
<tr>
<td>Mooney, Grumman Goose, Maule (Tricycle gear &amp; Seaplane) PA-23, &amp; Grumman American, Myers 200 &amp; Commander200</td>
<td>13-00863</td>
<td>$259.95</td>
</tr>
<tr>
<td>Cesna Single engine 150 &amp; 172's, Helio Courier, E95, E99</td>
<td>13-00864</td>
<td>$254.95</td>
</tr>
<tr>
<td>Cesna Single engine 180, 206 &amp; 210's fixed &amp; retract gear &amp; Cesna 337</td>
<td>13-00865</td>
<td>$269.95</td>
</tr>
<tr>
<td>Cesna Twins except 337 &amp; 310</td>
<td>00-00329</td>
<td>$234.95</td>
</tr>
<tr>
<td>Aerostar, Commander 500, Beech Baron, Bonanza, Duke &amp; 18/24, C-172</td>
<td>13-32750</td>
<td>$249.95</td>
</tr>
<tr>
<td>Cessna Tailwheel, Stinson, Beech Super C</td>
<td>13-32800</td>
<td>$234.95</td>
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<tr>
<td>Lake Amphibian</td>
<td>13-32820</td>
<td>$228.95</td>
</tr>
<tr>
<td>Beech King Air</td>
<td>13-32830</td>
<td>$258.95</td>
</tr>
<tr>
<td>Cessna 310's</td>
<td>13-32840</td>
<td>$266.95</td>
</tr>
<tr>
<td>Aerona Chief 508, Taylorcraft BC 12-D, Stinson 108 &amp; 108-1</td>
<td>13-32850</td>
<td>$234.95</td>
</tr>
<tr>
<td>PA-28</td>
<td>13-32860</td>
<td>$234.95</td>
</tr>
<tr>
<td>Maule (Tailwheel)</td>
<td>13-32710</td>
<td>$229.95</td>
</tr>
<tr>
<td>Piper PA-31, Chieftain, Navajo, Cheyenne</td>
<td>13-32880</td>
<td>$266.95</td>
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<tr>
<td>Socata (Tissand)</td>
<td>13-32890</td>
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<tr>
<td>Seawind</td>
<td>13-32850</td>
<td>$234.95</td>
</tr>
<tr>
<td>De Haviland Beaver</td>
<td>13-00866</td>
<td>$299.95</td>
</tr>
<tr>
<td>Cesna Twins (except 337 &amp; 310)</td>
<td>13-00867</td>
<td>$230.95</td>
</tr>
<tr>
<td>Piper Malibu</td>
<td>13-00869</td>
<td>$299.95</td>
</tr>
</tbody>
</table>

## STICK CONTROL AIRCRAFT

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>J3 w/Shin Knocker Tubes</td>
<td>13-00871</td>
<td>$266.95</td>
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<tr>
<td>J-4</td>
<td>13-11870</td>
<td>$266.95</td>
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<tr>
<td>Piper PA-12</td>
<td>13-00872</td>
<td>$266.95</td>
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<tr>
<td>Piper PA-16</td>
<td>13-00873</td>
<td>$266.95</td>
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<tr>
<td>Piper PA-14</td>
<td>13-00874</td>
<td>$266.95</td>
</tr>
<tr>
<td>Piper PA-15/17</td>
<td>13-00876</td>
<td>$266.95</td>
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<tr>
<td>Piper PA-18 &amp; 18 Shin knockers</td>
<td>13-00877</td>
<td>$224.95</td>
</tr>
<tr>
<td>Piper PA-20</td>
<td>13-00878</td>
<td>$224.95</td>
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<tr>
<td>Cessna 170 &amp; 172</td>
<td>13-00879</td>
<td>$299.95</td>
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<tr>
<td>Husky, Pitts</td>
<td>13-00880</td>
<td>$299.95</td>
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<tr>
<td>Mico</td>
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<td>$299.95</td>
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<tr>
<td>Nanchang CJ-6</td>
<td>13-11872</td>
<td>$266.95</td>
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<tr>
<td>Swift</td>
<td>13-00883</td>
<td>$299.95</td>
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<tr>
<td>RV-6</td>
<td>13-00884</td>
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<td>RV-8</td>
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<tr>
<td>Waco</td>
<td>13-00887</td>
<td>$266.95</td>
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<tr>
<td>Lancair IV</td>
<td>13-00888</td>
<td>$266.95</td>
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<tr>
<td>Luscombe</td>
<td>13-11869</td>
<td>$266.95</td>
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<tr>
<td>Bellanca</td>
<td>13-06114</td>
<td>$266.95</td>
</tr>
<tr>
<td>YAK 52</td>
<td>13-11871</td>
<td>$266.95</td>
</tr>
</tbody>
</table>

## YORK ACCESSORIES

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not throw away warning flag (included with each Gust-Lok™, but also sold separately)</td>
<td>13-00869</td>
<td>$21.50</td>
</tr>
</tbody>
</table>

## PROPLock

PropLock is a simple, yet effective anti-theft device that can be easily installed on any single or twin engine aircraft. Made of lightweight 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, Easy Installed, Nickel Plated Lock Assembly, Effective. P/N 13-20147 ......... $279.00

## THE ALPHA WHEEL LOCK 2000

The Alpha Lock 2000 adjusts to virtually any wheel size in seconds and completely immobilizes the aircraft or vehicle wheel from rotating or turning. The lock is pick and drill resistant and cannot be frozen with freon. Soft, coated arms will not mar or scratch wheels and rims. Furnished in bright red color to warn thieves, weather resistant, and carries a 2-year warranty. Excellent for locking aircraft, autos, trucks, trailers, boat trailers, motorcycles, RV’s, etc.

Locks anything on wheels! Wt: 8 lbs. P/N 13-00436 ............... $151.75

## 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 ........................................... $151.75

## NELSON AILER-LOCKS

- 13” RBF streamer
- Locks flaps, ailerons, elevators, or rudder. Ailer-Lock Large (10")

P/N 13-22705 ........................................... $144.95

## SKIYLOK

Skylock is an inexpensive throttle lock for aircraft with Cessna type pull-push 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 .......... $13.95

## ANTThIEF LOCK FOR BONAZOS

Built for those incomparable Beechcraft. All have FAA STC/PMA as applicable. The rugged, locksmith quality key lock combines forces with hardened steel pins embedded in the lock body that roll to defeat cutting. Bright red color, easy to use, installs in just seconds. Patent Pending.

P/N 05-03435 .......... $309.00

## AIGRIZMO UNIVERSAL GUST LOCK

The AirGizmos Gust Locks are designed to quickly lock virtually any control surface securely. Its bright color and integrated flag reminds you to remove before flight. The rubber cushions ensure that your finish will be protected. They are lightweight and portable. Perfect for carrying in the plane wherever you go.

| Single | P/N 13-06139 | $31.75 |
| 3 Pack | P/N 13-18457 | $89.95 |

Prices Subject to Change Without Notice
FIRE EXTINGUISHERS – RESCUE EQUIPMENT

H3R AVIATION FIRE EXTINGUISHERS
The FAA recommends and requires Halon fire extinguishers on aircraft. H3R Halon fire extinguishers are the extinguishers of choice in the aviation industry. They cause no mess or damage, and do not require taking a plane out of service for clean-up; a costly process for both the aircraft owner and insurance carrier. The heat-seeking quality of the Halon gas makes it a superior fire fighting agent.

DISPOSABLE, LOW-MAINTENANCE HALON 1211-1300 BLEND
Contain a proprietary blend of the “liquid streaming agent,” Halon 1211, and the gaseous “total flooding agent,” Halon 1301. The blend’s power lies in the Halon 1301, which is both a fighting agent and a coolant. Low mainte- nance and non-rechargeable. Lightweight aluminum canister Disposable. Tested to ANSI/UL 711 and UL 1093. Meets DOT requirements. Meets the require- streamings agent,” Halon 1211 also performs remarkably well as a “total coating device,” Halon 1211 also performs remarkably well as a “total

RECHARGEABLE, STURDY INDUSTRY-STANDARD HALON 1211 – Required on commercial transport aircraft. Although classified a “liquid

Prices Subject to Change Without Notice

SAFECRAFT FIRE EXTINGUISHERS
A feature not found on other extinguishers is the “swivel” head design. The discharge head can be rotated to align the pull cable, which provides more installation flexibility. The aluminum fire cylinder is U.S. DOT approved and is capable of being refilled by SafeCraft inc. The extinguisher will accept two separate 2 lb. Halotron 1 extinguishers, and allows installation flexibility currently not found in competing fire extinguishers. White powder coated cylinder with red aluminum anodized head. Designed to be mounted in the “head down” attitude.

RESCUE LASER FLARE MAGNUM™ An hand-held night-time 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 pyrotechnics, 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

OCEAN SIGNAL SAFESEA GMDSS HANDHELD VHF RADIO
The Ocean Signal range of survival craft VHF hand portable radiotelephones exceed the requirements of IMO, SOLAS and GMDSS. Lithium Polymer rechargeable battery option available with rapid charger, for everyday normal use. Fully waterproof, even 400 thermal shock. High efficiency transmitter for maximum battery life. Rugged design exceeds GMDSS environmental requirements. Lithium primary battery for emergency use. Battery protection feature 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% Squeeged.) Laser etched key legends for durability. High contrast, backlit LCD and keypad. Rugged accessory socket option; waterproof to IP68 for use with headsets, helmets, flet mikes, etc. 4 scanning modes, D/W, T/W, scan and memory scan. 21 simplex chan- nels according to IMO SOLAS requirements.

HANDHELD VHF RADIO

ACTIVE EXTINGUISHING LINE
Active Extinguishing Line is totally independent, 1kg, fire extinguishing system from any power source. Its main secret lies in the heat detector in a form of a line made out of special laser predriller polymer, which will react instantly to any source of heat or fire. This line (heat detector) is connected to reservoir containing fire extinguishing agent: hexafluoro- propane FE-36. Inside of the protected device (equipment) a loop made out of the heat detector breaks, creating a mini sprinkler, directly over source of fire or heat, extinguishing it instantly. In a moment of activation the system closed circuit switch collapses sending a signal informing of fire. For experimental aircraft only. Ask for status of pending FAA approval.

3 lb. .................. P/N 13-01634 ........ $83.75
4 lb. Bracket .......... P/N 13-01845 ........ $99.00
5 lb. Bracket .......... P/N 13-01844 ........ $99.85
15 Hour .................. P/N 13-01923 ........ $89.95
72 Hour .................. P/N 13-01924 ........ $83.75

EMERGENCY STROBE

EPA-APPROVED HALOTRON 1™
While it is less powerful pound for pound than Halon 1211, Halotron 1 offers all of Halon 1211’s clean agent benefits, and Halotron 1 is less damaging to the ozone layer. H3R Avionics offers two Halotron 1 fire extinguishers: one FAA-approved unit for aircraft use and one wheeled unit for the flight line/airport. These rechargeable extinguishers have pressure gauges and require a 6-year maintenance and a 12-year hydrostatic test.

www.aircraftspruce.com

999
**SMOKE HOODS - LIFE VESTS**

**PROVITA SMOKE HOOD**
The Provita 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 - in less than 10 seconds. There is no front or back which allows the smoke hood to be put on quickly for panic situations. The rubber seal easily slips over your head and seals - not allowing any smoke through. The smoke hood provides 360 degree vision and 20 vital minutes to escape a smoke-filled room.

P/N 13-11343 ............................................ $189.00

**POCKET SMOKE MASK**
NASA grades high temperature resistance Polyamide Film resists heat up to 932 degrees. The seven layer filter stops and blocks toxic gases made from non-woven and activated carbon fibers. Filters more than 20 minutes of toxic smoke from fire. One size fits all: Adults, Children and Infants. Designed to protect user from smoke in event of a fire. Simply 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 13-17189 ............................................. $39.95

**EAM AIC-35 UNIVERSAL LIFE PRESERVER**
EAM’s Universal Series Life Preserver is designed with an open area collar to be placed over the head and onto the neck and shoulder area, so that the vest rest on the chest of the wearer over 35 lbs. The vest is secured to the user using a harness strap. Inflation is accomplished by either CO2 or oral inflation. Each vest is equipped with a light system assembly. The AIC-35 life preserver is also designed for use on infants and small children weighing under 35 lbs.

10 year ...................................................... P/N 13-19006 ......... $55.75

**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 comes standard. Inflated Buoyancy: 35 lbs. minimum. Approvals: USA FAA TSO-C13f; German LBA Approval No. AR01445. Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity; Storage Range: Up to 95% Relative Humidity; Temperature: -2000 to 45,000 feet above sea level

P/N 13-12679 ............................................. $48.85

**EAM AXF-35 LIFE VEST**
This single cell vest is the lightest weight aviation vest in the world, weighing only: 9 lbs (410 grams). 5 year frequency of inspection comes standard, 10 year version available. TSO-C13f Approved. Inflated Buoyancy: 35 lbs. min. Temperature: -20°F to 120°F (-29.2 to 48.9°C) Humidity: Functional Range: Up to 70% Relative Humidity Altitude: -2000 to 45,000 feet above sea level

P/N 13-12679 ............................................. $46.95

**EAM B/EAV 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 water-activated light, retro-reflective tape and a whistle. Optional storage pouches attach to the waist strap to hold signal kit or other items. Storage comes standard, 10 year frequency of inspection comes standard.

P/N 13-12680 ............................................. $189.00

**REVERE AQUA LIFE JACKET LIGHT**
The AQ40S is a compact flashing life jacket light, automatically water activated by its integral sensors or manually, its unique size and shape, makes the AQ40S ideal for a variety of life jackets.

Sensor Activated: P/N 11-14272 ......... $17.50

Lead Activated: P/N 11-14273 ......... $18.50

**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.

With Co2, ............................................. P/N 13-12681 ......... $89.95

Without Co2, ......................................... P/N 13-12778 ......... $89.95

**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 15 lbs. But can’t be fooled by its size, it carries a load of 300 lbs of weight. This raft will do the job for you under the most adverse condition. It provides a fresh water buoyancy of 190 lbs. per person and a deck area of 3.6’ per person which exceeds all Govt. standards. Inflated, the raft is 46” inside and 68” outside and every square inch has been meticulously made from raw materials and components tested for their durability and life expectancy. Each raft is pressure tested and all seams and adhesive bonds rigorously checked prior to release. Raft includes sea anchor, bailing bucket, hand inflation pump, and CO inflation system. Optional survival equipment shown below: 6-13 person raft is 5’ x 12’ x 14’ and weighs 18 lbs. Available in non-TSO’d and TSO’d versions.

Non-TSO’d 4-6 Person Life Ratt .................. P/N 13-31610 ........ $1,646.00

Non-TSO’d 6-13 Person Life Ratta ............... P/N 13-31660 ........ $2,036.00

TSO’d 4-6 Person Basic Ratt w/o canopy ....... P/N 13-31670 ........ $2,059.00

TSO’d 4-6 Person Ratt w/canopy only ........... P/N 13-31680 ........ $2,922.00

TSO’d 4-6 Person Ratt w/91 equip ............... P/N 13-31690 ........ $660.00

TSO’d 4-6 Person Ratt w/121 equip ............. P/N 13-31700 ........ $2,899.00

TSO’d 4-6 Person Ratt w/135 equip ............ P/N 13-31710 ........ $3,367.00

TSO’d 8-12 Person Basic Ratt w/o canopy ....... P/N 13-31715 ........ $2,742.00

TSO’d 8-12 Person Ratt w/canopy only ........ P/N 13-31725 ........ $3,075.00

TSO’d 8-12 Person Ratt w/91 equip ............. P/N 13-31735 ........ $3,610.00

TSO’d 8-12 Person Ratt w/121 equip .......... P/N 13-31745 ........ $3,674.00

TSO’d 8-12 Person Ratt w/135 equip .......... P/N 13-31755 ........ $4,347.00

TSO raft with FAR91 kit EM ....................... P/N 13-05681 ........ $4,842.00

**SURVIVAL RAFT ACCESSORY EQUIPMENT KITS**
Far 91 Kits includes: canopy with inflatable mast, equipment container, signal flag, 3 signal flares, two cell flashlight with alkaline batteries, first aid kit, raft repair kit, sea dye marker, signal mirror, food rations, water rations, and signal whistle. Far 121 Kits included: all of above plus: magnetic compass, eight pint desalter, fishing kit, 75 ft. retaining line, two paddles and radar reflector.

Far 91 Emergency Kit .............................. P/N 13-31620 ........ $528.00

Far 121 Emergency Kit ......................... P/N 13-31630 ........ $698.00

Far 135 Emergency Kit ............................ P/N 13-31650 ........ $1,297.00

**REVERE COASTAL COMPACT RAFT**
Double 200 lb. SuperHev™ ballast pockets, it enhances stability in rough sea conditions. The light weight allows for easy deployment and the compact size makes stowage easy in the smallest of spaces. Operation is easy. Just open the red flap on the valve 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 With Canopy</th>
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Prices Subject to Change Without Notice

1000
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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, Baller, Signal Mirror, Paddles, Repair Kit, Seaskick Tablets, Flashlight Batteries, Whistle, Sponges. Weight: 13 lbs - Dimensions - Pack 13-18418

1 Person: $1,042.00
2 Person: $1,042.00
3 Person: $1,068.00
4 Person: $1,068.00
5 Person: $1,070.00
6 Person: $1,070.00
7 Person: $1,070.00
8 Person: $1,070.00

REVERE AERO ELITE LIFE RAFTS
The Aero Elite offers both crew and passengers easy usage when facing the stress of a life threatening situation as opposed to other life rafts that can be difficult to lift and transport at the time of need. Vertical bulkheads inside divide the tube into two independent air-holding compartments. If one compartment is punctured, the other keeps you afloat. Offers a spacious 4 square feet per person. Inflatable floor, 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.

1 Person: $1,042.00
2 Person: $2,759.00
3 Person: $2,759.00
4 Person: $2,759.00
5 Person: $2,780.00
6 Person: $2,780.00
7 Person: $2,780.00
8 Person: $2,780.00

SWITLIK INFLATABLE LIFE RAFTS
The Switlik ISPLR brings advanced military design and mission-proven durability to a simple 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 slug floor design allows seating at a slight recline when it automatically inflates. The ISPLR’s low slug floor design allows seating at a slight recline when it automatically inflates. The ISPLR’s low slug floor design allows seating at a slight recline when it automatically inflates.

Pack Contains: 2 Red Hand Flares - USCG/SOLAS

1 Person: $999.00
2 Person: $999.00
3 Person: $999.00
4 Person: $999.00
5 Person: $999.00
6 Person: $999.00
7 Person: $999.00
8 Person: $999.00

REVERE COMFORTMAX™ INFLATABLE PFD - RED TYPE III
Features: USCGC 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.

Color: Red

4 Person: $94.75
5 Person: $94.80
6 Person: $94.80

REVERE PFD RE-ARMING KIT
This manual PFD Rearming Kit for Comfortmax Inflatable PFDs is an instant CO2 manual inflation system.

6 Person: $21.50

REVERE SPORT MAX MANUAL REARM KIT

6 Person: $16.75

EAM TITAN XF LIFE VEST
The Titan XF is carefully designed to offer advanced protection for crew aboard an 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 13-12959 ....... $329.00
Orange With D Rings......... P/N 13-12959 ....... $329.00
Orange Without D Rings.... P/N 13-12959 ....... $329.00

SWITLIK CPR LIFE RAFT WITH PART 91 KIT
SWITLIK’S CPR is designed to be a high quality, lightweight, 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.................... $4,179.00

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 neck area has no Velcro or edge binding to cause chafing or abrasion for all-day comfort.

Kayak: $94.80
Canoe: $94.80
Inflatable: $94.80

EAM SURVIVAL KITS

GIGI

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P/N 13-09401...................... $1,568.00
P/N 13-09402...................... $1,568.00
P/N 13-09403...................... $1,568.00
P/N 13-09404...................... $1,570.00
P/N 13-09405...................... $1,570.00

PRO

P/N 13-09406...................... $1,570.00
P/N 13-09407...................... $1,570.00
P/N 13-09408...................... $1,570.00
P/N 13-09409 .................... $1,570.00
P/N 13-09410 .................... $1,570.00
P/N 13-09411 .................... $1,570.00
P/N 13-09412 .................... $1,570.00

WWW.AIRCRAFTSPRUCE.COM
SURVIVAL EQUIPMENT

SWITLIK TSO-C70A TYPE II OPR
8 PERSON LIFE RAFT

SWITLIK’s OPR is designed to be a high quality, lightweight, 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 ...................... $5,129.00
Part 135 ....................................... P/N 13-21123 ...................... $5,319.00

MUSTANG INFLATABLE LIFE PREServers

INFLATABLE BELT PACK PFD - The Inflatable Belt Pack PFD from Mustang Survival fits around the waist like a belt, staying out of the way until you pull the inflation cord. Redesigned to fit and feel better with a new, modern look.

The ergonomic design conforms to the body to provide a secure and comfortable fit and is made with Mustang’s neoprene Comfort Lining(TM) to reduce chafing when worn against the skin. The PFD operates by manual inflation, meaning it won’t inflate unless you pull the inflation cord. Easy to wear and maintain, it inflates to provide 35lb buoyancy, more than twice the flotation of a traditional foam PFD. A great option for those looking for minimal bulk and wanting to control when their PFD inflates. Recommended for paddlers, paddleboarders, river fishermen and general recreational boaters.

P/N 13-17886 ........................................... $122.75

MUSTANG INFLATABLE PFD REARMING KIT

Designed to rearm your Mustang inflatable after deployment. This is a 1F automatic and 5F Manual Inflatable PFD Re-Arm Kit E.

