**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). Oxygen saving cannulas & AEROX Flow Control Regulators increase the duration of oxygen supply about 4 times, and prevent nasal irritation and dryness. Complete brochure available on request.

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**500 SERIES REGULATOR – AN AIRCRAFT SPRUCE EXCLUSIVE!**

- Low profile
- 1, 2, & 4 place
- Standard Aircraft filter for easy filling
- Convenient top mounted ON/OFF valve
- Over pressure safety valve
- Built in cylinder pressure gauge

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**COMPLETE AEROX SYSTEMS (ADJUSTABLE FLOW)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-18895</td>
<td>1A</td>
<td>1 outlet, 6 Cu Ft. Cyl. w/Flow Meter &amp; Cannula</td>
<td>$377.60</td>
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<tr>
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<td>4 outlet, 9 Cu Ft. Cyl. w/Flow Meters &amp; Cannulas</td>
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<tr>
<td>13-18904</td>
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<td>4 outlet, 13 Cu Ft. Cyl. w/Flow Meters &amp; Cannulas</td>
<td>$652.00</td>
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<tr>
<td>13-18905</td>
<td>4E</td>
<td>4 outlet, 22 Cu Ft. Cyl. w/Flow Meters &amp; Cannulas</td>
<td>$663.20</td>
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<td>13-18906</td>
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<td>4 outlet, 22 Cu Ft. Cyl. w/Flow Meters &amp; Cannulas</td>
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<td>13-18915</td>
<td>6M</td>
<td>6 outlet, 22 Cu Ft. Cyl. w/Flow Meters &amp; Cannulas</td>
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<td>13-18905</td>
<td>6F</td>
<td>6 outlet, 33 Cu Ft. Cyl. w/Flow Meters &amp; Cannulas</td>
<td>$1,011.20</td>
</tr>
</tbody>
</table>

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

1.) Oxysaver® Cannula—this comfort device may be used in place of your mask up to 18,000 ft. MSL. It has a conserving feature which can extend your oxygen supply by up to four times. 2.) AEROX Flowmeter/indicator—this combination device conveniently reads both mask and cannula flow rates in MSL altitude. 3.) AEROX Adjustable Flow Restrictor—a thumb screw operated nozzle restrictor valve allows you to precisely control flow. Shown are most of the connectors for general aviation. If you want us to supply the connector, be sure to indicate which is your type.

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**FITTING IDENTIFICATION CHART (Not Sold Separately)**

<table>
<thead>
<tr>
<th>RK-SC</th>
<th>RK-SK</th>
<th>PB-2 Old Style</th>
<th>PB-1 New Style</th>
<th>MS</th>
</tr>
</thead>
</table>

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**PARTY-FOUR® - AEROX PRO-O2 EMERGENCY HANDHELD OXYGEN SYSTEMS**

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

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

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**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 13-12733 ............. $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.

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**AEROX SMOKE GOGGLES**

Aerox has introduced Smoke Goggles with face forming elastomer seals to keep smoke out. Aerox Smoke Goggles are the choice of the U.S. Special Forces. The case features reflective tape to make goggles easy to locate as well as a velcro strap on the back for mounting. Goggles............. P/N 13-06173 ............. $96.00

---

**BR-M AEROX BRACKET**

Bracket Assembly, SS, with Lock, or Cyl Diameter (2 needed per system)........ P/N: 13-04033 ............. $37.00

---

**AEROX FBO-1 FILLING STATION**

Whether making money or saving it, the AEROX FBO-1 Cascade Filling System makes it easy to fill all types of aviation systems, from portables to jets. The FBO-1 comes complete with 2 CGA 540 cylinder connectors, 6 large-pressure (3000 psig) braided stainless steel flow restrictors and adapters to fit Puritan-Bennett, Scott, and CGA 540 filler ports. P/N: 13-04534 ............. $360.00

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**AEROX C54-540 SINGLE CYLINDER FILLING STATION**

Transferts between cylinders quickly and easily. 6 large braided stainless line, gauge, restrictor, and CGA 540 filler. P/N: 13-04535 ............. $178.85

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**OPTIONAL BUILT-IN ADAPTERS**

**Image** | **Description** | **Part No.** | **Price** |
<table>
<thead>
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</thead>
<tbody>
<tr>
<td>Aerox Scott Built-in Adapter Option (Piper, Beech, Mooney)</td>
<td>13-04536</td>
<td>$60.00</td>
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<tr>
<td>Aerox Puritan-Bennett Built-in Adapter Option (all other makes)</td>
<td>13-04537</td>
<td>$87.00</td>
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</tbody>
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**PORTABLE SYSTEM FILLING ADAPTERS**

- Aerox Scott Portable Filling Adaptor | 13-04538 | $65.00 |
- Aerox Puritan-Bennett Portable Adapter Option | 13-04540 | $87.00 |

---

**AEROX SEAT BACK DELUXE CARRIER**

**AEROX DILUTER DEMAND MASK**  
Comes standard with an electret microphone and an inflatable Quick Comfort head harness that provides maximum comfort. The mask features a carbon fiber construction, and soft silicon rubber. Connectors are available for most built in systems. This mask is easily mounted with the available carbon fiber storage cup, aerox® is also able to manufacture a portable walk around system with the same outlet plug that is on your aircraft, so you can easily disconnect from the on-board system and plug directly into a portable system allowing mobility.  
P/N 13-12359.................$3,850.00

**PULSE OXIMETER CO DETECTOR 455**  
Designed for all aircraft with limited panel space. This small pulse Oximeter with CO Detector mounts easily in most panels and transmits data to the MFD’s via RS232. Current MFD manufacturers include Electronics International, Advanced Flight Technologies, Grand Rapids Instruments and on upcoming releases of Avidyne Entegra Release 9. The unit transmits the pilot’s blood oxygen levels, heart rate statistics, CO Level, Cabin temperature and Cabin Altitude to the MFD’s display units. The pilot inserts an index finger in the unit and quickly gets readouts so he/she can determine his/her general physical and his environmental condition. Aero-455 reminds the pilot when he/she passes 10K and he/she can determine his/her general physical and environmental condition. Aero-455 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 • Indication of low power consumption • Two display modes  
P/N 13-05666.................$84.95

**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 • Indication 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 Alt Alert™ 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.................$350.00

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

**MOUNTAIN HIGH AVIATOR STANDARD CANNULA**  
Calibrated for use with the MH-4 flowmeter or any other device calibrated to the standard protocol of 1 liter per minute per 10,000 ft. per FAA-FAR 23.1447. This Cannula works great with a headset!  
P/N 13-11590.................$6.50

**MOUNTAIN HIGH FLOWMETER MH-4**  
The MH-4 has two altitude flow scales. The left (compressed) scale is calibrated for the Oxymitter™ cannula and is limited to flight of 18,000 ft. 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 Oxymitter ‘M’ type (mustache-style) oxygen-conserving cannula is the most popular version. The Oxymitter is standard issue with our XCR and XCP systems and may work with almost any adjustable constant flow regulator.  
P/N 13-11592.................$28.85

**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 tip and the entire feed-tube assembly are easily replaceable, as well as the aluminum mount ball. The arm can be easily removed from the headset when not in use.  
P/N 13-13067.................$99.75

**MOUNTAIN HIGH ALPS FACE MASK**  
The 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.  
Aps Constant Flow Feed Tube Use with MH-4 Flowmeter only  
P/N 13-11388.................$4.95

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Facemask Med.</td>
<td>13-04155</td>
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<tr>
<td>Facemask Small</td>
<td>13-05136</td>
<td>$169.90</td>
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<tr>
<td>Facemask Large</td>
<td>13-05137</td>
<td>$169.75</td>
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<tr>
<td>Facemask w/ Micro Med</td>
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<tr>
<td>Facemask w/ Micro Large</td>
<td>13-04156</td>
<td>$465.00</td>
</tr>
</tbody>
</table>

**NATURAL BOOST OXYGEN**  
Boost Oxygen is a convenient, lightweight, and portable 95% pure Aviator’s Breathing Oxygen. Perfect for hikers, athletes, and GA pilots flying at high altitude (but still below 12,000 feet), Boost can help you out on your next trip.  
Instructions for use:
Place mask under the nose and over the mouth. Press trigger down to activate flow. Breathe deeply through the mouth.
Pocket Size - 2 Liters...P/N 13-12975............$7.50  
(case of 12).................P/N 13-12975-1............$77.65  
Medium Size - 5 Liters...P/N 13-21167.............$8.95  
(case of 12).................P/N 13-21167-1.............$113.75  
Large Size - 10 Liters...P/N 13-12976............$14.50  
(case of 12).................P/N 13-12976-1............$173.75

**OXYMETERS - FACE MASKS**

Prices Subject to Change Without Notice
WWW.AIRCRAFTSPRUCE.COM

913
MOUNTAIN HIGH XCP SYSTEMS

The MH-XCP Constant Flow series is our most economical single and multi-place, portable oxygen system for general aviation. Weight is kept to a minimum by our low profile, light weight regulators, MH-3 or MH-4 Flowmeters and Cannulas. The XCP systems come complete with Cylinder(of your choice), Regulator, High Flow MH-3 or MH-4 Flowmeter, Oxymizer™ cannula, facemask, tote bag and cylinder carrying case for easy transport and seat back mounting. Full Pack. The XCP System can be adapt to 25,000 ft. with the MH-4 Flowmeter and Facemask. Choose the MH-3 Flowmeter fo flights 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 FlowMeter (Your choice when ordering) • Oxymizer (oxygen conserving) Cannula. • Facemask • Tote-Bag.

MOUNTAIN HIGH HANDHELD OXYGEN SYSTEM

The CO-PILO2T oxygen system is a small, light-weight, hand-held oxygen system. Precision manufactured in Japan, this unit was especially designed for supplemental breathing while at high altitudes. The regulator has an on/off and volume control knob adjustable from off to a max setting of 2-lit/min. which will last approx. 9 minutes. The removable face mask can be replaced by an optional Oxymizer cannula for continuous "hands off" operation. When using the Oxymizer 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 13-02292 $26.50

Pack of 3 18 Liter Replacement Cylinders. P/N 13-13093 $74.95

MOUNTAIN HIGH EDS O2D1 OXYGEN SYSTEMS

The EDS-02D1 System enables the general aviation pilot to fly at pressure altitudes up to 25,000 feet with safety and comfort. The EDS-02D1 digital 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 system should be used with our XCR, XCP, or 4-place FPR regulator. for correct pressure and oxygen delivery. The low-pressure service line is a high quality polyurethane line that is kink-resistant and flexible under varying temperatures. The cannula, face mask and service line connect to the EDS 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 time meters are being used. In addition, the optional AL-PS Face-mask with or without microphone, is the perfect addition to any EDS system. All systems are shipped empty.

MOUNTAIN HIGH EDS O2D2 OXYGEN SYSTEMS

The MH EDS-02D2 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 O2D2 and O2D1 are portable systems designed for personal oxygen use and can be used with our regulators (-15 psig. dynamic and 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 TRANSFILLER UNITS

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

TR-75B 00GSE-1012-00 Standard length 24 inches. The TR-75B is our most popular personal transfiller. It is equipped with O-ring seals on both of the CGA-540 (oxygen) ends for a positive and air-tight fit by hand. A handy bleed valve is included to relieve the pressure in the system so that the fittings can be easily removed from the cylinder without damage to the o-ring seals. P/N 13-03924 .......................................................... $359.00

TR-30C 00GSE-1016-00 Standard length 48 inches. The TR-95B is an economical transfiller for filling small to medium flying clubs where many cylinders are serviced frequently. Both connecting ends have O-ring seals for a positive air-tight fit. The pressure/content gauges show 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. With 8t. Hose .......................................................... P/N 13-14949 $1,289.00

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

TA-916-S Adapts CGA-540 to the Scott fitting (9/16-18 threads). Commonly known as the Scott 26875, 5020-1 Airline or AS1046 fitting. A socket is on the CGA-540 end to attach to transfiller lines. P/N 13-14773 .......................................................... $137.75
## 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

### PILOTPACK PERSONAL OXYGEN PACK

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

P/N 05-14890 $579.00

### PLANE PACK - 4 PERSON

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

P/N 05-14896 $1,499.00

### 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 • 2 - Standard Face Mask - Certified to 25,000 Feet • 6 - ALL-IN-ONE Connector Kit • 6 - FLOWGLOW for use with A-5 Flow Meter • 3 - Oxygen Equipment Bag - PFI • 1 - Pulse Oximeter.

P/N 05-14897 $1,850.00

### PLANE PACK - 8 PERSON

In the box: • 8 - A-5 Oxygen Flow Meter With Tubing • 2 - Comfort Microphone Mask with Premium Mic • 8 - Oxymizer Cannula For Use With Flow Meters • 6 - Standard Face Mask - Certified to 25,000 Feet • 8 - ALL-IN-ONE Connector Kit • 8 - FLOWGLOW for use with A-5 Flow Meter • 4 - Oxygen Equipment Bag - PFI • 1 - Pulse Oximeter.

P/N 05-14898 $2,195.00

### 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 12-04869 $129.85

### 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 • 4 - FLOWGLOW for use with A-5 Flow Meter.

P/N 05-14894 $899.00

### OXYPACK4 - 2 PERSON OXYGEN SYSTEM

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

### X3 SOLO PACK

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

P/N 05-14889 $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 25,000 feet.

P/N 05-14891 $1,149.00

### X3 SOLO PACK

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

P/N 05-14889 $899.00
GROUND SUPPORT TOW BARS

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

**MOONEY** - A simple "T" handle design for the Mooney axle. Overall length 33."
- P/N 13-02000..................$60.85

**CHEROKEE** - This one piece tow bar has a retractable locking mechanism that gives a positive lock when installed. Overall length 31".
- P/N 13-01600...............$57.95

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

**ARROW** - This offset "T" handle design fits into the Arrow axle making it a simple and easy design to use. Overall length 33".
- P/N 13-01700..................$60.99

**TWIN CESSNA** - The extra length provides extra nose clearance and leverage for Twin Cessnas and remains very compact. Overall length 55", collapsed 34".
- P/N 13-01850..................$60.99

**TWIN PIPER** - (HH-007) Piper Twin Comanche, Apache, Aztec, and Navajo Towbar. Two section until 28" collapsible, 49'-1/2" overall length.
- P/N 13-01778..................$60.99

**COMANCHE** - The same as our P/N HH-007 except one piece construction. Overall length 33".
- P/N 13-02100..................$61.85

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

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

- P/N 13-18476..................$71.75

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

**UNIVERSAL TOW BAR WITH CLEVIS HITCH**

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

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

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

**BEECHCRAFT AXLE** - Its collapsible design makes it easy to fit in the baggage area. Collapsible Length: 26" Overall Length: 43".
- P/N 13-02225..................$70.75

**CHEETAH/CIRRUS** - This tow bar is designed to fit Grumman aircraft. Its collapsible design makes it easy to fit in the baggage area. Overall length 46.5", collapsed 28.5".
- P/N 13-01580..................$72.75

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

**COMMANDER** - This model fits Rockwell 112 and 114. Spring loaded forks for ease of operation. Overall length 46.5", collapsed 28.5".
- P/N 13-01570..................$74.75

**DELUXE MOONEY** - The deluxe Mooney towbar is a longer, two piece version of a standard Mooney towbar. Attractive black caps accentuate deluxe appearance. Length: 38", collapsed 21". Wt. 3 lbs.
- P/N 13-01560..................$62.75

**UNIVERSAL** - For the FBO this is an ideal hand held universal tow bar. Fits Cessna, Beech, Piper, Scott Tailwheel and many others. Overall length 57", collapsed 34". Fits aircraft with 5/8" lug on the nose gear strut.
- P/N 13-02250..................$100.95

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

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

**AERO-TOW CIRRUS TOWBAR** - This Cirrus Towbar is designed specifically to fit the gear of the Cirrus Aircraft. At just 6 lbs and a shipping box of 1-3/4" x 12" x 39" you will find this to be a quick and easy stowaway.
- P/N 13-17597...................$165.00

**FBO UNIVERSAL TOW BAR WITH RING HITCH T-100**
This heavy duty universal tow bar is standard equipment for FBOs. Cessna, Most Piper, Cessna, Beech, Mooney, AeroCommander, and many others. The adjustable fork allows you to extend the fork assembly from 3" to 10". This tow bar is extra long at 7 ft. 6 inches. The T-100 is not made for specific aircraft. It has spring loaded adapters that will fit and 1/4" to 5/8" towpins on the aircraft axle. This will not work with aircraft that have tow pins on the landing gear.
- P/N 13-02355...................$257.95

**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), Part No. 13-06124...
- P/N 13-01764..................$449.00

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

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

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

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

TAIL WHEEL AIRCRAFT

<table>
<thead>
<tr>
<th>Model</th>
<th>Fits</th>
<th>Extended Length</th>
<th>P/N</th>
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<td>4-API</td>
<td>Aircraft Products Tailwheel</td>
<td>48&quot;</td>
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<td>04M-XP</td>
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<td>4-TDG</td>
<td>Scott 3200 &amp; 3400/ABI</td>
<td>3200/3400</td>
<td>13-10000</td>
<td>$139.95</td>
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<td>4-RV</td>
<td>Vans RV3, RV4, RV6, RV8, RV9</td>
<td>48&quot;</td>
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NOSE WHEEL AIRCRAFT

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<td>4-1770</td>
<td>Bellanca-Viking Series</td>
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<td>Cessna 150, 152, 175, 177, 178, 310/415, RV-4</td>
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<td>4-206</td>
<td>Cessna 205, 206 &amp; 207</td>
<td>48&quot;</td>
<td>13-10060</td>
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<tr>
<td>4-210</td>
<td>Cessna 172RG, 172RG, 182RG, 212 &amp; 210 Series</td>
<td>48&quot;</td>
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<td>4-182-XL</td>
<td>Cessna 182 S (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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<td>4-SR</td>
<td>Cirrus SR 20 &amp; 22</td>
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<td>4-AA</td>
<td>Gulfstream American AA1 &amp; AA5</td>
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<td>4-Lake</td>
<td>Amphibian</td>
<td>48&quot;</td>
<td>13-10411</td>
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<td>4-Moon</td>
<td>Mooney Aircraft</td>
<td>48&quot;</td>
<td>13-01810</td>
<td>$139.95</td>
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BRACKET TOW BARS

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

MODEL TR-6 TOWBARS
The TH-6 is a light-weight universal towbar designed primarily for hand towing. The TH-6 eliminates the mad hunt for the proper towbar when moving a hangar full of singles and light twins. This towbar also has a good handle for pulling and a ring, ball or clevis hitch for occasional light towing. NOTE: The Piper manual states that the tow pins are for hand towing. For powered towing we suggest adapter set P/N 13-15488,

BRACKETT TH-6 TOWBARS
Ring Hitch.......................P/N 13-18547......$346.00
Ball Hitch........................P/N 13-18548......$346.00
Clevis Hitch...............P/N 13-18722......$439.00
Piper Adapter - Qty 2 Required........P/N 13-15488...$20.50

MODEL TR-34

The TR-34 has the light weight of the TR-3, and the strength of the TR-4. It has the same universal features that fit most aircraft from C-150 through aircraft up to 14,500 lbs. Wt: 35lbs. Available in 3 hitch styles, Ring Hitch (TR-34R)...........P/N 13-10085.....$698.00
Ball Hitch (TR-34B)........P/N 13-10086.....$698.00
Clevis Hitch (TR-34C).......P/N 13-10087.....$662.00
TWA-10 Scott Tail Wheel Adapter (2 pcs. req.) P/N 13-10089......$25.50

MODEL TH-53
Features a tow bar length of 80" to 94" (extended). Wt: 22 lbs. Max. aircraft Wt: 7,000 lbs. Price: $139.95

MODEL TR-71, 72, & 73

TR-71B Towbar w/Ball hitch........P/N 13-01907......$586.00
TR-72B Towbar w/Ball hitch........P/N 13-01908......$586.00
TR-73B Towbar w/Ball hitch........P/N 13-01909......$586.00
TR-71R Towbar w/Ring hitch.........P/N 13-03339......$625.00
TR-73C Towbar w/Clevis................P/N 13-03340......$625.00

CUSTOM TOWBARS & OPTIONS FOR UNIVERSAL TOW BARS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
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<td>TWA-10</td>
<td>Scott Tail Wheel Adapter (2 pcs. req.)</td>
<td>13-10089</td>
<td>$25.50</td>
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<td>T-MU2-10</td>
<td>Kit-Crank &amp; head assembly for converting TR-34 to TR-44</td>
<td>13-01890</td>
<td>$144.75</td>
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<td>TWA-11</td>
<td>Tail Wheel Adapter for DGA-Staggerwing (2 pcs. req.)</td>
<td>13-01891</td>
<td>$22.90</td>
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<td>T-4W</td>
<td>Wheel Set (Set of 2) for TR-34</td>
<td>13-01892</td>
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<td>T-375</td>
<td>Adapter, 375&quot; for Aerospace-Industries, Trinidad (2 pcs.)</td>
<td>13-01893</td>
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<td>T-475</td>
<td>Adapter, 475&quot; Outer Diameter (2 pcs.)</td>
<td>13-01894</td>
<td>$20.90</td>
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<td>T-625</td>
<td>Adapter, 625&quot; for Augusta 109 &amp; Others (2 pcs. req.)</td>
<td>13-01895</td>
<td>$17.85</td>
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<td>T-750</td>
<td>Adapter, 750&quot; for Commander 114, S-76 &amp; Other</td>
<td>13-01896</td>
<td>$20.50</td>
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<td>T-Maule Adapte</td>
<td>for Maule Tail Spring (1 pc. req.)</td>
<td>13-01897</td>
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<td>T-34-04</td>
<td>Shock Absorbing Ring Hitch (1 pc. req.)</td>
<td>13-01898</td>
<td>$189.95</td>
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<td>TR-PH</td>
<td>Towbar, Pitots PC-12, 3 pcs., 30 lbs</td>
<td>13-01868</td>
<td>$598.00</td>
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<td>TR-PCS</td>
<td>Towbar, Pitots PC-12, 1 pc., 19 lbs</td>
<td>13-01903</td>
<td>$517.00</td>
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<td>TR-352</td>
<td>Towbar, Aves 3 pcs., 18 lbs</td>
<td>13-01864</td>
<td>$335.00</td>
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</tbody>
</table>

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

BOGI BAR EXTENDED HANDLE
Includes new grips and is 7" longer than the standard Bogi Bar T-Handle. The extra length can be quite beneficial for aircraft with extra-long noses like the Cessna 182 S (1996 and up) and T (2001 and up) models. Tall customers will find this T-Handle easier on the back since it lowers that overall angle of the tow. The Extended T-Handle works with any of the standard Bogi-Bars and will increase the overall length to about 55". Model 4-TXL..................................................P/N 13-11199.....$45.50

WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
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

• 2nd 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 Part No. Price
Standard tail Dragger 13-01510 $209.00
Tail Dragger Dragger Gas 13-01824 $1,595.00

ACCESSORIES

Descriptions Part No. Prices
RV Tail Wheel Lift Pin 13-04936 $7.85

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

Part No. Price
Universal Big Bogi Bar 13-03168 $330.00
Jabiru Kit: Fox 13-03171 $49.95
Casena 150, 152, 172, 182, Vans, and many more 13-03172 $99.95
Cirrus SR20, 22 13-03174 $66.75
PA22, 28, Cherokee Six 13-03175 $47.75
Aerostar 601, Bellanca, Mooney 13-03176 $47.75
Glastar, Legend Cub, Rockwell 13-03177 $47.75
Alaskan Bushwheel, Scott 3200, 3400 13-03178 $47.75
Diamond DA-18 13-03179 $47.75
Diamond DA-40 13-03180 $47.75
Cessna 172RG, 177RG, 182RG, 210 13-03181 $64.75
Beachcraft Bonanza 13-03183 $64.75

See www.aircraftspruce.com for complete application list

TWO HITCH BALL RECEIVER
For the 12-03168 Universal Big Bogi Bar. With Ring ............P/N 11-11516 ............ $86.75
With Clevis ...........P/N 11-11157 ............ $86.75

ACCESSORIES

Accessories Part No. Prices
RV T/A Tow Bar 13-18726 $2,195.00
GLOBAL BIG BOGI TOWBAR
The 04M-GBB is unique because it can attach to virtually any aircraft. It has interchangeable “Feet” that can be matched to any aircraft. Each of the “Feet” typically adapts to several models or series of aircraft and several sizes can be carried right on the tow bar. This is perfect for FBO’s that deal with a variety of aircraft or aircraft owners that have more than one plane or shared hangars.

Part No. Price
Universal Big Bogi Bar 13-03168 $330.00
Jabiru Kit: Fox 13-03171 $49.95
Casena 150, 152, 172, 182, Vans, and many more 13-03172 $99.95
Cirrus SR20, 22 13-03174 $66.75
PA22, 28, Cherokee Six 13-03175 $47.75
Aerostar 601, Bellanca, Mooney 13-03176 $47.75
Glastar, Legend Cub, Rockwell 13-03177 $47.75
Alaskan Bushwheel, Scott 3200, 3400 13-03178 $47.75
Diamond DA-18 13-03179 $47.75
Diamond DA-40 13-03180 $47.75
Cessna 172RG, 177RG, 182RG, 210 13-03181 $64.75
Beachcraft Bonanza 13-03183 $64.75

See www.aircraftspruce.com for complete application list

NOSE WHEEL DRAGGER DRAGGER
The Nose-Dragger Dragger features a swing gate front roller (for easy loading), 10 ball bearing rollers (which push and guide the nose wheel), and does not require the use of adapters, winches, or hydraulics. Effortless ground handling is accomplished by its lightweight design and slow walking speed. The Nose-Dragger Dragger accepts nose wheels up to 600 x 6 (with or without wheel fairings), and no metal-to-metal or metal-to-fiberglass contact. Available in gas or electric power models. The 12V electric powered Nose-Dragger Dragger will accept aircraft up to 3,000 lbs. The Nose-Dragger Dragger Gas powered model accepts aircraft up to 6,000 lbs. Please call 1-877-477-7823 for freight quote.

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

ACCESSORIES

Accessories Part No. Prices
Snow Chains .................P/N 13-04932 $69.00
Battery Charger - 24V ..................P/N 13-04934 $105.95
Mag-Light / Head Lamp ................P/N 13-04935 $58.75

ELECTRIC DRAGGER NOSE-DRAGGER
This powerful 24-volt electric aircraft tug will fit and move any nose wheel airplane up to 5,000 lbs. Without wheel fairings as well as those with wheel fairings that have 3” or greater of clearance from the fairing to the ground. It utilizes a smooth thumb throttle speed control for precise forward and reverse movements. The built in differential allows for easier turning and even better control!

Comes with batteries and smart charger! Ships fully assembled! P/N 13-18726 $2,195.00

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

Ships on a skid. Comes with batteries and smart charger! P/N 13-18727 $2,195.00

TAILDRAGGER PICKER 1
The Baby Bush PICKER-1 is for tail-dragger/conventional gear aircraft and has 100% fully adjustable Picker-Pins on ((1)) side only. This towbar fits all Van’s RV tail draggers. The 12V electric powered Nose-Dragger is for larger Bushcraft thru 450 Stearmans. The PICKER you see here is a rugged built and powder coated tail dragger tow-bar made with heavy duty materials and hardware. A benefit of the design truly enables the pilot or ground crew to literally make an infinite number of adjustments to ensure a perfect fit every single time for a multitude of aircraft with tail wheels.

P/N 13-14774 .......... $315.00

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

P/N 13-16047 .......... $399.00

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. P/N 13-18893 $149.00

X - TENSION - 12 INCH
- Consider this ADD-ON product when the reach to your tail wheel is just too far away. Works good and needed for Stearman, WACO, Swift etc. Also works with the “Sport Picker-3” for smaller aircraft with tailwheels too far away from the back side of the aircraft. P/N 13-21073 $31.65

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

See www.aircraftspruce.com for COMPLETE MULTI-LINK SELECTION.
TOW BARS – TUGS

ROBOWEB TOW BAR

The all-weather Roboweb 24SL is lightweight (33 lbs.) and portable, making it ideal for carrying onboard your aircraft. When the Roboweb’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, Roboweb is an ideal power towbar for the aircraft listed.

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

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

THE “QUICK-FOLD COMPACT TOWBAR”

Aluminum compact towbar with no back breaking, bend over towing. Simply attach the QFC-Towbar™ extension to your existing Cessna tow bar and stand up straight. No more maneuvering, lifting required, and it can be adjusted for various tail wheel sizes.

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 assembly. 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 leash - Black....P/N 13-04681...$19.95
Tailwheel leash - Red....P/N 13-04682...$19.95

GENERAL AVIATION TOWBAR

This aircraft tow bar attaches to tow vehicle, or you can move by hand with the convenient handles. Improved with powder coating. This tow bar has been used on the following aircraft: Cessna 150, 172, 182, 205, 210, Cirrus SR-22, Mooney M20, Vans RV-9a. Check your aircraft owner’s manual, some aircraft manufacturers warn against towing with a bar attached to a vehicle. Make sure you do not exceed the tow limits of your aircraft. ……………………P/N 13-19787………$250.00

PIPER TOWBAR ADAPTER

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

P/N 13-19790 …………$27.75

BEECH TOWBAR ADAPTER

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

P/N 13-19793 …………$23.85

AIRPLANE ADAPTERS (SOLD SEPARATELY) - CONT’D

Roboweb Adapter Cessna 1 / 150, 172, 182, 310, 340...P/N 13-03907…$114.75
Roboweb Adapter Cessna 2 / 310R, 401, 414, 421...P/N 13-03908…$113.75
Roboweb Adapter Cessna 3 / 182RG (Pre-1962), 206, 210 (Pre-1962)...P/N 13-03909...$113.75
Roboweb Adapter Cessna 4 / 337, 303...P/N 13-03910...$191.75
Roboweb Adapter Cessna 5 / 182RG and 210 (1962-1986)...P/N 13-03911...$192.75
Roboweb Adapter Piper 1 / Apache, Comanche, Aztec, Navajo, Twin Comanche, Bellanca...P/N 13-03912...$113.75
Roboweb Adapter Piper 3 / Colt, Cherokee, Tri-pacer...P/N 13-03913...$191.75
Roboweb Adapter T28 Trainer...P/N 13-03914...$192.75
Roboweb Adapter Navion...P/N 13-03915...$192.75
Roboweb Adapter Commander 114B...P/N 13-03916...$192.75
Roboweb Adapter Cessna Caravan...P/N 13-03917...$192.75
Roboweb Adapter Trinidad...P/N 13-03918...$192.75

DELUXE TAILWHEEL TOWBAR

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

Note: Maximum weight to lift is 1,200 to 1,500 lbs. …………P/N 13-04918………$281.95

BOGERT ATC GROUND OPS KIT

ATC Ground Ops Kit. This Kit includes Bogert Tow Bars Bogi-Bars For Nosewheel, Rubber Wheel Chocks, Molded Wheel Chocks and Nylon Tie-Down Rope. In the box: …………P/N 13-11618………$398.00

HEAVY DUTY TOW BUDDY CORDLESS POWERBAR

Features: • No Flammable gasoline needed in hangar • Easy To Use • Inifinite Speed Control • Versatile Applications • Push button forward and reverse controls • Nose gear quick attach for easy nose gear hook up. • The adjustable fork height fits virtually any light aircraft • Trickle charger for battery • Large 16 x 6.50 - 8 turf tire • For aircraft weight of 3500 to 4500lbs. Battery no included.

P/N 13-04513………$1,534.00

NOSE PICKER HEAVY DUTY AIRCRAFT TUG

Recommended for up to a 4,000 pound aircraft. Entire chassis can be raised or lowered, and three different sized front wheels can be used to create exact measurements for aircraft. The 24 volt, ships assembled inside a wooden crate, Batteries not included. …………P/N 13-21166………$1,969.00

www.aircraftspruce.com
## 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.

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### Redline Accessories

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<tr>
<th>Part No.</th>
<th>Models</th>
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<td>Aero Commander Twin</td>
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<td>Beechcraft</td>
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<td>BE-001</td>
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### Redline Tow Bars

- **Sidewinder Carry Bag**: $55.75
- **Sidewinder Replacement Battery**: $212.95
**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. For attachment to a golf cart, tractor or other powered vehicle, please use the S-3 Vehicle Adaptor. Made in the USA using 4130 Chromoly material.

**Application** | **Part No.** | **Price**
--- | --- | ---
BE-3 Beechcraft - Fits Bonanza, Baron, Travel Air, T-34 | 13-06841 | $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), Malibu, Matrix | 13-06845 | $294.00

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**REDLINE BE-4 TOWBARS**

2-piece design for hand or powered use for heavier airplanes. Extends to 30”, 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), Malibu, 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.

**FITS THESE BEECHCRAFT MODELS:** Bonanza, Baron, Travel Air, T-34......P/N 13-06848...........$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 48.5”, collapses to 31.5” and weighs 3 pounds 4 ounces. Made in the USA using 4130 Chromoly material.

**UL-XT:** Fits ECLIPSE AIRCRAFT.  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.

**FITS THESE BEECHCRAFT MODELS:** Bonanza, Baron, Travel Air, T-34

**Application** | **Part No.** | **Price**
--- | --- | ---
UL - Beechcraft - Fits Bonanza, 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 | $229.95

---

**REDLINE STIFFY**

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

**Application: Beechcraft - Bonanza, Baron, Travel Air, T-34.................................P/N 13-04064 ............$225.00
**

**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.

**FITS THESE BEECHCRAFT MODELS:** Bonanza, Baron, Travel Air, T-34

P/N 13-01913 ...............$249.95

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**REDLINE SLIDER FOR ECLIPSE**

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

**FITS ALL ECLIPSE AIRCRAFT.**

P/N 13-06854 ............$149.00

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**WWW.AIRCRAFTSPRUCE.COM**

Prices Subject to Change Without Notice
AIRCRAFT TUGS

TRACE TOWBOTS REMOTE CONTROL AIRCRAFT TUG

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

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

<table>
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<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>Standard Model (No APU) Up to 15,000 lbs.</td>
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<td>Standard Model (With APU) Up to 15,000 lbs.</td>
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<td>Heavy Duty - Incorporates Gear Reduction and is 36V (No APU) up to 30,000 Lbs.</td>
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<td>Heavy Duty - Incorporates Gear Reduction and is 36V (With APU) up to 30,000 Lbs.</td>
<td>13-05735</td>
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PRICELESS TRANSAXLE BATTERY OPERATED TUG

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

Model 701 - Move aircraft weighing up to 4,500 lbs. Max Tow.

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

P/N 11-10807 .... $2,585.00

PRICELESS TRANSAXLE GAS OPERATED TUG

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

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

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

See www.aircraftspruce.com for Aircraft Application Charts

P/N 11-10808 .... $6,795.00

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 Robinson helicopter rotary aircraft up to max 8,800 lbs (4t) quickly and safely in tight areas. Environmentally friendly - no exhaust.

P/N 13-18770 .............................................. $2,755.00

TUGMAXXE®SM2.2 HELICOPTER TUG

Small, powerful, and reliable. Especially designed for Robinson Helicopters (R22, R44, and R66). Powerful high-torque rotary drive 24V 500W DC effective power electric motor resourcefully applied. Allows noiseless silent maneuvering and movement of 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 .............................................. $3,395.00

TUGMAXXE® ACCESSORIES

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922 WWWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
AIRTUG® 6-S GAS POWERED
The AIRTUG Model 6-S 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! Specifications: • 11 Gauge Heavy Steel Frame • Hydrostatic Transmission • 16"x 6"- 6 ply on 8" Drive Wheels • Drive wheels capable of handling nosewheel weights up to 2000 lbs. • Welded load mounting 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. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its’ pinpoint handling makes this unit a great choice. All of these features simply make this aircraft tug the best in the industry! Specifications: • 11 Gauge Heavy Steel Frame • Hydrostatic Transmission • 16"x 6"- 6 ply on 8" Drive Wheels • Drive wheels capable of handling nosewheel weights up to 2000 lbs. • Welded load mounting between the drive wheels for added traction.................P/N 13-07284 ......$3,595.00

AIRTUG® 10-H GAS POWERED
The 10-H aircraft tug model is the tug of choice for those who need to lower the tail to enter a hangar, and might also need to handle nose-wheel fairing aircraft. The nose-wheel can be raised by a hydraulic jack up as much as needed to a maximum of roughly 9”, thus lowering the tail by approximately double this amount. Additionally, it is easy to use because of its’ unique “Throttle Grip Control” system utilizing a hydrostatic transmission, electric starter and a heavy duty variable speed gasoline engine. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. A light is built in to ease seeing under the fuselage at night. Features: • Loading System: Hydraulic Lift Shoe with Winch Strap/ Strut Strap • Parts Warranty: 1 Year • Type of Starter: Electric • Engine: Four Stroke 10-HP or greater, electric or recoil start • Tow Weight: Up to 16,000 lbs. • Turning Radius: 360 Degree Specifications: • 2 Ton Hydraulic Jack for Lift Shoe • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle • 16" x 6" - 6 ply on 8" Drive Wheels • Drive Wheels Capable of Handling Nosewheel Weights up to 2000 lbs. • Low Profile unit for avoiding low aircraft hulls and flight controls with low axle and optional 13" Drive Wheels...............P/N 13-07289 ......$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 Heavy Duty Electric Motor, powerful Batteries, and built-in Battery Charger. They guarantee your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. Finally, its’ pinpoint handling combining twist grip control with a large, handle-mounted Caster makes this walk-behind Airtug a great choice. A light is also built in for ease of seeing under the fuselage at night. Features: • Loading System: Winch Strap/Strut Strap with Accessories • Parts Warranty: 1 Year • Engine: Heavy Duty 3HP Permanent Magnet Motor • Tow Weight: Up to 16,000 lbs. • Turning Radius: 360 Degree Specifications: • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle • 16" x 6" - 6 ply or 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 your safety with their “Return to Brake” feature that absolutely prevents any unintentional movement of the plane when the throttle grip is released. There is no metal to metal contact, no gears to shift and no jerky clutching systems to quickly wear out. A light is also built in for ease of seeing under the fuselage at night. Features: • Loading System: Hydraulic Lift Shoe with Winch Strap/ Strut Strap • Parts Warranty: 1 Year • Engine: Heavy Duty 3HP Permanant Magnet Motor • Tow Weight: Up to 16,000 lbs. • Turning Radius: 360 Degree Specifications: • 2 Ton Hydraulic Jack for Lift Shoe • 11 Gauge Heavy Steel Frame • Hydrostatic Transaxle • 16" x 6" - 6 ply on 8" Drive Wheels • Drive Wheels Capable of Handling Nosewheel Weights up to 2000 lbs. • Low Profile unit for lower axle clearances and 13’’ Drive Tires option.................P/N 13-07287 ......$5,495.00

AIRTUG® NFE-4 GAS POWERED FOR CIRRUS
Moves the CIRRUS Aircraft and other casing nose-wheel aircraft easily and makes moving the aircraft a simple task. The BEST TUG for CIRRUS aircraft or any other casing or non-casing 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 over the tail end. 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 on 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.

AIRTUG® NFE-4 ELECTRIC FOR CIRRUS
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. Assembles 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 ......$3,268.00

AIRTUG® NFE-4 CIRCUIT ADAPTER
Description Part Price
Airtug NFE-4 Circuit Adapter 13-14975 $285.00
Airtug NFE-4 Diamond Da20 Adapter 13-14976 $285.00
Airtug NFE-4 Diamond Da40 Adapter 13-14977 $285.00
Airtug NFE Adapter for Non-Cowling Aircraft 13-21625 $248.95
FLY TIES TIE DOWNS
FlyTies Tie Downs Rated “Top Choice” by Aviation Consumer
FlyTies® unique design allows quick insertion and quick removal using the easy-out extraction tool provided. Rugged, die-cast steel rods are 3/8” x 14’ for deeper penetration into harsh ground. Cumulative load capacity is 3,600 lbs. Kit includes 3 eas. Delrin 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 13-22751 .......... $99.95

TIE-DOWN EYE BOLT
For non-structural applications. The 7/16” dia. threaded shaft is 7/8” long. Hole is 5/8” dia. Overall length 2-1/2’. Furnished with AN365-720 plastic stop nut and wide-area AN370 lock nut.P/N 13-04303 ........ $9.75

AIRCRAFT TIE-DOWNS
These Aircraft Tie-Downs offer strong, durable, and easy to use tie downs for any weather condition. These tie downs are rated up to 3,000lbs. and tighten up with one quick pull. A sliding cap protects the buckle from freezing during cold weather and keeps grit out during windy field conditions. Each kit comes with: * Three 9 foot long tie down straps * Choice of tie down strap colors: black, forest green, red, royal blue or navy * A Dupont Cordura carrying bag with choice of colors: black, forest green, red, royal blue or navy Embroidery is available for an additional $5. Color is Red. P/N 13-06328 ........ $74.75

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

AIRCRAFT TIE-DOWN WITH EMBROIDERY
Aircraft Tie-Down offer strong, durable, and easy to use tie down for any weather condition. Up to 3,000lbs. and tighten with one quick pull. A sliding cap protects the buckle from freezing during cold weather and keeps grit out during windy field conditions. Kit Contains: A Dupont Cordura matching carrying bag. Specifications: • Strap Color: Red • Embroidery Color: White P/N 13-12672 .......... $85.75

SHOCKSTRAP™
ShockStraps™ are a unique shock absorbing tie down that incorporates three of the most versatile tie down principals into one superior system. It is quick and easy like a motorcycle tie down, has the reliability of a ratchet system, and versatility of a shock cord. ShockStrap™ stretches act as a shock absorber and contracts with the load keeping it secure. 6” Red Single Strap............... P/N 13-18502 ........ $19.95 6” Red Double Strap............. P/N 13-18501 ........ $39.95 7” Black Single Strap............. P/N 13-20707 ........ $32.95 7” Black Double Strap........... P/N 13-20708 ........ $64.99 10” Red Single Strap............ P/N 13-18503 ........ $23.95 10” Red Double Strap............ P/N 13-18504 ........ $43.75 12” Red Single Strap............. P/N 13-20709 ........ $29.95 12” Red Double Strap............ P/N 13-20708 ........ $74.99

TIE-DOWN STRAPS
MEDIUM STRAP KIT - 1500 lb. universal, 14 foot tie-down straps with 3000 lb. spring clip climbing type carabiners and 3000 lb. ground stakes. P/N 13-11228 ........ $173.75 LARGE STRAP KIT - 3000 lb. universal, 14 foot tie-down straps with 3000 lb. spring clip climbing type carabiners and 3000 lb. ground stakes. P/N 13-11229 ........ $199.75 HEAVY STRAP KIT - 5000 lb. universal, 14 foot tie-down straps with 5000 lb. spring clip climbing type carabiners and 5000 lb. ground stakes. P/N 13-11230 ........ $241.95

16” CORKSCREW TIEDOWN KIT
A versatile, general-purpose spiral anchor made from cold, rolled steel. Design for lightweight applications. Folding ring reduces profile and minimizes obstruction in high traffic areas. Bright orange color powder coating resists corrosion and helps provide added visibility. Use to secure small tents, trees, recreational use and patio furniture.
Features: • High pull performance: 500 pounds per anchor (results may vary dependent on soil types) • Installs in most soils in minutes • Lightweight, individual weight of 1 lb 13 oz. or 5 lbs. 7 oz. per kit • This kit includes: three 16” corkscrew tiedown anchor, one 3/8” nylon tiedown rope, and one tiedown bag - all complete with a manual including installation instructions! P/N 13-09652 .......... $59.75

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

Piper Tie Down Rings - aluminum painted - white P/N 13-11221 ........ $198.00 Piper Tie Down Rings - aluminum plated - white P/N 13-11220 ........ $198.00 Piper Tie Down Rings - buffed stainless P/N 13-11996 ........ $198.00 Piper Tie Down Rings - stainless - gold P/N 13-17626 ........ $236.95 Beech Tie Down Rings plated - white P/N 13-11222 ........ $198.00 Beech Tie Down Rings plated - stainless P/N 13-11223 ........ $198.00 Beech Tie Down Rings stainless steel P/N 13-11224 ........ $127.95 Beech Stainless Steel Tie Down Rings - gold P/N 13-17625 ........ $236.95

PIPER/BEECH SKID & STRIKE PLATES


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

STORMFORCE TIE DOWN ANCHORS
The Storm Force Aircraft Tie Down System is the STRONGEST, LIGHTEST, and BEST aircraft tie down available, and is compatible with all types of small aircraft. The Storm Force Tie Down Kit is perfect for aircraft under 3500lbs gross weight; for twin engine aircraft and aircraft above 3500lbs gross weight check out our Storm Force XL. Storm Force Aircraft Tie Down Kits are manufactured using lightweight yet extremely durable materials in order to provide pilots with exactly what they need to secure their aircraft with confidence. Capable of supporting 4200 lbs or more of force per unit, The Storm Force Aircraft Tie Down leaves the competition in the dust. Durable Powder Coated Light-Weight Design. P/N 13-21608 .......... $64.95

AEROSPOILER KIT, AEROSPOILER EXTENSION KIT
Kit contains 10 cup/receiver assemblies and 8 30”X3” inch blade assemblies. Each kit contains 100’ of grommeted coverages. The AEROSPOILER will reduce the lift producing capability of your aircraft wing by as much as 96% on the area of wing covered by the spoiler. Extension kits are available for aircraft requiring more than 20’ of wing coverage. Aero Spoiler Kit P/N 13-06505 .......... $178.00 Extension Kit P/N 13-06506 .......... $99.00

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

Features: Easy installation...Easy removal. No more struggling with screw-in anchors. The "Claw®" is designed exclusively for aircraft. The "Claw®" system has a 3600 lbs. combined capacity. The last tie down you ever will have to buy. Lifetime Warranty. Tremendous holding strength. The hardi- er you pull, the more the "Claw®" grips. Ideal for all aircraft. Works in hard clay, sandy soil or any- thing 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). Lightweight aircraft aluminum with hardened corrosion resistant die cast zinc plated spikes 25 ft 3/8" dia. solid braid polyester rope. Anchoring System ham- mer 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 3/8" rope. Wt: 8 lbs.

JEB’S REMOTE TIE-DOWN KIT

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

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. Both can be 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 baggie tie-down options to suit your current needs.

E-Z LOCK TIE-DOWNS

EZ Lock Tie Downs allow for simple, one-person tie-down of aircraft, with no knots to tie. Features weather-, oil- and gas-resistant polypropylene rope for long product life. 72" Fully Extended. Wt: 8 lbs.

SLIDEDOWN AIRCRAFT TIE DOWN

Made as a "one size fits most aircraft", the Slidedown is easily adjustable to reach most anchor points. Maximum reach on the tail is approximately 54 inches. The Slidedown can be shortened to accommodate just about any length. The Slidedown is proudly Made in the USA and available in a variety of colors. Features: Powder Coated Aircraft Grade Aluminum Slide, 7/16” Kermitant Braided Rope available in a variety of colors, Vinyl Coated Hooks, and a maximum Reach: Wings 100”, Tail 54”. Sold in sets of 2.

CARAVAN TAIL TIE-DOWN HANDLE

Airframes P/N AF2612035-1″ Tail tie down handle, rear, Direct replacement for Cessna P/N 2612035-1. Eligible for all S/N aircraft, Cessna models 208 and 208B. FAA PMA Approval. Specifications: • Precision fit - drop in replacement for the original part • Aircraft interface unchanged • Tail stand interface unchanged - works with your existing tail stand • Comes primed and ready for installation • FAA PMA Approved • All S/N aircraft. Cessna models 208 and 208B. P/N 05-12267...$46.50

SMART ANCHOR TIE DOWN SYSTEM

SmartAnchor is an advanced 3-pin anchoring system developed for securing aircraft. It has the below features: • Patented design enables it for both vertical pull and 45° pull. • Weight is 8 lbs. • Lifetime Guarantee. Includes: • 3 ea. steel alloy casting anchor; • 9 ea. 1045 hi-carbon steel spikes; the diameter of the spike is 3/8” and length is 12”; • 3 ea. 10’-ft in long 3/8” dia diamond braid nylon ropes; • 1 16 oz hammer; • 1 black durable carrying bag...
P/N 13-16783...$79.95

RANS TIE DOWN SHACKLE

This stainless steel field tool will fit any 1 inch wide attach point, but is made special for most RANS aircraft that have RANS aluminum lift struts. The shackle is designed to accept chain or rope without marring the struts...
P/N 13-10435...$9.80

NELSON AIRCRAFT TIE-DOWNS

- Three 15” welded (not bent) steel anchors with sharp tips for easy installation - Three 15’ nylon ropes- Cordura, Intl. Orange, 8”x15” case Wt: 4 lbs.

THE PILOT BUDDY

A pilot actuated safety and restraint system for hand propping and tail tie down. Constructed to meet and exceed the load for purpose of positive restraint. Has a Black Velour storage Pouch (4” x 5”), and a slightly smaller restraint loop ring. The entire device and storage package weighs less than 2 OZ, and fits in the palm of your hand. Both the restraint loop and release lanyard (Right side -6 yards = 18’) are constructed of MIL Specification, MIL- C-5040, 750 pound test line. The Swing Latch Shackle release is tested certified to 800 pounds tensile strength for operating loads. The Swing Latch mating ring on the Restraint loop (Left Side), is a ring constructed to MIL Specification. MS27762, with a tensile strength of more than 750 pounds. Package comes with instructions, a checklist for use, and other increasing safety materials.

