

OXYGEN SYSTEMS



Aerox 2D system

Aerox 4M system

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). Oxsaver 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.

500 SERIES REGULATOR - AN AIRCRAFT SPRUCE EXCLUSIVE!



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

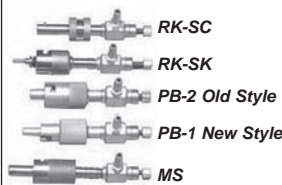
COMPLETE AEROX SYSTEMS (ADJUSTABLE FLOW)

Part No.	Model	Description	Price
13-18895	1A	1 outlet, 6 Cu Ft. Cyl. w/Flow Meter & Cannula	.
13-18896	1C	1 outlet, 9 Cu. Ft. Cyl. w/Flow Meter & Cannula	.
13-18897	1D	1 outlet, 13 Cu Ft. Cyl. w/Flow Meter & Cannula	.
13-18898	2A	2 outlet, 6 Cu. Ft. Cyl. w/Flow Meters & Cannulas	.
13-18899	2C	2 outlet, 9 Cu Ft. Cyl. w/Flow Meters & Cannulas	.
13-18900	2D	2 outlet, 13 Cu. Ft. Cyl. w/Flow Meters & Cannulas	.
13-18901	2E	2 outlet, 22 Cu Ft. Cyl. w/Flow Meters & Cannulas	.
13-18902	2M	2 outlet, 22 Cu. Ft. Cyl. w/Flow Meters & Cannulas	.
13-18903	4C	4 outlet, 9 Cu Ft. Cyl. w/Flow Meters & Cannulas	.
13-18904	4D	4 outlet, 13 Cu. Ft. Cyl. w/Flow Meters & Cannulas	.
13-18950	4E	4 outlet, 22 Cu Ft. Cyl. w/Flow Meters & Cannulas	.
13-18906	4M	4 outlet, 22 Cu. Ft. Cyl. w/Flow Meters & Cannulas	.
13-18915	6M	6 outlet, 22 Cu Ft. Cyl. w/Flow Meters & Cannulas	.
13-18905	6F	6 outlet, 33 Cu. Ft. Cyl. w/Flow Meters & Cannulas	.

AEROX ACCESSORIES

P/N	Description	Price
13-18910	CC Oxsaver Cannula	.
13-18960	MSK-C Rebreather Mask (Child)	.
13-18920	CR-A Regular Cannula	.
13-18970	Metal Clamp Bracket for 13 or 22Cft cyl	.
13-18930	CR-C Reg. Cannula (Child)	.
13-18940	MSK-A Rebreather Mask	.

AEROX BASIC RETRO FIT KIT



FITTING IDENTIFICATION CHART (Not Sold Separately)

AEROX RETROFIT KITS FOR BUILT-IN SYSTEMS OR OTHER PORTABLES

The Aerox® Retrofit Kit consists of 3 parts:

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

Model	Retrofit Kits	Part No.	Price
RK-SC	Retrofit Kit plus Scott type fitting SC	13-18992	.
RK-PB-1	Retrofit Kit plus Puritan-Bennett type fitting	13-18994	.
RK-PB-2	Retrofit Kit plus Puritan-Bennett type fitting	13-18995	.
RK-SK	Retrofit Kit plus Sky-Ox fitting (new style)SK	13-18996	.
RKPCPC	Kit with CPC fitting for Cirrus	13-05152	.
RK-SC	RK-SC with - Flow Meter Needle Valve Option	13-05582	.

AEROX GLOW IN THE DARK FLOWMETER AND GAUGE

AEROX'S PATENTED GLO-TEC FLOWMETER - Precision Adjustable, Direct inline oxygen flow indicator with photoluminescent technology for extended night-time visibility.

PN 13-05251

AEROX'S PATENTED GLO-TEC PRESSURE GAUGE - Pressure Gauge, 0-3,000 PSI, Rear Mount, with photoluminescent technology for extended night-time visibility.

PN 13-05250



AEROX PRO-O2 EMERGENCY HANDHELD OXYGEN SYSTEMS

In the event that the primary oxygen system fails, the Pro-O2 provides oxygen until the aircraft can reach a lower altitude. And because Pro-O2 is refillable, there is no need to purchase replacement O2 cartridges.

During short flights at altitudes between 12,500ft. MSL and 14,000ft. MSL where maneuvering over mountains or turbulent weather is necessary, the Pro-O2 emergency handheld oxygen system provides oxygen to extend these brief legs. Included with the refillable Pro-O2 is a regulator with gauge, mask and a refillable cylinder.

Pro-O2-2 (2 Cu. Ft./1 mask).....P/N 13-02735

Pro-O2-4 (2 Cu. Ft./2 masks).....P/N 13-02736



AEROX SILICON MASKS

Upgrade from a Scott mask with dynamic or carbon mic with these lightweight (4 oz.) silicon, quick donning masks. Very comfortable and includes 5 ft. of tubing and mic plug. Specify small, medium, or large. Effective up to 25,000 ft.

Description	Part No.	Price	Description	Part No./	Price
Small w/ Mic	13-01020	.	Small No Mic	13-04963	.
Medium w/ Mic	13-00413	.	Medium No Mic	13-00414	.
Large w/Mic	13-01019	.	Large No Mic	13-04964	.



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.

Description	Aerox No.	Part No.	Price
Small Without Microphone	4110-711-1	13-06652	.
Medium Without Microphone	4110-711-2	13-06653	.
Large Without Microphone	4110-711-3	13-06654	.
Small	4110-712-1	13-06655	.
Medium	4110-712-2	13-06656	.
Large	4110-712-3	13-06657	.



AEROX SMOKE GOGGLES

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

P/N 13-06173.....

Soft Case..... P/N 13-06174.....



BR-M AEROX BRACKET

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

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' high-pressure (3000 psi) braided stainless filler line, contents gauge, flow restrictor and adapters to fit Puritan-Bennett, Scott, and CGA 540 filler ports. P/N 13-04534.....

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

OPTIONAL BUILT-IN ADAPTERS

Image	Description	Part No.	Price
	Aerox Scott Built-in Adapter Option (Piper, Beech, Mooney)	13-04536	.
	Aerox Puritan-Bennett Built-in Adapter Option (all other makes)	13-04537	.
Portable System Filling adaptors for standard CGA 540 supply cylinders:			
	Aerox Scott Portable Filling Adaptor	13-04538	.
	Aerox Puritan-Bennett Portable Adapter Option	13-04540	.

OXIMETERS - FACE MASKS

AEROXIMETER



Developed at the request of one of the major aviation manufacturers, this new product protects you from the 2 major biological dangers of flight: Lack of oxygen and carbon monoxide poisoning. The system uses an electronic light to measure the oxygen saturation in your blood. It easily slides on your finger and gives continuous updates on the pilot and copilot's blood oxygen levels and heart rates. This system also constantly measures the amount of carbon monoxide in the cockpit and displays 3 levels. Carbon Monoxide is an odorless and tasteless gas. Without a proper electronic warning system, it can very quickly cause drowsiness and unconsciousness. Size: 1-3/8" thick X 5" w X 2-5/8" h.

CO/LOW OXYGEN 1-PL..... P/N 13-02717
CO/LOW OXYGN 2 PL P/N 13-02718.....

FLIGHT STAT PULSE OXIMETER



Know the symptoms of in-flight hypoxia and evaluate your pulse rate and blood oxygen saturation with the FlightStat® Pulse Oximeter. FlightStat provides an easy and accurate way to check for in-flight hypoxia instantly - providing crucial data before it's too late. P/N 13-03248.....

THE OWL AVIATION OXIMETER



Can detect blood oxygen concentration through the use of a small sensor placed on the tip of a finger or in a headband. The oximeter will determine if the oxygen concentration of the blood becomes too low and alert the pilot of potential hypoxia conditions. At an oxygen saturation of 90%, the OWL will alert the pilot through standard aviation headphones with an audible "caution" message. If the saturation should drop below 85%, the OWL will sound a "warning" message. As an added feature, the OWL will give saturation readings on demand-- at the push of a button. Will also alert the user in the event the batteries become low by an audible "caution" and a visual indication with a red LED. Will "speak" to the user to alert for low blood oxygen saturation. This enables the pilot to concentrate on flying the aircraft instead of requiring the constant monitoring of a display. This can be important when flying IFR, where a pilot must focus on the aircraft instruments. The OWL is also the only oximeter with a sensor intended for continuous monitoring. P/N 13-04284.....

EDS-2IP BUILT-IN PULSE DEMAND OXYGEN SYSTEM



Complete kits that include all you need to do high flight-level cross country flying with ultimate physiological safety. Kit includes the low-profile instrument panel or overhead-mountable EDS 2ip control head unit with a 2.25" X 2.25" form factor, two (2) remote-mountable oxygen outlet distributor units, the new IPR (Intelligent Peripheral Regulator) with our light-weight carbon-fiber-wrapped cylinder with a 48 cu. ft. capacity allowing many round-trips without oxygen refills. In addition, masks, cannulas, as well as necessary hardware and tubing are included. The pilot station comes with our, FAA-CAMI flight-level 250 tested 'Pulse-Demand' ALPS FaceMask that can be upgraded with a noise-cancelling microphone at any time. You can add the Alps face mask with or without microphone for your co-pilot as well.

EDS-4ip built-in Pulse Demand oxygen management systems are complete kits includes everything in the EDS-2IP but with the EDS 4ip control head unit with a 2.25" X 3.125" vertical form factor, and four (4) remote-mountable oxygen outlet distributor units

NOTE: The EDS ip systems automatically operate from a 12 or 24 Volt system at a mere 250 ma. of current. Therefore, if not specified, during your order the IPR will come with a 12 volt valve and the schematics will instruct that it be powered from the control head, via pin-19. The most preferred configuration. Otherwise the valve for the IPR must be specified for either 12 or 24 volt operation if you decide to power the IPR valve through system power and not from the control head.

EDS-2IP P/N 13-05745
EDS-4IP (Shown) P/N 13-05746.....

CHECK MATE II WRISTWATCH OXIMETER



The Check Mate IITM (manufactured by SPO Medical) is an effective and affordable wearable pulse oximeter ideal for spot-checking, during mountain climbing, light jogging and speed walking. Pilots/aviators can also quickly assess their SpO2 while

flying at high altitudes. The Check Mate II wristwatch oximeter offers the features of a conventional oximeter in a compact, lightweight user-friendly wrist-based configuration. The unit accurately measures blood oxygen saturation levels and heart rate. Readings are displayed on the wristwatch unit that sits comfortably on the patient's wrist for maximum convenience and flexibility. P/N 13-05673.....

CHECK MATE PULSE OXIMETER



Easy Spot Check Monitoring of Your Vitals!

SPO Medical's Check Mate™ offers the features of a conventional pulse oximeter in a compact, user-friendly configuration.

Check Mate™ accurately measures blood oxygen saturation levels and heart pulse rate. Pilots love Check Mate™ because it allows them to quickly assess their SpO2 while flying at high altitudes. Hypoxia can be a pilot's worst enemy, and Check Mate™ is a low-cost product which gives pilots peace of mind. Check Mate™ answers the sports and aviation markets' demand for a lightweight, inexpensive monitor for measuring blood oxygen saturation and heart rate during physically active and high-altitude activities. It offers the user a greater ability to monitor these vital signs under motion and is less expensive than most available devices. The unit is designed to utilize very low power for extended usage, eliminating the need for frequent battery replacement.

To operate simply place the sensor on your finger and turn it on. P/N 13-03920.....

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.....

EMOX EMERGENCY OXYGEN GENERATOR



Emox is a dependable lightweight, portable, powdered emergency oxygen system which is not pressurized and has no moving parts and is also non-corrosive, therefore no service or maintenance is required. Both powders are environmentally accepted, have an indefinite shelf life and have no fire hazard and are non-explosive and are supplied in hermetically pilfer proof sealed containers. Unit consists of a nylon carry bag, a specially designed plastic cylinder with operating instructions and a built-in humidifier, 3 x 15 minute white powder applications plus 3 activator catalysts, a face mask with a 1.5 meter tubing and a water measuring bottle. The total unit weighs a mere 1.75Kg.

System w/ 3 Refills P/N 13-06617.....
Refills w/ 4 Powder Charges P/N 13-06618.....

MOUNTAIN HIGH ALPS FACE MASK



FAA-CAMI tested with the EDS-ip system, MH ALPS FaceMask and the MH ALPS-M (for microphone) FaceMask. Outfitted with an electronic "Clear-Speak" ambient noise-cancelling microphone and is compatible with most aircraft systems. 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. Available in small, medium and large.

Available in small, medium and large.

Description	Part No.	Price	Description	Part No.	Price
Facemask Med.	13-04155	.	Facemask w/ Mic Small	13-05134	.
Facemask Small	13-05136	.	Facemask w/ Mic Med.	13-05135	.
Facemask Large	13-05137	.	Facemask w/ Mic Large	13-04156	.

MOUNTAIN HIGH PORTABLE OXYGEN SYSTEMS FOR CESSNAS



"MH FDS O2D2 Pulse Demand FADOC Oxygen Delivery System" is designed for Cessna pilots. The MH EDS O2D2 is the only single unit, portable, two-place, carry-on Pulse Demand oxygen system currently available.

The MH EDS O2D2, with the patented digital electronic "Pulse Demand" FADOC oxygen delivery system, enables the pilot and passenger/crew to fly at pressure altitudes up to 25,000 feet with safety and comfort. The O2D2 digital pulse demand system reduces oxygen consumption dramatically. Different from "standard" constant flow systems, the O2D2 pulse demand system wastes no oxygen during the breathing cycle. Studies show that 90% of the oxygen supplied by the O2D2 is transferred to the blood. The average user will enjoy a conservative consumption drop of four times compared to constant flow systems. The system operates, with two people, for up to 50 hours on three AA alkaline batteries. Easy to use, the two-person O2D2 reduces oxygen system workload to almost nil. There are no oxygen flow indicators to watch or manually operated constant flow valves to adjust due to altitude changes. Two push buttons cycle the O2D2 through the various modes that automatically deliver the required supplemental oxygen pulses for various altitudes.

The complete standard system includes an aluminum oxygen cylinder (buyer has a choice of sizes with upgrades), a cylinder carry case, primary reducing regulator, low pressure service line, connection fittings, the MH EDS O2D2 FADOC unit, breathing cannulas, face masks, and a tote bag.

With Small (4-1/2" DIA) Cyclinder..... P/N 13-05068.....
With Large (5-1/2" DIA) Cyclinder P/N 13-05069.....



OXYGEN SYSTEMS



MOUNTAIN HIGH XCP SYSTEMS

The XCP is a low-cost, high-duration multi-place oxygen system. With the A3 and Oxymizer cannula each person will use at most 1.0 liter/min. at 18,000 ft. This makes it easy to calculate your cylinder life time. Example: If you have 415 liters and four persons and are to cruise at 18,000 ft., you would divide 415 by 4 which equals 103 minutes per person. The flow rate at 18,000 ft. is typically only 3/4 (0.750) liter/minute with the Oxymizer cannula. However, 1.0 liter/minute is used as a worst-case scenario and for calculation convenience. The XCP delivery system consists of: 1 ea. XCP quad-port regulator with self-sealing outlets, 4 ea. XCP face masks (for use with the A4 flowmeter or nasal congestion), 4 ea. Nelson A3 flowmeter/regulators with 3' (three feet) of high quality tubing with CPC connectors and 4 Oxymizer® type "M" nasal cannulas, 1 ea. Oxygen cylinder (AL-415 or AL-682), 1 ea. Tuff-Pack padded fabric carry/strapping case for cylinder and equipment. The XCP system comes with the A3 flowmeter/regulator. It has an altitude/flow scale calibrated for the unique Oxymizer oxygen-conserving cannula. The scale is marked in 2,000 ft. increments for VFR flight levels up to 18,000 ft. You can operate the XCP in IFR flight levels with the optional A4 flowmeter/regulator and associated F1 face masks. This will, however, use much more oxygen. All systems are shipped empty.



Persons	XCP carry-on systems man-hour service time with the Nelson A3 flowmeter and Oxymizer cannula								
	10,000 ft. MSL			14,000 ft. MSL			18,000 ft. MSL		
	XCP 180	XCP 415	XCP 682	XCP 180	XCP 415	XCP 682	XCP 180	XCP 415	XCP 682
1	10:00	23:00	37:53	05:27	12:35	22:40	03:51	08:51	14:34
2	05:00	11:30	18:56	02:43	06:17	10:20	01:55	04:25	07:16
3	03:00	07:40	12:37	01:49	04:11	06:52	01:16	02:58	04:51
4	02:30	05:45	09:28	01:22	03:08	05:10	00:57	02:12	03:38

- XCP-682-4P-FP: 682 liter (24 cu.ft.) 4-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03657.....
- XCP-682-2P-FP: 682 liter (24 cu.ft.) 2-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03658.....
- XCP-682-1P-FP: 682 liter (24 cu.ft.) 1-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03659.....
- XCP-415-4P-FP: 415 liter (15 cu.ft.) 4-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03660.....
- XCP-415-2P-FP: 415 liter (15 cu.ft.) 2-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03661.....
- XCP-415-1P-FP: 415 liter (15 cu.ft.) 1-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03662.....
- XCP-180-1P-FP: 180 liter (6 cu.ft.) 1-pl. carry-on system w/Full-Pack padded cylinder carry/case 13-03653.....



MOUNTAIN HIGH HANDHELD OXYGEN SYSTEM

The Co-Pilot is an affordable, handheld oxygen system designed for supplemental breathing at high altitudes. This system is especially useful for pilots who only occasionally fly at altitudes requiring oxygen and, therefore, do not need a full-featured oxygen system for their aircraft. Unlike similar systems, the Co-Pilot's oxygen regulator has an on/off and volume control knob that is adjustable from off to 2 L/min. The face mask is removable and can be replaced with an Oxymizer cannula for continuous "hands-off" use for more than 30 minutes of duration per cylinder, at 15,000ft. At a glance, the built-in pressure gauge will allow you to see how much oxygen is available at all times. The Co-Pilot system can be shut off and stored with a cylinder installed for more than a year without any noticeable leakage. The basic Co-Pilot kit comes with regulator & gauge, face mask, two 18-liter non-refillable replacement cylinders, and an instruction manual. Options include additional cylinders, Oxymizer cannula, & holster pack.

P/N 13-01016.....

MOUNTAIN HIGH EDS OXYGEN SYSTEMS



The EDS (Electronic Delivery System) is the first supplemental breathing system specifically designed for aviation to employ the tested and well founded pulse-demand method of oxygen delivery. This reduces the amount of oxygen wasted by as much as ten times over constant-flow systems, while providing over 90% blood saturation levels at and well above pressure altitudes of 25,000 ft. The EDS senses and synchronizes itself with your breathing to provide a pulse of oxygen when you benefit from it the most: at the very beginning of your inhalation cycle and not while exhaling, pausing or talking. Measurements show that up to 90% of the oxygen delivered is absorbed directly into the blood stream. A built-in density altitude barometer responds to altitude changes automatically, adjusting the oxygen amount as needed for each breath. The EDS has been hailed by several flight surgeons & physiologists as the most significant development in supplemental breathing devices since the advent of high altitude flying. Mountain High's current digital version, EDS-D1, is about the size of a cigarette pack, and it offers 9 modes of operation. All systems shipped empty.

- TR-95 Transfilling unit w/ variable flow transfer, fitting bleed valve and pressure/contents gauge. P/N 13-03925.....
- TR-75 Transfilling unit w/ "O" ring fittings and bleed valve P/N 13-03924.....
- TR-55 Transfilling unit with hand grip knob P/N 13-03923.....