P/N 13-20153 ............................................ $36.50

MUSTANG INFLATABLE LIFE RAFTS

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 13-12832 ........................................... $332.00

INFLATABLE BELT

Features include reflective tape on the blader for greater visibility, 2" deluxe web belt with buckle, and single point indicator window. Inflates in seconds to over 35 lbs. of buoyancy. One size fits adults over 80 lbs. with 30 - 52" chest size. Will not inhibit your range of motion while hunting or fishing. U S Coast Guard approved Type III. Rearm kit 3MRK.

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  Pen/Pencil Pocket on Left Sleeve  Gusseted Back  Sage Green and Tan Flight Suits are Near Infrared (NIR) Compliant

Color Part No. Prices starting at
Sage Call or visit our website for sizes $184.99
Black $184.99
Tan $184.99

SNUGPAK CHRYSALIS SLEEPING BAGS

Chrysalis is a sleeping bag that has evolved to the next level; putting you in control of temperature and comfort by transforming from a warm, snug sleeping bag, into a cool and spacious one, with a built in LED light to assist you. The bag boasts all the features of a quality Snugpak® mummy-style sleeping bag but the jumbo zip baffle can be opened out to give much more room within the sleeping bag by opening the expander panel. The extra space within the bag allows air to move around the bag, keeping the bag cooler. And if the temperature drops, just zip the bag tighter and instantly boost the warmth around you. The Chrysalis is the ideal sleeping bag for unpredictable conditions. LED Light. Expander Panel System (EPS). Chisel Shaped Foot. For Extra Comfort. Zip Baffle. Anti-Snag Two-Way Zipper. Snugfit Hood. Hanging Dry Tabs.

EXPEDITION - Temperature rating: Comfort: -12°C, Extreme: -17°C.

P/N 13-12457 ........................................... $119.00

P/N 13-12458 ........................................... $139.00

MODEL 3 - Temperature Rating: 23°F to 14°F (-5°C to -10°C). Lenght: 87”. Weight: 56 oz. Width: 30-34”. Pack Size: 9 x 10”.
P/N 13-12459 ........................................... $159.00

P/N 13-12460 ........................................... $179.00

P/N 13-12461 ........................................... $199.00

Prices Subject to Change Without Notice
SURVIVAL GEAR

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. 

- EV-35 Blue .................. P/N 13-12687 ............. $229.00
- EV-35 Orange ............... P/N 13-16185 ............. $229.00

SWITLIK X BACK AIR CREW VEST

The aptly named X-Back is ergonomically fitted to your shoulder contour for a perfect fit. As accessories are added the weight is distributed over your shoulders and off your neck for vastly improved comfort. The adjustable X-Back straps provide enough range making it one size fits all. The MOLLE (Modular Lightweight Load-Carrying Equipment) system lets you customize your vest with the accessories you need. The contoured out 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.

- X Back Blue .................. P/N 13-16288 ............. $379.00
- X Back Orange ............... P/N 13-16186 ............. $379.00

SWITLIK AVIATION LIFE VEST AV-35H

AV-35H Double Cell Airline Passenger Vest. The AV-35H donning style features a waist strap and adjusting buckle without a back panel. The AV-35H donning style features a waist strap with adjusting buckle without a back panel.

- Standard ..................... P/N 13-16031 ............. $69.99
- 5 Year ....................... P/N 13-18410 ............. $76.99
- 10 Year ..................... P/N 13-18413 ............. $76.99

SWITLIK AVIATION LIFE VEST AV-200

The Switlik AV-200 is the latest advancement in airline life vests. Offering a lightweight, compact and inexpensive vest while meeting all the safety features required by the FAA. The AV-200 donning style features a waist strap with a single adjusting buckle. Meets FAA/TSO-C-13f Approval: 2 Year TBO.

- Standard ..................... P/N 13-16032 ............. $44.99
- 5 Year ....................... P/N 13-18411 ............. $49.99
- 10 Year ..................... P/N 13-18414 ............. $54.99

SWITLIK INFANT LIFE

The ILV-20 is a dual chamber, 23-pound buoyancy Infant Life Vest, (FAA/TSO-C33d defines “infant” as a wearer with a weight less than 35 pounds). The underarm configuration allows this vest to be used by wearers whose shorter necks prevent use of the standard “yoke-type” vest.

- Standard ..................... P/N 13-18409 ............. $89.99
- 5 Year ....................... P/N 13-18412 ............. $92.99
- 10 Year ..................... P/N 13-18415 ............. $97.99

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 MOLLE 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 MOLLE system and all its accessories. The pockets attached to the vest are intended to fit your essentials “keys, phone, sunglasses & wallet” (and yes, the newest smart phones will fit) Color: Blue P/N 13-18416 ......... $329.00

SWITLIK ALL PAX LIFE PRESERVER BLUE

- 10 Year .................. P/N 13-18415 ............. $249.00
- 5 Year .................. P/N 13-18412 ............. $199.00
- Standard .................. P/N 13-16032 ............. $169.00

SWITLIK X BACK ALL IN ONE POCKET

The new All-In-One pocket allows you to organize all your equipment into one area. Complete with two zipper pockets, interior MOLLE straps, interior compartments, and a conveniently located pen holder on the outside. Available in left and right.

- Right Side .............. P/N 13-12694 ............. $49.99
- Left Side ............... P/N 13-12695 ............. $49.99

ION FLASHLIGHT FIREFIGHTER™

During outdoor adventures, flights over remote areas, or in any emergency survival situation, there are two pieces of equipment that you never want to be without, a flashlight and a firestarter. Solo Scientific combined the two into one lightweight, compact, powerhouse of a product called the ion Flashlight Firestarter™. The ion Flashlight Firestarter™ is a flashlight, a firestarter, a magnetic tool, has a safety mechanism, is knurled for grip, water proof, shock resistant, and can even be used to cauterize wounds in the field (by qualified medical personnel only).

- The energy efficient ion Flashlight Firestarter™ will work in any environment that will support life and uses a super bright (but energy efficient) white LED for illumination. P/N 13-11695 ............. $118.75

WATERPROOF NOTEBOOK

Durable waterproof, tear-proof notebook with handy survival essentials checklist on back cover. Great for keeping logs in wet environments and pocket-sized to fit anywhere. Pencil included.

- Specifications: 50 page count, Dimensions: 3” x 5”, Weight: 2.6 oz. P/N 11-10522 ............. $3.95
**PROFORCE SURVIVAL PRODUCTS**

**SNUGPAK SOFTIE ELITE 2 SLEEPING BAG**  

**SNUGPAK SOFTIE ELITE 3 SLEEPING BAG**  

**SNUGPAK SOFTIE 9 HAWK 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. Conceived roll away mosquito netting which can be zipped over the face. Temp. Rating: Comfort: 45°F / Low 36°F (7°C / 2°C). Weight: 27oz. Length: 86”. Chest: 65”. Pack Size: 6” x 6” (fully compressed) P/N 13-08783.................................................................$75.65

**SNUGPAK JUNGLE BAG**  
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 back packs. Not intended to be submerged for extended periods of time. Roll-top closure must be closed correctly recommended rolling 3 & 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: 2.28 oz / 60 g P/N 13-08784.................................................................$20.00

**PROFORCE DRISAK**  
Comes with a Repair Kit to allow for repairs while on the move if needed. Door, All seams are taped sealed Alloy Stakes (14 + 2 Spare Stakes), taped. A very impressive small compact tent by anyones standard. 1 Door, All seams are seam taped. No-See-Um-Mesh and all seams are seam taped. A very impressive small compact tent by anyones standard. 1

**PROFORCE DI-SAK**  

**SNUGPAK 13-08779**

**SNUGPAK SOFTIE ELITE 4 SLEEPING BAG**  

**SNUGPAK SOFTIE 9 HAWK SLEEPING BAG**  

**PROFORCE 4 SLEEPING BAG**

**PROFORCE EMERGENCY SURVIVAL BAG**  
The NDUR Emergency Survival Bag comes in a small compact package size but yet opens into a full sized sleeping bag that will fit a fully clothed adult. It is made of a strong insulating material which reflects back 90% of the user’s body heat. It not only helps to provide protection in various weather conditions but also prevents and assists treatment of Hypothermia. P/N 13-08798.................................$8.50

**PROFORCE COMBAT CASUALTY BLANKET**  
The NDUR Emergency Survival Blanket is made of strong insulating materials that reflects 90% of radiant body heat, reversible olive to silver. This large survival blanket provides emergency protection in all weathers and prevents and assists treatment of Hypothermia. Blankets are used as first response for preventing hypothermia in trauma cases. Hypothermia in trauma cases occurs regardless of ambient temperature. Stopping heat loss should begin immediately. It can also be used as a signaling device for easy identification P/N 13-08797.................................$4.35

**PROFORCE BACKPACKER MOSQUITO NET**  
Featherlight and stuff with hanging kit and stuff sack, very compact, single point net for occasional use when backpacking space is at a premium. Fits snugly over single bed. The double strength valance with ten peg loops makes it ideal for outside use with a sleeping bag and pad. Treated with Deltamethrin as recommended by the World Health Organization, for added protection against insect borne diseases such as Malaria, Dengue Fever and Encephalitis. Color is Olive. Weight: 8 oz P/N 13-08791.................................................................$33.15

**SNUGPAK® IONOSPHERE**  
The Ionosphere™ is Snugpak® is an extremely small and compact 1 person tent. The Ionosphere™ has a very low profile and is great for those looking for a 1 person tent to keep out of the elements. Just like The Bunker™, the Scorpion 3™ and Scorpion2™ the Ionosphere™ also has a single entry point, No-See-Um-Mesh, all seams are seam taped. A very impressive small compact tent by anyones standard. 1 Door, All seams are taped sealed Alloy Stakes (14 + 2 Spare Stakes), Comes with a Repair Kit to allow for repairs while on the move if needed. P/N 13-10260.................................................................$194.65

**SNUGNUT**  
The Snugnut is an insulated hat and earmuffs in one. Constructed from the same high performance fabrics and Softie insulation used in our high performance sleeping bags this UK made deerstalker style hat is the ultimate in both day and night cold weather protection for your nut (AKA: Head) and ears. P/N 13-10261.................................................................$44.25

**PILE PANTS**  
Temperature: -25°F / -32°C / -30°C. Team up these pile lined Paratex Light pants with either the Snugpad® 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: 32oz to 37oz (depending on size) P/N 13-10257.................................................................$44.25

**PROFORCE PORTABLE WATER FILTRATION SYSTEM**  
Portable water filtration system replacement filter for the 28oz and 38oz portable water bottle and center. P/N 13-12002.................................$47.85

**PROFORCE PORTABLE WATER FILTRATION RADIOLOGICAL REPLACEMENT FILTER**

**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 strait survival situation.

**PROFORCE MAP COMPASS**  
Map Compass features include: 3 scales, Liquid Filled, Map Symbol Drawing Holes, Lanyard included, Acrylic clear base w/ruler, Rotating Rings, Index lines, and Magnifier. 1.52oz. 5.5 x 2.36 x 4.1. P/N 13-12004.................................$9.95

**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, high technology polyester top and base fabric. GWS patented lightweight, vertically drilled 14kg/m² 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 (503g). Temp Range: 5°F to 130°F (+15°C to +55°C). Color: Olive/Black (reversible). Compacness: 10.25” x 4.75” mid-folded (260 x 120mm) P/N 13-10253.................................................................$84.15

**PROFORCE PORTABLE WATER FILTRATION SYSTEM**  
Portable water filtration system replacement filter for the 28oz and 38oz portable water bottle and center. P/N 13-12002.................................$47.85

**PROFORCE PORTABLE WATER FILTRATION RADIOLOGICAL REPLACEMENT FILTER**
PROFORCE SURVIVAL PRODUCTS

PROFORCE SURVIVAL MATCHES 2PK
Wind & Waterproof safety matches. These matches will burn in the strongest winds and rain for approximately 12 seconds. 25 Matches per sealed plastic tube with striker. Proudly made in England and has an assigned NATO Stock Number 9920-00-966-9432
P/N 13-08792.............................................$8.75

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 Stripes
P/N 13-08794.............................................$10.20

PROFORCE COMMANDO WIRE SAW
The strongest (over 100 lbs breaking strain) and most effective wire saw available. Cuts through wood, plastic, bone and even soft metals. Constructed using 8 strands of interwoven stainless steel wire, will easily reach inaccessible places. Attach rope to split rings on each end to cut higher branches. 24” sawing edge. Can also be used as a snare. Many uses for the outdoor and house. Retail Packaged. P/N 13-08795 ..................$10.50

PROFORCE MARINE SAFETY WHISTLE
P/N 13-08801.............................................$1.35

PROFORCE HEAVY DUTY BUNGEE 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.............................................$6.80

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.............................................$6.80

PROFORCE COMBAT SURVIVAL TIN
Originally designed for the British SAS. Tightly packed in a useful metal tin. Contents include compass, whistle, candle, fishing kit, waterproof survival instructions, wind & waterproof matches, pencil, sewing kit, multi use flexible wire saw w/ split rings (can be used as a bow saw or snare wire), water tablets, safety pins, fire lighting flint and striker and multifunctional knife w/ fold out scissors. Assembled in the US. Contents may vary.
P/N 13-08802 .............................................$28.75

US AIR FORCE SURVIVAL HANDBOOK
Written for use in formal United States Air Force survival training courses, the U.S. Air Force Survival Handbook is the bible for pilots who want to stay alive—no matter what. 692 Pages
Standard Size 8.5” x 11”.........P/N 13-08790.............................................$15.50

RESPONSE PACK
When traveling light, or when you may need to move out in a hurry, it pays to keep all your essential items together, with a place for everything this multifunctional carry case also doubles as a fanny pack, or as the British would call it, a bum bag. We use the same heavy duty materials in the Response Pak as we do in our series of backpacks. The Response Pak has a multitude of hidden internal storage pockets. The Response Pak has quickly become a favorite among military members as a great little red bag, perfect for those vital items each soldier needs. Supplies are NOT included
Olive........P/N 13-10261.............................................$24.65
Black.........P/N 13-10262.............................................$26.50
Coyote........P/N 13-10263.............................................$24.65

THE SNAPPER CANOPY ESCAPE TOOL
The Snapper (Tool for canopy escape to break shards of plastic after flip-over for escape). This tool was developed specifically for the RVs. This little tool could really save the day in the event of a flip over in your RV. We learned that almost all flip overs result in the canopy being broken and cracked. At first glance one would say that is a good thing, and should help facilitate a speedy exit.
P/N 05-12378 .............................................$8.95

BRITE STRIKE ULTIMATE PILOT LIGHTED SURVIVAL KNIFE
The hollow ground blade is hand finished to a razor sharp edge. Spring Assisted Opening is best in class. 45 lumen stainless-steel LED light. The light can be quickly removed from the body of the knife and operated independently. The rare earth magnetic base allows the light to be mounted on the blade for a 90 degree light. A second aluminum mini flashlight w/ red LED is included. Both LED mini flashlights are waterproof IXP-6.
P/N 13-16428 .............................................$124.95

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 .............................................$69.95

BRITE STRIKE BRITE-RESCUE SIGNALING SYSTEM
Brite-Rescue™ is an emergency lighted signaling system. Its ultra-compact size of 1.5” x 5” easily fits into the neoprene pouch and unrolls to 10’ long. It has 6 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 .............................................$69.95

FLIGHT OUTFITTERS PILOT SURVIVAL KIT
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 3m™ Adhesive Back. Six different colors. Includes a strobe setting that can be used for SOS signaling and runs on easy to find low cost AAA batteries.
P/N 13-20665 .............................................$29.95

PROVERSE RESPONSE PACK
When traveling light, or when you may need to move out in a hurry, it pays to keep all your essential items together, with a place for everything this multifunctional carry case also doubles as a fanny pack, or as the British would call it, a bum bag. We use the same heavy duty materials in the Response Pak as we do in our series of backpacks. The Response Pak has a multitude of hidden internal storage pockets. The Response Pak has quickly become a favorite among military members as a great little

www.aircraftspruce.com
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.

Size
Price

Large.................. P/N 13-09814............ $22.50
X-Large............... P/N 13-09815............ $22.50

TACKMASTER PLUS GLOVES
TackMaster Plus is designed to provide superior grip along with dexterity, comfort and durability. The palm is coated with an extra tacky silicone pattern for a secure grip on tools, boxes and windows. The index finger and thumb saddle is reinforced with non-slip in this critical wear area. The terry cloth thumb is made for comfortably wiping away sweat and debris.

Size
Price

Medium............. P/N 13-09816............ $20.85

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.

Size
Price

Medium............. P/N 13-09820............ $25.50
X-Large............... P/N 13-09821............ $25.50

WATERPROOF WINTER PLUS GLOVES
Waterproof Winter Plus is the ultimate winter work glove. 100% Waterproof and windproof, this glove is designed to keep your hands warm and dry without sacrificing dexterity. Triple layer technology of micro-fleece liner, waterproof membrane, and form-fit outer shell. Durable, dexterous, comfortable and warm - if you work or live in cold, wet winters you need this glove.

Size
Price

Medium............. P/N 13-09822............ $35.50
Large............... P/N 13-09823............ $35.50
X-Large............... P/N 13-09824............ $35.50

MAGID ROC GP110 GREY GLOVES
Made from an ultra-soft, grey, high-density, 13-gauge, seamless machine knit nylon blend, the ROC GP110 Work Gloves feature a full black micro foam coating offering exceptional comfort, flexibility, dexterity and added protection to the palm and back of the hand. Micro foam nitrile coating improves upon the softness of standard nitrile while delivering a superior grip in dry or oily conditions. The nylon blended shell is ultra-soft and breathable. In addition to its comfort-enhancing properties, the ROC GP110 Gloves provide protection against cuts and abrasions, offering ANSI Cut Level 1 protection and ANSI Level 4 abrasion resistance. ROC GP110 Gloves have color coded knit wrists with matching color overcasts for easy sorting and dispensing and incorporate a rubber band edge finish to help prevent unraveling.

Size
Price

10............. P/N 13-09637............ $4.95
11............. P/N 13-09638............ $4.95

FLIGHT LEVEL 220 SURVIVAL KITS
Flight Level 220 is a brand built on the importance of having the proper equipment in an emergency situation. Safety and survival start with preparedness; we make this easier by providing high quality first aid and survival products incased in durable materials to survive the elements.

Our products are designed by pilots with many hours of experience, with the understanding of safety in the forefront of all operations. Our team also consists of emergency and medical professionals that are on the front lines for first responders. Together we designed FL220 family of products to meet or exceed all aviation regulations.

Quality and integrity in our products and service are the most important part of our business. We stand behind our products and support our customers around the world. Aviation safety is our passion and mission. We strive to make your next flight better prepared with more confidence in your safety.

STANDARD - Flagship kit from Flight Level 220. Combining a jungle kit, first aid and survival kit in to one practical unit. Over 100 item to assist you in any challenge, including rendering first aid, signaling, fire, shelter, and fluid, food replacement. All items 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. 10.62" L x 9.68" W x 4.87" D. 7 lbs (3.2 Kg Approx.)

P/N 13-15955............ $350.00

LITE - The FL220 Survival Kit Lite is the perfect fit for the pilot that invest in safety. General aviation can only be safe with the right safety equipment on board. FL220 has put together and array of essential and “what if” items in a small durable case to cover any situation. Pilots think safety first and Flight Level agrees. Meets and exceeds FAA Far 91 requirements. 9.12" L x 7.56" W x 4.37" D. 8.5 lbs (3.9 Kg Approx.)

P/N 13-15956............ $193.75

FAA - The FL220 First Aid Kit is built to ensure its integrity in any situation. The Pelican case gives its users confidence in the content when needed most. Design to meet and exceed FAA Far 91 • 121 • 135 requirements as well as other aviation authorities. Each Kit is inspected and secured with a numbered break-away tag. 11.64" L x 8.34" W x 3.78" D. 3.5 lbs (1.6 Kg Approx.)

P/N 13-15957............ $138.95

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. 10.62" L x 9.68" W x 4.87" D. 8.5 lbs (3.9 Kg Approx.)