NYLON TIE-DOWN ROPE

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

AIRCRAFT TIE DOWNS

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

TOUGHMAN TIE-DOWN

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

BIG SCREW EZ TIE DOWN

Big Screw EZ Tie Down is an innovative tie down system combining a lightweight 18” cast aluminum ground screw, and a custom aviation designed attachment strap. The 18-inch long cast aluminum screw provides strong ground holding in all soil types. The screw penetrates deeply into compacted soils resulting in superior holding strength. This exclusive design provides two to three times the holding strength of spike type angled-in tie-downs. Large 1/4” Wide screw provides 80 Square inches of Ground Contact Area, 40 times more than a spike. The screw can be driven either directly or set out from several feet away. Quick easy installation and removal using a 1” ratchet, 1” socket, or a portable impact wrench (not included)...
P/N 13-21309...$139.95

WWW.AIRCRAFTSPRUCE.COM
ASA WHEEL CHOCKS

These tire stops are for keeping aircraft securely parked. A pair of black molded plastic wheel stops are connected with 22” bright yellow and black braided nylon rope that won’t rot or retain water. The 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 ...........$33.75

MOLED WHEEL CHOCKS

The “Perfect” lightweight orange urethane aircraft wheel chocks. Oil and chemical resistant and coated with a 22” inch nylon rope. Concave design that fits into tire. Larger sizes available. Yellow ..................P/N 13-11857 ........$46.85

PARK IT PLATES

Park It Plate™ “Standard Series” Plates are made from 100% HDPE and come in a thickness of 1/4”. These are designed to be used on solid, flat surfaces found in hangars, garages, showrooms, and are resistant to most chemicals. They protect your investment in your finished floor coatings from stains and permanent tire marks and will greatly reduce the possibility of paint blistering and delamination. Most importantly, they do all this and make your aircraft, look good at the same time! 24x24 .....................P/N 13-18429 ..........$53.95 30x30 .....................P/N 13-18430 ..........$83.95

HANDY CHOCKS

5904 “Handy Chocks” Weight - 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 blocks. It can easily be modified to fit almost any type of chock block. This type of chock block pull rope is designed to reduce wrist, hand and finger injuries as well as making it safer to chock and un-chock aircraft and vehicles. Specify color for Powdercoated Chocks.

WOOD WHEEL CHOCKS

These wood wheel chocks are lightweight and 12” long made of 25” thick aircraft grade aluminum. They are designed to fit almost any type of chock block. Standard chocks..............................P/N 13-01765 ........$34.55 Chocks w/ your N# or company name........P/N 13-01766 ........$57.75

WOOD WHEEL CHOCKS

Very light weight wheel chock designed for airplanes and other vehicles. Compact and easily stored. Powder coated in durable red, blue, or yellow color. Available in 3 lbs. Chock set is for one wheel only. Small - 1 1/2” angle x 6” long x 1/8” Thick Heat Treated Alum. Medium - 2’ x 2’ x 8 1/8” Thick Angle Heat Treated Alum. Large - 3 1/2” x 3 1/2” x 8” Heat Treated 3/16” Thick Alum.

TRAVEL CHOCKS

Very light weight wheel chock designed for airplanes and other vehicles. Compact and easily stored. Powder coated in durable red, blue, or yellow color. Available in 3 lbs. Chock set is for one wheel only. Small - 1 1/2” angle x 6” long x 1/8” Thick Heat Treated Alum. Medium - 2’ x 2’ x 8 1/8” Thick Angle Heat Treated Alum. Large - 3 1/2” x 3 1/2” x 8” Heat Treated 3/16” Thick Alum.

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, boats trailers, and any other type of vehicle. 50x5x600 x600 ...........P/N 13-19776 ..........$62.95 700x6x600 ..............P/N 13-19777 ..........$68.95

CUSTOM WHEEL CHOCKS FOR LARGE JETS

These custom wheel chocks are lightweight aluminum for large corporate jets. These wheel chocks are carefully fabricated, engraved and then covered with durable powder coating available in grey, black, or orange. In addition to being stylish, these wheel chocks are very durable, long lasting and won’t corrode. These are offered as a single pair for nosewheel or as two pair (one for each main wheel). Designed for single main wheel aircraft and are 12” long and made of .25” thick aircraft grade aluminum. P/N 13-04298 ...........$17.95

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 13-04298 ...........$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 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

RUBBER WHEEL CHOCKS

These ribbed rubber wheel chocks measure 4”x4”x8” and have reflective tape on all three sides. Connected with nylon rope. Very popular with corporate operations & FBOs. P/N 01767 ...........$62.75

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 charactors may not exceed 6. ( Ex : N# xxxx - (Text) ) Chocks - 1.5” 48 oz for two pairs.

TRAVEL CHOCKS

FEATURES

- Lightweight
- Durable aluminum
- Easy to use
- Securely holds aircraft
- Made in USA
- Waterproof

APPLICATIONS

- Airports
- FBOs
- Private hangars
- Aircraft maintenance

PRODUCTS AVAILABLE

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

Specifications:

- Weight: 9 oz per pair, or 18 oz for complete set of two.
- Made from durable powder-coated aluminum
- Thickness: 3/16”
- Perfect for storing aircrafts in appropriate places

Benefits:

- Easy to use
- Durable and long-lasting
- Lightweight
- Ideal for aircraft maintenance

ATTENTION: Total of characters may not exceed 6. (Ex: N# xxxx - (Text) )
**SCOTT’S WINDSOCKS**

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

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**BRIGHT ORANGE**

<table>
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<th>Part No.</th>
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**INTENSE WHITE**

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**WHITE/ORANGE STRIPE**

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**SCOTT’S STANDARD WINDSOCK FRAMES**

These very popular frames are constructed of welded steel for strength & durability. They have 2 ball bearings for easy swiveling and are painted for corrosion resistance. The frame is mounted to a 1-inch diameter support pipe threaded to fit a 3/4” size pipe or conduit. Order windsocks separately.

<table>
<thead>
<tr>
<th>Throat Dia.</th>
<th>Length</th>
<th>Part No.</th>
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**SCOTT’S EXTENDED WINDSOCK FRAMES**

The extended frame turns much easier and keeps the windsock headed into the wind like a weathervane. The frame holds the windsock open for easier visibility. They are constructed of welded steel with 2 ball bearings. The frame is mounted to a 1-inch diameter support pipe threaded to fit a 3/4-inch size pipe or conduit. ORDER WINDSOCKS SEPARATELY.

---

**STANDARD WINDSOCK FRAMES**

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

<table>
<thead>
<tr>
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**MINIATURE 15” WIND SOCK**

For home, office, hangar or workshop. The 15” long wind cone of Flame-Orange sailcloth material swivels on 23” high steel shaft. Wind directionals are cast aluminum with flat black finish. Furnished with mounting hardware and instructions. Complete Kit ........ P/N 13-03747 .... $59.75

**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. Complete Windsock w/frame P/N 13-20015 .... $59.95

**NYLON WINDSOCKS**

These socks are windtunnel tested and designed for conditions in which safety and wind direction are of greatest importance.

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

---

**LONG LIFE WINDSOCKS**

All Long Life Windsocks are made of heavyweight cross-woven aviation blend material having special Rip-Stop characteristics, flexible, chemically resistant treated, Polyurethane Coated for bonding strength and water repellency. Ultra-violet dyed, with Nylon Web support and brass grommets. Color: Colorfast International Orange. Estimated 50% longer life and color retention. Aviation sized windsocks. FAA approved sizes per FAA Advisory Circular AC 150/5345-27C dated 07/85. Estimated wind speeds: Fully extended shape for all sizes listed below, (wind tunnel tested) to be special cut Specification of 07/85. Estimated 50% longer life and color retention.

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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. “Extra Long Life” windsocks have an estimate 50% longer life and color retention.

---

**PART NO. SIZE (IN) PRICE**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size (in)</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-04316</td>
<td>12” x 48”</td>
<td>$54.95</td>
</tr>
</tbody>
</table>

---

**ORDER WINDSOCKS SEPARATELY.**

---

**WINDSOCKS**

P/B WINDSOCKS

P/N 13-02004 10” diameter, 36” long, $32.95

P/N 13-02005 18” diameter, 48” long, $41.95

P/N 13-02006 36” diameter, 144” long, $152.90

P/N 13-02007 20” diameter, 96” long, $115.75

---

**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**

WWW.AIRCRAFTSPRUCE.COM
AIRPORT WINDSOCKS

What makes these aviation windsocks different?

Two major things make a windsock, its material and its construction. Starting off with a premium nylon fabric that is made right here in the USA to exact standards. Nylon offers unparalleled windsock durability to the elements and will not become rigid in cold weather, keeping these windsocks extremely responsive in even the slightest of wind. From there it gets urethane coated and UV protected, giving the windsock superior fade resistance and color retention. The material is subjected to a variety of tests by an independent lab to verify its structural integrity and UV resistance. This superior material is then cut and sewn. Our reinforced double stitched hems and heavy duty brass grommets, assures these windsocks long life reliability. The added expense of a superior material and manufacturing process meets the needs of even the most demanding windsock customers. Such as: US Military, US Coast Guard, US Embassies, State Airports, Offshore Oil Rigs, Nuclear Power Plants, Medical Heliports, Government Bio Hazard Units.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange Windsock</td>
<td>4” x 15”</td>
<td>13-06388</td>
<td>$17.90</td>
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<td>Orange Windsock</td>
<td>6” x 24”</td>
<td>13-06387</td>
<td>$18.50</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>8” x 36”</td>
<td>13-06388</td>
<td>$24.70</td>
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<td>Orange Windsock</td>
<td>10” x 36”</td>
<td>13-06389</td>
<td>$26.50</td>
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<tr>
<td>Orange Windsock</td>
<td>13” x 54”</td>
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<td>$40.65</td>
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<tr>
<td>Orange Windsock</td>
<td>18” x 60”</td>
<td>13-06466</td>
<td>$46.90</td>
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<td>Orange Windsock</td>
<td>18” x 72”</td>
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<td>Orange Windsock</td>
<td>18” x 96”</td>
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<tr>
<td>Orange Windsock</td>
<td>20” x 96”</td>
<td>13-06469</td>
<td>$69.75</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>24” x 96”</td>
<td>13-06470</td>
<td>$74.72</td>
</tr>
<tr>
<td>Orange Windsock</td>
<td>36” x 144”</td>
<td>13-06471</td>
<td>$141.75</td>
</tr>
</tbody>
</table>

VERBAL WINDSOCK KITS

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Mount Windsock Kit</td>
<td>8” x 36”</td>
<td>13-06497</td>
<td>$91.75</td>
</tr>
<tr>
<td>Vertical Mount Windsock Kit</td>
<td>10” x 36”</td>
<td>13-06498</td>
<td>$124.95</td>
</tr>
<tr>
<td>Vertical Mount Windsock Kit</td>
<td>18” x 60”</td>
<td>13-06499</td>
<td>$119.75</td>
</tr>
<tr>
<td>Vertical Mount Windsock Kit</td>
<td>18” x 96”</td>
<td>13-06501</td>
<td>$121.99</td>
</tr>
</tbody>
</table>

TRIPOD MOUNT WINDSOCK KIT

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tripod Mount Windsock Kit</td>
<td>8” x 36”</td>
<td>13-06497</td>
<td>$91.75</td>
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<td>Tripod Mount Windsock Kit</td>
<td>10” x 36”</td>
<td>13-06498</td>
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</tr>
<tr>
<td>Tripod Mount Windsock Kit</td>
<td>18” x 60”</td>
<td>13-06499</td>
<td>$119.75</td>
</tr>
<tr>
<td>Tripod Mount Windsock Kit</td>
<td>18” x 96”</td>
<td>13-06501</td>
<td>$121.99</td>
</tr>
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</table>

PORTABLE WINDSOCK KIT

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable Windsock Kit</td>
<td>6” x 24”</td>
<td>13-06500</td>
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<tr>
<td>Portable Windsock Kit</td>
<td>8” x 36”</td>
<td>13-06501</td>
<td>$140.75</td>
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</table>

AVIATION UNLIT WINDSOCK FRAMES

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>13” w/ Windsock</td>
<td>13-04330</td>
<td>$149.75</td>
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<tr>
<td>18” w/ Windsock</td>
<td>13-04331</td>
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<tr>
<td>20” w/ Windsock</td>
<td>13-04332</td>
<td>$318.00</td>
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<tr>
<td>24” w/ Windsock</td>
<td>13-04333</td>
<td>$364.00</td>
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<tr>
<td>36” w/ Windsock</td>
<td>13-04334</td>
<td>$1,050.00</td>
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</table>

AVIATION LIGHTED WINDSOCK FRAMES

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windsock Stationary Base</td>
<td>13-04335</td>
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<tr>
<td>Windsock Hinged Base</td>
<td>13-04336</td>
<td>$207.95</td>
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<tr>
<td>Windsock Heavy Duty Pole</td>
<td>13-04337</td>
<td>$151.75</td>
</tr>
<tr>
<td>Windsock Galvanized Pole</td>
<td>13-04338</td>
<td>$50.75</td>
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</table>

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 threaded pipe.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6” diameter P/N</td>
<td>13-20120</td>
<td>$68.75</td>
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</tr>
<tr>
<td>9” diameter P/N</td>
<td>13-20121</td>
<td>$74.95</td>
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<tr>
<td>10” diameter P/N</td>
<td>13-20122</td>
<td>$82.75</td>
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</table>
WINDSOCKS

WINDCONE WINDCONEs come in 3 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 12" and smaller are made of 7 oz. vinyl. All other windcones are made of 9 oz. vinyl - Nylon - This is a light weight (6 oz.), easily inflatable material that is UV coated. Cotton Duck - A heavy duty (9 oz.) cotton army duck which is water repellent and mildew resistant.

STANDARD WINDSOCKS

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot; x 30'L Sock</td>
<td>05-05222</td>
<td>$31.70</td>
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<tr>
<td>13&quot; x 56'L Sock</td>
<td>05-05223</td>
<td>$38.75</td>
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<tr>
<td>18&quot; x 71'L Sock</td>
<td>05-05224</td>
<td>$61.75</td>
</tr>
<tr>
<td>24&quot; x 120'L Sock</td>
<td>05-05225</td>
<td>$77.75</td>
</tr>
<tr>
<td>36&quot; x 120'L Sock</td>
<td>05-05226</td>
<td>$115.75</td>
</tr>
</tbody>
</table>

STANDARD FRAMES

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot; Frame requires 3/8&quot; pipe mount</td>
<td>05-05227</td>
<td>$55.75</td>
</tr>
<tr>
<td>13&quot; Frame requires 1/2&quot; pipe mount</td>
<td>05-05228</td>
<td>$63.75</td>
</tr>
<tr>
<td>18&quot; Frame requires 3/4&quot; pipe mount</td>
<td>05-05229</td>
<td>$71.75</td>
</tr>
<tr>
<td>24&quot; Frame requires 3/4&quot; pipe mount</td>
<td>05-05230</td>
<td>$72.99</td>
</tr>
<tr>
<td>36&quot; Frame requires 1-1/4&quot; pipe mount</td>
<td>05-05231</td>
<td>$198.75</td>
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</tbody>
</table>

REPLACEMENT WINDSOCK FOR LIGHTED FRAME

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

P/N 05-05232 .......... $79.75
P/N 05-06249 .......... $29.95
P/N 05-06250 .......... $38.55

13" WINDSOCK & FRAME

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

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

36" COMMERCIAL/ MILITARY WINDSOCK

Designed to conform to rigid Federal Standard No.565 with International Orange Mil Spec CCC-C-476 nylon. This sock has a four-fold reinforced collar, throat, and tail, with double-stitching, coated weather guard finish. Smooth free swiveling movement with low maintenance. The standard frames (sold separately).

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 45.5 ft. This windsock is not a toy, but an honest-to-goodness windsock! Ideal for heliports, hangers and private airstrips.

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

Manufactured by

WWW.AIRCRAFTSPRUCE.COM

929
MONTAGUE FOLDING BICYCLES

MONTAGUE CROSSTOWN BIKE
Color: Ghost White/Black. Frame: Custom drawn 7005 Series, Aluminum tubing with FIT System. Fork: Rigid Unicrown, with CLIX™ Rims: Alex. 28mm hole, Silver, 700c, Kendra Kwick. Spokes: 14 Gage Saddle: Performance comfort with Internal Springs and “Center Gap”. Seatpost: 27.2 X 300mm

Alloy. Handlebars: Riser style 30mm rise, 600mm wide. Alloy. Black


17 in Frame: 4’8” - 5’2” 700C..........................P/N 13-07241 $659.95
19 in Frame: 5’3” - 5’7” 700C..........................P/N 13-07242 $659.95
21 in Frame: 5’8” - 6’0” 700C..........................P/N 13-07243 $659.95

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

13 in Frame ..........................................................P/N 13-21876 $2499.00
20 inch Frame .......................................................P/N 13-21868 $2499.00

MONTAGUE NAVIGATOR BIKE


19 in Frame: 5’3” - 5’10” 700C..........................P/N 13-12970 $995.00
20 in Frame: 5’11” - 6’4” 700C..........................P/N 13-12971 $995.00

MONTAGUE BOSTON BIKE


18 in Frame: 4’8” - 5’2” 700C..........................P/N 13-07244 $699.95
19 in Frame: 5’3” - 5’7” 700C..........................P/N 13-07245 $699.95
21 in Frame: 5’8” - 6’0” 700C..........................P/N 13-07246 $699.95

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

18 in Frame ..........................................................P/N 13-19002 $1245.00
20 in Frame ..........................................................P/N 13-19003 $1245.00

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

16 in Frame ..........................................................P/N 13-21864 $635.00
18 in Frame ..........................................................P/N 13-21865 $635.00
20 in Frame ..........................................................P/N 13-21866 $635.00

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

18 in Frame ..........................................................P/N 13-21863 $1895.00
21 in Frame ..........................................................P/N 13-21868 $1895.00

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

17 in Frame ..........................................................P/N 13-21869 $749.95
19 in Frame ..........................................................P/N 13-21870 $749.95
21 in Frame ..........................................................P/N 13-21861 $749.95

MONTAGUE ACCESSORIES
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 tight space constraints.

P/N 13-03745 $34.95

MONTAGUE CARRYING CASE
Montague’s soft-sided bicycle carrying case, made of 420 Denier nylon, provides great protection at an affordable price. The carrying case features an inner YKK zipper for the front wheel, a direct mount shoulder strap, two side handles, double-layered nylon bottom and the heaviest YKK zipper available.

P/N 13-08406 $99.95

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

18 in Frame ..........................................................P/N 13-01069 $895.00
20 in Frame ..........................................................P/N 13-01070 $895.00

MONTAGUE CARRYING CASE
Montague’s soft-sided bicycle carrying case, made of 420 Denier nylon, provides great protection at an affordable price. The carrying case features an inner YKK zipper for the front wheel, a direct mount shoulder strap, two side handles, double-layered nylon bottom and the heaviest YKK zipper available.

P/N 13-08406 $99.95
**TRIKKE TRIBRED PON-E**

Tribred Pon-e: transportation/fitness/joyride 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 36V • 9Ah Lithium-Ion battery with Panasonic cells • Features key & lock • 2 Modes: ECONO max 12 mph / EXPRESS max 17 mph.

**TRIKKE GREEN**

36V - 9Ah Lithium-Ion battery with Panasonic cells • Features key & lock brushless • Geared hub motor 250W • Loop wheel clutch • Removable 36V • 9Ah Lithium-Ion battery with Panasonic cells • Features key & lock brushless • Geared hub motor 250W • Loop wheel clutch • Removable

**MOTORIZED SCOOTER**

DAHON FOLDING BICYCLES

**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 SPEED UNO**

The answer to no-hassle riding anytime. Last year Dahon introduced the functional, simple, stealthy-looking Mu Uno and it quickly became the favorite of all who touched it. The Speed Uno is just as stealthy and portable but even simpler and more affordable. Take one everywhere. BioLogic FreeDrive keeps chain and clothes clean. Folds completely in under 10 seconds. Luggage Socket for attaching a variety of bags and baskets.

**DAHON SPEED D8**

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

**DAHON ACCESSORIES**

**VELOMINI PLUS WHITE ELECTRIC BIKE**

Velomini is small, light weight, cute, versatile, convenient, and durable. They fold down so small 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 Velominis include front LED light, solar charging rear light, rack and carrying case. The Velomini+ is one of the lightest electric bikes in the world which folds to only 34”L x 24”H x 12”W...P/N 13-20152...$1,295.00

**DAHON JACK D7**

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

**DAHON JACK D8 - FROST**

With a low-step through frame, larger 24” wheels and inspired by the famous bikes of Amsterdam, the full-size Briza D8 is easy to fold and serves up all the versatility only DAHON can offer. No more aching feet, bus fares or restricting schedules, see the city at your own pace. When you’re done, simply fold the bike away.

**GO-PED LIGHTWEIGHT MOTORIZED SCOOTER**

Operation is easy with the simple push start capability, just push and Go, stop and fold the bars for carry and you can take the Sport with you anywhere. Specifications: • Engine Model: GPL290 • Engine Description: Single Cylinder, Two Stroke, Air Cooled • Engine Displacement: 29cc • 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-42”. Folded L-34” W-13” H-14” • Handlebar: 6061-T6 aircraft aluminum • Frame Aircraft quality: 4130 Chromoly frame • Fork: Patented: cantilevered aircraft quality 4130 Chromoly fork • Dry 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.

**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, in a car trunk, in a gym locker, and it also works well with public transportsations. Whether you’re going the distance or just that extra mile, EcoReco M3 provides a convenient and economical ride for you, and cleaner air for all.

**TRIKKE Silver**

Go-Ped (Sport Model) Blue for easy storage and carrying • Suggested Useage: City / Cruising. Caliper • Rear Brake: Compression • Folding Effortless folding feature. lbs • Wheel Type: 6” Solid Go-Active™ Rubber replaceable tire • Rims

**P/N 13-08835 $1,699.99**

**P/N 13-08836 $1,895.00**

**P/N 13-08381 $728.47**

**P/N 13-08380 $728.47**

**P/N 13-08340 $11.80**

**P/N 13-00789 $399.00**

**P/N 13-10424 $749.00**

**P/N 13-10423 $749.00**

**P/N 13-10422 $749.00**

**P/N 13-21505 $699.00**

**P/N 13-20152 $1,295.00**

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**P/N 13-18595 $999.00**

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**P/N 13-06077 $969.22**

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**PARA-CUSHION PARACHUTES**

**PARA-CUSHION 311 - WEDGE**
The Para-Cushion 311 Wedge measures 24" (61 cm) tall by 16" (40.5 cm) wide by 1" (2.5 cm) thick at the shoulders and 3" (7.5 cm) thick at the lower back, and weighs approximately 16 lbs (7.3 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 where headroom is a minimum and the backrest is at a straight upright angle with the seat bottom, such as a Pitts S1, Pitts Model 12, Christen Eagle, RV-4, RV-6, Harmon Rocket, and many others. System Comes Complete with: Harness/Container, Ripcord, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B. P/N 13-14799...... $2,475.00

**PARA-CUSHION 304 - SEAT**
The Para-Cushion 304 Seat measures 12" (30.5 cm) tall by 16" (40.5 cm) wide by 1/2" (1.3 cm) thick through-out the back, and 3" (7.5 cm) thick in the seat cushion, and weighs approximately 18.5 lbs. (8.4 kg). The 304 is designed to be used in place of a seat cushion. By using an additional Confor® Foam cushion the seat thickness of the pack may be from 1" (2.5 cm) to 6" (15 cm) thick depending on the type of airplane and how high the user desires to be in the cockpit. The parachute assembly is designed to be used in airplanes where head room is not restricted or moving forward in the cockpit is not possible including: Skybolt, Yak 52, Yak 55, CJ-6, Stearman, Great Lakes, Pitts S 2B, Decathlon, RV-4 and many others. For RV-4 and RV-6 the seat container is modified slightly to fit exactly the 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...... $2,184.00

**PARA-CUSHION 306 - SQUADRON SEAT**
The Para-Cushion 306 Squadron Seat measures 16.5" (42 cm) tall by 13" (33 cm) wide by 6.5" (16.5 cm) thick and weighs approximately 19.5 lbs. (8.8 kg). Color Options: Stock Colors are Black, Navy Blue, Royal Blue, and Olive Drab. This applies to Container, trim, and harness colors. Color Choices: Black, Red, Navy Blue, Royal Blue, and Olive Drab. The pack and cushion combination are shaped to fit fully into the seat to provide a large, and 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: SNJ-1-T-6, Harvard, T-34, T-28, P-51, Stearman, and many others. TSO - C23c cat. B. P/N 13-03450...... $1,263.00

**ACROPRO PARACHUTE**
The AcroPro is designed with Acrobatic 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" (40.5 cm) wide by 3" (7.5 cm) thick weighs approximately 15 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 Suspension Line and ReeseBag, or the Aerobatic Harness at no additional charge. Disadvantages -- Heavy and expensive hardware.

**ACCESSORIES**

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

**CAPEWELL RISER RELEASE** - For landing in high wind conditions to release the parachute, to prevent dragging. Disadvantages -- Heavy and expensive hardware. P/N 13-04908...... $482.00

**LUMBAR SUPPORT PAD** - A rounded Tempor® foam pad that attaches in existing channel. Adjustable to just the right position in the seat bottom, our back, or our seat. P/N 13-15065...... $74.75

**PARA-CUSHION G-PAD CUSHION** - An auxiliary pad that attaches to the back pad of any Para-Cushion. G-pad is formed to snugly fit around the pilot’s sides providing extra support during high G maneuvers. P/N 13-15068...... $527.75

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

**PARA-CUSHION 305 - CHAIR**
The Para-Cushion 305 Chair measures 42" long (105 cm) by 16" (40 cm) wide by 2.5" (6.5 cm) thick and weighs approximately 16.5 lbs. (7.5 kg). This back mounted container is designed 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 a Grob, Giles 202, 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 13-03442...... $2,045.00

**PARA-CUSHION 303 - BACK**
The Para-Cushion 303 measures 24" (60 cm) tall by 16" (40.5 cm) wide by 3" (7.5 cm) thick and weighs approximately 15 lbs. (6.5 kg). In many cases, by removing the back cushion of the seat pan, the pilot may place the 303 in it’s place. The 303 Back is recommended for use in airplanes where head room at a minimum and moving forward in the cockpit is not possible for use in airplanes such as: ASW-27, PW-5, Cap-10, Zlin 50, and Christen Eagle. System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B. P/N 13-03440...... $2,174.00

**PARA-CUSHION L-39**
The Para-Cushion L-39, measures 27" (68.6 cm) tall by 17" (43.2 cm) wide by 3.5" (9.9 cm) thick and weighs approximately 25.9 lbs. (11.7 kg). The L-39 is designed exclusively for the L-39 Albatross. The design incorporates existing Russian designed pilot restraint system found on the original assembly, including shoulder roller guide for inertial reel seat belt buckles at the hips. This provides you with fit-and-fly technology that perfectly replaces the original equipment and gives you peace of mind knowing that you have a comfortable, top of the line system. System Comes Complete with: Harness/Container, Mid-Lite Parachute, Ripcord, Travel Cushion, G-Pad, Static Line, Lil Grabber Pilot Chute, Carry Bag, and Manual. TSO - C23c cat. B. P/N 13-15068...... $3,412.00

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

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| P/N 13-14782 | $1,090.00 |

**STATIC LINE** - 15’ Static Line including B-12 Snap and RW-3 Ring. P/N 13-16009...... $40.00

**SHEEPSKIN BACK PAD** - Sheepskin pads keep you cool in the summer and warm in the winter. Smoke. P/N 13-11307...... $168.75

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**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 harness. Snaps...... P/N 13-04909...... $135.75

**AERO PAD** - A zip-on seat pad held in place by the pilot’s weight to restrain the Para-Cushion and prevent shifting during high maneuvers. P/N 13-15067...... $91.85
NATIONAL PARACHUTES

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

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

NATIONAL PARACHUTE 360 PREMIUM SEAT
National's Seat Pack is especially desirable when the cockpit has more vertical space than horizontal. For added comfort, the seat pad has one inch of "Astronaut Foam" above the parachute container (user accessible/adjustable via Velcro closure). Color choices include: Navy blue, Royal Blue, Red, Red and Black. All four color choices are available with matching binding and harness or black binding, diamond quilting and harness.

360 = Recommended Pilot Weight is up to 177 lbs.

NATIONAL PARACHUTE 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.

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

NATIONAL PARACHUTE 425 PREMIUM SEAT
National's Seat Pack is especially desirable when the cockpit has more vertical space than horizontal. For added comfort, the seat pad has one inch of "Astronaut Foam" above the parachute container (user accessible/adjustable via Velcro closure). Color choices include: Navy blue, Royal Blue, Red, Red and Black. All four color choices are available with matching binding and harness or black binding, diamond quilting and harness.

425 = Recommended Pilot Weight is up to 208 lbs.

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

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

SOFTIE EMERGENCY PARACHUTES

MINI-SOFTEE - 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 Standard Harness or Aerobatic Harness. Container is 2.25" thick x 15" wide x 23" long. Canopy Type: Steerable Conical. Total weight: 15 lbs.

P/N 13-03505-X... $2,585.00

MICRO-SOFTEE - 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 Aerobatic harness. Container is 2.25" thick x 13" wide x 22" long. Canopy Type: Steerable Conical. Total weight: 14 lbs.

P/N 13-03510-X... $2,585.00

LONG-SOFTEE - Designed to conform to and maximize the comfort of the seating found in todays high performance gliders and aerobatic aircraft. Available in either 180 lb. (13" wide) or 240 lb. (15" wide) versions. Choice of standard H harness or the unique cross over style Aerobic Harness. Container specifications: 2.25" thick x 13" or 15" wide x 35" long. Canopy Type: Steerable Conical. Total weight: 16 lbs.

P/N 13-03515-X... $2,635.00

SOFTIE-SEAT PACK - Designed for use in aircraft that have no room for a backpack style parachute. Used by persons weighing up to 240 lbs. Container is 15" wide 14" fore & aft 2 1/2" thick. Canopy Type: Steerable Conical. Total weight: 16 lbs. .................P/N 13-09052-X... $2,627.00

WEDGE-SOFTEE - Designed specifically to add lumbar and sacral support during high, positive G maneuvers. Ideal for the upright seating found in Pitts style seating. Available in either 180 lb. or 240 lb. versions. Choice of standard H harness or our unique cross over style Aerobic Harness. Container is 2.25" thick at bottom, 1/2" thick at top x 15" wide x 23" long. Canopy Type: Steerable Conical. Total weight: 15 lbs.

P/N 13-03554...... $2,585.00

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" thick. Canopy Type: Steerable Conical. Total weight: 17 lbs...........P/N 13-03520-1A $2,627.00

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

VISIT OUR WEBSITE FOR ADDITIONAL OPTIONS AND HARNESS CHOICES.

NATIONAL PARACHUTES

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Checkmate Checkmate Standard Checklists is 6.5” x 9” size. Checkmate Compact Checklist 5”x7” size.

Pocket (3.75”x 3.25”) Compact (5”x 7”) Standard (6”x 9”)

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. Available in three sizes.

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

Flywrite Cockpit Writing Pad

FlyWrite™ is not another “flight planning” layout. It is designed to give you a dedicated place for all the information that flows while in the cockpit of the aircraft. Convenient top-bound writing pad. Each pad contains 50 5” x 8” sheets and can be used with or without standard junior legal vinyl binders. IFR clearances, ATIS, AWOS, frequencies, flight times, hobbs times, tach times, airport information, current weather, forecast, turbulence, flight plans, aircraft location, airport runway, flight path, altitude, climb/descend, temperature, wind, etc. all at one glance.

Mountaintop 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 & extreme environments or beyond what is taught in standard flight courses; and as most pilots discover, sooner or later, flying in mountainous terrain is inevitable.

Checkmate Aviation’s Mountain Flying Checkmate™ covers both the rules and common sense of flying that are critical when in this aspect of flight. Available in 3 sizes. Standard (6.5”x9”) Pocket (5”x 7”) Compact (6.75”x3.25”)
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 distances), as well as weight and balance graphs. 6” x 9”.

E.S.P. CHECKMATE™
E.S.P. CheckMate™ is a 1st for Aviation, and the only product of its kind available. Our new “Emergency Substitute Pilot™” could save the lives of you and your passengers by providing the most basic and simplest of terms and procedures to the NON-PILOT, in the unfortunate event the real pilot becomes incapacitated. E.S.P. CheckMate™ assists the NON-PILOT in controlling the aircraft, reaching help on the radio, and if necessary, landing the aircraft. The graphical format makes it easy and comfortable to follow. It can easily be the difference in the outcome of this most serious type of emergency. For safety and readability, we are publishing only in 7½” x 10” size. P/N 13-01834 $14.95

THRU-VIEW EMERGENCY CHECKLISTS
The Thru-View Emergency Checklist is a headsup, emergency checklist made of high quality, transparent static cling vinyl that adheres to a window or clear sun visor without the use of adhesive for quick, convenient reference.

THE PREFLIGHT CHECKLIST

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

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

www.aircraftspruce.com
**FLIGHT COMPUTERS**

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

P/N 13-00813 $24.95

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

P/N 13-02298 $10.95

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

P/N 13-02299 $23.95

**E6-B HIGH SPEED SLIDE** - A companion product, this slide pick up where the traditional metal flight computer leaves off (ASA-E6B), providing calculations for the high-speed realm of flight (in the range of 220-700 knots or miles per hour). Pilots simply replace their current slide with this one, which then continues to use the circular computer from traditional E6-Bs. The slide also includes compressibility correction chart, ICAO Standard Atmosphere reference table, worldwide time conversion table, speed limits for the United States, and most frequently-used weight & balance formulas. All of the pertinent formulas & information required for high-altitude, high-speed operations. Meets both FAR & JAR (international) requirements. 

P/N 13-02301 $11.95

**E6-B CIRCULAR FLIGHT COMPUTER**

The E6B Circular Flight Computer combines high-quality construction with easy-to-read lettering to deliver the most efficient, accurate, and convenient manual flight computer available. Perform multiple calculations ranging from basic arithmetic and flight planning problems to complex in-flight computations. The E6B Circular Flight Computer is a great tool to use during flight planning, flight training or studying, and may be used during FAA written knowledge exams. Pilots flying faster aircraft at higher altitudes will find this computer useful in gaining insight to the during FAA written knowledge exams. Pilots flying faster aircraft at higher altitudes, use during flight planning, flight training or studying, and may be used during FAA written knowledge exams. 

**PROFLIGHT FIXED AZIMUTH PLOTTER**

The ProFlight Fixed Azimuth Plotter is: • Manufactured & Packaged in the U.S.A. • Made from Premium Clear 8010 Polycarbonate • More Flexible & Warp Resistant than Acrylic or PVC • Printed using Ultra Violet Resistant Ink • Laminated for Lifetime Scratch Protection • Clearly Distinguishable White. 

P/N 13-11167 $8.75

**SQUARE AVIATION PLOTTER**

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

P/N 13-08056 $5.95

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

P/N 13-02302 $14.95

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

P/N 13-02424 $12.80

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

P/N 13-02303 $7.95

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

P/N 13-02306 $10.95

**FIXED PLOTTER** - Constructed of sturdy clear plastic with easy-to-read numbers and scales. It includes WAC, Sectional, and Terminal Area scales, and is checked and approved by the Weights and Measurements Department. Quick scale reference is provided for both statute and nautical miles. 

P/N 13-02304 $7.65

**ASA ROTATING PLOTTER** - Features a nonsping rotating azimuth made from strong plastic for quick course readout. Constructed of sturdy clear plastic with easy-to-read numbers and scales. 

P/N 13-02307 $10.95

**THE PILOT POCKET PEN HOLDER**

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

P/N 13-16371 $16.95

P/N 13-20980 $23.95

**PEN AND TOUCH PAD STYLUS**

A dual-purpose, twist action (black ink) ballpoint pen featuring a soft stylus end for use with touch-screen mobile devices such as iPads, tablets, smartphones, etc. Black barrel with chrome accents. 

P/N 13-12096 $3.95

Prices Subject to Change Without Notice
ASA PILOT SUPPLIES

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

- 7-Ring .................. P/N 13-02316 ........... $10.95

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

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

**7 Ring Binder Kit**
Contains 1 binder, 10 sheet protectors, 5 color side dividers and a sheet of area stickers.

- 7-Ring ................. P/N 13-02322 .......... $19.95

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

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

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

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

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

- NACO Poly Folders pk of 10 .... P/N 13-05820 ........ $3.99
  - 7-Ring Vinyl Pocket pk of 10 .... P/N 13-02318 .......... $5.95
  - 7-Ring Poly Folders pk of 10 .... P/N 13-05821 ........ $4.35

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

- 7-Ring .............. P/N 13-02323 .......... $6.99

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

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

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

- P/N 13-18431 .......... $3.95

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

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

**Certificates Aviation Achievement Awards**
Authentic, full-color certificates are perfect for framing yet sturdy enough to slip into the student’s flight record as a pleasant surprise to be discovered on their next visit to the airport. Mark progress with style, while further motivating students. 9"x12". Sold in packs of 10.

- Private Ground School Certificate ....... P/N 13-02327 ........ $11.50

**Holding Pattern Visualizer**
This useful tool shows a pilot which entry is appropriate given the assigned holding radial, making it a superb learning tool.

- P/N 13-06940 ........... $11.95

**Landing Pattern Computer**
Easily helps determine appropriate headings for each leg when landing or departing the airport - great teaching aid! Color may vary.

- P/N 13-06935 .......... $13.95

**Flight Plan and Clearance Notepad**
Posting pad for obtaining IFR Clearances by pilots. Provides in-flight writing for Aircraft ID, Departure Point, Route Of Flight, Destination, and more. 6" H x 4" W.

- P/N 17-00328 .......... $1.95

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

- P/N 13-01043 .......... $12.55

**ASA Pilot Hat**
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!

- P/N 13-12964 .......... $10.95

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
AERO PRODUCTS
RESEARCH CR COMPUTERS
CR computers are very popular with pleasure
and professional pilots. They solve T/S/D and
wind triangle problems for light aircraft as well
as those which approach Mach 2 speeds.
 Corrections for errors of compressibility and
temperature rise are computed with ease. The
wind solution is displayed graphically using the small back-side disks.
 Each computer comes with a fully illustrated manual.
 CR-3 - 3-3/4” dia. shirt-pocket size (same as Jepp CR-5); vinyl
P/N 13-03499 .............. $22.75
CR-4 - 4-1/4” dia. (same as Jepp CR-2); vinyl. Standard model used by
the military.
P/N 13-03501 .............. $23.75
CR-6 - 6” dia. Used by navigators for maximum readability (Same as
Jepp CR-3); vinyl.
P/N 13-03502 .............. $24.75

AERO PRODUCTS
RESEARCH FLIGHT DESK
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 flight plans. Important VFR and IFR information always visible when open. Foam strips on back keep lap desk from slipping. P/N15-03517 .......... $23.95

AERO PRODUCTS
RESEARCH CR COMPUTERS
Sticky Pad of 5-1/2” x 8-1/2” sheets; VFR
Flight Logs
P/N 13-03526 .............. $3.95
EFL-200 Pad of 5-1/2” x 8-1/2” sheets;IFR
Flight Logs
P/N 13-03527 .............. $3.95

AERO PRODUCTS
RESEARCH TIME/ SPEED/DISTANCE COMPUTER
Time/Speed/Distance computers. “How-to-use” instructions printed right on the text. Unit used in straight, easy-to-read lines; desired scales and windows located at a glance. Perfectly calibrated 2-color dials eliminate parallax errors. Fully illustrated instruction manual with each model. APR-303 3-3/4” dia. T/S/D computer with traffic pattern orientator; anodized alun.
P/N 13-01133 .............. $15.95

ATIS WHEEL PRO
The Atis Wheel™ PRO is a mechanical device
designed to help the airplane pilot in recording all
ATIS information while presenting the data as a
graphic depiction. The Atis Wheel™ PRO is
presented on a 3.5” x 5.5” rectangular durable format
with seven individual 1.5” wheels positioned about
the perimeter of the device along with two, 3”
concentric wheels positioned in the center. The
Atis Wheel™ PRO information follows the sequential
presentation of the ATIS information, providing the pilot the following data: • The ATIS information
phonetic letter identifying this specific ATIS report.
• The ATIS information begins with the current
ATIS identifier - or worse yet, having to recall the prefix
from memory!  The 1-5/8” diameter knob with 1/2” pointer
keeps the lap desk from slipping. P/N 13-04920 .............. $12.95

EZ ATIS REMINDER PILOT TOOL
The EZ ATIS Reminder makes it easy to communicate the
ATIS identifier. No more fumbling through papers for
the ATIS identifier - or worse yet, having to recall the prefix
from memory! The 1-5/8” diameter knob with 1/2” pointer
has a peel and stick adhesive tape on the back that can
be easily mounted on your instrument panel, knee board, or anywhere
you need a quick ATIS recall.
P/N 13-04920 .............. $12.95

ATIS-MINDER
Designed in 2000, the ATIS-MINDER solved
several issues for many pilots and those
involved with seven individual 1.5” wheels positioned about
the perimeter of the device along with two, 3”
concentric wheels positioned in the center. The
ATIS-MINDER™ meets this demand with precision and
dadds efficiency to any cockpit. Excellent teaching
tool for the student pilot preparing for their license
criteria. Can be mounted on the yoke, panel, or kneeboard with the hook
and loop fastener provided in the purchased package.
Left Hand - P/N 13-16442 .............. $34.95
Right Hand - P/N 13-16441 .............. $34.95

EXPERIMENTAL AIRCRAFT
CERTIFICATION KIT
A new amateur-built aircraft certification kit
created by the Experimental Aircraft Association (EAA) gives builders a simplified way to complete the required FAA paperwork for
their new projects. The Amateur-Built Aircraft Certification Kit includes everything you need to register and certify a new experimental amateur-built aircraft in the United States. The 15-page, step-by-step guide walks you through the entire process from getting an N-number to the aircraft inspection, and provides samples to help complete each required form. The kit includes all FAA forms, Experimental sticker (in black), data plate, and a convenient placard decal sheet.
P/N 13-04244 .............. $19.95

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

Prices Subject to Change Without Notice
WWW.AIRCRAFTSPRUCE.COM
ASA CX-3 ELECTRONIC FLIGHT COMPUTER

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)

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 & descend, 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 13-01040 ........................................ $99.95

PN-1 NAVIGATION PLOTTER

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

PN 13-21724 ........................................ $12.00

PJ-1 ROTATING AZIMUTH

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

PN 13-21726 ........................................ $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 provide useful information, both at a glance, in only a few seconds and with only one instrument! The use of the ruler is extremely simple & fast. The pilot can concentrate more on flying, less on calculating, thus fly more relaxed and safer. 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 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 world-wide use.

E6-B2U – 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 are sharp, clear, and easy to read. Like all Jeppesen products, the quality is superior! Plastic ............................................. P/N 3866 ...................... $14.49

E6-B4 – Pocket-size deluxe, all anodized aluminum; high/low wind slide.

PN 13-03960 ........................................ $31.90

E6-B8 – Budget student computer, plastic body, plasticized wind slide.

PN 13-03495 ........................................ $13.95

E6-B8P – Budget student computer, plastic body, plasticized wind slide; includes an 8’Navigation Plotter.

PN 13-03486 ........................................ $16.50

RADIALMATE COMPASS ROSE

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

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

JEPPESSEN STUDENT CSG COMPUTERS

This computer made of composite materials works just like an aluminum computer with all the same functions and features, but at a lower cost. Ideal for new students or as an extra to keep in your desk at home. Printed numbers are sharp, clear, and easy to read. Like all Jeppesen products, the quality is superior!

Plastic ............................................. P/N 13-02296 ...................... $23.95

ASA E6B METAL FLIGHT COMPUTER

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

Standard........................................ P/N 13-00812 ...................... $24.95

Mini................................................ P/N 13-02296 ...................... $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 E6-B color is based on ASA’s popular metal: slide-rule-style flight computer, the ASA-E6B. It’s identical in size to the venerable favorite, made with the same solid aluminum construction and featuring all the functionality pilots have relied on for decades. On the circular side, black is used for the rate arrow and units to be calculated, red is used for weight and volume and blue is used for distance, time and temperature scales. On the wind side, colors are used to identify wind variation: blue identifies west (or right wind correction angle) and red identifies east (or left wind correction angle). Measures 9-3/4” x 5”.

In The Box: Vinyl case, and Instruction booklet.

PN 13-10288 ........................................ $29.95

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

PN 13-05773 ........................................ $39.95

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 rout em and arrival. Records distances to check points, arrival times, and the related radio frequencies needed.

PN 13-12108 ........................................ $5.95
**PLOTS - COMPUTERS**

**VOR TRAINING AID**
Learn and practice the principals of VOR and NDB navigation with ease. 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 computer is printed with speed ring lines representing values of one speed unit. Includes formula boxes added to the plate below the azimuth ring.

E6-B 4 Aluminum........................P/N 13-03960.............................$31.90

**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 scaled for WAC charts, one for sectional charts. “How-to-Use” instructions printed on plotter. Includes illustrated practice problems.

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<td>13” Plotter NP-13 Standard for WAC and Sectional</td>
<td>13-19913</td>
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<td>13” Plotter WSNP-13 WAC and Sectional Charts (Lexan) Lifetime Guarantee</td>
<td>13-03509</td>
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<td>13” Plotter NPR-13 Rotatable Azimuth WAC and Sectional Charts</td>
<td>13-03511</td>
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<td>13” Plotter WSNPR-13 Lifetime Guarantee Rotatable Azimuth/WAC and Sectional Charts (Lexan)</td>
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<td>Universal IFR Plotter UIP-5 (Same as Jeppesen PV-5) NOS Charts Holding Pattern Entry (Vinyl)</td>
<td>13-03514</td>
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<td>Universal IFR Plotter RFC-1 Jepp/NOS Holding Pattern 3-1/2” x 8”</td>
<td>13-03513</td>
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<td>13” Plotter FAA-170 Military WAC and Sectional Charts</td>
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**INTERNATIONAL NAVIGATION PLOTTERS**

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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” parchment scroll lets you customize your specific checklists for review in flight. Designed for U.S. Military Pilots specifications, 5” x 4” x 1-1/2” NSN 1680-00-489-1313

APR FCL-12 Flight Checklist Holder.............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 plotter. 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 computer is printed with speed ring lines representing values of one speed unit. Includes formula boxes added to the plate below the azimuth ring.

E6-B 4 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-Bs. 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..........................$11.95

**RUNWAY SECTOR**
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

**JEPPESEN PV-5 IFR ENROUTE PLOTTER**
Size 3-3/16” x 8-1/2”

P/N 13-21718..........................$9.50

**WWW.AIRCRAFTSPRUCE.COM**
Prices Subject to Change Without Notice
APR PLOTTERS

PROTRACTOR PLOTTER PCP-202 T/S/D - APR has designed the first combination T/S/D pocket computer combined with rotateable plotter cursors. Align the airplane cursor along any appropriate meridian. PVC plastic discs, 3-3/4" dia. Plastic cursor 4-3/4" P/N 13-06681 $13.75

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. Plastic cursor 4-1/4" P/N 13-06689 $16.75

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. 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 “acknowledging” instructions are also shown. Anodized aluminum discs, 3-3/4" dia. Cursor 4-1/4" P/N 13-06687 $16.75

DENSITY ALTITUDE PERFORMANCE COMPUTER DAA-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 13-06688 $16.75

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

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

DNPR-13 - 13" Deluxe Plotter with Rotating 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

NPR-13 13 INCH AZIMUTH COMPASS ROSE NAVIGATION PLOTTER - Four protractor scales and fourteen nautical and statute scales for Sectional, WAC, and Terminal Charts. Instructions are printed on the plotter. Durable plastic. Dimension: 13 5/16"x 4 1/2" P/N 13-03511 $10.90

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 required time. Colorful segments, day / night viewing and use. 4" x 5" HOLDING PATTERN COMPUTER display enters to standard and non-standard holding patterns, maximum indicated holding speeds, and time to inbound leg to. Complete instructions. “Best on the market” designed by Capt. Barry Schiff P/N 11-07722 $12.50

E6-B2 D/S - E6-B2 D with High Speed Wind Slide of 100 to 800 knots 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 computer, 4-7/8" x 11-1/8" P/N 13-06673 $39.95

E6-B8D - Deluxe all plastic 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 $17.75

E6-B9 - Universal Standard 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. 4-7/8" x 9-5/8" P/N 13-03497 $24.75

LOW & HIGH SPEED SLIDES - Low & High Speed Slide for E6-B9 or E6-B2 models. Low wind speeds 10 to 270, high wind speeds 100 to 800 knots 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 11-1/8" 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

DNJP - 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 DRFC-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/ONC 1:1,000,000 VIS/TERM 1:250,000 Scales, PVC plastic. Dimension: 5" x 5" P/N 13-06707 $8.95

E6-B8DP 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 headings of 10,000+ knots and the need to mark dots on the plastic disc. The E6-B8DP calculates all necessary flight planning and enroute navigation requirements. Color-coded sawtooth scales are user-friendly and allow for quick, accurate reading. P/N 13-06676 $19.75
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.