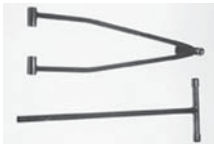
Persons	Man-hour service time with cylinder @ 1,800 psig. with EDS unit(s) using cannula's or face mask(s)								
	10,000 ft. MSL			15,000 ft. MSL			18,000 ft. MSL		
	EDS 011	EDS 022	EDS 040	EDS 011	EDS 022	EDS 040	EDS 011	EDS 022	EDS 040
1	31:06	62:18	113:12	19:05	38:04	69:10	14:24	28:50	52:24
2	15:33	31:09	56:36	09:32	19:02	34:35	07:12	14:25	26:12
3	10:37	20:45	37:44	06:21	12:41	23:03	04:48	09:36	17:28
4	07:45	15:34	28:18	04:46	09:31	17:15	03:36	07:12	13:05

- EDS-022-FP: Kevlar fiber-wound cylinder, EDS unit, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03665.....
- EDS-011-FP: Kevlar fiber-wound cylinder, EDS unit, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03666.....
- EDS-480-FP: Glass fiber-wound cylinder, EDS unit, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03667.....
- EDS-180-FP: Aluminum cylinder, EDS unit, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03668.....
- EDS-040-2P-TF: Kevlar fiber-wound cyl., 2 EDS units, XCR regulator, cannula, face mask, Tuff-Pack & tote bag P/N 13-03669.....
- EDS-022-2P-FP: Kevlar fiber-wound cyl., 2 EDS units, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03670.....
- EDS-415-2P-FP: Aluminum cylinder, 2 EDS units, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03671.....
- EDS-480-2P-FP: Glass fiber-wound cyl., 2 EDS units, XCR regulator, cannula, face mask, Full-Pack & tote bag P/N 13-03672.....
- EDS-D1: Unit only, (less regulator)..... P/N 13-02389.....
- EDS-D1: Kit with XCR regulator P/N 13-02390.....
- EDS-D1: Kit with XCR gauged regulator P/N 13-02391.....
- EDS-D1: Kit with XCR-DIN regulator..... P/N 13-02392.....
- EDS-D1: System with CFF-480 cylinder (1 place) P/N 13-02387.....
- EDS-D1: System with CFF-480 cylinder (2 place) P/N 13-02388.....

PS



GROUND SUPPORT TOW BARS



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



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



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.....



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.....



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.....



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.....



TWIN PIPER - The same as our P/N HH-007 except one piece construction. Overall length 33".
P/N 13-01778.....



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



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.....



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.....



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.....

UNIVERSAL TOW BARS



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

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.....



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



BEECHCRAFT AXLE - This two piece tow bar is designed for use in Beechcraft axles. Overall length 48", collapsed 27".
P/N 13-02215.....



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



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



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



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.....



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.....



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".
P/N 13-02250.....



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



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

FBO UNIVERSAL TOW BAR



This heavy duty universal tow bar is standard equipment for FBO's. It fits 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".
P/N 13-02355.....

AIRCRAFT WINCH & MOUNTING KIT



AIRCRAFT WINCH - Hook cable to tail tie-down ring and press button. Easily moves aircraft up to 3,000 lbs. rolling weight. Includes wall mount. If a floor mount is desired order P/N 13-06124. Order bracket separately. 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 110 DC..... P/N 13-01764.....



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.....



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.....

PS

TOW BARS

BOGERT TOW BARS (BOGI-BARS)



Light enough to stow Built from a combination of steel for maximum durability comfort grips on the handle and spreader bar chip resistant red bar will look great for years. Operation: extend the handle easily with high shear wick release pin apply forward pressure on the spreader bar to open the wishbone jays. Line up the Bogi-Bar attachment at the tow points or axle depending on model.

Release the tension on the spreader bar and you are locked on! The tow bar will not slip off the plane. Reverse for removal.

TAIL WHEEL AIRCRAFT

Model	Fits	Extended Length	P/N	Price
4-API	Aircraft Products Tailwheel	48"	12-02097	.
4-ABI	Alaskan Bushwheel	48"	13-06106	.
04M-XP	Cessna XP Modification	48"	13-06107	.
4-TDG	Scott 3200 & 3400	48"	13-10000	.
4-F24	Fairchild 24, Beech Stagger Wing	48"	13-02410	.
4-RV	Vans RV3, RV4, RV6 & RV8	48"	13-02408	.

NOSE WHEEL AIRCRAFT

Model	Fits	Extended Length	P/N	Price
4-35	Beechcraft- Bonanza, Debonair, Duchess, Duke & Skipper	49"	13-10030	.
4-19/23B	Beechcraft-Musketeer, Sport, Super, Sierra & King Air	48"	13-01808	.
4-17/30	Bellanca-Viking Series	48"	13-01809	.
4-172	Cessna 150, 152, 172, 175, 177, 182, 310R, RV-4	48"	13-10040	.
4-206	Cessna 205, 206 & 207	48"	13-10060	.
4-210	Cessna 172RG, 177RG, 182RG & 210 Series	48"	13-10050	.
4-SR	Cirrus SR 20 & 22	48"	13-06108	.
4-AA	Gulfstream American AA1 & AA5	48"	13-02407	.
4-Lake	Lake Amphibian	48"	13-02411	.
4-Moon	Mooney Aircraft	48"	13-01810	.
4-24/30	Piper Comanche PA-24, PA-30 & PA-39 Also the Cherokee Six axle w/pants if tabs above wheel are broken	48"	13-10010	.
4-22/28	Piper PA-22, & PA-28 Series (Not PA-28R)	48"	13-10020	.
4-28R	Piper PA-28R Series - Hand Pull for dog-leg style	49"	13-02098	.
4-34	Piper Seneca PA34 200/220/220T, and Aerostar 601P *handle extends to 78"	78"	13-01812	.
4-PA46	Piper Malibu & Mirage-Vehicle Pull	72"	13-06112	.
4-RVA	Vans - RV6A, RV7A, RV8A, & RV9A	48"	13-01811	.
4-LANCE	Lance Towbar	48"	12-02099	.
4-20	Diamond DA20	--	13-06111	.
4-DA40	Diamond DA40	--	13-06110	.
4-DA42	Diamond DA42	--	13-06109	.
4-RV10	Vans - RV10	48"	13-04282	.
4-Socata	Socata Style Bogi Bar	49"	13-06113	.
Agusta	Agusta Helicopter.Handle extends to 70"	70"	13-01813	.

BRACKETT AIRCRAFT TOW BARS

MODEL TH-5



The TH-5 is a scaled down version of the TR-3 tractor towbar. Excellent for operators and tee hangar owners who need a towbar which is light-weight (14 lbs), has good large pulling handles, and is sturdy enough for towing Cessna 150's to 310's. Size: 74"L. Wt: 14 lbs.

Ring HitchP/N 13-10110
Ball HitchP/N 13-10111
Clevis HitchP/N 13-01884

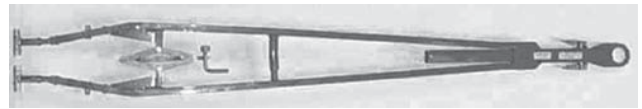
MODEL TR-6



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 HitchP/N 13-10131
Ball HitchP/N 13-10130

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
Ball Hitch (TR-34B)P/N 13-01886
Clevis Hitch (TR-34C)P/N 13-01887
Optional Tail Wheel Adapters TWA-10 (for Scott tail wheels)
P/N 13-10089

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

TH-53R Towbar w/Ring hitchP/N 13-03338
TH-53B Towbar w/Ball hitchP/N 13-03339
TH-53C Towbar w/Clevis hitchP/N 13-03340

MODEL TR-71, 72, & 73



Lightweight aluminum designed for Waco, Stearman, & Cessna 195 type aircraft. Length: 100", Spread: 90", Wt: 22 lbs. Hook dia: TR-71 (.850), TR-72 (1.25)

TR-71B Towbar w/Ball hitchP/N 13-01907
TR-72B Towbar w/Ball hitchP/N 13-01908
TR-73B Towbar w/Ball hitchP/N 13-01909
TR-71R Towbar w/Ring hitchP/N 13-01910
TR-72R Towbar w/Ring hitchP/N 13-01911
TR-73R Towbar w/Ring hitchP/N 13-01912

CUSTOM TOWBARS & OPTIONS FOR UNIVERSAL TOW BARS

Model	Description	Part No.	Price
TWA-10	Scott Tail Wheel Adapter (2 pcs. req.)	13-10089	.
T-MU2-10	Kit-Crank & head assembly for converting TR-34 to TR-44	13-01890	.
TWA-11	Tail Wheel Adapter for DGA-Staggerwing (2 pcs. req.)	13-01891	.
T-4W	Wheel Set (Set of 2) for TR-34	13-01892	.
T-375	Adapter .375" for Aerospatiale-Trinidad, Tabago (2 pcs.)	13-01893	.
T-475	Adapter .475" Outer Diameter (2 pcs. req.)	13-01894	.
T-625	Adapter .625" for Augusta 109 & Others (2 pcs. req.)	13-01895	.
T-750	Adapter .750" for Commander 114, S-76 & Other	13-01896	.
T-Maule	Adapter for Maule Tail Spring (1 pc. req.)	13-01897	.
T-34-04	Shock Absorbing Ring Hitch (1 pc. req.)	13-01899	.
TR-PC	Towbar: Pilatus PC-12, 3 pcs., 30 lbs.	13-01686	.
TR-PCS	Towbar: Pilatus PC-12, 1 pc., 19 lbs.	13-01903	.
TR-S2	Towbar: Ayres: 3 pcs., 18 lbs.	13-01755	.

TOW BARS

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: Hitch Arms for towing, 3rd Wheel for heavier ships, and RV tail wheel lift pin.

Tail-Dragger Dragger™

Features:

- Patented Design
- No Winches
- No Hydraulics
- No Metal To Metal Contact
- No Adapters Required
- Superior Traction

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

Description	Part No.	Price
Standard tail Dragger	13-01510	.
Tail Dragger Towbar Hand/Pin Hitch	13-01520	.
Tail Dragger Towbar Hand/Ball Hitch	13-01530	.
Tail Dragger Dragger Electric RV	13-01823	.
24V Electric Tail Dragger Dragger	13-03736	.
Tail Dragger Dragger Gas	13-01824	.

ACCESSORIES

Descriptions	Part No.	Prices
Towing Hitch Arm - 1-7/8" ball	13-04927	.
Towing Hitch Arm - 2" ball	13-04928	.
Towing Hitch Arm - Pin / Clevis	13-04929	.
Towing Hitch Arm - Ring	13-04930	.
3rd Wheel Assembly	13-04931	.
RV Tail Wheel Lift Pin	13-04936	.
12v Electric Gel Battery	13-06221	.
Dual wheel traction assembly SA-1	13-06222	.

POCKET TOW TAILWHEEL LEASH



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

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
 Electric Powered, 12V (up to 3,500 lbs) P/N 13-05105
 Electric Powered, 24V (up to 6,000 lbs) P/N 13-04304
 Electric Powered, 24V (up to 6,000 lbs) P/N 13-03205

ACCESSORIES

Snow Chains P/N 13-04932
 Battery Charger - 12V P/N 13-04933
 Battery Charger - 24V P/N 13-04934
 Mag-Light / Head Lamp..... P/N 13-04935

EXTRA HEAVY DUTY 6HP GAS TAIL-DRAGGER DRAGGER



This powerful gas tug has an extra heavy-duty frame, an extra center bearing for the axle, a longer handle for better leverage, heavy duty 12 -inch air wheels and will move most tail-draggers up to approx. 7,500 lbs. and tail wheels up to 16 inches in diameter. This is nice for aircraft like Beech-18, Most Ag planes, BT-13, SNJ, T-6, Beaver, Howard, Reliant, heavy Cessna's C-195, C-185, 450 Stearman's, and many other tail draggers.

P/N 13-04390

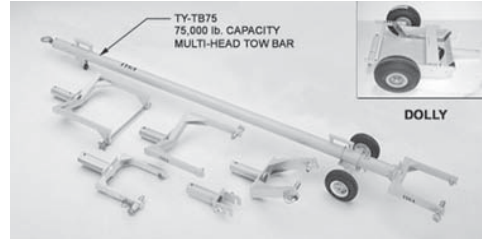
HEAVY DUTY TOW BUDDY CORDLESS POWERBAR



Features: • No Flammable gasoline needed in hangar • Easy To Use • Infinite Speed Control • Versatile Applications • Push button forward and reverse controls • Nose gear quick attach for easy nose gear hook up. • The adjustable fork height fits virtually any light aircraft • Trickle

charger for battery • Large 16 x 6.50 - 8 turf tire • For aircraft weight of 3500 to 4500lbs. P/N 13-04513

BRACKETT MULTI-LINK TOW BARS



User benefits: All tow bars and heads are interchangeable with other popular tow bar systems such as tronair© warranty on all materials and workmanship money saving alternative to multiple tow bars

BRACKETT AIRCRAFT'S MULTI-LINK TOW BAR LINE CONSISTS OF TOW BARS THAT UTILIZE CHANGEABLE HEADS WHICH ALLOW YOU TO TOW A LARGE VARIETY OF TURBO PROP AND JET AIRCRAFT. THE TYGA LINE OFFERS A STANDARD MULTI-LINK SYSTEM FOR AIRCRAFT WITH MAXIMUM TOW WEIGHTS OF UP TO 125,000 POUNDS. ALL HEADS AND TOW BARS ARE INTERCHANGEABLE WITH MANY WIDELY USED MULTI-HEAD TOW BAR SYSTEMS. YOU NOW HAVE A HIGH QUALITY AND COMPETITIVE SOURCE FOR TOW BARS, CHANGEABLE HEADS, AND ACCESSORIES.

Description	Part No.	Price
TY-TB125 Multi-Link Towbar	13-04157	.
TY-TB75 Multi-Link Towbar	13-04158	.
TY-TB-FTD Flat Tire Dolly T/B	13-04159	.

PS

TOW BARS

ROBOTOW PORTABLE TOW BAR



Aircraft Spruce is pleased to offer the new all weather Millennium model Robotow. It is lightweight (under 30 lbs.) and portable, making it ideal for carrying onboard your aircraft. When the Robotow's heavy duty all weather knurled drive drum is held against the nose wheel, the aircraft is easily moved. A trigger on the handle controls the speed while a switch reverses direction on command. Powerful, portable, and dependable, Robotow is an ideal motorized towbar for the aircraft listed below. Order axle adapters separately.

Description	Parts #	Price
Robotow 6302 18V Towbar Cordless, with 5amp Robopak (moves plane 400ft. on a single charge)	13-03896	.
Robotow 6356 18V TOWBAR CORDLS	13-04222	.
Robotow corded 120V, with 80ft. extension cord.	13-03897	.
ACCESSORIES		
Robotow 5 Amp 18 Volt Robopak Battery	13-03898	.
Robotow 18 Volt Charger	13-03899	.
Robotow 18 foot Extension Cord.	13-03901	.
Robotow_GFI	13-03902	.
AIRPLANE ADAPTERS (SOLD SEPARATELY)		
Robotow Adapter Aero Commander	13-03904	.
Robotow Adapter Beech 1 / Baron / Bonanza / Debonair Duke	13-03905	.
Robotow Adapter Beech 2 / Queen Air / Twin Bonanza / Trigear 18	13-03906	.
Robotow Adapter Cessna 1 / 150, 172, 182, 310, 340	13-03907	.
Robotow Adapter Cessna 2 / 310R, 401, 414, 421	13-03908	.
Robotow Adapter Cessna 3 / 182RG (Pre-1962), 206, 210 (Pre-1962)	13-03909	.
Robotow Adapter Cessna 4 / 337, 303	13-03910	.
Robotow Adapter Cessna 5 / 182RG and 210 (1962-1986)	13-03911	.
Robotow Adapter Piper 1 / Apache, Comanche, Aztec, Navajo, Twin Comanche, Bellanca	13-03912	.
Robotow Adapter Piper 2 / Colt, Cherokee, Tri-pacer	13-03913	.
Robotow Adapter T28 Trainer	13-03914	.
Robotow Adapter Navion	13-03915	.
Robotow Adapter Commander 114B	13-03916	.
Robotow Adapter Cessna Caravan	13-03917	.
Robotow Adapter Trinidad	13-03918	.

CESSNA TOWBAR EXTENSION



The "QUICK-FOLD COMPACT TOWBAR" also known as the "QFC--Towbar-TM" This new to the market design was patented with you in mind...No more back breaking, bend over towing... Simply attach the QFC-TowbarTM extension to your already existent Cessna tow bar and stand up straight -away from under the propeller-for an added extension of 33". The QFC-TowbarTM has a unique compact design allowing for secure storage. It simply folds flat and is stowed securely along side the factory tow bar in the luggage compartment.

P/N 13-06722

DELUXE TAILWHEEL TOWBAR



The new Deluxe Tail wheel Towbar uses a positive locking control cable to attach to the wheel from a straight-on position. No extra maneuvering or lifting 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

ROLLING TOWBAR FOR TAIL DRAGGERS



Designed by an aircraft mechanic for easy ground handling of his Aeronca, this new tow bar is ideal for all types of tailwheel equipped aircraft. Just place the tail wheel in holding bracket, lift up, and tow bar wheels allow aircraft to be wheeled anywhere with ease. Bracket fits all standard aircraft tailwheels.

P/N 13-04277

GLIDER & BANNER TOW HOOKS

GLIDER & BANNER TOW HOOK RELEASE



Bolt-on tow hook with bumper is designed to be directly bolted to a custom mounting bracket. The bumper is designed to reduce the kick-back that occurs when releasing a banner. The polyethylene bumper absorbs the force of the release and your tow hook release will last longer. P/N 13-06281

GLIDER & BANNER TOW HOOKS RELEASE



Bolt-on tow hook is designed to be directly bolted to a custom mounting bracket. P/N 13-04975

GLIDER & BANNER TOW HOOKS RELEASE



Weld-on tow hook designed to be directly welded to a custom mounting bracket. This hook is similar in design to the Schweizer manufactured hook that is no longer available.

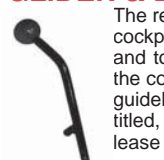
Design improvements were made to increase emergency release capability at all towing loads and angles. A common glider towing hazard occurs when the glider becomes extremely high or low compared to the tow plane. This applies a load to the tow hook at an angle that significantly increases the force required to release the tow rope. This new hook has greater release arm leverage and a unique hardened roller release design to reduce release force at all tow angles. Additionally, the geometry of the tow hook housing was improved to keep the tow ring in the optimum position to minimize release force. The tow hook is not to be used on gliders. FAA approval can be obtained for the complete tow hook and release system by following the guidelines in FAA Advisory Circular 43.13-2B, Chapter 8, titled, "Glider and Banner Tow-Hitch Installations" and the included tow hook installation instructions. Tow hook release in not STC or PMA approved. P/N 13-04974

GLIDER & BANNER TOW RING



The tow rings is designed for use with the glider and tow hook release. The size of the tow ring is 2 1/4" OD. The material is forged steel, finished with cadmium plate with a proof load to 2500 lbs. Tow ring is for use with Wings Unlimited, Inc. tow hooks only. It is not STC or PMA approved. P/N 13-06282

GLIDER & BANNER TOW RELEASE HANDLE



The release handle is attached to the support bracket in the cockpit of the airplane. A cable is attached to the handle and tow hook release. FAA approval can be obtained for the complete tow hook and release system by following the guidelines in FAA Advisory Circular 43.13-2B, Chapter 8, titled, "Glider and Banner Tow-Hitch Installations". The release handle is not STC or PMA approved. PN 13-06283

GLIDER & BANNER TOW SUPPORT BRACKET



The support bracket is attached to the floor of the airplane in the cockpit and is the housing that holds the release handle. FAA approval can be obtained for the complete tow hook and release system by following the guidelines in FAA Advisory Circular 43.13-2B, Chapter 8, titled, "Glider and Banner Tow-Hitch Installations". The support bracket is not STC or PMA approved. PN 13-06284

PS

REDLINE TOW BARS



Sidewinder attached securely to the front wheel.



Sidewinder extended.



Sidewinder collapsed.

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.

BEECHCRAFT BAR FITS: Bonanza, Baron, Travel Air, T-34

CESSNA SINGLE ENGINE BAR FITS: 172RG, 177RG, 182RG, 210, P210
15 inch Extension Tube is required on all models **except** 177RG

CESSNA TWIN ENGINE BAR FITS: C-310, C-320, C-340, C-414, C-421

PIPER BAR MODELS: Arrow, Lance, Saratoga (RG), Malibu, Matrix, Meridian, Seminole.

Lance, Saratoga (RG), Malibu, Matrix, Seminole models require use of the 15 inch Extension Tube. Meridian requires the 30" Extension Tube.

MOONEY BAR FITS: All Mooney Models

ECLIPSE BAR FITS: All Eclipse Models

15 inch Extension Tube is required.

Sidewinder Application	Part No.	Price
Beechcraft	13-06838	.
Cessna Single Engine	13-06855	.
Cessna Twin Engine	13-06857	.
Piper	13-06859	.
Mooney	13-06860	.
Eclipse	13-06861	.
Cirrus	13-06862	.
Rockwell 112/114	13-06863	.
15" Extension Tube	13-06856	.
30" Extension Tube	13-06858	.
Sidewinder Carry Bag	13-06839	.
Sidewinder Replacement Battery	13-06840	.

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	.
BE-3XL Cessna - Fits 172RG, 177RG, 182RG, 210, P210	13-06843	.
BE-3XL Mooney - Fits All	13-06846	.
BE-3 Piper - Fits Arrow, Lance, Saratoga (RG)	13-06844	.
BE-3XL Piper - Fits Arrow, Lance, Saratoga (RG), Malibu, Matrix	13-06845	.
S-3 Vehicle Adaptor	13-01918	.