P/N 13-15958............ $457.00

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SURVIVAL KITS - FIRST AID KITS

TWO-MAN V.I.P. SURVIVAL PACK
It’s staggering just how much useful equipment comes out of this 10” x 11” x 4” d’backpack. Everything arranged logically and available the way you’d want it. Organized into 6 major divisions: medical/first aid, food, water, shelter & protection, fire & cooking, signals & lights, & “emergency devices.” Wt. 20 lbs P/N 9217 $262.95

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 Triangular Bandages 40” x 40” x 56” • Ammonia Inhalants (10 Capsules) • 6 Burn Gel Packets • Wire Splints • PVP Iodine Wipes (10 Wipes) • Orange First Aid Case P/N 13-02944 $94.25

MODEL B FIRST AID KIT - International Orange Case Velcro Kit Contents: • Burn Gel Packets • Alumized 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 $115.95

FIRST-AID SAFETY SCISSORS
Angle Kit Plastic Handle Scissors 4 1/2” can be used in all first aid kits. P/N 13-12036 $1.95

AIRCRAFT EMERGENCY SURVIVAL KIT
This is an ideal emergency support kit for plane, boat, home, office or school. This kit will sustain a person for 3 days. Includes: 2400 calories of ready-to-eat US Coast Guard approved food, sterile Coast Guard approved water, a lightweight (54” x 48”) tough, waterproof blanket, & assorted first aid supplies, matches etc. P/N 9641 $29.95

ODOE LED FLARE
Traditional flares will illuminate for around 30 seconds before extinguishing; the Odeoe 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 $137.75

3M™ ULTRATHON INSECT REPELLENT
Unique, time-release technology allows you to enjoy the outdoors longer. Provides lasting protection — up to eight hours against mosquitoes, gnats, chiggers, biting flies and ticks. Helps reduce the risk of contracting West Nile Virus and Lyme Disease. 2 oz. Lotion. P/N 09-01723 $6.90

STAINLESS STEEL CARABINER
Stainless steel karabiner for the best flying performance guaranteed load 26KN extremely high tensile strength qualified for tandem flying each single piece is tested with 1700kg. Specifications: Weight: 136.9g P/N 10-04494 $32.50

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 $12.95

STRAW KNIFE 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 attached included. P/N 13-18552 $12.75

QUEASE EASE MOTION SICKNESS RELIEF
QueaseEASE contains 100% pure and natural therapeutic grade essential oils formulated to relieve the queasiness associated with post-operative recovery, chemotherapy, morning sickness and motion sickness. (peppermint, peppermint, ginger and lavender) Works by simple olfaction: The molecules from the oils travel the olfactory track to the central nervous system where they interrupt the nausea cycle. Inhalation can be repeated as often as necessary. Immediately effective and safe for all ages. product will not interact with drugs. P/N 13-07194 $14.95

UST BLASTMATCH FIRE STARTER
The patented BlastMatch™ generates a stream of super heated sparks literally three times the heat of a standard match. You can easily light any material (wood, paper, bark, cloth, or man-made fire starting tinder) that a match will ignite. Best of all, you can accurately aim the sparks to ignite a roaring fire in all weather conditions, and the BlastMatch™ will last up to a an amazing 4,000 STRIKES, P/N 11-10894 $16.50

SPACE EMERGENCY BLANKETS
This “two ounces of protection that fits in the palm of your hand” is about the size of a deck of cards when folded, but opens into a 56” (142cm) 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 $3.95

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 incl.) • 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. Up to 400 hours operation. 17” long. Tough ABS construction. 400 Hour battery life. P/N 11-10804 $32.85

STROBEWAND LIGHT
The Strobewand is a hand held, battery powered warning light wand. Designed as a durable, quality-built, essential 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, the up to 120 flashes per minute. And readily tucked in a trunk or hung from the belt. P/N 14-00833 $42.70

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Prices Subject to Change Without Notice
EMERGENCY SURVIVAL KIT

Specially designed by a focus group, the ESK-02 makes it easy to be prepared for the unexpected. Each kit contains over 40 medical and general supply items including a guidebook that offers survival tips and basic 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 .................. $34.50

THE TRAVELER KIT

The Traveler Kit - Personal Care Package is appreciated by everyone from busy executives to sports enthusiasts. It’s the perfect addition to any car as the “other spare” to have on hand for life’s unexpected moments. Designed to support one person for up to three days, it contains over 50 support items in a custom nylon carrying bag with reinforced straps. “The Traveler” is ready to go anywhere.

P/N 13-03607 ................. $65.75

2-PERSON EMERGENCY SURVIVAL KIT

This deluxe 2 PERSON EMERGENCY SURVIVOR KIT could mean the difference between disaster and survival in an emergency situation. It contains a complete 3-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 Mainstay™ 1200 • • AM/FM Portable Radio w/ Batteries • The Wallace Emergency Guidebook

P/N 13-03608 .................. $74.75

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 .................. $2.95

PRECISE FLIGHT RESCUE RUCK PRO - 2 PERSON 7 DAY SURVIVAL PACK

The Rescue Ruck includes: food rations, water rations, camping pan, camping stove, water tablets, waterproof matches, first aid kit, SAS Survival Guide, tissues, sunscreen, insect repellent, emergency blankets, emergency ponchos, camping tent, multi tool, flashlight, radio, survival whistle, gloves, glow stick, rope, duct tape, backpack, anti-septic towelettes, bio-hazard bag, bandage scissors, protective gown, mosquito head net, 4” bandage compresses, mouth-to-mouth barrier with shield, adhesive tape, roller bandage, triangular bandage, 9 hour candles, storm proof matches, waterproof match case, axe, survival fishing kit, latex gloves. Must buy your own flares. Additional winter supplies might be required by some regulatory agencies from October through April. Check with your regulatory agency.

P/N 05-15070 .................. $488.00

FIRST AID ’N TRAVEL KIT

This kit is simply 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 kit to include your company’s logo.

P/N 13-03605 ................. $11.50

COCON 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 .................. $3.85

EMERGENCY FOOD RATIONS

Individualized portions eliminate the messy breakage-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 that appeals to everyone. 5 year Shelf Life. Non-Thirst Provoking. Withstands Temperatures of -40° F to 300°F (-40°C to 149°C)

13-03602: Ready to Eat: Each package contains 3 pre-measured 400 calorie meals.
13-03601: Ready to Eat: Each package contains 6 pre-measured 400 calorie meals.
13-03699: Ready to Eat: Each package contains 9 pre-measured 400 calorie meals.
Mainstay™ 3600 .................P/N 13-03599 ....... $7.50
Mainstay™ 2400 .................P/N 13-03601 ....... $5.95
Mainstay™ 1200 .................P/N 13-03602 ....... $3.95

EMERGENCY WATER PACKETS

Mainstay™ Water Packets - All water is not created equal! Here at Survivor Industries we have spent years perfecting our Mainstay™ Water Packets. The final result is a portable product with a 5-year shelf life. Other Key Benefits: • U.S. Coast Guard approved • No Oxygen Transfer (in other words, no chance of bacterial contamination) • Pre-Measured Packets make the water easy to 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 ................. $16.75

THE WALLACE GUIDEBOOK

For Emergency Care & Survival - When you’re faced with a disaster, you can often face physical and psychological strain. It’s often hard to remember what to do in an emergency situation, and this is exactly why we’ve written the Wallace Guidebook. This book is specifically designed to present the basics of survival in an extremely easy-to-understand manner. This book discusses the following topics, plus many more: Choking, Heart Attack, CPR, Shock, Burns, Emotional Trauma, Bleeding, Fainting, Wounds, Broken Bones, Fractured Bones, Back Injury, Childbirth, Auto Breakdown, Temperature Extremes, and the 1st and 2nd Rules of Survival. It’s not fun to be in one of these situations, but having a book like this nearby gives you a better chance of a happy ending.

P/N 13-03597 ................. $5.95

EGEAR 30 DAY LANTERN

The eGear™ Lantern is lightweight and can double as hanging light when globe is removed. Three 1.4W Nichia LEDs Up to 300 lumens on “high” setting 4-Mode electronic switch (press button) HIGH, MEDIUM, LOW & SOS-FLASHING. Amber LED Indicators show brightness levels. 30 days on “low” mode, 35 days on “medium” mode, 32 hours on “high” mode, 15 days on SOS Flashing mode. Green LED indicator flashes on “off” mode to show lantern location in darkness. Removable globe provides forward area light. Rubberized housing enhances impact resistance. Built-in recessed hook at lantern base for hanging as Downlight (see image below). Water and impact resistant.

P/N 11-10840 .................. $35.50

Prices Subject to Change Without Notice

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SURVIVAL KITS

Crashkit Personal and Professional Flight Line Series aviation survival kits are quickly becoming an industry leader in top quality aviation survival kits. Numerous kits are available to suit you piloting and survival needs.

CRASHKIT ALPHA SURVIVAL KIT

The “Alpha” personal aviation survival kit is designed for the pilot with general knowledge of survival techniques. This kit should only be purchased by experienced and skilled individuals. This kit includes 24 of the most essential items packed into the smallest kit practical. Weighing in at only 1.54lbs, the general kit is small enough to fit in any flight bag, purse, glove compartment, map pouch or cargo pocket.

Every item included in this kit has been thoroughly tested and approved to assure it performs flawlessly when needed. As with all Crashkits, all products have satisfied rigorous testing to ensure the ease of use for each individual. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, as well as to ensure the ease of use for each individual piece. This kit meets or exceeds Transport Canada’s Canadian Aviation Regulations to facilitate survival and rescue. Dimensions: 6.37” x 4.75” x 2.12” (16.9 x 12.06 x 5.4 cm) Weight: 1.54 lbs Contents: 24 items covering food, fire, water, shelter, and first aid.

P/N 13-04684 ..........................................................$169.95

CRASHKIT BRAVO SURVIVAL KIT

The ‘Bravo’ Personal Aviation Kit is designed for you. The Bravo Crashkit is small and compact, and includes 76 of the most essential items needed to survive. Kit includes basic first aid, light, fire, signal, shelter and methods for providing clean water and food procurement.

The kit is slightly thicker than the Crashkit ‘Alpha’, but still small enough to be carried easily in small flight bags, jacket pocket, glove compartment, map pouch or cargo pants pocket. Crashkit ‘Bravo’ weighs in a 1.6 Kilos or 3.52lbs.

While water resistant, crushproof and relatively small, this kit still exceeds all Transport Canada requirements for aviation survival. And with every item tried and tested to ensure it will work flawlessly for you when you need it most, you can count on the tools you need, when you need them.

P/N 13-04685 ............................................................$268.95

CRASHKIT CHARLIE SURVIVAL KIT

Including 71 of the most essential items, this kit is extensive in its coverage of necessary tools and supplies. Packaged in a Pelican 1120 case, ‘Charlie’ is still compact and lightweight enough for easy transport and storage. Every item in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, as well as to ensure the ease of use for each individual piece. This kit meets or exceeds Transport Canada’s Canadian Aviation Regulations to facilitate survival and rescue. This kit now includes Aquatabs Water Purification and The Spark-Lite Flint and Tinder Kit.

Each package of Mainstay Food Rations contains pre-measured 400 calorie individualized portions, non-thirst provoking lemon flavor daily meals, and suitable from -40F to 300F and ready to eat. The tasty bars contain no cholesterol or tropical oils. Meets all guidelines set by the Department of Defense (SOLAS 74/83). Exceeds the RDA requirements. In an emergency situation, ration to one portion per day or less. Dimensions: 20.6 x 16.7 x 9 cm (8.12” x 6.56” x 3.56”) Weight: 1.85 kg (4.07 lbs)

P/N 13-04686 ............................................................$344.95

CRASHKIT 2-7 SURVIVAL KIT

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 typical GA light aircraft and contains over 200 essential items needed to sustain two people for seven days. This Aviation kit contains multiple options for the provision of food, fire, and water, including Aquatabs Water Purification Tablets and the Spark-Lite Flint and Tinder Kit. The kit is packaged in a Pelican 1200 case and remains lightweight and compact for ease of storage.

As with all Crashkits, all products have satisfied rigorous testing to ensure they surpass Transport Canada regulations for aviation. Crashkit 2-7 exceeds all Transport Canada and Federal Aviation Administration regulations for both survival and first aid, 1-6 person. Dimensions: 27 x 24.6 x 12.4 cm (10.62” x 9.68” x 4.87”) Weight: 4.31 kg or 9.50 lbs

P/N 13-04690 ..........................................................$529.95

CRASHKIT 4-7 SURVIVAL KIT

The Crashkit 4-7, designed for use in typical GA light aircraft and commercial aircraft, contains the materials necessary to sustain four people for seven days in the event of a crash. The variation of items within the kit allows for multiple options for food, fire, water and shelter; for example, in addition to the Mainstay 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 1450 case. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, and meets or exceeds Transport Canada’s Canadian Aviation Regulations to facilitate survival and rescue. Dimensions: 13.37” x 11.62” x 6.00” (34 x 29.5 x 15.2 cm) Weight: 17.55lbs Contents: 232 items covering food, fire, water, shelter, and first aid.

P/N 13-04691 ..........................................................$926.00

CRASHKIT 6-7 SURVIVAL KIT

Intended for commercial aircrafts, our Crashkit 6-7 has enough materials to sustain six people for seven days in the event of a crash. Various means of food, fire, water and shelter allow for multiple options; for example, this kit includes not only Mainstay 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: 22.8lbs Contents: 261 items covering food, fire, water, shelter, and first aid.

P/N 13-04692 ..........................................................$1,195.00

CRASHKIT 6-7 SURVIVAL KIT

Intended for commercial aircrafts, our Crashkit 6-7 has enough materials to sustain six people for seven days in the event of a crash. Various means of food, fire, water and shelter allow for multiple options; for example, this kit includes not only Mainstay 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: 22.8lbs Contents: 261 items covering food, fire, water, shelter, and first aid.

P/N 13-04692 ..........................................................$1,195.00

MILITARY PILOT SURVIVAL KITS

Survival Tool Kit – Total weight is 3 lbs.

Custom designed, adjustable carrier pouch holds equipment. Can be worn around waist, used as tourniquet or with wooden dowels as splint. Dowels help with fire-starting. Blunt-tipped Meyerco Rescue Knife prevents injury, cuts seat belts and harnesses. Handle includes carbide glass breaker. Two emergency blankets. Emergency signaling mirror. Victorinox SwissTool includes: pliers, screwdrivers, wire cutter, cap lifter, blades, metal file, sharpening punch, chisel/scrapper, crate opener, wire bender, stripper and scraper, can opener, ruler, electrical crimper. Two-sided screw bit holder with six bits and belt holder. Wire cutter designed for use in aircraft.

MILITARY PILOT SURVIVAL KIT – Designed by Oregon Aero for the U.S. Navy. The durable carrier pouch is hand sewn by Oregon Aero with pockets for each item. Knife, fire starter and flashlight lanyard attached to carrier. Special zipper permits access to folding knife without opening the carrier. 6.5” high, 3.5” wide, 1” thick. Kit includes: Gerber® Multi-Purpose Tool created especially for this kit by Gerber and Oregon Aero. Gerber® Harsey Air Rafter II Folding Knife. Nexum™ 26DLN Compass. LED Task Light™ Flashlight. Sunscreen Packs. Tactical smoke Marker. Strike Force™ Fire Starting System. Custom designed Multi-Tool includes pliers, wire cutter, file, awl, serrated sheep’s foot blade, knife/hook sharpener, assorted screw drivers.

P/N 13-05676 ..........................................................$299.95

P/N 13-05675 ..........................................................$462.95

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Proses Subject to Change Without Notice
SURVIVAL EQUIPMENT

REVERE GLOW PARAHATCHET
SURVIVAL CUTTING TOOL
Paracord handle unwraps to provide 8.2ft. (2.5m) of heavy duty cord for emergency use. Lanyard can be removed for additional 1.6 ft. (0.5m) of cord. 5mm black oxide-finished stainless steel blade. Includes nylon sheath with belt loop. Multi-sized hex wrenches. Quick-action rope cutter on back of blade. Size: 10"x4"x0.5". Weight: 11 oz. P/N 13-15540 $3.95

REVERE PARAKNIFE 4.0
Kit contents: ParaKnifeTM 4.0, PicoTM 1.0 LED Light, Liquid-filled Button Compass, Micro SparkWheel Fire Starter, Light-MTM Tinner, JetScreamTM Micro Signal Whistle, and StarFlashTM Micro Signal Mirror. Size HxWxD: 8.7"x3.4"x0.2" (220 x 84 x 4 mm). Weight: 8.8 oz. (249g). P/N 13-15541 $23.95

REVERE SABERCUT CHAIN SAW
SURVIVAL CUTTING TOOL
Flexible 24" blade cuts in a wide variety of angles and with very little clearance. Sharpens with standard 1/8" saw blade sharpener. "Pro" version includes carry case with hook-and-loop closure. "Lite" version comes without the carry case. Can be extended by simply adding extra rope to each handle. Lasts indefinitely with minimal routine maintenance. Self-cleaning saw teeth. Weight: 4.2 ounces (119g) (saw and case). P/N 13-15543 $23.95

REVERE SURVIVAL TOOL CARD
Thirteen tools protected by a hard plastic credit card-size case: Attachment loop, Mini Phillips screwdriver, Large filehead screwdriver, Magnifying gloss, 8-sided bolt head wrench, Position wrench (4 different sizes), Butterfly wrench, large filehead screwdriver, Bottle opener, File edge, Sharp knife edge, Can opener, 2 inch/5cm ruler, and Mini compass*. Size closed: 3.3"x2.2"x.5" Weighs 1.6 oz. "For optimum compass performance, separate compass portion from main unit. P/N 13-15544 $4.95

REVERE WETFIRE TINDER PACK OF FIVE
Works in all weather and at all altitudes. Safe, lightweight and easy to carry. Cube form, individually packaged to maintain freshness. Over 1300 degree Fahrenheit flame. For use with any UST or other sparking device, 5-year shelf life. Approximate size per cube: 1"x1"x.75". Approx. weight per cube: 0.16 oz. P/N 13-15545 $3.95

REVERE WATER TIGHT CASES
This Waterlight Case Keeps Valuables Secure and Dry. Holds keys, credit cards, and other small essentials. Shatterproof polycarbonate case with o-ring seals for import and water-resistance. (NOTE: Not intended for submersion). Lanyard and biner included. P/N 13-15547 $4.95

REVERE COMPASS COMBO
Liquid-filled compass, Fahrenheit thermometer and whistle. Break-away lanyard included. Size: 2.75"x1.75"x.25" Weight: .6oz. P/N 13-15549 $23.75

REVERE DELUXE MAP COMPASS

REVERE LENSATIC COMPASS
Liquid-filled compass keeps north arrow steady. Clear base plate with magnifier for easy map reading. Multiple measurement scales for precise route planning. Adjustable marching line. Neck lanyard. Size: 3"x2.3"x.25". *Weight: 8 oz. P/N 13-15551 $4.75

SEE-ME DUO LIGHT
Personal Locator Light with a flashlight on one end and a strobe on the other. Steady-on mode: Provides 37 lumens of light. Runs 14 hours continuously on. Strobe mode: Provides 45 lumens of light. Runs 24 hours continuously flashing. Strobe role: up to 60 flashes per minute (1Hz). Lifetime LED is unbreakable and never needs to be replaced. Easy twist on/off. Impact and water-resistant IPX8. Wrist lanyard and hook/loop attachment strap included. P/N 13-15553 $26.75

NEBO POPPY LANTERN AND SPOT LIGHT
Poppy is a combination, 300 lumen COB (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° COB lantern. The handle is designed to easily adjust to conveniently serve both light modes. 4 Assorted Colors (Yellow, Dark Grey, Red, Green). Lantern color is shipped randomly. P/N 13-20219 $15.95

REVERE ENSPIRE LED HEADLAMP
This Revere Enspire LED headlamp has up to 230 Lumens. Runs 160 hours continuously on "Low". Runs 9 hours continuously on "High". Lifetime LED is unbreakable and never needs to be replaced. Rubberized housing enhances impact-resistance. Water-resistant IPX4. Focus control adjustment allows for broad or directed beam. Head ratchets to direct light as needed. Battery pack has independently operated red steady or red flashing light. Rear battery pack keeps weight comfortably balanced. P/N 13-15554 $29.95

SNOW BROOM
The SNO BRuM offers pilots a way to quickly sweep snow off aircraft wings and away from the user. Great for high wing aircraft. The oversized head (6" x 17") is the largest snow remover available. The aluminum telescoping handle has special cold resistant nylon threads and extends from 27" to 46". Also great for cars, trucks, SUV’s, and awnings. P/N 13-04055 $19.65

UST DELTA SHOCK AND STORM PROOF LIGHTER
Catalyzer coil provides ultimate windproof flame. Catalyzer coil withstands winds of 70-80 mile per hour. Burns with clean hot flame at 2,000 degrees Fahrenheit. Flame Indicator Window located on side of combustion chamber glows when lighter is ignited. Fuel Level Indicator visually reveals fuel level. Permits easy, one-handed operation good for over 30,000 ignitions... Water Resistant O-Ring seals keep water out when lighter is capped, lid closed. Optimum performance in altitudes up to 8,000 feet. Not intended for use in altitudes over 10,000 feet. P/N 11-10893 $48.95

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Prices Subject to Change Without Notice

Dim.(in.) HxWxD Weight Description Part No. Price
4.75"x3.75"x1.5" 2.2 oz. (62g) Holds keys, credit cards and other small items 13-15547 $3.95
6.25"x14"x1.5" 2.0 oz. (74g) Holds iPhon® or Samsung Galaxy® (or both together) 13-15548 $4.95

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SURVIVAL EQUIPMENT

ACR FIREFLY PRO SOLAS EMERGENCY DISTRESS STROBE LIGHT
The Firefly PRO emergency strobe light boasts a bright light output power management system that produces over 41 candelas of light per strobe for up to 6 hours of use with AA lithium batteries. Using wide light emission LEDs, it cuts through the foulest conditions creating a super-bright flash visible for over 3.5 miles. Specifications: • Size: 4.4 x 2.2 x 1.2 inches / 11.7 x 5.7 x 2.8 cm • Weight: 2.39 oz (68 g) without batteries • Operation: Manual/Off switch • Waterproof: Factory tested to 33 feet (10 m) • Lamp: LED - cool white • Strobe Intensity: 41 Candles (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 .......................... $65.75

REVERE SEE-ME LIGHT
Both automatic and manual modes. Fast activation in water. Far exceeds USCG requirements for light output and duration. Waterproof/Weatherproof. For use with lithium (5 year) or alkaline (1 year) batteries (not included). Available with lifevest clip and lanyard. USCG Approved/SOLAS compliant. Typical Light Output is up to 1.6 cd (min. requirement by USCG is .75 cd). Typical Operation Time is 29 hrs (min. requirement by USCG is 8 hours)

P/N 10-04579 .......................... $7.90

REVERE SEE-ME STROBE
Both automatic and manual modes. Fast activation in water. Far exceeds USCG requirements for light output and duration. Waterproof/Weatherproof. For use with lithium (5 year) or alkaline (1 year) batteries (not included). Available with lifevest clip and lanyard. USCG Approved/SOLAS compliant. Typical Light Output is up to 5 cd (min. requirement by USCG is .75 cd). Typical Operation Time is 120 hrs (min. requirement by USCG is 8 hrs)

P/N 10-04580 .......................... $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 starting tinder in the air/water tight tinder box portion of the unit that is sealed from the elements using an o-ring seal. This keeps the damp air/water out so your tinder always stays dry! The Tinder Hot Box Solar Fire Starter™ is also a solar powered fire starter. It is designed to function in any environment that will support life; the Tinder Hot Box Solar Fire Starter™ will literally function for as long as our Sun 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. It is safe and effective to use on interiors, carpets, upholstery, and everywhere else that can use deodorizing. Made in the U.S.A.