- 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.

- 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 coursesline. Place the compass rose over your departure point and rotate the straight edge towards destination. Presto... an instant readout of your course! Reads distance in statute miles or nautical miles for both sectional and WAC charts. Made of bullet proof Lexan. Won't crack, break, or warp in extreme heat or cold. ........................................ P/N 13-03473 ...... $18.95

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

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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<thead>
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<th>Description</th>
<th>Part No.</th>
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<tr>
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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
PUT-IT SUCTION CLIP
This clip is strong enough to hold an approach plate, chart, or checklist. Attaches by a suction cup to the instrument panel, yoke or any other nonporous surface. ......................... P/N 8197 ..................... $5.85

NO CLUTTER CLIPS
No Clutter Clips * Holds checklists, approach plates, charts, etc. * Stick on most slick surfaces * UV Resistant
1 Small clip per package P/N 13-06636 .......... $4.80
2 Small clips per package P/N 13-06408 .......... $8.95
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 8265 .................. $10.90

YOKE CHART CLIP
When you want the chart or approach plate right in front of you - this clip will hold it on the yoke. Adjustable band wraps around the yoke and holds the clip firmly. Fits all general aviation aircraft controls. Non-reflecting 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 .................. $18.99

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. Ensures 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 .................. $21.95
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.
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 POUCH
End cockpit clutter • Made or durable Cordura • Stores flashlight, fuel tester, flight guides, approach plates, charts, plotter, E6-B, sunglasses and more. * Available in black, AF blue, red, gray & olive drab
Black P/N 13-31870 .................. $18.85
Blue P/N 13-03005 .................. $18.95
Red P/N 13-31870 .................. $18.85

23 POCKET BIGMOUTH BAG
17 Multi-use pockets inside and 6 outside organize tools and accessories. Opens wide for easy access to bag’s contents. Padded reinforced web carrying handles. 12” L x 8 1/2” W x 8” H P/N 12-00339 .................. $19.85

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

14 POCKET TRAY TOTE BAG
This bag features 2 pockets inside, 12 pockets outside, with a 13.5” x 6” multi-compartment plastic tray slides securely into bottom of bag. Opens wide for easy access. 16” L x 9” W x 12” H P/N 12-00164 .................. $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: 9” x 5” x 16” Bag P/N 13-02500 .................. $64.75

UNIVERSAL BEVERAGE HOLDER
This Universal Beverage Holder made of billet aluminum installs easily in any thickness dash or instrument panel. Available in 2 styles, with square or oval face-polished surfaces, its compact design permits vast installation possibilities.
Oval Face P/N 13-03792 .................. $139.00

AIRMAN CERTIFICATION HOLDER WITH FAA SYMBOL
Airman Certificate holder with imprinted FAA symbol P/N 13-19713 .................. $23.95

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 or the yoke tube of your clipboard. An attractive leather wallet 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 13-19009 ........... $29.95

LICENSE HOLDERS
Black leatherette with clear plastic window to display ownership certificates. P/N 13-07990 only includes eyelet holes for mounting and metal plates to keep corners from fraying.
4-7/8” X 6-7/8” P/N 13-07990 .................. $12.95
7-1/2” X 8” P/N 13-17904 .................. $14.50
7-1/2” X 5-5/8” P/N 13-17905 .................. $14.75
14” X 5-5/8” P/N 13-17906 .................. $17.75

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

BLACK
• Available in black, AF blue, red, gray & olive drab

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943
## 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. P/N 13-12655 $54.75

The performance package includes: information cards, clear document protectors, removable document protectors, and releasable cable ties (holds document protectors securely to kneeboard). P/N 13-12656 $72.75

### TRIFOLD KNEEBOARD
The standard features include: right and left light pockets that double as pen/pencil pockets, 1-1/2" wide adjustable plastic strap, 4 clear plastic information pocket, right & left document loops, side release buckle, durable wire clip, and padded backing. P/N 13-12660 $54.75

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 13-12661 $69.95

### 9-G PLUS KNEEBOARD
This kneeboard is originally designed for high performance fighter and attack aircraft. The standard features include: right and left light pockets that double as pen/pencil pockets, 1-1/2" wide adjustable plastic strap, 3 clear plastic information pocket, right and left removable document loops, side release buckle, easy access pocket, durable wire clip, and padded backing. P/N 13-12650 $51.75

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

### 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. P/N 13-12665 $48.50

The performance package includes: information cards, clear document protectors, removable document protectors, and releasable cable ties (holds document protectors securely to kneeboard). P/N 13-12666 $69.95

### JEPPESEN 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. Low altitude planning charts. Size: 10" x 20" open. Kneeboard/Clipboard P/N 13-06956 $39.95

### 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 independent of the kneeboard. You are really getting two products in one. Kneeboard/Clipboard P/N 13-06955 $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 unlighted version of MXU-163/C. Anodized aluminum. Meets all military specs. MK-2A/C P/N 13-03521 $63.75

9" x 5-3/8" Contoured base, non-slip kneeboard. 3" positive extension 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, alternate flight planning and distance-from-cloud requirements. IFR required reports, plus much more. Anodized aluminum. Includes flight logs. 0-100 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. 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 fingertips. The VFR side, with a small bear clip, holds flight logs and approach plates while the larger bear clip on the IFR side opens to 1" and is designed to hold aeronautical charts and radio facility approach books. Non-slip foam on the underside of the board helps to hold everything securely in place. APR’s PILOT'S FLIGHT DESK is the best available! The PFD-3 has 3 clips along with all the features PFD-1 provides additional uses such as clipping long sections of flight charts, approach charts and log sheets (VFR-100 / IFR-200). Includes 2 heavy-duty paper clamps, pencil holder. Dimensions: open size: 16" x 9", folds to: 8" x 9". Anodized Aluminum, .050" thick P/N 13-11734 $27.85

### 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/paper 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. Pencil/pen-protector elbows secure material, yet papers won’t rip when pulled out. VFR Kneeboards P/N 13-06925 $13.95

IFR Kneeboards P/N 13-06930 $13.95

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

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Prices Subject to Change Without Notice
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 which 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.

TRI-FOLD KNEEBOARD

This elongated 3-panel kneeboard accommodates aeronautical charts without additional folding. The center section of the 3-panel cordura-like jacket holds the included brushed aluminum kneeboard in place while the two side pockets offer storage for charts, notes, a flight computer, pencil, pen and more. Quick VFR reference information is fooled into the brushed aluminum kneeboard offering resources for weather and flight planning, VFR ceilings, visibility, cloud clearance, cruising altitudes, pilot weather reports, light gun signals, a crosswind component graph, and more. A wide, sturdy clip on the kneeboard holds papers in place. The left side panel of the jacket has two pockets for flight plans and notes, as well as elastic straps for holding a flight computer or other flight accessory. The right hand panel has a see-through pocket for easy chart viewing and storage. The hook-and-loop fasteners on the elastic leg band allow the kneeboard to adjust to a variety of leg sizes. Closed Dimensions: 10-1/4" Length x 6-1/2" Width. Open Dimensions: 11.5" Length x 21" Width.

FLIGHT OUTFITTERS IPAD KNEEBOARDS

Flight Outfitters now offers an enhanced version of its popular kneeboards, designed to hold any iPad, up to the 10.5" iPad Pro. Flight Outfitters Kneeboard maintains the same features original kneeboard but with added versatility to accommodate the range of iPads in use. 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. Updated design uses expandable loops to securely hold the corner of the iPad to the bracket. This allows you to keep your iPad in your case instead of removing it for every flight.

Note: Clip and strap only. Kneeboard or tablet not included.

MYCLIP KNEEBOARD 2 STRAP

This design allows the plastic clips to be adjusted to accommodate many different size tablets and phaplets. ..........P/N 13-16535 $23.95

MYCLIP MY BIG KNEEBOARD STRAP

The MyBigKneeboard is a tablet and iPhone kneeboard for use with almost any tablet or smartphone with dimensions from 3 inches (7.5cm) to 12 inches (30cm) and a thickness (including case) up to .95 inches. This is the product to choose if you want to keep your tablet in your everyday carry when flying or if you are using an armored case such as the Otterbox® or LifeProof® case. This design allows the plastic clips to be adjusted to accomodate many different size tablet and phaplets. 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

EFB CADDY

In a word it is all about "SAFETY"! With the advent of Electronic Flight Bag (EFB) software, Tablet technology and ADS-B receivers, today’s GA pilot has access to reasonably priced, portable technology that greatly improves the safety conditions, under which they can now operate. Enhanced situational awareness and reduced pilot workload, both preflight and in-flight, are but two of the several benefits. EFB CADDY was designed to further improve the 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-2 KNEEBOARD

Kneeboard is made from highly durable and water resistant nylon. Removable strap for the checklist on the left side and two pockets on the right side - one pocket for an E6B and the other for a flashlight. 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

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 kneeboard to keep pages from flying around. Fastened to the leg using an adjustable elastic strap complete with buckle and quick release clip. ..........P/N 13-19806 $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 kneeboard to keep pages from 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

AVIATE PILOT KNEEBOARD

- Removable Clipboard – black non-glaring clip with rubber corners secure your contents on the lightweight but removable durable plastic clipboard which allows you to write on your knee
- Fully Adjustable – easy to use elastic strap adjustable to any size leg and hold strong with Velcro
- Convenient Design – holds pens, pencils, tire pressure gauge and a pocket to hold ear plugs and other small items
- Includes 7 Rings – accommodates your approach plates, checklists, manuals or any other 7 hole pilot documents
- Kneeboard Details – made of rugged canvas, 11.5" wide and flexes around the leg, 8.5" long, clipboard is 5.2" x 8.3" P/N 13-21477 $37.95

FOR MORE INFORMATION CONTACT:

FLIGHT OUTFITTERS

11300 Rockville Pike

Rockville, MD 20852

Phone: 301.881.1311
Fax: 301.881.1312

http://www.aviatepilot.com
KNEEBOARDS

FLIGHT DESK TRI-FOLD KNEEBOARD
Flight Desk Kneeboard greatly improves cockpit organization of charts & accessories. Unlike some other kneeboards with limited utility, will hold section- al 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 instrument manuals and charts. This bag has a flap with velcro closure, two handle straps for added strength, and outside pockets for pens and pencil supplies.
Small Dimensions: 9.5”H x 5”D x 6.5” W........P/N 13-19813 . $12.95
Large Dimensions: 9.5”H x 5”D x 7”W..............P/N 13-19814 $14.95

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

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 9” 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

ULTIMATE KNEEBOARD IPAD HOLDERS
The Ultimate Kneeboard iPad® holder has a seven ring design so it will fit both models of the Ultimate Kneeboard®. It is also designed to fit all models of the iPad® and iPad® mini. The Ultimate Kneeboard iPad® holder is made from the same durable materials as the Ultimate Kneeboard®. It is held in place at each corner with heavy-duty elastic and offers easy access to the Home button and connector port. Just like the Ultimate Kneeboard®, the iPad® holder comes with a money back guarantee and is made in the USA by folks from Boise, Idaho.
Standard iPad.........................P/N 13-16348 $36.95
Mini iPad..............................P/N 13-16345 $37.50
IPad Air.................................P/N 13-16347 $36.90
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 13-06910 $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 CFI’s 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

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

See Website for custom embroidery
## 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 iPad 2, 3, and 4 & allows for power plug or GPS booster.

P/N 11-10399 $54.75

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

P/N 13-12902 $44.95

**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 Tilt Pads for glare reduction and stability.

P/N 13-15458 $45.75

**THE APPSTRAP 5**
Fits most tablets (8" - 10") when used with large protective case (Not Included)

Devices: iPad-1, iPad mini, Fire 8.9, Galaxy 10.x, Nexus. Cases: Otterbox Defender, Gumdrop Droptech, Griffin Survivor. Larger clip accommodates most heavy-duty cases. Fits cases 3/4" thick or less

P/N 13-14753 $47.85

**G-FORCE MOUNT FOR APPLE IPAD**
The G-Force GF260 iPad Mount is everything you need to re-take control of your cockpit and restore confidence to your passengers. Your passengers? You bet! What are they thinking while you’re fiddling with that thing in your lap. The G-Force GF260 iPad Mount comes complete with:

- a custom-designed cradle, tailored to your iPad-1 or iPad-2, 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 in or around your cockpit. View flight plans, maps, weather and more. Non damaging and 100% removable. Mounts to glass, plastics, metal 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

**POWER IBOX FOR IPAD2**
Power iBox fits like a second skin for the iPad2 all while providing protection and power without adding bulk. Equipped with an 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

**IPAD DOUBLE SUCTION CUP MOUNT**
The Fat Gecko iPad Mount uses industrial grade locking suction to secure your iPad to any smooth surface in or around your cockpit. View flight plans, maps, weather and more. Non damaging and 100% removable. Mounts to glass, plastics, metal 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

**ASA IPAD AIR KNEEBOARD**
Made from eco-friendly leather and features a wide hook and loop leg 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 lay flat. Dimensions: W 7" (closed) x H 10" x D 1"; W 14-1/2" (opened)

P/N 13-18052 $54.80

**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

**HAND-E-HOLDER™**
The Hand-e-holder™ allows you to hold and view your iPad™/iPods, etc. even during heavy use. Made from lightweight 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 Rectangle Stand
  P/N 13-11548 $98.50
- Hand-E-Holder Adapter Plate
  P/N 13-11551 $45.99
- Hand-E-Holder Leg Strap Kit
  P/N 13-11547 $49.75
- Hand-E-Holder Rectangle Stand
  P/N 13-11551 $45.99

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM 947
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 reposition! 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 13-12953 ...........$29.95

APPSTRAP FOR THE IPAD MINI 4

The AS-mini 4 maintains AppStrap’s commitment to excellence and pilot-approved design. The form-fitting gel-case adds protection to the damageable device and mates to the elastic leg strap using a unique and secure Velcro mating system. This allows the iPad to be repositioned with ease, stowed during flight, or adjusted to portrait/landscape mode. The unique modular tilt pad allows the device to be positioned at the optimum viewing angle and helps reduce annoying glare.

As with all of AppStrap’s product offerings, the AS-mini 4 employs most-needed features for routine cockpit use. These tablet kneeboard devices maintain a low-profile design without sacrificing on quality or durability.

P/N 13-18750 ............$36.95

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 7.8" x 1". .............P/N 13-12391 ............$34.75

GENESIS IPAD CLIPBOARD ADD-ON

A sturdy 3001 grade aluminum clipboard is riveted to a soft velvet backing to protect your iPad touch screen. Pen holder at the top. This is an add-on accessory for the genesis and genesis 2 iPad cases. Not a standalone kneeboard.

P/N 13-14734 ...........$24.75

W-4 IPAD MINI KNEEBOARD FOR USE WITHOUT CASE

Kneeboard is made from highly durable and water resistant nylon. Has a pocket for your E6B, 5 pencils holders, a pouch for your CEPs/earplugs, a removable grommet for your checklist, and a clear plastic strap that goes across your paper to keep them from flying away. One removable flip-up page with two pockets and a clipboard for PPC and notes. The middle of the kneeboard has 4 elastic bands 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 FOR USE WITH CASE

Kneeboard is made from highly durable and water resistant nylon. Has a pocket for your E6B, 5 pencils holders, a pouch for your CEPs/earplugs, a removable grommet for your checklist, and a clear plastic strap that goes across your paper to keep them from flying away. One removable flip-up page with two pockets and a clipboard for PPC and notes. The middle of the kneeboard has 4 elastic bands 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

AIRGIZMOS IPAD 1 / 2 / 3 KNEEBOARD

The AirGizmo iPad Kneeboard allows accessing charts and apps on the iPad or iPad2 while flying easier and safer than ever. Molded plastic and a wide velcro strap allow for a secure, comfortable fit. Fold over tablet holder drops out of the way when not in use. Ability to adjust the angle of the iPad for best viewing angle and the ability to cut down glare. Designed to work with both the iPad and the iPad2. Width: 7.93 in.. Height: 9.79 in.. Depth: 3.75 in. Weight: 13.1 ounces.

P/N -13-11218 ...........$78.85

CLASSIC TORCHGRIP®

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

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

ASA IPAD PORTFOLIO KNEEBOARD

The iPad Portfolio Kneeboard is the ideal stylish multitasking kneeboard, binder, and versatile cover. It is functional and durable and protects your iPad in flight and on the ground making it your favorite cockpit companion. Fits the iPad, iPad 2, and New iPad (iPad 3). The inside sleeve holds your iPad securely on the right side with full access to iPad controls and 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 in-flight use and is easily removable for everyday use. The cover folds into a flap to serve as a vertical or horizontal desktop stand providing easy landscape viewing and full keyboard access. Beautiful black leatherette with embossed wings. Height: 9-11/16", Width (closed) 7-15/16", Width (open) 15-15/16"............................P/N 13-11337 ............$49.95

Replacement Strap...............................P/N 13-19794 ............$4.35

ASA IPAD KNEEBOARD WITH COVER

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

P/N 13-11701 ..............$24.95

ASA IPAD AIR ROTATING KNEEBOARD

Designed by pilots for pilots, our high-quality iPad Rotating Kneeboard is covered with soft, leather-like material and features a wide hook-and-loop leg strap to hold the kneeboard in place during flight. Inside, the rotating iPad frame holds the device securely and allows a 360 degree rotation of the iPad. An easel is built into the kneeboard for adjustable tilted viewing, in and out of the cockpit. Fits iPad 9.7” models. Measures: W 7" (closed) x H 10" x D 1"; W 14-3/4" (opened).

P/N 13-21889 ..................$41.70
IPAD ACCESSORIES – MGF PRODUCTS

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

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

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

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

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

MGF UNIVERSAL FLEX CLIP KIT
This is the first and only mount that you can secure anywhere you wish with four screws of an AMP's 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 ............$308.00

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

Smart Identification Output
Dual Smart USB output port connects devices to maximize both compatibility and charging speed (up to 2.4 amps), but also charging two devices simultaneously.

Each port intelligently identifies your device to speak its unique charging language. This charging mode will be up to two devices at once, including 5V 2A input port, it helps you to recharge the power bank quickly too.

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

In The Box:
• 1 x MGF 12000mAh Power Bank • 1 x 2.0A USB Cable (iPhone cable not included) • 1 x User Manual
P/N 13-20661 ............$59.99

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

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**Features**
- Tablet secured, view-able, and operable with one hand during critical phases of flight as required by the FAA • Secure your iPad/Tablet on either leg for use with either hand • Rotate iPad/Tablet between landscape and portrait positions while in flight • Convert your case into a desktop stand for use on desk, table or lap • VFR/IFR clipboard adheres magnetically for secure note taking • 360 Rotation: Rotate iPad between desk, table or lap • VFR/IFR clipboard adheres magnetically for secure note taking • 360 Rotation: Rotate iPad between desk, table or lap • VFR/IFR clipboard adheres magnetically for secure note taking • 360 Rotation: Rotate iPad between desk, table or lap

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

_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. The 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 13-18845 ...........$124.00_

**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_

**MFG 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 11-13" tablets. Now you can bring any 11-13" iPad/Tablet with you into the cockpit of any airplane, train, car or truck where it can be held secure on your knee and lap. High quality, rich leather wraps the outside while soft and protective micro-fiber material lines the inside. The iPad/Tablet is held by four adjustable clips that are attached to a rotating cradle. All of the ports and controls remain accessible so the iPad/Tablet can be charged, synced and controlled when it is in its case. 

**Features**
- Tablet secured, view-able, and operable with one hand during critical phases of flight as required by the FAA • Secure your iPad/Tablet on either leg for use with either hand • Rotate iPad/Tablet between landscape and portrait positions while in flight • Convert your case into a desktop stand for use on desk, table or lap • VFR/IFR clipboard adheres magnetically for secure note taking • 360 Rotation: Rotate iPad between desk, table or lap • VFR/IFR clipboard adheres magnetically for secure note taking • 360 Rotation: Rotate iPad between desk, table or lap • VFR/IFR clipboard adheres magnetically for secure note taking • 360 Rotation: Rotate iPad between desk, table or lap

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

_P/N 13-19535 ...........$154.00_

**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. 

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

_P/N 13-19537 ...........$174.00_

**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 portably without the hassle of tangling wires. Allows you to get work done from anywhere. Only folding keyboard that has all keys including numbers. Performs any task necessary.

_P/N 13-19561 ...........$49.99_
MFG PRODUCTS

MFG FLIGHT BAG PLC LITE
MFG 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 MFG 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 any other electronic flight bag device.

P/N 13-19545 ...............$114.00

MFG 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 ...............$179.00

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

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

P/N 13-12407 ...............$14.99

MFG BACKPACK STRAP
MFG 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 be much lighter than actual weight. Padding and grip prevent straps from sliding off of shoulders. Clips onto bag with three easy hooks. Rotating hook heads make sure you never get tangled straps ever again! Fully adjustable for all sizes.

P/N 13-19546 ...............$30.00

MFG IPAD 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 13-11594 ...............$229.00

MFG IPAD AIR 1-2 / PRO 9.7 SPORT CASE
(KNEEBOARD / MOUNTABLE)
The iPad Kneeboard Sport™ is the perfect aviation kneeboard, mount and everyday case for the iPad Air or Pro 9.7. It is designed for the pilot looking to secure their iPad on either leg, who needs the minimal case, but still wants a very secure fit, 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 ...............$124.00

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

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

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

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

MFG 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 used at the same time. NOTE: For 12-35 volt DC systems. ...............P/N 13-15538 ...............$39.99

MFG WATER BOTTLE
The MFG 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

MFG 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 portable including the aerà® 660, aerà® 796, aerà® 795, aerà® 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 MFG Sport Mount (Sold Separately). ...............P/N 13-19528 ...............$49.00

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

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MGF SPORT™ MOUNT FLEX CLIP
- Fits Monorails sized, 5/16” - 1/2”. The infinitely articulating and adjustable arm attaches to the Universal Cradle to hold any iPad or Tablet, or to the iPad Sport Case for a specific iPad fit. This feature makes this mount future proof. Once attached, the iPad can be viewed in either portrait or landscape modes simply by rotating the device, nothing has to be loosened or lightened to make this happen. NOTE: You must have a Device Holder to use this mount. P/N 13-19516 $164.00

MGF SPORT™ MOUNT FLEX Suction PRO
This one mount can operate as a compact suction cup, allowing a close position to the glass of 3.25 inches. It can also operate as a standard suction cup 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 $194.00

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

MGF SPORT™ MOUNT FLEX Double SUCTION
This one mount can operate as a compact suction cup, allowing a close position to the glass of 3.25 inches. It can also operate as a standard suction cup 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 $194.00

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

MGF SPORT™ MOUNT Flex GLARE SHIELD
The Sport Mount - Flex Glare Shield is for pilots who want to mount their iPad or other device off of the glare shield of their airplane or similar shelf-like surface. Can be used with any case, or no case at all. Mount comes with a Sport - Universal Cradle for easy mounting. NOTE: You must have a Device Holder to use this mount. P/N 13-19514 $164.00

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

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

MGF SPORT™ PHONE CRADLE
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 smartphone as small as the iPhone 5 and as big as the iPhone 6 Plus (Minimum width = 2 3/8” | Maximum width = 3 1/2”). P/N 13-19524 $54.00

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. Comes with many tablets from 10 inches to 13 inches. P/N 13-19521 $154.00

MGF SPORT™ MOUNT FLEX STUD
The iPad Mount - Flex Stud is the perfect mounting solution for pilots that would like to install an iPad directly into their panel, such as in many experimental aircraft. The Stud secures easily to any hole in the panel for easy mounting. NOTE: You must have a Device Holder to use this mount. P/N 13-19516 $124.00

MGF SPORT™ MOUNT FLEX Universal Cradle
The Sport™ Universal Cradle is designed to work with almost any tablet in virtually any case, or no case at all. As a mountable, it connects and easily rotates when paired with MGF Sport Mounts. Compatible with many tablets from 10 inches to 13 inches. P/N 13-19521 $154.00

MGF SPORT™ MOUNT FLEX Universal Stud
The iPad Mount - Universal Stud is the perfect mounting solution for pilots that would like to install an iPad directly into their panel, such as in many experimental aircraft. The Stud secures easily to any hole in the panel for easy mounting. NOTE: You must have a Device Holder to use this mount. P/N 13-19516 $124.00

MGF SPORT™ MOUNT FLEX 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. Comes with many tablets from 10 inches to 13 inches. P/N 13-19521 $154.00

MGF SPORT™ FLEX SUCTION CUP MOUNT FOR IPAD / ANDROID
The Sport Mount - Flex Suction 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 2.0. P/N 13-16389 $144.00

MGF SPORT™ MOUNT FLEX SUCTION CUP MOUNT FOR IPAD
The Sport Mount - Flex Suction is for pilots who want to mount their iPad Sport, iPad Kneeboard Sport™ or Nexus 7 Sport case off a glass windshield, side window or other smooth surface. This 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 $144.00

MGF SPORT™ FLEX IPAD Cradle
As a mountable, it connects and easily rotates when paired with MGF Sport Mounts. Compatible with many 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 install and remove your tablet. No matter how you use it, the Sport Cradle meets the demands of pilots operating in extreme motion. P/N 13-16447 $144.00

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

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

MGF Sport™ Mount Amps Swivel
The Sport™ Mount Amps Swivel is for pilots who want to mount any size iPad or iPhone on almost any 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 the iPad/Tablet position. The adapter can tilt up to 15 degrees. The iPad/Tablet can rotate between landscape and portrait mode while attached to the mount. All together, this system gives you the ultimate flexibility while keeping spaced used to a minimum. NOTE: You must have a Device Holder to use this mount. P/N 13-19534 $124.00

MGF SPORT™ PHONE MOUNT
The Sport™ Mount - Phone Cradle is the perfect mounting solution for pilots that would like to install an iPad directly into their panel, such as in many experimental aircraft. The Stud secures easily to any hole in the panel for easy mounting. NOTE: You must have a Device Holder to use this mount. P/N 13-19516 $124.00

MGF SPORT™ MOUNT FLEX STUD
The iPad Mount - Flex Stud is the perfect mounting solution for pilots that would like to install an iPad directly into their panel, such as in many experimental aircraft. The Stud secures easily to any hole in the panel for easy mounting. NOTE: You must have a Device Holder to use this mount. P/N 13-19516 $124.00

MGF SPORT™ MOUNT FLEX STUD
The iPad Mount - Flex Stud is the perfect mounting solution for pilots that would like to install an iPad directly into their panel, such as in many experimental aircraft. The Stud secures easily to any hole in the panel for easy mounting. NOTE: You must have a Device Holder to use this mount. P/N 13-19516 $124.00
GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPAD 6+ / 7+

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

P/N 13-18917 ..............................$99.00

GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPAD MINI

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

P/N 13-18919 ..................................$145.75

GUARDIAN INSTRUMENT PANEL FLUSH MOUNT FOR IPAD AIR 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!

P/N 13-18922 ..................................$279.95

X-NAUT KNEEBOARD KIT

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

P/N 13-19504 .............................................$38.95

GUARDIAN IPAD/IPHONE IFDR PANEL MOUNTS

The IFDR Panel Mount Packages are a flush mounting system to easily dock and seamlessly integrate your existing device into your aircraft instrument panel, giving it a clean, professional appearance in an easy to view position! Once installed, the IFDR mount allows your device to be docked in seconds, fully powered and ready for use, and able to be removed in seconds when done! This package gives you the mount along with a panel mounted single 2.7 amp USB-A port that also features a hard-wired 2.7 amp connection from the rear to power the device mount! This way you can provide power to an external component like a phone or GPS/ADS-B receiver while keeping your device is charged! Choose from a Single USB Round Faceplate or Single USB Square Faceplate. Can be mounted either horizontally or vertically.

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GUARDIAN IPAD SMARTPANEL MOUNTS

The SmartPanel Mount for Apple iPads is a flush mounting system to easily dock and seamlessly integrate your existing iPad into your aircraft instrument panel -- giving it a clean, professional appearance in an easy to view position! Once installed, the smartPanel mount allows your Apple iPad to be docked in seconds, fully connected to power and audio with built-in cable ports. Each mount has a built-in Fan Blower (14 or 20V).

For iPad Pro 10.5 Inch Smart Panel Mount and Power Supply Package 12V
P/N 13-20272 $489.95
P/N 13-20600 $489.95
P/N 13-21184 $449.00
P/N 13-21191 $499.00
P/N 13-21192 $499.00
P/N 13-20269 $379.95
P/N 13-20597 $369.95
P/N 13-20268 $339.95
P/N 13-20596 $339.95

GUARDIAN LIGHTING CABLES

- Apple MFI Certified Lighting Cable for IFDR Panel Mounts 4-wire 3 Feet
  P/N 13-18963 $26.50

- Apple MFI Certified Lightning Cable 3
  P/N 13-18964 $26.50

- Apple MFI Certified Lightning Cable 10 USB Term
  P/N 13-18964 $26.50

- 3.5mm Audio Cable 3 Male Jack
  P/N 13-18968 $28.50

- Braided Leather Apple Lightning USB Charging / Sync Cable for iPad / iPhone - MFI Certified
  P/N 11-14111 $22.75

X-NAUT ACTIVE COOLING MOUNT FOR IPAD AIR

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

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

X-NAUT ACTIVE COOLING MOUNT FOR IPAD MINI

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

P/N 13-21603 ..............................................$179.95

X-NAUT ACTIVE COOLING MOUNT FOR IPAD PRO - 10.5

The Active Cooling Mount was created for iPad™ users in extreme conditions. Works with works with iPad Pro 10.5", iPad™, AA batteries and micro USB cord are not included.

P/N 13-21626 ..............................................$199.95

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Prices Subject to Change Without Notice

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FlyBoys Gear for Pilots

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. Favored by F-15E, B-1, B-2, and C-130 aircrew. It's also popular in the USAF/USN pilot training environment. Outside dimensions are 9" x 11" x 1" empty, and fully loaded it will expand to 6 1/2" wide.

FLYBOYS Helmet Bag

420 Denier Cordura Nylon with 1/2" cloth poly-fill to cushion your helmet. Heavy duty nylon zipper - resists snags. Two interior pockets WITH VELCRO CLOSURE that fit your DTC, VTR and Jeppesen charts. Size is 5 1/2" x 8 1/2" - really makes a difference. Sheet Size: 8 1/2" x 5 1/2"

FLYBOYS Hot Weather Vest

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 extreme temperatures. Pages are top loading and are great for protecting your local approaches or condensed aircraft checklist. No covers included.

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 fits tight in your mission data cards fit, your target photos can get more detail in them, and your attack cards slide tight in without making a trip to the copier to shrink or the paper cutter to trim! These are the same construction as the regular, just bigger. Great in extreme temperatures and long lasting. Spacing on the holes matches up with the FlyBoys KneeBoard with Eyelets and Jeppesen charts. Size is 5 1/2" x 8 1/2" - really makes a difference.

FlyBoys Hard Plastic Cover Set

The new Cover Set for the FB2203 pages are great. They are perfect for protection of the pages as well as providing structure for these tall pages. Without these covers, they tend to sag due to their height. Buy as many pages as you need, as many cover sets as you need. Sheet Size: 5" x 11"

FlyBoys CheckList RIngS

Durable. Unbreakable. Multi-Purpose. Safe. Opaque nylon ring to hold your checklists and in-flight guides. Or use them for outdoor use where metal rings would rust or wear out. Patented ball-lock design to prevent FOD out on the flight line. The nylon ring is very low resistance as well. Once they are closed, they stay closed. When closed, they are a 1.5" diameter ring. Opened, they stretch to 5". For most applications 4 rings is plenty for keeping your checklists or in-flight guides secure. 10 per pack.

FlyBoys Pilot Logbook

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

FlyBoys Remove Before Flight Key Chain

This nylon strap is strapped with the REMOVE BEFORE FLIGHT rubber patch is an instant reminder of the real warning flags that hang off of airplanes on the flight line. They’re supposed to be visible and easy to find during the walk-around before each flight. Well, now you have to “walk around” your house or fish through your gym bag trying to find it?

FlyBoys MapStrap Thigh Strap

Adjustable to fit just about anyone and features a see-through strap with a healthy portion of hook-and-loop to keep paperwork secure. The leading and trailing edges of the lower strap feature no-slip PVC material to help keep the strap secure on your leg.
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.

Recommended by AOPA/ Flight Training.
for extended periods of time without discomfort, thanks to the soft rubber view without any view of the horizon. Old Foggies™ blend of precision fogging and custom powered corrective lenses allows for the precise amount of the instrument panel charts. Old Foggies™

ASA IFR TRI-FOLD KNEEBOARD
Strong aluminum tooling clipboard silkscreened with important IFR information fits into black 3-panel jacket. Has room for charts, books, flight computers, etc. .................. P/N 13-05840 .................. $33.75

ASA VFR TRI-FOLD KNEEBOARD
For the pilot who needs to carry more, this carry-all kneebboard provides maximum storage space, encourages cockpit organization, and serves as the pilot’s desk during flight. The left panel has ample room for small books, papers and items that don’t fit elsewhere. The center panel holds the kneebboard under clear plastic with a pen/pencil holder and buttonholes on either side — allowing a pilot to fold back one or both panels with the legband. The right-hand panel contains a clear pocket for easy map viewing, and the elastic legband’s Velcro® closures fit any leg size comfortably. Black nylon with embroidered silver wings logo.
Kneeboard is 6-1/2” wide x 9-1/2” high........... P/N 13-02712 .................. $33.95

BLOCKALLS TRAINING GLASSES
Designed by pilots for pilots. Blockalls™ resolve problems with existing viewing limiting devices. Weighing in at just 1 oz., 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.

Description Part Number Price
Black 13-06240 $20.95
Silver 13-06241 $20.95
CFL Right Seat 13-20135 $22.95
Helicopter 13-18399 $20.95

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

Description Part No. Price
Clear Lens Fog 1.0 13-05004 $29.95
Clear Lens Fog 1.5 13-05005 $29.95
Clear Lens Fog 2.0 13-05006 $29.95
Clear Lens Fog 2.5 13-05007 $29.95
Clear Lens Fog 3.0 13-05008 $29.95
Tint Lens Light Mirrored Tint Fog 1.5 13-05009 $29.95
Tint Lens Light Mirrored Tint Fog 2.0 13-05010 $29.95
Tint Lens Light Mirrored Tint Fog 2.5 13-05011 $29.95
Tint Lens Tinted Fog 1.5 13-05012 $32.95
Tint Lens Tinted Fog 2.0 13-05013 $32.95
Tint Lens Tinted Fog 2.5 13-05014 $32.95

JIFFYHOOD
A lightweight plastic hood that does the job inexpensively. Jiffyhood stows rolled up in a flight case, or even in your pocket. Has an adjustable elastic headband for comfort. Easy to use. ......... P/N 13-00457 .................. $10.95

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 cut-out plastic face pad for comfort. Adjustable elastic headband.
P/N 3362 .................. $54.75

JEPP SHADES
Replaces bulky, hard-to-use instrument training hoods. The improved design allows better student/instructor interaction. The Cockpit proven design works conveniently under headsets and the universal adjusting strap reduces pressure on the ears and temple. The Velcro® strap fits comfortably and flip-up lens allows convenient IFR/IFR flight transition. The high quality polycarbonate lens is impact resistant. .................. P/N 13-404311 .................. $24.50

FOGGLERS
A creative solution to the problems caused by wearing a large hood on your head. Foggles fit and look like the glasses, but the opaque frosting on the top and sides let you see only the instrument panel. Your out the window view is always foggy. Wear them with headsets and microphone with no fear of discomfort. They come with protective carrying case and weigh only two ounces.
Clear ................. P/N 13-06500 $18.95
Yellow .................... P/N 17-00039 $22.95

SUPER HOOD
Ideal with eye glasses or headsets it slides in under the headrest without relinquishing control of the aircraft and it can be instantly removed at any time for a safe approach or landing. Blocks outside reference but provides a full panel view to reduce vertigo. Light weight (3 oz.) and comfortable fit
P/N 13-30200 .................. $21.75

IFR TRAINING GLASSES
Polycarbonate Lenses (UV Protected). Adjustable frames. High brow area to prevent “peeking”. Opaque frosting to simulate actual IFR conditions. Protective carrying bag included.
P/N 13-12050 .................. $17.95

VIBAN IFR TRAINING HOOD
Weights only 2 oz., making it easy to put on and take off during flight. Provides a perfect view of the instrument panel while providing complete occlusion forward and to the side. Even more, VIBAN folds compactly to fit in its own durable case and is easily stored in your flight bag.
Without Nosepiece ................. P/N 13-02022 .................. $38.95
With Nosepiece .................. P/N 13-02023 .................. $38.95

OVERCasters
Overcasters is a unique IFR training tool which clips to glasses (sunglasses or RX) in seconds. Flip-up in one easy motion for easy transition. Feather light with no straps, helmets, or hoods. Accepted by IFR examiners for checkrides................. P/N 13-33799 .................. $16.95

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

Description Part No. Price
Clear Lens Fog 1.0 13-05004 $29.95
Clear Lens Fog 1.5 13-05005 $29.95
Clear Lens Fog 2.0 13-05006 $29.95
Clear Lens Fog 2.5 13-05007 $29.95
Clear Lens Fog 3.0 13-05008 $29.95
Tint Lens Light Mirrored Tint Fog 1.5 13-05009 $29.95
Tint Lens Light Mirrored Tint Fog 2.0 13-05010 $29.95
Tint Lens Light Mirrored Tint Fog 2.5 13-05011 $29.95
Tint Lens Tinted Fog 1.5 13-05012 $32.95
Tint Lens Tinted Fog 2.0 13-05013 $32.95
Tint Lens Tinted Fog 2.5 13-05014 $32.95

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. ............. P/N 13-12753 .................. $19.95

BEST HOOD: IFR TRAINING HOOD
The ‘Best Hood’ is a sturdy paper hood which is amazing simple yet very protective. It folds flat for the flight bag and is an excellent vision limiting device for instrument pilot training. Easy to use, the hood has a comfortable elastic headband and it fits easily over glasses. ......... P/N 17-00020 .................. $7.95

www.aircraftspruce.com
AIRCRAFT LOG BOOKS

AERO PRODUCTS AIRCRAFT LOGS
Permanent, hard cover, logs with leatherette cover printed in gold. Pages are updated to current FAA requirements. Generous line spacing. Size: 5.75” x 7.5”; 74 pgs; Green cover. Comprised of 9 sections: Aircraft Description, Installed Equipment, Major Alterations, Life Limited Parts or Overhaul Requirements, AD or Factory Bulletin Compliance Record, Allimeter and Static System Checks, Radio and Electronic Checks, Maintenance Record (FAR 43.3), Inspection Record (FAR 43.11-91.217).
Price: $15.50

CUSTOM-BUILT AIRCRAFT OWNERS & OPERATORS MANUAL
Contains spaces for listing of aircraft description, specifications, construction data, weight and balance calculations, operating limitations, operating instructions and servicing information. (L. Pazmany)
Price: $24.95

ASA AIRCRAFT LOG BOOKS
Designed to keep records of the entire aircraft in order: inspections, tests, repairs, alterations, ADs, service bulletins, and equipment additions, revaluations or exchanges.
SA-1 soft cover-hunter green; 7.25” x 4”; 64 pgs
Price: $7.95
SA-2 hard cover-Hunter Green; 7.75” x 5-5/8”; 96 pgs.
Price: $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 without digging through those usually kept in the maintenance hangar.
Price: $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, fight schools, charter and many other operations where there are a number of different pilots flying the aircraft.
Single engine log
Price: $7.95
Multi-engine log
Price: $7.95

AIRCRAFT TECHNICAL LOG POST BINDER
Basic Binder: Single and twin-engine airplanes have fewer maintenance logs which can be easily managed with these basic Chicago-screw type binders. This binder can hold four to eight maintenance logs, enough for the typical twin, with plenty of space remaining. These high density poly binders are fuel and solvent resistant, almost indestructible, and will protect your tech logs in any shop environment. Binder package includes envelope for service tags and airworthiness forms.
Price: $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.
Price: $6.95

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

AERO PRODUCTS ENGINE LOGS
Permanent, hard cover, logs with leatherette cover printed in gold. Pages are updated to current FAA requirements. Generous line spacing. Size: 5.75” x 7.5”; 74 pgs; Green cover. Comprised of 9 sections: Engine Description, Installed Equipment, Repair and Inspection Record (propeller or rotor only), Maintenance Record (FAR 43.3), Inspection Record (FAR 43.11-91.217), Fondnation Repair and Alteration Record (engine, propeller, rotor only). Prepared for CFR 14.505
Price: $16.50

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

ASA AIRCRAFT FLIGHT LOG
The ASA Flight Log is the perfect tool for aircraft owners and aircraft flown by multiple pilots to keep track of the care and use of an individual aircraft. Spiral bound and perfectly sized to fit in an aircraft glove box or chart pocket. Logbook pilots will have quick reference to the recent history of the airplane without digging through those usually kept in the maintenance hangar.
Price: $9.50

ASA PROPELLER LOGBOOK
Record data for hub & blade inspections, repairs and alterations, airworthiness directives, & factory bulletins. Soft cover, Black, 7-1/4” x 4”, 20 pages.
Price: $3.95

ASA AVIONICS LOG BOOK
Includes entries for avionics equipment, VOR accuracy, transponder & ELT checks, AD & SB compliance, maintenance records. Soft cover, blue/gray, 7.25”x4”, 64 pgs.
Price: $5.95

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, recurrence, employment applications, and insurance applications. Plastic coil binding on each page.
Price: $14.95

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.
Price: $36.65

AIRCRAFT TECHNICAL LOG
SECTION 1 AIRFRAME
The Airframe Log (Section 1) is used to record details of aircraft 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 5 sections are ordered separately, depending on the number of engines, props, etc. Each 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
Price: $13.85
Log Section 2 Record Of Installations
Price: $8.75
Log Section 3 Engine
Price: $12.50
Log Section 4 Propeller
Price: $12.50
Log Section 5 Component
Price: $7.95
Log Post Binder
Price: $26.50
PILOT LOG BOOKS

JEPPSENE 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 13-21726 ...........$26.70

JEPPSENE PROFESSIONAL EUROPEAN LOGBOOK
Complies with JAR 1.080 regulations for logging flight time in Europe for at least 10 years of data. Size: 17-1/8 x 11" x 28.6 cm ...........P/N 13-02212 ...........$29.95

JEPPSENE PILOT LOGBOOK
Our 96-page permanent record offers large flight time category spaces, arranged according to FAA regulations. Printed on "Easy-eye" green pages that resist "bled through". Size: 8-5/16" x 5-5/16" P/N 13-21732 ...........$11.95

LITTLE PILOT LOGBOOK
The Little Pilot Logbook is the perfect gift for the aviation enthusiast. Record treasured stories and precious favorites, display adorable pictures and store mementos in this spiral bound 8.75" x 5.75" hard cover book that lays flat for easy entry and portable enough to carry with our on your next journey. This keepsake will receive it as a record of childhood memories of flight.
P/N 13-08051 ...........$24.95

STUDENT PILOT LOGBOOK
This Logbook is designed for Student Pilots preparing for Private, Sport, and/or Recreational Pilot licenses. The student's learning process 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 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 category spaces, arranged according to FAA regulations. Printed on "Easy-eye" green pages that resist "bled through". Size: 8-5/16" x 5-5/16" P/N 13-21732 ...........$11.95

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

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FLIGHT SCHEDULE LOG
Essential to smooth dispatching, features include: a replaceable perpetual aircraft/instructor entry panel; standby request section. Entries are in 15-minute blocks. Charcoal Gray binder is 17-1/4" x 13-5/8" with 15" x 12" pages for easy viewing. 60 pages included, refill packs available.
P/N 13-02308 ...........$39.75

FLIGHT SCHEDULE REFILL PACK - Can be used over and over with this 60-day refill.
P/N 13-02309 ...........$21.85

POWDER PUFF PINK LOGBOOK
The Powder Puff Pilot standard logbook has a pink, protective hard cover with the Powder Puff Pilot logo on the front. It's standard size (8¾ by 6¼ inches) with 52 pages of all the record keeping, endorsements, and flight log information that every pilot needs. Inspirational quotes from the famous pioneers of women aviation sprinkled throughout to keep you motivated, inspired, and flying high.
P/N 13-06342 ...........$17.95

STANDARD PILOT MASTER 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 portable enough to fit any pilot's needs, student or ATP. Columns provide standardization, 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 ...........$19.95

PILOT LOGBOOK (ASA-SP-10)
Blue, soft cover, 7-3/4" x 4-1/8", 16 pages. Ideal as a pilot's first logbook and for introductory flight give-away.

ULTRALIGHT PILOT'S LOGBOOK
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. High quality paper and hard cover binding. 112 pgs. 5"x9".
P/N 13-08801 ...........$5.75

GLEIM PILOT LOGBOOK
The Gleim Pilot Logbook provides detailed entries for all inflight information, sections for certificates, ratings, and operating privilege endorsement, section, table of contents, room for up to 450 entries, and much more. High quality paper and hard cover binding. 112 pgs. 5"x9".
P/N 13-31822 ...........$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 9 1/4".
P/N 13-17634 ...........$9.95

ASA STANDARD UAS OPERATOR LOG
The Standard UAS Operator Log meets the needs of civilian, military, hobbyists, and professional operators alike so that critical flight details can be tracked. It provides record-keeping for flight operations of small and larger unmanned aircraft systems (UAS) or unmanned aerial vehicles (UAV), remote-control aircraft (R/C), remotely piloted aircraft (RPA), and drones. Color: Grey.
P/N 13-18544 ...........$10.95

Prices Subject to Change Without Notice

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 page are designed to keep traditional logging info but to provide more flexibility. It has customary Date, Aircraft, Pilots, Route & Remarks sections. Each page is 8.5” x 9”; 20 entries per page; 288 pages which allows for 2600 entries.

Antique - Brown leather

13 Pack

Prices Subject to Change Without Notice

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WWW.AIRCRAFTSPRUCE.COM

FLIGHT CREW LOG BOOK

This shirt-pocket-sized crew log has 216 pages for recording flight times, expenses, duty rigs, crew names, phone numbers, door codes, and more. 12 monthly schedule pages, plus a provision for year totals in the appendix. Meets FAA & IRS record keeping requirements. Durable high quality vinyl cover. Red. 4.25” x 3.25”

P/N 14-00066 $8.50

CULHANE CANADIAN AME LOGBOOK

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

P/N 13-18041 $19.95

FLIGHT CREW LOGBOOK

The Flight Crew Logbook has the same dimensions as a passport with a thickness of 1/2 inch and was designed to fit into the pocket of a pilot uniform shirt. Each logbook contains 90 days of flying. Each day of flying has 9 legs, a minutes conversion chart, time total lines, and a space for notes to record things such as flight crew names, tips, and other desired information. Flight Crew Logbook also meets FAA and IRS record keeping requirements.

P/N 13-12332 $6.50

MASTER LOGBOOK CASE

Durable nylon logbook cover sized to hold master logbook, charts, and other aviation essentials. Loop forpen or pencil, hook and loop closure, clear pockets for license and medical certificate. 7.5”x12”; hold logbooks up to 6.5”x11”.

P/N 13-02311 $19.95

LOG BOOK COVERS

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

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ASA STANDARD EASA FCL-COMPLIANT PILOT LOG

The EASA FCL-Compliant Pilot Log meets European Aviation Safety Agency record keeping requirements and complies with Flight Crew Licensing rules, EU-FCL 050. The profile page in the front of the logbook provides room to include personal info such as licenses held, date issued, license number, ratings, and aircraft type. 