REDLINE BE-4 TOWBARS

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

Application	Part No.	Price
BE-4 Beechcraft - Fits Bonanza, Baron, Travel Air, T-34, Duchess	13-06849	.
BE-4 Cessna - Fits 172RG, 177RG, 182RG, 210, P210	13-06850	.
BE-4 Piper - Arrow, Lance, Saratoga (RG), Malibu, Matrix, Meridian, Seminole	13-06851	.
BE-4 Eclipse - Fits All	13-06852	.
ST-1 Vehicle Adapter	13-04066	.

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
ST-1 Vehicle Adapter.....P/N 13-04066

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



REDLINE UL/UL-XT TOWBARS

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

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

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



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

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	Part No.	Price
Beechcraft - Bonanza, Baron, Travel Air, T-34	13-04064	.
Cessna - Fits 172RG, 177RG, 182RG, 210, P210	13-04068	.
Piper - Arrow, Lance, Saratoga (RG), Malibu, Matrix, Meridian, Seminole	13-04067	.



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



REDLINE SLIDER FOR ECLIPSE

The Slider adapter inserts into the front axle and tightens security. 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.

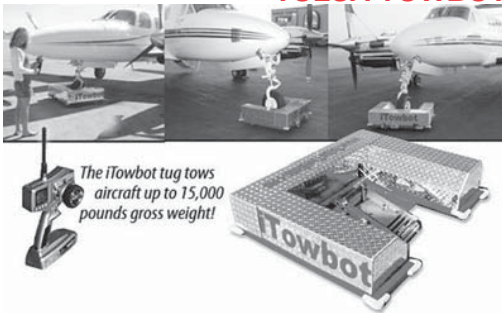
Made in the USA using 4130 Chromoly material. **FITS ALL ECLIPSE AIRCRAFT.**
P/N 13-06854



PS

TULSA TOWBOTS AIRCRAFT TUG

TULSA TOWBOTS REMOTE CONTROL AIRCRAFT TUG



The iTowBot's loading sequence is as easy as driving the unit directly under the nosewheel of your aircraft. The iTowBot 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. Now the operator can simply drive the unit back to its spot in the hangar....no tugging, pushing or rolling up extension cords required!

iTowBot can tow in any direction Tulsa TowBots offers a precision, ruggedly built towing machine that will allow the user to position aircraft in close quarters with ease. The iTowBot has the ability to rotate the aircraft inside of its own wingspan. With its hybrid zero-turn capability and fully-articulating self-locking carriage, turn limits of the aircraft nose wheel cannot be exceeded. 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.

The iTowBot was specifically designed to provide adequate distance for the operator to tow an aircraft while stepping back to visually clear the areas around the aircraft. The operator should exercise caution in selecting the vantage point from which to operate the iTowBot.

Damage caused by conventional tugs This is a picture of the nosewheel strut damage caused by exceeding the turn limits with a conventional tug. This cannot happen with the iTowBot, since the front wheel remains stationary while the iTowBot is free to turn through 360°. With its hybrid zero-turn capability and fully-articulating self-locking carriage, turn limits of the aircraft nose wheel cannot be exceeded.

The DX2.0 transmitter is designed to provide bulletproof 2.4 GHz spread spectrum radio link. With the DX2.0 DSM system there are no worries of frequency clip or radio interference from noisy motors or no reason to be concerned that someone may turn on a radio on your channel. The unit is user-friendly and offers many features and functions that the operator may desire. The receiver is bound to the transmitter at our facility prior to shipment so that the receiver will only recognize its specific transmitter that comes with your iTowBot. During the binding process, the motor fail safe positions are also set to further provide another level of safety.

Specifications

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

Descriptions	Part No.	Price
Standard Model (NO APU) Up to 15,000 LB	13-05252	.
Standard Model (WITH APU) Up to 15,000 LB	13-05253	.
Gear Reduction Options (NO APU) up to 30,000 Lbs.	13-05734	.
Gear Reduction Options (WITH APU) Up to 30,000 Lbs	13-05735	.

LITTLE STAR VTHRUST



Vthrust aircraft mover from Littlestar Products makes quick and easy work of moving your single-engine airplane, using an off-the-shelf 18V or 24V drill/screwdriver* as its power source. The drill's sealed mechanism means that there are no belts or chains to snag, and no adjustments to make. Most applicable drill/drivers have two or even three speed ranges for precise control of the Vthrust, and supply sufficient torque to move a 3000 lb. airplane up a 3% grade. The drill/driver chucks onto the vThrust, and attaches with a simple clamp. Just attach the driver and go! The drive system is versatile you've either already purchased the drill for other projects around the hangar and shop, or you've always wanted to! Operation is simple and safe. The internal worm-gear drive mechanism, coupled with the drill/driver's internal brake means the Vthrust stops and starts when you do smoothly and precisely. The variable speed of the drill/driver gives you complete control of the aircraft, from a standstill to moving at 40 feet-per-minute. Two versions are available -- in the deluxe steerable model, a simple twist of the stabilizing handle locks and unlocks the steering mechanism for total control. Robust construction gives the Vthrust the capability to deliver up to 325 lbs of drawbar force. Dual drive wheels deliver good traction and stability on almost all surfaces, and with the optional turf tires or tire chains, you're covered for the rest. Securing Vthrust to the aircraft is a snap, using a single lever to attach or detach the towbar. Several optional adapters are available, allowing the Vthrust to mate to many light aircraft, tricycle gear or conventional, with wheel pants or without. The steerable model is easily converted to the trailer mover with the optional coupler adapter. The Vthrust is also available in a robust non-steerable model. Lightweight and compact, the Vthrust aircraft mover's 62-lb. weight makes it easy to use and transport. All-stainless construction gives corrosion-free good looks, and the enclosed worm-gear drive mechanism is maintenance free. The Vthrust is easy to assemble and disassemble, making it a breeze to move and store. *Drill/Driver not included.

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	STANDARD	STEERABLE
MAXIMUM AIRCRAFT WEIGHT	3000 LBS	3000 LBS
MAXIMUM GRADE	10%	10%
MAXIMUM SPEED	40 FPM	40 FPM
WEIGHT WITHOUT DRIVER	65 LBS	65 LBS
HEIGHT	36"	36"
LENGTH	73"	73"
WIDTH	17-1/2"	17-1/2"
VTHRUST WARRANTY	1 YEAR PARTS & LABOR (DOES NOT INCLUDE DRIVER)	1 YEAR PARTS & LABOR (DOES NOT INCLUDE DRIVER)

Description	Part No.	Price
M-770-N - Standard Tugger, Non-Steerable	13-06097	.
M-778-S - Deluxe Tugger, Steerable	13-06098	.
Accessories	Part No.	Price
Hangar Ramps (Set of 3)	13-06091	.
Beechcraft Adapter	13-06092	.
Diamond DA-40 Adapter (Set of 2)	13-06093	.
Piper Adapter (Set of 2, for fixed gear with wheel pants)	13-06094	.
Diamond DA-42 Adapter (Set of 2)	13-06095	.
18V Dewalt 1/2" Drill Driver (2 18V Batteries included)	13-06096	.

PS

TIE-DOWNS

"THE CLAW" TIE-DOWN SYSTEM



Advanced Aircraft Anchoring System – The Claw® Aircraft Tiedown kit comes complete with three earth anchors, rope, spikes, hammer and canvas carry bag. The Harder You Pull, The More It Grips The Earth. Features: Easy installation...Easy removal. No more struggling with screw-in anchors The "Claw®" is designed exclusively for aircraft. The "Claw®" system has a 3600 lb. combined capacity. The last tie down you will ever have to buy - Lifetime Warranty, Tremendous holding strength. The harder you pull, the more The "Claw®" grips. Ideal for all aircraft, Works in hard clay, sandy soil or anything in between Large foot print spreads the load over a larger area for maximum holding power, Low profile will not puncture tires, Complete System weighs only 8 lbs (Including Hammer), Light-weight aircraft aluminum with hardened corrosion resistant die cast zinc plated steel spikes 25 ft 3/8" dia. solid braid polyester rope, Anchoring System hammer doubles as removal tool The "Claw®" includes: Bag that is easy to carry and store that contains: 3 Anchors; 9 spikes; 1 hammer; 25-ft rope Wt: 3.8 lbs. P/N 13-02448



JEB'S REMOTE TIE-DOWN KIT
Remote Release System - This new safety device will be appreciated by anyone who hand starts their plane. Release and retrieve without leaving the cockpit - get off to a safe start. P/N 13-04787.....

THE COMPLETE TIE DOWN KIT



Includes: (9) Anchor Rods; (3) Wheel Chocks; (3) Tie-Down Straps; (1) Storage Bag
This kit includes everything needed to tie your plane down when you must park on the grass. You can tie down both wings and the tail, and the kit includes a convenient storage bag. You can use the wheel chock as a chock when parked on pavement, and the strap can be used to secure the plane on a tarmac with built-in tie downs. When parking overnight on grass, simply drive the 3 anchor rods through the holes in the wheel chock to create a tie down and clip your tie down strap to the wheel chock & wing. P/N 13-03148.....



TIE DOWN STRAP

15 feet long, long enough for most high wing aircraft • 2'300 Lb ultimate strap strength • Snap buckle on each end • Safety yellow color Snap buckles cannot fall off of aircraft when loose or in gusty winds P/N13-03149



BAGGAGE TIE-DOWN

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



E-Z LOCK TIE DOWNS

EZ- Lock Tie Downs feature a braid slip lock which provides excellent tie-down security without the need to tie any knots. P/N 13-00159.....



NELSON AIRCRAFT TIE-DOWNS

- Three 15" welded (not bent) steel anchors with sharp tips for easy installation
- Three 15' nylon ropes- Cordura, Int'l. Orange, 8"x15" case
- Wt: 4 lbs. P/N 13-00663



SECURIT TIE-DOWN

Super-strong and simple to use, Securit has a unique braid lock that provides holding action automatically, even when the line is slack. It releases quickly and easily, but positively will not release by itself. Adjustable to 100". Tensile strength of the polypropylene rope exceeds 4000 lbs. Hooks are cadmium plated. Rope is resistant to water, oil and gas. Wt. 19 oz...P/N 13-22750

Less 10% for 3 or more. Price shown is for one unit.

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 harder 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



NYLON TIE-DOWN ROPE

American-made 100% duPont filament fiber nylon rope. Over twice the strength of manila. Highly resistant to sunlight, rot & mildew. Don't be fooled by foreign imitations. 3/8" Rope (4000 lb. test)P/N 13-05400 /Ft. 1/2" Rope (6250 lb. test)P/N 13-05500 /Ft. 15% Discount on 100 ft.

Tie-down bar is guaranteed for 10 years under normal use.

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

HOOK-N-PULL TIE DOWNS

Hook-N-Pull Tie downs feature closed end "s" hooks made from high quality steel with heavy plating, and tie down bars are made from high grade aluminum, hardened for strength and ball burnished and anodized. Furnished with 3/8" diameter nylon rope. High wingP/N 13-00448 Low wing or tail.....P/N 13-00449



AIRCRAFT TIE DOWNS

Three 17" x 3/8" plated steel cork screw stakes. Three 10' x 3/8" polypropylene ropes. Cloth draw string bag. P/N 13-06634



GENUINE VELCRO

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



TOUGHMAN TIE-DOWN

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

3/8" Camo 10'P/N 13-05115
1/2" Red & Yellow 15'P/N 13-05116
3/8" Red & Yellow 10'P/N 13-06142



SECURENET AIRCRAFT TIE DOWNS

Aircraft Type	Net Size	Anchors	Frame Ratchets	Tie Downs	Foam Pads	Part No.	Price
Low Wing Aircraft	3-5' x 12'	10	4	12	15	13-06781	.
High Wing Aircraft	2-5' x 18' 1-5' x 12'	10	4	12	15	13-06782	.
Amphibian Aircraft	3-5' x 18'	10	16	0	15	13-06783	.



STUBAI CARIBINERS

Incredible strength, 1400 lb capacity, quick release. Order teal or black. 3.25 in (8 cm) x 2.5 in (6 cm) x .375 in (1 cm) (approximate) Weighs 1.5 ounce (45 gm) TealP/N 10-03736 BlackP/N 10-03737

PS

TIE-DOWNS – CHOCKS



TIE-DOWN EYE BOLT

For non-structural applications. The 7/15" dia. threaded shaft is 7/8" long. Hole is 5/8" dia. Overall length 2-1/2". Furnished with AN365-720 elastic stop nut and wide-area AN970-7 washer
P/N 13-04303

AIRCRAFT TIE-DOWNS



These Aircraft Tie-Downs offer strong, durable, and easy to use tie downs for any weather condition. These tie downs are rated up to 3,000lbs. and tighten up with one quick pull. A sliding cap protects the buckle from freezing during cold weather and keeps grit out during windy field conditions. Each kit comes with: * Three 9 foot long tie down straps * Choice of tie down strap colors: black, red, or royal blue * A Dupont Cordura carrying bag with choice of colors; black, forest green, red, royal blue or navy.

Embroidery is available for an additional \$5. Choose from Silver, Royal, Navy, or Black.

Description	Part No.	Price	Description	Part No.	Price
Black-Black	13-06324	.	Red - Royal	13-06329	.
Black-Red	13-06325	.	Royal-Black	13-06330	.
Black-Royal	13-06326	.	Red-Royal	13-06331	.
Red-Black	13-06327	.	Royal-Royal	13-06332	.
Red-Red	13-06328	.			



THE PILOT BUDDY

The PILOT BUDDY is a pilot actuated safety and restraint system for hand propping and tail tie down. A 100 HP piston engine with climb propeller can produce about 500-700 pounds of thrust. The Pilot buddy is therefore constructed to meet and exceed that load for purpose of positive restraint. The Pilot Buddy 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 (Left side-4 Yards=12'); and the release lanyard (Right side -6 yards = 18') are constructed of MIL Specification, MIL-C-5040, 750 pound test line. The Swing Latch Shackle release is test certified to 800 pounds tensile strength for operating loads. The Swing Latch mating ring on the Restraint loop (Left Side), is a ring 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.
P/N 13-04259



AIRCRAFT TIE-DOWN STRAPS

Monogramming available (max 10 letters or numbers). Monogrammed items are noncancellable and nonreturnable.

For Monogramming use PN 13-06073. Specifications * Tensile Strength: 2970 (avg) * Weight(oz/yd): 1.12 * Width: 1" * Thickness: .070 (Avg) * Picks: 21

Blue	P/N 13-04341
Orange.....	P/N 13-04342
Black.....	P/N 13-04343
Red.....	P/N 13-04344



AEROSPOILER KIT, AERO-SPOILER EXTENSION KIT

A lift reduction device used for storm protection on aircraft parked outside during adverse weather conditions. The AeroSpoiler kit contains 10 cup/receiver assemblies and 8 30"x3" inch blade assemblies. Each kit contains 20' of wing coverage.

The AeroSpoiler will reduce the lift producing capability of your aircraft wing by as much as 96% on the area of wing covered by the Spoiler. Extension kits are available for aircraft requiring more than 20' of wing coverage.
P/N 13-06505.....

Extension Kit..... P/N -13-06506.....

ASA WHEEL CHOCKS



Mandatory equipment for all aircraft, 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.....

FOLD DOWN MINI CHOCKS



These mini chocks are so small and light you can take them with you. They work perfectly on both hard and dirt surfaces. Anodized aluminum, each wheel pair folds down to 3.75"x 2"x.5" & weighs just 4 oz. A 14' lanyard is attached.
P/N 5229



TRAVEL CHOCKS

Travel chocks are a very light weight wheel chock designed for airplanes and other vehicles. Compact and easily stored, Travel Chocks are popular with pilots across the country. Powder coated in durable red, blue, or yellow finish. Available in 3 sizes. 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.

Description	Part Number	Price
Small Bare Aluminum	13-01120-A	.
Small Blue	13-01120-B	.
Small Red	13-01120-R	.
Small Yellow	13-01120-Y	.
Medium Bare Aluminum	13-01130-A	.
Medium Blue	13-01130-B	.
Medium Red	13-01130-R	.
Medium Yellow	13-01130-Y	.
Large Bare Aluminum	13-01140-A	.
Large Red	13-01140-R	.
Large Yellow	13-01140-Y	.

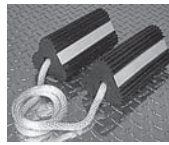


WOOD WHEEL CHOCKS

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

Std chocks..... P/N 13-01765.....

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



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 13-01767

AIRGIZMOS WHEEL CHOCKS



These chocks are unique because they are stackable. This feature really cuts down on the amount of space required to carry them in the plane.

The 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. They also won't damage anything else in your baggage compartment.
P/N 13-04298

HANDY CHOCKS



5904 "Handy Chocks" Light Weight - 8 oz* Powder Coated Aluminum Chock* 1 Pair per Package
Red..... P/N 13-06405.....
Yellow..... P/N 13-06406.....

QUICK CHOCK



Design - Unique but simple one-piece design consists of two chocking surfaces connected by a telescoping, tensioning member. Construction - Weather resistant PVC plastic exterior combined with heavy duty PVC (schedule 80) for interior support, along with military specification bungee assures years of service. The gripping surface is tire belt rubber to provide good friction and wear properties. P/N 13-06619..... ea.

WINDSOCKS

SCOTT'S WINDSOCKS



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

BRIGHT ORANGE			
Throat Dia.	Length	Part No.	Price
8"	30 inches	13-04147	.
10"	36 inches	13-02026	.
13"	55 inches	13-04145	.
18"	5 feet	13-20200	.
18"	8 feet	13-20202	.
24"	8 feet	13-20204	.
28"	7 feet	13-20205	.
36"	10 feet	13-20206	.
36"	12 feet	13-20208	.
INTENSE WHITE			
Throat Dia.	Length	Part No.	Price
18"	5 feet	13-20210	.
18"	8 feet	13-20212	.
24"	8 feet	13-20214	.
WHITE/ORANGE STRIPE			
Throat Dia.	Length	Part No.	Price
18"	5 feet	13-20220	.
18"	8 feet	13-20222	.
24"	8 feet	13-20224	.
28"	7 feet	13-20225	.
36"	10 feet	13-20226	.
36"	12 feet	13-20228	.

SCOTT'S STANDARD WINDSOCK FRAMES

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



8".....	P/N 13-20229
24".....	P/N 13-20232
10".....	P/N 13-20005
28".....	P/N 13-20234
13".....	P/N 13-20231
36".....	P/N 13-20235
18".....	P/N 13-20230

SCOTT'S EXTENDED WINDSOCK FRAMES

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

18".....	P/N 13-20244.....	36".....	P/N 13-20248.....
24".....	P/N 13-20245.....		

INTERNALLY LIGHTED EXTENDED FRAMES

An internally lighted windsock with extended frame makes the windsock "glow in the dark" for maximum visibility. The lamp operates on regular 120VAC current. The 18-inch diameter frame has a GE 8,000 hour lamp that lasts about 2 years. The 24-inch and 36-inch frames have reflector flood lamps. Designed to swivel without twisting the wires. The frame is constructed of all welded steel for strength and is painted to resist corrosion. The electrical connection for the lamps may be wired permanently or temporarily connected with an extension cord. 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.**



13".....	P/N 13-02029.....
18".....	P/N 13-20236.....
24".....	P/N 13-20238.....
36".....	P/N 13-20242.....

MINIATURE 15" WIND SOCK



instructions.

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 Complete Kit.....P/N 13-03747

Replacement Sock....P/N 13-03748

7" 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.....

Replacement Sock.....P/N 13-20025.....

8 FOOT VINYL WINDSOCK



18" diameter sock is double stitched, durable, fluorescent orange vinyl coated nylon. Ball bearings let sock turn easily even in light winds. Aluminum frame holds mouth open. Mount on appropriate pipe. Order frame and sock separately

8 Foot sock only....P/N 13-20035

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.

Part No.	Throat Diameter	Length	Price Each
13-20040	10"	36"	.
13-20045	18"	48"	.
13-20050	18"	60"	.
13-20055	18"	96"	.
13-20060	36"	144"	.

AVIATION WINDSOCKS



All Aviation Windsocks are made of heavy-weight cross-woven Aviation blend material having special Rip-Stop characteristics, flexible, chemically resistant treated, Polyurethane Coated for bonding strength and water repellancy, Ultra-violet dyed, with Nylon Web support and brass grommets.

Color: Colorfast International Orange. Estimated 50% longer life and color retention. Aviation sized windsocks. FAA approved sizes per FAA Advisory Circular #AC 150/5345-27C dated 07/85. Estimated wind speeds: Fully extended shape for all sizes listed below, (wind tunnel tested) to be special cut Specification of 15 knots = 16.5 mph. 18" - 28" diameter windsocks 96" in length. 36" diameter 144" in length.