Dimensions: 6” x .75” dia. Weight: .8 oz. (each. -anywhere you need hours of soft, glowing light. 4 oz. ............................................ $146.26
P/N 13-20241 ............................................ $39.99

RESQME 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 electronic 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 used repeatedly in any of its four modes, ensuring continued visibility is maintained over a longer period. The unit is both safe to store and operate while also eliminating any worries associated with disposal. The compact size and rugged design means the rescueME EDF1 is the perfect safety product for a grab bag, life raft or hiker’s backpack.

P/N 13-20241 ............................................ $146.26
P/N 13-20243 ............................................ $39.99

AQUAMIRA FRONTIER EMERGENCY WATER FILTRATION SYSTEM
Emergency water filtration system for hiking, camping & emergency preparedness. Effective on protozoan cysts (Giardia & Cryptosporidium). Economical-filters up to 20 gallons. Ultra light & compact (only weighs 1 oz & is less than 5” long). Perfect for emergency kits, foreign travel & outdoor activities. Essential part of your 72 hour emergency kit. Use when drinking from a bottle, cup or directly from a water source. EPA EST.NO. 071766-UT-001.

P/N 14-02899 .......................... $117.75

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 visible.

P/N 13-08662 .......................... $13.95

FIND ME LIGHT STICK
The Find-Me Light Stick with its integrated hook and lanyard hole attaches easily to tents, boats-anywhere you need hours of soft, glowing light. Dimensions: 6” x .75” dia. Weight: .8 oz. (each. 2 Pack (1-Green / 1-Yellow).

P/N 11-11390 .......................... $2.75

AURORA FIRE STARTER
Made in the U.S.A. Self contained fire starter. Made of knurled anodized aluminum. Includes a cylinder with built in steel rod blade and an outside base which is struck by the 1/4” thick ferro-magnesium rod, creating a spark. The cylinder and rod screw together and meet at an o-ring creating a waterproof seal to protect the rod from corrosion.

P/N 14-02701 .......................... $19.75

G.I. AVIATION SURVIVAL FIRE STARTER
Magnesium shaving edge and sparking insert. Government issue.

P/N 14-02700 .......................... $10.99

AVIATION SAFETY HORN
The aviation safety horn is extremely helpful on the ramp to get someone’s attention over the roar of a propeller. Completely electronic - it can run on a 9 volt battery for hours of use! Pumping out a huge 112 decibels of ear piercing pulsating tone!

P/N 11-12917 .......................... $29.00

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 .......................... $10.50

FIREBOMB FRAGRANCE DEODORIZER
FIREBOMB is a water-based fragrance that provides lasting sensory enhancing aroma when you want it. It is safe and effective to use on interiors, carpets, upholstery, and everywhere else that can use deodorizing. Made in the U.S.A.

P/N 14-03332 .......................... $4.35
16 oz. ............................................ $10.85
1 Gallon ........................................... $20.85

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Prices Subject to Change Without Notice
COCKPIT COOLERS

THE MINI ICEBOX PORTABLE AIR CONDITIONER

The Mini 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. Jump in and start your engine for 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 with the included 2x button Wireless Remote 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 electrical power. Cool down the car or boat with the IceBox, and keep your engines off in the process.

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<tr>
<th>Description</th>
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COOL MOVE TRAVEL COOLER

A Soft sided electric travel cooler with cigarette lighter car plug in. Cools without ice which leaves you more room for food and drink. Quiet, long lasting motor powered by 12V vehicle outlet. 14 quart capacity that holds up to 20 cans plus snacks. Collapsible cooler takes up minimal space and allows for easy storage. Iceless cooling performance powered by thermoelectric technology that allows you to travel without the mess and inconvenience of ice. Digital Thermometer indicates ambient cooler temperature. Made with high quality materials for durability and toughness that’s built to last. Plug in A/C adapter for use in the office, hotel room, camper, or dorm (not included).

P/N 08-14007 ......................... $59.75

B-KOOL PORTABLE COOLING SYSTEMS

Using a combination of ice and water, B-Kool™ provides up to an hour of 40° cool air using just 10 lbs of ice and a minimal amount of water. B-Kool™ is NOT an evaporative cooler and works well in high Humidity areas. Capacity is 20 lbs of ice giving you over 2 hours of cool air. B-Kool™, a flexible and expandable air duct. Can be expanded to over 2 feet and positioned so air can be ducted where you want it. Because the B-Kool™ weighs less than 10 lbs empty, you can easily move it from your Camper, Airplane, Boat or any area where either 12 or 24v DC current is available.

12V Base Unit ........................................ $299.00
24V Base Unit ........................................ $329.00
12V with Wireless Remote ...............P/N 13-16046 ............... $399.00
24V with Wireless Remote ...............P/N 13-16046 ............... $429.00

KEWLFLOW PORTABLE COOLER

The ice cooler or backpack that holds the ice and water can be easily refilled for continuous cooling over extended periods. Includes 12V Adapter. 4 quarts. 6429C includes 6429 Vest and Cooler. 100% Nylon Carrying Case with spill proof inner cooler. Unit includes water reservoir, pump, and power source. Insulated tubing and manifolds enable maximal cooling. Easy to use quick connectors allow for convenient operation. Can operate with variable power sources (battery, 12V, 110AC). Cooling Duration: Up to 3 hours. Typical users include surgeons, motorcyclists, and others needing personal cooling relief.

P/N 13-15509 ........................ $307.00

KEWLFLOW PORTABLE BACKPACK

KewFlow™ products use a combination of ice water and pumps to push cold water through special tubes built into vests. This allows for a continuous flow of cool water around the upper body, keeping the user cool and comfortable in any condition. The backpack that holds the ice and water can be easily refilled for continuous cooling over extended periods. Includes battery pack, 4 liters. 100% Nylon Back Pack with integrated water reservoir, pump, and power source. Padded shoulder straps with variable sizing adjustments. Insulated tubing and manifolds enable maximal cooling. Easy to use quick connectors allow for convenient operation. Can operate with variable power sources (battery, 12V, 110AC). Cooling Duration: Up to 3 hours. Typical users include motorcyclists, welders, painters, and others requiring a portable cooling solution.

P/N 13-15510 ............................... $561.00

CIRCULATORY COOLING VEST WITH STATIC COOLER

Includes 12V Adapter. Includes Vest and Cooler. 100% Nylon Carrying Case with spill proof inner cooler. Unit includes water reservoir, pump, and power source. Insulated tubing and manifolds enable maximal cooling. Easy to use quick connectors allow for convenient operation. Can operate with variable power sources (battery, 12V, 110AC). Cooling Duration: Up to 3 hours. Typical users include surgeons, motorcyclists, and others needing personal cooling relief.

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CIRCULATORY COOLING VEST WITH PORTABLE BACKPACK

Includes Vest and Backpack. 100% Nylon Back Pack with integrated water reservoir, pump, and power source. Padded shoulder straps with variable sizing adjustments. Insulated tubing and manifolds enable maximal cooling. Easy to use quick connectors allow for convenient operation. Can operate with variable power sources (battery, 12V, 110AC). Cooling Duration: Up to 3 hours. Typical users include motorcyclists, welders, painters, and others requiring a portable cooling solution.

<table>
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<th>Size</th>
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VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE KEWLFLOW HEATING AND COOLING VESTS.
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.

**ROTONOMOLED 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.

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### Cooler Specifications

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<td>White 13-19125</td>
<td>$549.99</td>
<td>48 lbs</td>
<td>20&quot;</td>
<td>L 40&quot; W 19-1/2&quot;</td>
<td>14-1/4&quot; L 34&quot; W 14&quot;</td>
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<tr>
<td>Tan -</td>
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<td>Blue -</td>
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<td>21-1/2&quot;</td>
<td>L 45&quot; W 19-1/2&quot;</td>
<td>15-1/2&quot; L 39&quot; W 14&quot;</td>
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Prices Subject to Change Without Notice

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COOLERS

YETI® HOPPER™ PORTABLE COOLERS

The Hopper was built for those adventures where you just want to grab your gear and go. It’s the original 100% leakproof, ice-for-days portable cooler. And because we used materials found in things like survival suits, it’s also tough as nails. The Hopper is made in sizes to fit any adventure, whether that’s on a wild river in a kayak or a floatplane trip to a remote salmon stream.

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 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.

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Price Subject to Change Without Notice

1014
Flight Surgeon at NASA, developed these revolutionary new exercises associated with air travel. They were developed by Cirrus. 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 eliminates sea and vomiting in travel, pregnancy, anesthesia, chemotherapy and all conditions which induce nausea. The Sea-Band has been clinically tested against nausea and vomiting.

**PUMA METHOD FOR PREVENTION OF MOTION SICKNESS**
A series of simple conditioning exercises, taught on VHS or interactive DVD, that effectively prevents the nausea, vomiting, lightheadedness and other unpleasant symptoms experienced by over 50% of the population while traveling. Sam C. Puma MD, president of Puma Applied Science and former Air Force Flight Surgeon at NASA, developed these revolutionary new exercises to totally eliminate carsickness, seasickness, airsickness, and even spacesickness. Takes only about 15 minutes a day to do.

**OZIUM AIR SANITIZER / FRESHER**
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.

**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, discreet and odor-free experience when privacy is needed.
CO DETECTORS

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 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………………$289.00
Aero Model 353 w/Pressure Sensor………………………………………P/N 13-16424………………$389.00
Aero Model 353 Display Only………………………………………..P/N 13-16427………………$289.00
CO2 Detector for MVP and CFR………………………………………P/N 10-03188………………$289.00
353P-201 Remote Mount………………………………………………P/N 13-06917………………..$459.00

MODEL AERO 451 - The CO Guardian 451-1 panel mounted Carbon Monoxide (CO) 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 451-1 combines the most advanced CO detection for the cockpit in a small package.

This CO 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 451-1 Panel Mount......................................................P/N 13-21110………………$478.00
Model 451-201 Remote Mount………………………………………P/N 13-21111………………$399.00

MODEL AERO 452 - Input Power-14 / 28 V DC.

Power Usage-Less than 1 Watt, 10 Watts with heater ON. Temp Range - -20 deg C to 55 deg C.

Calibration-100 and 500 PPM. Ouput-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.

MODEL AERO 452-201-011 - Aero 452-201-011 is the first TSO certified 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.

MODEL AERO 454 - The AERO 454 can wirelessly transmit your GPS location up to three IOS devices via WiFi and an RF link. Input Power: 14/28 V DC. Weight: 7 oz. Standard………………………………………..P/N 11-10663………………$495.00
Remote Unit…………………………………………………………P/N 13-16426………………$999.00

MODEL AERO 455 - CO Guardian proud to introduce aviation’s first-built-in pulse oximeter for air-plane panels. This Life Guardian Aero-455 has been designed for all aircraft with limited panel space. This small pulse Oximeter with CO Detector mounts easily in most panels and transmits data to the MFD’s via RS232. Current MFD manufacturers include Electronics International, Advanced Flight Technologies, Grand Rapids Instruments and on upcoming releases of Avidyne Entegra Release 9.

AERO 551 - is fast responding to CO threat detector that is designed to standard 2 1/4 hole. This unit is our most sophisticated CO detector that has an extremely fast response when CO is present. The 551 unit shows continuous CO Level from 10PPM to 999 PPM.

MODEL AERO 455 - The Guardian CO Monitor offers a minimum 18 months of sensor life.

CO GUARDIAN CARBON MONOXIDE DETECTORS

CO Guardian proudly announc-

DRAGER PAC SINGLE GAS MOUNTS

Dräger Pac 3500 - Workplace safety devices need to be fast and accurate. That is why the Dräger Pac 3500 is ideal for the personal monitoring of industrial carbon monoxide, hydrogen sulphide, along with negligible maintenance-free for up to two years.

P/N 13-07016………………..$226.95

Dräger Pac® 5500 - Long-lasting quality is key when it comes to workplace safety. The Dräger Pac 5500 has no lifetime limitation and is ideal for fast and accurate personal monitoring and detection of carbon monoxide, hydrogen sulphide or oxygen.

GASALERT CLIP EXTREME CARBON MONOXIDE MONITOR TWO YEAR BATTERY LIFE

Simply press the start/test 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.

Dräger GasAlertClip Extreme II CO (2 Years)…..P/N 13-09667………………..$159.95
Dräger GasAlertClip Extreme III CO (3 Years)…..P/N 13-09668………………..$288.95

LONG LIFE CARBON MONOXIDE DETECTOR

No longer do you have to replace that Carbon Monoxide Detector every 28 days, the new Quantum Eye Carbon monoxide detector offers a minimum 18 months of sensor life.

P/N 09-35600………………..$3.85
Discount on 5 ………..$17.33

STANDARD CARBON MONOXIDE DETECTOR

Carbon Monoxide (CO) is a toxic, odorless, and tasteless gas produced by the incomplete combustion of gasoline, kerosene, natural gas, butane, fuel oil, wood, coal or anywhere fossil fuels are burned. Dangerous levels of CO can 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 may cause sickness, headaches, or even death.

MODEL 300 POCKET CO

Pocket CO Model 300 is the world’s smallest and most affordable carbon monoxide detector, alarm and dosimeter. About the size of a key fob weighs less than 1 oz. Range: 0 – 500ppm; first alarm at 50ppm, second at 125ppm, third at 400ppm. Also has an 8-hour TWA warning alarm at 25ppm. Self-checks upon start and carries a 2 year bump test and a 3 year warranty.

Price Subject to Change Without Notice
PROTECTIVE GEAR FOR PETS

MUTT
MUFFS
- 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

SIZE CHART - The overall circumference measurement of your dog’s head at the largest point is the best determination of size, because if you choose a size too large, the muffs won’t seal well against his head, and you lose all the sound-reducing properties you were shooting for. Your dog’s weight is also a good indicator of which size to choose.

CUSTOM COLORS - Ever-classic “Mutt Muff® Black”. But now, Mutt Muffs® are available in three additional colors! Red! Blue! and Pink!

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”.

HYDRO-BOWL FOR DOGS
Next time your pooch is pantin’ for a drink, pull out the convenient, collapsible Hydro Bowl. Waterproof and made of a high-tech, durable plastic canvas, the Hydro Bowl folds up and snaps closed into a compact triangle for storage. Attach it to a leash, backpack, bicycle, or a variety of other places for easy storage. Hold 5 cups

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!

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.

4 PAWS K-9 EAR MUFFS
4 Paws Aviation has come out with hearing protection for your pet. Average of 15 dBHL greater sound reduction than what’s on the market today. These Ear Muffs hearing protection is made of nylon, aircraft approved sound 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 to 25 pounds “” and 13” head size........ P/N 13-08288. $59.95 Medium: 20 to 65 pounds 9” and 19” head size... P/N 13-08289. $63.95 Large - Over 85 Pounds & 19” head size.......... P/N 13-12807. $68.75

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. The hood comes with 7-foot long oxygen supply tubing with a common push on female end. Attaches to a stand-alone bottle or in place oxygen system. Oxygen hoods are available in five sizes, measurements’ include the collar (around the neck) and the length from the nap of the neck to the end of the nose, then add two more inches for clearance.

AEROX PET MASK
Take your pet with you at altitude thanks to AEROX and their line of Canine 02 Mask supplemental oxygen system certified to 25,000 feet. The Aerox® Canine 02 supplemental oxygen system is currently available in 5 sizes: Small - (Poodles, Shelties, Yorkies, Cavalier, Bichon Frise) Medium - (Beagles, Keeshounds, Jack Russels, Standard Poodle) 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 pet’s mouth and nose.

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SKYWATCH WINDMETER - Handheld Weather Station

- Dimensions: 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 disabled to remain on), one year warranty.

SM-19 SKYmate PLUS WIND METER

- Current, maximum windspeed
- Average windspeed over 5, 10, or 13 seconds
- Current temp & windchill
- Relative Humidity & Dewpoint
- Backlight

WM-350 WINDMATE 350

- Offers the most popular features in a handheld device, wind speed and temperature with wind chill calculation. Single button operation, easy measurements, and the display has a backlight, handy for low light conditions. Each unit is waterproof, and has a tripod fitting. Features:
  - Digital wind direction in degree & compass points
  - Current, average, maximum wind speed and temperature
  - Wind direction accuracy ± 2°
  - Temperature accuracy ± 0.3°F

SM-28 Replacement Impeller

- Replaceable plastic impeller won’t corrode. Easy to install, comes with a lanyard.

WM-100 WINDMATE 100

- Wind speed and wind direction, accurate, features, and price make this the best value in handheld windmeters! It is water resistant, it floats, and it comes with leather-like carrying case. No Batteries needed.

SM-28 Wind Tunnel Accessory

- Jackknife case allows most accurate wind readings

WM-350 Replacement Impeller

- Adjustable nylon case (fits all models)

WM-100 Wind Tunnel Accessory

- Max wind speed and wind direction, accurate, features, and price make this the best value in handheld windmeters! It is water resistant, it floats, and it comes with leather-like carrying case. No Batteries needed.

WM-350 WINDMATE 350

- Wind speed and digital wind direction, relative humidity, dewpoint, wind chill, and barometric pressure

^1018 Prices Subject to Change Without Notice

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WEATHER STATIONS – WINDMETERS

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 .................... $955.00
Vantage Pro2 Plus .......................................... P/N 13-05569 .................... $969.00
Mounting Tripod ............................................ P/N 13-04569 .................... $89.75
Replacement Anemometer for Vantage Pro2 & Pro Vantage Pro2 Plus ............................................. P/N 13-05566 .................... $869.00

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
P/N 13-13073 .................... $128.75

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. Temperature – 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

WEATHER FLOW WIND METER
The WeatherFlow Wind Meter is an anemometer that fits in your pocket. It’s the first hardware product we have created for the general wind- and weather-addicted community. It’s compatible with iPhone, iPad, iPod, and all major Android (coming soon) devices. And you are going to love it. It’s operating range extends from the smallest puff (2 mph) to well over hurricane force winds (125 mph).

P/N 13-14788 .................... $34.95

VAAVUD MJOLNIR SMARTPHONE WINDMETER
The Vaaavud wind meter turns your smartphone into a high-tech meteorological tool. Takes accurate readings, at wind speeds from 2 – 20 m/s (Up to 24 m/s on iPhone 5S and up to 48 m/s on some Android phones), with a precision of +/- 4%. It comes with a practical neoprene bag so you can take it with you anywhere. Works with the following devices: iPhone 5S, 5C, 5, 4S – 4 – iPad 2, 3rd and 4th generation mini and Air – Samsung Galaxy S4, S3, HTC One, Google Nexus 5 and many more. Wind Speed: 2 – 20 m/s, +/- 4% precision. Wind Direction: No. Omnidirectional: Yes. Technology: Magnets (electronic). Construction Quality: Super Rugged. Dimensions: 20x112x59 mm.

P/N 13-17540 .................... $29.75

WEATHERHAWK MYMET SPORT WIND METER
myMET is a handheld device that reacts almost instantly to changes in wind and air temperature. This instrument is a new concept in handheld wind meters in that it can display data on an integral LCD, and on a Smartphone or tablet.

iOS and Android Apps are available for free with purchase of the device. They display the measurements for wind speed, air temperature and wind chill, with the added display device supplied data for location, direction and altitude. Data can be connected to a site image, from the smart device, and transmitted by email or text. Requires iPhone 4S/iPad2 or newer: OR Android device with 4.3 OS or newer.

Features:
• Displays data on Smartphone or tablet.
• Apps are free.
• Handheld device.
• Reacts almost instantly to changes in the wind and air temperature.
• Displays wind speed, air temperature and wind chill measurements.
• Displays location, direction, and altitude.
• Transmits data by email or text.

Windmeter Kit w/ Wind Valve................................ P/N 13-15920 .................... $155.99
Windmeter ..................................................... P/N 13-15919 .................... $95.96
Wind Valve Only ........................................... P/N 13-15918 .................... $10.99
Case Only .................................................... P/N 13-15917 .................... $15.19

WEATHERHAWK MYMET SPORT WIND METER
Compact & Convenient!! Weather info in the Palm of Your Hand. Windspeed & Direction Altitude & Location Image with Embedded Data Easy to Use Free App.

P/N 15-18038 .................... $34.99

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.

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<tr>
<th>Description</th>
<th>Part No.</th>
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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 $19.95
LED Mini Maglight 2-cell AA, w/Holster - Grey P/N 13-04917 $19.75

LED Maglight 2 Cell D hang pack - Black P/N 13-04724 $29.95
LED Maglight 2 Cell D hang pack - Grey P/N 13-04880 $34.50
LED Maglight 3 Cell D hang pack - Black P/N 13-04725 $29.95
LED Maglight 3 Cell D hang pack - Grey P/N 13-04881 $32.80

ACCESSORIES PACK - Includes: Pocket clip, lanyard wrist strap with key ring, anti-roll device, red, clear, and blue lenses.
P/N 13-04727 $3.95

MAGLITE XL 200 LED FLASHLIGHTS
This XL™ SERIES of COMPACT FLASHLIGHTS offers FIVE BASIC, EASY-TO-USE FUNCTIONS plus Advanced Features and the STUNNING BRIGHTNESS of a Next-Generation LED. By the simple “QuickClick” method introduced with our popular Maglite® XL50™ flashlight, the XL200™ lets the user select the desired function: Motion-controlled variable power level and strobe rate. Easy to use. Powerful Projecting LED Beam. Pushbutton tailcap switch. Compact, Pocket Size Design.