P/N 13-21068 $9.50

LOGBOOK ENDORSEMENT STICKERS

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

P/N 13-06985 $2.35
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, adjustable 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 $389.00

CLUBGLOVE AOPA ROLLING DUFFLE

Premium medium travel bag (9.0 lbs) accommodates enough clothing for 1-week travel time. Lightweight and strong, glides effortlessly through airports and train stations, even when fully packed, for stress-free travel. Includes set of large and small clothing organizers. Made in USA. Limited lifetime warranty. AOPA logo will be embroidered on bag. 28.5" H x 13.5" W x 11.5" D. 53.5 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 computer. With adjustable, padded shoulder straps. Made in China. 19" H x 16" W x 9" D. 44 linear inches. Constructed with Invista™ Cordura® 1000 D water resistant nylon up to 3x stronger and lasts up to 5x longer than standard polyester. 1600 D ballistic nylon base. Reliable and durable 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 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 13-16586 $89.95

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 travel 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 $39.85

SCHEYDEN 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 will wick 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

Prices Subject to Change Without Notice

www.aircraftspruce.com

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BRIGHTLINE B2 COMPUTE BAG
The B2 Compute starts with the 2” Center Section, which is designed to hold 13” laptops. Add a Front and Rear End Cap and you have an extraordinary laptop bag. The Front End Cap allows you to store items such as headsets, cords, backup drives, flash drives, digital cameras, smart phones, tools, keys, etc. Meanwhile, the Rear End Cap allows you to store your manilla folders and documents. This can be used daily or you can attach the 2” Center Section to any other FLEX module. For example, you can zip it in between the Front Bag and the Rear Bag when traveling. This bag also includes the Portfolio Handle which can be attached to the Front End Cap. This will only be used when you decide to remove the Center Section Two and zip the Front End Cap and the Rear End Cap together to make a “Portfolio Bag”.
P/N 13-19693.....................$174.00

BRIGHTLINE FLEX B4 SWIFT FLIGHT BAG
The B4 SWIFT makes a perfect VFR Flight Bag with room for one or two headsets, an iPad, a handheld radio, and organization for all 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 headsets plus a handheld radio, 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 13-118168.....................$133.00

BRIGHTLINE FLEX B7 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 B7 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 15” with interior storage capacity of 240 cubic inches. (And remember, it is a soft bag so it can expand slightly in every direction.)
P/N 13-19654.....................$345.00

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 13-196166.....................$48.00

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 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 SIDE POCKET DELTA
The Side Pocket Delta is a double pocket designed to provide greater outside storage with a larger pocket. Installs onto any two side-by-side attachment bags. Even bridges the gap between two modules. P/N 13-11989.....................$19.00

BRIGHTLINE SIDE POCKET CHARLIE
The Side Pocket Charlie is a pen pocket designed to hold pens and pencils in flight. In addition, it will hold eyeglasses and larger markers in the pocket behind the slots.
P/N 13-11988.....................$13.00

BRIGHTLINE SIDE POCKET BRAVO
The Side Pocket Bravo is a small radio pocket designed for the small aviation radio. There is also room for extra batteries and small items. P/N 13-11987.....................$13.00

BRIGHTLINE SIDE POCKET ALPHA
The Side Pocket Alpha is a radio pocket that is designed to hold a large radio or water bottle. The zipper conceals an expansion flap.
P/N 13-11986.....................$13.00

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, giving it a finished look to the exposed area. By adding a Rear End Cap, not only do you add functionality, you protect the exposed zipper, preventing possible damage. The Rear End Cap is 13.5” x 10.5”. The Rear End Cap does not come with a Main Handle or a Shoulder Strap. P/N 13-11985.....................$27.00

BRIGHTLINE FRONT END CAP
This is the Front End Cap that mimics the front of the Front Bag. It is 13.5” x 10.5” x 1.5”. The Front End Cap is designed to hold your cell phone, wallet, Multi-Tool, cords, cables, etc. It is not designed to be used alone as the zippers are exposed and could be damaged. Works well with a Rear End Cap.
P/N 13-11984.....................$52.00

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.....................$98.00

BRIGHTLINE CENTER SECTION 5 INCH
The CS5 was developed primarily for our IFR Flight Customers. With the B10, you get enough storage for VFR to light IFR flying. By adding a CS5, you can now add IFR Binders and documents, without changing the setup of the B10. Also, perfect for a couple days worth of clothes, two more sets of headsets, or a 13” laptop. The CS5 is 13.5” x 10.5” x 5”. (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
Slde the two pairs of o-rings onto the main handle of the B10, B16, or B25 Bag and nestle the J-hook from your main suitcase in between the two pairs of o-rings to keep the J-hook from sliding side-to-side on the main handle of the BrightLine Bag as you pull your main suitcase around. Includes two pairs of o-rings (total of 4).
P/N 13-11991.....................$2.00

Prices Subject to Change Without Notice
**BRIGHTLINE FLEX B4 SWIFT - ECHO**

The B4 SWIFT-ECHO makes a perfect VFR Flight Bag for airline Captains as there is room for one or two headsets, one or two iPads, a full-sized water bottle, plus all the small stuff you’ll want along for the ride. The B4 SWIFT-ECHO includes our unique Main Handle J-Hook that is designed to fit onto the J-Hook of most rolling suitcases. It also serves as an unbeatable carry-on personal bag when traveling on commercial flights, or just as a terrific daily bag for a wide variety of personal and professional uses. The B4 consists of the POCKET CAP FRONT, CENTER SECTION 4, FLAT CAP REAR, along with two Side Pockets, Echo and Charlie. It also includes the MHJ and SS. It does NOT include a SLIM HANDLE KIT. If you ever think you’d like to remove the CS4 and zip just the two End Caps together to make the B0 SLIM, you’ll need to make sure you also order an SLIM HANDLE KIT. P/N 13-21547 $180.00

**BRIGHTLINE FLEX B7 FLIGHT - ECHO**

The B7 FLIGHT is perhaps the most useful flight bag ever designed. It’s a fact that some days you need more gear than others. The B7 lets you carry a full set of flight gear for cross country and basic IFR flight. And then it lets you downsize to a smaller bag for those days when you’re just going to take a quick VFR flight. The B7 consists of the POCKET CAP FRONT, CENTER SECTION 4, FLAT CAP REAR, along with two Side Pockets, Echo and Charlie. It also includes the MHJ and SS. It does NOT include a SLIM HANDLE KIT. If you ever think you’d like to remove the CS4 and zip just the two End Caps together to make the B0 SLIM, you’ll need to make sure you also order an SLIM HANDLE KIT. P/N 13-21548 $219.00

**BRIGHTLINE FLEX B-ZERO SLIM**

The B0 SLIM is obviously the thinnest possible FLEX SYSTEM configuration. The “iPad bag” because works so well as an ultra-thin computing and personal bag - a “man purse” if you will. The B0 is simply the POCKET CAP FRONT and the FLAT CAP REAR modules zipped together. It has no definable interior storage dimensions since it is just two End Caps put right against each other, but the flexible nature of the parts allows one-half inch to three-quarters inch of flat items to fit inside between the modules. P/N 13-21546 $107.00

**BRIGHTLINE POCKET CAP REAR**

PCR: The POCKET CAP REAR module offers a variety of pockets organized into three “main” pockets, each one with two “secondary” pockets, for a total of nine small pockets on the Rear panel. There is also a flat half-height slip pocket on the inner surface of the module where you can stow important documents or two. The key benefit of this PCR module is that you can put a second set of exterior pockets on the Rear of your bag, to go along with the ones that you already have on the Front of your bag. More pockets - more organization. P/N 13-21549 $52.00

**BRIGHTLINE FLAT CAP FRONT**

The FLAT CAP REAR attaches to the Rear Surface of all Center Sections as well as directly to a Front End Cap. The FLAT CAP REAR module offers one flat pocket on the outside, and one flat half-height slip pocket on the inner surface of the module. The primary outer pocket is accessed from the top and has a cover flap that is secured with Velcro. This where you’ll likely store your iPad (as long as it’s not in a thick case), or a manilla folder or two for some documents, or a magazine. P/N 13-21550 $27.00

**BRIGHTLINE CENTER SECTION TWO - TALL**

The CS2-Tall is designed for carrying 15” laptops, iPads etc. This center section is 15” x 10.5” x 2” and it can attach to all of the FLEX System modules including other center sections. This item does not include a Main Handle or Shoulder Strap. If building a custom bag, make sure your order includes one or both. The CS2-Tall can be used in any configuration and is not designed to be used by itself due to the possibility of damaging the exposed zippers. You will always want to have something (either another module or an End Cap) zipped onto both sides of the CS2-Tall to protect the zippers. P/N 13-21551 $46.00

**BRIGHTLINE CENTER SECTION THREE**

The Center Section Three offers 3 inches of storage and easily carries 13” laptops, some 14” laptops, tablets as well as documents, folders, clipboards, etc. There is one small accessory pocket on the side panel, accessible with a vertical zipper. It’s a good size for pens, markers, highlighters, or spare reading glasses. The Main Compartment of the CS3 has locking zipper sliders. P/N 13-21552 $41.00

**BRIGHTLINE CENTER SECTION FOUR**

The Center Section Four offers four inches of storage depth and comes with a divider shelf attached to the side walls of the main compartment with Velcro. This shelf can be positioned right where you need it or removed for full access storing one or two headsets or GPS. This item does not include a Main Handle or Shoulder Strap. If building a custom bag, make sure your order includes one or both. The interior of the CS4 is 13.5” tall, 10.0” wide, 4.0” deep. P/N 13-21553 $51.00

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### BRIGHTLINE ACCESSORIES

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AERO SQUADRON LEATHER BAGS

AERO SQUADRON LEATHER DUFFLE BAG
Carry on Bag
Dimensions: 11" Length, 10½ Height, 9.5 Width
Color: Walnut
P/N 13-07202 .......... $296.00

AERO SQUADRON LEATHER BRIEF CS
Satchel Brief
Dimensions: 16.5" Length, 12 Height, 4 Width
Color: Walnut
P/N 13-07199 .......... $358.00

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

AERO SQUADRON LEATHER TRAVEL SLING
Travel Sling.
Dimensions: 13.5" Width 9.75" Height, 6.75D
Color: Walnut
P/N 13-07204 .......... $170.00

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

AERO SQUADRON LEATHER SHAVE KIT -
Shave Kit
Dimensions: 10" Length, 6" Height, 4" Width
Color: Walnut
P/N 13-07198 .......... $104.00

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

AERO SQUADRON LEATHER FLIGHT BAGS

Aero Squadron Leather SHAVE KIT -
Shave Kit
Dimensions: 10" Length, 6" Height, 4" Width
Color: Walnut
P/N 13-07198 .......... $104.00

AERO SQUADRON LEATHER FLIGHTLINE FLIGHT BAGS

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

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

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

BISON FLIGHT BAGS

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

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MOUNTAIN RV FLIGHT BAG

A practical solution to organizing the cargo area of your RV-6, RV-7 or RV-9. Also makes a great overnight bag! The RV Flight Bag was designed to fit behind the pilots and co-pilots seat of the RV-6/7/9. It fits over the flap actuator bar and makes maximum use of the area behind your seat. 18 inches high and 12.5 inches wide. There are two side pockets, one 10" x 4 " and a 7" x 5.5" map pocket. The rear side of the bag has a pencil /flashlight/fuel tester pocket, a 10 inch x 7 inch headset pocket, and a 6x5 ¼" pocket for small tools. It has a nice carrying handle and comes with two straps that can be attached to your seat back to clip the bag to your seat to minimize movement. It also comes with a removable shoulder strap.

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NORAL EXPRESS FLYER BAG
The swing hook for the adjustable shoulder strap is made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. Made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellent taffeta. Black.........................P/N 13-11440........$61.75
Grey..........................P/N 13-11441........$64.75

NORAL TRIPLE HEADSET BAG
The Noral Triple Headset Bag is made of 1680 Denier Ballistic water repellant material. Interior is fully padded and covered with the liner of water repellent taffeta. Black.........................P/N 13-11430........$59.75
Grey..........................P/N 13-11433........$61.95

NORAL FLYING CLUB BAG
This bag is designed for all pilots, especially for the compact cockpit airline pilot, Military pilot and for private and student pilots. This bag can hold most essential instruments efficiently. The main compartment of this bag can hold a large headset, logbook and/or any other similar items. The rear pocket works well to hold books, maps or similar items. There is also a small front pocket with zipper closure and two side pouches for Transceiver/ GPS etc. Made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellent taffeta. Black.........................P/N 13-11442........$55.95
Grey..........................P/N 13-11444........$57.99

NORAL ATTACHE FLIGHT BAG
This bag has two side pouches for large headsets. One of these side pouches has a flap pocket with zipper closure to store pens, flashlights, ID card and/or license etc. Inside the main compartment there are two removable pouches for GPS/Transceiver and two dividers. The dividers can be adjusted to different positions and are removable. The front of the bag has a large open pocket for easy access. The back of the bag has a large zippered pouch with piano type opener and three dividers. At the bottom floor of this bag is a removable plastic board to reinforce it and to keep the bag from sagging when fully loaded. Made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellent taffeta. Black.........................P/N 13-11446........$206.95
Grey..........................P/N 13-11448........$216.95

NORAL PILOT BAG
This bag can hold most instruments and is compact to save cockpit space. There are a total of 13 pockets inside and one large pocket outside for a headset. The main compartment of this bag can hold a large headset or other equipment. It has another zippered pocket in the front for a logbook or any other similar item. This bag also has some small rear pockets. Black.........................P/N 13-12432........$142.75
Grey..........................P/N 13-12433........$159.75

NORAL AVIATOR FLIGHT BAG (DETACHABLE)
The main compartment of this bag has a removable divider which can be adjusted to a different position. The bottom floor has a removable plastic board to reinforce. 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 repellant material. Black.........................P/N 13-11428........$165.95
Grey..........................P/N 13-11429........$176.75
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 a large 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 have reflector bands that can be seen at night time. The back of the bag can be opened like a portfolio and there are 21 elastic loops to keep organized. Inside this portfolio is a large zippered pocket. The main compartment has 10 more elastic loops for small tools and 3 easy access pockets. The main compartment also has a removable and adjustable divider to keep instruments organized. Color: Grey..................P/N 13-11421........$153.75

NORAL SINGLE HEADSET BAG
This bag is ideal for the pilot that wants to carry a passen- ger headset or his own, separate from his flying bag. It is constructed with genuine DuPont® Cordura® 1000 Ballistic water repellant material. It is fully padded with a 1/4" foam and backed with a layer of tricot. Features separate zippered compartment along with an extra side pocket. Grey..................P/N 13-00286........$36.50
Black..........................P/N 13-00288........$34.60

NORAL STUDENT PILOT BAG
The Student Pilot Bag has plenty of room for everything a student pilot needs to carry and more. It has 2 extra large zippered headset pouches plus another zippered section to hold stores pens, flashlight, fuel tester, E6B computer and more! Access to the main compartment is through a double zippered 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 13-0294........$79.95
Black..........................P/N 13-0297........$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 headset pouches plus another zippered section to hold stores pens, flashlight, fuel tester, E6B computer and more! Access to the main compartment is through a double zippered 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 6” double zippered access flap with a pen and pencil holder. There are two end compartments “6” x 10”. On the front, a zippered 11” x 6” compartment. On the back is a 4”x 8” x 8” headset compartment which will accommodate the largest of headsets. The Mach 1 is made of US Made Nylon with 1/4” Foam Padded, 1000 Denier and is water resistant. It comes equipped with a GPS/Transceiver Pouch that can be worn on your belt. Also included is a shoulder strap and carry handle. Dimensions: 15”L x 11”W x 10”H
Grey........................P/N 13-04088........$118.85
Black..................P/N 13-11500........$121.85

NORAL MACH 2 FLIGHT BAG
A divider in the main compartment can be adjusted in different position and can be removed if you want so. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carry on shoulder. This bag is made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellent taffeta to protect your instrument. All our Flight Bags have 7 years Warranty on Manufacturing defects. Black..................P/N 13-11425........$190.75
Grey..........................P/N 13-11426........$199.95

AIRCRAFT SPRUCE SINGLE HEADSET BAG
Safe and convenient way to protect a single headset. Features foam padded single zip compartment with convenient webbing handle. Made in USA. Size: 7"L x 4"W x 9"H. Color: Black. P/N 13-00415........$15.50

NORAL HEADSET FLIGHT BAG
The main compartment of this bag can hold a large headset and another space with divider for logbook and/or any other similar item. This bag has a rear pocket with secure touch fastener. It also has a small front pocket with touch fastener and one pouch in the left side for Transceiver/GPS. The right side has holders for pen and small flash light. The main compartment is H9" X W9" X G4.5".
Black..................P/N 13-07468........$41.95
Grey..........................P/N 13-11356........$43.99

NORAL CFI / IFR PILOT FLIGHT BAG
This bag has two side pouches equipped for large sized headsets. One of these side pouches has a flap pocket with zipper closure to store pens, flashlight, ID card and/or license etc. Inside the main compartment are two removable pouches for GPS/Transceiver. The dimension of main compartment is H11" X W14.5" X G10". In the front of the bag is a large open pocket for easy access. The back of the bag has two open pockets and the bottom floor of the bag is a removable plastic board to reinforce. The base of the bag from sagging when fully loaded. Also has two dividers in the main compartment that can be adjusted to a different position and can be removed if desired. P/N 13-15768...................$167.99

NORAL AIR MAP CASE 1000
This Noral Air Map Case 1000 is made of 1680 Denier Ballistic water repellant material. Interior is fully padded and covered with the liner of water repellent taffeta. Black..................P/N 13-11434........$26.50

$153.75 $142.75 $176.75 $165.95 $159.75 $23.85 $153.75

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ASA AIRCLASSICS FLIGHT BAG
ASA has brought pilot gear to a new level with the AirClassics series of pilot bags. Focusing on a clean, sophisticated and professional look, they have been designed and engineered to be supremely functional. Padded 600D nylon for superior durability. Comfort Grip connectable handles. Non-slip detachable carry strap. Reinforcing straps around bag for strength. 10 zippers for easy handling. Headset pockets on both ends. Large single-pull, zippered & dividable main compartment. 18"L x 11"H x 7"W .......................... P/N 13-02336 .................... $68.95

ASA AVIATOR FLIGHT BAGS
The Pilot Flight Bag and the Trip Bag, are made of fully padded nylon for extreme durability. They feature wraparound carry straps for strength, a non-slip detachable shoulder strap, and high-quality zippers on the main compartments.

Pilot Bag........... P/N 13-04057 .................. $37.95
Trip Flight Bag....... P/N 13-04058 .................. $59.75

ASA TECH FLIGHT BAG
Ideal for the computer-toting pilot. It includes a padded laptop sleeve for safe storage of your computer or favorite EFB (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. Comes on ASA’s AirClassics Flight Bags to bring many years of utility and pride. 15-1/2"L x 11"H x 3"W. P/N 11-08805 .................. $24.95

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

GELFLEX “CREW” LUGGAGE TAG DUAL SIDED
The Gelflex Crew Luggage Tag is a great version of a traditional Crew Tag. Black letters (CREW) on vibrant background. And best of all, it comes with a special flexible cord that allows 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

AERCOAST PRO I FLIGHT CASE
The Jet series are the 4th generation of flight cases designed by Aerocoast. Unlike the competition, these bags don’t use cardboard. All Jet series flight cases are built with composite sheeting material and riveted steel framing for long lasting durability in rain or shine. Outside dimensions: 18 x 13 x 8 inches. P/N 13-06041 .................. $160.00

AERCOAST PRO SLIM NOTEBOOK BAG
A great addition to the 13-12894 Pro Cooler Bag sold separately. Shoulder strap connection points on both modular sections. Easy X-ray screening at TSA checkpoints so you will never take out your laptop again. You will save time and you will protect your laptop, iPad or EFB from physical damage. Ipad compartment dimensions 15 x 11 x 1.5 inches. P/N 13-12895 .................. $27.80

AERCOAST PRO COOLER I
Eat healthy on the road and save money. This cooler bag has two separate insulated compartments with silver lining to keep your food warm or cold. Tired of lugging around more food than you have to? Do you want to eat healthier and save money while on the road? You can eliminate a lot of day to day hassle at the TSA checkpoints. Ergonomically designed snack handle for quick, easy, and comfortable use. Four additional pockets for easy storage of accessories. Rigid case construction for additional durability. A great addition to the 13-12895 Pro Slim Notbook Bag sold separately. P/N 13-16281 .................. $94.95

AERCOAST PRO EFB & INSULATED COOLER BAG
Top pocket for sunglass. Shoulder strap connection points on both modular sections. Modular design lets the EFB & Cooler portion to be used independently or use 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 a tablet. It will also hold a headset, charts, a plotter, logbook, radio, or GPS unit, and all of those other small items a pilot may need to carry. The outside of the bag has a spot for a flashlight or fuel tester and a zip pocket for a radio, GPS, or water bottle. The padded, adjustable shoulder strap can be worn cross body for a comfortable fit, and easy portability. Focusing on a clean, sophisticated and professional look, the ASA AirClassics® Tablet Bag is designed and engineered to be supremely functional, able to stand up to the toughest treatment possible, yet still look great at the end of the day. P/N 13-18460 .......................... $69.95

ASA AIRCLASSICS PILOT BACKPACK
The ASA AirClassics® Pilot Backpack is made of durable fabric and supported by a heavy-duty water-resistant bottom, this backpack keeps books and supplies organized and protected. Four zippered compartments provide ample room for just about anything a pilot-on-the-go needs. The front pocket will accommodate most aviation headsets, including the HS-1A Headset and Single Headset Bag (both sold separately). The second level interior compartment has a lanyard for keys, a zippered containment pouch, and plenty of pockets and slots for pens, pencils, flight computers and plotters. The spacious main compartment supports textbooks and manuals, and the checkpoint-friendly fold-down back panel contains a padded pocket for a laptop, and a felt-lined pocket for a tablet. The backpack’s interior contrasting-color lining makes it easy to find things inside. P/N 13-19424 .................. $83.80

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JEPPESEN CASES & FLIGHT BAGS

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

VOYAGER II FLIGHT ATTACHE FOR iPAD
The Voyager II has upgraded metal snap hooks and d-rings to attach the stretchy, comfortable Air Lift shoulder strap. There is a separate pocket inside to carry your 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 5.5in. Weight: 2lbs 13oz P/N 13-11877 .............$63.85

FLIGHT BAG 1 V2
This bag is like the hard flight cases airline pilots use. There’s no maze of compartments, just efficient, sensible storage. Maybe that’s why a major US airline flight training academy chose Bag1 as standard issue for their students. This Cockpit Bag is simple, practical, and cockpit friendly. Perhaps its ease of use is a Brighter idea. Enjoy the simplicity of well thought out storage, just right for most pilots. Color: Black. P/N 13-20149 .............$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. Moves easily. 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

LARGE CARRY BAG WITH DIVIDER SYSTEM

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

FORCE PROTECTOR GEAR HELMET BAG
This bag is a much larger storage capability without taking up too much cabin space in aircraft. The pleated bag design expands and contracts with your loadout to easily fit your helmet and accessories. Dimensions: 21.5” Wide x 19” Tall x 3.25” D (54.6cm Wide x 48cm Tall x 8.3cm D). Capacity: 1226 cubic inches internal / 20 liters / 676 cubic inches external pockets / 11 liters. Weight: 2 lbs / .9kg. P/N 13-20223, 13-20637, 13-20638, 13-20639, 13-20640, 13-11877, 13-11875, 13-11469

Color
Blue
Black
Red
Price
$181.75
$181.75
$181.75

THE AVIATOR BAG
Slightly smaller than the Navigator Bag, but still spacious enough for all your flight materials. Includes 1 exterior front pocket as well as detachable headset & transceiver cases. Constructed with durable PVC backed with 600 denier poly. 15” x 6.5” x 12” (black only). P/N 13-00998 .............$69.95

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” x 17” (black only). P/N 13-00997 .............$31.50

JEPPSENE STYLE FLIGHT BAG
Student/Book Bag: Same great bag Jeppesen uses for its training kits. The bag is made from heavy-duty 6000 denier Cordura for superior strength and with a PVC coating on one side for added water resistance. Includes outside pockets, removable shoulder strap, reinforced bottom. Size 10” x 6.5” x 17”. P/N 13-06280 .............$29.95

AIRCRAFT DOCUMENT CASE
This durable, flexible blue cordura pouch is an ideal way to keep aircraft registration, insurance, log books, operating manuals, and other important documents all in one safe location. Measures 18”W x 12”H. Features top quality zipper along front side for easy access and location to mark your aircraft number on front. P/N 13-00998

Color
Blue
Black
Red
Price
$23.50
$19.95

TRASH BAG WITH ADJUSTABLE SEAT BACK STRAPS

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FLIGHT OUTFITTERS PROPACK BAG
The Pro Pack is an optional insulated bag that is designed to fit inside one of the hide away pockets of the Flight Level Bag. This handy pack provides extra protection for delicate items or an insulated place to put your snack out of the way of your flying gear. FLIGHT LEVEL Pro Series bag is not included. 

Specifications: • Weight (empty): 2 lbs. • External: 18”w x 10.5”h x 9”d • Main Internal Pockets (front to back) 

P/N 13-18539 $12.95

FLIGHT OUTFITTERS LIFT PRO FLIGHT BAG
The Flight Outfitters Lift Bag is offered in all-black. This sturdy bag has room for all the essentials, but won’t get in your way. Includes a large headset pocket, iPad pocket and multiple organizer sections with room for all your accessories. A helpful exterior pocket makes it easy to grab your backup radio in an emergency. Steel-reinforced carrying handles will haul even the heaviest load, and the reinforced sides offer additional protection. Signature orange interior makes it easy to find the flashlight or pen in the dark.

P/N 13-22022 $99.95

FLIGHT OUTFITTERS LIFT XL FLIGHT BAG
The Lift XL is a larger version of the top-rated Lift Bag, adding more room for storage (ex. two headphones, not included) and more organization options, all while retaining the signature design features that make Flight Outfitters bags so useful in the cockpit. For professional pilots who prefer an understated, all-black look, the Lift XL Pro is ideal. Features a solid black exterior but with the signature orange interior so items are easy to find in the dark. Slides over your rolling luggage for easy transport.

Specifications: • Weight (empty): 2 lbs. • External: 18”w x 10.5”h x 9”d • Main Internal Pockets (front to back) 

P/N 13-22202 $149.95

FLIGHT OUTFITTERS LIFT XL PRO BAG
The Lift XL Pro is ideal for professional pilots who prefer an understated, all-black look. As a larger version of the top-rated Lift Pro Bag, the Lift XL Pro adds more room for storage (ex. two headphones, not included) and more organization options, all while retaining the signature design features that make Flight Outfitters bags so useful in the cockpit. Features a solid black exterior but with the signature orange interior so items are easy to find in the dark. Slides over your rolling luggage for easy transport.

Specifications: • Weight (empty): 2 lbs. • External: 18”w x 10.5”h x 9”d • Main Internal Pockets (front to back) 

P/N 13-22201 $149.95

FLIGHTOUTFITTERS 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

ASA DISPATCH BAG
Adjustable comfort shoulder that can also be worn cross-body. Top grab-and-go handle. Contrast lining, to find items more easily. Made of durable, 600D Polyester. Spacious main compartment fits headset. 2 pockets within main compartment keep headset accessories or smaller items organized. Front interior compartment organizer with slots and pockets to store phone, keys, wallet, pens. Padded compartment to protect a tablet.

P/N 13-19651 $179.95

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 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 pockets 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

FLIGHT OUTFITTERS BUSH PILOT BAG
The Bush Pilot bag is canvas with leather accents, and carries an embossed leather flight outfitters patch on the front. The inside of the Flight Level has the signature Flight Outfitters orange, making it easy to find gear in a dark cockpit. There are two large padded side pockets for headsets. The large front zip pocket has 4 organization pockets, for chargers and other smaller items that tend to find their way to the bottom of other bags.

P/N 13-18539 $12.95

FLIGHT OUTFITTERS BUSH PILOT FOLIO BAG
Whether you’re soaring above the clouds in your Cirrus or closing a big deal in your desk chair, this Folio Bag looks like it just left the flight deck of a DC-3. But while the Bush Pilot Folio has plenty of style, it’s also a very practical bag, storing a surprising amount of gear without looking bulky or weighing you down. It has separate pockets for your tablet and laptop, plus a large center compartment and plenty of exterior pockets. You can keep everything separated but easy to find. For further utility, the Folio Bag has a rear strap to securely attach it to your roll-aboard.

P/N 13-20713 $149.95

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

P/N 13-19651 $179.95
**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-a-way pocket designed to hold most kneeboards. Everything is right where it should be - especially important during IFR flights. The center compartment has a double zipper opening with a padded quad-modular divider to segment the compartment for custom organization and easy access.

P/N 13-03276 .............. $9.95

**SKY HIGH EXPLORER PRE FLIGHT POUCH**
Our preflight pouch is made of durable 600D Polyester. It is designed to organize and hold your basic items for your preflight – Mini Mag size flashlight, fuel tester, pen/pencil, tire pressure gauge, and pliers or wrench. We have also included a grommet on the corner so you can attach a towel for wiping your hands clean. The Explore we fit easily into any bag and has a Velcro strap to attach to your waist belt for convenience during the preflight.

P/N 13-06280 .............. $29.95

**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 (W6” x (H)10”

P/N 13-00186 .............. $202.95

**SCHEYDEN 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 • Perfect for iPads, laptops, or both • Amplf storage for headsets, flashlight, water bottle and gear • Removable padded shoulder pad • 1 Exterior zippered pocket • 1 Interior zippered pocket • 2 Interior breathable mesh pockets • 2 Interior side elastic loops to hold gear • Interior key holder • Interior ID holder • Made with Invista™ CORDURA® brand 1000 d water resistant nylon fabric up to 3x stronger and lasts up to 5x longer than standard polyester • Reliable and durable YKK® zippers and ITW Nexus® Buckles • Integrated Train Reaction™ luggage connecting system (Patent Pending Serial#12/348,857), Dimensions: 22.5. Weight: 13.2 Lbs. Limited lifetime warranty optional 5-Year NQA warranty upgrade.

P/N 13-14968 .............. $599.00

**SCHEYDEN 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.

FK (Flight Kit): • 12”H x 14”W x 8”D • Amplf storage for headset, flashlight, water bottle and gear • Removable padded shoulder pad • 2 removable mesh clothing organizers • Interior horizontal clothing divider • Mesh zippered interior accessory pocket • One outside zippered pocket • Auxiliary side handle • Made with Invista™ CORDURA® brand 1000 d water resistant nylon fabric up to 3x stronger and lasts up to 5x longer than standard polyester • Reliable and durable YKK® zippers and ITW Nexus® Buckles • Integrated Train Reaction™ luggage connecting system (Patent Pending Serial#12/348,857), Dimensions: 22.5. Weight: 13.2 Lbs. Limited lifetime warranty optional 5-Year NQA warranty upgrade.

P/N 13-14970 .............. $529.00

**WEEKENDER COMBO SHOULDER STRAP 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 position while carrying on shoulder. This bag is made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellant material.

Grey ....................... P/N 13-11385 .............. $92.75
Black ....................... P/N 13-01434 .............. $88.90

**NORAL EXTRA PADDED HELMET BAG**
The swing hook for the adjustable shoulder strap is made of metal to ensure heavy load resistance. The shoulder strap has a soft rubber pad for your comfort and to keep the bag in fixed position while carrying on shoulder. This bag is made of 1680 Denier Ballistic water repellant material. Its interior is fully padded and covered with the liner of water repellant material.

Grey ....................... P/N 13-11382 .............. $126.75
Black ....................... P/N 13-00262 .............. $115.75

**CFI / IFR PILOT FLIGHT BAG**
This bag has two side pouches equipped for large sized headsets. One of these side pouches has a flat pocket with a zipper closure to store pens, flashlight, ID card and or license etc. Inside the main compartment is two removable pouches for GPS/Transceiver. The dimension of main compartment is H11” x W14.5” x G10”. In the front of the bag is a large open pocket for easy access. The back of the bag has two open pockets. Has two dividers in the main compartment that can be adjusted to a different position and can be removed if desired.

Size: 11” x 23” x 12” Black ....................... P/N 13-00186 .............. $202.95
Grey ....................... P/N 13-11375 .............. $212.95

**BALLISTIC NYLON FLIGHT CASE 18”**
Many RJ pilots requested a flight case design to fit the RJ cockpit. Using input from RJ pilots, CrewGear® created an RJ specific flight case. It has been flight tested by RJ line pilots who rated it an A+. Outside dimensions: 18.75” x 14.25” x 8.75”. Color: Black. Fits most RJ flight case compartments.

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

**HARDSIDE CARBON FIBER BRIEFCASE**
Large-capacity attache. Styled in sleek carbon fiber frame. Patented Right-Side-Up feature prevents accidental upside-down opening. Accordion-style legal size portfolios and multiple compartments for all your pilot essentials. Secure combination lock. Body Dimensions: 18.2” x 12.7” x 5.2”. Overall Dimensions: 18.2” x 12.7” x 5.2”.

P/N 13-18537 ....................... $879.00

**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 8”. Outside dimensions: 19 1/2” x 15 1/2” x 10 1/2”.

P/N 14-08031 ....................... $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 2’ JEP binder, pilot headset and all related work gear. There is a padded compartment for your Laptop Computer (14” or less), Net Book or iPad. The clothing compartment is perfectly sized for one pair of slacks, one shirt, and all your underwear. The file-folder compartment is perfectly sized to hold documents, magazines and newspapers. That’s not all; this bag also comes with a toiletry pouch, and a shock-absorbing shoulder strap. Weight: 5.15 lbs. (Empty) 6.10 lbs. (w/Accessories). Exterior Dimensions: 18” x 13 1/2” x 9.5”. Color: Black.

P/N 13-11598 ....................... $151.90

**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**

WWW.AIRCRAFTSPRUCE.COM
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 shearling pad. Cotton lining shows schematics of aircrafts. Color: Walnut. 22” Width x 13.5” Height x 6.5” Depth........................................P/N 13-18001 $239.95

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

SCULLY AEROSQUADRON LEATHER TRAVEL KIT
Leather travel kit with exterior dual zip entry compartment. It has a roomy main compartment w/open pockets to hold travel bottles, toothbrush, etc. 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 zipped, mesh interior pocket. Smaller mesh compartment on the outside of the bag. Black with the ASA wings logo tastefully silver-embroidered on the top. Dimensions: 20”L x 10”H x 8”W. P/N 11-08804 $99.95

GATOR WATERPROOF AVIATION CASES
Gator Cases new line of water proof, dust proof, sand proof, crush proof, injection molded cases feature impact-proof light weight NK-7 resin and have a ATA-300 flight safe rating. Every case has a Auto Pressure equilizer valve with a Mil-Std-810F Immersion test certification. Available in both NO FOAM and DICED FOAM version, all Gator Injection Molded Cases have Soft Grip carry handles, and unique easy relase Powerclaw(TM) latching system.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Item Number</th>
<th>Description</th>
<th>Interior Dimensions</th>
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<td>GU-0705-03-WPNF</td>
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<td>13-17882</td>
<td>GX-20</td>
<td>Cargo Case w/Lift-Out Tray, Wheels, Retractable Handle</td>
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<td>13-17883</td>
<td>GXX-22</td>
<td>Cargo Case w/Lift-Out Tray, Wheels, Retractable Handle</td>
<td>12”x24”x30”</td>
<td>$269.99</td>
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CONFOAM SEAT CUSHION
Temperfoam is the conforming foam cushion that was developed for the "Astronaut's Couch" back in the Apollo space program. Seat foam has the capability of absorbing a tremendous amount of impact shock compared to common polyfoam and it is flame resistant. It is an excellent product that will give your seats enduring comfort that you never thought possible. It is not a soft seat, but it adapts to you for pressure-free comfort that is second to none. The best universal cushion for aircraft use is a 3" T/38/T41/0.875"-15" Depth - 12" Width - 16" Height - 17" Seat: Width - 15" Depth - 12". Dimensions: 10½"L x 7½"W x 1"H. Folded Dimensions: 10½"L x 7½"W x 1"H. Weight: 8 oz. Open Dimensions: 10½"L x 15"W x ½"H. Weight: 8 oz.

SKWOOSH™ PILOT SEAT
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. The non-skid bottom makes SKWOOSH™ stay put, ensuring no movement during use while the low profile (½") allows for normal seat position. SKWOOSH™ cushions are made in the USA and are guaranteed for performance and workmanship. Weight: 8 oz. Open Dimensions: 10½"L x 15"W x ½"H. Folded Dimensions: 10½"L x 7½"W x 1"H. 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 15"W x ½"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 Capability is lightweight, folds for portability, is less than 1" high and is almost invisible when 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..........................$39.99

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 inserted into the pockets located on the back of the front seats. Included diamond adapter attaches to a variety of RAM mounts. Length: 13.25". Height: 8.25". Depth: 1". Inside Wedge Depth: 0.375". P/N 11-14362..........................$68.99

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..................$258.95

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.

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue 2&quot; Booster seat w/ 1-1/2&quot; back</td>
<td>13-02916</td>
<td>$84.75</td>
</tr>
<tr>
<td>Red 2&quot; Booster seat w/ 1-1/2&quot; back</td>
<td>13-02917</td>
<td>$86.75</td>
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<tr>
<td>Blue 3&quot; Booster seat w/ 1-1/2&quot; back</td>
<td>13-02918</td>
<td>$79.95</td>
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<tr>
<td>Red 3&quot; Booster seat w/ 1-1/2&quot; back</td>
<td>13-02919</td>
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<tr>
<td>Blue 3&quot; Booster seat w/ 3&quot; back</td>
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<td>$83.95</td>
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<tr>
<td>Red 4&quot; Booster seat w/ 1-1/2&quot; back</td>
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<tr>
<td>Child's Blue 3&quot; Booster cushion</td>
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<tr>
<td>Red - 4&quot; x 1-1/2&quot; back</td>
<td>13-02929</td>
<td>$83.95</td>
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<tr>
<td>Blue - Cut for flight stick 4&quot; Seat w/ 1-1/2&quot; back</td>
<td>13-02930</td>
<td>$84.75</td>
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NORAL SEATS
This cushion is made with the finest materials available. It features a high back with a Lumbar Support for added comfort. The泡沫 inside meets FAA FAR regarding fire materials. A strap is present for easy carrying and securing the cushion to the back of the seat when installed. Available in 2 sizes marked Type 'A' & Type 'B'. Label 'A' is intended for larger aircraft such as Cessna 172, 182, 210, or Cardinal. Label 'B' fits intended for smaller aircraft such as Cessna 150, 152, Piper Cherokee or Warrior. Available only in Black & Smoke Grey.

<table>
<thead>
<tr>
<th>Color</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>2&quot; Seat Cushion only</td>
<td>Black</td>
<td>13-00346</td>
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<td>4&quot; Seat Cushion only</td>
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<td>13-00224</td>
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<td>3&quot; Seat Cushion only</td>
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<td>13-00227</td>
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<td>3&quot; Seat Cushion only</td>
<td>Grey</td>
<td>13-00222</td>
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<tr>
<td>3&quot; Seat Cushion only</td>
<td>Grey</td>
<td>13-00223</td>
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INFLATABLE LUMBAR SUPPORT
This inflatable air pillow can be installed just under the seat material and will give you the customized support just where you need it. A convenient palm-size pump and a release valve control the firmness of the lumbar support. The In-Flight Back Support is made of a heavy duty self-extinguishing neoprene rubber, specially designed to pass FAR 33.853 flame-test requirements.

Quantity One | P/N 13-01501 | $49.75

Quantity Two | P/N 13-01821 | $83.75

$$
Oregon Aero® VK SmartCushion™ Systems for Experimental and Homebuilt aircraft offer maximum-comfort seating designed for your particular aircraft. The VK SmartCushion™ System shifts the hips, pelvis and back into a comfortable sitting position. At the same time, the seat cushions support occupants over as large an area of the seat surface as possible, preventing painful "hot spots." Pilot and passengers fly in comfort no matter how long the flight.

Simply put, Oregon Aero® offers the most comfortable seat in the industry. All Oregon Aero® Seating Systems are 100% Satisfaction Guaranteed.

## OREGON AERO® SEATING SYSTEMS

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

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

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>GlasAir I Pilot Left or Right Cushion Set</td>
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<td>GlasAir II or III Left or Right Cushion Set</td>
<td>13-07475</td>
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### OREGON AERO® SEAT CUSHION GLASTAR

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

<table>
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<tr>
<th>Description</th>
<th>Part No.</th>
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<td>Glastar Left Front Cushion Set</td>
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<td>Glastar Right Front Cushion Set</td>
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### OREGON AERO® SEAT CUSHION LANCAIR 320/360/IV PILOT/LEGACY

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

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<thead>
<tr>
<th>Description</th>
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<td>Lancair IV Pilot or Co-Pilot Cushion Set</td>
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<tr>
<td>Lancair Legacy Left or Right Cushion Set</td>
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### OREGON AERO® SEAT CUSHION RV-4

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

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<td>RV-4 Rear Cushion Set</td>
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### OREGON AERO® SEAT CUSHION RV-6

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

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<td>RV-6 Left or Right Cushion Set 3&quot;</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.

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### OREGON AERO® SEAT CUSHION RV-8

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

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<td>RV-8 Rear Cushion Set</td>
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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 with limited headroom. 2” Cushion available for individuals who need raised up. See www.aircraftspruce.com for additional sizes.

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<th>Color</th>
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<th>Straps</th>
<th>Price</th>
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<td>Blue</td>
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<td>$224.95</td>
<td>13-08614-2</td>
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<td>Teal</td>
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<td>$224.95</td>
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<td>13-08614-5</td>
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### OREGON AERO® SEAT CUSHION VELOCITY

Velocity Cushion Set un-upholstered cushion core.

<table>
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<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>
</tr>
</thead>
<tbody>
<tr>
<td>Un-upholstered CH701 Left cushion</td>
<td>13-07491</td>
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<tr>
<td>Un-upholstered CH701 Right cushion</td>
<td>13-07492</td>
<td>$298.00</td>
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Superlamb Sheepskin Seat Covers: Nature’s 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 handmade 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.

Colors Available

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-rocky mountain sheepskin seat covers

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 seats to cover. Available in 14 colors, shown below. Warranty: 4 years craftsmanship, 2 years materials. Fire testing compliance as per FAR 23.853.

If requesting a color swatch please note: A refund is available for color swatch when returned in same condition received prior to order.

Flexible Cockpit Sun Shades

The CRAZEpilot Sun Shade is a highly portable, easy to store, and easy to use for pilots with only one hand available for placement. Easily conforms to various curvatures of windscreen or side windows. A great lowcost investment to save your interior and panel, without the expense of custom made sunshades! 14.5” x 17” rounded oval shape. Coils folds to a 6” dia. that can be stored in a seat pouch. Secures to any smooth surface (glass, plastic, metal, etc.) with one central suction cup. Easily installed with one hand, and moved quickly. Package contains TWO sun shades and TWO suction cups. Place two sun shades under one suction cup for extra sun protection!........P# 11-13316 ............$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-S26-VIS-G1U includes a 1” ball and complete suction cup mounting kit. The double ball and socket arm with a swivel feature in the center makes adjustment simple and effortless. This mount can be easily configured for left or right handed use as well as pilot and co-pilot use.

Ball and Suction Cup........................................P# 11-13584 ....................$68.15
1” Ball Only................................................P# 11-14911 ....................$35.99

Prices Subject to Change Without Notice

www.aircraftspruce.com

971
ROSEN SUN VISOR SYSTEM

ROSEN SUN VISOR SYSTEM

DIM-IT MOBILE VISOR

You can keep moving your head to stay in the shade of your visor, or you can get a DIM-IT visor and move it to where you want it. It’s a 6”x12” sheet of tinted Lexan that can be positioned on any window in the cockpit by means of the attached vinyl suction cup. (An optional self-adhesive adapter plate lets you attach it to porous surfaces as well.) Completely transparent and distortion-free, DIM-IT Moveable Visor...

MINI DIM-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/ windshiedl and press...

SUN VISORS

Attention: Products noted in “Application Guide” with an ( * ) are for examples, come with third axis standard).

This update kit will fit any Rosen system that does not come standard with third axis option (Piper systems, for example, come with third axis standard)....

ROSEN THIRD AXIS UPDATE KIT: This update kit will fit any Rosen system that does not come standard with third axis option (Piper systems, for example, come with third axis standard)....

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

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

ROSEN VANS RV 6-7-9 ARC SURVIVOR

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

MINI SUN VISOR

Aero Commander Monorail System w/ Visors

ROSEN MONORAIL IPAD / IPAD MINI UNIVERSAL MOUNTS

Designed to attach to any Rosen Monorail, the Rosen Universal iPad mount system provides a convenient and adjustable deployment. The large version will accommodate iPads in OtterBox or similar sized cases, while the standard model is delivered with two hook choices to fit all regular-sized cases as well as bare iPads. Note: it will accommodate all size iPads except the new iPad Pro 12.9. It comes with a U-shaped aluminum mount that can be tightened to fit almost any size. The Mini and Standard models, however, are no problem. Designed to attach to any Rosen monorail. Convenient and fully adjustable. Quick and easy stowage against the headliner.

RV-10 SUN VISOR

Blue Sky Sun Visors were specifically designed for the RV-10. The RV-10 visors retain all of the features of those that have been produced for certified aircraft since 2001. The visors provide improved visibility in hazy or cloudy conditions while still being out of the pilot’s view when not in use. In addition to retaining the superior functionality, durability, and strength of the original Blue Sky Sun Visors, they provide sun and heat screening, whether coming from the front or side for both pilot and co-pilot. Installation is quick and requires only basic tools and mechanical ability....

UNIVERSAL SURVIVOR FOR HOMEBUILT AIRCRAFT

Universal Swivel Mounts - simplify installation into most homebuilt aircraft! Lightweight hardware and optical quality bronze acrylic visor. Designed, and visor tint specified, by eye doctor/pilot Dr. Steven DeGroff, to reduce, high-altitude and ocular media small-particle scatter and enhance vision at dusk, after sunset, when scotopic vision is used. Hundreds of same class visors are field-approved and in use in the Comanche fleet...

SUN VISORS

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Aero Commander Monorail System w/ Visors

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## SUN SHIELDS – CANOPY COVERS

### KENNON SUPER SUN SHIELDS
The most durable sun shield on the market has a clear polyester coating to protect the plexiglass windows. Heat can permanently damage the interior and avionics in your aircraft. The secret is a material with two surfaces of aluminum separated by trapped air. This combination reflects 97% of radiant heat, an insulation value of R-9 equivalent to two inches of fiberglass. Kennon Extra Firm shields fit snugly, and maintain their shape in no time, and roll up for storage in compact, water-repellent bags. **A pack with two pieces only is required for the required application.**

- **General Aviation**
  - P/N 7672: $254.95
- **Business Class**
  - P/N 13-01071: $48.95

### PIPER SUNVISOR CATCHES
Many Piper aircraft have the same problem. The sun visor catches lose to stability, because the UV effect allows the plastic to become porous. These Piper Sunvisor Catches are made from a blended poly-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 lip prevents the plugs from slipping inside the opening when closing. A safety strap wrap around the prop so if by chance you forget to remove the plugs, the prop will remove them for you. These cowl plugs install easily and comes with their own storage bag. Specify aircraft make, model & year when ordering. Include aircraft registration number to be printed on plugs at no extra charge. Single engine plugs: P/N 13-14111 $150.00

### CUSTOM FIT COWL PLUGS
Cowl plugs are tailored to fit popular Cessna single engine aircraft. High visibility yellow closed cell foam will not retain moisture. Printed on one side is “Remove Before Starting Engine”, and the other is blank for the N number. They are joined by a nylon strap with a fluorescent orange “Remove Before Flight” flag. C-172 (1965+) P/N 13-02625 $43.65
C-182 (1972.5 - 1989) P/N 13-02630 $46.50
Transitional kit w/square inlets (Sqr blocks you cut to fit)
Universal kit w/square inlets (Sqr blocks you cut to fit)
P/N 13-02645 $43.65/pr

### UNIVERSAL SHADE KIT
Stick it anywhere you need sunlight protection, blocking 80 or 90% of light and 90% of UV rays! Features: The tinted panel is a breathable and nearly indestructible. The window shade that is perfect for every application. The shape is a rectangle with rounded edges. 10” X 15.5”. It will stick to any window that you want to protect yourself from the bright sunlight glare, damaging UV rays while blocking out heat. Includes Carrying Kit.

**Specifications:**
- **This is the standard universal size of 10” X 15.5”**
- **80% Shade Kit with Bag**
  - P/N 13-21879: $35.99
- **90% Shade Kit with Bag**
  - P/N 13-21880: $35.99

### UNIVERSAL TINT TRAVELING PLANE KIT
This Universal Kit is the perfect choice for everyone! The shape is a rectangle with rounded edges. 10” X 15.5”. It will stick to any window that you want to protect yourself from the bright sunlight glare, damaging UV rays while blocking out heat. Includes Carrying Kit.

- P/N 13-21878: $49.99

### MINI UNIVERSAL TINT KIT
This 5 X 10” “Mini” version of the Universal Tint Kit will be a great addition to an aircraft. Includes Bag.

- P/N 13-21883: $35.99

### PICK A POINT TRAINING AID WITH BAG
This 5 X 10” lightly tinted panel is a great visual sight reference for any CFI or Pilot. Pick A Point can be used on your windscreen to give you a visual reference point when landing or doing air work. You can use a dry erase marker to draw other references such as a vertical/horizontal line, cross-hairs, or even a 45 degree angle. Includes Bag.

- P/N 13-21882: $35.99

### 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 screens 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 • Fully custom sets available, call us at 877-477-7823 for a quote.

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### BONANZA/BARON ADJUSTABLE SUN VISORS
Aerospace construction means they work flawlessly, plus they are very adjustable. Rotate them up and down, turn to cover the side windows and slide them in and out for coverage where you want.

- P/N 05-03434: $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

### JET SHADES™ TINTED WINDOW PANELS
Jet Shades are the only anti-glare, anti-heat removable tinted window shades that fill the Aircraft cockpit side windows and passenger windows completely. Jet Shades reduce heat in your Aircraft so you and your passengers will fly cooler, and more comfortable while in the bright sun. Jet Shades also protect you in the cockpit from harmful UV rays. Jet Shades are made in the USA.

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<td>Diamond DA 40 Canopy Solution Upgrade</td>
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<td>Eclipse 500/550 Cockpit Solution</td>
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<tr>
<td>Eclipse 500/550 Cockpit Solution Upgrade</td>
<td>13-22091</td>
<td>$302.00</td>
</tr>
</tbody>
</table>

### BRUCES INSULATED HANGAR 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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>High Wing, 2 Place</td>
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**Prices Subject to Change Without Notice**
BRUCES CUSTOM WING COVERS

The Wing 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 and are made to fit to slip around each wing tip, cover the entire upper surface of the wing and wrap around the leading and trailing edges. The covers secure under the wing with adjustable straps from the leading edge. The wing covers can also attach to each other with adjustable straps at the leading and trailing edges of the wing under the belly of the plane. We have the ability to also accommodate wing modification kits such as STOL kits, droop tips, and vortex generators. Labeled LEFT and RIGHT for your convenience. Fabrication version can be made. Set of 2.