18" dia. ... P/N 13-02038..... 20" dia.P/N 13-02039

24" dia. ..P/N 13-02040..... 28" dia.P/N 13-02041

36" dia.P/N 13-02042.....

EXTRA LONG LIFE WINDSOCKS



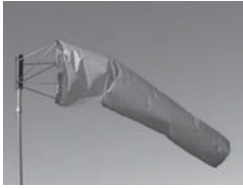
"Extra Long Life" is a heavy-duty cross-woven Aviation blend Poly./Nylon material with special Rip-Stop characteristics, Medium-weight for more flexibility, chemically resistant treated, and Polyurethane coated for bonding strength and water repellancy. Ultra-violet dyed for best retention. Nylon support 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.

Size	Part No.	Price	Size	Part No.	Price
6"X18	13-20110	.	15"X55"	13-04317	.
9X30	13-20111	.	20"X96"	13-02039	.
10X36	13-20112	.	18"X96"	13-02038	.
13X48	13-20113	.	24"X96"	13-02040	.
18X60	13-20114	.	28"X96"	13-02041	.
20X60	13-20115	.	36"X144"	13-02042	.
12"X48"	13-04316	.			

PS

WINDSOCKS

AIRPORT WINDSOCKS



What makes these aviation windsocks different?

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

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

ORANGE WINDSOCKS

Description	Size	Part No.	Price
Orange Windsock	4" x 15"	13-06386	.
Orange Windsock	6" x 24"	13-06387	.
Orange Windsock	8" x 36"	13-06388	.
Orange Windsock	10" x 36"	13-06389	.
Orange Windsock	13" x 54"	13-06465	.
Orange Windsock	18" x 60"	13-06466	.
Orange Windsock	18" x 72"	13-06467	.
Orange Windsock	18" x 96"	13-06468	.
Orange Windsock	20" x 96"	13-06469	.
Orange Windsock	24" x 96"	13-06470	.
Orange Windsock	36" x 144"	13-06471	.

ORANGE AND WHITE WINDSOCKS

Description	Size	Part Number	Price
Orange & White Windsock	4" x 15"	13-06472	.
Orange & White Windsock	8" x 36"	13-06473	.
Orange & White Windsock	10" x 36"	13-06474	.
Orange & White Windsock	13" x 54"	13-06475	.
Orange & White Windsock	18" x 60"	13-06476	.
Orange & White Windsock	18" x 72"	13-06477	.
Orange & White Windsock	18" x 96"	13-06478	.
Orange & White Windsock	24" x 96"	13-06479	.
Orange & White Windsock	36" x 144"	13-06480	.

BALL BEARING FRAMES



The ball bearing windsock frames are a rugged design constructed of a welded steel construction and then a powder coated finish for corrosion protection. They incorporate a two bearing pivoting design for effortless pivoting. These frames are ready to be mounted on a 3/4" female pipe thread for the 8", 13", 18" and 24" and a 1" pipe thread for the 36".

Description	Size	Part No.	Price
Ball Bearing Frames	8"	13-06481	.
Ball Bearing Frames	13"	13-06482	.
Ball Bearing Frames	18"	13-06483	.
Ball Bearing Frames	24"	13-06484	.
Ball Bearing Frames	36" Non Collapsible	13-06485	.
Ball Bearing Frames	36" Collapsible	13-06486	.

EXTENDED BALL BEARING FRAMES



These windsock ball bearing extended frames are a rugged design constructed of a welded steel construction and then a powder coated finish for corrosion protection. They incorporate the same high quality construction as our standard ball bearing frames with the added performance of an extended frame. They incorporate a two bearing pivoting design for effortless pivoting.

These frames are ready to be mounted on a 3/4" female pipe thread for the 13" and 18" frames. Use 1" female pipe thread for mounting the 24" and 36" frames.

Description	Size	Part No.	Price
Extended Ball Bearing Frames	13"	13-06487	.
Extended Ball Bearing Frames	18"	13-06488	.
Extended Ball Bearing Frames	24"	13-06489	.
Extended Ball Bearing Frames	36"	13-06490	.

VERTICAL SOCK KITS



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

Description	Size	Part No.	Price
Vertical Mount Windsock Kit	8" x 36"	13-06491	.
Vertical Mount Windsock Kit	13" x 54"	13-06494	.
Vertical Mount Windsock Kit	18" x 60"	13-06495	.
Vertical Mount Windsock Kit	18" x 96"	13-06496	.

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.

Description	Size	Part No.	Price
Tripod Mount Windsock Kit	8" x 36"	13-06497	.
Tripod Mount Windsock Kit	13" x 54"	13-06498	.
Tripod Mount Windsock Kit	18" x 60"	13-06499	.
Tripod Mount Windsock Kit	18" x 96"	13-06501	.

PORTABLE WINDSOCK KIT



Our portable windsock kit is a popular choice for remote locations where knowing the wind speed and direction is vital. This rugged, stand alone unit comes complete with the pole, frame, windsock and windsock ties. These units are manufactured right here in our facility reassuring only the best in quality and performance. This free standing system measures over 7' tall in its assembled configuration.

* It features an extremely rugged design that incorporates a pole with a foot lug and handle for easy installation and removal. The two part pole disassembles for easy transportation.

* The frame conveniently screws onto the top of the pole. Its aluminum hoop and bail pivot on a stainless steel shaft for years of reliable and responsive action.

* The portable unit incorporates the same high quality windsocks we manufacture for commercial airfield use. These high quality socks are constructed from U.S. made nylon fabric that is urethane coated and UV protected. This material is made to our very strict and exacting standards and then sewn right here in our facility, producing a windsock of uncompromising quality. They are offered in (3) sizes for the portable unit. UPS only on this product due to size of package.

Description	Size	Part No.	Price
Portable Windsock Kit	6" x 24"	13-06502	.
Portable Windsock Kit	8" x 36"	13-06503	.
Portable Windsock Kit	13" x 54"	13-06504	.

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.

18" dia.....P/N 13-02043.....
 20" dia.....P/N 13-05729.....
 24" dia.....P/N 13-05730.....
 36" dia.....P/N 13-05731.....

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.

6" dia.....P/N 13-20120.....
 9" dia.....P/N 13-20121.....
 10" dia.....P/N 13-20122.....

MONTAGUE FOLDING BICYCLES

MONTAGUE CX COMFORT BIKE



The Montague CX features 26" standard wheels, 21-speed Shimano gearing and a brushed blue aluminum / chromoly frame. Folds to 36"x 28"x 12" in under 30 seconds without use of tools, and fits easily into light aircraft, car trunk, or boats. Extra cushioned saddle and wide tires offer a smooth ride on paved road and a good grip on light off-road terrain. Excellent for cruising city streets or boardwalks.

16" Frame P/N 13-02468
 18" Frame P/N 13-00386
 20" Frame P/N 13-01050

MONTAGUE - DX GRAND CANYON BIKE



The DX Grand Canyon® Crossover Bike is a great all-around bike for anyone looking for a comfortable ride at an unbeatable price. Perfect for cruising through the city or countryside, this 18-speed bike comes equipped with Shimano gears, Gripshift shifters, slightly raised handle bars, and a super soft gel saddle for your ultimate

comfort. At the end of your ride, just fold up the lightweight DX and stow it in your car trunk, city apartment or anywhere in-between. Think of it as an all-around bike for the all-around rider. The DX Crossover Bike uses all standard Mountain Bike wheels and components serviceable at any bike shop.

16" DX Crossover Bike P/N 13-01945
 18" DX Crossover Bike P/N 13-03272
 20" Crossover Bike P/N 13-02458

MONTAGUE PARATROOPER™



A 24-speed mountain bike which folds simply, without the use of tools. By turning one quick release lever, Paratrooper™ compacts in less than 30 seconds into a 3'x3' pack for easy portability & storage.

18" P/N 13-01068
 20" P/N 13-01069

VATAVIO FOLDING BIKE



Vatavio Up to 18 Miles per Charge and 20 MPH the Vatavio is the BEST FOLDING BIKE in its class! The EcoBike Vatavio Folding Electric Bike is the most advanced folding electric bike on the market. Its lightweight aluminum frame design (48lbs) and folding capability makes it a very versatile to store when space is an issue, car trunk(no rack req.), train commuting, RV or Camper, Boat, or even the closet! The Vatavio is the ONLY folding electric bike with standard 8ah Lithium Ion Manganese battery, SHIMANO 6-speed w/Revoshift, 290 watt motor with Zero Start Feature and adjustable speed controller. Additionally, it sports K-Sheild puncture resistant 20" tires, giving it maximum power and torque to get you up almost any hill with ease! Features: • Frame Style: Folding (35"x17"x29" folded) • Frame Size: Fits 4'11"-6'4" • Color: Raw Aluminum • Frame: 6061 Hi-Strength Aluminum • Rim: 20" Double Wall Aluminum • Tire: Kenda K-Sheild 1.75" Thorn-Resistant Tubes/Puncture-Resist Liners • Charger: AC 110V P/N 13-05709.....

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

MONTAGUE MX MOUNTAIN BIKE



The Montague MX is a full size, high performance mountain bike with 26" standard wheels. Excellent for off-road use, it features a brushed aluminum color or an aluminum/ chromoly frame, and 24 speed Shimano gearing. Folds to 36"x 28"x 12" in less than 30 seconds without tools and stores easily

in light aircraft, car trunk, or boat.
 18" Frame P/N 13-00384
 20" Frame P/N 13-02936

MONTAGUE ACCESSORIES - Carrying Case P/N 13-08406

SWISS LX 24 SPEED MOUNTAIN BIKE



The SwissBike® LX Mountain Bike is tough, rugged, and ready for anything. Experienced riders will enjoy this mountain bike whether dealing with mountain terrain or city pot holes, the SwissBike® LX is prepared for action. The speed of unfolding this bike for riding will blow

you away. No tools required to fold and stash away. The SwissBike® LX comes equipped with front suspension, 24-speed EZ Fire Plus® shifters, and a front disc brake to tackle the roughest terrain. The SwissBike® LX Mountain Bike uses all standard mountain bike wheels and components serviceable at any bike shop.

18" LX 24 P/N 13-04702
 20" LX 24 P/N 13-04703

SWISS XO 27 SPEED MOUNTAIN BIKE



The SwissBike® XO Mountain Bike is an aggressive hard tail that can be ridden anywhere. This bike is designed for urban assaults of big hit riding and is ideal for anyone who likes to take their bike with them where ever they go. This 27 speed bike comes equipped with a hand welded custom drawn

aluminium frame, Sram® X-0 Trigger Shifters, hydraulic front disc brake and Rockshox® Recon front fork. Mountains, desert, single track, city streets - bring it on! The SwissBike XO Bike uses all standard Mountain Bike wheels and components serviceable at any bike shop.

18" XO 27 P/N 13-04704
 20" XO 27 P/N 13-04705

SWISS TX 21 SPEED MOUNTAIN BIKE



The SwissBike® TX Mountain Bike is a great all-around bike for anyone looking for a great ride at an unbeatable price. Perfect for cruising through the city or countryside, this 21-speed bike comes equipped with Shimano gears, Gripshift shifters for your ultimate ride. At the end of your ride, just fold

up the lightweight SwissBike TX and stow it in your car trunk, city apartment or anywhere in-between. Think of it as an all-around bike for the all-around rider. The SwissBike TX Bike uses all standard Mountain Bike wheels and components serviceable at any bike shop.

18" TX 21 P/N 13-04699
 20" TX 21 P/N 13-04701

PS

DAHON FOLDING BICYCLES

20" DAHON SPEED FOLDING BICYCLE



The Speed folding bicycle from Dahon features the latest in frame design with gearing provided by a 8-speed Shimano SIS derailleurs. Frame is custom drawn 4130 lite-chromoly steel and the wheels are 20"x1-3/8" with stainless steel spokes and lite-alloy rims. The folded size of the bike is 10"x 22"x 32", Wt: 26.5 lbs., and folding time is only 10 seconds. Color: Blue P/N 13-00043

26" DAHON MATRIX FOLDING BIKE



Featured in AOPA Pilot and Flying magazines, the new Matrix 26" folding bicycle features 24-speed central gears with grip shift, all aluminum lightweight frame with suspension fork, Pro-Max brakes, alloy rims, and an all aluminum finish. Folded size: 13" x 28" x 38". Wt.: 28.5 lbs. A very lightweight high performance bike for the serious rider in a folded size that stows easily in an aircraft baggage compartment or a car trunk. Color: Black P/N 13-00040

compartment or a car trunk. Color: Black P/N 13-00040

OTHER DAHON FOLDING BIKES



MARINER



SPEED



JETSTREAM

Model	Color	Wheels	Speed	Fold Size	Wt	P/N	Price
Boardwlk-1	Burgundy	20"	1	10"x20"x32"	32	13-00042	.
Mariner	Ocean Blue	20"	6	12"x22"x32"	30	13-00037	.
Helios P8	Aluminum	20"	8	11"x23"x33"	-	13-00789	.
Mariner	Ocean Blue	20"	6	11"x23"x33"	-	13-00037	.
Speed P8	Steel Blue	20"	8	14"x23"x33"	-	13-00043	.
Espresso	Dk. Cherry	26"	21	14"x27"x36"	-	13-00791	.
Curve D3	Fire Red	16"	3	-	-	13-05780	.
Speed 8	Fire Red	20"	8	-	-	13-00043	.
Ciao! P8	Charcoal	20"	8	-	-	13-05781	.
Glide P8	Carmel	24"	8	-	-	13-05782	.

DAHON ACCESSORIES

Description	P/N	Price	Description	P/N	Price
Kickstand	13-08310	.	Rear Rack	13-08340	.
			Carry Bag 20"	13-08360	.

DAHON SPEED D7 FOLDING BICYCLE



Riding a bike has never been this fun. The Speed combines sporty performance with unbelievable value. The frame is hand-welded from custom-drawn 4130 chromoly Sonus tubing and incorporates six different patented technologies, resulting in what is probably Dahon's stiffest frame. It features the Dahon Neos rear derailleurs, a revolutionary new design that has an ultra short cage for improved ground clearance and super fast shifting. Dahon paired the Neos with an 11-30T cassette, which, when compared with the previous 14-28T freewheel, represents a 37% increase in gear range. Sleek, simple and excellent value - just what most people want in a folding bike. Moroccan Blue 27.1lbs..... P/N 13-04094.....

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DAHON CADENZA FOLDING BICYCLE



The Cadenza is a full-size 16 SPEED road bike which is ideal for long range riding on asphalt. With its skinny tires and lightweight aluminum frame and components, the Cadenza is a fast road bike which affords the rider an upright posture. Features include carbon-wrapped aluminum handle bar and ergonomic bar ends, quick release folding stem, and alloy rims with stainless spokes. P/N 13-04062

RIVIERA FOLDING ELECTRIC BICYCLE



Riviera folding electric bicycle is a one of kind folding electric bicycle that anyone can have fun with. You can ride this electric bike three different ways: 1. Like a regular bike in the "OFF" mode. 2. Pedal normally in the "ON" position and the pedal assist kicks in and helps you out! 3. Use the thumb throttle and NO pedaling is required! The Riviera is popular with RVers as well as private pilots. With gas prices high and with more people concerned about the environment, the electric bike is a wonderful option. P/N 13-04070.....

FUN CRUZ'N PORTABLE SCOOTER



Built with highest quality parts • Subaru Robin 4-stroke engine • Quiet, smooth, and "Subaru" long life • Meets California & Federal emissions • No mixing fuel/enclosed tank for 85 mi. • Foldable handlebars & adjustable seat • Compact and light for stowing • Rear "cruising" suspension • Front & back disk brakes • Quiet long-life belt drive • Many "cruising accessories". P/N 13-03273.....

TRAVEL SCOOT



Incredibly small folding size 33" x 12" x 10". Fits where no mobility scooter has fit before. Made of aircraft-grade aluminum. Weighs only 47 lbs. including the 24V 12Ah battery, basket, and carrying bag. Set up time less than one minute. Heaviest part is only 20 lbs. Supports 260 lbs plus some luggage. Speed 7 mph & 8 miles percharge. Battery approved for airline transport. P/N 13-03635

Battery approved for airline transport. P/N 13-03635

PATMONT GSR CRUISER



After 22 years of building high quality motorized scooters for a wide variety of customers, PMW has now developed what it believes is the perfect machine for a very large segment of motorized scooter enthusiasts. * Suggested Usage: City / Cruising * Engine: 29cc two-stroke 40:1 oil ratio * Max Speed: 24mph * Transmission: chain drive w/ centrifugal clutch * Weight: (lb) 32lbs * Est. Fuel Econ. (* California Air Resource Board Legal * Dimensions: L-34" W-13" H-42 (Folded L-34" W-13" H-14") * Additional Features Frame: 4130 chromoly - lifetime warranty on the frame * Forks: 4130 chromoly - lifetime warranty on the fork * Handlebars: 6061 T6 aircraft grade aluminum with slightly wider than standard cross bar for better handling * Suspension: No suspension but the frame is designed to flex to absorb shock * Flexdynamic " * Carburetor : Non adjustable/maintenance free * Capacity: 400lbs P/N 13-06077.....

Dimensions: L-34" W-13" H-42 (Folded L-34" W-13" H-14") * Additional Features Frame: 4130 chromoly - lifetime warranty on the frame * Forks: 4130 chromoly - lifetime warranty on the fork * Handlebars: 6061 T6 aircraft grade aluminum with slightly wider than standard cross bar for better handling * Suspension: No suspension but the frame is designed to flex to absorb shock * Flexdynamic " * Carburetor : Non adjustable/maintenance free * Capacity: 400lbs P/N 13-06077.....

PS

PARACHUTES

SOFTIE EMERGENCY PARACHUTES

MINI-SOFTIE

An extremely comfortable State-of-the-art lightweight emergency parachute system designed to fit into the restricted cockpits of today's aircraft. The steerable conical canopy is designed for a 240# maximum suspended weight. System size and weight 2"x15" w. x 24" long. 14 lbs.

P/N 13-03505-X.....

MICRO-SOFTIE

A narrower version of the Mini-Softie with a 13" wide harness designed to stay secure over the shoulders of slightly built people. The steerable conical canopy is designed for 180# maximum suspended weight. System size and weight 2"x13" w. x 23" long. 13 lbs.

P/N 13-03510-X.....

LONG-SOFTIE

Specifically designed for today's high-tech soaring machines and aerobatic aircraft which have little if any cockpit room. The Long-Softie comes complete with a steerable conical canopy designed for 240# maximum suspended weight. System size and weight 2"x15" w. x 35" long. 15 lbs.

P/N 13-03515-X.....

SOFTIE-SEAT PACK

Container and harness only. Order a parachute separately or specify type of parachute you have to make sure container is suitable size.

P/N 13-03520-X.....

WEDGE-SOFTIE

A wedged shaped version of the popular MINI-SOFTIE and MICRO-SOFTIES. The WEDGE-SOFTIE is designed specifically to add lumbar and sacral support during high positive "G" maneuvers. Ideal for the upright scattling found in Pitts style seating. Specifications: 3" thick at bottom, 1/2" thick at top x 14" wide x 24" long. Canopy Type: Slecrcable Conical*. Total weight: 14 lbs.

P/N 13-03524.....

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



PREMIUM TRIM PARACHUTE

360/425/490" Premium Trim Emergency Back Parachutes. Includes: Snaps on legs, Snaps on thread thru adapter on the chest, free carrying bag. **Features:** * Color Choices: Black or Red or Navy Blue (Black Trim & Harness). * Hardware: B-12 Snaps on Leg Straps, Thread-thru on Chest. * Logic: Mass produce in "standard configuration" with limited colors. * Free Carry Bag Included * Same quality parachute system that performs equally as the pre-existing "Signature Series" without frills or options.

Description	Part No.	Price
Premium National Flat Red	13-06263	.
Premium National Flat Black	13-06264	.
Premium National Flat Navy	13-06265	.



PARA-CUSHION EMERGENCY PARACHUTES

Each Para-Cushion system features the patented Pop-Top type container with the externally mounted pilot chute which provides a flat profile while worn and gives a quick and positive send off when released. The canopy risers are neatly hidden in built-in channels contoured into the container. Each container is padded with a luxurious 1/2" (1cm) layer of Confor™ foam, covered with rich silver grey velour fabric. The harness utilizes a light weight fixed-dimension main lift web with individual leg strap design for ease of walking and maximum cockpit movement while saving weight and space. Fully adjustable. Deployment is ripcord actuated with the handle located at the front left side of the harness. Each system is assembled with the popular 26 ft diameter MID-LITE canopy freshly packed by an FAA licensed parachute rigger. Every system is delivered in a matching carrying bag with the complete service manual, ready for flight.