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 protects the lens and helps prevent the flashlight from rolling off irregular surfaces. Note: The Lens Holder and Lenses may also be used on “C” cell Maglite® flashlights. P/N 13-04886 $8.50

MAGLITE FLASHLIGHTS
Maglite AA - Black P/N 13-04913 $14.20
Maglite 2 Cell D - Black P/N 13-04915 $22.50

Replacement Bulb for 2D Cell

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.

Color Part No. Price
Black 13-08882 $32.50
Red 13-08886 $31.95
Gray 13-08884 $32.50
Silver 13-08891 $32.50
Blue 13-08892 $32.50

NEBO CHAMELEON TRI COLOR FLASHLIGHT
No color filters...no separate heads...and no extra attachments. The Chameleon™ by NEBO offers 3 vibrant colors all in one convenient, compact flashlight. One color changing LED switches from white to green to red with the touch of the glow-in-the-dark On/Off button. The Chameleon™ features a 4x adjustable zoom to change the beam from spot light to flood light with the simple twist of the head.
P/N 13-17163 $20.65

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>
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<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length Flex</th>
<th>Shaft</th>
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<th>Batt. Bulb</th>
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<tr>
<td>12-15050</td>
<td>Mini Pro</td>
<td>6.5&quot;</td>
<td>2-AAA</td>
<td>12100</td>
<td>24&quot;</td>
<td>$19.95</td>
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<td>12-15150</td>
<td>Pro</td>
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<tr>
<td>12-10251</td>
<td>Removable Shaft</td>
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<td>12100</td>
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<th>Bulb Life</th>
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<tr>
<td>12-15050</td>
<td>12100 - Replacement Lamp</td>
<td>5/32&quot;</td>
<td>4 Hours</td>
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<td>12-12110</td>
<td>12110 - Accessory Pole</td>
<td>5/32&quot;</td>
<td>20 hours</td>
<td>$9.95</td>
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AVIATOR’S QUIQLITE
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.

Blue LED QuiqLite P/N 13-02719 $8.95
Green LED QuiqLite P/N 13-02720 $8.95
Red LED QuiqLite P/N 13-02718 $8.95
White LED QuiqLite P/N 13-02724 $8.95

SURE CHECK FUEL LIGHT
Will assist in ensuring your safety every time you strain your fuel prior to light. At night, it’s safe & easy to use. The Sure Check Fuel Light, when used with your fuel test tube, will light up all the water and debris that might be present. The case is made of durable aluminum, weighs only 2.2 ounces, is 3” long, and uses a 12 volt battery to power a high intensity white LED light build. The casing is sealed with a strong neoprene rubber seal to keep any fuel from leaking into the case. Color: Red. Made in USA. P/N 13-04207 $17.95

VANTAGE Vue wireless weather station

Weather Station P/N 13-11572 $599.00
Mount Pole Kit P/N 13-11576 $32.50
Mounting Tripod P/N 13-04569 $99.75
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.

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</tr>
</tbody>
</table>

www.aircraftspruce.com

Prices Subject to Change Without Notice
PILOT FLASHLIGHTS

SUREFIRE G2X™ PRO
A polycarbonate-body version of the 6PX Pro, this 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 pre-focused 200-lumen beam, and a 15-lumen low-output setting that lets you greatly extend the run time of your battery. An invaluable option when you find yourself miles from civilization. Press the tailcap switch for momentary-on low, press further to click constant-on low, return to off and press or click on again within two seconds for high. A polycarbonate micro-textured reflector delivers a comparatively wider beam with generous peripheral light. ...........P/N 13-10290 .............$69.95

SUREFIRE G2Z-MV COMBATLIGHT® FLASHLIGHT
SureFire’s single-output G2Z™ Combatlight® flashlights were designed and built specifically for tactical use—features a proprietary reflector that shapes the high-output LED’s 650 lumens of light into a smooth, seamless MaxVision Beam™ optimized for your field of vision. With its designed 14 mm bezel, the compact G2Z is even smaller and lighter in weight than its predecessor, generates nearly twice the light that’s perfect for closer-range applications and maintaining situational awareness. .................................................P/N 13-20652 .............$199.00

SUREFIRE E1B-MV BACKUP™ FLASHLIGHT
The sleek, ultra-compact E1B-MV was originally developed as backup lights for law enforcement pros. This outstanding everyday-carry light sets itself apart from the rest of the Backup family with its broad, useful MaxVision Beam™, created by a special faceted reflector that shapes a LED’s light into a smooth, seamless beam with generous peripheral light. ...........P/N 13-20654 .............$269.00

SUREFIRE AVIATOR® DUAL-OUTPUT LED FLASHLIGHT
The ultra-compact, dual-output Aviator reinvents a classic SureFire design to provide a primary white LED and secondary colored LED in one sealed head, both focused into a useful beam with ample reach and surround light by a proprietary Total Internal Reflection (TIR) lens. Pull and twist Aviator’s self-locking selector ring to set it to white or colored light, no filter required. .................................................P/N 13-20655 .............$269.00

SUREFIRE P3X FURY® DUAL-OUTPUT LED FLASHLIGHT
The P3X Fury has a virtually failure-proof ultra-high-output LED that delivers your choice of either 1,000 blinding lumens of perfectly focused light or 15 lumens of useful light. The 1,000-lumen output — with peak beam intensity of 22,000 candelas — is enough for searching, signaling, or to overpower the dark-adapted vision of a threat. The 15-lumen output level is perfect for general work at close-to-medium distances and lets you greatly extend the flashlight’s runtime on a set of three lithium 123A batteries. .........................................................P/N 13-20656 .............$199.00

SUREFIRE P3X FURY® WITH INTELLIBEAM™ FLASHLIGHT
This innovative, automatic, and adjustable version of the original P3X Fury takes full advantage of the variable-output capability of one of SureFire’s brightest LED flashlights and operates continuously. SureFire’s proprietary IntelliBeam™ Technology—an intelligent sensor and microprocessor-based system—that continuously evaluates your environment and seamlessly adjusts light output, from 15 up to 1,000 lumens, based on the scope of your surroundings. Just press or click its tailcap switch to access this auto-adjusting mode, which delivers just the right amount of light output. .........................................................P/N 13-20657 .............$229.00

SUREFIRE SIDEKICK RECHARGEABLE KEY CHAIN FLASHLIGHT
This ultra-compact, powerful LED illuminator was created so it could be carried and used by everyone. The rechargeable Sidekick was designed to attach to keys so it’s always available and, most importantly, ready for everyday use and emergencies. The Sidekick features three levels of output that will provide security and peace of mind, no matter what. On high and operated just like a key FOB, its wide, smooth 300-lumen MaxVision Beam™ illuminates all dark areas at night. .................................................P/N 13-20658 .............$69.99

SUREFIRE MINIMUS™ HEADLAMP
The model that launched SureFire headlamps into best-in-class status. Minimus provides the right amount of light—13 preset outputs up to a max of 300 lumens—precisely where you need it, thanks to its adjustable output knob and rotatable LED housing. .........................................................P/N 13-20659 .............$179.00

SUREFIRE MAXIMUS™ HEADLAMP
The SureFire Maximus™ rechargeable variable-output LED headlamp delivers an amazing 1,000 lumens of light—enough to illuminate your entire campsite. If that’s too much light, you can dial it down to 1 lumen—or any level in between—for close 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 .............$249.00
**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 lumens @ 20mA, and a luminous efficacy up to 75 lumens/watt.

**XEVision personal LED flashlight models** - 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.

**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. Two 3 VDC CR123A batteries (Lithium), not rechargeable.

**XV-C2C** - Offers 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 3 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>
</tr>
</thead>
<tbody>
<tr>
<td>WF-138C</td>
<td>Charger for a single or pair of over-discharge protected R-CR123A rechargeable Li-Ion cells, comes with 2 R-CR123A batteries.</td>
<td>13-05141</td>
<td>$59.90</td>
</tr>
<tr>
<td>WF-138C</td>
<td>Just the charger - for the WF-123 combo package</td>
<td>13-05140</td>
<td>$27.50</td>
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<tr>
<td>ICR123</td>
<td>These ICR123 rechargeable 3 V batteries used for the XV-C2V LED flashlight. Note that the standard CR123A batteries must not be recharged!</td>
<td>13-05139</td>
<td>$32.90</td>
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<tr>
<td>CR123A</td>
<td>1. Titanium 3 V CR123A battery. For the XV-C1C LED flashlight. Prevents excessive discharge that can damage lithium cells and may lead to catastrophic incidents.</td>
<td>13-05142</td>
<td>$1.95</td>
</tr>
<tr>
<td>CR123AX</td>
<td>2. Titanium CR123A batteries are carefully matched and form one single sealed unit, 3 V but double capacity. Used for the XV-C2C LED flashlight. Prevents excessive charge that can damage lithium cells and may lead to catastrophic incidents.</td>
<td>13-05145</td>
<td>$3.95</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.

**PILOT’S HANGY LANYARD LIGHT**

**AIRCRAFT SPRUCE LED PILOT’S FLASHLIGHT**


**LARRY POWER LED WORK LIGHT**

The Larry™ is BRIGHTER THAN EVER! Now, equipped with COB LED technology, the Larry™C outputs 170 lumens of intense light. The rotating magnetic clip gives you convenient hands-free lighting by attaching to virtually anything. The reinforced plastic body design is water and impact-resistant, making this light basically indestructible. Powered by 3 AAA batteries (included). Size: (H) 6.375" x (W) 0.55" x (D) 1.25". 0.187 lbs. P/N 13-18551 ............ $8.50

**COAST PX20 DUAL LED FLASHLIGHT**

The PX20 Dual Color LED Flashlight combines five super bright white LEDs with one red LED. Each LED is controlled by a separate switch, allowing you to turn on the desired color with one click; no cycling through switch modes to find your color. The white light is for general flashlight use, while the red LED is perfect when you only need minimal light, such as when reading a map. A lightweight aluminum casing offers great durability and will hold up to heavy daily use. P/N 13-12045 ............ $27.95

**LIGHT BUDDY**

Light Buddy fits a swivel magnetic mount fits Maglite XL 50 XL 100 or any 1" light. Flashlight not included.

**SUPERBRIGHT 9-LED FLASHLIGHT**

Nine LEDs provide extremely bright illumination, with a much more natural hue than incandescent bulbs. LEDs are also very miserly on power — one set of batteries can last for days of continuous use. A unique canister holds three AAA batteries (included), yet allows a very short length. P/N 13-12076 ............ $19.95

**CSI QUATRO FOUR COLOR UV LED FLASHLIGHT**

The CSI QUATRO™, appropriately named, incorporates 4 distinct light colors for many different uses. Featuring a high-power 75 lumen White LED, 5 Green LED’s, 5 UV LED’s, and a red laser pointer, this sleek flashlight is water and impact-resistant. Powered by 3 AAA batteries (included). P/N 13-18174 ............ $22.50

**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.

**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. • Excessive brightness regulation circuitry – keeps the LEDs shining bright as batteries lose charge. • 9 Volt Battery & 20 inch neck strap included

White & Red ............. P/N 13-06990 ............ $32.90
Red & Green ............. P/N 13-06991 ............ $32.90

Prices Subject to Change Without Notice

Www.Aircraftspruce.com
FLASHLIGHTS

FLITELTE A1 TACTICAL AVIATOR SERIES

FLASHLIGHT
Specially designed for the aviator and tactical operations to avoid being blinded by a flashlight that is too bright in the cockpit. The light starts in a programmable memory mode, which is user programmable to any brightness level desired. ...P/N 11-11259 ...........................$54.99

FLITELTE L1 TACTICAL AVIATOR SERIES

LED FLASHLIGHT
Specially designed for the tactical aviator that requires a rugged, easy to control light that delivers CREE LED light through a MOON (the exact spot desired) lens.

NEBO POWER AND LIGHT / RECHARGEABLE

FLASHLIGHT
This portable, rechargeable flashlight serves as a backup power source for mobile phones and other rechargeable USB electronic devices. Ideal for travel, the PaL conveniently fits in your pocket, purse or briefcase. High-power 50 lumen LED. Fully rechargeable. Power bank for your USB powered devices. Anodized aircraft-grade aluminum; impact-resistant. USB & Micro USB charging ports. Apple® & Android™ compatible. Charging indicator tells charging status of flashlight and your USB powered devices.

SMITH & WESSON GALAXY 12 LED FLASHLIGHT
The Galaxy 12 LED Flashlight showcases our latest developments in flashlight versatility. This dual switch flashlight utilizes two buttons, one giving its user 6 White LEDs and the second provides a choice of 2 Blue/2 Red/Green LED modes. The shatterproof LED diodes last over 110,000 hours, are visible for over one mile, and will NEVER need replacing. Coupled with a limited lifetime warranty, these flashlights will protect you for a lifetime. Black Matte Aluminum. Includes 3 (AAA) batteries and deluxe nylon holster with extra battery storage. 
P/N 14-021999...............................$26.75

SMITH & WESSON GALAXY 28 LED FLASHLIGHT
The Galaxy™ Series 2800RBW LED Flashlight is Constructed from Anodized Aircraft Aluminum in Matte Black; Shatterproof, Scratch-Resistant Polymer Lens with Anti-Reflective Coating; 20 White LEDs; 4 Red LEDs; 4 Blue LEDs; Double “O” Ring Sealed for Waterproofing and Extreme Weather and Corrosion Resistance; Nylon Holster with Duty-Belt Sized Opening and Velcro Loop Attachment with Spare Battery Compartment. 
P/N 14-03067...........................$36.95

SEE OUR WEBSITE FOR MORE SMITH AND WESSON AVIATION FLASHLIGHTS.

BITE-A-LITE FLASHLIGHT MOUTHPIECE
A clever mouthpiece for comfortably holding a flashlight with your teeth. Fits most “AA” or “AAA” size quality aluminum flashlights. Note: flashlight not included. This is the mouth piece only.

DETACHABLE BULB LIGHTS
This flexible light is available for the Pilots lap desk or the Fly informed kneeboard & calculator.

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

FLITELTE FINGER LIGHT
MiltyLite® is made of unbreakable space age polycarbonate resin and is 4-3/4” (11.3 cm) in length. Its Laser Spot Xenon® lamp module can cut through water, smoke, fog and rain making it a perfect light source for all applications. Rotary on/off switch. The MiltyLite® is ATEX, FM, CSA and AUS approved and water resistant (not for diving applications). Color: Black. 
P/N 13-02238 ..............................$15.60

MITYLITE FLASHLIGHT BLACK
A simple light that attaches to the finger. An integrated, battery saving 10-minute auto-off. Simple touch the button and light will shine wherever the pilot points. Colors: Green ………P/N 13-07275 ...........................$8.50 White ………P/N 13-07276 ...........................$7.95 Red ………P/N 13-07277 ...........................$8.50

WWW.AIRCRAFTSPRUCE.COM
The Guppie carabiner detent will open bottle caps and metal jar lids. It’s easily carried in your pocket or on gear, which gives a lot of versatility. One more trick: use the blade slot as a high-intensity LED light. It has two strong magnets that hold it securely to one hand using the blade slot. The removable bit carrier is also a flashlight holder.

### 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 Gemini models for smaller flashlights and Gemini models for larger flashlights.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Color</th>
<th>Part No.</th>
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<td>Aircraft Log</td>
<td>4-1/2&quot;x7&quot;x1/4&quot;</td>
<td>Black</td>
<td>13-03086</td>
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<td>Engine Log</td>
<td>4-1/2&quot;x7&quot;x1/2&quot;</td>
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<td>Gray</td>
<td>13-03090</td>
<td>$16.95</td>
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</table>

### GEMINI MAGNETIC FLASHLIGHT HOLDER

The adjustable wrench jaw opens to 1/2" so you can use it for all kinds of light repair and assembly jobs. Thanks to the carabiner gate, the Guppie is easy to carry on a belt loop, D-ring, pack or rope. (But it is not a weight-bearing carabiner.) The high-carbon stainless steel blade with a Razor-Sharp edge can be opened and closed with one hand using the blade slot. The removable bit carrier is also a high-intensity LED light. It has two strong magnets to hold it securely to the Guppie’s left side. The stainless steel clip will hold the Guppie in your pocket or on gear, which gives a lot of versatility. One more trick: The Guppie carabiner detent will open bottle caps and metal jar lids.

<table>
<thead>
<tr>
<th>Description</th>
<th>Blade Length</th>
<th>Blade Steel</th>
<th>HRC Handle Length</th>
<th>Tool Weight</th>
<th>Bit Carrier Weight</th>
<th>Batteries</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Guppie</td>
<td>2.0&quot; (5.1 cm)</td>
<td>3Cr13</td>
<td>3.5” (8.9 cm)</td>
<td>4.1 oz. (116 g)</td>
<td>1.2 oz. (34 g)</td>
<td>Two CR327 3V Lithium</td>
<td>$38.95</td>
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### FLASHLIGHT HOLDERS - ARM RESTS

#### 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 carpal tunnel syndrome. They can also be used for throttle rests. Color: Black. ABS plastic. Furnished as right/left set.

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>CigPen</td>
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<td>CigPen Holder</td>
<td>$18.75</td>
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<td>CigPen Old Ashtray</td>
<td>$29.95</td>
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<tr>
<td>CigPen Holder</td>
<td>$29.95</td>
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</table>

#### MAP, CHECKLIST & LOG BOOK HOLDERS

These holders come in three sizes to store your maps, checklists and log books. They are thermoformed from ABS plastic and come in either black or gray.

<table>
<thead>
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<th>Color</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
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<td>Aircraft Log Holder</td>
<td>9&quot;x10&quot;x5/8&quot;</td>
<td>Gray</td>
<td>13-03088</td>
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<td>Aircraft Log Holder</td>
<td>4-1/2&quot;x7&quot;x1/4&quot;</td>
<td>Gray</td>
<td>13-03089</td>
<td>$21.50</td>
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<td>Engine Log Holder</td>
<td>6-1/2&quot;x7&quot;x1/2&quot;</td>
<td>Gray</td>
<td>13-03090</td>
<td>$16.95</td>
</tr>
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</table>

#### PLANE POCKETS

Nine pockets protect and organize your cockpit and keep your equipment like new. Three large pockets with zippers hold POH Charts, Approach Plates, Sectionals. An additional three more pockets are designed to hold your handheld radio, cameras, manuals, batteries, oxygen mask, and many other items. Top pockets will hold paper, sunglasses, water, flashlights and cables. Lightweight, rip-stop nylon, easy to install. Your headrest must be able to be removed to install pockets. Must supply number of inches between the centers of headrest post.

<table>
<thead>
<tr>
<th>Description</th>
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<td>Headrest With CigPen</td>
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### GEMINI MAGNETIC FLASHLIGHT HOLDER

The Guppie carabiner detent will open bottle caps and metal jar lids. It’s easily carried in your pocket or on gear, which gives a lot of versatility. One more trick: use the blade slot as a high-intensity LED light. It has two strong magnets that hold it securely to one hand using the blade slot. The removable bit carrier is also a flashlight holder.
LEATHERMAN POCKET TOOLS

LEATHERMAN SQUIRT PS4
The Leatherman Squirt PS4 is the first miniature pliers multi-tool tough enough to be a Leatherman. Now the Squirt also sports a scissors, making it even more useful than before. The key ring attachment offers the flexibility to place it on your key chain, backpack or even a zipper. Just two ounces, it’s light enough to take anywhere. Fits nicely on a key ring. Color: Blue. Weight: 1.9 oz. Length (Closed): 2.25 inches / 5.72 cm (Closed).


P/N 13-07069 $59.95

LEATHERMAN SQUIRT ES4
The E4 sets you up with 20GA, 18GA, 16GA, 14GA and 12GA wire strippers and electrical pliers. The gripping edges on the ES4’s spring-action pliers help you get a firm grasp on fuses, small cables, and many hard-to-reach items. P/N 13-09289 $34.95

JUICE® S2

P/N 13-05559 $69.95

JUICE® C2

P/N 13-05560 $45.95

JUICE® XE6
The Leatherman Juice XE6 has it all. Our beetled-in the Juice line, it’s still great for small hands and spaces and even features a corkscrew. So saw away some branches to set up the perfect picnic spot, tighten up those picnic chair bolts, bring out the vino and slice up some cheese and crackers. The all new Juice XE6, now with textured anodized aluminum scales in Granite or Moss - is there anything it can’t do?

Closed Length: 3.25 In. 8.25 cm. Weight: 6.9 Oz. 195 g. Primary Blade Length: 2.27 In. 5.77 cm.

P/N 13-13369 $99.95

LEATHERMAN SKELETOOL, CX

LEATHERMAN SKELETOOL

Skeletool: P/N 13-07068 $59.95

Skeletool with sheath: P/N 13-07069 $59.95

CRUNCH TOOL
Locking Pliers, Wire Cutters, Hard-Wire Cutters, Serrated Knife, Metal/Wood File, Ruler (Inch/Metric), Bottle Opener, Small Screwdriver, Medium Screwdriver, Large Screwdriver, Phillips Screwdriver (#1/#2), Hex Bit Driver, Wire Stripper, Lanyard Attachment.