BRUCES CUSTOM CANOPY COVERS

Canopy Covers help reduce damage to your airplane's upholstery and avionics because of excessive heat, and they can eliminate problems caused by leaking door and window seals. They keep the windshield and window surfaces clean and help prevent vandalism and theft. When requested, it is also sometimes possible to design Canopy covers that can attach to the aircraft fuselage using pop-rivet snap-head screws. At the rear and snap-head screws on the engine cowl. The weather and snap-head screws on the engine cowl. The weather and snap-head screws on the engine cowl. The weather is custom sewn and the corners are trimmed to match the colors of the airplane. The airplane’s registration number can be imprinted onto both sides of the cover for an additional charge. A duffle bag is included with all Canopy Covers. Made from Silver Acrylic Sunbrella or Silver Solution-Dyed Polyester and is lined 100% with a soft and smooth microfiber. The outer material is medium-weight and treated for water resistance, UV resistance and anti-static buildup. The inner lining is a very soft and smooth microfiber to prevent scratching. Does not contain hydrocarbon compounds that can harm Plexiglas windscreens and acrylic finishes. Other colors are available.

Prices Subject to Change Without Notice

BRUCES 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 leading edge of the wing covers to accommodate modular parts. Horizontal Stabilizer Covers for winter use or long-term all year use are usually available, and are normally made from Solution-Dyed Polyester or Acrylic Sunbrella. A Hail Protection version can be made. Although these covers are bulky, they do help protect your main and control surfaces against small to medium-size hail. **Set of 2, Winter Use**
## BRUCE’S CUSTOM ENGINE COVERS

Once the material for each order is cut into its appropriate parts, highly trained sewing machine operators meticulously assemble the products with durable thread, rivets, and canvas trim.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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### BRUCE’S CUSTOM HEATSHIELDS

Heathshield Interior Reflectors are made of a special laminate of metallized polymer film and closed cell foam. Less than 1/8" thick, the Reflectors can roll up and store in a sleeve, yet are stiff enough when flat to stand up against the windshield using the four visors and window frames only. On some designs no Velcro or suction cups are necessary. Heathshields are an excellent short-term remedy for cockpit overheating, but use the Canopy Cover for more effective and practical long term protection. Heathshields should not be used on polarized windows.

<table>
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### BRUCE’S 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.

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</tbody>
</table>

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FUEL MATS – FUEL INDICATORS

POLYURETHANE WING FUEL MAT

This polyurethane wing fuel mat can be easily cleaned with soap and water. Avoid spraying product with silicone or wd-40 type products. This will cause material to absorb 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: -20º - 200º Fuel port: 5” diameter. Durable: impact Non-Marking: Non-Abrasive, UV stable. Exposure to direct sunlight will cause color fading. Fuel Resistant and chemical resistant with the exception of MEK.

SCALE INSTALLED IN FLOAT TUBE

[Image]

Master (10.75”) Includes: Ship/Storage Tube, Use and Calibration Instructions, Universal Scale Installed in Float Tube

FUEL STIKS

Extremely light, high impact plastic tubing with aluminum rings resist damage. Available “Aircraft Specific Scales” can be downloaded and printed from the website. Can easily be calibrated to any tank using the “Universal” scale. A worksheet, written instructions and even an instructional video are available at the website. We will generate an “Aircraft Specific Scale” from your calibration. It’s shipping tube doubles as a “Vented Storage Tube”. This allows any remaining fuel to evaporate between calibrations. The attached foot-long, fluorescent, and weather-resistant reflective streamer makes finding the gauge a snap. It will not fall into fuel tank on most aircraft. 100% Made in the USA outside the tank. Quantities given in both Gallons and Pounds!

FUEL HAWS 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 answer 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 tank. Works with Fuelhawk, or any other 1/2” diameter fuel gauge tube. It also becomes extremely handy when it’s necessary to set the gauge on the wing, as it will stay put and not roll off to disappear into the grass or onto the pavement. Shaped like a set of red pilot wings which makes finding the gauge a snap.

GOCHECK PREFLIGHT 6 IN 1 MULTI-TOOL


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**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 tautline and remove before flight streamer. Heavy duty cross linked construction and durable nylon hand sewn stitching complete the set. Please specify aircraft make, model, & serial number when ordering. Plugs are furnished with free embroidery and pilot tube cover.

Single engine ........... P/N 13-01742 ........... $75.95
Twin engine .............. P/N 13-01743 ........... $148.95

**PROPELLER SLINGS EXHAUST COVERS**
Propeller Slings & Exhaust Covers keep your propeller secure and in place, eliminating any bearing damage caused by a free-spinning propeller with no lubrication. The integral exhaust covers protect the costly turbine wheel from debris & birds. Simple, quick one man operation. Please specify aircraft make, model, & serial no. when ordering. P/N 13-01744 ........... $106.90

**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 05-04077 ........... CALL FOR QUOTE

**ENGINE INTAKE COVER**
Protect your engine from natural hazards which could cause serious in-flight problems. This economical design fits practically every single or twin, even homebuilts. The lightweight, fire-retardant mesh fabric will not blister or melt. After simple one-time installation of mounting hardware, cover snaps into place and secured with Velcro. Folds for easy storage. Complete with mounting hardware & “Remove Before Starting Engine” streamers. Also available: Bib that allows you to cover additional intakes. Engine Intake Cover ........... P/N 7148 ........... $84.85

**KUVR**IT WHEEL COVERS
A vinyl-coated polyester that is fade resistant and California State Fire Marshall approved (#F-2310). The weave breathes and yet provides 85% shade factor from the suns damaging ultra violet rays. It is easy to care for. Simply machine wash and just hang it to dry. The KUVR**IT II Wheel Cover is easy to use. Simply place the cover over your tires and adjust the strap to the desired tightness and lock into place. There are 2 sizes for your convenience: Small fits tire size: 5.00 – 5/15 x 00-6.... P/N 13-03158 ........... $38.50

**REDWING TRAILING EDGE PROTECTIVE FOAM**
RedWing helps prevent aircraft damage and head injures. Just slide the foam onto the trailing edges of ailerons, elevators, rudders or flaps to protect these surfaces while tied down or in the hangar. RedWing is also ideal for protecting landing gear doors, avionics antennas, and winglets. The bright red color reminds the pilot to remove RedWing before flight, and RedWing is reusable and unaffected by UV, water, or oils. Furnished in 5ft. sections which can by easily cut to smaller sections. P/N 13-02566 ........... $25.90

**WICKSHELL**
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 Steerman 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-pack ing tent material which is rain proof and light weight. Installs with two Velcro straps and four elastic cords using plastic fasteners. There is no metal to scratch your finish. Available in Federal Yellow. ........... P/N 13-11618 ........... $219.95

**KOGER SUNSHADES**
The Koger Sunshade was developed to provide protection from the sun while flying an airplane that has a large bubble plastic canopy like the RV-6, RV-7, RV-8, RV-9 and many other types of aircraft.

Key Benefits:
- Retractable to front or rear.
- Lightweight (1oz. for side by side RV models)
- Makes instruments more visible, and the cockpit more comfortable.

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<thead>
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<th>Fits</th>
<th>Description</th>
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<td>RV-6, 6A, 7, 7A, 9, 9A</td>
<td>Standard RV Tip-Up 30&quot; W x 25&quot; L</td>
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<td>RV-6, 7, 9</td>
<td>Standard RV Slider 30&quot; W x 25&quot; L</td>
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<td>RV-6, 6A, RV-7, RV-7A, RV-9, RV-9A, RV-14, Lancair 320, 360, Pulsar - Plusar III, Sonex, Swift</td>
<td>Super RV Slider -34&quot; W x 35&quot; L</td>
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<td>RV-6, 6A, RV-7, RV-7A, RV-9, RV-9A, Lancair 320, 360, Pulsar - Plusar III, Sonex, Swift</td>
<td>Designed for the RV-14, 35&quot;Wx35&quot;</td>
<td>13-20710</td>
<td>$195.00</td>
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<td>Air Tourer AESL T-6, Alisport LLC Sailplane, American Champ 8GGBC, Apis INC Sailplane, Citabria, Cozy III &amp; IV, Dynamic WTP, Evoke Sportstar, Fasa- nation D4, Glassair, NuNventre, Questair, Rans Coyote II, Rans S-7S &amp; S-6, T-18, Team Rocket F-1, Vans RV 4</td>
<td>Large Universal for larger clear bubble canopies with no center structural members 34&quot; W x 35&quot; L</td>
<td>13-05660</td>
<td>$229.00</td>
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<td>Custom made to order shades</td>
<td>13-05681</td>
<td>$257.95</td>
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**TRISOFT WINGTIP BUMPER**
Trisoft Bumpers provide protection for the trailing edge of the wing, delta fins and ventral fins. Each Trisoft Bumper is made of chemical resistant EVA foam and provides ultimate aircraft protection. The Trisoft Bumpers also work great as wing edge identifiers. This helps protect your employees while they are working or walking under the wing. P/N 13-08263 ........... $30.99

**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 tips and, dorsal antennas. Trisoft can be used on personal aircraft, corporate aircraft, commercial aircraft, military aircraft and helicopters. P/N 13-06003 ........... $21.85
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 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 ¼” 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-inset style blade pitot cover, ice and snow can contaminate a perfect system. Some blade pitot covers also cause damage to paint when the sleve is being forced on and off. The highly conspicuous and very durable Plane Sights Blade Pitot Cover is a perfect fit for any aircraft with a blade-type pitot tube or Piper gear extension mast. Properly installed, it’s guaranteed not to blow off, fade in the sun or wear out for at least two years. Fits Piper, Katana, some Rockwell, late Grumman, Lake 250, and all other aircraft with a blade-type pitot tube. (As seen on the 2008 AOPA “Get Your Glass” sweepstakes) 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 ..........$17.50

**PITOT TUBE PLUG (5/8”)** - Aircraft Type: Piston Powered Plane This durable tube plug in its unmistakably conspicous Remove-before-Flight Streamer. ANSI-compliant and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions. The plug is attached to the streamer’s rugged black oxide coated zinc grommet with a galvanized steel ring, and is vented to prevent pressurization damage. This 5/8” Plug Fits Aero Commander, Twin Beach, Bonanza, Cessna 300/400/500, Conquest Series, Grumman, Lear, Mooney, Piper Cheyenne and Navajo aircraft. Weight: 0.04 kg 5/8”/0.625” (15.875mm) ID x 1.85” (46.01mm)...............P/N 13-06019 ..........$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 an easy-on, easy-off solution. ANSI-compliant and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions. The plug is attached to the streamer’s rugged black oxide coated zinc grommet with a stainless steel ring. This ¾” 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)........P/N 13-06018 ..........$14.95

**LIGHT SPORT PITOT PLUG KIT** - Aircraft Type: Piston Powered Plane. Light Sport/Runabout Pitot Plug Kit provides a perfect fit for many homebuilt pitot tubes, light sport pitot tubes, and aircraft fuel vents. The kit comes with several vented plugs so it even works with double-tube systems and is guaranteed not to pressurize your pitot static system. ANSI-compliant and weather-resistant reflective remove-before-flight streamer stands out equally well in daylight or darkness under all weather conditions. The kit comes complete with three different sized pitot tube plugs, a unique streamer, and two rust-resistant coated triangle rings. **WARNING:** CHECK WITH YOUR A&E 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. They protect static wicks from damage on the ground and make wing/elevator tips more obvious, preventing hangar rash. Slide these round style covers on for a light weather resistant fit on Citations and other jets. Weight: 0.04 kg Round, tubular cover, 0.310” x 0.450” x 7.000” Long. “Shock cord lanyard not included” P/N 13-06888 ..........$39.75

**STATIC WICK COVERS (SMALL ID X7”)** - Aircraft Type: Jet. Installed and removed in seconds, Static Wick Covers help prevent delays and inconveniences 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 Bombardier (Challenger & Global Express) or Hawker/Beechcraft and many other jets. If necessary cut with scissors to desired length. Weight: 0.20 kg Fits over static wick part #’s: Chelton 2-17SC-1, Chelton 2-17SC-5, Beechcraft 57699, 8617770, Fits Bombardier, Hawker/Beechcraft and others.................................P/N 13-06777 ..........$59.95

**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 rim rash. Slide these rectangle covers on for a light weather resistant fit on Falcon, Hawker, Beechjet, older Lear Jet and many other static wicks. Weight: 0.21 kg Includes three (3) Static Wick Covers per package Square Poly. 0.75” x 2.50” x 3.50” Long, (in stock) (also available by special request. 5.25” length sleeves) Standard two year warranty applies. “Shock cord lanyard not included”.................................P/N 13-06776 ..........$44.95

**UNIVERSAL AIRCRAFT MARKER** - Aircraft Type: Piston Powered Plane. Highly reflective markers make vulnerable wing and elevator tips clearly visible under all conditions, and their projecting “proximity fuses” warn that something is too close before damage occurs. Fits all aircraft from private planes to large jets. This highly visible and reflective USAF approved marker is vented to prevent pressurization damage. Weight: 0.05 kg Packages: (2) marker pieces, (2) harness pieces, (2) marker fuses, (4) 54” lengths of shock cord with cord hook ends, and four shock cord hook ends for assembly. P/N 13-06003 ..................$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 13-05612 ..................$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 conditons. P/N 13-06830 ..................$39.95

**HI VISIBILITY BOOTSIE PITOT COVER**


Warbirds with “arrow head” type Pitot Tubes (North American, AT-6, SNJ, Vultee BT-13, Grumman F4F Wildcat, F6F Hellcat, B-25 Mitchell, P-47 Thunderbolt, and many others) TAT Probes, Dynon Angel of Attack - Pitot Proves, Pylon mount, Rosemount Pitot Probes P/N 13-12349 ..................$10.95

**WWW.AIRCRAFTSPRUCE.COM**

Prices Subject to Change Without Notice
BANNERS – PITOT TUBE COVERS

AIRCRAFT FOR SALE BANNERS

Designed specifically for sale use, these banners slip right over your prop blades, moving in the breeze to attract attention—but will not rub against painted surfaces. Each banner is 9” x 23”, made of heavyweight rubberized Nylon that is weather-repellent and resists tearing. Sold as a set of 2...

P/N 5412 ..................$27.85

PROPELLER MOUNTED BANNERS

Two 28” x 8”, white printing on red reinforced vinyl. Yellow, blue and white pennants, slides over prop, fastens with velcro.

For Sale ..................P/N 13-06402 $34.75
For Rent ..................P/N 13-06639 $32.75

FOR SALE PROP BANNER

Consists of three pieces. Each prop banner is 11” high X 22” long when mounted. Made of RED vinyl, yellow, blue and white pennants, slides over prop, fastens with velcro. Each prop banner is 11” high X 22” long when mounted. Made of RED vinyl, yellow, blue and white pennants, slides over prop, fastens with velcro.

P/N 13-06014 ..................$38.50

AIRCRAFT SPRUCE CARTRIDGE

These prop cards are great when displaying your aircraft at a fly-in or event. There’s room to fill in your personal information as well as large notes instructing onlookers to enjoy the views of your beautiful aircraft, but keep their hands off. They easily slide on and off the blades of your propeller. If you are organizing an event, these are affordable enough to pick up in bulk and pass them out to all who attend, 8 1/2” x 11”.

P/N 13-12320 ..................$1.35

PITOT TUBE COVERS

Feature an authentic, soft, bright red vinyl - will not fade, mildew resistant, made to Mil-C-20696. “REMOVE BEFORE FLIGHT” Streamer attaches simply with a velcro strap to 5/8” or 1/16” diameter L-shaped pitot tube. Designed specifically for sale use, these banners slip right over your prop blades, moving in the breeze to attract attention—but will not rub against painted surfaces. Each banner is 9” x 23”, made of heavyweight rubberized Nylon that is weather-repellent and resists tearing. Sold as a set of...

P/N 15210 ..................$5.95

SLIP ON PITOT COVER

-Slip fit over 1/4” or 1/2” dia. pitot. Red “REMOVE BEFORE FLIGHT” Streamer attaches simply with a velcro strap to 5/8” or 1/16” diameter L-shaped pitot tube. Designed specifically for sale use, these banners slip right over your prop blades, moving in the breeze to attract attention—but will not rub against painted surfaces. Each banner is 9” x 23”, made of heavyweight rubberized Nylon that is weather-repellent and resists tearing. Sold as a set of 2...

P/N 1520 ..................$5.95

ROUND CESSNA PITOT COVER - This red pitot cover fits round, high-wing Cessna pitot tubes. Grooved fitting releases air pressure as the barometer changes.

P/N 5139 ..................$9.50

PIPER PITOT COVER - This pitot cover is designed to fit the blade style pitot commonly found on Piper aircraft. Small vent hole prevents pressurizing system.

P/N 5740 ..................$15.85

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/N 15200 .................$17.50

DO NOT TOW STREAMER

17” Streamer, attach with Velcro, Color international 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 covers. Heavy duty vinyl is tear resistant.

P/N 13-02380 ..................$6.95

ASA PITOT TUBE COVERS

Fit snugly over standard aircraft pitot tubes, and are vented to prevent pressurizing the pitot static system. Critical to safe operations, the cover keeps dirt, contamination, and insects from entering the pitot tube. A “remove before flight” streamer hangs off the cover as a prominent preflight reminder to pilots. Molded in the United States, the cover uses a heavy plastic material. Made of lightweight rubberized Nylon that is weather-repellent and resists tearing. Sold as a set of 2.

P/N 5412 ..................$27.85

FUEL CAP COVER

The STAY SEALED cap is a patented fuel cap cover that locks onto the existing factory cap and seals to the surface of the wing. Designed and tested against heavy rains, strong winds, high temperatures, and extreme cold. It sealed out melting snow and ice, blowing rain and water from aircraft washing. “To be used anytime the aircraft is stored outside. The device MUST be REMOVED BEFORE FLIGHT.”

Model SSCP 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 SSCP fits the following: Cessna 120, 140, 150, 172, 182, 206, 207, 210. Fitted with the raised metal fuel cap....P/N 05-03668 ..................$48.85

Model SSCP fits the following: Piper Series: PA-28-140, PA-28-160, PA-28-180, PA-28-200, PA-32-260, PA-32-300 fitted with the raised metal fuel cap....P/N 05-03669 .................$48.85

“REMOVE BEFORE FLIGHT” PITOT COVERS

Universal cover.....P/N 13-04396 $12.75
Piper blade cover.....P/N 13-02946 $12.75
3/4 pitot cover.....P/N 13-04395 $12.75
5/8 pitot cover.....P/N 13-04394 $12.75
Sm RBF streamer.....P/N 13-02818 $3.95
Lrg RBF streamer.....P/N 13-02819 $6.50
Nelson RBF Streamer.....P/N 13-04397 $3.50

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 ..................$11.95

REMOVE BEFORE FLIGHT STREAMERS

Red “REMOVE BEFORE FLIGHT” Streamer with white lettering.

2” X 17” ......P/N 13-06238 $5.75
3” X 31” ......P/N 13-11731 $5.50
3” X 21” White on Orange ......P/N 13-16572 $6.95
3” X 21” Black on Yellow ......P/N 13-16573 $7.50
3” X 21” White on Pink ......P/N 13-19013 $6.50

ASA PITOT TUBE COVER - BLADE

This pitot tube cover fits snugly over blade-type pitot systems typically found on Piper Cherokee, Warrior, and Arrow aircraft.

P/N 13-02379 .................$13.95

KEY CHAINS

Remove before flight key chain with white letter REMOVE BEFORE FLIGHT on red banner.

P/N 13-02838 ..................$3.95

Key ring with a white print “I’D RATHER BE FLYING” on blue banner.

P/N 13-02949 ..................$2.95

Key ring with blue writing “I LOVE FLYING” on off-white banner.

P/N 13-02960 ..................$2.95

PROFLIGHT AIRCRAFT KEY CHAINS

ProFlight aircraft personal streamer with attached ring and slogan “I’D RATHER BE FLYING”.

P/N 13-10448 ..................$1.95

ProFlight aircraft personal streamer with attached ring and slogan “I LOVE FLYING”.

P/N 13-10447 ..................$1.95

ProFlight aircraft personal streamer with attached ring and slogan “HAVE YOU CLOSED YOUR FLIGHT PLAN”.

P/N 13-10449 ..................$1.99

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**PITOT TUBE COVERS – EZ FLAP**

**PITOT COVERS**

An inexpensive, yet very effective alternative to other covers and plugs.

The SPC-101 is designed to fit an aircraft with one static port on each side of the aircraft and the SPC-102 is designed to fit an aircraft with two static 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 • Installed at temperatures from -20°F to 110°F

**SPC-101**

- P/N 13-06723 .............................................. $199.85
- P/N 13-06724 .............................................. $219.95

**SPC-102**

- P/N 13-06723 .............................................. $199.85
- P/N 13-06724 .............................................. $219.95

**UNIVERSAL STATIC PORT COVERS**

- P/N 13-01458 .............................................. $5.35

**SMALL STATIC PORT COVER**

- P/N 13-06422 .............................................. $7.95

**PITOT TUBE COVERS**

- Model 4602 • Fits Piper, Katana, some Rockwell, and late Grumman aircraft.
  - P/N 13-06395 .............................................. $9.75

- Model 4935 • Bootie Type, all Naugahyde, white boot, red with white printing, 2” x 16”.
  - P/N 13-06397 .............................................. $9.95

**STREAMERS**

- 5811 “OUT OF SERVICE” • 3” x 24”, yellow printing on red reinforced vinyl with grommet and ring. 2” securing strap with grommet and velcro.
  - P/N 13-06399 .............................................. $9.95

- 5813 “DO NOT TOW” • 3” x 16”, yellow printing on red reinforced vinyl with grommet and ring. 2” securing strap with grommet and velcro.
  - P/N 13-06401 .............................................. $9.50

- 4604 “REMOVE BEFORE FLIGHT” • 2” x 16”, white printing on red reinforced vinyl with grommet and ring
  - P/N 13-06398 .............................................. $4.95

**BRUCES UNIVERSAL CUSTOM PITOT TUBE COVERS**

- P/N 13-06946 .............................................. $499.00
- P/N 13-06947 .............................................. $599.00
- P/N 13-06948 .............................................. $699.00
- P/N 13-06949 .............................................. $799.00
- P/N 13-06950 .............................................. $899.00
- P/N 13-06951 .............................................. $999.00

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**EZ FLAP HANDLE EXTENSION**

Because EZ Flap puts the flap control at the correct location close to the yoke (instead of down on the floor under the panel), pilots can finally remain upright while using the flaps, and stay focused on takeoff/landing, obstacles, terrain, traffic, and instrument scan. No more bending over - no more loss of visibility. EZ Flap improves the performance of the pilot! EZ Flap mounts to the existing aircraft flap handle with no disassembly and no de-rigging in 20-40 minutes, with only two small screw holes. The original aircraft flap control remains fully functional. 100% made in the USA. Full FAA STC-PMA approval on 95% of all US manual flap aircraft.

**CESSNA/PIPER FLAP HANDLE EXTENSION APPLICATIONS:**


**SUPERCUB HANDLE EXTENSION APPLICATIONS:**


**P/N 13-07438 .............................................. $499.00**

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**PITOT TUBE COVER for the following applications:**


**P/N 13-15994 .............................................. $28.75**

**Pitot Tube Cover for the following applications:**

- Cessna: 150, 152, 172, 175, 180/185 Skywagon, 182 Skylane, and 206 Stationair. • Grumman AA1.
  - P/N 13-15995 .............................................. $28.75

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**Prices Subject to Change Without Notice**
PITOT TUBE COVERS

REMOVE BEFORE FLIGHT STREAMER
Red Streamer with white print. Aid as a reminder of preflight for pilots. Ideal for landing gear pins.
P/N 13-18382 .................. $11.75

ROSEMON THERMOMET 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, 605

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. Cessna Citation, Beechcraft King Air, Cirrus, Diamond, Grumman Mooney, Cessna, Piper.
Left .............. P/N 13-18384 ............. $19.95
Right ............ P/N 13-18384-R ............ $19.95

LEARJET PITOT COVERS
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.
Applications: Learjet 25, 31, 35, 36 series
Left .............. P/N 13-18386 ............. $29.95
Right ............ P/N 13-18386-R ............ $29.95

Applications: Learjet 40, 45, 60, 70, 75
Bombardier Challenger: 300, 601, 604
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

PILATUS PC-12 COVERS
High Quality Cover for Pitot Tube. Protects and prevents contamination of the Pitot Tube providing safety to the aircraft systems.
Applications:
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

PLANE SIGHTS REFLECTIVE GEAR PIN FLAG
The Plane Sights 3x18" lime green or red orange reflective XL Remove-Before-Flight banner is designed for long medium to long range business jet gear pins and replacement wide body remove before flight flags. Plane Sights is the only brand of remove before flight flags that are made from ultra violet resistant microprismatic reflective. The brilliantly reflective PVC can also be easily cleaned of landing gear grease with any mild soap and water.
Lime Green .................. P/N 13-21613 ............. $28.35
Red Orange .................. P/N 13-21614 ............. $28.35

PLANE SIGHTS REFLECTIVE GEAR PIN FLAG
Before Flight Pitot Tube Covers. 5/8" or 3/4" ID Vinyl Cover.
5/8" .................. P/N 05-12645 ............. $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 Pilots .................. P/N 05-12660 ............. $9.95

UNIVERSAL REMOVE BEFORE FLIGHT PITOT TUBE COVERS
Before Flight Pitot Tube Covers. 6" or 3/4" ID Vinyl Cover.
6" .................. P/N 05-12684 ............. $19.95
3/4" .................. P/N 05-12684 ............. $19.95

REMOVE BEFORE FLIGHT FUEL CAP COVER
Before Flight 10" Flag with Ring. .................. P/N 05-12661 ............. $7.95

FUEL CAP COVERS
This easy to use removable product will help keep water and debris from getting inside your fuel tank. All do is peel and stick it right on top your fuel cap after landing and remove before your next flight. Set of 2
P/N 13-21885 .................. $49.99

STATIC PORT COVER
This easy to use stick on product will provide full coverage for your Static Port and protect it from all the natural elements.
P/N 13-21884 ............. $26.65

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CONTROL LOCKS

UNIVERSAL CONTROL LOCK
Stainless steel construction with silicone rubber to protect aircraft interior and folds into small package for easy storage. Installs in seconds from the pilot seat and fits most aircraft with a control column. Other control locks are not required like the one Cessna provides. Cannot get your feet on the Pedals to taxi aircraft and keep the elevator in the nose down position. P/N 13-13075.................$279.00

AMC AIRPLANE CONTROL LOCK
Rather than tying your seat belt to your controls, try AMC’s new Airplane Control Lock. This lightweight control lock will stop your control surfaces from moving with the winds and will also prevent damage to your controls such as bending. This new Control Lock is lightweight and easily stored. Airplane control lock cessa or any aircraft with control spacing of 14”-19”. P/N 13-03163.................$87.75

Mooney.............................................$77.95

Cessna 210.............................................$81.95

Cessna 206.............................................$81.95

Skymaster.............................................$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. Disgned for use with control surfaces up to 6-1/2” thick. Locks O.D: 3.9”. P/N 07-01329......................$17.95

PAD-LOK CONTROL SURFACE LOCK
Like it says, a padded lock. Effectively locks control surfaces while the padding compresses to the proper configuration and protects the surface finish. Padding won’t absorb water. Hard-to-miss Dayglo color, plus yarn streamers, Wt. 10 oz. P/N 15-22700.................$17.95

THE CONTROL SAVER
The Control Saver control lock was designed for Piper and Mooney aircraft to protect aircraft controls in high wind gusts. It holds the ailerons in the neutral position and stabilizer in the down position. This control lock is light weight, easy to use and fits in an area as small as your shirt pocket. Sold to thousands of Piper and Mooney owners worldwide. P/N 13-15505.................$39.95

SAF-T-STOP
Saf-T-Stop is an auxiliary seat stop mechanism approved by the FAA for use with Cessna seat track A.D. #87-20-03. Installs easily, sliding over seat track. Approved for: Cessna 150, 152, 170, 170B, 172, R172, 175, 180, 182, 185, 190, 205, 206, 207, 210, 303, 337. Not a seat lock, Saf-T-Stop is designed to restrict rearward motion if the seat lock fails. P/N13-18510....$49.50/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 13-11618..........................$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. Airstream Lock is manufactured using 6061T3 aluminum. The control stick clamping portion has a protective sleeve to prevent damage to special control handles. The latching mechanism is low locking buttons that cannot come loose until released by the pilot which insures the owners that their ailerons and elevators are safe from wind damage. The control lock is red anodized with a “Remove Before Flight” decal, and each unit comes complete with instructions in a 4” x 4” x 12” box. Only weighs 3 1/2 ounces.

PIPER SP / SPORTCRIUSER CONTROL LOCK CL200 LONG
- Eligible Aircraft Models: Eligible Aircraft Models:
  - PiperSport and SportCruiser only. P/N 13-11304.................$76.75

VANS RV12 CONTROL LOCK CL230 LONG
- Eligible Aircraft Models: Vans RV12 only. P/N 13-11319.................$78.75

VANS RV LSA CONTROL LOCK CL100 SHORT
- Eligible Aircraft Models: most Van’s RV’s and many other LSA aircraft, as well as the Stearman PT17. P/N 13-11289.................$83.75

CITABRIA / DECATHLON CONTROL LOCK CL210 LONG
- Eligible Aircraft Models: Aerotrek A200 & A240,ArCam,Alto 100,Breezer ELSA, Bristol, Champion Scout, Citabria, Decathlon & TC100,Evocate Harmony & Sportstar, KitFox Super Sport 7, Lightning LS1, Luscombe,Peregrine FK-9, Phoenix, Ran’s SL-19, Coyote 2, 7-7LS, Remos LSA, Seafay, Spirit, Sting 4, Tecnam P2002 P/N 13-11311.................$78.75

HUSKY CONTROL LOCK CL110 SHORT
- Eligible Aircraft Models: Husky only. P/N 13-21226.................$78.75

ULTIMATE GUST LOCKS FOR RVS
This revolutionary product “The Ultimate Gust Lock” is a solution to that rather troublesome and sometimes challenging task. This product will definitely calm the fears of many RV owners and owners of these wonderful aircraft. After watching, reading, analyzing, researching and waiting for someone to offer up a solution we decided to go to work on this problem.

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV-6 6A 7 7A 9 9A</td>
<td>05-12568</td>
<td>$189.00</td>
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<tr>
<td>RV-4 8A</td>
<td>05-12483</td>
<td>$189.90</td>
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<tr>
<td>RV-10 10A</td>
<td>05-12484</td>
<td>$209.95</td>
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</table>

REMOVE BEFORE FLIGHT AIRPLANE CONTROL LOCK
Piper and Mooney aircraft do not have control locks. That’s why there is now a Control Saver control lock to meet the needs of pilots who fly these planes.

<table>
<thead>
<tr>
<th>Eligible Aircraft Models: Eligible Aircraft Models:</th>
<th>P/N 13-12726</th>
<th>$39.95</th>
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<tbody>
<tr>
<td>PA-28 1968-97</td>
<td>P/N 13-12727</td>
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<tr>
<td>PA28 1997-Current</td>
<td>P/N 13-12728</td>
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<tr>
<td>PA28 1999-97</td>
<td>P/N 13-12729</td>
<td>$39.95</td>
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<tr>
<td>PA-28 61 Bowtie</td>
<td>P/N 13-15505</td>
<td>$39.95</td>
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<tr>
<td>Mooney</td>
<td>P/N 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 cap that slips over the top of the control stick. Allows for bungee tension to be set for a particular model. Not hard bolted so if an outside force against the control surfaces occur, the bungees will absorb the load. P/N 13-10434.................$35.50

Prices Subject to Change Without Notice

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982
**AIRCRAFT LOCKS**

**PROP LOCK CHAIN**
The THEX50 is a “T-HEX” maximum security chain 5 ft in length with hardened 10mm hexagon shaped links. Hexagon shaped case hardened trip heat treated super chain. This heavy duty Prop Lock Chain is the perfect way to insure the security of your aircraft, particularly at remote or foreign airports. The hexagon shaped, heat treated heavy duty chain can endure over 10 tons of cutting force, insuring your aircraft against theft. A black nylon cover over the chain protects your aircraft from the chain when in place. The Prop Lock Chain is 5 feet long and weighs 12lbs. P/N 13-05182 $51.85

**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 13-05141 $83.75

**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>Commander 112 / 114</td>
<td>13-2720</td>
<td>$234.95</td>
</tr>
<tr>
<td>Mooney, Grumman Goose, Maule (Tricycle gear &amp; Seaplane) PA-23, &amp; Grumman American, Myer 200 &amp; Commander200</td>
<td>13-00863</td>
<td>$259.95</td>
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<tr>
<td>Cessna Single engine 150/172's, Helio Courier, 265/295</td>
<td>13-00864</td>
<td>$254.95</td>
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<tr>
<td>Cessna Single engine 180, 206 &amp; 210's fixed &amp; retract gear &amp; Cessna 337</td>
<td>13-00865</td>
<td>$269.95</td>
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<tr>
<td>Cessna Twins except 337 &amp; 310</td>
<td>09-03299</td>
<td>$251.95</td>
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<td>Aerosport, Commander 500, Beech Baron, Bonanza, Duke &amp; 18C-45, Lake L-A-4 (exempt Renegade)</td>
<td>13-27290</td>
<td>$249.95</td>
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<tr>
<td>Cessna Tailwheel, Stinson, Beech Staggerwing</td>
<td>13-28200</td>
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<tr>
<td>Lake Amphibian</td>
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<tr>
<td>Beech King Air</td>
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<tr>
<td>Cessna 310’s</td>
<td>13-28290</td>
<td>$228.95</td>
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<tr>
<td>Aerocraft Chief 508, Taylorcraft BC 12-D, Stinson 108 &amp; 108-1</td>
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<tr>
<td>PA-38</td>
<td>13-28285</td>
<td>$228.95</td>
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<tr>
<td>Maule (Tailwheel)</td>
<td>13-28271</td>
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<tr>
<td>Piper PA-31, Chieftain, Navajo, Chyenne</td>
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<td>Socata (Trissiard), Grumman Widgeon</td>
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<td>Seawind</td>
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<tr>
<td>Dehaviland Beaver</td>
<td>13-00866</td>
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<td>Cessna Twins (except 337 &amp; 310)</td>
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<tr>
<td>Piper Malibu</td>
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**STICK CONTROL AIRCRAFT**

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<td>J3 w/Shin Knocker Tubes</td>
<td>13-00871</td>
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<td>J-4</td>
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<td>Piper PA-12</td>
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<td>Piper PA-14</td>
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<td>Piper PA-14/17</td>
<td>13-00876</td>
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<td>Piper PA-12 &amp; J3 Shin knocker</td>
<td>13-00877</td>
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<td>Piper PA-20</td>
<td>13-00878</td>
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<tr>
<td>Champ &amp; Citastra</td>
<td>13-00879</td>
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<tr>
<td>Husky, Pitts</td>
<td>13-00880</td>
<td>$299.95</td>
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<tr>
<td>Mako</td>
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<tr>
<td>Nanchang CJ-6</td>
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<td>Swift</td>
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<td>RV-6</td>
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<td>RV-8</td>
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<td>Kit Fox</td>
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<td>Waco</td>
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<td>Lancair IV</td>
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<td>Luscombe</td>
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<td>Bellanca</td>
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<tr>
<td>YAK 52</td>
<td>13-11871</td>
<td>$266.95</td>
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</table>

**YORK ACCESSORIES**

Don’t throw away warning flag (included with each Gust-Lok™ but also sold separately) P/N 13-00869 $21.50

**PROPLOCK**
PropLock is a simple, yet effective anti-theft device that can be easily installed on any single or twin engine aircraft. Made of high quality stainless rope coated with bright red PVC. PropLock provides effective protection against unauthorized use of your aircraft.

Included: • 1 PropLock • 1 Remove Before Flight Carrying Pouch.
Features: • Hardened Steel Components • Red PVC Coating • Rust proof • High Visibility • Easily Installed • Nickel Plated Lock Assembly • Effective. P/N 13-20147 $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 $266.95

**SKYLOK**
Skylock is an inexpensive throttle lock for aircraft with Cessna type push-pull throttles. The device will accept shafts up to .375” diameter, and is made of heavy-gauge cadmium plated steel. Skylock affords great peace of mind to aircraft owners at very little cost. Just put in place after every flight, secure with your own favorite padlock, and your throttle cannot be moved! Simple, but it works. P/N 13-18500 $13.95

**ANTI-THEFT LOCK FOR BONANZAS**
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

**AIRGIZM0 UNIVERSAL GUST LOCK**
The AirGizmo 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 rugged 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 $37.50
3 Pack P/N 13-18457 $109.75

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**FIRE EXTINGUISHERS — RESCUE EQUIPMENT**

**H3R AVIATION FIRE EXTINGUISHERS**

The FAA recommends and/or requires Halon fire extinguishers on aircraft. H3Rs 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 extinguishing agent that can be emitted in all directions. Fire extinguishers include a mounting bracket.

**DISPOSABLE, LOW-MAINTENANCE HALON 1211-1301 BLEND**

- Contains a proprietary blend of the “liquid streamagent,” Halon 1301, and the gaseous “total flooding agent,” Halon 1211. The blend’s power lies in the Halon 1211, which is both a fire-fighting agent and a propellant. Lightweight aluminum canister Disposable. Tested to ANSI/UL 711 and UL 1093. Meets DOT requirements. Meets the requirements in Advisory Circular 20-42C, “Hand Held Extinguishers for Aircraft” and/or NFPA 408, “Standard for Aircraft Hand Portable Fire Extinguishers” 12-year shelf life. Fire extinguishers include a mounting bracket.

**RECHARGEABLE, STURDY INDUSTRY-STANDARD HALON 1211**

- Required on commercial transport aircraft. Although classified a “liquid streamagent,” Halon 1211 also performs remarkably well as a “total flooding agent,” seeking out and extinguishing fires in inaccessible places. A 6-year maintenance and 12-year hydrostatic test are required. Rugged steel cylinder. Pressure gauge enables easy confirmation of charge. Tested to ANSI/UL 711 and UL 1093. Meets DOT requirements. Meets the requirements in Advisory Circular 20-42C, “Hand Held Extinguishers for Aircraft” and/or NFPA 408, “Standard for Aircraft Hand Portable Fire Extinguishers”.

**FIRE EXTINGUISHER BRACKETS**

<table>
<thead>
<tr>
<th>Bracket</th>
<th>Description</th>
<th>Part No.</th>
<th>Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>BKT1000</td>
<td>Bracket for the RT-A400 Fire Extinguisher</td>
<td>13-06167</td>
<td>8-10 ft</td>
<td>$165.00</td>
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<tr>
<td>BKT600</td>
<td>Bracket for the RT-A600 Fire Extinguisher</td>
<td>13-06166</td>
<td>8-10 ft</td>
<td>$165.00</td>
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<tr>
<td>BKT1200</td>
<td>Bracket for the RT-A1200 Fire Extinguisher</td>
<td>13-06168</td>
<td>8-10 ft</td>
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<tr>
<td>845</td>
<td>Bracket for the A344T Fire Extinguisher</td>
<td>13-06170</td>
<td>8-10 ft</td>
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<tr>
<td>845C</td>
<td>Bracket for the A344TC Fire Extinguisher</td>
<td>13-06171</td>
<td>8-10 ft</td>
<td>$11.50</td>
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<tr>
<td>8175</td>
<td>Bracket for the C352TS, C352TSC, C354TS Fire Extinguisher</td>
<td>13-06172</td>
<td>8-10 ft</td>
<td>$16.50</td>
</tr>
</tbody>
</table>

**H3R BILLET MOUNTS**

H3R Performance hand held 1 lb. and 2.5 lb. fire extinguishers come standard with aviation style mounting brackets. Stylish and versatile billet mounting accessories are also available. Band clamps fit 2.6” or 3.0” diameter fire extinguishers, and can be combined with the flat surface or either of the two roll bar mounts. Available in polished and brushed finishes. One year limited warranty. Brushed - Band clamp for 2.5 lb. fire extinguishers.................................P/N 13-06067 $63.85

**SAFECRAFT FIRE EXTINGUISHERS**

A feature not found on other extinguishers is the “swivel” head design. The discharge head can be rotated to align the pull cable, which provides more installation flexibility. The aluminum cylinder is U.S. DOT approved and is capable of being refilled by Safecraft Inc. The extinguisher will accept either green, white, or black fire extinguisher nameplate. Designed for use with H3R Performance vehicle seat mount. Weighs a scant 15 oz!

**RESCUE LASER FLARE MAGNUM™**

- Hand-held nighttime laser signaling device that provides a convenient, effective way to signal a rescue party by day, or a distress signal at night, by day or night, by day. Completely non-hazardous. Standard 12v battery 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 GMDDSS HANDHELD VHF RADIO**

The Ocean Signal range of survival craft VHF hand portable radiotelephones exceed the requirements of IMO, SOLAS and GMDDSS. Lithium Polymer rechargeable battery option available. Rapid charging makes for everyday normal use. Fully waterproof, even 40C thermal shock. High efficiency transmitter for maximum battery life. Rugged design exceeds IMO SOLAS and GMDSS requirements. Lithium primary battery for emergency use. Novel battery protection tab protects from inadvertent use. Battery classified as non-hazardous for shipment. Battery provides in excess of 16 hours typical operation, even at -20°C. (10% Tx, 10% Rx, 80% Squelched). Laser etched key legends for durability. High contrast, backlit LCD and keypad. Rugged accessory socket option; waterproof to IP68 for use with headsets, helmets, fit mikes, etc. 4 scanning modes, D/W, T/W, scan and memory scan. 21 simplex channels according to IMO SOLAS and GMDSS. Lithium Polymer rechargeable battery option available with rapid charger, for everyday normal use. Fully waterproof, even 40C thermal shock. High efficiency transmitter for maximum battery life. Rugged design exceeds IMO SOLAS and GMDSS requirements.

**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 prediffring polymer, which will react instantly to any source of heat or fire. This line (heat detector) is connected to reservoir containing fire extinguishing agent: hexafluoropropane (Halocarbon). When the heat detector breaks, creating a mini sprinkler, directly over source of fire or heat, extinguishing it instantly. In a moment of activation the system closed circuit switch collapses sending a signal informing of fire. For experimental aircraft only. Ask for status of pending STCs.

**H3R QUICK RELEASE FIRE EXTINGUISHER BRACKET**


**RECHARGEABLE, DURABLE EPA-APPROVED HALOTHREN™**

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. The Ocean Signal range of Halotron 1 fire extinguishers: one FAA-approved unit for aircraft use and one wheeled unit for the flight line/ramp. These rechargeable extinguishers have pressure gauges and require a 6-year maintenance and a 12-year hydrostatic test.

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**Prices Subject to Change Without Notice**
**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, Hydrogen Chloride, and Hydrogen Sulfide. Lightweight and compact. One size fits all. Smoke hood easily comes out of its 6" x 6" x 1" vacuum sealed bag - fold lines for use in seconds. There is no frizz which allows the smoke hood to be put on quickly for panic situations. The rubber seal easily slips over your head and seals - not allowing any smoke through. The smoke hood provides 360 degree vision and 20 vital minutes to escape a smoke-filled room.
P/N 13-11343 ........................................ $189.00

**POCKET SMOKE MASK**
NASA graded high temperature resistance Polyamide Film resists heat up to 932 degrees The seven layer filter stops and blocks toxic gases made from non-woven and activated carbon fibers Filters more than 20 minutes of toxic smoke from fire. One size fits all: Adults, Children and Infants. Designed to protect user from smoke in the event of a fire. Simple to use, easy to store. Fits in brief case, purse, carry on luggage. Hood allows full 360 degree sight, talk and hearing capability. Heat Resistant – resists heat up to 932 degrees. Provides 20 minutes of filtered breathable air. Five year shelf life.
P/N 13-17691 ....................................... $39.95

**IEVAC SMOKE MASK / FIRE HOOD**
The IEVAC Smoke Mask/Fire Escape Hood is the only smoke/ fire hood certified to the American Standard ASTM E2952-14. It protects against fire-related gases including carbon monoxide, hydrogen cyanide, smoke, & hydrogen sulfide. The IEVAC contains a HEPA filter that removes more than 99.97% of sub-micron particles such as ebola, anthrax, smallpox, and radioactive particles. One universal size can be put on in under 30 seconds.
The hood features easy-to-breathe dual filters and is compact, lightweight, and vacuum sealed in a foil bag for a long shelf life. Its unobstructed field of view can be used with eyeglasses, beards, and long hair.
Mask......................................................P/N 13-18188 .................................$189.99
Belt Pouch..............................................P/N 13-18442 ......................$17.99

**EAM AIC-35 UNIVERSAL LIFE PRESERVER**
EAM’s Universal Series Life Preserver is designed with an open area collar to be placed over the head and onto the neck and shoulder area, so that the vest rests on the chest of the wearer over 35 lbs. The vest is secured to the wearer using a harness strap. Inflation is accomplished by either CO2 or original 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 ..................$58.75

**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 standard. Inflated Buoyancy: 35 lbs. minimum. Approvals: USA FAA TSO-C15f; German LBA Approval No. 40.321/33; United Kingdom CAA Approval No. AR01445. Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity: Functional Range: Up to 95% Relative Humidity Functional Range: Up to 70% Relative Humidity Altitude: -2000 to 45,000 feet above sea level
5 yr. Passenger Yellow .... P/N 13-12677 ....... $55.75
10 yr. Passenger Yellow .... P/N 13-12685 ....... $61.75
5 yr. Crew Orange ............. P/N 13-12678 ...... $55.75

**EAM UXF-35 LIFE VEST**
This single cell vest is the lightest weight aviation vest in the world, weighing only 0.9 lbs (410 grams). 5 year frequency of inspection comes standard. 10 year version available. TSO-C15f Approved. Inflated Buoyancy: 35 lbs. min. Temperature: Functional Range: -40 to 140°F (-40 to 60°C); Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity: Functional Range: Up to 95% Relative Humidity Storage Range: Up to 70% Relative Humidity Altitude: -2000 to 45,000 feet above sea level.
UXF-35 ........................................P/N 13-12679 .......$49.75
UXF-35 (10 year) .............P/N 13-12684 ......$54.80

**EAM BRAVO LIFE VEST**
This continuous wear, yoke style life vest is ideal for helicopter pilots or anyone flying long distances over open water. Includes a 2-inch, extra wide inflatable webbing for comfort. For confident, functional range of motion without restriction. Equipped with water-activated light, retro-reflective tape and a whistle. Optional storage pouches attach to the waist strap to hold signal kit or EPIRB. Easy self-inflating, CO2 inflating, Functional Range: -40 to 140°F (-40 to 60°C); Storage Range: 0 to 120°F (-17.8 to 48.9°C) Humidity Functional Range: Up to 95% Relative Humidity Storage Range: Up to 70% Relative Humidity Altitude -2000 to 45,000 feet above sea level ..........................................................P/N 13-12680 .............$242.95

**REVERE AQUA LIFE JACKET LIGHT**
The AQ40S is a compact flashing life jacket light, automatically water activated by its integral sensors or manually. Its unique size and shape, makes the AQ40S ideal for a variety of life jackets.
Sensor Activated............. P/N 11-14277 ...... $20.00
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 13-12685 .............$42.75
Without Co2.....................P/N 13-12778 ...........$92.75

**SURVIVAL PRODUCTS LIFE RAFTS**
Perfect for general aviation. Small and compact it fits in a lightweight valise 4’ x 12’ x 14’ and weighs only 12 lbs. But don’t be fooled by its size, price or weight. This raft will do the job for you under the most adverse condition. It provides a fresh water buoyancy of 190 lbs. per person and a deck area of 3.6’ per person which exceeds all Govt. standards. Inflated it 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. Every raft is pressure tested and all seams and adhesive bonds rigorously checked prior to release. Raft includes sea anchor, ballasting 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 Raft........................ P/N 13-31610 .......... $1,893.00
Non-TSO’d 6-13 Person Life Raft .......... P/N 13-31660 .......... $2,037.00
Non-TSO’d 4-6 Person Basic Raft w/o canopy ... P/N 13-31670 .......... $3,217.00
TSO’d 4-6 Person Raft w/hood ........ P/N 13-31690 .......... $3,388.00
TSO’d 4-6 Person Raft w/121 equip .......... P/N 13-31700 .......... $2,899.00
TSO’d 4-6 Person Raft w/135 equip .......... P/N 13-31710 .......... $4,065.00
Non-TSO’d 8-12 Person Basic Raft w/o canopy ... P/N 13-31715 .......... $4,238.00
TSO’d 8-12 Person Raft w/135 equip .......... P/N 13-31735 .......... $4,392.00
TSO’d 8-12 Person Raft w/121 equip .......... P/N 13-31745 .......... $3,674.00
TSO’d 8-12 Person Raft w/135 equip .......... P/N 13-31755 .......... $5,408.00
TSO raft with FAR91 kit 6M ............ P/N 13-05861 .......... $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 includes: All of above plus: utility knife, survival manual and sponge. Far 135 Kits included: all of above plus: magnetic compass, eight pint desalter, fishing kit, 75 ft. retaining line, two paddles and radar reflector.
Far 91 Emergency Kit .............. P/N 13-31620 .......... $528.00
Far 121 Emergency Kit ............ P/N 13-31630 .......... $696.00
Far 135 Emergency Kit ............ P/N 13-31650 .......... $1,129.00

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

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*Prices Subject to Change Without Notice*
LIFE RAFTS – LIFE VESTS

REVERE AERO COMPACT LIFE RAFTS

Ideal for general aircraft, the Aero Compact series offers an enhanced level of safety for over-water flights. With double 200 lb. ballast pockets, the Aero Compact enhances stability in the roughest of sea conditions. Equipment Pack Contains: 2 Red Hand Flares - USCG/SOLAS, Bailier, Signal Mirror, Paddles, Repair Kit, Seasek Tablets, Water Tight Flashlight, Extra Flashlight Batteries, Whistle, Sponges, Floating Knife. Specifications: Weight: 13 lbs • Dimensions - Packed (LxWxH): 14 x 9 x 5. *Neither Canopies or Equipment Packs are available for 2-Person Aero Compacts.