PARA-CUSHION BACK™ - The Model 303 parachute assembly is the most popular model and used by warbird, sailplane & aerobatic pilots. The back-mounted container conforms to the curve of your shoulders, and is only 24" (60 cm) tall by 16" (40 cm) wide and less than 3" (7 cm) thick. The Model 303 weighs approximately 15 lbs. (6.5 kg.). It is recommended when head space is at a minimum, such as Christen Eagle & Grob.

P/N 13-03440.....

NATIONAL EMERGENCY PARACHUTES

National parachutes are built with the finest U.S. materials in accordance with TSO C23b in the Standard Category. Constructed with 1.1 oz. ripstop nylon. High stressed areas are reinforced with Kevlar. The pack design allows greater movement in and around the aircraft. Highly recommended by Aerobatic Champions Leo Loudenslager and Patty Wagstaff.

NATIONAL'S BACKPACK - developed with the pilot in mind and the most popular model. The teardrop shape provides flexibility and maximum comfort even in the tightest cockpits. Standard design includes a tapered width and teardrop shape that hugs the back and also provides comfortable lower lumbar support

Size	L	W Top	W Bottom	Thickness Upper Back	Thickness Lower Lumbar	Part No.	Price
360"	22"	13"	15"	1-3/4"	1-3/4"	13-03300	.
425"	22"	13"	15"	1-3/4"	2"	13-03200	.
490"	22"	13"	15"	1-3/4"	2-1/4"	13-03400	.

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

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

*490 = Recommended Pilot Weight is up to 241 lbs.

NATIONAL'S SEAT PACK - Especially desirable when the cockpit has more vertical space than horizontal. For added comfort, the seat pad has 1 inch of "Astronaut Foam" above the parachute (accessible to remove or add foam/padding as required). Comes with TT adapters or two B12 snaps. Quick ejector snaps available (special order).

Size	L	W Top	W Btm.	Thickness Upper Back	Thickness Lower Lumbar	Part No.	Price
360"	22"	13"	15"	1/4"	2-3/4"	13-03411	.
425"	22"	13"	15"	1/4"	3-1/4"	13-03412	.
490"	22"	13"	15"	1/4"	3-1/4"	13-03413	.

NATIONAL'S CHAIR - Designed for pilots whose aircraft has little cockpit space and to accommodate pilots who prefer a wrap around pack. The parachute is packed through the entire container length to maintain full flexibility and the slimmest profile throughout the container.

Size	L	W Top	W Bottom	Thickness Upper Back	Thickness Lower Lumbar	Part No.	Price
360"	40"	13"	15"	1-3/4"	2"	13-03421	.
425"	40"	13"	15"	1-3/4"	2-1/4"	13-03422	.
490"	40"	13"	15"	1-3/4"	2-1/2"	13-03423	.

NATIONAL FLAT PARACHUTE

The flat pack is slightly wider and more rectangular but much flatter than our original back parachute's "teardrop" shape. The National FLAT is thinner and even more supple than before. The "Flat-Pack" parachute container provides two choices in packing configuration: 1. More canopy in the upper container for the absolute thinnest beltline thickness (Taper Pack). 2. Canopy spread evenly to be one thickness (thinness!) top to bottom (Fully Flat Pack).

Description	Part No.	Price
National Flat	13-06270	.
National Flat Bag	13-06266	.
National B-12 Snaps	13-01959	.
National Quick Eject Snaps	13-06268	.

PARA-CUSHION CHAIR™ - The Model 305 is truly a chair-parachute, covering the back of the body from shoulders to just above the knees. The patented chair-type container conforms to the curve of your back. It is especially popular among sailplane pilots flying for hours in the supine position, it is literally a "parachute-cushion" beneath the pilot. It is 42" (105 cm) long by 16" (40 cm) wide and varies from 2.5" to less than 1" (6.5 to 2.5 cm) thick, designed specifically for use where space is minimal. The complete system weighs approximately 16.5 lbs. (7.5 kg.).

P/N 13-03442.....

PARA-CUSHION SEAT™ - The Model 304 parachute assembly is designed specifically for emergency use by sport aviators flying aircraft utilizing a seat pan. The parachute container is a seat cushion 12"x16" (30cmx40 cm) and less than 3" (7 cm) thick. Because the backpack is only a half inch (1 cm) thick, the system is also especially suited to aircraft with restricted stick or rudder travel, or when head room is not restricted, such as Stearman, Great Lakes and Citabria. The complete system weighs approximately 15 lbs. (6.5 kg.) A zip-on 3" (7 cm) Confor-foam™ padded Travel Cushion is an optional accessory

P/N13-03441.....

OXYGEN POCKET - Zipper pocket that your oxygen tank can fit in. Available for the 303 & 305.

P/N 13-04921.....

OPTIONS		
Aerobatic Harness Option	N/C	Quick ejector snaps
Capewell riser releases	.	Quick ejector snaps
Oxygen pocket	.	(Aerobatic)
Sheepskin backpack	.	Monogram personalization

SURECHECK CHECKLISTS – MUTT MUFFS



SURECHECK CHECKLISTS

These versatile checklists cover all aspects of preflight, standard operation procedures, emergency procedures, V-speeds, ATC light signals, and include a TCA and sectional scale. Easy to read large, black on white type.

Model	Part #	Price
PIPER		
Tomahawk	13-09708	.
Cher 140	13-09709	.
Cadet	13-09710	.
Warrior II	13-09711	.
Archer II	13-09712	.
Arrow II	13-09713	.
Arrow III	13-09714	.
Arrow IV	13-09715	.
Cher "six" 260	13-09716	.
Cher "six" 300	13-09717	.
Saratoga	13-09718	.
Lance	13-09719	.
Seminole	13-09720	.
Seneca I	13-09721	.
Seneca II	13-09722	.
Seneca III	13-09723	.
Seneca IV	13-09724	.
Aztec E	13-09725	.
Aztec F	13-09726	.
CESSNA		
C-150	13-09727	.
C-152	13-09728	.
C-172	13-09729	.
C-172XP II	13-09730	.

Model	Part #	Price
CESSNA		
C-177	13-09731	.
C-182	13-09732	.
C-206	13-09733	.
C-210	13-09734	.
C-172RG	13-09735	.
C-182RG	13-09736	.
C-177RG	13-09737	.
BEECH		
Debonair A33	13-09738	.
Debonair B33	13-09739	.
Debonair C33	13-09740	.
Bonanza F33A	13-09741	.
Bonanza V35	13-09742	.
Bonanza A36	13-09743	.
Duchess 76	13-09744	.
Baron 55	13-09745	.
Baron 58	13-09746	.
OTHER		
Katana DA 20	13-09747	.
Commander 114	13-09748	.
Mooney M20C	13-09749	.
Mooney 201	13-09750	.
AA-5B Tiger	13-09751	.
Tabago	13-09752	.

SURECHECK ACCESSORIES

ATISPAD - Sticky posting pads for obtaining ATIS, ASOS, AWOS. Shrink wrapped in pads of (50) 3-3/4" x 4" P/N 13-09753

CLEARANCE PAD - Posting pads for obtaining IFR Clearances by pilots. Provides in-flight writing for Altitude, Heading, Frequency. Shrink wrapped in pads of 50 "CRAFT" style 5-1/2" x 6-1/4" P/N 13-09754

FSSPAD - Bonded legal pad for obtaining weather briefings from FSS Shrink wrapped in pads of 50 sheet 5-1/2" x 6-1/4. P/N 13-09755

APPROACHPAD - Spiral Bound IFR approach chart holder. Holds up to 10 approach charts in transparent plastic. Easy Access with visible chart name in right corner. Fits on yoke clips or kneeboards for easy in-flight use. P/N 13-09756

V BOOK - Small notebook with V-Speeds and approach Speeds. Perfect for Flight Schools, and Renters. P/N 13-09757

PREFLITEPAD - All the information you need for weight and balance and V-speeds. Calculate center of gravity and keep other vital information at your fingertips. You'll wonder how you got through preflight without it! 4.25" x 7". Pad of 40 P/N 13-09854

CHECKRIDE CHECKLISTS - Unique to the SureCheck brand. Incorporates FAA PTS standards for new ratings. Also serves as a handy reference during all phases of training. Packed with a wealth of information not found anywhere else in such a complete configuration. Perfect for students and seasoned pilots to renew rating certs. Include the updates from the FAA (effective August 2002). New redesigned format with increased size to make them even easier to read.

Private pilot..... P/N 13-00051

Instrument..... P/N 13-00052

Commercial..... P/N 13-00053



MUTT MUFFS

- Over-the-Head Hearing Protector for Animals.
- Specially Designed Wide Foam Filled Ear Seals for Maximum Comfort.
- Engineered specifically to properly meet the contour of a dog's head
- Comfortable and Lightweight
- Adjustable Straps for Optimum Fit.
- Inner sound-deadening foam is the same density found in pilot's high-end headsets
- Made entirely in the United States of America
- Patent Pending

SIZE CHART - The overall circumference measurement of your dog's noggin at the largest point is the best determination of size, because if you choose a size too large, the muffs won't seal well against his head, and you lose all the sound-reducing properties you were shooting for. Your dog's weight is also a good indicator of which size to choose.

Muff Size	Typical Dog Weight	Head Circumference	Maximum Inner Shell Width	Maximum Inner Shell Height
X-Small	5-10 lbs	7-9"	1.5"	1.625"
Small	9-25 lbs	9-13"	1.75"	1.75"
Medium	20-50 lbs	13-18"	2.5"	2.5"
Large	50-95 lbs	18-23"	3.25"	3.25"
X-Large	95+ lbs	23+	4"	4"

Size	Weight	Part No.	Price
X-Small	1.5 oz	13-05536	.
Small	1.7 oz	13-05537	.
Med	3.0 oz	13-05538	.

Size	Weight	Part No.	Price
Large	4.0 oz	13-05539	.
XL	5.8 oz.	13-05540	.

CUSTOM COLORS - David Clark® has their signature "Green" and there's the ever-classic "Mutt Muff® Gray". But now, Mutt Muffs® are available in three additional colors! **Red! Blue! and Pink!**
P/N 13-05541

CO-PILOT - TRIANGLE BANDANA FOR DOGS



The proper uniform for the distinguished canine aviator. Sewn on all three sides. Finished Sizes: Large:21.5" x 21.5" x 29", Small: 14" x 14" x 20"
Large..... P/N 13-05547

Small..... P/N 13-05548

HYDRO-BOWL FOR DOGS



Next time your pooch is pantin' for a drink, pull out the convenient, collapsible Hydro Bowl. Waterproof and made of a high-tech, durable plastic canvas, the Hydro Bowl folds up and snaps closed into a compact triangle for storage. Attach it to a leash, backpack, bicycle, or a variety of other places for easy storage. Hold 5 cups
P/N 13-05546

DOG IS MY CO-PILOT - BUMPERSTICKER



"Dog Is My Co-Pilot" is the trademarked motto of Bark magazine - accept no substitute. As seen on dog-friendly cars from coast to coast!.... P/N 13-05545

E.S.P. CHECKMATE™



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

CHECKMATE CHECKLISTS



CHECKMATE CHECKLISTS

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

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

Available for over 300 single and twin engine aircraft. All follow a standard format. Used by some of the best flight schools in the country. Checkmate checklists come in standard 6.5"x9" size.

Description	Part No.
Alarus/Zenith CH2000	13-04627
Aviat Husky A1-B	13-05490
Aviat Husky A1-B Amphibian	13-05491
Beechcraft Baron B55 64'-76"	13-04649
Beechcraft Baron B55 77'-82"	13-04650
Beechcraft Baron 58 285 HP	13-04651
Beechcraft Baron 58 300 HP	13-04652
Beechcraft Baron 58P 310 HP	13-04653
Beechcraft Baron 58P 325 HP	13-04654
Beechcraft G58 G100	13-04655
Beechcraft Bonanza A36 '84 & On	13-08699
Beechcraft Bonanza F33A	13-04601
Beechcraft Bonanza G36 G1000	13-04608
Beechcraft Bonanza JKM35	13-04602
Beechcraft Bonanza NP35	13-04604
Beechcraft Bonanza V35	13-04605
Beechcraft Bonanza V35TC	13-04606
Beechcraft Bonanza A36 thru '83	13-04607
Beechcraft Debonair CEF33	13-08697
Beechcraft Duchess 76	13-04648
Beechcraft Bonanza S35	13-08698
Beechcraft Sundowner	13-08696
Cessna 150 '59-'63	13-08605
Cessna 150L	13-08606
Cessna 150M	13-08607
Cessna 152	13-08610
Cessna 172 F, G, H	13-08612
Cessna 172 J, K, L	13-08613
Cessna 172 M	13-08615
Cessna 172 N	13-08620
Cessna 172 P	13-08625
Cessna 172 R G1000	13-04575
Cessna 172 RG	13-08635
Cessna 172 S	13-04576
Cessna 172 S G1000	13-04577
Cessna 177	13-08636
Cessna 177 RG	13-08637
Cessna 182 E-M	13-08638
Cessna 182 P	13-08639
Cessna 182 Q	13-08640
Cessna 182 R	13-08641
Cessna 182 RG	13-08645
Cessna 182 S	13-04578
Cessna 182 T	13-04579
Cessna 182 T G1000	13-04580
Cessna T182T	13-04581
Cessna T182T G1000	13-04582
Cessna 206H	13-04583
Cessna 206H G1000	13-04584
Cessna T206H G1000	13-04585
Cessna T206H G1000 GFC700 S	13-05637
Cessna T206H G1000 GFC700 C	13-05638
Cessna T206H G1000 Amphibian	13-05394
Cessna 210M	13-05476
Cessna T210M	13-05483
Cessna 210N	13-05482
Cessna T210N	13-05484
Cessna 303 Turbo Crusader S	13-05635
Cessna 303 Turbo Crusader C	13-05636
Cessna 310Q	13-04629
Cessna 310R	13-04630
Cessna 340A	13-04631
Cessna 402B	13-04632

Checkmate Checklists All Models - \$16.95
 Checkmate Universal Single P/N 13-08705.....

Description	Part No.
Cessna 421B	13-04634
Cessna 421C	13-04637
Cirrus SR20-Electric	13-04614
Cirrus SR22	13-04615
Citabria 7ECA	13-04609
Citabria 7KCAA	13-04610
Citabria 7KCAB	13-04611
Citabria 7GCBC	13-04612
Diamond DA20 C1	13-04621
Diamond DA20-100	13-04622
Diamond DA40-180	13-04623
Diamond DA40-180 G1000	13-04624
Diamond DA40-180 FP	13-04625
Diamond DA40-180 FP G1000	13-04626
Diamond A42 G1000	13-04656
Maule MT 7-235	13-04613
Mooney 201 (M20J)	13-08700
Mooney Encore M20K	13-05492
Mooney M20K-231	13-04616
Mooney M20K-252	13-04617
Mooney M20M/Bravo	13-04618
Mooney M20M/Ovation	13-04619
Mooney M20R/Ovation	13-05493
Mooney M20R/Ovation G1000	13-04620
Mooney M20S/Eagle	13-05494
Mooney M20TN/Acclaim Standard	13-04714
Mooney M20TN/Acclaim Compact	13-04715
Piper 6X	13-04586
Piper 6XT	13-04587
Piper Archer II	13-08670
Piper Archer III	13-04591
Piper Archer III with Avidyne Entgra	13-05487
Piper Arrow II	13-08675
Piper Arrow III	13-08680
Piper Arrow 180	13-04592
Piper Arrow 200	13-04593
Piper Aztec E	13-04643
Piper Aztec F	13-04644
Piper Cherokee 140	13-08655
Piper Cherokee 180	13-08656
Piper Cherokee 235	13-08685
Piper Cherokee Six/26	13-05485
Piper Cherokee Six/30	13-05486
Piper Lance	13-04594
Piper Lance II Turbo	13-04588
Piper Malibu 310	13-04598
Piper Mirage 350	13-04599
Piper Navajo 310	13-04645
Piper Navajo 350 Chieftan	13-04647
Piper Saratoga FG	13-04595
Piper Saratoga SP	13-04589
Piper Saratoga II HP	13-04596
Piper Saratoga II TC	13-04597
Piper Seminole	13-08690
Piper Seneca I	13-04639
Piper Seneca II	13-08695
Piper Seneca III	13-04640
Piper Seneca IV	13-04641
Piper Seneca V	13-04642
Piper Tomahawk	13-08650
Piper Twin Comanche	13-04638
Piper Warrior	13-04588
Piper Warrior II	13-08665
Piper Warrior III	13-04590
Piper Warrior III with Avidyne Entegra	13-05640
Piper Warrior III Standard	13-05639
Symphony SA160	13-04628

CHECKMATE IFR



In the IFR environment organization and management lead to smoother, stress-free and safer outcomes. CheckMate IFR will assist you through preflight planning to touch-down on the IFR flight. Whether you are cleared for the complete approach or radar vectored to the FAF, CheckMate IFRs format will help keep the flight business orderly and functional. It is precise & specific to the different phases of those sometimes precarious flights. You will be reminded when to prepare and look ahead to each phase. A quick review of CheckMate IFR before flight will help you determine pilot and aircraft preparedness and legalities, how to give those greatly appreciated pilot reports on icing and turbulence, and what ATC expects you to do after radio failure; Professional information in a concise and orderly manner. Standard (6" x 9.5") P/N 13-08805.....
 Compact (5" x 7")..... P/N 13-08810.....

Available in three sizes.
 Standard (6.5"x 9") P/N 13-00444
 Compact (5"x 7") P/N 13-00446
 Pocket (3.75"x 3.25")..... P/N 13-00447

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.
 Standard (6.5"x 9") P/N 13-00444
 Compact (5"x 7") P/N 13-00446
 Pocket (3.75"x 3.25")..... P/N 13-00447

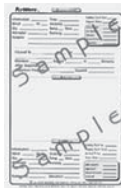
CHECKBOOK CHECKLISTS



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

Part No.	Description (Checkbook Checklist for:)	Price	Part No.	Description (Checkbook Checklist for:)	Price ea.
13-03091	Cessna 150 D-K	.	13-01275	Cessna 182Q	.
13-01262	Cessna 150M	.	13-01276	Cessna 182R	.
13-01263	Cessna 152	.	13-01277	Cessna 182S	.
13-01264	Cessna 172FGH	.	13-01278	Cessna 182RG	.
13-01268	Cessna 172R	.	13-01280	Cherokee160	.
13-01270	Cessna 172P	.	13-01281	Cherokee180	.
13-03102	Cessna 172RG	.	13-01282	Piper Warrior	.
13-01272	Cessna 182E-M	.	13-01283	Piper Warrior II	.
13-01273	Cessna 182N	.	13-01284	Piper Archer II	.
13-01288	Piper Seminole	.	13-01286	Piper Arrow II	.
13-01291	Piper Seneca I	.	13-01287	Piper Arrow III	.

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, hobs times, tach times, airport information, frequency changes, hand-offs, altitude changes, weather, etc, now have a home. There is also an area for random information or diagrams. FlyWrite™ also contains a handy vertical scale which measures mileage for WAC, SEC, TAC, NOS, JEPP, & ELA charts, eliminating the need for that ruler you can never find.
 P/N 13-03307.....

MOUNTAIN FLYING CHECKMATE



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

CheckMate Aviation's Mountain Flying CheckMate™ covers both the rules and common sense of flying that are critical when in this aspect of flight. Available in 3 sizes. Each carries CheckMate's usual lifetime guarantee.

Standard (6.5"x9") P/N 13-02713.....
 Compact (5"x7") P/N 13-02714.....
 Pocket (6.75"x3.25")..... P/N 13-02716.....



CHECKLISTS

PROPILOT CHECKLISTS



Step up to professional quality with ProPilot Checklist! These handsome booklets are fully laminated and wire-bound for durability and long life, and are perfect for VFR and IFR pilots of all skill levels.

All Preflight, Normal, and Emergency procedures are included. IFR checklist items are integrated into phase of flight, and IFR Approach and Departure Briefing sections are also provided.

Flight planning is simplified by the inclusion of aircraft-specific performance data (V-speeds, takeoff distance, climb performance, cruise power settings, true airspeed, fuel burn, and landing distance), as well as weight and balance graphs. No

more digging through a bulky POH for critical performance numbers! Additionally, a wealth of other useful information is included, such as VFR communications and weather requirements, METAR & TAF codes, IFR Holding Procedures, illustrated Airport Signs & Markings, Light Gun Signals, and Intercept Procedures.