P/N 13-02727 $109.95

WAVE TOOL
Needle Nose Pliers, Regular Pliers, Wire Cutters, Hard-Wire Cutters, Clip-Point Knife, Serrated Knife, Saw, Scissors, Wood/Metal File, Diamond-Coated File, Large Bit Driver, Small LB Driver, Large LB Driver, Screwdriver, Ruler (8 inch/19 cm), Bottle/Can Opener, Wire Stripper, Lanyard Attachment, Two Double-Ended Bit Drivers...

P/N 13-02828 $89.95

SIDEKICK

P/N 13-11703 $49.95

SUPER TOOL 300

P/N 13-11704 $79.95

CHARGE TTI
The Charge TTI features a cutting hook, scissors, outside-accessible blades, bit drivers, crimpers and more. But we had to give the TTI its own claim to fame. That’s where the comfort-sculpted titanium handles and the 530V® stainless steel clip-point knife come in. Grab a hold of one today and you’ll quickly see why the Charge models are the pinnacle of our multi-tool collection.

P/N 13-04514 $169.85

REBAR

P/N 13-12777 $59.95

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 530V stainless steel knife blade. Comes with a nylon sheath.

P/N 13-21325 $169.95

LEATHERMAN MICRA
Spring-action scissors and personal care features that fit on your key chain are just part of what makes the Micra truly unique. Features: Scissors, Clip-Point Knife, Tweezers, Nail File/Cleaner, Flat Phillips, Screwdriver, Extra Small Screwdriver, Medium Screwdriver, Bottle Opener, Ruler (Inch / Metric), Lanyard Attachment, Length: 2.5 in. / 6.35 cm closed. Weight: 1.75 ounces / 50 Grams.

Materials: 100% stainless steel (Optimum grade hardness for each tool/blade). Color: Blue.

P/N 13-07079 $29.95

VISIT OUR WEBSITE TO VIEW OUR COMPLETE LISTING FOR LEATHERMAN TOOLS.

WWW.AIRCRAFTSPRUCE.COM

1025
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, or cause electrolysis or vibration. Sold in 9", 12", and 24" sizes. Larger sizes are available on request. Color: international orange. Stocked in Tana marker style JX. Styles SD, KJ, AR, XL, and BN are available by special order. Please Request a Quote.

9" diameter with Tape P/N 13-18710 $79.95
9" diameter w/o Tape P/N 13-18711 $90.95
12" diameter with Tape P/N 13-00057 $122.75
12" diameter w/o Tape P/N 13-00058 $183.75
24" diameter with Tape P/N 13-00059 $268.00
24" diameter w/o Tape P/N 13-00060 $137.75

Safety Step Accessories

LO-COMMERICAL 6 INCH SAFETY STEP


JX COMMERCIAL 8 INCH SAFETY STEP


FOLDING SAFETY STEPS

Large P/N 13-18579 $76.75
Extra Large P/N 13-18580 $105.75

INDUSTRIAL SAFETY STEPS


SAFETY STEP ACCESSORIES

For easy, DIY pest control. Real sounds – digital playback of naturally recorded threats. Covers up to 1 acre. Repels: pigeons, starlings, sparrows and gulls. P/N 13-00091 $222.95

WWW.AIRCRAFTSPRUCE.COM
PILOT WATCHES

CITIZEN ECO-DRIVE STRAP
180 MENS WATCH
For a rugged look with a comfortable fit, this military-inspired timepiece fits the bill. With a day-date indicator, luminous hands, 37mm screw-back case, and 100M WR. The black dial provides a backdrop for simple Arabic numerals housed in a stainless steel case along with a woven green strap with patterned stitching and a buckle clasp.

P/N 13-19311  ...... $175.00

CITIZEN ECO-DRIVE
CHRONOGRAPH
STAINLESS STEEL
The perfect mix of dress and sporty make up this Drive from Citizen HTM time-piece. Featured in stainless steel with a bright white dial, 1/5-second chronograph measuring up to 60 minutes, 12/24-hour time, date and water resistant up to 100 meters.

P/N 13-19312  ...... $295.00

CITIZEN ECO-DRIVE
PERPETUAL CALENDAR
MENS WATCH
This perpetual calendar chronograph loaded with features including a 1/20 second chronograph measuring up to 60 minutes, 12/24 hour time, dual time, date, alarm, and luminous hands. The 44mm stainless steel case is complemented by a brown leather strap with white contrast stitching. Also includes a screw-back case and 100M WR.

P/N 13-19309  ...... $395.00

CITIZEN ECO-DRIVE
NIGHTHAWK MENS MESH STRAP
Soar to new heights with Citizen Nighthawk, a flight watch for both novice and professional pilots. Nighthawk features a pilot’s slide rule dial ring operated by a crown at the 8 o’clock position, dual time, date and large luminous markers and hands for easy readability. Featured here in stainless steel with a mesh bracelet, black dial and red accents.

P/N 13-19307 ...... $395.00

CITIZEN ECO-DRIVE
CHRONOGRAPM MENS WATCH
Take things up a notch with this perpetual calendar chronograph. Includes a 1/20 second chronograph up to 60 minutes, 12/24 hour time, dual time, tachymeter, date, alarm and non-reflective crystal. The 43mm titanium case sports a one-way rotating elapsed time bezel & screw-back case with a brown leather strap with contrast stitching and 200M WR.

P/N 13-19308  ...... $415.00

CITIZEN ATOMIC SKYHAWK A-T
ECO-DRIVE CHRONOGRAPH WATCH
Redefining atomic timekeeping with a turbine inspired bold and powerful watch. The newest edition of the Citizen Skyhawk A-T collection is remarkably dynamic and visually appealing. With atomic timekeeping is 43 cities, this chronograph watch features a perpetual calendar, dual time, alarms, countdown timer, digital backlight and UTC displays, power reserve and pilot’s rotating slide rule bezel. This model appears with a honed stainless steel case, black polyurethane strap, black dial and black bezel with unique case and dial motifs.

P/N 13-19314  ...... $695.00

CITIZEN PERPETUAL CAL
CHRONOGRAPH WATCH
Boldly daring, this sporty watch conveys maximum info at a glance. This 1/20 second chronometer measures up to 60 minutes, with perpetual calendar, 12/24 hour time, dual time, alarm, and rotating inner ring. Features include a silver dial and oversized 48mm stainless steel screw-back case, and is 100M WR. Stainless Steel Bracelet, Fold Over Clasp with Hidden Double Push Button and Features include a silver dial and oversized 48mm stainless steel screw-back case, and is 100M WR. Case Material is Stainless Steel with a Silver Tone Dial. (Note): Shipping within the USA only.

Stainless .................................................. P/N 13-16305 ...... $356.25

VISIT OUR WEBSITE FOR OUR COMPLETE CITIZEN PRODUCT LISTING.

VISIT OUR WEBSITE FOR OUR COMPLETE ABINGDON PRODUCT LISTING.

ABINGDON WATCHES

In this collection, the function of a rotating bezel slide rule comes together with the classic analog face to present a timeless purity of curves and lines. An elegant chronograph.

<table>
<thead>
<tr>
<th>Description</th>
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<td>Elise Anthenian Silver Watch</td>
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<td>Katherine Frequent</td>
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WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
PILOT WATCHES – SUNGLASSES

ZULU-03 ALTIMETER VINTAGE WATCH 9060VW
Aircraft Spruce is proud to introduce the new Zulu-03 Vintage Series of Cockpit Inspired Aviator Watches by Trintec. Due to numerous advances in the watch making industry, Trintec is now able to offer unprecedented value and quality in this new line of watches. This watch features an Instrument Styled Casing and Dial which simulate the instruments found in an aircraft cockpit. Features: • Solid 316 Stainless Steel and Black PVD case • 8215 Miyota Japanese Automatic Movement • Scratch Resistant Mineral Crystal • Screw Down Crown • Water Resistant to 5 ATMS • Quality Silicone Rubber Strap. Specs: • Case: 42mm x 42mm • Lug: 22 mm • Thickness: 13mm. P/N 13-11545 $555.00

ZULU-03 DIRECTIONAL GYRO VINTAGE WATCH 9062VW
Aircraft Spruce is proud to introduce the new Zulu-03 Vintage Series of Cockpit Inspired Aviator Watches by Trintec. Due to numerous advances in the watch making industry, Trintec is now able to offer unprecedented value and quality in this new line of watches. This watch features an Instrument Styled Casing and Dial which simulate the instruments found in an aircraft cockpit. Features: • Solid 316 Stainless Steel and Black PVD case • 8215 Miyota Japanese Automatic Movement • Scratch Resistant Mineral Crystal • Screw Down Crown • Luminescent Hand & Numerals • Water Resistant to 5 ATMS • Quality Silicone Rubber Strap. Specs: • Case: 42mm x 42mm • Lug: 22 mm • Thickness: 13mm. P/N 13-11546 $475.00

ZULU-03 CLOCKSTYLE VINTAGE WATCH 9067VW
Aircraft Spruce is proud to introduce the new Zulu-03 Vintage Series of Cockpit Inspired Aviator Watches by Trintec. Due to numerous advances in the watch making industry, Trintec is now able to offer unprecedented value and quality in this new line of watches. This watch features an Instrument Styled Casing and Dial which simulate the instruments found in an aircraft cockpit. Features: • Solid 316 Stainless Steel and Black PVD case • 8215 Miyota Japanese Automatic Movement • Scratch Resistant Mineral Crystal • Screw Down Crown • Luminescent Hand & Numerals • Water Resistant to 5 ATMS • Quality Silicone Rubber Strap. Specs: • Case: 42mm x 42mm • Lug: 22 mm • Thickness: 13mm. P/N 13-11547 $475.00

SCHYEYDEN TRUE AVIATOR STEAM GAUGE WATCHES
True Aviator Series Steam Gauge, precision watches designed by pilots for pilots - engineered to last a lifetime. Features 3 Stand Alone Instruments. Removable Liquid filled Magnetic Compass. Swiss ISA Movement Watch with matte black dial. Removable Digital IFR Timer, includes two SS band links when one or both instruments are removed. Water Resistant to 66 Feet (3 ATM).

| Natural Stainless Steel | P/N 13-14796 | $2,992.00 |
| Black Stainless Steel | P/N 13-14809 | $2,992.00 |
| Gold Stainless Steel | P/N 13-14810 | $2,992.00 |

FLYING EYES GOLDEN EAGLE SPORT SUNGLASSES
Flying Eyes Golden Eagle sunglasses are designed to be amazingly comfortable under a helmet or aviation-style headset. These ComfortStyle sunglasses are made of Resilamide™ frames and temples, a material that is primarily used in aerospace. This very costly polymer material makes these glasses virtually unbreakable and yet super light and flexible. Their 1mm thin temples and their flexibility mean that you will not feel them while wearing a helmet or aviation-style headset. And no more noise leaks while wearing a headset either!

<table>
<thead>
<tr>
<th>Frame</th>
<th>Lens</th>
<th>Part No.</th>
<th>Price</th>
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FLYING EYES KINGFISHER SUNGLASSES
Flying Eyes Kingfisher sunglasses are designed to be amazingly comfortable under a helmet or aviation-style headset. These ComfortStyle sunglasses are made of Resilamide™ frames and temples, a material that is primarily used in aerospace. This very costly polymer material makes these glasses virtually unbreakable and yet super light and flexible. Their 1mm thin temples and their flexibility mean that you will not feel them while wearing a helmet or aviation-style headset. And no more noise leaks while wearing a headset either!

<table>
<thead>
<tr>
<th>Frame</th>
<th>Lens</th>
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</table>

VIBRALITE MINI BLACK
The smallest, high quality, user friendly Vibration Alarm Watch available. Vibration, Audible or Both Set easily in Option Mode. Text on display prompts you. Button Alert feature will confirm your setting quickly. 12 Daily Alarm Settings Preset for variable reminders. 20 second duration alarm with auto off or can be turned off by pushing any button. Countdown Timer with Auto Repeat. Black With Nylon Band P/N 11-11135 $51.75 Purple Flower Band P/N 11-11136 $51.75 Blue W/ Hook And Loop Band P/N 11-11137 $51.75

Price Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
SUNGLASSES

RAY-BAN AVIATION SUNGLASSES

Ray-Ban is the leading brand in the high quality sunwear market segment and by far the best-selling sunwear 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.

<table>
<thead>
<tr>
<th>Style</th>
<th>Frame</th>
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G-15XLT is a Grey Color

SCHYEYEN CLASSIC FLIP-UP SUNGLASSES

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Lens Color</th>
<th>Part No.</th>
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SCHYEYEN DUAL RX SUNGLASSES

The ability to instantly & effortlessly adapt to changing light conditions while keeping your prescription lenses in place. Supplied with a lens template which is all you local optician needs to fabricate your prescription lenses. See photos above for frame styles.

<table>
<thead>
<tr>
<th>Model</th>
<th>Lens Color</th>
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</table>

SCHYEYEN FIXED GEAR SUNGLASSES

The thin titanium ear-pieces fit comfortably under a headset and are small enough that they won’t interfere with the ANR seal. Fixed Gear Mavericks are the choice of the US Air Force Thunderbirds. High Contrast Light Bronze lens offers 100% UVA & UVB protection and is recommended for low light conditions.

<table>
<thead>
<tr>
<th>Model</th>
<th>Lens Color</th>
<th>Part No.</th>
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SCHYEYEN FIXED HYBRID COMPOSITE SUNGLASSES

Stylish composite frames have been combined with HiNiHg (High Nickel Silver) temples enabling full wrap frames that fit comfortably under a headset without disturbing the ANR seal. The frames will easily slide down the wearer’s nose and back up again to adapt to changing light conditions with the push of a finger. Scheyden Deluxe Case Pack is included.

<table>
<thead>
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SCHYEYEN FIXED HYBRID COMPOSITE SUNGLASSES

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<tr>
<td>13-06992</td>
<td>ReveilStroke Gray CR39</td>
<td>$259.00</td>
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</table>

Glass, Non-Polarized, and Polarized are available.

WWW.AIRCRAFTSPRUCE.COM
SUNGLASSES

VEDALOHD™ PERFORMANCE SUNGLASSES
High-Definition Lens Technology (HDL-3C™), built into new sunglasses offer improved sight definition for pilots, using color, clarity and comfort. These lenses filter the visible spectrum to improve color contrasts; decentered lenses increase visibility and eliminate distortion; visual health is improved and eye fatigue is reduced thanks to lightweight frames. Visibility is said to be increased through tri-stimulus color contrast enhancing techniques; other color tinting techniques improve color simulation but only improves one basic color type in the color spectrum.

These non-polarized (important for pilots!) lenses come in two lens types: rose (for low light conditions), and smoke (for bright light conditions). The sunglasses are very lightweight and comfortable. We offer a 30-day money back guarantee if you’re not satisfied. Several choices for frames are available.

FRAME STYLES

ROSSO2 (HINGED)

AZZURRO2

CARBONE

VERONA

ROMA

Ultra Light

Fashion Rectangle

Teardrop Aviator

Contemporary Aviator


SERENGETI AVIATOR SUNGLASSES

Serengeti Aviators protect your vision while eliminating glare and sharpening details better than other sunglasses. Cloud boundaries are more easily delineated and oncoming traffic is more visible. Unique photochromic spectral controls improve your ability to see in marginal VFR and IFR conditions. In bright sunlight, you’ll see the instruments better and ghost images will be eliminated from the cockpit. Wear them late in the day or at sunset to preserve your night vision.

LARGE AVIATOR SUNGLASSES

Base Curve: 6; Temple Length: 140mm. Lens Size: 57.75 x 55.5 x 68mm, Dbi 10.5mm Black
P/N 2121............ $99.95

DANTE SUNGLASSES

Uniquely fashioned temples distinguish Dante from the crowd. Wire-flex technology automatically adapts for an impeccable fit. All Serengeti lenses offer the latest in photochromic technology, which constantly lightens and darkens throughout the day to ensure you see every detail.

NORCIA SUNGLASSES

Designed to keep you comfortable anywhere, the Norcia integrates the best style cues with the best comfort innovations. Double injected stainless steel and elastomer temples and adjustable nose pads provide an ideal fit for a broad range of faces. P/N 13-15088... $239.00

ROTHCO G.I. TYPE PILOT SUNGLASSES


Frame Lens Part No. Price
Glossy Black Frame/Solid Grey Lens ........P/N 13-16455 ........ $169.00
Glossy Black Frame/Gradient Lens ..........P/N 13-16453 .......... $179.00
Matte Black Frame/Solid Grey Lens ........P/N 13-16456 .......... $169.75
Matte Black Frame/Gradient Lens ..........P/N 13-16454 .......... $179.00

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.

Frame Lens Part No. Price
Gold/Brown 14-02118 $11.99
Gold/Mirror 14-02121 $11.99
Gold/Mirror 14-02120 $11.99
Gold/Mirror 14-02121 $11.99
Gold/Mirror 14-02120 $11.99
Gold/Mirror 14-02121 $11.99

GLASS SUNGLASSES

Price Subject to Change Without Notice

WWW.AIRCRAFTSPRICE.COM
RA VISION HIGH PERFORMANCE SUNGLASSES

These high performance sunglasses are specifically designed for use with helmets and headsets. The Frame: The frames are made of lightweight and flexible titanium metal that easily slide thru the ear pad of the helmet or headset. The lenses contour the head and allows for the seal of noise canceling earpieces to be maintained. The “wrap” or curvature of the frames and lenses allows sun protection for the wearer’s peripheral vision as well as forward facing. The Lens: The lens is made of a revolutionary Trivex® material that features optical qualities similar to glass and surpasses the light weight and scratch resistance of polycarbonate lenses while providing 100% protection against UVA and UVB rays.

Grays .................................................. P/N 13-11671 ..................$99.00

Belt Loop Eye Glass Case

Safe and secure way to make sure your glasses, cell phones and other items are always available. The case has a pen pocket and accessory strap to attach a pager, a small flashlight or clip item. 1000 dernier cordura exterior, soft padded durable lining. Black color.
P/N 13-00699 ................. $12.95

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) GENERAL (OVAL)

52MM .... P/N 13-03212 ........... $82.75

52MM .... P/N 13-03214 ....... $85.75

58MM .... P/N 13-03215 ....... $86.75

AV-SUN SUNGLASSES

Sunglasses for pilots with excellent vision. Feature gradient tint with UV protection, the same tint as used by U.S. fighter pilots! Allow you to see air traffic under bright conditions outside and maps and instruments under low light conditions inside.

AV-SUN 180 AV-SUN GOLD AVIATOR AV-SUN GOLD PILOT

P/N 13-12763 . $139.95 P/N 13-12755 .... $59.95 P/N 13-12756 .... $59.95

AV-SUN TITANIUM CLASSIC AV-SUN TITANIUM FLYER AV-SUN TITANIUM AVIATOR

P/N 13-12758 ... $79.95 P/N 13-12759 ... $79.95 P/N 13-12760 .... $79.95

XCAPE ELECTRIC SCOOTERS

A pilots best friend! Having trouble getting around, waiting for taxi service or the bus after you arrive at your destination? Wait around no more! This patent technology makes folding and unfolding the scooter fast and convenient. In less than one second, the X-Bird is ready to ride or to comfortably fit into your closet or trunk. The X-Bird was built to fit in a small airplane, car trunk, bus. X-Bird scooters are made from high-quality aerospace aluminum alloy. This makes the scooter incredible strong, lightweight, and anti-corrosive. The X-Bird is the most economically and environmentally efficient means of transportation. Cut the time of your commute while having a blast doing it!

Speed: 13 miles per hour
Distance: 20-30 miles
Charging Time: 4 hours
Weight: 34 pounds
Weight Capacity: 250 pounds

Black ........................................ P/N 13-19799 .......... $999.00
White ........................................ P/N 13-19801 .......... $999.00

X-BIRD ELECTRIC SCOOTERS

A pilots best friend! Having trouble getting around, waiting for taxi service or the bus after you arrive at your destination? Wait around no more! This patent technology makes folding and unfolding the scooter fast and convenient. In less than one second, the X-Cape is ready to ride or to comfortably fit into your closet or trunk. The X-Cape was built to fit in a small airplane, car trunk, bus. X-Cape scooters are made from high-quality aerospace aluminum alloy. This makes the scooter incredible strong, lightweight, and anti-corrosive. The X-Cape is the most economically and environmentally efficient means of transportation. Cut the time of your commute while having a blast doing it!

Top Range: 25-30 Miles
Top Speed: 15 Miles
Charging Time: 4-5 Hours
Weight: 42lbs

Weight Capacity: 330lbs
Normal Dimension Folded Dimension: 37” x 21.5” x 35.8” / 939*547*910 mm
Hub Motor: 300W Brushless toothless motor
Max Motor Torque 15 N.M
Gradability: Static 8° Dynamic 15°
Braking Distance: 15mph Dry 10 ft / 3 m / 15mph Wet 17 ft / 5 m
Front Wheel: 10”
Rear Wheel: 8”

Black ........................................ P/N 13-19796 .......... $1,299.00
Green ........................................ P/N 13-19802 .......... $1,299.00
White ........................................ P/N 13-19803 .......... $1,299.00
Grey ........................................ P/N 13-19804 .......... $1,299.00

WWW.AIRCRAFTSPRUCE.COM
FLIGHT JACKETS

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.

TO ORDER FLIGHT JACKETS: Choose jacket style and color desired and order by basic part number shown. Complete the part number with size by adding -1 (Small), -2 (Medium), -3 (Large), -4 (X Large), or -5 (XX Large).