2 Person ............................................................. P/N 11-09399 $1,165.00
4 Person ............................................................. P/N 11-09401 $1,467.00
4 Person Canopy .................................................. P/N 11-09402 $1,866.00
4 Person Canopy and Standard Kit ...................... P/N 11-09403 $2,014.00
4 Person Canopy and Standard Kit Plus .............. P/N 11-09404 $2,985.00
4 Person Canopy and Deluxe Kit ......................... P/N 11-09405 $2,468.00

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 aloft. Offers a spacious 4 square feet per person. Inflatable floor, stowage pockets, zippered windows, flashing strobe, extra large ballast pockets, an extensive equipment pack including USCG/SOLAS flares plus much more. If serviced according to manufacturer’s specs, the Aero Elite offers a 12 year warranty.

4 Person ............................................................. P/N 11-09409 $2,995.00
6 Person ............................................................. P/N 11-09411 $3,185.00
8 Person ............................................................. P/N 11-09412 $3,295.00

SWITLIK INFLATABLE LIFE RAFTS

The Switlik ISPLR brings advanced military design and mission-proven durability to a single place life raft available for mariners and pilots who are serious about their personal lifesaving equipment. Fully reversible. The unique U-shaped design allows the raft to be fully reversible, allowing quick, easy entry from the water - whichever side is up when it automatically inflates. The ISPLR’s low slug floor design allows seating at a slight recline lowering the center of gravity well below the waterline, increasing stability in rough waters. Zip to the elements. Twin zippers, located on either side, allow you to partially close the canopy, keeping the elements out while providing great ventilation.

Brick Valise, Hermetically Sealed w/Floor .......... P/N 13-18417 $1,250.00
Brick Valise, Hermetically Sealed ................. P/N 13-18418 $1,050.00
Soft Valise, Loose Pack ...................................... P/N 13-16033 $999.00
Soft Valise, Loose Pack w/Floor ....................... P/N 13-18419 $1,199.00
Belt Pack, Hermetically Sealed ...................... P/N 13-18420 $1,299.00

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 pocket-free faces, the Aero Compact enhances stability in 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, Bailier, Signal Mirror, Paddles, Repair Kit, Seasek Tablets, Water Tight Flashlight, Extra Flashlight Batteries, Whistle, Sponges, Floating Knife. Specifications: Weight: 13 lbs • Dimensions - Packed (LxWxH): 14 x 9 x 5. *Neither Canopies or Equipment Packs are available for 2-Person Aero Compacts.

Part No. Canopy Survival Kit Rated Capacity Dimensions (LxWxH) Wt. Price
13-16560 Radar Reflective Survival Kit 4 5x13x9/7/8 lbs $1,822.00
13-16561 Radar Reflective Service Kit 4 15x13x8/3/8 lbs $4,516.00
13-16562 Standard Survival Kit 4 15x13x9/3/8 lbs $4,516.00
13-16563 Radar Reflective Kit with water 4 15x13x8/5/8 lbs $4,791.00
13-16565 N/A 5 15x13x20/5.8 lbs $2,789.99
13-16568 Radar Reflective Surv Kt 2 27x8/5/8x5/4 lbs $3,065.00
13-16564 Radar Reflective Surv Kt 6 33x16x7/57 lbs $4,264.00
13-16567 Radar Reflective Surv Kt 9 26x14x8/55 lbs $5,614.00
13-16559 Standard Surv Kt 9 26x14x8/55 lbs $6,066.00
13-16566 N/A 12 30x10x9/41/5 lbs $6,324.00

SEE WWW.AIRCRAFTSPRUCE.COM FOR A COMPLETE SELECTION OF EAM SURVIVAL KITS

EAM TITAN XF LIFE VEST

The TITAN XF is carefully designed to offer advanced protection for crew aboard an aircraft during over-water flight. Created with a heavy-duty front zipper and a fixed mesh back, the TITAN XF remains securely fastened throughout flight.

Blue With D Rings ...................... P/N 13-12961 $353.00
Blue Without D Rings .............. P/N 13-12959 $339.00
Orange With D Rings ............. P/N 13-12961 $353.00
Orange Without D Rings ........ P/N 13-12961 $339.00

SWITLIK CPR LIFE RAFT WITH PART 91 KIT

SWITLIK’s CPR is designed to be a high quality, light weight, best in class coastal life raft, with a convertible canopy system, large, fast deploying water ballast bags and heat sealed construction. The CPR provides 1,140 lbs of inflated buoyancy and 19.6 sq. ft of floor area and offers excellent ventilation as well as total protection from the elements. ................. P/N 13-19317 $4,599.00

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
U.S. Coast Guard Approved
• Inflated Dimension: 22” x 21”

The ergonomic design conforms to the body to provide a secure and comfortable fit and is backed with Mustang’s neoprene Comfort Lining(TM) to reduce chafing when worn against the skin. The PFD operates by manual inflation, meaning it won’t inflate unless you pull the activation cord. Easy to wear and maintain, it inflates to provide 35lb buoyancy, more than twice the flotation of a traditional foam PFD.

Features: • Made with DuPont® Nomex® N303 Fiber: its thermal technology helps protect against hazards associated with electric arcs and flash fires including intense heat and flame. It is protection that’s built into the fiber itself. So, it can never be washed out or worn away. • Sewn to Military Specification FNS/PD96-17 (MIL-C-83141A) • As Worn By All US Flight Crews • Flame-Resistant Material • Two-Way Zipper with Pull • Six Primary Pockets • Adjustable Waist Belt with Velcro Fastener • Knife Pocket on Left Inseam • Pen/Pencil Pocket on Left Sleeve • Gusseted Back • sage Green and Tan Flight Suits are Near Infrared (NIR) Compliant

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EAM GENERAL SURVIVAL KIT

This kit contains equipment for survival and search/rescue aids for use by aircraft crew and passengers after an emergency landing in uninhabited terrain. Collection of equipment designed for survival and in case of an emergency.

P/N 13-12833 $365.00

INFLATABLE BELT

Features include reflective tape on the bladder for greater visibility, 2” deluxe web belt with buckle, and single point indicator window. Inflates in seconds to over 35 lbs. of buoyancy. One size fits adults over 80 lbs. with 30 - 52” chest size. Will not inhibit your range of motion while hunting or fishing.

U S Coast Guard approved Type III. Rearm kit 38MRK.

Specifications: 35 lbs. of buoyancy (over 150 newton) • Equipped with single point indication of arming status • Reflective tape on cover and bladder for greater visibility • Safety whistle attached to bladder • 2” deluxe web belt with buckle • USCG Approved Type III • One size fits adults over 80 lbs. P/N 14-00681 $138.95

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, 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.

- Temperature rating: Comfort: -12°C, Extreme: -17°C
- Compactly packed size: 14 in. (36 x 36 cm.) • Open Size: Length: 86 in. (218 cm.) • Width: 92 Oz. (2608 Grams) • Width: 87" • Width: 85 oz. • Width: 87" • Pack Size: 7 x 9" • Fill: Softie® • Shell: Paratex (micro) with Reflectatherm • Liner: Paratex (light) • P/N 13-12457 $119.00
- Temperature rating: 36°F to 27°F (2°C to -3°C) • Length: 87" • Weight: 56 oz. • Width: 30-34" • Pack Size: 9 x 10" • P/N 13-12459 $159.00

MODEL 5
- Temperature rating: 3°F to -10°F (-15°C to -20°C) • Length: 87" • Weight: 86 oz. • Width: 30-34" • Pack Size: 10 x 13" • P/N 13-12461 $199.00

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## 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. 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.

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<td>EV-35 Orange</td>
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### SWITLIK X-BACK AIR CREW LIFE VEST

The aptly named X-Back is ergonomically fitted to your shoulder contour for a perfect fit. As accessories are added the weight is distributed over your shoulders and off your neck for vastly improved comfort. The adjustable X-Back straps provide enough range making it one size fits all. The MOLE (Modular Lightweight Load-Carrying Equipment) system lets you customize your vest with the accessories you need. The contoured cut of the MOLE 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.

<table>
<thead>
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### SWITLIK AVIATION LIFE VEST AV-35H


### SWITLIK AVIATION LIFE VEST AV-200

The Switlik AV-200 is the latest advancement in airline life vests. Offering airlines a lightweight, compact and inexpensive vest while meeting all the safety features required by the FAA. The AV-200 donning style features a single waist strap with a single adjusting buckle. Meets FAA/TSO-C-13b Approval.  5 Year.............. P/N 13-18411  $49.99  10 Year................... P/N 13-18414  $55.75

### SWITLIK INFANT LIFE

The ILV-35 is a dual chamber, 23-pound buoyancy Infant Life Vest. (FAA/TSO-C13d defines “infant” as a wearer with a weight less than 35 pounds). The underarm configuration allows this vest to be used by wearers whose shorter necks prevent use of the standard “yoke-type” vest.  2 Year.................. P/N 13-18409  $89.99  5 Year.................. P/N 13-18412  $92.99  10 Year.................. P/N 13-18415  $97.99

### EAM UXF-35 LIFE VEST (10 YEAR)

This single cell vest is the lightest weight aviation vest in the world, weighing only .9 lbs (410 grams). 10 year frequency of inspection. Standard 5 year version also available (P/N 13-02255). TSO-C13b Approved. Passenger Yellow........ P/N 13-12684  $54.80  Crew Molten Orange. P/N 13-21624  $56.75

### SWITLIK X-BACK BASIC LIFE VEST BLUE

The X-Back Basic incorporates the same fit, adjustment and overall comfort users have come to expect from the Switlik X-Back, with the addition of two permanently attached all-in-one pockets in lieu place of the MOLE vest attachment loops. This new vest is intended to be a modern version of Switlik’s previous HV-35 Helicopter Vest. This vest is for users who do not need the MOLE system and its accessories. The pouches 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  $339.00

### SWITLIK ALL PAX LIFE PRESERVER BLUE

Whether outfitting a personal aircraft, or a fleet of passengers, the SWITLIK ALL-PAX life preserver is a perfect solution. The ALL-PAX Life preserver has maximum adjustment capability to fit the largest range of size, and provides sufficient flotation for children and adults making it a great product solution for a variety of passengers. Designed for easy donning and constant wear, the ALL-PAX passenger life preserver is perfect for over-water flight protection. Color: Blue. P/N 13-18741  $269.00

### SWITLIK X BACK LEG STRAPS

Quick donning adjustable leg straps are neatly stored using the Velcro™ ties making them a clean and simple accessory to have. P/N 13-12691  $47.99/pr.

### SWITLIK X BACK MOBILE PHONE POCKET

Safe, secure and easily accessible cell phone holster fits all popular models. P/N 13-12692  $24.99

### SWITLIK X BACK BUDDY CLIP

When ditching your aircraft it’s important for survivors to stay together. The Switlik Buddy Clip allows you to quickly tether yourselves together via a 6 foot (1.8 m) 550 lb (250 kg) test line with a CRES snap hook. When not in use it is neatly packed into a nylon pouch. The pouch is designed to be attached with snaps to the MOLE system and by dead ending the buddy line loop directly to the MOLE Loops as a back up. P/N 13-12693  $24.99

### SWITLIK X BACK ALL IN ONE POCKET

The All-In-One pocket allows you to organize all your equipment into one area. Complete with two zipper pockets, interior MOLE straps, interior compartments, and a conveniently located pen holder on the outside. Available in left and right. Right Side........ P/N 13-12694  $49.99  Left Side............. P/N 13-12695  $49.99

### SWITLIK X BACK BOTTLE HOLSTER

The Switlik HEEDS/ HABD Holsters are specifically designed to be mounted on an angle, readily accessible and unobstructed by safety restraints. This ideal location reduces fatigue by keeping weight off your neck. P/N 13-12689  $72.99  P/N 13-12690  $51.99

### ION FLASHLIGHT FIRESTARTER™

During outdoor adventures, flights over remote areas, or in any emergency survival situation, there are two pieces of equipment that you never want to be without, a flashlight and a firestarter. Solo Scientific combined the two into one lightweight, compact, powerhouse of a product called the ION Flashlight Firestarter™. The Ion Flashlight Firestarter™ is a flashlight, a firestarter, a magnetic tool, has a safety mechanism, is knurled for grip, water proof, shock resistant, and can even be used to cautery wounds in the field (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
SNUGPAK SOFTIE ELITE 3 SLEEPING BAG
Equipped with the unique easy to deploy EPS Expandable Panel System and its own sturdy compression stuff sack. Specifications: • Temp. Rating: Comfort 58°F / Low 44°F (-5°C / -20°C) • Weight: 5.26 oz / 150 g • Pack Size: 9" x 9" (fully compressed) Black P/N 13-08780 $194.65
Olive P/N 13-08779 $194.65
Olive/Black (reversible) P/N 13-08781 $211.65

SNUGPAK SOFTIE ELITE 4 SLEEPING BAG

SNUGPAK JUNGLE BAG SLEEPING BAG
The Jungle Bag is an ideal sleeping bag for tropical conditions. Travelsoft Insulation was selected and chosen for its exceptional performance in hot and humid conditions. Concealed roll away mosquito netting which can be zipped over the face. Specifications: • Temp. Rating: Comfort 45°F / Low 36°F (7°C / -2°C) • Weight: 53 oz • Length: 66" • Chest: 60" • Color: Olive • Pack Size: 9" x 9" (fully compressed) P/N 13-08777 $98.00

PROFORCE DRI-SAK
Store your sleeping bag, clothing, and any other items you want to keep dry in a Dri-Sak™. They are seam taped, nylon with a TPU Film Lamination to ensure protection if your gear takes an unexpected dive into the water. They are a great addition that can be used in conjunction with any of the Snugpak® backpacks or any other backpacks. Not intended to be submerged for extended periods of time. Roll-top closure must be closed correctly (recommended rolling 3 times and buckled to keep contents dry). Contact with abrasive or sharp objects can damage and/or compromise the integrity and waterproofness of our Dri-Sak bags. D-Rings for securing if necessary. Medium - Dimensions: 6.75" x 18.125" / 17 x 46 cm. Volume: 8 liters. Weight: 2.59 oz / 60 g. Olive P/N 13-08784 $20.00
Black P/N 13-08785 $20.00
Coyote P/N 13-08786 $20.00
Large - Dimensions: 8.5" x 20.75" / 22 x 53 cm. Volume: 13 liters. Weight: 3.17 oz / 90 g. Olive P/N 13-08787 $24.00
Black P/N 13-08788 $24.00
Coyote P/N 13-08789 $24.00

PROFORCE PORTABLE WATER FILTRATION RADIOLOGICAL REPLACEMENT FILTER
Portable water filtration system replacement filter for the 28oz and 38oz portable water bottle and canteen. P/N 13-12002 $47.85

PROFORCE LENSATIC COMPASS
Lensatic Compass is great for anyone’s survival bag to help one if the situation arises where they are separated from their group, lost their way on the trail or find yourself in a dire drastic survival situation. P/N 13-12003 $24.95

PROFORCE MAP COMPASS
Map Compass features include: 3 scales, Liquid Filled, Map Symbol, Drawing Holes, Lanyard included, Acrylic clear base w/roller, Rotating Rings, Index lines, and Magnifier. 1.52 oz. 5.51 x 2.36 x .41. 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 20D rip-stop polyester top and base fabric. Quality ultra-lightweight, vertically drilled 14kg/m3 PU foam core for lasting performance and full inflation. TPU membrane for air-tight seal. Easy Valve can be locked while adding air by mouth. Mats supplied with stuff sack matching upper fabric, retaining band and repair kit. Size: 72" x 20" x 1" (1830 x 510 x 25mm). Weight: 18 oz (530g). Specifications: • Temp Range: 5°F to 130°F (-15°C to +55°C) • Color: Olive/Black (reversible) • Compactness: 10.25" x 4.75" mid-folded (260 x 120mm) P/N 13-10253 $84.15

PROFORCE EMERGENCY SURVIVAL BAG
The NDUR Emergency Survival Bag comes in a small compact packable size but yet opens into a full sized sleeping bag that will fit a fully clothed adult. It is made of a strong insulating material which reflects back 90% of the user’s body heat. It not only helps to provide protection in various weather conditions but also prevents and assists treatment of Hypothermia. P/N 13-08798 $8.50

PROFORCE COMBAT CASUALTY BLANKET
The NDUR Emergency Survival Blanket is made of strong insulating materials that reflect 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

SNUGPAK® IONOSPHERE
The Ionosphere 2™ by Snugpak® is an extremely small and compact 1 person tent. The Ionosphere™ has a very low profile and is great for those looking for a 1 person tent to keep out of the elements. Just like The Bunker™, the Scorpion 3™ and Scorpion2™ the Ionosphere™ also too has a 5000mm PU Coated Fly. The Ionosphere™ has a single entry point, No-See-Um-Mesh and all seams are seam taped. A very impressive small compact tent by anyones standard. 1 Door, All seams are taped Alloy Stakes (14 + 2 Spare Stakes), Comes with a Repair Kit to allow for repairs while on the move if needed. P/N 13-10260 $194.65

SNUGNUT
The Snugnut is an insulated hat and earmuffs in one. Constructed from the same high performance fabrics and Softie insulation used in our high performance sleeping bags this UK made deerstalker style hat is the ultimate in both day and night cold weather protection for your nut (AKA, Head) and ears. Black P/N 13-10267 $44.25
Olive P/N 13-10268 $44.25

PILE PANTS
Temperature: 23°F / 14°F -5°C / -10°C. Team up these pile lined Paratex Light pants with either the Snugpak® Pile Smock or the Pile Elite Smock for an exceptionally warm wicking base layer system. Designed to be worn next to the skin to maximize the moisture management properties. Weights: 23oz to 27oz (Depending on Size).

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SNUGPAK SOFTIE 9 HAWK SLEEPING BAG
Temp. Rating: Comfort 23°F / Low 14°F (-5°C / -10°C) • Weight: 30 oz • Length: 86" • Chest: 65" • Color: Olive • Pack Size: 9" x 9" (fully compressed) P/N 13-08797 $57.65

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

WWW.AIRCRAFTSPRUCE.COM
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 9920-00-966-0432
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 Strikes
P/N 13-08794 $10.20

PROFORCE COMMANDO WIRE SAW
The strongest (over 100 lbs breaking strain) and most effective wire saw available. Cuts through wood, plastic, bone and even soft metals. Constructed using 8 strands of interwoven stainless steel wire, will easily reach inaccessible places. Attach rope to split rings on each end to cut higher branches. 24” sawing edge. Can also be used as a snare. Many uses for the outdoor and house. Retail Packaged. P/N 13-08795 $6.95

PROFORCE MARINE SAFETY WHISTLE

PROFORCE HEAVY DUTY BUNGE CORDS
Ideal for securing cargo, packs and just about anything. Great for shelter building. Heavy duty 30” long x 3/16” 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 $29.75

US AIR FORCE SURVIVAL HANDBOOK
Written for use in formal United States Air Force survival training courses, the U.S. Air Force Survival Handbook is the bible for pilots who want to stay alive—no matter what. 592 Pages
P/N 13-08790 $15.50

RESPONSE PACK
When travelling light, or when you may need to move out in a hurry, it pays to keep all your essential items together, with a place for everything this multifunctional carry case also doubles as a fancy 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 med 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 $25.50
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 mini-aluminum LED white light. The light can be quickly and easily activated and can be operated independently. The rare earth magnetic base allows the light to be mounted on the blade for a 90 degree light. A second aluminum mini flashlight with red LED is included. Both LED mini flashlights are powered by AAA batteries (included). P/N 13-21092 $124.95

FLIGHT OUTFITTERS MULTI-TOOL
Why carry a toolbox when you can have all the essential tools right at your fingertips? This Multi-Tool has everything you need for quick repairs. Needle nose pliers deploy with a touch of a button, making one-hand operations. Durable stainless steel tools with an anodized aluminum handle will be a perfect addition to your flight bag. P/N 13-20665 $39.95

BRITE STRIKE 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. On the front of the survival pack is a 200 plus hour, dustproof, shockproof 3m® Adhesive Back. Six different colors. Includes: 2 Green, 2 Ir 2 Red 2 White, 1 Blue, and 1 Amber. P/N 13-16429 $49.95

BRITE STRIKE EXECUTIVE PRECISION LIGHTING INSTRUMENT
The EPLI™ is the perfect lighting instrument for any outdoor adventure. Super bright, waterproof and shockproof, it slips easily in a day pack or pocket. The EPLI™ has a strobe setting that can be used for SOS signaling and runs on easy to find low cost AAA batteries. Slim and sleek LED penlight made of high grade aircraft aluminum and a T6 anodized finish. The EPLI™ has a heart of a true rugged outdoor flashlight. P/N 13-16430 $69.99

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 narrowest purse 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 signalling 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

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Prices Subject to Change Without Notice
GLOVES – SURVIVAL KITS

GENERAL UTILITY 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 wrist wipe on the thumb. This glove is ideal for any number of rugged applications.

<table>
<thead>
<tr>
<th>Size</th>
<th>P/N 13-09814</th>
<th>Price</th>
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<td>$22.50</td>
<td></td>
</tr>
<tr>
<td>X-Large</td>
<td>$22.50</td>
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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.

<table>
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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.

<table>
<thead>
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<tr>
<td>X-Large</td>
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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.

<table>
<thead>
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</tr>
<tr>
<td>X-Large</td>
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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.

<table>
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<tr>
<th>Size</th>
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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 FAA FAR 91.627 requirements. 10.62" L x 9.68" W x 4.87" D. 7 lbs (3.2 Kg Approx.)

| P/N 13-15955 | $349.00 |

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 an array of essential and “what if” items in a durable case to cover any situation. Pilots think safety first and Flight Level agrees. Meets and exceeds FAA FAR 91.627 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 DELUXE - 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 91.621 & 135 requirements as well as other aviation authorities. Each Kit is inspected and secured with a numbered break-away tag.

| P/N 13-15957 | $349.00 |

FAA - The FL220 First Aid Kit is 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.

FAA - The FL220 Expanded Survival Kit was designed 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 6.87" D. 8.5 lbs (3.9 Kg Approx.)

| P/N 13-15958 | $457.00 |

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| P/N 13-15958 | $457.00 |

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Prices Subject to Change Without Notice
TWO-MAN V.I.P. SURVIVAL PACK
It’s staggering just how much useful equipment comes out of this 10’ x 11’ x 4’ 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..........................$282.95

NYLON CASE FIRST AID KITS

MODEL A FIRST AID KIT
International Orange Case Velcro Hold-Downs 10 FA Unit Kits Contents: 
- 1” X 3” Adhesive Bandages (16 Bandages) 
- First Aid Instruction Book 
- Adhesive Tape (2 Rolls) 1/2” x 2-1/2” 
- Burn Gel Packets 
- Wire Splints 3/4” x 27” 
- PVP Iodine Wipes (10 Wipes) 
- Orange First Aid Case 
P/N 13-02944......................$79.95

MODEL B FIRST AID KIT – International Orange Case Velcro Kit Contents:Burn Gel Packets 
- Aluminized Thermal Blanket 
- Sissors 
- Emergency Strobe 
- Hema-Flex 4” Bandage Compress 
- 36” X 48” Gauze Compress 
- 1” X 3” Adhesive Strips 
- 1/2” Adhesive Tape (2 Rolls) 
- 2 Triangular Bandages 
- Ammonia Inhalants 
- Wire Splints 
- PVP Iodine Wipes
P/N 13-02945......................$114.95

FIRST-AID SAFETY SCISSORS
Angle Kit Plastic Handle Scissors 4 1/2” can be used in all first aid kits.
P/N 13-12038........................$1.95

AIRCRAFT EMERGENCY SURVIVAL KIT
This is an ideal emergency support kit for plane, boat, home, office or school.
This kit will sustain a person for 3 days. Includes: 2400 calories of ready-to-eat US Coast Guard approved food, sterile Coast Guard approved water, a lightweight (54” x 48”) durable, waterproof blanket, & assorted first aid supplies, medicines etc.
P/N 9641...........................$29.95

ODEO LED FLARE
Traditional flares will illuminate for around 30 seconds before extinguishing: the Odeo Flare™ illuminates for around 10 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......................$123.95

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

SMARTKNIFE 7 IN 1 UTILITY KNIFE
Much more than just a pocket knife…It’s a bottle opener, screwdriver, belt cutter, glass breaker, multi-size spanner and a knife all wrapped up in a high-grade stainless steel body. Handy belt clip and lanyard attachment included.
P/N 13-18552......................$12.95

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 an amazing 4,000 STRIKES. 
P/N 11-10894........................$17.50

SPACE EMERGENCY BLANKETS
This “two ounces of protection that fits in the palm of your hand” is about the size of a deck of cards when folded, but opens into a 56” (142cm) by 84” (214cm) tough and durable thermal reflective blanket. The Space Emergency Blanket has helped save countless lives, by providing needed personal protection from the harsh elements of Mother Nature. Available in orange on one side and silver on the other, a combination providing greater air-to-ground visibility, particularly against a snow or water background.
P/N 13-06933..........................$4.35

TRAFFIC WAND
This lighted traffic directing wand comes with 6 colored lens disc 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

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 - 6-1/2” Sets of LED Lites, Ultra High Visability, 21 Inches length. Tough ABS construction. 400 Hour battery life.
22” Red .........................P/N 11-10803..........................$17.95
22” White .........................P/N 11-10804..........................$32.85

STROBEWAND LIGHT
The Strobewand is a hand held, battery powered warning light wand. Designed as a durable, quality-built, essential for traffic control. The Strobewand quickly attracts attention on the ramp. This Strobewand can be operated in the steady state or, with a flip of the switch, produce up to 120 flashes per minute. And readily tucked in a trunk or hung from the belt.
P/N 14-00833..........................$42.70

WWW.AIRCRAFTSPRUCE.COM Prices Subject to Change Without Notice
COCOON 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, 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 SURVIVAL KIT

Specially designed by a focus group, the ESK-02 makes it easy to be prepared for life’s little surprises. Each kit contains over 40 medical and general supply items including a guidebook that offers survival tips and 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/performance item, corporate gift, or employee award.

P/N 13-03606 $34.50

CANADIAN-ALASKAN SURVIVOR PAK

Originally designed for pilots flying within Alaskan and Canadian airspace, the CA-20 offers protection against harsh climates in the event of an emergency. It contains over 150 medical and general supply items to help sustain two people for up to 14 days. The space-saving design combined with its ample supply of food and water makes the CA-20 a popular choice on board fixed wing, rotor craft, and corporate jets. It’s also used extensively by Search & Rescue units!

P/N 13-03596 $462.00

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 SURVIVAL 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 Cold Pack • Medical Kit • Disposable Flashlights • Thermal Blankets • 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

FIRST AID ’N TRAVEL KIT

Finally—a compact, complete travel unit for the person on the go! This kit fits perfectly in a purse, briefcase, or glove compartment, and is ready when you need it in first aid situations. It’s a very special kit 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

EMERGENCY FOOD RATIONS

Individualized portions eliminate the messy breaking-up that occurs with other bars. Allows for on-land emergency consumption in a high-stress active situation. Contains no cholesterol or tropical oils. Enriched with vitamins and minerals exceeding the RDA requirements. Pleasant lemon flavor which appeals to everyone. 5 year Shelf Life. Non-Thirst Provoking. Withstands Temperatures of -40°F to 300°F (-40°C to 149°C).

- **13-03602** Ready to Eat: Each package contains 3 pre-measured 400 calorie meals.
- **13-03601** Ready to Eat: Each package contains 6 pre-measured 400 calorie meals.
- **13-03599** 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 Transference (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 0.224 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 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, 15 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 11-10940 $35.50

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993
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 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 at 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 contains 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 pre-measured 400 calorie individualized portions, non-thirst provoking lemon flavor daily meals, and suitable from -40F to 300F and ready. 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 4-7 SURVIVAL KIT**
The Crashkit 4-7, designed for use in typical GA light aircraft and commercial aircraft, contains the materials necessary to sustain four people for seven days in the event of a crash. The variation of items within the kit allows for multiple options for food, fire, water and shelter; for example, in addition to the Mainstay packaged food, a fishing kit and snare are also included. This kit contains 232 of the most essential items needed in a survival situation, packaged within an indestructible Pelican 1400 case. Every item included in this kit has been thoroughly tested and approved to ensure it performs flawlessly when needed, and meets or exceeds Transport Canada’s Canadian Aviation Regulations to facilitate survival and rescue. Dimensions :13.37” x 11.25” 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 Case : Pelican 1400 case - tough, watertight, polycarbonate case Kit Coverage : 4 people for 7 days (or longer dependent on situation) Optional Acc’s : Parachute deployment system; Warranty : Lifetime……P/N 13-04691 ……….$925.00

**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 a typical GA light aircraft and contains over 200 essential items needed to sustain two people for seven days. This Aviation kit contains multiple options for the provision of food, fire and water, including Aquatabs Water Purification Tablets and the Spark-Lite Flint and Tinder kit. The kit is packaged in a Pelican 1200 case and remains lightweight and compact for ease of storage. As with all Crashkits, all products have satisfied rigorous testing to ensure they surpass Transport Canada regulations for aviation. Crashkit 2.7 exceeds all Transport Canada and Federal Aviation Administration regulations for both survival and first aid, 1-6 person. Dimensions : 27 x 24.6 x 12.4 cm (10.62” x 9.68” x 4.87”) Weight : 4.31 kg or 9.50 lbs………………P/N 13-04690 ……….$529.95

**CRASHKIT 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 : 22.80lbs Contents : 261 items covering food, fire, water, shelter, and first aid Case : Pelican 1450 case - tough, watertight, polycarbonate case Kit Coverage : 6 people for 7 days (or longer dependent on situation) Optional Acc’s : Parachute deployment system; Warranty : Lifetime………………P/N 13-04692 ……….$1,195.00

**SURVIVAL TOOL KIT**
Total weight is 3 lbs. Custom designed, adjustable carrier holds equipment. Can be worn around waist, used as tourniquet or with wooden dowels as splint. Dowels help with firestarting. Blunt-tipped Meyerco Rescue One knife prevents injury, cuts seat belts and harnesses. Handle includes carbide glass breaker. Two emergency blankets. Emergency signaling mirror. Victorinox SwissTool includes: pliers, screwdrivers, wire cutter, cap lifter, blades, metal file and saw, wood saw, reamer and punch, chisel/scraper, crate opener, wire bender, stripper and scraper, snap opener, ruler, electrical crimper. Two-sided screw bit holder with six bits and belt holder. Whistle. MINI MAG-LIGHT® flashlight. Knipex adjustable plier wrench. Magnesium fire-starting tool from Doan Machinery and Equipment. ………………………………………P/N 13-05676 ……….$299.95

**MILITARY PILOT SURVIVAL KITS**
Designed by Oregon Aero for the U.S. Navy. The durable carrier pouch is hand sewn by Oregon Aero with pockets for each item. Knife, fire starter and flashlight lanyards attached to carrier. Special zipper permits access to folding knife without opening the carrier. 6.5” high, 5.5” wide, 2” thick. Kit includes: • Gerber® Multi-Tool created especially for this kit by Gerber and Oregon Aero • Gerber® Harsey Air Ranger II Folding Knife • Nexum™ 26DNL Compass • LED Task Light™ Flashlight • Sunscreen Packets • Vacuum sealed Balaclava • Strike Force™ Fire Starting System. Custom designed Multi-Tool includes pliers, wire cutter, file, awl, serrated sheep’s foot blade, knife/fish hook sharpener, assorted screwdrivers. ………………………P/N 13-05675 ……….$462.95

**MILITARY PILOT SURVIVAL KITS**
Designed by Oregon Aero for the U.S. Navy. The durable carrier pouch is hand sewn by Oregon Aero with pockets for each item. Knife, fire starter and flashlight lanyards attached to carrier. Special zipper permits access to folding knife without opening the carrier. 6.5” high, 5.5” wide, 2” thick. Kit includes: • Gerber® Multi-Tool created especially for this kit by Gerber and Oregon Aero • Gerber® Harsey Air Ranger II Folding Knife • Nexum™ 26DNL Compass • LED Task Light™ Flashlight • Sunscreen Packets • Vacuum sealed Balaclava • Strike Force™ Fire Starting System. Custom designed Multi-Tool includes pliers, wire cutter, file, awl, serrated sheep’s foot blade, knife/fish hook sharpener, assorted screwdrivers. ………………………P/N 13-05675 ……….$462.95

**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**
SURVIVAL EQUIPMENT

REVERE GLOW PARAHATCHET SURVIVAL CUTTING TOOL
Paracord handle unwraps to provide 8.2ft. (25m) of heavy duty cord for emergency use. Lanyard can be removed for additional 1.6 ft. (0.5m) of cord. 5mm black oxide-finished stainless steel blade. Induces 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 13-15539 ............$23.75

REVERE PARAHATCHET SURVIVAL CUTTING TOOL
Paracord handle unwraps to provide 8.2ft. (25m) of heavy duty cord for emergency use. Lanyard can be removed for additional 1.6 ft. (0.5m) of cord. 5mm black oxide-finished stainless steel blade. Induces nylon sheath with belt loop. Multi-sized hex wrenches. Quick-action rope cutter on back of blade. Built-in wrist lanyard included. Size: 10" x 4" x 0.5". Weight: 11 oz. P/N 13-15540 ..........$16.65

REVERE PARAKNIFE 4.0 SURVIVAL KIT
Kit contents: ParaKnifeTM 4.0, PicoTM 1.0 LED Light, Liquid-filled Button Compass, Micro SparkWheel FireStarter, Light-MeTM Tinder, JetScreamTM Micro Signal Whistle, and StarFlash® Micro Signal Mirror. Size HxWxD: 8.7"x1.34x0.2" (220 x 34 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: 1.6 oz. with hook-and-loop closure. "Lite" version comes without the carry case. Size closed: 3.3"x2.2"x.5". Weighs 1.6 oz. P/N 13-15540 ..........$16.65

REVERE SURVIVAL TOOL CARD
Thirteen tools protected by a hard plastic credit card-size case: Attachment loop, Mini Phillips screwdriver, Large flathead screwdriver, Magnifying gloss, 8-sided bolt head wrench, Position wrench (4 different sizes), Butterfly wrench, large flathead screwdriver, Bottle opener, File edge, Sharp knife edge, Can opener, 2 inch/5cm ruler, and Mini compass*. Size closed: 3.3"x2.2"x.5" Weight 1.6 oz. *For optimum compass performance, separate compass portion from Mini compass. Size closed: 3.3"x2.2"x.5" Weight 1.6 oz. P/N 13-15544 ..........$5.35

REVERE WETFIRE TINDER
Works in all weather and at all altitudes. Safe, light, weight and easy to carry. Cube form, individually packaged to maintain freshness. Over 1,300 degree Fahrenheit flame. For use with any UST or other sparking device. 5-year performance in altitudes up to 8,000 feet. Not intended for use in altitudes over 10,000 feet. Weight and easy to carry. Cube form, individually packaged to maintain freshness. Over 1,300 degree Fahrenheit flame. For use with any UST or other sparking device. 5-year performance in altitudes up to 8,000 feet. Not intended for use in altitudes over 10,000 feet. Weight: 1.6 oz. P/N 13-15545 ..........$4.35

REVERE WATER TIGHT CASES
This Watertight Case Keeps Valuables Secure and Dry. Holds keys, credit cards, and other small items in the rain or snow. Shatterproof polycarbonate case with o-ring seal for import and water-resistance. NOTE: Not intended for submersion. Lanyard and wrist lanyard included. P/N 13-15540 ..........$16.65

REVERE COMPASS COMBO
Liquid-filled compass, fahrenheit thermometer and whistle. Break-away lanyard included. Size: 2.75"x1.75"x.125" Weight: .6oz. P/N 13-15549 ............$2.50

REVERE DELUXE MAP COMPASS
Liquid-filled compass with swivel bezel. Extended clear base plate for improved map reading. Multiple measurement scales for precise route planning. Adjustable marching line. Break-away lanyard included. Size: 4.25"x2.25"x.25". Weight: 8 oz. P/N 13-15550 ............$8.75

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 is 60 flashes per minute (1Hz). Lifetime LED is unbreakable and never needs to be replaced. Easy twist on/off. Impact and water-resistant IPX8. Wrist lanyard and hook/loop attachment strap included. P/N 13-15553 ............$26.75

NEBO POPPY LANTERN AND SPOT LIGHT
Poppy is a combination 300 lumen C•O•B (Chip on Board) LED lantern and bright LED spot light. Poppy is the perfect light for indoor or outdoor use when versatility and powerful lighting are critical. With a rubberized impact-resistant body, Poppy is both rugged and soft to the touch. Poppy easily changes from spot light to lantern with just a slide of its top, revealing a full 360° C•O•B Lantern. The handle is designed to easily adjust to conveniently serve two light modes. 4 Assorted Colors (Yellow, Dark Grey, Red, Green). Lantern color is shipped randomly. P/N 13-20219 ..........$15.95

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. Withstands winds of 70-80 miles 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 both keep water out when lighter cap is 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
ACR FIREFLY PRO SOLAS DISTRESS STROBE LIGHT

The Firefly PRO emergency strobe light boasts a light output power management system that produces over 41 candela of light per strobe for up to 56 hours of use with AA lithium batteries. Using wide light emission LEDs, it cuts through the foulest conditions creating a super-bright flash visible for over 3.5 miles.

Specifications: - Size: 4.4 x 2.2 x 1.2 inches / 11.7 x 5.7 x 2.8 cm • Weight: 2.39 oz (68 g) (without batteries) • Operation: Manual ON/OFF switch • Waterproof: Factory tested to 33 feet. (10 m) • Lamp: LED - cool white • Strobe Intensity: 41 Candela (Strobe) • Strobe Visibility: Over 3 miles • Strobe Flash Rate: 60 P/M +/- • Strobe Operation: 56 hours • Certification: SOLAS, USCG, MED, IMO LSA, CE.

P/N 11-14798 $59.95

REVERE SEE-ME LIGHT

Both automatic and manual modes. Fast activation in water. Fast exceeds USCG requirements for light output and duration. Waterproof/weatherproof. For use with lithium (5 year) or alkaline (1 year) batteries (not included). Available with lifevest clip and lanyard. USCG Approved/SOLAS compliant. Typical Light Output is up to 1.6 cd (min. requirement by USCG is .75 cd). Typical Operation Time is 29 hrs (min. requirement by USCG is 8 hours)

P/N 10-04579 $8.50

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 $25.75

TINDER HOT BOX SOLAR FIRE STARTER SURVIVAL KIT

The Tinder HOT Box Solar Fire Starter™ is a tinder storage box that can start a fire using solar energy, and the inside top cover is also a signal mirror! The Tinder HOT Box Solar Fire Starter™ is used to store fire starting tinder in the air/water tight tinder box portion of the unit that is sealed from the elements using an o-ring seal. 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. 2.625 inches in diameter, .725 inches thick, weighs only 4 oz. can easily fit in your pocket.

P/N 13-13091 $39.95

RESCUEME EDF1 OCEAN SIGNAL FLARE

The rescueME EDF1 electronic distress flare offers users a safe and long-lasting solution to visual signaling in an emergency. The light output is a beam of over 30° throughout the full 360° azimuth, 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 $161.75

Replacement Battery Pack ...P/N 13-20243 $42.50

PERSONAL SIGNALING REFLECTOR

The “Automatic Personal Signaling Reflector” works continuously and automatically 24-7, day and night. You can work on your shelter, gather food/water or rest if injured. Rescuers will not walk by you if you’re asleep or if you are unable to respond. The highly reflective silver-coated plastic works with Sunlight, Search Lights and Flashlights. It’s always working.

P/N 13-08662 $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 stainless steel blade at the 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 $11.50

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 tones!

P/N 11-12917 $28.99

GOGIRL 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

FIREFLOOD FRAGRANCE DEODORIZER

FIREFLOOD 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.

4 oz. .............................................P/N 14-03332 $4.35
16 oz. ...........................................P/N 14-03330 $10.85
1 Gallon..........................................P/N 14-03331 $20.85
**THE ICEBOX PORTABLE AIR CONDITIONER**

The IceBox is a portable air conditioning system, for your airplane cabin, car, or boat. For Pilots: No more flying in a scorching hot cabin! Turn ON the IceBox during preflight and cool your cabin down before engine start. Jump in and experience a comfortable taxi and departure to a cooler altitude. Enjoy hours of IceBox cooling power and control your comfort with the wireless remote Pump and Fan controls. TIP: During cruise flight, Turn OFF the water pump at altitude to sustain the longest AC possible. In Cruise Flight Mode - Keep the fan running to push cooler air through the cabin. For General Use: Use the IceBox portable air conditioner in any environment, with or without available electrical power. Cool down the car or boat with the IceBox, and keep your engines off in the process.

Specifications:
- **Voltage**: 12V or 24V. Max Power Consumption 4.5 Amps
- **Dimensions**: 10"x13"x18"
- **Weight Empty**: 10lbs

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<thead>
<tr>
<th>Voltage</th>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<td>Wired Unit</td>
<td>08-16239</td>
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<td>12V</td>
<td>Full System</td>
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**ICEBOX PILOT CABLE**

Pilot’s Cable to switch between ship’s power and Aux Battery (useful for preflight, fuel stops and post-flight draining of the IceBox). P/N 08-16241 $59.99

**COOL MOVE TRAVEL COOLER**

Soft sided electric travel cooler with cigarette lighter car plug in. Cools without ice which leaves you more room for food and drink. Quiet, long lasting motor powered by 12V vehicle outlet. 14 quart capacity that holds up to 20 cans plus snacks. Collapsible cooler takes up minimal space and allows for easy storage. Iceless cooling 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°F 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. Kool-Flex, a flexible and expandable air duct. Can be expanded to over 2 feet and positioned so air can be ducted where you want it. Because the B-Kool™ weighs less than 10 lbs empty, you can easily move it from your Camper, Airplane, Boat or any area where either 12 or 24V DC current is available.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Description</th>
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**KEWFLOW 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. KoolFlex includes KoolVest 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 5 hours. Typical users include surgeons, motorcyclists, and others needing personal cooling relief. P/N 13-15509 $307.00

**KEWFLOW 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. Keeps you 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 $475.00

**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. Color: Black, Size: 9 Quart Cooler. Typical users include surgeons, motorcyclists, and others needing personal cooling relief.

<table>
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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.

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**VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE KEWFLOW HEATING AND COOLING VESTS.**
COOLERS

YETI® TUNDRA® COOLERS

YETI makes the world’s best coolers. Extreme design and construction assure you a lifetime of extreme performance. No other cooler is as durable. No other cooler keeps ice longer. No other cooler compares.

FATWALL™ DESIGN
Extra-thick walls hold up to two inches of insulation for unmatched ice retention.

ROTMOLDED CONSTRUCTION
Makes it armored to the core and virtually indestructible.

PERMAFROST™ INSULATION
Pressure-injected commercial grade polyurethane foam in the walls and lid makes sure your ice stays ice.

<table>
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<th>Cooler</th>
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<th>Weight</th>
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<td>Tan</td>
<td>13-19121</td>
<td>$449.99</td>
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<td>Tundra 105</td>
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<td>White</td>
<td>13-19122</td>
<td>$479.99</td>
<td>36 lbs</td>
<td>20&quot;</td>
<td>L 30-1/2&quot; W 19-1/2&quot;</td>
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<td>Tan</td>
<td>13-19123</td>
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<tr>
<td>White</td>
<td>13-19124</td>
<td>$499.99</td>
<td>39 lbs</td>
<td>20&quot;</td>
<td>L 37&quot; W 18&quot;</td>
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<tr>
<td>White</td>
<td>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>
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<tr>
<td>White</td>
<td>13-19126</td>
<td>$679.99</td>
<td>54 lbs</td>
<td>21-1/2&quot;</td>
<td>L 45&quot; W 19-1/2&quot;</td>
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<td>Tundra 210</td>
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<tr>
<td>White</td>
<td>13-19128</td>
<td>$899.99</td>
<td>70 lbs</td>
<td>21-1/4&quot;</td>
<td>L 55&quot; W 22-5/8&quot;</td>
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<td>Tan</td>
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<tr>
<td>White</td>
<td>13-19129</td>
<td>$1,299.99</td>
<td>89 lbs</td>
<td>23-1/4&quot;</td>
<td>L 63-1/4&quot; W 24-1/2&quot;</td>
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<td>Tan</td>
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VISIT WWW.AIRCRAFTSPRUCE.COM FOR MORE YETI PRODUCTS!
YETI® HOPPER™ TWO 30 SOFT 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. DRYVIDE™ SHELL - The Hopper’s high-density fabric is waterproof and resistant to mildew, punctures, and UV rays. The liner is made from an FDA-approved food-grade material. COLDCELL™ INSULATION - Closed-cell rubber foam offers far superior cold-holding to ordinary soft coolers.

YETI® TANK®

The best times in life seem to involve good friends, family, and a healthy supply of ice-cold drinks nearby. So we designed the YETI TANK to be the perfect centrepiece of all the fun. This nearly indestructible party machine is packed with our patented cold-holding insulation to keep your next backyard barbecue, tailgate, or beach side bonfire wilder, longer.

YETI® RAMBLER™ DRINKWARES

The Rambler series of drinkware is the first line of YETIs you can fit in your hand. And, yeah, they over-engineered them to be virtually indestructible and keep your drink as cold (or hot) as science allows. With 18/8 stainless steel construction, and No Sweat™ Design, they’re perfect for the deer lease, cleaning table, or just the times in between your outdoor adventures.

18/8 STAINLESS STEEL - Made with kitchen-grade stainless steel, so they’re puncture- and rust-resistant.

DOUBLE-WALL VACUUM INSULATION - Keeps cold drinks cold and hot drinks hot until the last sip. NO SWEAT™ DESIGN - Keeps it dry on the outside.

THE NOSE JOB 1 FOR RV NOSE GEAR

Anti-Splat-Aero is very proud to offer this revolutionary product (THE NOSE JOB 1) as a partial solution to the nose gear leg fears of many RV-A model builders, current owners and potential buyers of these wonderful aircraft.

After watching, reading, analyzing, researching and waiting for someone to offer up a solution we decided to go to work on the problem. This product allows the Van’s nose gear leg to function as designed without interfering with its dynamics or operation in any way. The product only comes into play when the forces on the gear leg, if allowed to increase further, would become greater than the gear leg was designed to see or handle without permanent damage to itself or the aircraft. When operating your aircraft from an unimproved surface i.e. grass, dirt, poor runway surface or in an emergency off field landing this device could help prevent a costly repair, a propeller strike, engine disassembly for inspection or other damage may be avoided without mention a dreaded possible flip over we have seen so many times. P/N 05-12363 $379.00

THE NOSE JOB 2 FOR RV NOSE GEAR

After many requests and making dozens of custom units, we are proud to offer this variation of our product " THE NOSE JOB TWO " as a partial solution to the nose gear leg fears of many RV-A model builders, current owners and potential buyers of these wonderful aircraft. Many of you requested a kit that would not require the fitting of a new fairing.

The preparation and fitting of the new fairing is a complex problem for potential buyers of these wonderful aircraft. Many of you requested a kit that would not require the fitting of a new fairing.

After many requests and making dozens of custom units, we are proud to offer this variation of our product " THE NOSE JOB TWO " as a partial solution to the nose gear leg fears of many RV-A model builders, current owners and potential buyers of these wonderful aircraft. Many of you requested a kit that would not require the fitting of a new fairing.