Conveniently sized at 6" wide by 9" high, ProPilot Checklist fits easily on your kneeboard. It's truly "The Last Checklist You'll Need!"™

Description	Part No.	Price
ProPilot Checklist Cessna 150M	13-06103	.
ProPilot Checklist Cessna 152	11-05187	.
ProPilot Checklist Cessna 172P	11-05188	.
ProPilot Checklist Cessna 172R	11-05189	.
ProPilot Checklist Cessna 172RG	11-05192	.
ProPilot Checklist Cessna 172S/SP	11-05190	.
ProPilot Checklist Cessna 172S/SP NAV	11-05191	.
ProPilot Checklist Cessna 172M	13-05121	.
ProPilot Checklist Cessna 182R	13-05122	.
ProPilot Checklist Cessna 182S	13-05123	.
ProPilot Checklist Cessna 182T	13-05124	.
ProPilot Checklist Cessna 182T NAV III	11-05193	.
ProPilot Checklist Cessna R182RG	13-05125	.
ProPilot Checklist Cessna TR182RG	13-05126	.
ProPilot Checklist Cessna Turbo T182	11-05194	.
ProPilot Checklist Cessna 172N	13-04940	.
ProPilot Checklist Cessna 206 NAV III	13-04941	.
ProPilot Checklist Cessna Turbo T206H	13-04942	.
ProPilot Checklist Cessna Turbo T206H NAV III	13-04943	.
PropPilot Checklist Cessna A36-927 up	13-05127	.
ProPilot Checklist Diamond DA20-C1	11-05195	.
ProPilot Checklist Diamond DA40-180	11-05196	.
ProPilot Checklist Piper PA28-161	13-04792	.
ProPilot Checklist Piper PA28-181	11-05197	.
ProPilot Checklist Piper PA28R-201	13-04794	.
ProPilot Checklist Piper PA28-161 Warrior II	13-04944	.
ProPilot Checklist Piper PA28R-201 Arrow	13-04945	.
ProPilot Checklist Piper PA34-200T Seneca II	13-04946	.

THE PRECIFLIGHT CHECKLIST



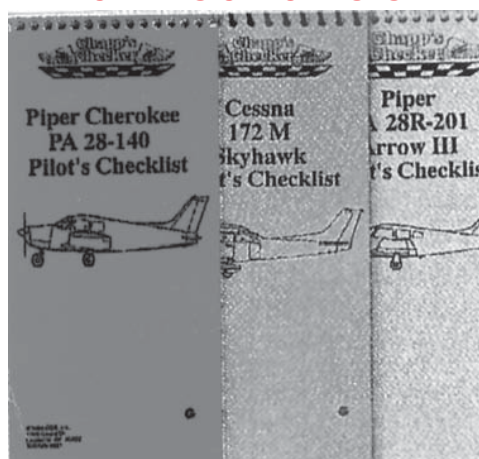
More than just a checklist, PRECIFLIGHT® will actually help pilot along all phases of flight: from preparation to tie-down and through emergencies. It is a brightly colored 18 pages booklet at is logically divided to minimize page flipping. Once used to it, it is a natural as good landings.

It regroups important information such as light gun signals, VFR minimums, weather symbols and all that with easy to interpret drawings. Even better, it has features that pilots have to look for in other publications and equipment like a built-in 1/500 000 ruler, frequently used aviation phone numbers and Internet sites and more.

PRECIFLIGHT® was also designed for convenience: it will fit in your shirt pocket or clip on the aircraft yoke where it will be available to use with one hand. Made of a sturdy waterproof paper, it will last a lifetime. It is designed to conform to FAA and Transport Canada regulations by a team of flight instructors and airline pilots

Description	PN	Price
Cessna 150/152	13-04979	\$28.50
Cessna 172	13-04980	\$28.50
Piper PA 28-160	13-04981	\$28.50
Piper PA 28-180	13-04982	\$28.50
Universal Model	13-04983	\$28.50

CHAPPS CHECKLISTS



Chapp's Checker provides aircraft-specific, POH-accurate checklists for a number of airplanes. Made of heavy, plastic-laminated paper, the Checkers are top spiral bound and measure about 3 x 6.5 inches. Tabbed indexing of each page makes selecting the needed checklist a 2-second operation.

The checklists are presented in order of use during a normal flight. Emergency procedure checklists are boldly marked for quick access. In addition, there is a page on which you can write your local radio frequencies.

The POH checklists comprise just 85 percent of each Chapp's Checker. The remaining 15 percent is composed of good piloting procedures, such as when to contact ground control or the tower. A separate page lists all of the aircraft's V-speeds. The back cover provides general information about the aircraft in question, such as gross takeoff/landing weight, engine type, fuel capacity, and true airspeed, power settings, and fuel consumption (in gallons per hour) at different altitudes.

Cessna Checklists	Part No.	Price
C-150 (1959-1977)	13-03390	.
C-152 (1978-1985)	13-03391	.
C-172H (1967)	13-03392	.
C-172M (1973-1976)	13-03393	.
C-172N (1977-1980)	13-03394	.
C-172P (1981-1986)	13-03395	.
C-172Q (1983-1985)	13-03396	.
C-172R New (1996-)	13-03397	.
C-172S New (1997-)	13-03398	.
C-172RG (1980-1985)	13-03431	.
C-177B (1970-1978)	13-03399	.
C-182Q (1980-1986)	13-03401	.
C-182S New (1997-)	13-03402	.
C-182RG (1978-1986)	13-03403	.
Piper Checklists	Part No.	Price
Tomahawk (1978-1982)	13-03404	.
Cherokee 140 (1964-1977)	13-03405	.
Cherokee 180 (1963-1975)	13-03406	.
Warrior 151 (1974-1977)	13-03407	.
Warrior 161 (1997-1990)	13-03408	.
Archer II 180 (1976-1990)	13-03409	.
Arrow 180 (1967-1971)	13-03415	.
Arrow II (1973-1978)	13-03410	.
Arrow III 201(1977-1990)	13-03414	.

PS

PLOTTERS

FLIGHT COMPUTERS



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 cross-wind 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



E6B 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



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



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

P/N 13-02301

FOLDING LAP BOARD



This 9" x 16" flying desk has 2 large clips to hold in-flight necessities such as charts, flightlogs, and approach plates. Lost communications procedures for both VFR and IFR, light gun signals, position reports, frequencies, and transponder codes are silkscreened on the brushed aluminum lapboard for quick reference during

emergencies. It folds in half when less space is needed and for convenient storage. Foam strips on the back keep the lapboard comfortably in place.

P/N 13-02314

TRI-FOLD KNEEBOARD



For the pilot who has a little more to juggle, the Tri-Fold Kneeboard uses the expertly styled VFR Kneeboard in a 3-panel jacket. The high-quality construction features durable material & double-sewn seams where extra stress takes place. The color is jet black with a logo attractively embroidered in silver on the front. The left panel has ample

room for small books, papers and unusually shaped items. The center panel holds the kneeboard under clear plastic. Either side of the center includes a pen/pencil holder and buttonholes that allow the pilot to fold back one or both panels of the kneeboard with the legband. This is ideal when operating a cyclic or stick. The right-hand side contains a clear pocket for easy map viewing. The elastic legband has velcro closures and will comfortably fit any leg size. Try the kneeboard that puts everything at your fingertips.....

P/N 13-06950

PLOTTERS

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



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

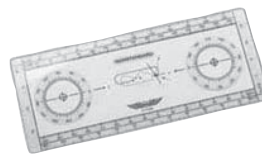
P/N 13-02302

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 .

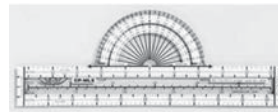
ULTIMATE MICRO PLOTTER - 8" long. Convenient for flight bag, shirt pocket, or airplane storage. Made in USA.

P/N 13-02303



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

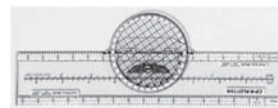
P/N 13-02306



FIXED PLOTTER - Constructed of sturdy clear plastic with easy-to-read numbers and scales. It includes WAC, Sectional, and Terminal Area scales, and is checked and approved by the Weights and Measures Department.

Quick scale reference is provided for both statute and nautical miles.

P/N 13-02304



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

P/N 13-02307

ASA IFR & VFR KNEEBOARDS



These IFR and VFR Kneeboards are an attractive, light gray, brushed aluminum. Instrument and visual information is clearly silkscreened on the boards so pilots can quickly reference rules at a glance when operating a cyclic or stick. All information on the Kneeboards match current Federal Aviation Regulations. The Kneeboards feature a comfortable, 1.5" wide elastic legband that hugs the leg without binding. Velcro fasteners

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

VFR Kneeboards P/N 13-06925.....

IFR Kneeboards..... P/N 13-06930.....

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.



NACO.....P/N 13-01066
7-Ring.....P/N 13-02316

FLIP BINDER

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



P/N 13-02321

BINDER KIT

Contains 1 binder, 10 sheet protectors, 5 color side dividers and a sheet of area stickers. NOS kit also contains 3 color dividers which hang from the bottom.



NACO.....P/N 13-01065
7-Ring.....P/N 13-02322

ASA DELUXE RING BINDER

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



almost any flight bag.

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

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

SHEET PROTECTORS

Made of durable, translucent plastic to protect the most frequently used approach plates. Sold in packs of 10.



NACO Vinyl Pocket pk of 10P/N 13-02317
NACO Poly Folders pk of 10P/N 13-05820
7-Ring Vinyl Pocket pk of 10P/N 13-02318
7-Ring Poly Folders pk of 10P/N 13-05821

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-RingP/N 13-02323
4-RingP/N 13-05826

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-Ring.....P/N 13-05822

CHART WALLETS

These chart wallets organize, hold, carry, and display standard FAA charts conveniently. All styles feature black covers, silver wings logo, and clear vinyl organizer pockets so you can easily find the correct chart in a busy or turbulent cockpit environment.



Accordion-Fold Chart Wallet - 10 map pockets plus front & back covers P/N 13-02324

Book-style Chart Wallet - 6 double-sided pockets holds up to 12 maps between the covers. P/N 13-02325

Large Book-style Chart Wallet - Pockets hold up to 22 charts between the covers. Riveted spine. P/N 13-00412

YOKE CLIP

ASA's new yoke clip holds all the necessary flight paperwork right where pilots need it, leaving their hands free to fly. Simple to install, the black plastic, I-Beam construction is strong enough to serve as a pilot's third hand. The clip is higher than other yoke clips, holding sectionals, approach plates, flight logs, checklists, flight computers, and pens in easy view.



The unique, over-centering cam easily adjusts to fit all general aviation aircraft yokes without modification. P/N 13-01043

QUICK CHECK CARDS

A great reference tool for student pilots, pilots who fly more than one aircraft, or pilots flying at a new airport. Convenient shirt-pocket size provides quick access to aircraft V-speeds, weight and balance limitations, airport information, radio frequencies, and light gun signals. The durable plastic cards have room for pilots to write in their own data. Sold in packs of 5.



P/N 13-02332

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 13-02331

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
SFR Commercial.....P/N 13-01549
SFR Instrument.....P/N 13-01551
SFR Helicopter.....P/N 13-01547

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.



Solo Flight Certificate.....P/N 13-02326
Private Ground School Certif.P/N 13-02327
Aviation Achievement Certif.P/N 13-02330
Helicopter Solo Flight Certif.P/N 13-02329

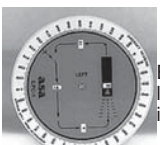
HOLDING PATTERN VISUALIZER

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

LANDING PATTERN COMPUTER

Easily helps determine appropriate headings for each leg when landing or departing the airport - great teaching aid!



P/N 13-06935

HEADSET BAGS / FLIGHT BAGS

FLIGHT ATTACHE' - Holds all the materials a student pilot needs. 15" long x 11" deep.



P/N 13-02335

FLIGHT BAG - 23.5" long x 7.5" deep

x 7.5" wide with expandable pockets. P/N 13-02336



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

DOUBLE HEADSET BAG - Double-sided, 1/4" padding everywhere; can hold two headsets.



P/N 13-02334

ASA PILOT CAP

Pilot cap featuring comfort headband and classic wings logo. Stylish baseball cap. Black with classic grey trim neatly embroidered with 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 13-05841

FLIGHT COMPUTERS - LOG SHEETS - PLACARDS



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 discs. Each computer comes with handsome vinyl case and fully illustrated manual.

CR-3 - 3-3/4" dia. shirt-pocket size (same as Jepp CR-5); vinyl P/N 13-03499

CR-4 - 4-1/4" dia. (same as Jepp CR-2); vinyl. Standard model used by the military. P/N 13-03501

CR-6 - 6" dia. Used by navigators for maximum readability (Same as Jepp CR-3); vinyl. P/N 13-03502



AERO PRODUCTS RESEARCH FLIGHT DESK

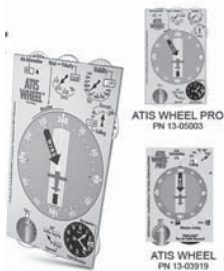
Folded size 8" x 9" Extends to 16" x 9" Anodized aluminum. Versatile space-saver lap desk locks in open position; folds in half for drop-in storage in your flight case. Heavy-duty clips hold charts and flight plans. Important VFR and IFR information always visible when open. Foam strips on back keep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

AERO PRODUCTS RESEARCH TIME/ SPEED/ DISTANCE COMPUTER



Time/Speed/Distance computers. "How-to-use" instructions printed right on the unit. Text printed 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 alum. P/N 13-01133

THE ATIS WHEEL



Atis Wheel - Pilots and air crew now have the ability to reduce their pre-landing and pre-takeoff workload through the use of the amazing new Atis Wheel™.

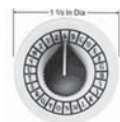
The Atis Wheel™ is a mechanical device designed to help the airplane pilot in recording all ATIS information while presenting the data as a graphic depiction. The Atis Wheel™ is presented on a 5.5" x 8.5" rectangular durable format with seven individual 1.5" wheels positioned about the perimeter of the device along with two, 3" concentric wheels positioned in the center. Each wheel's topic coincides with

the sequential information reported in the airport terminal broadcast. Once the information is entered onto the Atis Wheel™, this displayed information is now available to the pilot for continued reference without the possibility of transcription error or forgetting the pertinent ATIS data. (It is recommended that the pilot listen to the pre-recorded ATIS information twice to verify that the correct information has been entered on the Atis Wheel™.) The Atis Wheel™ information coincides with the sequential layout of the Atis Wheel™, providing the pilot with all of the broadcast ATIS information data. Additionally offered on the Atis Wheel™ (though not offered in the ATIS broadcast) is an input on a wheel to display the airport Field Elevation, critical for instrument approaches. The Atis Wheel™ also displays clearly the visual relationship between the wind direction and the active runway, informing the pilot as to the pending cross wind takeoff and landing situation. The ATIS Wheel is 5-1/2" x 8-1/2" and fits nicely into a Jeppesen binder. This is a large format preferred by flight instructors and students. **Atis Wheel Pro** - Like the ATIS Wheel, but smaller (approximately 3.5" x 5.5") for the professional pilot to conveniently fit in a shirt pocket for quick and easy reference. Note, the ATIS Wheel Pro does not contain the "Wind Velocity", "Visibility" or RWY/Approach" wheels like its big brother

ATIS Wheel Pro - Like the ATIS Wheel, but smaller (approximately 3.5" x 5.5") for the professional pilot to conveniently fit in a shirt pocket for quick and easy reference. Note, the ATIS Wheel Pro does not contain the "Wind Velocity", "Visibility" or RWY/Approach" wheels like its big brother

ATIS wheel P/N 13-06643

ATIS wheel Pro P/N 13-05003



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



AERO PRODUCTS RESEARCH T/S/D COMPUTER KEYCHAIN

1-1/2" diameter. Identical to the real thing, this traditional usable Time/Speed/Distance keychain has a beautiful compass star with flight plan on the back side. The computer keychain is calibrated meaning the ability to relate the key chain to the functions of the E6-B type Time/Speed/Distance computers. P/N 13-03505



AERO PRODUCTS RESEARCH CR COMPUTERS

Simplify VFR or IFR navigation with these handy logs which provide for listing of intersections, radials, frequencies, clearances and complete flight plan. EFL-100 Pad of 5-1/2" x 8-1/2" sheets; P/N 13-03526

VFR Flight Logs
EFL-200 Pad of 5-1/2" x 8-1/2" sheets; IFR Flight Logs P/N 13-03527

EFL-100 Pad of 11 " x 8-1/2" sheets; organized detailed pre-planning and navigation on cross-country flights. Includes pre-flight checklists and sample instruction sheet. P/N 13-03528



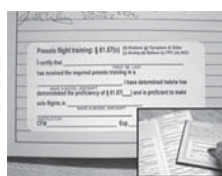
AERO PRODUCTS RESEARCH PLACARDS

Now you can customize your cockpit with APR's easy-to-apply placards. Just cut out and press these stick-ons into place for that "factory-fresh" cockpit look. For all single and multi-engine aircraft systems, seaplanes, and gliders. Includes most-used legends (on, off, open, close, etc.), common amperage, voltage values, arrows, numbers and blanks. 8-1/2" x 10-1/2"; aircraft panel placard set; over 250 aluminum placards.

APR Instrument Panel Placard Set P/N 13-03522

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



SPORT PILOT PRE-PRINTED LOGBOOK ENDORSEMENTS

The Instructors Endorsement Pack contains 14 sheets of labels. Each sheet of labels contains 10 copies of a specific endorsement. Each 2" x 4" endorsement label is identified by title and FAR number, has the exact wording as required by the regulations, and has data-

prompted blanks for the students' name, your name, CFI cert.#, Biennial Flight Reivew Certification 61.56(a).

Description	Part No.	Price
INSTRUCTOR ENDORSMENT PK ENPAK	09-01310	.
PRE-SOLO AERONATICAL KNL 6187B	09-01311	.
PRE-SOLO FLIGHT TRAINING 6187C	09-01312	.
PRE-SOLO TRNG & 90 DAY RENL	09-01313	.
SOLO AT ANOTHER AIRPORT 6193B	09-01314	.
1ST SOLO X-C 61.93(C)(1) 6193C	09-01315	.
SOLO X-C 61.93 (C)(2) 6193C2	09-01316	.
REPEATED SOLO X-C <=50NM 6193B2	09-01317	.
SOLO IN CLASS B,C & D 6194A	09-01318	.
SOLO TO/FROM CLASS B,C OR D	09-01319	.
TAKING KNOWLEDGE TEST 6135A	09-01320	.
PROFICIENCY CHECK 61321	09-01321	.
PASSING FLIGHT TEST 61309	09-01322	.
TAKING SPORT PILOT PRACT 61313	09-01323	.

PS

FLIGHT COMPUTERS



CX-2 PATHFINDER ELECTRONIC FLIGHT COMPUTER

ASA's new electronic flight computer is a price/performance breakthrough, resulting from advances in display and microcomputer technologies. Aviators can calculate true airspeed, ground speed, mach number, altitudes, fuel headings and courses, time/speed/distance, winds, headwind/crosswind components, gliding info and weight & balance.

P/N 13-01040.....



JEPPESEN CIRCULAR COMPUTERS

Dial up the answers to your navigation problems, including polar grid navigation, pressure pattern flying, crosswind components, and wind solutions. These computers automatically compensate for the temperature and compressibility factors found at high speeds. Tough laminated plastic, with carrying CR-3 (6" diam.)

case. P/N 8434.....

PN-1 NAVIGATION PLOTTER



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

P/N 13-21724.....

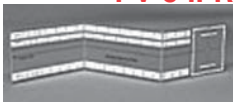


PJ-1 ROTATING AZIMUTH

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

P/N 13-21726.....

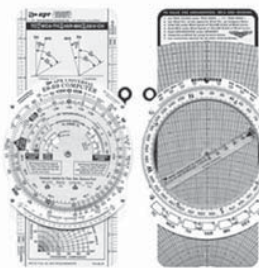
PV-5 IFR ENROUTE PLOTTER



Folding Navigational Plotter (Size: 3-3/16 x 8-1/2 inches) Pocket sized, fold out to full size (15"). The course line extends the entire length to measure true course from line of latitude or longitude. Scales for WAC, Sectional

and TCA charts are calibrated in nautical miles, statute miles and kilometers. Folded Size: 2-3/4"x5-3/16" P/N 13-21722.....

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. Most E6-B computers include the following:

- **Improved Instructions** - The back side of the wind slide features scales for Sectional and WAC charts and new graphic instructions on how to work the computer.

- **Formula Boxes** - Designed to assist in solving problems. Enter the indicated details using a pen or pencil - then erase

• Fully Graduated Scales

Wind Slides with speed ring lines representing values of one. This eliminates the need for interpolating between "every other" speed ring and reduces possibility of error.