MA-1 INTERMEDIATE FLIGHT JACKET

The most popular flying jacket in the world, supplied by Alpha Industries to the U.S. Military for over 40 years. 100% nylon flight satin outer shell with nylon flight lining and polyester batting interlining for warmth. Front closure storm flap. Knit collar, waistband and cuffs. Combination utility pocket on sleeve. Pilot's MA-1 reverses to high visibility Indian Orange for use in emergencies. Colors: Black, Navy, Sage Replica Gray, Titanium, Stratos.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
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<th>Price</th>
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<td>Navy</td>
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<tr>
<td>Sage</td>
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<td>$137.75</td>
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CWU - 45/P FLIGHT JACKET


<table>
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<td>Gun Metal Grey......</td>
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<td>Replica Blue........</td>
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<tr>
<td>Airforce Green......</td>
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CHILDREN’S JACKETS

CHILDRENS MA-1 JACKETS WITH PATCHES - This is a well made reproduction of the famous MA-1 green nylon quilted. Same patches as our childrens bomber jacket.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
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<tr>
<td>MA1 Boys Large</td>
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<td>$44.50</td>
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</table>

VISIT WWW.AIRCRAFTSPRUCE.COM FOR PINK MA-1 JACKETS.

YOUTH BOMBER 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>
<thead>
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<th>Description</th>
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<tbody>
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<tr>
<td>Bomber Youth Large</td>
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CHILDREN'S MA-1 JACKETS WITH PATCHES AND A HOOD - This is a well made reproduction of the famous MA-1 green nylon quilted childrens jackets with patches and a hood. Same as our childrens bomber jacket but with faux fur trimmed hood and a velcro closure at top.

<table>
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<td>MA1 Youth Small</td>
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<tr>
<td>MA1 Boys Large</td>
<td>13-06449</td>
<td>$39.60</td>
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</table>
**FLIGHT JACKETS**

**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.

- **X-Small**
  - P/N 14-03238
  - $41.99
- **Small**
  - P/N 14-03240
  - $41.99
- **Medium**
  - P/N 14-03241
  - $36.99
- **Large**
  - P/N 14-03242
  - $41.99
- **X-Large**
  - P/N 14-03243
  - $43.99
- **XX-Large**
  - P/N 14-03244
  - $45.99
- **XXX-Large**
  - P/N 14-03245
  - $45.99

**MA-1 BLOOD CHIT FLIGHT JACKET**

The MA-1 BLOOD CHIT jacket is one of a kind to be worn with pride. Alpha's MA-1 flight jacket with “Blood Chit” sewn on the inside lining was a type of flag that contained a message in several languages identifying an airman as a U.S. Aviator if they were shot down, to aid the airman in avoiding capture and in being returned safely to U.S. Forces. A reward was offered for this assistance.

This is a classic flight jacket made for the military for over 40 years and features nylon flight satin outer shell with reversible orange nylon lining with the Blood Chit sewn into it, front closure storm flap, knitted collar, cuffs, and waistband and Alpha signature zipperered utility/pencil pocket.

- **Small**
  - P/N 13-15005-S
  - $139.95
- **Medium**
  - P/N 13-15005-M
  - $139.95
- **Large**
  - P/N 13-15005-L
  - $139.95
- **X-Large**
  - P/N 13-15005-XL
  - $139.95

**G-1 LEATHER FLIGHT JACKET**


- **Black Small**
  - P/N 13-14998-S
  - $349.00
- **Black Medium**
  - P/N 13-14998-M
  - $349.00
- **Black Large**
  - P/N 13-14998-L
  - $349.00
- **Black XLarge**
  - P/N 13-14998-XL
  - $359.00
- **Brown Small**
  - P/N 13-15004-S
  - $139.95
- **Brown Medium**
  - P/N 13-15004-M
  - $139.95
- **Brown Large**
  - P/N 13-15004-L
  - $139.95
- **Brown XLarge**
  - P/N 13-15004-XL
  - $139.95

**B-15 FLIGHT JACKET**

The B-15 is a classic flight jacket made tough to battle the harsh elements. Features a nylon shell and removable synthetic mouton fur collar. The Alpha B-15 features button tabs once used by pilots to connect oxygen masks and headset wires. Water repellent 100% nylon flight satin outer shell and polyester filled lining. Front zipper closure with storm flap. Knit cuffs and waistband. Alpha signature utility/pencil pocket Color: Black.

- **Small**
  - P/N 13-15006-S
  - $139.95
- **Medium**
  - P/N 13-15006-M
  - $139.95
- **Large**
  - P/N 13-15006-L
  - $139.95
- **X-Large**
  - P/N 13-15006-XL
  - $139.95

**NOMEX 45/P-36/P MIL-SPEC FLIGHT JACKET**

Made in USA, this true Mil-Spec flight jacket currently issued to U.S. Air Force pilots. Made from fire-resistant Nomex material, this jacket is engineered to exceed incredibly tight tolerances and military requirements. Color: Sage. NOMEX fire resistant fabric, zipper tape, knit cuffs and waistband. Tonal Velcro patch. Front zipper closure with storm flap. Fully lined double-stitched cargo pockets with Velcro closure. Made to military specification.

- **Small**
  - P/N 13-15007-S
  - $729.00
- **Medium**
  - P/N 13-15007-M
  - $729.00
- **Large**
  - P/N 13-15007-L
  - $729.00
- **X-Large**
  - P/N 13-15007-XL
  - $729.00

**AERO SQUADRON LEATHER FLIGHT JACKET**

Made in USA, this true Mil-Spec flight jacket currently issued to U.S. Air Force pilots. Made from fire-resistant Nomex material, this jacket is engineered to exceed incredibly tight tolerances and military requirements. Color: Sage. NOMEX fire resistant fabric, zipper tape, knit cuffs and waistband. Tonal Velcro patch. Front zipper closure with storm flap. Fully lined double-stitched cargo pockets with Velcro closure. Made to military specification.

- **Small**
  - P/N 13-07206
  - $459.50
- **Medium**
  - P/N 13-07209
  - $459.50
- **Large**
  - P/N 13-07210
  - $448.00
- **XL**
  - P/N 13-07211
  - $448.00
- **XXL**
  - P/N 13-07212
  - $459.50

www.aircraftspruce.com

Prices Subject to Change Without Notice
**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.:

<table>
<thead>
<tr>
<th>Size</th>
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### SPRUCE POLO SHIRTS

SPRUCE POLO SHIRT - These are the same high quality polo shirts worn by the Aircraft Spruce Staff at Oshkosh, Sun N Fun and other airshows. Made from Dry-Excel™ close-hole Micromesh, polyester knit, with a fine gauge rib-trim collar. Three button front, open hem sleeves, and split side welts make these polos great for everyone. These polos feature 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 Aircraft Spruce logo on the front left chest. A great looking shirt that will last for years. Order size by part no.:

<table>
<thead>
<tr>
<th>Size</th>
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<th>Size</th>
<th>Part No.</th>
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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/khaki trim and “Aircraft Spruce & Specialty Co” on left chest.

<table>
<thead>
<tr>
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<tr>
<td>2XL</td>
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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 headset. Low profile cap has aircraft design on front panel and Aircraft Spruce logo on back. A great looking top quality cap Stretch fit, one size fits all. Black .... P/N 13-03895 ...... $17.95

Navy .... P/N 13-11715 ...... $17.95

### 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

P/N 13-11326 ...... $4.95

### 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 us. We will need 5 photos of the top, front, back, and both sides of your aircraft emailed to us.

Custom Aircraft Models.................................P/N 13-05837 .......... $699.00

Premium Plus Custom Models .....................P/N 13-08050 .......... $549.00

Prices Subject to Change Without Notice

**WWW.AIRCRAFTSPRUCE.COM**
FLYING GLOVES – GOGGLES – EPAULETS

NOMEX AVIATOR’S SUMMER FLYING GLOVES

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 9
- 7 to 7 1/2 inches, order Size 10
- 7 1/2 to 8 inches, order Size 11
- 8 inches or more, order Size 12

<table>
<thead>
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<th>Size</th>
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<td>12</td>
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* Grey leather palms and sage green suade topside.

Replacement Split Lenses - Tinted ............................. P/N 13-06200 ..................
Replacement Split Lenses - Smoke, Set of 2 ..................... P/N 13-06100 ..................
Replacement Split Lenses - Clear, Medium ................. P/N 13-06101 ..................
Replacement Split Lenses - Tinted, Medium .................. P/N 13-06102 ..................
Replacement Split Lenses - Clear, Large ..................... P/N 13-06103 ..................
Replacement Split Lenses - Tinted, Large ................... P/N 13-06104 ..................

Prices Subject to Change Without Notice

VINTAGE AVIATOR GOGGLES

Soft Brown or Black Leather face Mask, Hand Stitched to silver or black painted solid brass frames. Screw adjustment on nose bridge. P/N 13-06310 ............. $89.95
Replacement Split Lenses - Clear P/N 13-06100 .................. $34.80
Replacement Split Lenses - Tinted P/N 13-06200 .................. $39.75

BARMITTS FOR YOUR TRIKE

Extend your flying season and enjoy it more with these barmitts. The sides zip open to fit around the bar. The cozy insulation and wind-proof exterior keep your hands comfortable in the coldest wind. Sized to fit over your gloves.

BatMitts - Red............................................. P/N 13-07304 ...........
BatMitts - White........................................ P/N 13-07305 ...........
BatMitts - Reflective Green ........................ P/N 13-07306 ...........
BatMitts - Black ........................................ P/N 13-07307 ...........

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.

www.aircraftspruce.com for a complete listing of sizes and colors of shirts, plus ties and EPAULETS

VISIT OUR WEBSITE FOR PART NUMBERS FOR NAVY & DESERT TAN GLOVES

GENERAL UTILITY PLUS GLOVES

All-purpose and abrasion-resistant. This is the ideal performance work glove. Heavy duty non-slip reinforcement on the palm, fingers and thumb ensures lasting durability and grip. The ergonomic design reduces hand fatigue while enhancing wrist support. Features a Terry cloth brow wipe on the thumb. This glove is ideal for any number of rugged applications.

<table>
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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. Twist it on its spinning metal base for a bit of fun. P/N 13-16039 ............ $11.85

NOMEX TOUCH SCREEN COMPATIBLE FLYING GOGGLES

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 knolt 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.

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<td>Black/12</td>
<td>13-03627</td>
<td>$17.95</td>
</tr>
</tbody>
</table>

WORLD WAR II RAF FLYING GOGGLES

A faithful Replica incorporating dark brown soft leather face mask stitched to the RAF blue painted solid brass frames. The traditional Split Lenses P/N 13-05860 .................. $89.95
Replacement Split Lenses - Clear P/N 13-06102 .................. $34.80
Replacement Split Lenses - Tinted P/N 13-06200 .............. $39.75

Replacement Lenses for Silver Cross Goggles

Clear, Set of 2 P/N 13-06000 .............. $34.80
Smoke, Set of 2 P/N 13-06020 ............. $39.75

Replacement Split Lenses - Clear:  P/N 13-06100 .............. $34.80
Replacement Split Lenses - Tinted: P/N 13-06200 .............. $39.75

Color/Size  Part No.  Price  Color/Size  Part No.  Price
Black/5 13-03620  $17.95 Black/6 13-03621  $17.95
Black/6 13-03622  $17.95 Black/7 13-03623  $17.95
Black/7 13-03624  $17.95 Black/8 13-03625  $17.95
Black/8 13-03626  $17.95 Black/9 13-03627  $17.95
Black/9 13-03628  $17.95 Black/10 13-03629  $17.95
Black/10 13-03630  $17.95 Black/11 13-03631  $17.95
Black/11 13-03632  $17.95 Black/12 13-03633  $17.95
Black/12 13-03634  $17.95

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. P/N 13-06000 .............. $99.85

Color/Size  Part No.  Price  Color/Size  Part No.  Price
Black/5 13-21297  $48.00 Black/6 13-21298  $48.00
Black/6 13-21299  $48.00 Black/7 13-21300  $48.00
Black/7 13-21301  $42.00 Black/8 13-21302  $42.00
Black/8 13-21303  $42.00

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

www.aircraftspruce.com

Prices Subject to Change Without Notice
**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 casters
- Thermoplastic Urethane (TPU) more resistant to embedding chips and rivets
- 250 lb dynamic load per caster
- 1-3/16” wide tread helps rolling on rough surfaces
- Available in 3 diameters (3” - raises creeper 5/8”, 4” raises creeper 1-5/8”, 5” raises creeper 2-5/8”) larger diameters help rolling on rough surfaces
- 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. Color: Yellow. Features:
- 6 large rubber pads on bottom
- Very rough top surface to keep mechanics safe
- Ice cleats keep the step from sliding during icy winter conditions
- The Shure-Step II is a stackable step stool
- Weight: 10 pounds
- P/N: 13-11219
- $395.00

**SHURE-STEP® 2-STEP STOOL**

The 2-Step stool is 10 inches high, half as high as the Shure-Step® and 10 pounds lighter. Features:
- Durable, lightweight, and stackable
- Shure-Step® will float
- All Shure-Step® products are rated at holding 500 lbs.
- P/N: 13-11584
- $119.50

**LOCK N CLIMB LADDERS**


<table>
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<tr>
<td>4 Foot Fiberglass</td>
<td>13-15932</td>
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</tbody>
</table>

**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: Height 5 ft • Number of Steps 3
- Platform Width (In.) 13-1/2 • Height to Platform (Fl.) 3 • Bottom Width (In.) 20 • Base Spread (In.) 2 • Step Width (In.) 3 • Shipping Weight: 5.6 lbs • Anti-Slip Tread • Load Capacity (Lb.) 300 • Aluminum, ANSI Type 1A • Includes Heavy Duty Standing Platform
- P/N: 13-12017
- $134.95
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. Compact, robust, anodised aluminium enclosure. Frequency response (20Hz-20KHz). Weight: 100g. Size: 65mm(L), 55mm(W), 25mm(D). Supports Mono and Stereo Headsets. Compatible with standard microphones and PJ-055B). Supports headset impedances of 100 to 600 Ohms. Supports microphone bias (+9V) from USB port (no external power needed). Zero delay voice feedback/attend feature (PC/Mac only), Output frequency response (20Hz-20KHz). Weight: 100g. Size: 65mm(L), 55mm(W), 25mm(D). Compact, robust, anodised aluminium enclosure. P/N 13-09051 ........P/N 13-18407 ..................
Pilots Headset USB Adapter .......................P/N 13-09050 ..........
P/N 13-00892 ...........
P/N 13-10296 ...........

THE NAVIGATION CD-ROM
The Navigation CD-ROM is an interactive CD-ROM that teaches how to navigate with VOR, NDB, GPS, HSI, RM, and Airspace! You’ll be prepared for action in the cockpit! Animation, sounds, quizzes and interactivity allow you to visualize navigation concepts without using simulations of actual aircraft equipment. To make learning easy, each tutorial features an easy-to-use point-and-click environment. During each tutorial, you’re prompted where to click, when to proceed and what information to provide during quizzes. If you need more time learning a concept, it is easy to review the section at hand. This CD-ROM features a logical progression, clearly written lessons, quizzes, interactive equipment simulation, colorful graphics and animation. System Requirements: Windows Vista, Windows XP, Windows 98, or Windows 95. 4MB RAM (8MB recommended). CD-ROM drive. 2MB hard drive space. Video supporting 256-color mode (minimum). Sound card (not required, but recommended).
P/N 13-00892 ...........

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$199.00

$95.00

$115.75

$99.95

$69.00

$64.95

$99.00

$34.95

$16.95

$86.75

$49.00

$49.00

$49.00

$99.00

$49.00

$49.00

$34.95

$69.00

$95.00

$99.00

$69.00

$99.00

$199.00
Garmin G1000 PFD & MFD Advanced .......... P/N 13-05788 ......
Garmin G1000 PDF & MFD Basics ............... P/N 13-05787 ......
Garmin G1000 Training IFR Procedures ....... P/N 13-06279 ......

IFR flight and greatly facilitates the transition to flying the Technically
to become proficient in all advanced functions and tasks required for
approaches. Complete and comprehensive training allowing the pilot
1038

Prices Subject to Change Without Notice

Tutorial runs on both PC & Macintosh systems.

included Tutorial runs on both PC & Macintosh systems.

GPS approaches, new WAAS-enabled approaches such as LNAV,
and activate approaches including RNAV and LNAV/VNAV, and LPV approaches, departures and arrivals, as well as
performing course reversals, holding patterns, and executing missed
approaches. Complete and comprehensive training allowing the pilot
to become proficient in all advanced functions and tasks required for
IFR flight and greatly facilitates the transition to flying the Technically

Garmin G1000 Training IFR Procedures .......... P/N 13-06279 ...........
Garmin G1000 PDF & MFD Basics..............P/N 13-05787 ...........
Garmin G1000 PFD & MFD Advanced.........P/N 13-05789 ...........

MAX TRESCOTT'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 resolution
swiping 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

MAX TRESCOTT CD-ROM COURSE
Makes it easy to learn all of the details of flying with WAAS. Designed for the
Garmin G1000, the course leads you step-by-step through flying these approaches.
Videos demonstrate the flying of actual approaches, and software simulators
let you practice loading and flying these approaches. The course is taught by Master
CFIs Max Trescott and Susan Parson, who say it covers the “gotchas” that can trick
even experienced GPS pilots.
P/N 13-05067 .................................................$99.95

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 FlightPlanner.com, mobile FlightPlanner,
and iFlightPlanner for iPad.
IflightPlanner allows pilots to intuitively plan routes, retrieve
certified weather 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 FlightPlanner for iPad
does support worldwide GPS tracking and color-coded METARs and TAFs.
Annual ........................................P/N 13-16354 ............$89.99
Plus Annual ........................................P/N 13-16422 ...........$119.99
Quarterly ........................................P/N 13-16355 ............$24.99
Plus Quarterly .................................P/N 13-16421 ............$39.99

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In terms of speed, graphics, clarity, and
learning value, FliteSchool from Jeppesen
Software is unequalled in its class. Much
more than a series of “flash cards” that help
you memorize the answers to FAA exams,
FliteSchool provides programmed learning
modules and Hypertext referencing that leads
through a series of associated references to
learn more, faster! Flite School’s Dynamic
Cybernetic Learning enhances your training by
analyzing your responses and leading you
to new subject areas. You’ll find studying with
FliteSchool to be more interesting and more
effective than other software programs
and many video tapes. Material is organized into
20 categories and monitored by topic. The software takes you step-by-
step through each subject area and returns to areas where you need
more work. When you’ve mastered enough material to pass the FAA
exam, you receive a graduation certificate for your instructor to sign off.
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Instrument...............P/N 13-100519 ............$79.95

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of the software. Each aircrafts systems are
covered in detail far surpassing th general
information provided in Pilots Information
Manual. For example, the electrical
scheme is presented on-screen just as it
appears in the information manual. But
instead of just sitting there looking mysteri-
ous and intimidating, the 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

GPS TRAINING SOFTWARE FROM ASA
GPS Trainer Version 2 is a tutorial to help pilots
master GPS from their desktop. For the renter
confronted with one brand of GPS one day and
another the next; for the instructor who teaches
in multiple aircraft; for the aircraft owner who is
trying to master the nuances of a favorite naviga-
tion tool; for the consumer wanting to search
the options before making the buying decision;
for fleet and Part 135 & 121 of operators who are
required to provide GPS instruction to their pilots.
GPS Trainer makes time spent in the Aircraft more
effective by providing the appropriate tools
to learn the GPS receiver on the ground. The
most popular GPS units are included, pilot scan learn
the Bendix/King KLN 99B by AlliedSignal, Garmin GNS530, GSPMap 430, 295 or Apollo GX50/60 all on a single CD. Manufacturers’ simula-
tors and operating manuals included. FAA GPS reference materials included. Tutorial runs on both PC & Macintosh systems.
P/N 13-01074 ..................$52.95

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 pro-
cess. Whether your experimental aircraft is a plans-built EAA bi-
plane, a Van’s RV, a Glasair, or even a Lancair I-VP, 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 Detailed Expense Log Test Flight Log Maintenance Log Weight & Balance Calculator
P/N 13-03705 .................$49.95

KITLOG PRO CD-ROM COURSE
Focuses on the construction process and
time tracking required to satisfy FAA requirements.

MULTIMEDIA SOFTWARE FLITESCHOOL
This software is unequaled in its class. Much
more than a series of “flash cards” that help
you memorize the answers to FAA exams,
FliteSchool provides programmed learning
modules and Hypertext referencing that leads
through a series of associated references to
learn more, faster! Flite School’s Dynamic
Cybernetic Learning enhances your training by
analyzing your responses and leading you
to new subject areas. You’ll find studying with
FliteSchool to be more interesting and more
effective than other software programs
and many video tapes. Material is organized into
20 categories and monitored by topic. The software takes you step-by-
step through each subject area and returns to areas where you need
more work. When you’ve mastered enough material to pass the FAA
exam, you receive a graduation certificate for your instructor to sign off.
Private Pilot.................P/N 13-100507 .............$69.50
Instrument...............P/N 13-100519 ............$79.95

AVIATION SOFTWARE

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Note: This product is drop shipped direct from the manufacturer. If shipping international, inbound freight from manufacturer to our warehouse will apply in addition to outbound freight from our warehouse to destination.

This modern design is intended to take the flight simulator instruments off our desks and put them in a more realistic simulator environment. Although the pre-drilled installation holes are universal in nature they are also specific for the Saitek brand of instruments.

"The Volair Sim flight chassis" as was designed as a play on the Spanish /Italian word volare, which means ‘to fly’. This futuristic looking layout is the near perfect setup for most of our flight simulations. You can adapt any piece or combination of pieces of flight sim gear to the basic chassis and go even further with a little imagination, a drill and a screwdriver.

The Volair Sim is a quality product that enhances the flight simulation environment to near real-world expectations. The high quality powder-coated 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 mounting kit adds to the flexibility of the unit. The ability to mount up to a single 42 IN VESA spec monitor or three 19 – 30 IN widescreen monitors makes it an instant hit with all flight simmers.