THE 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. It provides a surface area to keep the gear leg from digging in on contact. Installation only takes a few minutes and can possibly prevent a flip-over and serious damage to your aircraft. The center post is precision machined from 4130 grade aircraft steel as is the skid plate. Assembled and heat treated to a 45 rockwell, then zinc plated to provide a lifetime of protection for your aircraft. This comes with a vibration preventing O-ring for inside the gear leg and complete installation instructions to install inside the wheel pants out of sight. Total weight of this installed is 7 oz. P/N 05-12365 $89.00

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999
PILOT RELIEF TUBES
HORN
Black molded plastic horn fits into horizontal or vertical brackets. Measures 2-3/8” diameter and weighs 1.3 oz
P/N 13-04168 $16.50
HORIZONTAL BRACKET
Black molded plastic bracket for underside installation.
P/N 13-04169 $23.95
VERTICAL BRACKET
Black molded plastic bracket for vertical installation.
P/N 13-04170 $16.95
VENTURI
Black molded plastic venturi mounts on fuselage bottom and produces required suction to horn and outlet tubes for fluid ejection.
P/N 13-04171 $32.60
HORN AND VALVE ASSEMBLY
Dimensions: Length: 8-31/64”; Top opening: 2-21/64”; Bottom opening: 3/16”; Weight: 4 ounces
P/N 13-04167 $107.75

TEE AN8019-1
The material is RTP 152 black. 2-1/32” wide and 1” length
P/N 13-04172 $10.50

ULTRAFIT™ UNCORDED EARPLUGS 340-4001 IN CARRYING CASE
• Patented, premolded, triple-flange design inserts easily.
• No rolling or sizing needed to get a comfortable, protective fit. • Hypoallergenic polymer is washable and reusable. • Carrying case keeps plugs clean and accessible for re-use. • NRR 25dB. • ANSI S3.19-1974; CSA Z342-02
P/N 13-00651 $0.85/pair

EZ FIT EAR PLUGS WITH CORD
The E-Z Fit line of ear plugs was designed specifically for smaller ear canals, providing comfort and a secure fit. The self-adjusting foam and bell shape allow for easy insertion and help to keep the earplug from shifting or distorting...
P/N 13-04173 $1.00/pair

CLASSIC™ UNCORDED EARPLUGS 312-1201 IN A POLY BAG
• Slow-recovery foam helps ensure comfort and minimize pressure. • Bright yellow color provides a quick visual compliance check. • Dermatologically safe foam is non-irritating, nonflammable, and moisture-resistant. • NRR 29dB. • ANSI S3.19-1974; CSA Class AL
P/N 9134 $0.37/pair

PRESSURE REGULATING EAR PLUGS FOR CHILDREN
EarPlanes are a patented pressure-regulating earplug inserted in the ear to help reduce discomfort often associated with air travel. They were developed by Cirrus Healthcare Products LLC in conjunction with the House Ear Institute in Los Angeles, and have been tested by US Navy aviators at the Miramar Naval Air Station in San Diego...
P/N 14-02837 $7.95

PUMA METHOD FOR PREVENTION OF MOTION SICKNESS
A series of simple conditioning exercises, taught on VHS or interactive DVD, that effectively prevents the nausea, vomiting, lightheadedness and other unpleasant symptoms experienced by over 50% of the population while traveling. Sam C. Puma MD, president of Puma Applied Science and former Air Force Flight Surgeon at NASA, developed these revolutionary new exercises to totally eliminate carsickness, seasickness, airsickness, and even spacesickness. Takes only about 15 minutes a day to do.
DVD...
P/N 13-03675 $42.50

OZIUM AIR SANITIZER / FRESHENER
Eliminates smoke and offensive malodors caused by airborne bacteria. OZIUM is a product that sanitizes the air you breathe. It is clinically proven to eliminate odors, unlike current products that just mask odors. OZIUM combats airborne contaminants and eliminates odors with glycol-ized action...dispensing micron sized particles that linger in the air, attach to airborne bacteria and malodors to drastically reduce air pollution, purify and sanitize the air...
P/N 14-00061 $9.95

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 comfortable experience...
3pk ...
P/N 13-12354 $13.50
10pk ...
P/N 13-12355 $36.75

LITTLE JOHN
Positively the least expensive accessory you can buy to extend your range. One authenticated case reports a Piper Malibu’s range extended by 500 miles. Durable plastic, won’t crack under any normal handling and weather conditions. A tight screw-on cap makes it spill proof. Standard issue in hospitals for years...
P/N 9741 $10.95

LADY J ADAPTER
The anatomically designed funnel snaps in and out of the Little John. It can be used sitting or even standing. Clean white plastic...
P/N 9745 $6.99

G FUNNEL ADAPTER
The G-Funnel is a portable urinal adapter which simply screws on to any plastic pop or water bottle that will be used as a container for those situations where a washroom facility is not available. Can be attached and used together with any sized plastic pop or water bottle that most people have on hand. A very useful relief device for those emergency situations...
P/N 13-01974 $7.99

FORENSICS CARBON MONOXIDE DETECTOR
A Small carbon monoxide detector for aircraft for air- craft that triggers alarms in line with air quality regulations, particularly important for health and occupational concerns for pilots. This product remains on calibration for 3 years...
P/N 13-22019 $99.00

TRAVEL JOHN
Absorbent pouch turns urine into gel instantly while destroying bacteria and odor. Specially designed color-coded bands for men and women and children; spill guard prevents back guard during use. Convenient, sanitary and compact, TravelJohn is easy to use while sitting or standing. Will not leak or spill, even if punctured. Holds 28 fl. oz. Includes antisptic hand wipe, 3-pack...
P/N 13-00894 $5.50

CONVENIENCE BAG
Disposable urine & vomit bag. • Wide mouth. • No spill, cleanup, or odors. • One-hand use
P/N 13-02821 $2.25

MOTION EAZE
Whether you want to prevent occasional motion sickness or relieve its symptoms, after the fact, Motion Eaze does the job. No matter, if it’s sea sickness, car sickness, air sickness or any activity where motion sickness poses a problem, Motion Eaze really works. Contains no drugs, artificial additives, or stimulants of any kind. Only the freshest, highest quality, natural oils are used in its production. Motion Eaze is an oil that is applied to, and absorbed through, the skin, just behind the ear...
P/N 13-02732 $16.50

SEABAND WRIST BAND
The Sea-Band has been clinically tested against nausea and vomiting in travel, pregnancy, anesthesia, chemotherapy and all conditions which induce nausea. The Sea-Band is a knit elasticized wrist band, which operates by applying pressure on the Nei Kuan acupressure point on each wrist...
P/N 9411 $8.75/pr

SIC-SAC™
Use these for air sickness emergencies. Moisture proof and tear resistant even under extreme temperature changes. 50 sacks, individually packaged, each with attached tie band.
Pack of 10...
P/N 9296 $5.95
Pack of 100...
P/N 9296-100 $58.00

AITHRE SHIELD EX 1.0 CARBON MONOXIDE DETECTOR
The Aithre Shield Ex 1.0 Carbon Monoxide Detector is the first analog output carbon monoxide detector for experimental aircraft and is compatible with Dyon Skyview and Garmin G3X. Smaller than a business card and lighter than a pack of gum, yet highly sensitive and accurate...
P/N 11-17142 $250.00

AITHRE SHIELD EX 2.0 CARBON MONOXIDE DETECTOR
The Aithre Shield Ex 2.0 Carbon Monoxide Detector is the first analog output carbon monoxide detector for experimental aircraft that pairs with an iOS app for trend data. Compatible with Dyon Skyview and Garmin G3X...
P/N 11-17143 $300.00

WEB SITE: WWW.AIRCRAFTSPRUCE.COM

Prices Subject to Change Without Notice
CO GUARDIAN
CARBON MONOXIDE DETECTORS

AERO 353-101/201  • The AERO 353 has a built-in state-of-the-art CO sensor that immediately reacts to the presence of CO. It was designed for pilots who want the unit to be small, so it takes up a minimum of panel space, and provides pilots a peace-of-mind. Detector will go into alarm mode within five minutes if CO level is greater than 50 PPM. The unit has dual light LED alarm; Amber less than 99 PPM and Red 100 PPM and above. Very simple installation (2-4 hours). For experimental aircraft only.

Aero Model 353 ................................................. P/N 13-16423 ................ $289.00
Aero Model 353 w/ Pressure Sensor .............................. P/N 13-16424 ................ $389.00
Aero Model 353 Display Only ...................................... P/N 13-16427 ................ $389.00
CO2 Deterior for MVP and CGR .................................. P/N 10-03188 ................ $289.00
353P-201 Remote Mount ........................................... P/N 13-06917 ................ $459.00

MODEL AERO 553  • Replaces the 2.25” clock and provides the latest CO protection that displays 30 to 9999 ppm in the cockpit, as well as aircraft high and low voltage alarms, pressure altitude读out for takeoff, Cabin altitude alerts to remind you to go on oxygen. CO level, cabin pressure and temperature to be displayed on the UPS AT 01-011 is the P/N 13-02570.

Aero 553 OAT Probe............................................. P/N 13-06165 ................ $140.75

MODEL AERO 451  • The CO Guardian 451-101 panel mounted Carbon Monoxide (CO) detector is designed especially for FAA certified Part 23 aircraft and Part 27 and 29 rotorcraft. A compact and lightweight unit meant to use as little panel space as possible, the 451-101 combines highly accurate CO detection for the cockpit in a small package. This CO detector is perfect for builders and pilots looking for basic protection from the dangers of carbon monoxide in their certified aircraft or helicopter.

Model 451-101 Panel Mount........................................... P/N 13-21110 ........ $478.00
Model 451-201 Remote Mount ..................................... P/N 13-21111 ........ $478.00

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. Inspection - Each Unit 100 % tested. Humidity - 5 % to 95 % RH (non-condensing) Circuit Breaker-2 Amp, Design-Meets TS5-C46A. Weight-3.5 Oz. Sensor-Tested to 25,000 Ft. Calibration-100 and 500 PPM. Output-Dual Relay Output for, Panel Warning light / Annunciator. WARRANTY: The Aero 452 comes with a 1 year limited warranty. The warranty will be void if the unit has been opened or tampered with. P/N 13-07102 ................ $479.00

MODEL AERO 452-201-011  • Aero 452-201 Remote Mount, A self-monitoring and detection of carbon monoxide, hydrogen sulphide or hydrocarbons. The AERO 452 can wirelessly transmit your GPS location up to three iOS devices; iPad, iPod, iPhone enabled tablet. The Model 452 device is also designed to detect, measure, and display 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 being fuel-efficient for up to two years. P/N 13-07016 .............. $243.95

Dräger Pac® 3500  • Worksafe 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 being fuel-efficient for up to two years. P/N 13-07016 .............. $243.95

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 faster, more accurate personal monitoring and detection of carbon monoxide, hydrogen sulphide or oxygen. P/N 13-07017 .............. $324.00

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. Standard Package Contents: Detector complete with specified sensor, stainless steel alligator clip and concussion-proof housing. Test cap and hose, Manual, Multi-language CD manual.

Gas Alert Clip Extreme II CO (2 Years) ......................... P/N 13-09667 ........ $159.95
Gas Alert Clip Extreme III CO (3 Years) ......................... P/N 13-09668 ........ $380.00
Gas Alert Clip Extreme CO 0-1000PPM .................. P/N 13-09669 ........ $362.00

LONG LIFE CARBON MONOXIDE DETECTOR
No longer do you have to replace that Carbon Monoxide Detector every 28 days, the new Quantum Eye Cartridge detector offers a minimum of 8 months of sensor life. P/N 09-35601 ................ $12.75

STANDARD CARBON MONOXIDE DETECTOR

Toxic, odorless, tasteless gas produced by incomplete combustion of gasoline, kerosene, natural gas, butane, fuel oil, wood, coal, and other fossil fuels. 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. P/N 09-35600 ................ $28.63
Discount on 5 ........................................ $17.33

ASA 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, and other fossil fuels. Dangerous levels of CO can be produced by internal combustion engines or from any poorly vented or improperly adjusted fuel-burning appliance. Exposures to CO may cause unconsciousness, headaches, or even death. P/N 13-05755 ................ $3.95

DIGITAL CO2 DETECTOR

The extremely affordable DCO 1001 has a measuring range of 0-1000 ppm and comes complete with a soft case, a wrist strap, 3 “AAA” batteries and an instruction manual. Features: Adjustable co warning level • LCD dual digital display • Bright backlight • self test • Low battery indication • °F/°C selectable • Auto power off • Auto zero • Co range: 0-999ppm • Resolution: 1ppm • Battery life is 250 hours when the backlight is on and off and 35 hours with the backlight on. P/N 12-01895 ................. $152.75

MODEL 300 POCKET CO
Pocket CO Model 300 is the world’s smallest and most affordable carbon monoxide detector, alarm and dosimeter. It is a compact 0.1” thick by 2.25” wide by 0.25” high with a weight of 0 – 5000ppm; 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 warranty. P/N 13-06639 ................ $134.95

ACCESSORIES
Replacement/Spare Battery ........................................ P/N 13-06640 ................ $4.50

FLIGHT DATA SYSTEMS GD-40 CARBON MONOXIDE DETECTOR
PROTECTIVE GEAR FOR PETS

MUTT MUFFS

The inner foam that we use is the exact same ester resin foam that is used in many high end commercial head sets designed for humans. Based on the materials used, the estimated decibel reduction is between 21 and 24, assuming proper fit and a good seal against your pup’s head.

Specifications:
• Over-the-Head Hearing Protector for animals.
• Specially Designed Wide Foam Filled Ear Seals for Maximum Comfort.
• Engineered specifically to properly meet the contour of a dog’s head.
• Comfortable and Lightweight.
• Adjustable Straps for Optimum Fit.
• Inner sound-deadening foam is the same density found in pilot’s high end commercial head sets.

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”

KOOL STICKER (5 - 25 pounds 7” & 13” head size)

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 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. 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, Medium, Large, X-Large and XX-Large.

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.

4 PAWS K-9 BUMPERSTICKER

Www.thebark.com

“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!
WINDMETERS

WINDSCRIBE HANDHELD WIND METER
A precise, handheld wind meter (anemometer). Also measures maximum headwind, maximum tailwind, a five-second average wind, and a running average wind. Speeds can be displayed in both U.S. and B.F. units and also records temperature and wind chill. The Windscribe weighs 3.5 ounces and comes with a lanyard. A velcro strap and mounting bracket are included. P/N 13-04019 $179.99

WIND WIZARD WIND SPEED INDICATOR
ECOLOGY MODEL – ACCURATE & COMPACT
Conveniently calibrated in miles/hour, meters/second and Beaufort. Expanded in the lower wind speed range of 0.2-0 MPH (0.8-9 meters/sec). Slips easily into a shirt or coat pocket. Safety wrist strap gives added security in stronger winds, and stores out of the way in the folding handle. Constructed of high impact plastic and corrosion resistant metals. It comes with leather-like carrying case. No Batteries needed. P/N 13-18520 $49.99

SKYWATCH GEO 11
HANDHELD WEATHER STATION
Features: Electronic Compass: • analogical and digital. Three Data Recording Modes: • manual recording by pressing two buttons • automatic recording at selected intervals, when unit is off or on • automatic recording at selected intervals, when unit is on only. Bright LED Light: • operates on separate battery. Replaceable Ball Unit Only

SM-19 SKYMATE PLUS WIND METER
- Current, maximum windspeed - Average windspeed over 5, 10, or 13 seconds - Current temperate and humidity - Relative Humidity & Dewpoint - Choose any measurement unit - Reads in tenths - Replaceable Lithium battery (included and installed) - Stainless steel back. Auto-off after one minute (can be disabled to remain on). Included lanyard. One year warranty. Handheld Weather 4 P/N 13-04762 $139.95

XPLORER 2 WINDMETER BY SKYWATCH
Dimension: 3.5 x 1.5 x 0.75 in, 2 oz. (41 x 93 x 17 mm, 50 g). One button operation. EL Backlight. Completely sealed; internal sensors. Weatherproof (can be submerged 6 feet). Replaceable Lithium battery (included and installed). Stainless steel back. Auto-off after one minute (can be disabled to remain on). Included lanyard. One year warranty. Designed in Switzerland. P/N 13-12440 $59.95

XPLORER 3 WINDMETER BY SKYWATCH
Dimension: 3.5 x 1.5 x 0.75 in, 2 oz. (41 x 93 x 17 mm, 50 g). One button operation. EL Backlight. Completely sealed; internal sensors. Weatherproof (can be submerged 6 feet). Replaceable Lithium battery (included and installed). Stainless steel back. Auto-off after one minute (can be disabled to remain on). Included lanyard. One year warranty. Designed in Switzerland. P/N 13-12441 $99.95

SPEEDTECH INSTRUMENTS
SKYMASTER WEATHERMETER SM-28
- Pocket-size weather station features complete wind speed functions and includes a severe weather audio alarm. The relative humidity, barometric pressure, and temperature are also recorded, if required. Skymaster is water resistant, floats, threaded for tripod mounting and comes with a lanyard. One year warranty. Features: • Windspeed • Relative Humidity & Dew Point • Altitude • Current barometric Pressure • 16-HR Pressure Graph • 30-HR Temp/Weight/Heat Index

WM-100 WINDMETER 100
- Current, Average (5, 10, 13 sec) Maximum wind speed • Use a wind vane to ensure most accurate measurements. For longer range, use the tripod fitting and add the optional wind tunnel accessory. All wind functions in user selected units • Reads in tenths • Backlight • Tripod fitting • Rugged wind tunnel (maximize wind meter accuracy)

WM-200 WINDMETER 200
- 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 lowlight conditions. Each unit is water resistant, and has a tripod fitting. Features: • Digital wind direction in degree & compass points • Cross and headwind winds • *Temp/Weather/Heat Index • Current, Average (5, 10, 13 sec) Maximum wind speed Mph, Km/h, F, BF, FPM, M/Sec. Wind vane assures you are on the wind’s axis • Tripod fitting • Fits wind tunnel accessory. U.S. military specifications • Auto shutoff • Comes with adjustable lanyard

WM-300 WINDMETER 300
- Wind speed and digital wind direction, relative humidity, dewpoint, wet bulb & Delta T make this a comprehensive tool for forestry, agriculture and emergency management professionals. High accuracy sensor does NOT require adjustment; it is self-calibrating. This unit is equipped with a backlight. Accuweather.com® patented Comfort Index™ gives the effect of temp, relative humidity, wind speed, & sun intensity on the human body. Unit can be tripod mounted. Features: • Relative Humidity (self-calibrating sensor) • Dewpoint • Delta T • Accuweather.com patented • Jackknife case allows most accurate temp & RH readings • Wind speed range to 135Mph • Optional Units: Mph, km/h, F, BF (Beaufort) • F or C • Avg wind speed over 10 secs • Max windspeed 2 sec gust since power on • Auto shutoff • POWER: CR2032 replaceable Lithium battery (included) • Measures: 5.5” x 1.75” x .75” closed • Weighs 3.2oz with battery • 2-yr warranty

WM-350 WINDMETER 350
- Time • Date • Alarm • 48-HR history for all functions Digital Hr-By-Hr & Bar Graph • Current, Avg., Max wind speed in Mph, Kt, Kp/h, FPM, M/Sec, Beaufort • Digital wind direction in degrees & compass point crosses and headwind winds • *Temp/Weather/Heat Index • Current, Average (5, 10, 13 sec) Maximum wind speed Mph, Km/h, F, BF, FPM, M/Sec. Wind vane improves accuracy • Relative humidity • Wet Bulb (°F/°C) • Dewpoint (°F/°C) • Delta T • Barometric pressure (inHg/hPa) • Density Altitude (Ft/m) • Weather forecast • Audio storm alarm • Temperature (°F/°C) • Windchill • Allmetrics to 29,000 Ft/9000m • AccuWeather.com® patented Comfort Index™ • Backlight • Tripod fitting • Fits wind tunnel accessory • Case meets military specifications • Comes with adjustable lanyard. Replaceable Lithium battery (included) • Measures: 5.5” x 1.75” x .75” open • Weighs 3.2 oz with battery. P/N 13-05763 $199.99

SKYWATCH ACCESSORIES
Adjustable nylon case (fits all models) P/N 13-02202 $15.19
Wind tunnel (maximize wind meter accuracy) P/N 13-02203 $21.00
Screws Ratch Rail Mount (AP-15) P/N 13-02204 $12.50
WM-350 Replacement Impeller P/N 13-07259 $36.00
SM-28 Replacement Impeller P/N 13-07260 $21.00

WWW.AIRCRAFTSPRUCE.COM
WEATHER STATIONS – WINDMETERS

WEATHERFLOW 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 13-14798 $34.99

WEATHERHAWK MYMET 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 $131.99
Windmeter ………………………………P/N 13-15917 $95.96
Wind Valve Only …………………………P/N 13-15918 $19.99
Case Only …………………………………P/N 13-15919 $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.

Specifications:
• Range: 1.1–40.0 m/s (2.5 MPH–89 MPH)
• Resolution: 0.1 m/s
• Accuracy: ±5% of reading + 0.3 m/s
• Operation Temp: -15.0° to 60.0°C
• Storage Temp: -15.0° to 60.0°C
• Storage RH%: <90%RH
• Dimensions: 91.5mm(L) *43.0mm(W) x 18.9mm(H)
• Earphone Jack Pinout: Apple-Compatible CTIA pinout
• Headset/Earphone 3.5mm Jack (LRGM)
• Headset/Earphone 3.5mm Jack (LRGM) pinout
• Weight: 295g (10.5oz)
• requires iPhone 4S/iPad2 or newer: OR Android device with 4.3 OS or newer
• iOS and Android Apps are available for free with purchase of the device.
• Location data transmitted by email or text.
• App: Location, direction, altitude
• Transmits data by email or text.

Price: $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.

Description Part No. Price
Lo Wing Garden Weathervane 13-07217 $60.75
Cessna Garden Weathervane 13-07215 $60.75
Helicopter Garden Weathervane 13-07220 $60.75
Hi Wing Garden Weathervane 13-08169 $60.75
Twin Garden Weathervane 13-07219 $60.75
Cessna Roof Weathervane 13-08162 $58.95
Cessna Deck Weathervane 13-08143 $60.75
P-51 Roof Weathervane 13-11256 $60.75
P-51 Garden Weathervane 13-11305 $60.75
B-17 Garden Weathervane 13-07213 $60.75
Bl Plane Garden Weathervane 13-07214 $58.95
Tri Motor Garden Weathervane 13-07218 $60.75
B-17 Roof Weathervane 13-08078 $60.75
Bl Plane Roof Weathervane 13-08139 $58.95
Bl Plane Deck Weathervane 13-08140 $60.75
Bl Plane Post Weathervane 13-08141 $60.75

SEE OUR WEBSITE FOR A COMPLETE LIST.
FLASHLIGHTS

MAGLITE LED FLASHLIGHTS

MAG-LED™ Technology known for their obsession with precision engineering, craftsmanship and to perfection, was not satisfied with the performance of a “regular” LED as a usable light source. They set their sights on producing a light source that would not only incorporate longer battery life, but would also have the kind of durability, reliability, and performance Maglite® flashlights are known for. With an emphasis on uncompromising performance, MAG-LED™ Technology is the result of that quest.

- LED Mini Maglight 2-cell AA - Black ........ P/N 13-04722 $19.95
- LED Mini Maglight 2-cell AA, w/Holster - Grey Pewter  P/N 13-04917 $19.75
- LED Maglight 2 Cell D hang pack - Black......... P/N 13-04724 $31.75
- LED Maglight 2 Cell D hang pack - Grey Pewter  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 Pewter  P/N 13-04881 $32.80

ACCESSORIES PACK - Includes: Pocket clip, lanyard wrist strap with key ring, anti-roll device, red, clear, and blue lenses.

P/N 13-04727 $3.95

MAGLITE XL 200 LED FLASHLIGHTS

This XL™ SERIES of COMPACT FLASHLIGHTS offers FIVE BASIC, EASY-TO-USE FUNCTIONS plus Advanced Features and the STUNNING BRIGHTNESS of a Next-Generation LED. By the simple “QuickClick” method introduced with our popular Maglite® XL50™ flashlight, the XL200™ lets the user select the desired function. Motion-controlled variable power level and strobe rate. Easy to use. Powerful Projecting LED Beam. Pushbutton tailcap switch. Compact, Pocket Size Design.

<table>
<thead>
<tr>
<th>Color</th>
<th>Part No.</th>
<th>Price</th>
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<tr>
<td>Gray</td>
<td>13-16542</td>
<td>$37.65</td>
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</table>

MAGLITE D CELL ACCESSORY PACK

Mounting Brackets (Fit D-Cell Only) Mount your Mag- Lite® flashlight on a wall, in a vehicle, boat, airplane or home. Lens Holder / Anti-Roll Device This item both retains a colored lens and helps prevent the flashlight from rolling off irregular surfaces. Note: The Lens Holder and Lenses may also be used on “C” cell Mag-Lite® flashlights ................... P/N 13-04886 $8.50

MAGLITE XL50 LED FLASHLIGHT BLACK

Features: Compact, pocket sized design (every day carry). Adjustable LED Beam (Spot-to-Flood). Durable, rugged, machined aluminum case Anodized for corrosion resistance and durability. Intelligent energy source management - continuously monitors the balance between high brightness and efficient power usage allowing for prolonged battery life. Powered by three (3) AAA alkaline batteries (included). Individually serial numbered.

<table>
<thead>
<tr>
<th>Color</th>
<th>Part No.</th>
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<td>Black</td>
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</tr>
<tr>
<td>Blue</td>
<td>13-08993</td>
<td>$32.50</td>
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</tbody>
</table>

NEBO CHAMELEON TRI COLOR FLASHLIGHT

No color filters...no separate heads...and no extra attachments. The Chameleon™ by NEBO offers 3 vibrant colors all in one convenient, compact flashlight. One color changing LED switches from white to green to red with the touch of the glow-in-the-dark On/Off button. The Chameleon™ features a 4x adjustable zoom to change the beam from spot light to flood light with the simple twist of the head. P/N 13-17163 $20.65

VANTAGE VUE WIRELESS WEATHER STATION


Weather Station ........................................P/N 13-11572 $357.00
Mount Pole Kit ........................................P/N 13-11577 $32.50
Mounting Tripod .........................................P/N 13-04569 $89.75
See www.aircraftspruce.com for additional options.

BEND-A-LIGHT

Bend to any configuration and illuminate hard-to-reach areas where conventional lighting cannot go. The incredibly brilliant light beam penetrates anywhere! A must for electronics, automotive, maintenance, repairs, locksmiths, industrial, hobbies, around the house and more. The only complete line of professional quality high intensity flexible light tools. Available in 3 lengths and 3 different lamps to choose from. Made in USA and come with batteries installed.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length Flex Shaft</th>
<th>Length Overall</th>
<th>Batt.</th>
<th>Bulb</th>
<th>Price</th>
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<tbody>
<tr>
<td>12-15005</td>
<td>Mini Pro</td>
<td>5&quot;</td>
<td>11.5&quot;</td>
<td>2-AA</td>
<td>12100</td>
<td>$19.95</td>
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<td>12-15150</td>
<td>Pro</td>
<td>15.75&quot;</td>
<td>24&quot;</td>
<td>3-AA</td>
<td>12110</td>
<td>$30.95</td>
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<td>12-10250</td>
<td>Removable Shaft - 24&quot;</td>
<td>24&quot;</td>
<td>35.75&quot;</td>
<td>2-AA</td>
<td>12110</td>
<td>$22.65</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Dia</th>
<th>Bulb</th>
<th>Life</th>
<th>Price</th>
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<td>13-02730</td>
<td>Blue LED QuiLite</td>
<td>5/32&quot;</td>
<td>4 Hours</td>
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<tr>
<td>13-02729</td>
<td>Green LED QuiLite</td>
<td>5/32&quot;</td>
<td>4 Hours</td>
<td>$8.95</td>
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<tr>
<td>13-02728</td>
<td>White LED QuiLite</td>
<td>5/32&quot;</td>
<td>4 Hours</td>
<td>$8.95</td>
<td></td>
</tr>
</tbody>
</table>

SURE CHECK FUEL LIGHT

Will assist in ensuring your safety every time you strain your fuel prior to flight. At night, it’s safe & easy to use. The Sure Check Fuel Light, when used with your fuel test tube, will light up all the water and debris that might be present. The case is made of durable aluminum, weighs only 2.2 ounces, is 3” long, and uses a 12 volt battery to power a high intensity white LED light build. The casing is sealed with a strong neoprene rubber seal to keep any fuel from leaking into the case. Color: Red. Made in USA. P/N 13-04207 $17.95

FLIGHT OUTFITTERS DUAL COLOR LED PILOT FLASHLIGHT

The Pilot Flashlight is designed for one-hand use with two easily accessible push buttons – one for white LED light and one for red LED light. For those inevitable times when a pilot holds their flashlight with their mouth for “hands-free” use, the Pilot Flashlight also has an innovative soft “bite ring” in Flight Outfitters’ signature orange color. Rounding out the Pilot Flashlight is a wrist-strap to keep the light close at hand. P/N 13-20664 $29.95

WWW.AIRCRAFTSPRUCE.COM
SUREFIRE G2X™ PRO
A polymer-body version of the 6PX Pro, uses a high-efficiency LED—virtually immune to failure since there's no filament to burn out or break—that provides two light output levels: a brilliant, penetrating, perfectly pre-focused 200-lumen beam, and a 15-lumen low-output setting that lets you greatly extend the runtime per set of batteries, an invaluable option when you find yourself miles from civilization. Press the tailcap switch for momentary-on low, press further to click constant-on low, an option when you find yourself miles from civilization. Press the tailcap and has all of the same features for outstanding tactical performance.

SUREFIRE G2Z-MV
SUREFIRE MATERIAL
SUREFIRE G2Z-MV COMBATLIGHT® FLASHLIGHT
SureFire’s single-output G2Zª CombatLight® with Max Vision™ flashlight—designed and built specifically for tactical use—features a proprietary reflector that shapes the high-output LED’s 650 lumens of light into a wide, useful MaxVision Beam™ optimized for your field of vision. With its designed 14 mm bezel, the compact G2Z is even shorter and lighter in weight than its predecessor, generates nearly twice the output, and has all of the same features for outstanding tactical performance.

SUREFIRE LITHIUM BATTERIES
Optimized for use in SureFire flashlights. SureFire lithium batteries pack a lot of power into a small package. And unlike some other batteries SureFire high-performance lithium batteries boast a ten-year shelf life, which means they will be ready when you need them, every time. For all SureFire Lithium battery powered lights.

12 Pack P/N 13-18714 $34.50

2 Pack P/N 13-18715 $4.80

SUREFIRE FLIGHTLIGHT™ - PILOT FLASHLIGHT
A flashlight is a must have for every pilot’s flight bag. In or out of the cockpit, this conveniently sized, long lasting, and durable flashlight serves as a great pilot companion. This 3-in-one LED flashlight toggles between red, green, or white depending on your cockpit needs. With an LED life of 100,000 hours, the included alkaline batteries can keep this flashlight illuminated for up to 17 hours in “red” mode, and 14 hours in “white”.

Flashlight: P/N 13-01067 $17.95

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. It’s so bright, you can dial it down to 1 lumen—or any level in between—for closer work, preserving your dark-adapted vision, or extending the runtime. A large knurled 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

SUREFIRE SIDEKICK RECHARGEABLE
KEY CHAIN FLASHLIGHT
This ultra-compact, powerful LED illuminator was created so it could be carried and used by everyone. The rechargeable Sidekick was designed to attach to keys so it’s always available and, most importantly, ready for everyday use and emergencies. This polymer-bodied light features three levels of output that will provide security and peace of mind, no matter what. On high and operated just like a key FOB, its wide, smooth 300-lumen MaxVision Beam™ illuminates all dark areas at night.

P/N 13-20658 $69.99

SUREFIRE FURY-DFT FLASHLIGHT
The “DFT” stands for dual fuel tactical, and represents the natural evolution of the best-selling Fury® Tactical flashlight into a single-output 5000 lumen light that can also function as a searchlight. The dual fuel feature means the light can be powered by either two 123A lithium batteries or a single economical 18650 lithium-ion rechargeable battery. The high-strength aerospace aluminum body and tailcap are knurled for a secure grip and Mil-Spec hard anodized for extreme resistance to abrasion and corrosion.

P/N 13-21609 $178.99

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.

Blue Light P/N 13-20654 $269.00
Red Light P/N 13-20655 $269.00

SUREFIRE E1B-MV BACKUP™ FLASHLIGHT
The sleek, ultra-compact E1B-MV was originally developed as backup lights for law enforcement pros. This outstanding every-day-carry light sets itself apart from the rest of the Backup family with its broad, useful MaxVision Beamª, created by a special faceted reflector that shapes the LED’s light into a smooth, seamless wall of light that’s perfect for closer-range applications and maintaining situational awareness.

P/N 13-20652 $199.00

SUREFIRE AERO HEADLAMP
This lightweight, dual-output headlamp is ideal for use with a battery pack, wall adapter, or break—that provides two light output levels: a high-efficiency LED that can be used with a battery pack, wall adapter, computer, etc.

P/N 12-04780 $119.95

SUREFIRE WORKBRIGHT INSPECTION LIGHT
This shop light is perfect for places that a flashlight can’t quite illuminate properly. It was originally designed as an inspection light, but has many other uses as well. It is powered through a USB connector, and can be used with a battery pack, wall adapter, computer, etc.

P/N 12-04790 $119.95

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.

PILOT FLASHLIGHTS

See www.aircraftspruce.com for a complete selection of SureFire flashlights.
The XV-C2A offers a compact size and is extremely solid and reliable with its digitally regulated brightness. The XV-C1C offers a remarkably compact size and is extremely solid and reliable with its digitally regulated brightness. One 3 VDC CR123A lithium battery. Two 3 VDC CR123A batteries (Lithium), not rechargeable. Two 1.2 V NiMH batteries. The white light is for general flashlight use, while the red LED is perfect when you only need minimal light, such as when reading in bed. Prevents excessive discharge that can damage lithium cells and may lead to catastrophic incidents. For the XV-C1C LED flashlight. Prevents excessive discharge that can damage lithium cells and may lead to catastrophic incidents. The Ultra-Bright light is provided with 12 energy saving LED bulbs. Made of aircraft aluminum, the flashlight casing is tough and durable. Atractive presentation box included. Size: 4-5/8” Long. Water and Shock Resistant. Push Button Sealed Rubber Switch. Battery Included. Power by 3 AAA batteries (included). Size: (H) 6.375” x (W) 0.562” x (D) 1.25”. 0.1870 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 in bed. The white light is for general flashlight use, while the red LED is perfect when you only need minimal light, such as when reading in bed.

LIGHT BUDDY
Light Buddy its a swivel magnetic mount fits Maglite XL XL 100 or any 1” light. Flashlight not included P/N 13-12078 $19.95

NEBO PAL™ PLUS
The PaL+ is a 3-in-1 powerbank, flashlight and folding knife that conveniently fits in your pocket, purse or briefcase. This portable, rechargeable 400 lumen flashlight also serves as a backup power source for mobile phones and other USB rechargeable electronic devices. The PaL+ also features 3” folding blade, that can be removed for safe travel. Benefits: • Accessories: Micro USB to USB cable included • Batteries: Powered by 1 rechargeable battery (included)
P/N 13-22065 $26.50

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. P/N 13-00571 $19.95

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 Height Control • Energy Efficient -- Up to 320+ hours at the dimmest setting, 12+ hours at the brightest, from one 9V Alkaline • Exclusive brightness regulation circuitry -- keeps the LEDs shining bright as needed. Battery & 20 inch neck strap included. White & Red P/N 13-04696 $32.80 Red & Green P/N 13-04697 $32.80

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 cells.</td>
<td>13-05141</td>
<td>$59.90</td>
</tr>
<tr>
<td>WF-138</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>
</tr>
<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>
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<td>CR123AX2</td>
<td>2 Titanium CR123A batteries are carefully matched and form one single sealed unit. 3 V but double capacity). Used for the XV-C2C LED flashlight. Prevent excessive discharge that can damage lithium cells and may lead to catastrophic incidents.</td>
<td>13-05143</td>
<td>$3.95</td>
</tr>
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**FLITELITE 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 emits in a programmable memory mode, which is user programmable to any brightness level desired.

P/N 13-11259 .......... $46.90

**FLITELITE 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. Green.........P/N 13-11260 .......... $19.95

**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 PAi 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 changing status of flashlight and your USB powered devices. Onyx.............P/N 13-18709 .......... $16.95

**NEBO SLIM FLASHLIGHT**

The NEBO SLIM is a thin, ergonomic rechargeable pocket light that outputs 500 lumens of intense bright light. Equipped with full dimming and Power Memory Recall, the SLIM also features a pocket clip, collapsible hanging hook and powerful magnetic base for convenient hands-free lighting. 3 Assorted Colors (Red, Silver, Black) Nebo MYCRO Pocket Light color is shipped randomly. ........P/N 13-22077 .......... $25.85

**DETACHABLE BULB LIGHTS**

This flexible light is available for the Pilots lap desk or the Fly informed kneeboard & control. Clear ...............P/N 13-00811 .......... $22.30

**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 trying to use 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

**MITILYTE FLASHLIGHT BLACK**

MityLite® 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 MityLite® is ATEX, FM, CSA and AUS approved and water resistant (not for diving applications). Color: Black ........................................P/N 13-02238 .......... $15.60

**BRILA™ 550 LED HEADLAMP**

The Brila 550 LED Headlamp will stay secure for all your outdoor adventures with its included top stability strap and even weight distribution between the front LED and rear battery pack. The easy-to-use focus control adjustment provides a long-distance spot beam or broad flood beam at up to 550 lumens on high and runs for up to 55 hours on low. ........P/N 13-22068 .......... $33.60

**SMITH & WESSON GALAXY 12 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 14-03267 .............. $38.50

**NEBO SLIM FLIP LIGHT**

This dual color headlamp puts the right type of light right where you need it without trying to use 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 14-00020 .......... $3.95

**PETZL TACTIKKA CONSTANT HANDSFREE LIGHTING + RED / GREEN / BLUE**

The Tactikka +RGB is a compact, 250-lumen headlamp designed for activities where stealth is key. This hybrid headlamp is powered by the included 3xAAA/LR03 batteries or by the optional CORE rechargeable battery. It features a long burn time, proximity or focused lighting for movement, and red/green/blue lighting, which is easier on night vision and remains stealth. Red/green/blue lighting is easier on the user’s night vision while remaining stealth. Powerful 250-lumen light has a long burn time. Provides three lighting modes: max autonomy, standard and max power. Slide button operation is easy to use, even when wearing gloves while the headband is easy to slip on and off. Tactikka +RGB hybrid headlamps include three standard batteries, and are also compatible with the CORE rechargeable battery. ..........P/N 11-05096 .............. $59.95

**DUO 5 HEADLAMP PETZL LIGHTS E69**

The DUO lamps are ideal for use in wet environments, but are not designed for prolonged submersion (i.e. diving). Features:
- Waterproof with dual light source: focussable halogen bulb and an LED module.
- Switching on & off, brightness selection, zooming.
- The DUO lamps allow the light to be optimized (distance) according to your needs. Simultaneous use of both bulbs is not possible. Unlocking/locking the bezel.

P/N 11-04996 .............. $99.95

**FLITELITE FINGER LIGHT**

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. White ..........P/N 13-07276 .......... $7.95

Red ..........P/N 13-07277 .......... $6.50
MERGENCY CLAMP  
FLASHLIGHT HOLDER
Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automotive, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for larger flashlights.  
P/N 13-04005 ........... $19.75

MERGENCY-MAGNETIC  
FLASHLIGHT HOLDER
Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automotive, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for larger flashlights.  
P/N 13-04006 ........... $19.75

GEMINI CLAMP  
FLASHLIGHT HOLDER
Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automotive, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for larger flashlights.  
P/N 13-04007 ........... $29.95

GEMINI MAGNETIC  
FLASHLIGHT HOLDER
Astro Arm is the perfect device when you need your flashlight directed precisely while having both hands available to perform a task. These holders are great for aviation, marine, automotive, racing, and emergency lifesaving applications. Available in Mercury models for smaller flashlights and Gemini models for larger flashlights.  
P/N 13-04008 ........... $29.95

GUPPIE MULTI-TOOL
The adjustable wrench jaw opens to 1/2" so you can use it for all kinds of light repair and assembly jobs. Thanks to the carabiner gate, the Guppie is easy to carry on a belt loop, D-ring, pack or rope. (But it is not a weight-bearing carabiner.) The high-carbon stainless steel blade with a Razor-Sharp edge can be opened and closed with one hand using the blade slot. The removable bit carrier is also a high-intensity LED light. It has two strong magnets to hold it securely to the Guppie’s left side. The stainless steel clip will hold the Guppie in your pocket or on gear, which gives a lot of versatility. One more trick: The Guppie carabiner detent will open bottle caps and metal jar lids. Specifications: Blade Length: 2.0" (5.1 cm) Blade Steel: 3Cr13, 52-55 HRC Handle Length: 3.5" (8.9 cm) Tool Weight: 4.1 oz. (116 g) Bit Carrier Weight: 1.2 oz. (34 g) Batteries: Two CR327 3V Lithium  
P/N 13-07358 ........... $38.95

CIGPEN HOLDER - CigPen installation is as easy as 123. Pull the nasty ashtray out, peel the double stick tape, insert and press in CigPen. CigPen was designed to hold two standard pencils or pens along with a Mini Mag Lite AAA. For a very low cost, you can easily turn your existing ashtray into a useful device. Fits C-150, 172, 182 Cardinal.  

DOOR LOCK HANDLE - When you order the CigPen, you will also receive the CigPen. The door lock is made from ABS Plastic. It is engraved with lock, un-lock, and indicating arrows. Fits C-150 airplanes.  
P/N 13-06913 ................ $18.75
LEATHERMAN POCKET TOOLS

LEATHERMAN WINGMAN
The Leatherman Wingman is just that: your go-to tool for projects around the house, on the job, or at the campsite. A great, lightweight, pocket-sized, stainless steel tool; the Wingman features an outside-accessible, one-hand opening blade and newly-designed spring-action jaws. With plenty of handy tools, and backed by a team of designers, assemblers, and manufacturing crew from Portland, Oregon, this is one amazing value. Covered by the Leatherman 25-year warranty.
P/N 13-11705 .................................................. $59.95

LEATHERMAN SQUIRT PS4
The Leatherman Squirt PS4 is the first miniature pliers multi-tool tough enough to be a Leatherman. Now the Squirt also sports a scissors, making it even more useful than before. The key ring attachment offers the flexibility to place it on your key chain, backpack or even a zippered. Just two ounces, it’s light enough to take anywhere. Fits nicely on a key ring. Color: Blue. Weight: 1.9 oz. Length (Closed): 2.25 inches / 5.72 cm. (Closed) Material: Stainless Steel with anodized aluminum scales. Features: • Needle nose Pliers • Regular Pliers • Scissors • 420HC Knife • Wire Cutters • Wood/Metal File • Medium Screwdriver • Flat/Phillips Screwdriver • Bottle Opener • Key Ring Attachment.
P/N 13-11706 .................................................. $34.95

LEATHERMAN SQUIRT ES4
The E4 sets you up with 20GA, 18GA, 16GA, 14GA and 12GA wire strippers and electrical wire cutters. 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

LEATHERMAN JUICE CS4
The Leatherman Juice CS4 is our second largest Juice model, and just like its bigger brother, it’s the perfect size for a purse, pocket, glove- or tackle-box. Smaller hands will appreciate all the same power and features as other full-size multi-tools, with handles sculpted just for them. The colorful Juice CS4, now available with textured aluminum handles in both Granite and Columbia, might just make the “junk” drawer into the “I-don’t-need-anything-but-my-Leatherman-in-here” drawer.
P/N 13-05561 .................................................. $79.95

LEATHERMAN SKELETOOL, CX

LEATHERMAN SKELETOOL

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
Needlenose Pliers, Regular Pliers, Wire Cutters, Hard-Wire Cutters, Clip-Point Knife, Serrated Knife, Saw, Scissors, Wood/Metal File, Diamond-Coated File, Large Bit Driver, Small Bit Driver, Large Screwdriver, Ruler (8 inch/19 cm), Bottle/Can Opener, Wire Stripper, Lanyard Attachment, Two Double-Ended Bit.
P/N 13-03289 .................................................. $99.95

SIDEKICK

SUPER TOOL 300
P/N 13-11704 .................................................. $89.95

LEATHERMAN REBAR
Optimized for strength and features: Needlenose Pliers, Regular Pliers, 154CM Replaceable Wire Cutters. 154CM Replaceable Hard-wire Cutters, Electrical Crimper, 420HC Knife, 420HC Serrated Knife, Wood/Metal File, Saw, Small Screwdriver, Large Screwdriver, Phillips Screwdriver, Awl w/ Thread Loop, Ruler (8 inches/20 cm), Bottle Opener, Can Openers, Wire Stripper.
P/N 13-12777 .................................................. $69.95

LEATHERMAN CHARGE AL
The Leatherman Charge AL includes scissors that slice through just about anything, with bewilderingly sharp edges that allow them to get extra close to whatever you’re cutting. Bit drivers for versatility, diamond-coated files for detailed work, and a 154CM clip-point knife are all housed in 6061-T6, hard-anodized aluminum alloy handles. The Charge AL takes the idea of a multi-tool up a notch.
P/N 13-04515 .................................................. $139.85

LEATHERMAN CHARGE + TTI
Lightweight and made of premium materials, this upgraded version of the original includes replaceable wire cutters. One of the more popular tools, the Charge Plus TTI is ready for jobs big and small. This practical multi-tool combines some of our most requested features with premium materials and upgraded, replaceable wire cutters. Titanium handles make the tool lightweight and strong and an ultra-sharp S30V steel knife blade resists corrosion…………………..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

Prices Subject to Change Without Notice
WIRE MARKERS – SAFETY STEPS

TANA WIRE MARKERS

Tana Wire Markers are large fiber-glass balls which can be attached to power lines to warn aircraft of the location of the wires. They meet FAA specifications, feature easy installation and universal attachment, withstand the elements for over 10 years, require no maintenance, do not slip, chafe, oscillate, or cause electrolysis or vibration. Stocked in 9", 12", and 24" sizes. Larger sizes available on request. Color: international orange. Stocked in Tana marker style JX. Styles SD, KJ, AR, XL, and BN are available by special order. Please Request a Quote.

24" diameter w/o Tape
20" diameter with Tape
12" diameter with Tape

BIRD DETERRENT - BIRDXPPELLER PRO

The BirdXPeller PRO is a sonic bird repeller that broadcasts a variety of naturally recorded bird distress signals and predator calls that frighten, confuse and disorient pest birds within the effective range. Pest birds cause damage, liability and health hazards. Sonic bird control is a safe, humane, eco-friendly way to get rid of birds from outdoor areas. Sonic repellers use high-definition digital recordings. Customizable settings allow for easy, DIY pest control. Real sounds – digital playback of naturally recorded threats. Covers up to 1 acre. Repels: pigeons, starlings, sparrows and gulls. P/N 13-00091 $222.95

LARGE AIRPORT CONE MARKERS

Avlite's range of airfield cone markers is rotationally-molded using UV-stabilised polyethylene, providing exceptionally long-life without the need for painting.

Large Cone Marker Yellow P/N 11-14012 $72.85
Large Cone Marker Orange P/N 11-14013 $65.00
Mini Cone Marker Blue P/N 11-14014 $37.85

UNIVERSAL SAFETY STEP

P/N 13-18575 $58.75

LO-COMMERCIAL 6 INCH SAFETY STEP

P/N 13-18576 $57.75

COMMERCIAL 8 INCH SAFETY STEP

P/N 13-18577 $74.75

FOLDING SAFETY STEPS


Small........................................P/N 13-18578 $64.75
Large......................................P/N 13-18579 $76.75
Extra Large..............................P/N 13-18580 $105.75

HANDLE SAFETY STEP

Steel Handle: 34" P/N 13-18581 $124.99

INDUSTRIAL SAFETY STEPS

8 Inches........................................P/N 13-18582 $83.90
10 Inches.....................................P/N 13-18583 $79.85
12 Inches..................................P/N 13-18584 $85.75
15 Inches.................................P/N 13-18585 $89.95

SAFETY STEP ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Price</th>
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<tbody>
<tr>
<td>Safety Step Replacement Strips for 12x19 Deck Fits Models: 13-18576</td>
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<td>Safety Step Glow Strips</td>
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Prices Subject to Change Without Notice

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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.

**Description** | **Part No.** | **Price**
--- | --- | ---
Jackie Dreamy White Watch | 13-11392 | $535.50
Jackie Sunset Pink Watch | 13-11394 | $535.50
Jackie Seaplane Green Watch | 13-11393 | $535.50
Amelia Cloud White Watch | 13-11396 | $314.10
Amelia Runway Black Watch | 13-11395 | $314.10
Elise Anthenian Silver Watch | 13-11390 | $449.10
Elise Egyptian Gold Watch | 13-11399 | $499.10
Elise Tahitian Two Tone Watch | 13-11397 | $449.10
Katherine Sky Blue | 13-18054 | $495.00
Katherine Royale | 13-18055 | $495.00
Katherine Storm | 13-18056 | $495.00
Katherine Rose Sun | 13-18057 | $495.00
Katherine Frequent | 13-18058 | $495.00

**VISIT OUR WEBSITE FOR OUR COMPLETE CITIZEN PRODUCT LISTING.**

**RADIANT TECHNOLOGY PILOT WATCH**
Radiant Instruments introduces its first pilot watch. The unit provides a suite of pilot functions, and also has a bucketload of features that consumers desire.