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 with contrasting colors for easy computation. • "Universal" conversions color-coded for quick and easy use. • Heavy gage anodized aluminum for added rigidity and non-glare surface. • 2-color fully illustrated instruction manual plus supplement on Dead Reckoning, Wind Effect Theory and Calculations P/N 13-03492.....

cket-size deluxe, all anodized aluminum; high/low wind slide. P/N E6-B4.....

E6-B8 - Budget student computer, plastic body, plasticized wind slide..... P/N 13-03495.....

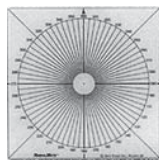
E6-B8P - Budget student computer, plastic body, plasticized wind slide; includes an 8" Navigation Plotter. P/N 13-03496.....



PILOT'S WIND VISUALIZER

The Wind Visualizer takes the guesswork out of crosswind takeoffs and landings. Simply put the Wind pointer on the wind direction, the Landing Pointer on the Runway heading, and "see" the wind in relation to your direction of flight. Then read your crosswind component from the table on the back. Simple, and fast to use. Durable non-warping 3.75" diameter plastic. Includes full instructions.

P/N 13-19520.....



RADIALMATE COMPASS ROSE

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

P/N 13-08799.....



PDQ COMPUTER

The PDQ Computer is a quick visual presentation of the traffic pattern at your airport of arrival. Easy to operate with one hand, the PDQ shows you the 45° entry, downwind, base and final approach to the active runway. Durable plastic construction. Instructions included.

P/N 8313.....

JEPPESEN STUDENT CSG COMPUTERS



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

Plastic..... P/N 3866.....

Metal..... P/N 3867.....



EZ-VOR (A VOR TRAINING TOOL FOR STUDENT PILOTS)

Ever wish you could quickly determine where you are in relation to a VOR? I thought I was the only one! There are too many pilots that simply dial in a "TO" reading and fly to the VOR. Now you don't have to! EZ-VOR is designed to allow anyone, pilot or not, to quickly and easily determine the relative direction to the VOR.

Simply dial in your heading, your OBS setting and with a quick glance at your "TO - FROM" indicator and "Left & Right" needle deflection, your position relative to the VOR is amazingly apparent. Best of all, the directions are printed right on the back, no ten page manual to read! Small enough to fit on most kneeboards (5-1/2" in diameter) yet large enough to see clearly and accurately. P/N 13-04305.....



ASA E6B METAL FLIGHT COMPUTER

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

Standard..... P/N 13-00813.....

Mini..... P/N 13-02299.....



VOR FLASH CARDS

Designed to show any pilot how to look at a VOR receiver and read it at a glance. There's no time in the cockpit to spend slowly analyzing the CDI needle and To/From indicator! VOR-At-A-Glance flash cards will teach you: • The difference between VOR courses and VOR radials • What the VOR does not

show you • The best way to think about the course deviation indicator • Inbound vs. outbound course indications • How to instantly know your position relative to the VOR • Tricks for reading interception courses right off the VOR • Pilots need to be able to look at a VOR and read the information off immediately. It's just like when you first learned how to read. There is a big difference between the ability to sound the words out and the ability to look at a work and just read it. Pilots need to be able to "read" the VOR! P/N 13-05773.....

PLOTTERS - COMPUTERS

PLOT-RITE ALL METAL NAVIGATION PLOTTER



The new Plot-Rite is an all metal navigational plotter for use with VFR sectional, terminal and WAC charts. The front has both sectional and terminal area scales and the rear has WAC and sectional scales. The top edge has the familiar 180° compass rose and the open center enables you to find longitude lines easily. Outside edges have full east and west routes, inside edges have north and south. Plot-Rite is all metal and will never break, warp, crack, shrink or distort in any way if left in the sun. Measures 2.5" x 12". Plot-Rite (Nautical Scale)

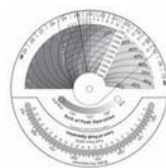
P/N 13-30300



THE AIRMILER TAPE MEASURE FOR CHARTS

An essential tool for every flight planning kit. A durable metal tape measure for measuring mileages on aeronautical charts. Sectional Scale (1:500,000) on one side, and WAC scale (1:1,000,000) on the other side. Kilometers, statute and nautical miles are shown on both sides.

P/N 8036



APS POWER WHEEL HORSEPOWER COMPUTER

Only device that we know of which can calculate your aircraft engine's power based on so many important factors. Using the RPM, manifold pressure, altitude and outside air temp, the pilot can use the Power wheel to calculate horsepower (as a % of max rated hp) very quickly and easily. Its calculations are based

on years of work done by the engine experts at Advanced Pilot Seminars and GAMI. Their calculations have proven their accuracy and worth to the pilot over years of use. Beyond the immediate answer to the question "How much power is my engine producing?" the information is useful in another way. Knowing how much power is being produced allows the pilot to operate the engine in a way that will reduce the stresses it sees, offering longer life and reduced operating expenses. Once the pilot uses the Power Wheel to find their % hp, they can take the next step to find the mixture setting that will be best for their engine. Built on the Red Box concept (and as seen in AOPA Pilot, Feb 2004, p 120) the mixture settings suggested by the computer will keep the engine's internal combustion pressures low, out of the Red Box region of operation.

- PMC-NA-2625.....P/N 13-03131
- PMC-NA-2700.....P/N 13-03132
- PMC-NA-2600.....P/N 13-04213
- PMC-NA-2600c.....P/N 13-04214
- PMC-NA-2600.....P/N 13-04215

Visit www.aircraftspruce.com to specify aircraft and engine make & model and we will provide correct APS Computer.

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.

Description	Part No.	Price
8" Plotter NP-7 Standard for WAC and Sectional Charts	13-19908	.
13" Plotter NP-13 Standard for WAC and Sectional Charts	13-19913	.
13" Plotter WSNP-13 WAC and Sectional Charts (Lexan) Lifetime Guarantee	13-03509	.
13" Plotter NPR-13 Rotatable Azimuth WAC and Sectional Charts	13-03511	.
13" Plotter WSNPR-13 Lifetime Guarantee Rotatable Azimuth WAC and Sectional Charts (Lexan)	13-03512	.
Universal IFR Plotter UIP-V (Same as Jeppesen PV-5) Jepp/NOS Charts Holding Pattern Entry (Vinyl)	13-03514	.
Description	Part No.	Price
Universal IFR Plotter RFC-1 Jepp/NOS Holding Pattern 3-1/2" x 8"	13-03513	.
13" Plotter FAA-170 Military WAC and Sectional Charts	13-03516	.

INTERNATIONAL NAVIGATION PLOTTERS

Description	Part No.	Price
Plotter/Protractor CPP-5 Douglas International Combination Plotter/Protractor	13-03506	.
13" ICAO Plotter IP-13 Fixed Azimuth, Nautical/Kilometer Scales	13-03507	.
13" ICAO Plotter IPR-13 Rotatable Azimuth, Nautical/Kilometer Scales	13-03508	.

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.

- 8" APR PlotterP/N 13-19908
- 13" APR PlotterP/N 13-19913
- E6-B4 Aluminum.....P/N 13-03960



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
- E6-B Flight Computer.....P/N 13-00813



WHIZ WHEEL HOLDING PATTERN COMPUTER

For instrument pilots, entering a holding pattern can sometimes be a challenge. The Instrument Pilots Whiz Wheel can alleviate this challenge by presenting pilots with pictorial views of both right- and left-hand holding patterns, and entry arcs for direct, parallel, and teardrop holding pattern entries. Made of sturdy plastic, the Whiz Wheel works for VOR, NDB (non-directional beacon), and localized facilities. Intercept angles are at the pilot's fingertips, and procedure turn information can readily be obtained by following the "prompts" on the device and aligning these prompts with the Whiz Wheel's compass marking. Intersection holding patterns can be pictured and coordinated using both VOR radials and cardinal headings. P/N 13-30210.....

DIRECTIONAL GYRO HOLDING PATTERN PROMPTER DECAL



Install this decal upon the face of your directional gyro and instantly determine entry procedures for both left-hand and right-hand holding patterns. Also includes prompts for headings used in teardrop procedures and procedure turns. Totally transparent. Includes instructional text. P/N 13-30215.....



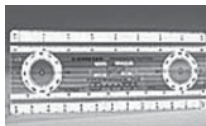
PILOT'S "TIME MACHINE"

Convert the 12 hour clock to the twenty-four hour clock and to Universal Coordinated Time (UTC). Time zone chart is included. Fuel duration calculation can be determined with this new instrument. Use it to file accurate flight plans and to give position reports. P/N 13-30225.....

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.....



JEPPESSEN PV-5 IFR ENROUTE PLOTTER

Size 3-3/16" x 8-1/2"
P/N 13-21718.....



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 to U.S. Military Pilots specification. 5" x 4" x 1-1/2" NSN 1680-00-489-1313

- APR FCL-12 Flight Checklist Holder.....P/N 13-06714
- APR FCL-24 Flight Checklist Holder.....P/N 13-06715

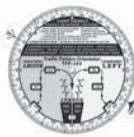


AERO PRODUCTS RESEARCH PRODUCTS

APR PLOTTERS & KNEEBOARDS



PROTRACTOR PLOTTER PCP-202 T/S/D - APR has designed the first combination T/S/D pocket computer combined with rotatable 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.....



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

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



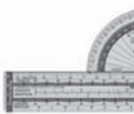
T/S/D PROTRACTOR PLOTTER PCA-302 - APR has designed the first combination T/S/D pocket computer combined with rotatable plotter cursor. Align the airplane cursor with the true or magnetic course. Align the arrow cursor along any appropriate meridian. Anodized aluminum discs, 3-3/4" dia. Plastic cursor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

TRAFFIC PATTERN ORIENTATOR TPA-303 - The TPA-303 Traffic Pattern Orientator graphically displays all headings for left (standard) and right (non-standard) traffic patterns when the runway heading is aligned with the compass rose. Light signals and "acknowledging" instructions are also shown. Anodized aluminum discs, 3-3/4" dia. Cursor 4-1/4" P/N 13-06687.....

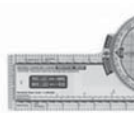


DENSITY ALTITUDE PERFORMANCE COMPUTER DAA-304 - The Density Altitude Performance computer shows the aircraft's rate of climb and minimum-required takeoff distance. Anodized aluminum discs. 3-3/4" dia. Important: Always consult your pilot's operating handbook as their computer does not supplement or replace the manufacturer's performance data. Not applicable to turbocharged aircraft.
P/N 13-06688.....

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.....



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.....



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



HPC-206 - Holding Pattern Computer. Pocket size. Visually displays entry headings from all directions for both standard and non-standard holding patterns. Shows holding speeds and inbound time to fix. Colorful segments for easy learning and use. 4" x 5" HOLDING PATTERN COMPUTER displays entry to standard and non-standard holding patterns, maximum indicated holding speeds, and time of inbound leg to fix. Complete instructions. "Best on the market" designed by Capt. Barry Schiff
P/N 11-07722.....



E6-B2 - H/S - E6-B2 D with High Speed Wind Slide of 100 to 800 ks 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.....



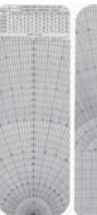
E6-B4 - H/S - Pocket size wind triangle & T/S/D deluxe anodized aluminum computer with low speed slide (10 to 270 kts or miles) and high speed slide (100 to 700 kts or miles) with compressibility "F" factors scale. Calculates all necessary flight planning and enroute navigation requirements. 3-1/4" x 6-3/8"
P/N 13-06674.....



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.....



E6-B9 - Universal Standard Wind Triangle & T/S/D Large anodized aluminum computer. calculates all necessary flight planning & enroute navigation requirements. 4-7/8" x 9-5/8"
P/N 13-03497.....



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 kts or miles, compressibility "F" factors scale shows the "F" correction factors for TAS. Gives calibrated airspeed from 200 to 550 knots at pressure altitudes of 10,000 to 50,000 feet. Crosswind grid shows method to calculate crosswind and headwind components. 3-7/8" x 11-1/8"
P/N 13-06680.....



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. PVC plastic 8-3/4" x 3-1/4"
P/N 13-06704.....



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



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.....



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.....

PS

FLIGHT ACCESSORIES - PLOTTERS

ON COURSE AVIATION PRODUCTS CHART MARKS



Customize your charts with these highly visible, self sticking, removable accents, outlines, & notes. Add a compass rose to any airport or airway intersection, outline VOR information, accent airport or communication information. 20x20nm see through

notes accept pencil or pen for your special information. All are easily removable after your flight.

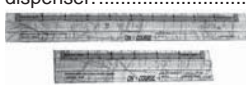
- Note (11/package).....P/N 13-30110/ea.
- Compass Rose (11/package).....P/N 13-30111/ea.
- Outlines (17/package).....P/N 13-30112/ea.
- Accents (16/package).....P/N 13-30113/ea.

COURSE LINE



End the confusion of multiple pen or pencil lines on your sectional chart. This transparent tape, brightly printed in a highly visible color, is graduated in nautical miles with distinctive 5 & 10 mile "Tick" marks. No need to pick up a plotter or scale to determine distance along your course line. Removable after flight or repositionable in flight for diversion to an alternate airport. 1/2"x 2050 nautical miles (sectional scale) w/ dispenser.....P/N 13-30114...../ea.

MAGNIFYING SCALE



At last, an accurate nautical mile scale with a built in magnifying lens to clearly enlarge the fine print on sectional charts. Made of heavy duty, extra strong, cast acrylic, printed in two colors with easy to read sectional scale graduations (1:500,000). Available in 2 sizes, 100 NM (16") for flight planning, 60 NM (10") for cockpit use. Order both.

- 60 NM.....P/N 13-30120.....
- 100 NM.....P/N 13-30121.....

JEPPESEN VOR/ADF MAGNETIC TRAINER



A great tool for demonstrating VOR and ADF navigation, the Magnetic Trainer includes an Instrument Board and a Wind Correction and Position Board, as well as an Accessory Kit with movable instrument indicators, rotating compass cards, a TO/FROM indicator, RMI designator sign, wind direction indicators, and miniature airplanes. This replacement accessory kit for the VOR/ADF Magnetic Trainer includes movable instrument indicators, rotating compass cards, a TO/FROM indicator, RMI designator sign, wind direction indicators, and miniature airplanes in various colors. P/N 13-05789.....

UNBREAKABLE SUPER PLOTTER



Here's a special flight planning tool we really like. A colorful little plotter with a rotating azimuth that makes it much easier to plot a course line. Place the compass rose over your departure point and rotate the straight edge towards destination. Presto.. an instant readout of your course! 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.....

FLIGHT FORMS



Pilot designed for pilot use - convenient kneeboard size (5.5"x8.5"). Color coded for instant recognition. Easy to read! Easy to use! Every flight-form comes with an FAA Flight Plan form. Each COMM-AID form also includes a three leg En-Route NAV-Log.

VFR CROSS COUNTRY FLIGHT PLANNING FORM - With step-by-step instructions. Folds to kneeboard size (5.5"x8.5") yet leaves all En-Route and destination information exposed for orderly display of in-flight information. Includes sections for weight and balance, fuel management com frequencies & airport diagrams. P/N 13-30115.....

EN-ROUTE NAV-LOG - For the more advanced VFR pilot, a nine leg En-Route NAV-log provides ample space for navigation data, time (estimated & actual) plus communication and destination sections. (25/pad) P/N 13-30119.....

WX-BRIEF FORMS -WX-BRIEF - forms take the mystery out of talking to briefers or controllers. Logical arrangement in correct briefer and controller sequence eliminates confusion. The WX-Brief form is arranged in briefing format to simplify note taking and increase understanding. Simply fill in the blanks as the FSS specialist gives a standard briefing. (25/pad).....P/N 13-30116.....

IN-BOUND OR OUT-BOUND COMM-AIDS - Inbound or out-bound Comm-Aids organize your communications before takeoff. Know what to say and when to say it sections for ATIS, Clearance, Ground, Tower, Departure, & Approach.

- For use in class B, C, & D airspace.(25/pad)
- In-Bound.....P/N 13-30117.....
- Out-Bound.....P/N 13-30118.....

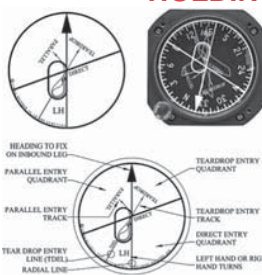
HOLDUP HOLDING SITUATION INDICATOR



The Holdup is so easy to use that directions are provided on the device only because rust can develop on a pilot's holding techniques, especially for issued, nonpublished holds. They remind you how to set up intersection holds and station holds, If you forget. (There's also a built-in way to set up station holds in a single step.) Then, in both cases, you just find your heading to the fix on the compass dial, and read the entry in the zone next to it. At a typical intersection, there are 8 (eight) possible holds that can be assigned. "Hold south of OR-

VIL intersection on the 340° radial, left turns?" You won't believe how easy this is with The Holdup until you try it. P/N 13-03365.....

HOLDING PATTERN AID



How would you like to increase the chances of passing your instrument rating? Did you know that the number one area that instrument applicants fail their check ride is Holding Patterns? It is not the hold itself, but the ENTRY procedure! Help yourself pass your test with this simple to use static clink overlay. Simply place the arrow on the radial that you are instructed to hold on and the holding pattern is overlaid on top of your heading indicator. The HPA helps you visualize the pattern quickly and easily while increasing necessary situational

awareness. No need to shuffle in your bag for a piece of cardboard or draw a picture on your knee board, the HPA will stick to your aircraft window and easily peels off when you need it. One package includes four HPA's, two left hand holding patterns and two right hand holding patterns. Developed by a Certified Instrument Flight Instructor with the intent to decrease the failure rate of instrument students and increase the level of safety that pilots are entrusted with. Get some First Aid for your holding patterns, get the Holding Pattern Aid. Measures 3" in diameter. White lines and text on a clear background.

P/N 13-04166.....

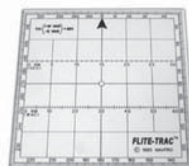
FLITE-TAPE



NAVPRO specifically designed the Flite-Tape for aeronautical use. It is available for either Sectional (1:500,000) or WAC (1:1,000,000) charts and is graduated in nautical miles. The Sectional Flite-Tape measures up to 500 n.m. and the WAC Flite-Tape measures up to 1,000 n.m. This practical product offers you many advantages, for instance: • Measure the distance between any two points on a typical chart with out "stepping off" (a typical Sectional Chart measures 375 n.m., corner to corner). • Establishes an accurate straight line course between distance points in an instant. • Flexible tape is ideal for cockpit use and on pilots lap. The Flite-Tape is pocket size (2" x 1-3/4" x 1/2"). Steel tape is housed in a high impact plastic case. The locking mechanism means you extend only as much of the Flite-Tape you need. The Flite-Tape's unique end-piece is easy to position over a check point. Flite-Tape is a quality product and comes in a vinyl storage pouch.

- Flite-Tape Sectional Charts.....P/N 13-01038.....\$8.50
- Flite-Tape WAC Charts.....P/N 13-06001.....\$7.95

FLITE-TRAC



Flite-Trac is specifically designed for aeronautical use. It simplifies measuring headings from aeronautical charts by reading naturally. Flite-Trac uses a complete 360° compass rose, and avoids any confusion in determining heading. Its square shape, aided by parallel grid lines, aligns easily with the lines of latitude and longitude on the chart. This logical protractor offers you

several advantages in the cockpit: • It is less awkward than a typical plotter, yet shows the complete compass rose on a larger scale. • Measures short distances in flight. Its grid is to a 5 n.m. scale on a Sectional chart and has a short distance scale for quick in cockpit use. •The magnetic variation formula is printed directly on a Flite-Trac to give you confidence in calculating a magnetic heading. Flite-Trac avoids the necessity to slip a plotter to a map grid line or the need to use parallel rules. Flite-Trac is a quality product made of lexan in the USA. It will not warp in a hot aircraft.

P/N 13-01039..... ea



KNEEBOARDS



VFR/IFR NAVBOARD & CHARTSAVER

Hold charts between two clear plexiglass surfaces for in-flight reference. Visible from both sides, so you can use two charts. One facing in each direction. Mark plexiglass with grease pencil without defacing chart. Pilot course lines, destinations, checkpoints, headings, vectors, etc., directory on surface. Revisions can be made during flight, easy to erase after flight. Charts stay fresh and reusable many times. Measures 12" x 10". P/N 8154

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

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

TRIFOLD KNEEBOARD



The standard features include: right and left light pockets that double as pen/pencil pockets, 1.5" wide adjustable plastic strap, 4 clear plastic information pocket, right & left document loops, side release buckle, durable wire clip, and padded backing. P/N 13-12660

The performance package includes: information cards, clear document protectors, flex light with fixed or adjustable beam, and releasable cable ties (holds document protectors securely to kneeboard) optional. P/N 13-12661

9-G PLUS KNEEBOARD



This kneeboard is originally designed for high performance fighter and attack aircraft. The standard features include: right and left light pockets that double as pen/pencil pockets, 1.5" wide adjustable plastic strap, 3 clear plastic information pocket, right and left removable document loops, side release buckle, easy access pocket, durable wire clip, and padded backing. P/N 13-12650

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

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

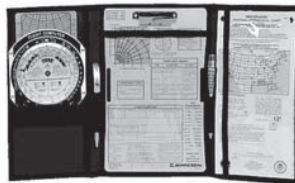
The performance package includes: information cards, clear document protectors, removable document protectors, and releasable cable ties (holds document protectors securely to kneeboard). P/N 13-12666

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 chart. Size: 10"x 20" open.