### ELITE SIMULATORS

**PI 135** - Now use the PI-135 to perform the approaches, holding procedures, and intercepting / tracking required under section 61.57(c)(1) for recent instrument experience (instrument currency)! (PC and monitor not included.) Includes: ELITE Basic ATD v8.5 software, ELITE SEL and MEL Piston Aircraft, ELITE AP-3000 Avionics Panel, ELITE MEL and SEL Throttle Quadrants, ELITE Pro Panel II Console, ELITE Pedals (not shown), AOPA ASF Integrated Course Outline and Training Syllabus.

P/N 13-07344 $9,485.00

**AP-4000** - Enables you to build your own avionics stack. Note: Requires Elite Version 8.5 software. GNS430 software has fixed database dated Nov. 2007 and is not upgradable! GPS based on Garmin GNS430.

P/N 13-07345 $34,995.00

### ELITE V8.5 FLIGHT TRAINING SOFTWARE

3 years, professional pilots had no choice other than to maintain IFR proficiency in an expensive full flight simulator. By introducing the world's first professional PC-based airliner-class simulator, ELITE offers a completely new way to practice IFR procedures to keep skills sharp.

ELITE Pilot Premium version 8.6 allows pilots of all levels of experience to exercise their flying skills using the power of the personal computer for over two decades. Complete startup and shut down 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

### JEPPESEN FLITESTAR FLIGHT PLANNING

**FliteStar IFR** v9.0 includes all of the features of FliteStar VFR and Jeppesen’s exclusive VectorPlus mapping technology and vector chart themes. FliteStar’s chart filtering features allow you to select which chart items are depicted. Intelligent chart de-clutter automatically minimizes label overlap, making charts easier to read. FliteStar’s GPS-direct router avoids airspace vertically as well as laterally, when asked to do so. FliteStar’s integrated terrain data makes your planning easier and more complete by displaying the color-coded elevation information in both the planview and profile views.

Weather animation capabilities along with Jeppesen’s weather images, including satellite and radar images, to be shown in moving sequence, thus depicting weather trend information. And, with release v8.0, cloud bases are automatically shown in the planview when your weather briefing is complete.

**Description** | **Part No.** | **Price**
--- | --- | ---
North America IFR | 61D0 | $283.75
North America VFR | 68973 | $142.75
Europe IFR | 6006 | $371.00
Europe VFR | 69083 | $149.00
WorldWide IFR | 68703 | $879.95
Americas IFR | 13-20172 | $1,254.00
North America VFR & 3 CD Updates | 13-201216 | $207.00
North America VFR & 3 Web Updates | 13-200517 | $257.95
North America VFR One Time Update | 13-201215 | $64.75
Americas IFR Onetime Update | 13-20165 | $167.95
Worldwide IFR Onetime Update | 13-20115 | $186.95

SEE OUR WEBSITE FOR MORE JEPPESEN FLITESTAR PRODUCTS

### RACOON RADIO COMMUNICATIONS TRAINER

The ultimate radio communications trainer. Listen to actual class B airspace radio calls. A complete ATC curriculum. From the Main Menu you have access to video introductions, actual arrival and departure procedures, a comprehensive radio communication ground school and knowledge quizzes. Features: Photo routes guide you through the arrival and departure procedures for airports in various airspaces. Hear and read actual ATC radio recordings from multiple pilots. The ground school course covers communication procedures, air traffic control systems, related equipment. Challenge yourself using the practical cockpit perspective quiz.

P/N 13-12723 $99.00

### HELICOPTER MANEUVERS GUIDE

The Maneuvers Guide provides step-by-step guidance with over 2 hours of video and animated media. Each maneuver is introduced by designated pilot examiner Ben Fouts. A detailed graphical animation follows, explaining the maneuvers step by step. Then there is also a cockpit view available showing the flown maneuver from the 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 flight. The software is a great learning tool for students and CFIs alike. System Requirements: High Definition image quality • 256x270pix resolution Runs on MAC and PC (Mac OS X 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

PS

Prices Subject to Change Without Notice
**VINTAGE SIGNS – EPAULETS – IFR SIMULATORS**

**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 ........ $18.95

**ID RATHER BE SHOPPING AT AIRCRAFT SPRUCE TREE LOGO** - This ID 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 13-17903 ...... $18.50

**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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**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 board with left hand on the yoke and right hand controlling your throttle, prop and mixture and managing the rest of your cockpit.

P/N 13-00737 ........ $126.75

**CH ECLIPSE YOKE** - Fully programmable fingerpaddles, 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 hat with rocker switch and trigger on both sides of handle. Configurable POV 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 extends for the thinnest of desks.

P/N 13-06127 ........ $189.75

**CH PRO RUDDER PEDALS USB** - Features forward/backward slide motion for real simulation flight. 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 13-00734 ........ $125.90

Kit #1 - Yoke and Rudder Pedals .......... P/N 13-06766 ........ $226.95


P/N 13-05377 ........ $128.90

**VRTR400 CONSOLE SIMULATOR**

The VR Aircraft VRTR400 Console Simulator offers the ultimate in realism, flexibility, mobility, reliability, and cost effective flight training! This high quality instrument panel simulation system represents what you would find in a real single engine aircraft. The VRTR700 is as real as it gets! With today’s rapidly escalating operating costs, you can keep flying without burning a drop of fuel, or worrying about the weather. With a small 42” x 18” footprint, the VRTR400 Console simulator will fit in very compact desks P/N 13-06127 ........ $189.75

VRTR400-G Dual Screen Glass(G1000) ... P/N 13-06761 ........ $9,150.00

**MICROSOFT FLIGHT SIMULATOR AS A TRAINING AID**

2nd Edition Microsoft® Flight Simulator has inspired many thousands of young “gamers” to pursue flight training in real life and has provided certificated pilots with countless hours of entertainment. And even though there is an awareness that PC-based flight simulators are not tough enough to let big kids and non-pilots fly it HARD! Not supplied: PC Computer system capable of operating Microsoft flight simulator 2004 or FSX. Suggest 2.2ghz or higher 2Mb ram Video card(s) capable of having 3 video outputs. Microsoft flight simulator program Rudder pedals for both 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 extends for the thinnest of desks.

P/N 13-09437 ........ $19.95

**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

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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 ......$83.75

PRO THROTTLE • 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 • HOTAS design • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty P/N 13-05616 ..............$130.85

 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 • Ergonomic left hand • Quality industrial components and construction • Two year limited warranty P/N 13-05615 ......$83.75

COMM 1 VFR/IFR RADIO SIMULATOR
Learning to fly? Not flown for a few years? Talking on the radio is one of the most important, but least emphasized, skills you need to fly safely in today’s busy airspace. COMM1 VFR Radio Simulator is a proven tool for pilots to gain confidence 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.

Comm1 - VFR Radio Simulator P/N 13-32221 ..........$93.95
Comm1 - IFR Radio Simulator P/N 13-00093 ..........$112.95
Headset with Boom M/C P/N 13-33331 ..........$22.95

Panel Planner Instrument Panel Design Software
Panel Planner software gives you the power to design and build instrument panels in record time. Simply drag full-color, photo-realistic instruments, avionics, and cockpit controls into place on an aircraft panel template or photograph. Panel Planner tracks total cost, total weight, and peak current, generates and equipment list, and even prints actual-size hole-cutting templates and color mock-ups. Panel Planner is easy to install and use with its continuous context-sensitive help to guide you every step of the way. The updatable database includes equipment from King, Narco, Sigma-Tek, David Clark, P.S. Engineering, Insight, Garmin, IFR, Il Morrow, UMA, Mitchell, Trimble, Arnav, S-Tek, Century, Vision Microsystems, Avidyne, Digifly, Skyforce, and many more. PLUS switches, lights, control cables, vents, circuit breakers, trim indicators, etc. Create labels, color-coded annunciators, or placards.

Panel Planner Pro (2.9 VERSION)
The PPJ 3.4 update has 100’s of new panels and instruments. Please download the Excel spreadsheets. Hundreds of hours were spent reworking older panels to bring out more detail. Instrument manufacturers added like Lonestar that represent new, important auxiliary avionics and more smaller aircraft manufacturers’ panel added. View 1600 instruments on 600 aircraft panels. Outputs DXF files for CNC, laser, water jet. Updates over the internet. Full-size cutting template printouts Measurement and alignment tools. Edit existing or create new panel templates. Multiple zoom and magnification levels. Actual-size color prints from desktop printers. Panel Planner Pro for Windows...... P/N 13-44415 ....$249.95
Panel Planner Pro for Macintosh...... P/N 13-06210 .......$249.95

LOGTEN PRO PILOT LOGBOOK APP
The leading international pilot logbook built for the Apple platform. LogTen Pro is the electronic logbook of choice for tens of thousands of Mac pilots in nearly 200 countries, and in every major airline. Designed to be completely customizable for your type of flying, country, region, company so you can track exactly what you need. Features:
• Syncs seamlessly with iPad and iPhone versions (but not required - whether you purchase the Mac version or Universal iPad/iPhone version, your whole logbook travels with you!)
• Data entry is quick and intuitive
• Easily imports existing data and you can customize to your needs
• Automatically tracks currency and duty limits
• Harnesses all the power of Apple Smart Groups so you can slice and dice your data instantly to provide answers to any question about your flight time (great for insurance, flying clubs, interviews, etc.)
• Tracks certificates, ratings, endorsements, medicals, expenses and flight reviews
• Prints stunning reports and official logbooks, over 80 reports available out of the box or you can create your own!
• Automatically calculates night time
• Exports flights and trips right to your calendar
• Automatically processes airline schedule
• Visual limits lets you see at a glance if there’s any issues with your schedule
• Customer service second to none...And a lot more
Apple/MAC ........................................................P/N 13-11975 .......$99.99
iPhone/iPad ........................................................P/N 13-11976 .......$99.99

Prices Subject to Change Without Notice
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Practicing at home is a great idea for pilots. You can keep your skills sharp and your mind in the cockpit even when you can't make it to the airport. In reality, however, two obstacles deny a majority of pilots effective home flight simulation: purchasing and assembling the right hardware requires a PhD in computer know-how, and after flying around the virtual world for a bit, most pilots get bored. Redbird Flight Simulations, the world leader in FAA-approved flight simulators for general aviation, has addressed both these issues with the Jay. The Jay contains the monitor, speakers, computer and flight controls—all-in-one unit that is ready to fly right out of the box. It boots up directly to a launch screen where you can select your airplane, airport and weather conditions. Push the green button and you’re on a runway and ready to go. Scenario-based training? It’s built in. The Jay is more than a simulator—it’s a flight experience device supporting training, proficiency, and just plain fun! In addition to the free flight mode where you select the aircraft and conditions, the Jay has a scenario mode where you can load a preset scenario and fly it. A scenario could range from a simple flight challenge to a complex flight with multiple potential outcomes. For example, a magazine article on an aircraft accident could be linked to a mission where the Jay owner flies that scenario. Redbird Media, a company specializing in curriculum for simulation, will create many of these scenarios in partnership with AOPA Pilot and other training outlets and magazines. The scenario exchange will be open to any company wishing to create scenarios for the Jay. A one-button update on the Jay will load the latest scenarios available for free or that the owner has purchased. The Jay home screen also has a built-in web browser to access scenario add-ons, such as video, or download simulator extensions such as additional aircraft or scenery. The Jay chassis is metal, not plastic. Smoothness is paramount. The parts should last indefinitely. In addition, there are pilot-centric touches. For example, the yoke travel is equivalent to a typical Cessna or Piper single—about three times as far as most plastic flight sim yokes do. The software powering the Jay is Lockheed Prepar3D (pronounced “prepared”). Prepar3D is an evolution of Microsoft’s FSX, enhanced and expanded for professional-level simulation, including Redbird’s full-motion simulators. This means most of the many plug-ins, aircraft and communities designed for FSX will work flawlessly on the Jay.

### 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.

### OTHER REDBIRD SIMULATORS

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<th>Part No.</th>
<th>Model No.</th>
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<td>Redbird LD</td>
<td>Redbird LD</td>
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<td>13-15890</td>
<td>Redbird SD</td>
<td>Enclosed similar to FMX, but no motion</td>
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<td>13-15891</td>
<td>Redbird FMX</td>
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<td>13-15892</td>
<td>Redbird MXF</td>
<td>Full motion, compact for limited space</td>
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<tr>
<td>13-15902</td>
<td>Redbird XWIND</td>
<td>Full motion, with more LCD exterior visuals</td>
<td>$34,900.00</td>
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<td>13-15903</td>
<td>Redbird XWIND SE</td>
<td>Full motion, teaches cross wing techniques</td>
<td>$31,900.00</td>
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### REDBIRD ALLOY SIMULATOR CONTROLS

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<th>Description</th>
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<td>13-19644</td>
<td>Redbird Single Engine Lever Throttle Quadrant</td>
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<td>Redbird Twin Engine Lever Throttle Quadrant</td>
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<td>13-19647</td>
<td>Redbird Single Engine Lever Throttle Quadrant</td>
<td>$569.00</td>
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### FOR MORE INFORMATION...

WWW.AIRCRAFTSPRUCE.COM

The Redbird TD and TD2 are table-mounted flight training devices that are designed with the ergonomics of flight in mind at a price that everyone can afford. Plus, they’re fully packaged and easy to set up and operate, making it the most realistic and effective trainer on the market. Traditional “desktop” flight training devices sit on top of a table or desk, causing the pilot to reach up for the yoke and to look unrealistically high for the gauges. The TD and TD2’s unique mounting system allows it to be hung on a wall or put on a table or desk, putting the yoke within reach and allowing the pilot to look at the gauges. The TD and TD2 are perfect for flight schools looking to enhance training with simulation, and for individual pilots looking to hone their skills and stay current from the comfort of their home or office.

### FEATURES:

- 90-day warranty with optional 1 or 2-year extended warranty
- Interchangeable instrument panel - traditional or glass configurations
- Complete terrain and airport database
- Equipped with computer, monitor, instrument panel, keyboard and speakers
- Ergonomically correct design which easily slides onto a sturdy, solid table
- FAA Approved BATD with optional rudder pedals
- Failure Hotkeys

### ROOM REQUIREMENTS:

You will need a sturdy, solid table with a maximum tabletop thickness of 2.25” including any rails and the underlying structure. There should be at least 25” between the legs of the table to allow the TD to slide on to the table smoothly. Please note that you must install the adjustable supporting leg for added stability, if you are not using a Redbird TD table or platform.

- Redbird TD ………………… P/N 13-15905 ………… $6,995.00
- Redbird TD2 ………………… P/N 13-15904 ………… $7,995.00

### OPTIONS

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<td>TD &amp; TD2 Sims, come with a single screen. This kit adds 2 side screens for a panoramic view.</td>
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<td>$1,695.00</td>
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<td>Redbird Table for TD and TD2</td>
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<td>$629.00</td>
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**Part No.** 13-15889

**Description** Redbird LD

**Price** $32,800.00

**Part No.** 13-15890

**Description** Redbird SD

**Price** $42,800.00

**Part No.** 13-15891

**Description** Redbird FMX

**Price** $64,800.00

**Part No.** 13-15892

**Description** Redbird MXF

**Price** $58,800.00

**Part No.** 13-15902

**Description** Redbird XWIND

**Price** $31,900.00

**Part No.** 13-15903

**Description** Redbird XWIND SE

**Price** $34,900.00

---

**Table not included**

FAA Approved BATD Simulator

---

**Part No.** 13-15870

**Description** TD & TD2 Sims

**Price** $1,695.00

**Part No.** 13-15860

**Description** Redbird Table for TD and TD2

**Price** $629.00

---

**Part No.** 13-19643

**Description** Redbird Control Yoke

**Price** $799.00

---

**Part No.** 13-19644

**Description** Redbird Single Engine Lever Throttle Quadrant

**Price** $569.00

---

**Part No.** 13-19646

**Description** Redbird Twin Engine Lever Throttle Quadrant

**Price** $599.00

---

**Part No.** 13-19647

**Description** Redbird Single Engine Lever Throttle Quadrant

**Price** $569.00
SAITEK FLIGHT SIMULATION

SAITEK X52 FLIGHT CONTROL SYSTEM
Enhanced game play through intuitive Multi-Function display (MFD). Illuminated buttons and MFD - ideal for low light environments. Rubber grips and ergonomic design for increased comfort and fatigue-free gaming. Includes Roger Wilco Chat software - the ideal accompaniment for on-line multiplayer gaming.
P/N 14-002045 ................. $149.99

SAITEK X52 PRO FLIGHT SYSTEM
The MFD screen is now interactive. Now you can display important in-game information such as the Radio Stack and interact with your games directly. Shipping with support for Microsoft’s Flight Simulator X, there’s also a Software Development Kit (SDK) included which allows budding programmers to create interactions with their own favorite games.
P/N 14-00649 ................. $199.99

SAITEK PRO FLIGHT YOKE SYSTEM
Meets the exacting needs of the true flight simulation enthusiast. Stainless steel shaft, ergonomic controls, integrated chronograph and separate throttle quadrant. Use the integrated USB Hub to easily connect other parts of the Saitek Pro Flight range of products, such as additional Pro Flight Throttle Quadrant or Pro Flight Instrument Panel (sold separately).
P/N 14-00598 ................. $169.99

SAITEK PRO FLIGHT INSTRUMENT PANEL 6 PACK
Featuring a stunning 3.5” colour LCD screen, the Instrument Panel can display 6 of the main cockpit instrument panels from Microsoft’s Flight Simulator X. Choose between 6 different flight instruments at the touch of a button: Altimeter, Attitude Indicator, Airspeed Indicator, Compass, Turn and Slip indicator, and Vertical Speed.
P/N 14-00010 .................... $859.00

FLIGHT TRAINING COCKPIT ADVANCED PANEL
Advanced Panel offers a cockpit-realistic way to mount Saitek Pro Flight Simulation Instruments and Controls. The Advanced Panel twist-and-remove pre-cut tabs allow you to add Saitek Instrument Panel to your Advanced Panel over time and trade simulation devices between slots. Small tabs accommodate up to 10 Pro Flight Instruments. Each Saitek Flight Instrument Panel allows you to digitally switch between simulating eleven flight instruments. Alternatively, mount a Hannspree HL161ABB 16” Screen LED-Lit Monitor in one of several possible Panel face mounting configurations.
P/N 13-13083 ................. $319.00

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 ................... $119.99

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 ................. $99.99

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 radio stack 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 displays for use in controlling various aspects of flight simulation. Full Autopilot panel with associated setting controls: Auto Throttle, Flaps, Elevator Trim wheel.
P/N 14-00669 ................ $149.99

SAITEK PRO FLIGHT INSTRUMENT PANEL
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. Reacting and updating in real time with events from the game, the Instrument Panel brings an extra level of realism to your flight simulation setup. Choose between 6 different flight instruments at the touch of a button: Altimeter, Attitude Indicator Airspeed Indicator, Compass Turn and Slip indicator, Vertical Speed.
P/N 14-00670 ................ $169.99

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**JEPPESEN AIRWAY SERVICES**

### JEPPESEN ENROUTE LOW & TERMINAL CHARTS

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Gulf of Mexico (Helicopter Service), Instrument approaches within 200nm of the coast at airports with weather reporting capability. Also includes Gulf of Mexico Area chart.

### JEPPESEN AIRWAY MANUAL EXPRESS

**WESTERN AREA**

Northwest, J-NW: Washington, Oregon, Idaho
West Central, J-WC: Montana, Wyoming, North Dakota, South Dakota
Southwest, J-SW: Nevada, Utah, Arizona, New Mexico, Colorado
California, J-CA: California
Alaska, J-AK: Alaska

**CENTRAL AREA**

Central, J-CN: Colorado, Nebraska, Kansas, Missouri
North Central, J-NC: Minnesota, Iowa, Wisconsin
Great Lakes, J-GL: Wisconsin, Illinois
East Central, J-EC: Indiana, Ohio
South Central, J-SC: Oklahoma, Arkansas, Louisiana
Texas, J-TX: Texas
Michigan, J-MI: Michigan

**EASTERN AREA**

Northeast, J-NE: Maine, Massachusetts, Connecticut, New Hampshire, Rhode Island, Vermont
East, J-EA: New York, Pennsylvania, New Jersey
Mid-Atlantic, J-MA: Virginia, Maryland, Delaware, West Virginia, D.C.
Southeast, J-SE: Georgia, North Carolina, South Carolina
Mid-South, J-MS: Kentucky, Tennessee, Mississippi, Alabama
Florida, J-FL: Florida

1-1/2" Vinyl Binder (Holds 1 single issue) P/N 13-22792 $24.95

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**CHART POCKET**
Transparent durable vinyl pocket holds two enroute charts. 7-hole punched for binder.
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- PB-2 Denlon wrapped, 2” Rings, No Stay-Open Bar .......................... P/N 13-21744 ....... $40.00
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P/N 13-29949 .............................................. $9.99

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P/N 13-11595 .............................................. $7.95

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The Scenic Flight Maps give you many different routes for sightseeing to the major landmarks, famous places in Los Angeles and Orange County or San Diego area. The multiple color graphs and route pointers are really easy to read and follow. The map is laminated to keep from daily tears and protects from liquid spill. On the back side, it shows three columns: Route, Need to Know and Sightseeing sections, to better guide you in your travel without confusion or time lost.

Scenic Flight Maps L.A./O.C. .............................................. P/N 13-05667 ............... $11.95

AERONAUTICAL CHART USER’S GUIDE
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P/N 13-11595 .............................................. $7.95

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, 56x36 inches flat, is updated annually.

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