**Features:** As with all Radiant products, the LCD screen is huge and legible. The functions include: • Altimeter (with history) to 30,000 feet • Barometer (with history) • Compass (with declination adjustment) • Temperature • and, of course, time......P/N: 10-06867 $94.75

**VIBRALITE MINI BLACK**
The smallest, high quality, user friendly Vibration Alarm Watch available. Vibration, Audible or Both Set easily in Option Mode. Text on display prompts you. Button Alert feature will confirm your setting quickly. 12 Daily Alarm Settings 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 & Loop Band....P/N: 11-11137 $51.75

**VISIT OUR WEBSITE FOR OUR COMPLETE ABINGDON PRODUCT LISTING.**
SUNGLASSES

RAY-BAN AVIATION SUNGLASSES
Ray-Ban is the leading brand in the high quality sunglass market segment and by far the best-selling sunglass brand in the world. It is an all American Brand created 1937 with the Aviator style, developed for use by the pilots of the U.S Air Force.

SCHYEDEN FIXED HYBRID COMPOSITE SUNGLASSES
Stylish composite frames have been combined with HiNiHg (High Nickel Silver) temples and HiNiHg (High Nickel Silver) temples enabling full wrap frames that fit comfortably under a helmet without disturbing the ANR seal. The frames will easily slide down the wearers nose and back up again to adapt to changing light conditions with the push of a finger. Scheyden Deluxe Case Pack is included. $259.00 ea.

SCHYEDEN FIXED GEAR WAYLITE SUNGLASSES
A timeless style mixed with aviation specifications. The Waylite is fashionable and durable. A first of its kind, the Waylite is an ideal fit for a wide range of facial sizes. Anti-Reflective, Anti-Glare and 100% Protection from UVA & UVB.

FRAME STYLES

Description | Part No. | Price
--- | --- | ---
Black Bronze | 13-19030 | $169.00
Black Bronze Polarized | 13-19031 | $199.00
Black Gray | 13-19032 | $169.00
Black Gray Polarized | 13-19033 | $199.00
Havana Tortoise Bronze | 13-19038 | $169.00
Havana Tortoise Bronze Polarized | 13-19039 | $199.00
Havana Tortoise Gray | 13-19040 | $169.00
Havana Tortoise Gray Polarized | 13-19041 | $199.00
Clear Bronze | 13-19034 | $199.00
Clear Bronze Polarized | 13-19035 | $199.00
Clear Gray | 13-19036 | $199.00
Clear Gray Polarized | 13-19037 | $199.00

SCHYEDEN FIXED GEAR LIBERATOR SUNGLASSES
The “Liberator” is a titanium version of the iconic aviator sunglasses, originally developed during the WWII era. This timeless, fashionable, and incredibly durable frame is perfect for those who demand the highest level of precision and quality. Anti-Reflective, Anti-Glare and 100% Protection from UVA & UVB.

Prices Subject to Change Without Notice

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**SUNGLASSES**

**ROTHCO G.I. TYPE PILOT SUNGLASSES**

<table>
<thead>
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<th>Color</th>
<th>Part No.</th>
<th>Price</th>
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<td>Gold/AGX</td>
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<td>Gold/MatteBlack</td>
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**FLYING EYES HAWK SUNGLASSES**
Lightweight, unbreakable Resilamide frames. Soft nose-pad keeps glasses properly positioned and balanced for optimal fit. The included strap and chin is unnoticeable under headsets. Standard Temples for everyday use. The included micro-thin Temples for use under a helmet or head set Wraparound style gives a wider viewing angle than most frames. Optically correct, shatterproof polycarbonate lenses with 100% UV400 protection. Glossy Black Frame/Solid Grey Lens P/N 13-16455 $169.00
Glossy Black Frame/Gradient Lens P/N 13-16453 $170.00
Matte Black Frame/Solid Grey Lens P/N 13-16456 $175.95
Matte Black Frame/Gradient Lens P/N 13-16454 $179.00

**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 frames contour the head and allows for the seal of noise canceling earpieces to be maintained. The “wrap” or curvature of the frames and lens 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. The Lens: Gold/Gray Lens 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 Sunglasses® 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.

**CONCORDE** – The Concorde features the world famous tear drop aviator lens design, monobloc hinge design, skull temple bars, and non-slip silicone nose pads. A very popular sunglasses style with lenses that are convertible for prescription lenses.

<table>
<thead>
<tr>
<th>Size</th>
<th>Lens</th>
<th>Part No.</th>
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</tbody>
</table>

**VISIT OUR WEBSITE FOR MORE SUNGLASS OPTIONS.**

**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 dusk to preserve your night vision.

**LARGE AVIATOR SUNGLASSES**
- Base Curve: 6 • Temple Length: 140mm.
- Lens Size: 61.75 x 55.5 x 68mm, DBL 10.5mm Black
- P/N 2121 $99.95

**DANTE SUNGLASSES**
- Base Curve: 8 Rx • Temple Length: 130mm • Lens Size: 63 x 38 x 64mm, DBL 15mm • Frame Features: Wire-Flex Technology and Adjustable Nose Pads
- P/N 13-15083 $225.00

**MEDIUM AVIATOR HENNA SUNGLASSES**
- Base Curve: 6 • Temple Length: 140mm/Spring Hinges • Lens Size: 59.3 x 51.5 x 67.02mm • Distance Between Lenses (DBL) 12.5mm ..P/N 14-01823 $168.00

**RANDOLPH**
Randolph Engineering has been a leading supplier of military sunglasses to the U.S. Armed Forces since 1982. These sunglasses are the choice of America’s Top Gun pilots and NASA astronauts. They meet demanding U.S. military specifications, provide superior glare protection and UV absorption and can be converted to prescription lenses. All of the sunglasses below feature 23K gold plated, hand polished frames and come with a crush resistant case.

**AVIATOR – Standard issue for military pilots worldwide. (MILSPEC. 25948).** These lenses sharpen detail and show colors evenly, making them ideal for flying. Bayonet temples provide optimum fit for use with a helmet or headset.

<table>
<thead>
<tr>
<th>Size</th>
<th>Lens</th>
<th>Part No.</th>
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<tbody>
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</table>

**VISIT OUR WEBSITE FOR MORE SUNGLASS OPTIONS.**

**VISIT OUR WEBSITE FOR MORE SUNGLASS OPTIONS.**

**VISIT OUR WEBSITE FOR MORE SUNGLASS OPTIONS.**
FLIGHT OUTFITTERS BUSH PILOT WALLET

The Bush Pilot Wallet is canvas with leather accents, and has a clear window that can display both a Pilot’s License and a Driver's License. The wallet comes in a Flight Outfitters-logoed tin box, perfect for storing charger cables and other miscellaneous items in a flight bag. Features include six credit card pockets and a divided bill fold.

Features:
- 6 credit card slots
- 2 clear ID holders
- Divided billfold
- Measures 3.5” x 4.5” x 1”
- Wallet is packaged in a custom tin for gift giving.

P/N 13-21893 - $29.95

These aviator glasses come with a simulated fleece collar. They are classic bomber, complete with nylon flight lining and polyester batting interlining for warmth. Front closure storm flap. Knit collar, wristband, and Ariaprene, this moisture wicking liner draws sweat away from the wearer's head. Pure Optics Goggle - The Anti-fog UV lens provides premium optics, reduces glare and supports a wider field of vision. TPR molded Visor Retainers is mounted on the shell to keep the visor from sliding off the helmet.

Features:
- Snap Lock TPR - This rear mounted TPR strap secures the shield and utilizes a button snap closure system.
- Extreme temperatures. • Headset integration - The AV-1 KOR's shell is designed to fit a wide variety of communication units to suit the wearer's aviation needs. • Snap Lock TPR - This rear mounted TPR strap secures the shield and utilizes a button snap closure system.

VISIT WWW.AIRCRAFTSPRUCE.COM FOR PINK MA-1 JACKETS.

<table>
<thead>
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Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM

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).

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CWU - 45/P FLIGHT JACKET


Black: P/N 13-00559 - $139.95
Gun Metal Grey: P/N 13-09482 - $137.75
Replica Blue: P/N 13-05585 - $137.75
Airforce Green: P/N 13-00572 - $139.95

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, wristband and cuffs. Combination utility pocket on sleeve. Pilot’s MA-1 reverses to high visibility Indian Orange for use in emergencies.

Black: P/N 13-00544 - $137.75
Navy: P/N 13-00546 - $137.75
Sage: P/N 13-00547 - $137.75

MA-1 JACKETS WITH PATCHES

This is a well made reproduction of the famous MA-1 green nylon quilted. Same patches as our children's bomber jacket.

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<tr>
<td>Youth</td>
<td>13-06434</td>
<td>$48.95</td>
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</table>

These are a Flightline original. They’re a reproduction of a classic bomber, complete with simulated fleece collar. They are sturdily made with many special touches that make it unique, such as an airplane zipper pull, authentic aviation patches & colorful graphic map liner.

YOUTH BOMBER JACKETS

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<td>$48.95</td>
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</table>

These are a Flightline original. They’re a reproduction of a classic bomber, complete with simulated fleece collar. They are sturdily made with many special touches that make it unique, such as an airplane zipper pull, authentic aviation patches & colorful graphic map liner.

CHILDREN’S 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).

See www.aircraftspruce.com for complete list of helmets and sizing charts.

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
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 repellant outer shell, Poly fiberfill lining and 4 front slash pockets. Rothco's Flight Jacket has an extra full cut. Sizes and colors do vary.

<table>
<thead>
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<td>Medium</td>
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G-1 LEATHER FLIGHT JACKET


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NOMEX 45/P-36/P MIL-SPEC FLIGHT JACKET

Made in USA, this true Mil-Spec flight jacket currently issued to U.S. Air Force Pilots. Made from fire-resistant Nomex material, this jacket is engineered to exceed incredibly tight tolerances and military requirements. Color: Sage. NOMEX fire resistant fabric, zipper tape, knit cuffs and waistband. Tonal Velcro patch. Front zipper closure with storm flap. Fully lined double-stitched cargo pockets with Velcro closure. Made to military specification.

<table>
<thead>
<tr>
<th>Size</th>
<th>Color</th>
<th>P/N</th>
<th>Price</th>
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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 zippered utility/pencil pocket. If you are looking for a quality jacket that isn’t just like the one everyone else has, then this is certainly worthy of your consideration. Just think of all the conversations you can have with this jacket. Color: Sage.

<table>
<thead>
<tr>
<th>Size</th>
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<th>Price</th>
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<td>XL</td>
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B-15 FLIGHT JACKET

The B-15 is a classic flight jacket made tough to battle the harsh elements. Features a nylon shell and removable synthetic mouton fur collar. The Alpha B-15 features button tabs once used by pilots to connect oxygen masks and headset wires. Water repellent 100% nylon flight satin outer shell and polyester filled lining. Front zipper closure with storm flap. Knit cuffs and waistband. Alpha signature utility/pencil pocket Color: Black.

<table>
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<th>Price</th>
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AERO SQUADRON LEATHER FLIGHT JACKET

The leather is treated to make the jacket look as if it were issued to your grandfather in WWII and stored in the attic until this week, soft and comfortable. A great way to outfit Dad, Son and teenage Grandson. Color: Brown Antique Lamb.

<table>
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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>
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<th>Navy Part No.</th>
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</table>

AIRCRAFT SPRUCE POLO SHIRTS
These are the same high quality polo shirts worn by the Aircraft Spruce Staff at Oshkosh, Sun ‘N Fun and other airshows. Made from Dry-Excel™ close-hole Micromesh polyester knit, with a fine gauge rib-trim collar. Three button front, open hem sleeves, and split side welts make these polos great for polo shirts worn by the Aircraft Spruce Staff at Oshkosh, Sun ‘N Fun and other airshows. Made from Dry-Excel™ close-hole Micromesh polyester knit, with a fine gauge rib-trim collar. Three button front, open hem sleeves, and split side welts make these polos great for everyone. These polos feature the Aircraft Spruce logo on the left chest. Machine washable.

<table>
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<th>Price</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 with white trim and “Aircraft Spruce & Specialty Co” on left chest.  

<table>
<thead>
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</tr>
<tr>
<td>2XL</td>
<td>P/N 13-01990</td>
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</tbody>
</table>

AIRCRAFT SPRUCE MITTENS
Our lightweight 100% brushed cottonmittens are perfect for aviators. Unlike other mittens, ours features a three button cuff 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.  

<table>
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<tr>
<th>Size</th>
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<td>Navy</td>
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AIRCRAFT SPRUCE PATCH
This is an embroidered patch, oval in shape, and approximately 3-1/2" in size. Colors are Red/White/Blue.  

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<tr>
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AIRCRAFT SPRUCE WATER BOTTLE
BPA free 20 oz. reusable aluminum Aircraft Spruce water bottle. Features a leak proof lid and a clip to conveniently attach the bottle to a backpack or belt loop. Size: 8 1/2" x 2 3/4" diameter.  

<table>
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CUSTOM AIRCRAFT MODELS
Recreate your airplane into a beautifully detailed desktop replica. Our Premium Custom Made Models are built to your exact specifications – no detail will be spared. You can have ANY aircraft recreated into a museum quality desktop model with your paint scheme, logos, registration number or any other details and markings. Complete your model with a fully customized stand including your choice of logo and a personalized inscription plaque. We offer over 3,000 different models – both military and civilian. Our desktop models are a maximum of 17” in either wingspan or length. Please allow approximately 6-8 weeks for delivery. 100% satisfaction guaranteed. The Premium Plus Custom Models Include: Full Cockpit and Cabin detail – Instrument panel, yoke, seats, seatbelts and other fine details. Fully Customized Paint Scheme. Your Registration Number. Your Airplane Recreated into a Beautiful Desktop Model. Built to Exact Specifications.  

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WWW.AIRCRAFTSPRUCE.COM
**FLYING GLOVES – GOGGLES – EPAULETS**

**FLYING GLOVES**

**GLOVE SIZING**

Hold your hand out with your fingers together and thumb extended out. Start measuring palm from between the index finger and thumb, continue around the outside of the palm and back around on the inside of the palm making a complete circle with the measuring tape. Total inches around entire palm determines the size glove you will need.

- 6 inches or less, order Size 7
- 6 1/2 to 7 inches, order Size 8
- 7 to 7 1/2 inches, order Size 10
- 7 1/2 to 8 inches, order Size 11
- 8 inches or more, order Size 12

<table>
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**BARMITS 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 palms keep your hands comfortable in the coldest wind. Sized to fit over your gloves.

BatMitts - Reflective Green P/N 13-07306 $118.50

**MARK 4 SILVER CROSS GOGGLES**

All leather face mask, colour matched head bands, Split lenses, bright polished and chrome plated frames, Sliding Nose Bridge Adjustment.

Replacement Lenses for Silver Cross Goggles

<table>
<thead>
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**WORLD WAR II RAF FLYING GOGGLES**

A faithful Replica incorporating dark brown soft leather face mask stitched to the RAF blue painted solid brass frames. The traditional Split Lenses

Replacement Split Lenses - Clear P/N 13-06100 $34.80
Replacement Split Lenses - Tinted P/N 13-06200 $39.75

**VINTAGE AVIATOR GOGGLES**

Soft Brown or Black Leather Face Mask. Hand Stitched to silver or black painted solid brass frames. Screw adjustment on nose bridge.

Replacement Split Lenses - Clear P/N 13-06100 $34.80
Replacement Split Lenses - Tinted P/N 13-06200 $39.75

**NOMEX AVIATOR’S SUMMER FLYING GLOVES**

Gloves which have been worn by American military aviators since the 1960’s, except these have a conductive fabric sewn into the tips (of both the left and right glove) of the middle finger, index finger, and thumb to allow for use with touch screen devices. The palms are made from soft capeskin (hair sheep) that gives you the fine sense of touch you need for flying. The back is made from soft knit of fire-resistant aramid fiber that stretches so the gloves fit snugly. They remain soft and pliable when they get wet. You can even wash them in warm water and hand soap. Measure in inches around the fullest part of your palm. Order the size closest to your hand measurement. Gloves stretch a little, so the fit should be snug.

**NOMEX TOUCH SCREEN COMPATIBLE FLYING GLOVES**

These are the same as the regular Flying Gloves which have been worn by American military aviators since the 1960’s, except these have a conductive fabric sewn into the tips (of both the left and right glove) of the middle finger, index finger, and thumb to allow for use with touch screen devices. The palms are made from soft capeskin (hair sheep) that gives you the fine sense of touch you need for flying. The back is made from soft knit of fire-resistant aramid fiber that stretches so the gloves fit snugly. They remain soft and pliable when they get wet. You can even wash them in warm water and hand soap. Measure in inches around the fullest part of your palm. Order the size closest to your hand measurement. Gloves stretch a little, so the fit should be snug.

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**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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<td>X-Large</td>
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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

**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. 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

P/N 13-06200...

Visit our website for part numbers for Navy & Desert Tan Gloves.
**BONE MECHANICS CREEPER**
The Bone™ features a uniquely shaped body which cradles the user between the wheels only an inch or so above the ground. The big, easy rolling wheels are positioned outboard to provide a strong, stable working platform that can't tip or flip the user. The rib-reinforced body is molded of a state-of-the-art, engineering grade co-polymer that resists the effects of common solvents, so cleaning is quick and easy at the end of the job. The smooth, comfortable one-piece design has no cracks, corners or other pinch points, and the outboard wheel pods prevent tipping and flipping. The Bone™ body is a patented design which allows the use of large diameter wheels with specially formulated tires that roll easily over all sorts of obstacles, including rough floors, drop cords and air lines, loose parts and even tools and floor grates. The wheels are fastened to the creeper body with four 5/16" diameter through bolts so they can't pull tear out or break off in any common use situation. One of the most important features of the Bone™ is its wheels, Ordinary creeper wheels are a conventional creeper's weakest point. They're too small, so they get hung up or stopped by even the tiniest obstacles, and they have a real knack for tearing out or breaking off at the worst moment. To add insult to injury, the replacement wheels can cost almost a dollar! The Tail Bone just rolls over obstacles that trip and tip stool exactly where you can do the job at hand comfortably and easily.

**TAIL BONE ROUGH RIDER MECHANICS SEAT**
The Tail Bone Rough Rider is a totally new approach to creeper seats, designed from scratch to be easier to use, more comfortable, and a better value than any other mechanic's stool on the market! The base is a uniquely designed tripod, so it's a naturally stable working platform even on uneven floors and surfaces. And because it turns with the user, the legs always stay out of the way and let you tuck your feet under you for comfort or convenience. The tripod design also means fewer wheels to have to roll over obstacles! The Tail Bone Rough Rider uses the casters from the Bone Rough Rider Creeper, which are 5 3/8" diameter and 1 3/8" wide, perfect for using outdoors in less than perfect circumstances. It also has an extra inch of ground clearance over the standard Tail Bone! The bucket seat works just like the ones in high performance vehicles, it lets you use your natural body movements and trunk strength to position yourself and the stool exactly where you can do the job at hand comfortably and easily.

**RED VIPER AIRPLANE POSITIONER**
- Own a small airplane? Having trouble positioning it around in your hangar, garage, etc.? Try RED VIPER Positioners™ they really work! Will hold up to 6000 lbs on a 3 tire airplane. Extremely LOW to the ground (only 1/2 inches ground to dolly) so wheel assembly clearance & tire fenders are never an issue. The base panels are only 3 1/2 inches height. Supports tire thicknesses up to 9 inch & wheel diameter up to 26 inches. Just roll your airplane onto dollies & guide 360 degrees effortlessly.

**AEROCREEPER - ADJUSTABLE CREEPER**
Caster options include:
- Standard 3" x 13/16" Hard Rubber
- recommended for most uses on smooth cement floors
- 120 lb dynamic load per caster
- keeps the creeper low for low working positions
- smooth operation
- Heavy Duty polyurethane casters
- More resistant to embedding metal chips & rivets
- 250 lb dynamic load per caster
- 1-3/16" wide tread helps rolling on rough surfaces
- Available in 3 diameters
  - 3" - Usually the best choice - keeps creeper low for low work
  - 4" - better for rolling on rough surfaces but raises creeper 1-5/8" so it's not as good for low work
  - 5" - better for rolling on rough surfaces but raises creeper 2-5/8" so it's not as good for low work
- $215.00

**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: Black. Features:
- 6 large rubber pads on bottom
- Very rough top surface to keep mechanics safe
- Ice cleats keep you sliding on icy winter conditions
- The Shure-Step II is a stackable step stool • Weight: 10 pounds

**SHURE-STEP® 2-STEP STOOL**
The 2-Step stool is 10 inches high, half as big as the Shure-Step® II, and it’s not as good for low work. Features:
- Durable, lightweight, and stackable
- Shure-Step® II will float • All Shure-Step® products are rated at holding 500 lbs.
- $199.50

**SHURE-STEP® SENIOR STEP**
The Senior Step is 6 inches tall, weighs 9 lbs., rated at 500 lbs. and measures 14” x 14”. Step has a large, 10” x 20” black non-slip sandpaper surface on top of it. Features:
- Durable and lightweight
- Senior Step, can be stacked on top of the Shure-Step® II
- Shure-Step® II will float • All Shure-Step® products are rated at holding 500 lbs.

**LOCK N CLIMB LADDERS**

**ALUMINUM AIRCRAFT FUELING LADDER**
Heavy duty aluminum fueling ladder perfect for aircraft fueling applications. Just the right height to put you in perfect position for low-wing or high-wing aircraft. Made of high quality aluminum and will stand the test of time. Features:
- Step Ladder
- + Ladder Height 5 ft. + Number of Steps 3
- Platform Width (In.) 13-1/2 + Height to Platform (Fl.) 3 + Bottom Width (In.) 20 + Base Spread (In.) 34 + Step Width (In.) 3 + Shipping Weight: 5.8 lb + Alum Tread. + Ladder Capacity: 300 lb + Aluminum, ANSI Type 1A + Includes Heavy Duty Standing Platform.

**SEE WWW.AIRCRAFTSPRUCE.COM FOR MORE LOCK N CLIMB LADDERS**

**ALUMINUM AIRCRAFT FUELING LADDER**

**Prices Subject to Change Without Notice**

**WWW.AIRCRAFTSPRUCE.COM**
Just plug and play ... and you’re ready to go! Flight Sound X is designed to be as easy to use as possible - no additional software, no batteries, no external power sources - just one standard USB cable. Just 'plug and play!' When users have finished with the device, simply unplug it, and the computer will revert to its original audio settings. The Flight Sound X adapter is a great accessory for any pilot!

**Features:**
- USB 1.1 and 2.0 compatible
- Plug and Play with Windows 7/ Vista/XP and Mac OS X
- Uses standard General Aviation headset connectors (PJ-068 and PJ-055B)
- Supports headset impedances of 100 to 600 Ohms
- Supports Mono and Stereo Headsets
- Compatiblity with standard microphone types (electret, dynamic and powered dynamic)

Pilots Headset USB Adapter ............... P/N 13-09050 ........... $99.95
Chopper / Military Pilots UCB adapter ....... P/N 13-09051 ........... $115.75

**MICROSOFT FLIGHT SIM DISCOVER ADD ON**
Three of the most popular of the Discover franchise in one package. Includes: Discover Great Britain, Discover Europe, and Arabia.

**Specifications:**
- Required Software: Microsoft Flight Simulator FSX
- Operating System: Windows XP / Vista / 7 / 8
- Processor: 2 GHz or higher
- Memory: 2 GB RAM
- Hard Drive: 1 GB
- Graphics: 256 MB or more
- Other: Free Steam account and broadband connection for online play

P/N 13-19703 .................. $16.95

**X-PLANE 11 FLIGHT SIMULATOR - DVD SET**
Welcome to the world of props, jets, single- and multi-engine airplanes, as well as gliders, helicopters and VTOLs. X-Plane contains subsonic and supersonic flight dynamics, allowing users to predict the flight characteristics of the slowest aircraft or the fastest. X-Plane includes more than 15 aircraft in the default installation, spanning the aviation industry and its history. Aircraft included range from the Sikorsky S-76 and Cessna 172 to the Space Shuttle and the B-52 Bomber. Additionally, some 2,000 additional aircraft models can be downloaded from the Internet, many of which are completely free. If those aren’t enough, users can design their own airplanes and test-fly them!

Included Aircraft:
- Cirrus Vision SF50
- North American X–15
- Beechcraft Baron 58
- Boeing 747–400 and 747–100
- Boeing 737–800
- Lockheed SR–71
- Cessna 172SP
- McDonnell Douglas KC–10 Extender
- Stinson L–5 Sentinel
- Beechcraft King Air C90B
- ASK–21 Glider
- Boeing B–52G Stratot Bomber
- Lockheed C–130 Hercules
- Space Shuttle Orbiter
- McDonnell Douglas F–4
- McDonnell Douglas MD–80
- Sikorsky S–76
- Columbia 400

P/N 17-00348 .................. $69.75

**VOR/NDB SIMULATOR V2.0**
While The Navigation CD-ROM™ teaches the theory behind navigation, VOR NDB Simulator™ enables you to practice real-time VOR and NDB navigation on your computer! You don’t have to worry about altitude control, radio communications, airspace, traffic, or other major tasks, as you would in real flight. Aircraft are expensive to operate, and they make poor classrooms. With VOR NDB Simulator, you’re able to learn navigation techniques on your computer, in an inexpensive and non-distracting environment.

**Features:**
- On-screen instructions are fully-voice-narrated. If there’s only one Simulator Module—you can choose any array of instruments to use, from the Instrument Manager. The Instrument Manager lets you select flight and nav instruments in an education program for pilots, sponsored by the FAA. You’ll not only learn to be a safer pilot on the airport surface—you’ll also be able to prove your commitment to flight safety with your WINGS account.

P/N 13-01437 .................. $69.95
Download Version .................. P/N 13-11402 .................. $64.95

**GETTING AROUND ON THE GROUND**
The only interactive, multimedia tool available that teaches the types of airport markings, signage, and lighting. It also goes beyond simple technical knowledge by outlining hazards, safety tips, and procedures that will help keep you aware, knowledgeable, and safe on the ground. A real-time, 3-D, virtual airport taxi simulator. Get the ATIS, exchange communications with Air Traffic Control, and follow taxi instructions including hold short and runway crossing tasks. Two airports and forty challenging taxi scenarios are included. And, there’s no need for special hardware such as rudder pedals, because you control your aircraft with just a few keys on your keyboard. It’s easy!

P/N 13-01438 .................. $99.00
Download Version .................. P/N 13-11403 .................. $99.00

**AIRBORNE RADAR ONLINE TRAINING**
Airborne-Radar.Com is an online course that teaches how to use airborne weather radar. But, it goes beyond the use of airborne radar, teaching thunderstorm theory, hazards of thunderstorms, airborne radar theory, and airborne radar techniques. A Final Exam concludes the course, enabling the user to test their knowledge. Airborne-Radar.Com is available to PC and Mac users. Most seasoned professional pilots will also admit that there has always been a lack of adequate weather radar training. The mantra has always been, “fly the airplane, and figure it out as you go.” But there’s no reason to continue with that mindset. Now Airborne-Radar.Com provides the only source of interactive, online airborne weather radar training.

P/N 13-10296 .................. $199.00
Download Version .................. P/N 13-11405 .................. $199.00

For more information, please visit our website at WWW.AIRCRAFTSPRUCE.COM

**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**
AVIATION SOFTWARE

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 navigational 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, GPSMap 430, 295 or 395, Garmin G1000 PFD & MFD Advanced........P/N 13-05788 ..........$79.95

GARMIN G1000 TRAINING: IFR PROCEDURES

Advanced, extensive computer-based training program developed with input from Garmin that teaches the skills required to master the operation and confidently fly the G1000 in IFR conditions. Learn how to pull up and fly instrument procedures, load and activate approaches including RNAV and GPS approaches, new WAAS enabled approaches such as LNAV, LNAV/VNAV, and LPV approaches, departures and arrivals, as well as performing course reversals, holding patterns, and executing missed approaches. Complete and comprehensive training allowing the pilot to become proficient in all aspects of using the G1000 and Perspective for instrument flight. There is a revolution sweeping through general aviation. In less than two years, the industry has converted to using the G1000 and Perspective for pilots to understand the many nuances of the Garmin glass cockpit. Garmin G1000 PFD & MFD Advanced........P/N 13-05788 ..........$149.75

MULTIMEDIA SOFTWARE FLITESCHOOL

In terms of speed, graphics, clarity, and learning value, FliteSchool from Jeppesen provides a fast-track to understanding the workings of aircraft and the environment. Reading this book, written by a Master Flight Instructor, any aircraft. Instructors agree that the cockpit is not an ideal learning environment. 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

VTS MULTIMEDIA TRAINING SOFTWARE

VTS training tools are priced affordably to allow each student to own a personal copy of the software. Each aircrafts systems are covered in detail far surpassing that general information provided in Pilots Information Manual. For example, the electrical schematic is presented on-screen just as it appears in its flight planning within the United States, however iFlightPlanner for iPad does support worldwide GPS tracking and color-coded METARs and TAFs. Annual........P/N 13-16354 ..........$89.99 Plus Annual...............P/N 13-16422 ..........$139.99 Quarterly........P/N 13-16355 ..........$24.99 Plus Quarterly........P/N 13-16421 ..........$39.99

IFLIGHTPLANNER SUBSCRIPTION

This is a subscription only.** Email address required for purchase.  iFlightPlanner is general aviation’s most comprehensive suite of easy-to-use flight planning tools for private and corporate pilots. Featuring iFlightPlanner.com, mobile.iFlightPlanner.com and iFlightPlanner for iPad, iFlightPlanner allows pilots to intuitively plan routes, retrieve certified weather briefs, calculate weight & balance and file flight plans from any computer or their iPad. Note iFlightPlanner currently supports the information manual, but instead of just sitting there looking misterious and intimidating, this virtual schematic comes to life with a click of the mouse. Controls and indicators from the cockpit are also available on-screen, creating an animated simulation of the entire system. Aircraft Systems - Warrior........P/N 13-03388 ..........$148.95

KitLog Pro is an organizational tool that allows the builder of any type of aircraft to create, archive, maintain, and display the entire building process. Whether your experimental aircraft is a plan-built EAA biplane, a Van’s RV, a Glastron, or even a Lancair IV-P, KitLog Pro is the most efficient way to ensure that you meet the requirements of a builder’s log for the certification of your homebuilt aircraft.

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 revolution sweeping through general aviation. In less than two years, the industry has converted to shipping 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

FLIGHT OF VOYAGER CD (DICK RUTAN)

This is a recount of the horrific, horrendous, heroic & humorous moments of the Voyager project through the eyes of the pilot Dick Rutan. On Dec. 14, 1986 Voyager took off from Edwards AFB in California and 9 days later landed at the Edwards, completing the first ever non-stop, unrefueled world flight. This 3-CD set (3.5 hrs) includes a mini journal map of the flight, historic photos, fun facts, & more...P/N 13-01163 ..........$34.95

Prices Subject to Change Without Notice

WWW.AIRCRAFTSPRUCE.COM
JEPPSEN FLITESTAR FLIGHT PLANNING

FliteStar VFR includes the functionality to satisfy even the most discriminating VFR flyer with features that include: • Graphical TFR Depiction • GPS upload capability • Point-and-click as well as automatic routing • Routing between VORs, NDBs, airports and user-defined waypoints • Direct and great circle paths • Routing around special use airspace • Color-coded elevation information in the planview and profile views • Terrain avoidance flight planning option • Connection to GTE or DTC DUATS via the Internet • Graphic weather overlays • Printed nav logs, flight log forms, and more • Weight and balance, plus CG location calculations • Dozens of aircraft models and the ability to build your own • Fully compatible with Jeppesen digital MasterPlus VFR and nautical charts • Sunrise and sunset calculator • Color-coded elevation information that can be shown in planview and profile views • Internet or modern connection to CFC or DTC DUATS for current weather and flight plan filing • Auto load function makes installation and NavData updates incredibly easy • All FliteStar products can be easily upgraded. If you buy FliteStar VFR to get started, you can upgrade to the expanded features and capabilities of FliteStar IFR simply by paying the price difference between the two.

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 overwaive, making charts easier to read. Fastest route avoids airspace vertically as well as laterally, when asked to do so. 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 allow you to view weather images, including satellite and radar images, to be shown in moving sequence, thus depicting weather trend information. And, with release v9.0, cloud bases are automatically shown in the profile view when your weather briefing is complete.

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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 airspace. • 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.

HELICOPTER MANEUVERS GUIDE

The Maneuvers Guide provides step-by-step guidance with over 2 hours of video and animated media. Each TFR maneuver is introduced by a designated expert and a detailed graphical animation follows, explaining the maneuvers step by step. Then there is also a cockpit view available showing the flown maneuver from pilot’s perspective! Additionally you can profit from the “Examiner’s Perspective” videos. Here you will get important information about worst errors and see what an FAA examiner expects during the check ride. The software is a great learning tool for students and CFIs alike. System Requirements: • High definition image quality • 1280x720pixel resolution • Runs on Mac and PC (Mac OSX 10 / Windows Vista) • Requires Adobe Flash to download.

Note: This Software does not run on iPad or iPhone min. 1 GB RAM recommended. P/N 13-12737 $99.00

ELITE V8.5 FLIGHT TRAINING SOFTWARE

For years, professional pilots had no choice other than to maintain IFR proficiency in an expensive full flight simulator. By introducing the world’s first professional class, easy to use, PC-based aircraft training system, ELITE offers a completely new way to practice IFR procedures to keep skills sharp.

ELITE Pilot Premium version 8.6 allows pilots of all levels of experience to exercise their flying skills using the power of the personal computer for over two decades. Complete startup and shutdown procedures, fly different patterns or approaches, practice with normal or abnormal situations, or maintain proficiency, in a completely controllable virtual environment with new 2011 system data. …..P/N 13-07341 ..........$199.00

ELITE SIMULATORS

PI 135 • Now use the PI-135 to perform the approaches, holding procedures, and intercepting traffic required under section 61.57(c)(1) for recent instrument experience (Instrument Currency) (PC and monitor 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 included), AOPA ASF Integrated Course Outline and Training Syllabus. P/N 13-07344 ..........$9,485.00

RC-1 • A complete full-featured ATD with life-size, high-resolution instruments, cockpit enclosure, instructor station, and external visual system that displays standard equipment. It’s used by flight trainers in one with included simple, complex, and twin-engine aircraft capability. P/N 13-07345 ..........$4,995.00

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 upgradeable! GPS based on Garmin GNS430. P/N 13-07343 ..........$578.00

ELITE COCKPIT KIT

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 the desks and put them in a more realistic environment. Although the pre-drilled installation holes are universal in nature they are also specific for the Saitek brand of instruments. The Volair Sim flight chassis’ name was derived as a play on the Spanish trainset name which means “Flight Trainset”. 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 add 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 add 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 add 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 add 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 add the near perfect setup for most of our flight simulations.

PI-135 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 included), AOPA ASF Integrated Course Outline and Training Syllabus. P/N 13-07344 ..........$9,485.00

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VINTAGE SIGNS

VINTAGE SIGNS - EPAULETS - IFR SIMULATORS

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 preformed 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

I’D RATHER BE SHOPPING AT AIRCRAFT SPRUCE TREE LOGO - This I’d rather be shopping at Aircraft Spruce tree logo vintage metal sign is made in the United States using 24 gauge American steel and a process known as sublimation, where the image is baked into a powder coating for a durable and long lasting finish. A vintage process is then preformed by hand to give this sign an aged look and feel. The edges of this sign are rounded for extra rigidity and the corners are drilled and riveted for easy hanging. 11.5” x 17.5”....P/N 13-17908......$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 cockpit functions at your fingertips. Now you can control your aircraft like a real pilot would with left hand on the yoke and right hand controlling your throttles to mix and manage the rest of your cockpit. ....P/N 13-00737........$126.75

CH ECLIPSE YOKE

Fully programmable fingertip paddles, ideal for flight and racing simulations. Programmable trim / scroll wheels with center push function. Two backlit push buttons and a third traditional push button.

Two-way hat with rocker switch and trigger on both sides of handle. Configurable POV hat for either left or right hand use. Colored handles for throttle / prop / fuel mixture. Three color LED selector dial giving you a total of 240 programmable functions with CH Control Manager software. Six analog 10 bit axes for aileron, elevator, throttle, propeller pitch, fuel and rudder. New and improved industrial grade material / components; indestructible robust plastic, free floating shaft and clamp extenders for the thinnest of desks. ....P/N 13-06127........$189.75

CH PRO RUDDER PEDALS USB

Features forward/backward slide motion for real simulation flying. Also works well as gas and brake controls for racing simulators. These 3 axes pedals are ideal with the 5 axes USB Flight Sim yoke. ........P/N 13-00738........$125.90

Kit #1 - Yoke and Rudder Pedals

P/N 13-06766........$226.95

CH THROTTLE QUADRANT USB

TWIN ENGINE. Fully programmable and featuring six physical desk axes and up to 350 buttons. Throttle quadrant USB takes you from the computer to the cockpit. Features: 6 Axis 12 Buttons (24 Button functions w/Control Manager Software (included), 6 Physical Detents, Fully Programmable with CH Control manager, Compatible with Windows 98, Windows ME, Windows 2000 & Windows XP. Compatible with all Windows based Games. ..................P/N 13-03377........$128.90

VR400 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 areas, on a desk or small table. Built to rugged specifications, VR simulators will give years of trouble free service. VR simulators are built 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 three video outputs. Microsoft flight simulator program Rudder pedals (USB) VRTR400 Standard Radios. ..........................P/N 13-06760........$8,750.00

VRTR400-G Dual Screen Glass(01000)....P/N 13-06761........$9,150.00

WEATHER STATEMENT GROUNDSCHOOL

A CD-ROM-based course on METAR’s and TAF’s. Nearly 2 hours of stunning, interactive training is provided. Promotes learning through human interaction—not just rote memorization. A remarkable feature is the interactive weather control, 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

WWW.AIRCRAFTSPRUCE.COM

1023
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 64-bit, Vista • 3 axes and 24 buttons – X, Y, and Z axes for Aileron, Elevator, and Throttle control – 4 traditional push buttons – 1 eight direction POH HAT switches • Total of 80 programmable functions with Control Manager software (included) • Simple ambidextrous handle • Dual rotary trim wheels for precise adjustment of ailerons and elevators • Side Throttle wheel • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty
P/N 13-05613 ...........$83.75

FLIGHTSTICK
• Windows 98, ME, 2000, XP, XP 64-bit, 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 POH HAT switch • Total of 176 programmable functions with Control Manager software (included) • Three color mode indicator LEDs on base • Realistic F-16 handle • Dual rotary trim wheels for precise adjustment of ailerons and elevators • Side Throttle wheel • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty.
P/N 13-05615 ...........$129.75

PRO THROTTLE
• Windows 98, ME, 2000, XP, XP 64-bit, Vista • 3 axes and 24 buttons – X and Y axes on miniature joystick – Z axis on accurate throttle sliding motion – 3 traditional push buttons – 1 mode switch button – 3 four direction HAT switches – 1 eight direction POH HAT switch • Total of 176 programmable functions with Control Manager software (included) • Three color mode indicator LEDs on base • Ergonomic left hand HOTAS design • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty
P/N 13-05616 ...........$130.85

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 schedules
• Visual limits lets you see at a glance if there’s any issues with your schedule
• Customer service second to none…And a lot more
Apple/MAC ..................................................P/N 13-11975 ....$99.99
iPhone/iPad ..................................................P/N 13-11976 ....$79.99

COMM 1 VFR/IFR RADIO SIMULATOR
Learning to fly? Not flown for a few years? Talking on the radio is one of the most important, but least emphasized, skills you need to fly safely in today’s busy airspace. COMM1 VFR Radio Simulator is a proven tool for getting you up to speed on communicating professionally with ATC. Flight Services, Flight Watch, and other ground personnel.
6+ hours of training, comprehensive audio-visual tutorials, realistic flight scenarios, interactive practice exercises w/ATC, playback your exchange w/ATC, and compare yourself to an expert. Works with MAC and Windows 8. 486/66 MHz PC processor. 16 MB RAM. 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 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 existing instrument panel template or photograph. Panel Planner tracks total cost, total weight, and peak current, 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, II Morrow, UMA, Mitchell, Trimble, Arnav, S-Tek, Century, Vision Microsystems, Avidyne, Digily, 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 PJP 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

Prices Subject to Change Without Notice
THE JAY BY REDBIRD

Start Up-procedure: 1. Put it on a table. 2. Turn it on. 3. Fly.

Practicing at home is a great idea for pilots. You can keep your skills sharp and your mind in the cockpit even when you can’t make it to the airport. In reality, however, two obstacles deny a majority of pilots effective home flight simulation: purchasing and assembling the right hardware requires a PhD in computer know-how, and after flying around the virtual world for a bit, most pilots get bored. Redbird Flight Simulations, the world leader in FAA-approved flight simulators for general aviation, has addressed both these issues with the Jay. The Jay contains the monitor, speakers, computer and flight controls—all-in-one unit that is ready to fly right out of the box. It boots up directly to a launch screen where you can select your airplane, airport and weather conditions. Push the green button and you’re on a runway and ready to go. Scenario-based training? It’s built in. The Jay is more than a simulator—it’s a flight experience device supporting training, proficiency, and just plain fun! In addition to the free flight mode where you select the aircraft and conditions, the Jay has a scenario mode where you can load a preset scenario and fly it. A scenario could range from a simple flight challenge to a complex flight with multiple potential outcomes. For example, a magazine article on an aircraft accident could be linked to a mission where the Jay owner flies that scenario. Redbird Media, a company specializing in curriculum for simulation, will create many of these scenarios in partnership with AOPA Pilot and other training outlets and magazines. The scenario exchange will be open to any company wishing to create scenarios for the Jay. A one-button update on the Jay will load the latest scenarios available for free or that the owner has purchased. The Jay home screen also has a built-in web browser to access scenario add-ons, such as video, or download simulator extensions such as additional aircraft or scenery. The Jay chassis is metal, not plastic. Control smoothness is paramount. The parts should last indefinitely. In addition, there are pilot-centric 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 move. 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. P/N 13-15906 $2,595.00

THE JAY VELOCITY EDITION BY REDBIRD

The Jay Velocity Edition contains all of the standard Jay features, while adding upgraded computing power and robust components to allow it to be used in demanding environments like middle and high schools, museums, and public access kiosks. The clean-sheet design prioritizes one thing for the classroom: Get the student learning with a minimum of fuss. There are no peripherals to configure, no systems to install. Take it out of the box, plug it in, and turn it on. Now say, “preflight complete.” The Jay contains the monitor, speakers, computer and flight controls—all-in-one unit that is ready to fly right out of the box. It boots up directly to a launch screen where you can select your airplane, airport and weather conditions. Push the green button and you’re on a runway and ready to go. P/N 13-20712 $4,041.00

REDBIRD FLIGHT SIMULATORS

Table not included

FAA Approved BATD Simulator

The Redbird TD and TD2 are table-mounted flight training devices that are designed with the erases the advanced flight training tools found on our large simulators and puts it in a desktop device. Whether you are a flight school interested to enhance your training with simulation, or an individual pilot looking to hone your skills and stay current from the comfort of your home or office, the Redbird TD is the perfect solution. With its impressive range of features and training tools, it’s no surprise that it has been FAA approved as a Basic Aviation Training Device. The Redbird TD represents a generic single engine piston aircraft. It is available in either glass or steam gauge configurations. Ergonomically Correct Design

The Redbird TD is the first table-mounted flight training device, designed with the ergonomics of flight in mind. Traditional “desktop” flight training devices sit on top of a table or desk, causing the pilot to reach up for the yoke and to look unrealistically high for the gauges. The TD’s unique mounting system allows it to be hung under the table, placing the yoke, switches, gauges and visuals in the correct and most realistic position for the pilot.

Features:
• 90-day warranty with optional 1 or 2-year extended warranty
• Interchangeable instrument panel - traditional or glass configurations
• Complete terrain and airport database
• Equipped with computer, monitor, instrument panel, keyboard and speakers
• Ergonomically correct design which easily slides onto a sturdy, solid table
• FAA Approved BATD with optional rudder pedals
• Failure Hotkeys

Room Requirements:
You will need a sturdy, solid table with a maximum tabletop thickness of 2.25” including any rails and the underlying structure. There should be at least 29” 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

REDBIRD TD BY REDBIRD

OPTIONS

TD & TD2 Sims. Come with a single screen. This kit adds 2 side screens for a panoramic view. P/N 13-15870 $1,695.00
Redbird Table For TD And TD2 P/N 13-15860 $629.00

OTHER REDBIRD SIMULATORS

Part No. Model No. Description Starting Price
13-15899 Redbird LD Wrap around visuals without cockpit enclosure $32,800.00
13-15890 Redbird SD Enclosed similar to FXM, but no motion $42,800.00
13-15891 Redbird FMX Full motion, enclosed cockpit, flagship model $64,800.00
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13-19642 Redbird Single Engine Vernier Throttle Quadrant $575.00
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**World Aeronautical Charts for Alaska**

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### INSTRUMENT NAVIGATION CHARTS

**AERONAV ENROUTE LOW ALTITUDE CHARTS**

Enroute Low Altitude charts (Conterminous U.S. and Alaska) provide aeronautical information for navigation under instrument flight rules below 18,000 feet MSL. Information includes: airways, limits of controlled airspace; position, identification, and frequencies of radio aids to navigation (Alaska 4-color series includes geographic coordinates); airports with terminal air/ground communications; minimum enroute and obstruction clearance altitudes; airway distances; reporting points; special use airspace areas; military training routes. Scales vary from 1 inch = 5nm to 1 inch = 20nm, 50 x 20 inches folded to 5 x 10 inches. Revised every 8 weeks. Area charts, which show congested terminal areas at a large scale, are included with subscriptions to any conterminous U.S. Set Low (Full set, East or West sets). Chart L-28 covers the Washington-Boston corridor at a scale similar to an Area Chart. Charts are revised every 8 weeks. Enroute Low Altitude Charts... P/N 8070L ........... $4.85/ea.

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P/N 13-08003 .......... $17.50

**NOTE:** When ordering individual charts, complete part number with the chart number. Example: Enroute Low Altitude Chart L-10 is P/N 8070L-10.

For SUBSCRIPTION service, add -SUB (example: 8070L-10-SUB) and a new chart will be shipped and billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require a credit card number on file.

**CHART MASTER**

Chart Master is Aircraft Spruce's online chart selection program designed to tell you exactly which aviation charts you will need for the route you intend to fly. Just plug in the 3 letter airport identifiers for your departure and destination airports, and Chart Master will provide you with a list of all of the charts needed for your route. Select VFR (sectional, terminal, WAC, AFD, or IFR (Low altitude enroute) or both and order any or all of the charts listed by Chart Master. This program is available on line at www.aircraftspruce.com.

**AERONAV IFR ENROUTE HIGH ALTITUDE CHARTS**

IFR Enroute High Altitude Charts (Conterminous U.S. and Alaska) are designed for navigation at or above 18,000 feet MSL. This four color chart series includes: Jet route structure; VHF radio aid to navigation (frequency, ID, channel, geographic coordinates); selected airports; reporting points. (Scales vary from 1" = 78nm to 1" = 30nm. 55 x 20" folded to 5 x 10"). Revised every 8 weeks.

**NOTE:** When ordering individual charts, complete part no. with the chart no. Ex: Enroute High Altitude Chart H1/2 is P/N 8075-H1/2.


For SUBSCRIPTION service: Add -SUB (example: 8075-H1/2-SUB) and a new chart will be shipped and billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require a credit card number on file.
The VNC is used by VFR pilots on short to extended cross-country flight at medium altitudes and at low to medium airspeeds. These charts show aerodrome data, airspace information, radio aids to navigation, air/ground communications, and elevation with contour lines, tints and shaded relief.

**LOW ALTITUDE ENROUTE CHARTS**

Enroute Low and High Altitude charts provide aeronautical information for instrument navigation in the low and high altitude structure of the Canadian Domestic Airspace. The airspace over foreign territory and international waters in which Canada accepts responsibility for the provision of air traffic services, and other areas required for military use. The primary purpose of Enroute charts is to depict radio navigation data to provide rapid and precise location and identification of information requisite to radio instrument navigation.

**CANADA WATERS AND AERODROME SUPPLEMENT (WAS)**

Provides tabulated, textual data and graphical information in support of Canadian VFR charts. Contains an Aerodrome/Facilities Directory of all water aerodromes shown on Canadian VFR charts. Updated once a year in March. P/N 13-04429 $56.75

**CANADA VNC (VFR) CHARTS**

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**CANADA VTA TERMINAL CHARTS**

Terminal area charts provide detailed information in congested air traffic areas. The six charts of the series cover Toronto, Montreal, Vancouver, Winnipeg, Calgary and Edmonton. The latter two are printed back to back. All charts are at scale of 1:250,000.

Emonton/Calgary......P/N 13-04426 $18.75
Montreal..............P/N 13-04427 $18.75
Toronto..............P/N 13-04428 $18.75
Winnipeg.........P/N 13-04430 $18.75
Vancouver........P/N 13-04429 $18.75

**CANADA AIR PILOT**

The Canada Air Pilot contains aeronautical information related to the conduct of the arrival or departure portion of flight instrument approach procedures, standard instrument departure procedures and noise abatement procedures. The publications are updated every 56 days. CAP GEN contains general pages for all volumes except CAP 6. CAP GEN is amended and reissued as required.

Note: The charts listed below are always shipped as required.

For a complete image of the area map above, please visit www.aircraftspruce.com.