Kneeboard/Clipboard P/N 13-06956
IFR Clipboard only with leg strap..... P/N 13-06956-1



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
IFR Clipboard only with leg strap..... P/N 13-06955-1

AERO PRODUCTS RESEARCH KNEEBOARDS



5-3/4" X 10" X 2-1/2" Deluxe kneeboard. Official Air Force and Navy models with quick-release buckles and non-slip foam strips to keep the unit in place. Each model includes 2 heavy-duty paper clips, pencil holder. This is the unlighted version of MXU-163/C. Anodized aluminum. Meets all military specs.

MK-2A/C..... P/N 13-03521

5-3/4" X 10" X 2-1/2" Contoured base, non-slip kneeboard. 3" positive ext. clip for approach plates, etc. Pencil holder, comfortable leg strap, sturdy, lightweight. Black, non-glare aluminum.

MK-9..... P/N 13-03520

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

0-100..... P/N 13-03518

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

0-150..... P/N 13-03519

NAV-DATA VFR KNEEBOARD



NAV-DATA Featherweight Kneeboard. This weighs approximately 10 ounces. This board is similar to a clipboard but is much sturdier than a standard clipboard and much less cumbersome in the cockpit (dimensions are 7"x10"). It includes A VFR reminder table that includes conversions, light gun signals, flight plan info, etc. Both boards are outfitted with our comfortable form-fitting knee saddle and velcro strap assembly to ensure the board stays securely in place.

P/N 13-06086

NAV-DATA IFR KNEEBOARD



Once you own a Nav-Data IFR kneeboard, you can customize it's contents with your personalized data by simply filling in the blank 5 1/2 x 8 1/2 forms which include:

- * aircraft checklist
- * local area NAV and Com frequencies
- * navigation logs
- * flight plan forms
- * clearance copying pad

By placing these pre-recorded forms, approach plates, charts, etc., into our 3-ring transparent vinyl pocket page system (8 vinyl pockets included), you will have quick access to all of your important data. Note the retractable slider tab supporting the cover (Chart board) when open.

P/N 13-06085

KNEEBOARDS

FLIGHT DESK TRI-FOLD KNEEBOARD



Our Flight Desk Kneeboard greatly improves cockpit organization of charts and accessories. Unlike some other kneeboards with limited utility, our Flight Desk Kneeboard will hold sectional charts, a large E6B type computer, and has 2 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. Made of durable black cordura. Size: 19.25"x9.5" unfolded. Clipboard size: 6" x 9.5". P/N 13-03474 ..

NAV-DATA KNEEBOARD



The Nav-Data Kneeboard is the most well-organized kneeboard you'll ever own. It's like having a flight desk strapped to your leg. The Nav-Data Kneeboard is a unique cockpit tool which combines all the function and features of a lap board, clipboard and VFR/IFR chart holder giving it a solid reputation as the 'CHAIRMAN OF BOARDS'. The Nav-Data Kneeboard was designed, hand-made and then flight tested by experienced pilots for more than ten years. It is

manufactured using durable high-tech composite laminate and anodized aircraft grade aluminum P/N 13-06005 ..

ORGA-KNEE-ZER™ KNEEBOARDS



ORGA-KNEE-ZER™ Kneeboards are extremely versatile, organizer/kneeboards providing a standard 7-ring binder on a very stable platform with built-in pencil sharpener, combo maglite/ pencil holder and many other unique features. Compact stowage, rugged materials and powder coat finish, add even more to their rich feature set. Use for VFR or IFR flight, using NOS or Jepp charts and see how their versatility can adapt to your demanding and varied needs as pilot. The patented design of Model A1-MC allows you to flip through your charts, checklists or other reference materials, with unobstructed access to the writing surface for jotting ATC instructions or holding flight plans. It's excellent for most general aviation aircraft and is very popular with Cessna and Piper pilots. It's 9" long x 8" wide and up to 16" wide when fully

open. It can also be used as a simple clipboard for preflight checks when closed (includes 3 chart pockets). P/N 13-03326 ..

THE HEADS UP FLIGHT DESK



The Heads Up Flight Desk was developed by a certified flight instructor and honors student at Embry-Riddle Aeronautical University. While studying human factors in aviation safety, he noted that on every airline flight deck you would find a yoke mounted chart desk. The reason for the board being mounted there is to keep important information in the normal field of view for the pilot. Having to look down

and away from this normal field of view is recognized as being a hazard to flight, because it takes the pilot's eyes away from scanning either the instruments or outside the aircraft for conflicting traffic. This innovative product is a great safety enhancer. Convenient for keeping important documents in view, such as instrument approach plates, airport diagrams and flight logs. As an additional safety enhancer, we imprinted important safety briefing items on the surface of the desk. Included are a passenger briefing, crew briefing, engine failure during takeoff briefing, engine failure in flight memory items, and a pre-landing checklist. FEATURES: · Aircraft quality aluminum clipboard for durability · Low-profile spring steel clip holds documents in place · Velcro® included for attachment to yoke · Heavy-duty steel spacer and spring steel clamp · Perfect size for approach plates and airport diagrams · Easy fit in flight bags due to low profile hardware · Yoke tube clip fits 3/4 to 1-1/8" tubes (other sizes available) · Guaranteed against breakage for the life of the product* Lighted Version: · LED light illuminates entire surface for ease of reading at night · Flex neck on light easily stores out of the way for day use. · LED lasts 100,000 hours / included batteries last 100 hours. Standard.....P/N 13-04216 Lighted.....P/N 13-04217 ..

SINGLE PANEL FL-100 KNEEBOARD



The Aeroboard FL100 has a large pocket behind the clipboard to keep these items handy. The detachable clipboard can be removed and placed inside the pocket creating a platform for a GPS. 7.5" x 11". 1 large chart pocket behind the clipboard. Detachable 6"x9" aluminum clipboard. 1-1/2" wide nylon/elastic leg strap with Velcro® fastener.

FL100 Black..... P/N 13-03703..... FL100 Navy..... P/N 13-03704.....

BI-FOLD FL-200 KNEEBOARD



Aeroboard FL200 has many outstanding features which makes it one of the most useful organizational tools a pilot can have. The FL200 has a bifold design with 3-ring center binder, available in both Right & Left-hand, 10 clear page protectors (great

for organizing checklists, emergency procedures, reminders, etc.), and 2 handy large storage pockets (for charts & other items of similar size). The Aeroboard FL200 has what you've been looking for. 15" x 11" open, 7.5" x 11" closed. Features: · Bifold design available in both right- & left-hand models · 3-ring binder (includes (10) 8-1/2" x 5-1/2" clear page protectors) · 2 large chart pockets · 1 small computer pocket · Detachable 6" x 9" aluminum clipboard · 1-1/2" wide nylon/elastic straps (holds charts open) · 2 elastic pen/pencil holders SureCheck FlightPad™ included · Cover made of durable Cordura®

FL200R (RIGHT) Black..... P/N 13-03698..... FL200L (LEFT) Black..... P/N 13-03701..... FL200R (RIGHT) Navy..... P/N 13-03699..... FL200L (LEFT) NAVY..... P/N 13-03702.....

TRI-FOLD FL-300 KNEEBOARD



With its unique convertible tri-fold design and handy 3 large storage pockets (for charts, flight computers, Aerolight, etc.) the Aeroboard FL300 has what you've been looking for. Includes a 3-ring center binder, complete with 10 clear page protectors (great for organizing checklists, emergency procedures, etc.) 20" x 11" open, 7.5" x 11" closed. Detachable third

section for more expanded in-flight use. It includes additional pockets for pen/pencil, electronic flight computer, flashlight, and more! Features: · Unique design allows the versatility of converting between a bi-fold and tri-fold · 3-ring binder (includes (10) 8-1/2" x 5-1/2" clear page protectors) · 3 large chart pockets · 2 pen/pencil pockets · 1 flashlight pocket · Detachable 6" x 9" aluminum clipboard · 1-1/2" wide nylon/elastic leg strap with Velcro® fastener · 2 elastic pen/pencil holders · SureCheck FlightPad™ included · Cover made of durable Cordura®.

FL300 BLACK..... 13-03696.....

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 · Available in black, blue, red, gray.

Black..... P/N 13-02885..... Blue..... P/N 13-06905..... Gray..... P/N 13-06910..... Red..... P/N 13-02884..... Olive..... P/N 13-02903..... Replacement Flight Logs..... P/N 13-02888 ..

ARMBOARD



The ArmBoard provides agronomical, space saving writing surface as natural to wear as a wrist watch. Regardless of how large or small the cockpit is, the ArmBoard truly frees up much needed space. The product was also tested by CFIs and proved extremely useful in taking notes during flight lessons and jotting down student performance comments for follow up

during ground school. A writing pad is included with a flight planner version sold separately along with various flight reference cards to be used on the inside flap of the ArmBoard. P/N 13-06021 ..

ACCESSORIES

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

PS

FLYBOYS GEAR FOR PILOTS



FLYBOYS PUBS BAG

Ideal for keeping things "co-located" while you're flying and mission planning. Integrates perfectly with FlyBoys kneeboards. Top opening flap gives access to the main pockets. Additional smaller external pockets are located in the front, rear as well. Handy for smaller items or for sliding enroute charts and maps for quick access. Top, front and back are secured with sturdy Velcro™. Pocket on one side for a water bottle or sunglass case. Slots on the opposite side for 2 pens or pencils. The most popular choice of most fighter and trainer pilots no matter what the airframe. Also, an excellent option for civilians looking for a no frills - priced right bag. Measures 8 1/2" x 11" x 1" empty. Fully loaded it will expand out to 8 1/2" wide!

- Blue FB1020.....P/N 13-05565
- Black FB1020.....P/N 13-05566
- Green FB1020.....P/N 13-05567

FLYBOYS MISSION PUBS - BAG

Longer and wider than the FB1020 Regular PubsBag, but not as tall. 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.

- Black.....P/N 13-05622
- Blue.....P/N 13-05623
- Green.....P/N 13-05624

FLYBOYS CREW BAG

Slightly smaller than FlyBoys Large Crew Bag but with all of the features you will need to get the mission accomplished, and lots of value. Double stitching and heavy duty zippers will make this bag last a long time. Removeable shoulder strap with a rubberized pad which keeps this bag from slipping off of military flight jackets. Exterior Dimensions: 17" x 11" x 11" Interior Compartment Dimensions: 13" x 7" x 9"

FLYBOYS LARGE CREW BAG

Lightweight but heavy duty bag at a fair price. Double stitching and reinforced seams are standard. Silent rubber zipper pulls. The awesome nylon zippers are self repairing and provide a significant level of water resistance. The removeable shoulder strap has a pebbled shoulder pad unique only to FlyBoys. This keeps the bag from slipping off of slick nylon shell flight jackets. All new gray interior which provides high visibility for finding items inside the bag in low light conditions. Sturdy the moveable/ removeable interior dividers are built. New retention sleeve for flashlights has been incorporated. Super tough PVC armoring incorporated into the bottom of the bag. Virtually waterproof along the bottom and provides additional protection and structure to the unit. Exterior Dimensions: 22" x 14" x 12" Main Compartment Dimensions: 16" x 11" x 11"

FLYBOYS HELMET BAG

420 Denier Cordura Nylon with 1/2" cloth poly-fill to cushion your helmet. Heavy duty nylon zipper - resists snags. Two interior pockets WITH VELCRO CLOSURE that fit your DTC, VTR tapes, sunglasses or water bottle without having them fall into the main compartment when you put it down! This super tight knit nylon shell is extremely water resistant and provides superior protection for YOUR expensive equipment - and the interior lining is extremely soft. It will not scratch your visor. Oversized from standard issue versions, it is superior for helmets with with NVG or HMS mounts! Two NEW pockets for smaller items. Comes with an exact color matched, adjustable shoulder strap fitted with a gripping contouring rubber shoulder pad for hands off carrying if necessary - It won't slip off of your shoulder. Inside Dimensions (FLAT): 19 1/2" Wide 20" Tall.

- Blue.....P/N 13-05571
- Black.....P/N 13-05572
- Green.....P/N 13-05573

FLYBOYS IFR/VFR KNEEBOARD

Features seven eyelets for securing checklists, plastic checklist pages or your in-flight guide - (every base has different spacing. Includes the new flexible plastic clipboard (FB1060). Eyelets also correspond to JEPPESEN approach plates and chart protectors!!

- Blue.....P/N 13-05568
- Black.....P/N 13-05569
- Green.....P/N 13-05570



FLYBOYS CHECKLIST PAGES

Heavy duty plastic FlightCrew checklist pages. Sturdy construction equals long life. Easy to use, with thickness that resists getting brittle or tearing in cold environments. Pages are top loading and are excellent for protecting your local approaches or condensed aircraft checklist.

- Sheet Size: 8" X 5".....PN 13-05627
- Bulk back (25 Pk.).....PN 13-05629



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

- Sheet Size: 8-1/2" X 5-1/2".....PN 13-05628

EXTRA TALL PAGES FOR BIG CHECKLIST

Heavy duty plastic FlightCrew checklist pages. Sturdy construction leads to a long life. Easy to use but heavy enough to not get brittle or tear in extremely cold environments. Pages are top loading and are excellent for protecting your local approaches or condensed aircraft checklist. USABLE interior dimensions: 5"x11", overall width including checklist ring holes 5 7/8"

- Sheet Size: 5" X 11".....PN 13-05630
- Bulk Pack (25 Pk.).....PN 13-05631



FLYBOYS HARD PLASTIC COVER SET FOR EXTRA PAGES

The new Cover Set for the FB2203 pages are great. They are perfect for protection of the pages as well as providing structure for these tall pages. Without these covers, they tend to sag due to their height. Buy as many pages as you need, as many cover sets as you need. Sheet Size: 5" X 11".....PN 13-05632



OVER SIZED FLIP CHART PAGES

Over sized top loading pages with three ring holes in the top for those checklists and situations that flow better than the normal "book format." Dimensions: 9.25" x 6".

- Sheet Size: 8" X 5".....PN 13-05633
- Bulk Pack (25 Pk.).....PN 13-05634



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 2.5" diameter ring. Opened, they stretch to 5.25". For most applications 4 rings is plenty for keeping your checklists or in-flight guides secure. Pack includes 10 pieces. Color is clear/opaque. P/N 13-05621

FLYBOYS PILOT LOGBOOK

Represents a comprehensive look at your military flying career. Special considerations were made for this book that no other logbook will provide. 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

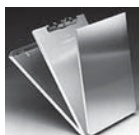


FLYBOYS REMOVE BEFORE FLIGHT KEY CHAIN

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

PS

KNEEBOARDS - HOODS



PILOTS LAP DESK

This top opening aluminum lap desk provides a solid smooth writing surface with a 3/8" bottom storage compartment for charts, computers, checklists, pens, etc. Can be used vertically or horizontally designed forms and is great for left or right handed use. Size: 9.5"x12" P/N 13-00808.....

FLY INFORMED KNEEBOARD/CALCULATOR

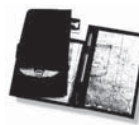
This bottom opening pilot clipboard measures 8-1/2" x 12" and features a bottom storage compartment (1-1.25" deep) for charts, computers, checklists, pens, etc. Great for vertical or horizontal forms. Heavy duty aluminum construction with solid smooth writing surface. Furnished with battery powered calculator clip for in-flight calculations. Flexible light available separately.

Clipboard/Calculator..... P/N 13-00809
Detachable Light (clear)..... P/N 13-00811
Detachable Light (red)..... P/N 13-00812

D & C AERO'S ADJUSTABLE IFR YOKE DESK (ID25, ID18, VF25)

Just fit on your control column and adjust the height for perfect placement. Now you can clip and hold your approach plates, enroute charts and sectionals right in front of you. Also, you can attach a timer to it with Velcro®. Made from aircraft quality anodized aluminum. Includes an important IFR placard with radio communications failure procedure, position report items, radar / non-radar reports and more. ID18 - Clip size .75" x 1.13" ID25 - Clip size 1" x 1.5"

ID18 P/N 13-04385
ID25 P/N 13-04386
VF-25 P/N 13-04387



ASA IFR TRI-FOLD KNEEBOARD

Strong aluminum tooled clipboard silkscreened with important IFR information fits into black 3-panel jacket. Has room for charts, books, flight computers, etc. P/N 13-05840.....

ASA VFR TRI-FOLD KNEEBOARD

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

BLOCKALLS TRAINING GLASSES



Designed by pilots for pilots. Blockalls™ resolve problems with existing view limiting devices. Weighing in at just under 1oz, it's easy to forget you are wearing them. Engineered to easily penetrate the seal of your headset eliminating the hassle of having to remove it first and

can be worn for extended periods of time without discomfort, thanks to the soft rubber nose piece and streamlined temple tips. Tailored off center viewing also keeps more of your time inside the flight deck rather than outside. Recommended by AOPA/ Flight Training.

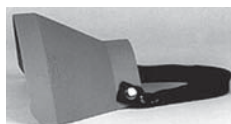
Color	Part Number	Price
Black	13-06240	.
Aluminum	13-06241	.
Pink	13-06242	.

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	.
Clear Lens Fog 1.5	13-05005	.
Clear Lens Fog 2.0	13-05006	.
Clear Lens Fog 2.5	13-05007	.
Clear Lens Fog 3.0	13-05008	.
Tint Lens MFog 1.5	13-05009	.
Tint Lens MFog 2.0	13-05010	.
Tint Lens MFog 2.5	13-05011	.
Tint Lens SFog 1.5	13-05012	.
Tint Lens SFog 2.0	13-05013	.
Tint Lens SFog 2.5	13-05014	.



JIFFYHOOD

A lightweight plastic hood that does the job inexpensively, Jiffyhood stows rolled up in a flight case, or even in your pocket. Has an adjustable elastic headband for comfortable fit. P/N 13-03457.....



FRANCIS IFR HOOD

The Francis hood restricts your vision totally to your instruments and because it's so small, it won't block any part of an instructor's vision. It's made of lightweight but shock-resistant plastic, and has a cushioned face pad for comfort, Adjustable elastic headband. P/N 3362.....



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/VFR flight transition. The high quality polycarbonate lens is impact resistant. P/N 13-404311.....

FOGGLES

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



SUPER HOOD

This Super Hood is one of the safest, most comfortable and best made instrument training hoods we've found anywhere. Ideal with eye glasses or headsets it slides in under the headset without relinquishing control of the aircraft and it can be instantly removed at any time for a safe approach or landing. Blocks outside reference but provides a full panel view to reduce vertigo. Light weight (3 oz.) and comfortable. P/N 13-30200.....

VIBAN IFR TRAINING HOOD

Pilots prefer ViBAN over other view-limiting devices because it weighs only 2 oz., making it easy to put on and take off during flight. Its eye-catching design is skillfully engineered to provide 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
With Nosepiece..... P/N 13-02023

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 checkriders. P/N 13-33799.....

ASA HOODWINK IFR TRAINING HOOD

Unique design easily and automatically springs open when removed from its pouch and packs away for storage with just a simple twist. Lightweight, yet durable enough to withstand the rigors of daily use. 4"x4" slim pouch is small enough to fit in a shirt pocket or in almost any flight bag compartment. Can be used with or without headsets. One size fits all. P/N 13-05620.....

CLOUD-EEZE™ 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
Cloud-eeze Clear Lens..... P/N 13-05015
Cloud-eeze Tint Lens..... P/N 13-05016

PS

LOG BOOKS

AERO PRODUCTS AIRCRAFT LOGS



Permanent, hard cover, logs with leatherette cover printed in gold. Pages are updated to current FAA requirements. Generous line spacing. Size: 5.75"x7.75"; 74 pgs; Green cover. Comprised of 9 sections: Aircraft Description, Installed Equipment, Major Alterations, Life Limited Parts or Overhaul Requirements, AD or Factory Bulletin Compliance Record, Altimeter and Static System Checks, Radio and Electronic Checks, Maintenance Record (FAR 43.9), Inspection Record (FAR 43.11-91.217).

AF-5 Hard Cover.....P/N 13-32385
AL-12P Soft Cover.....P/N 13-04670

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) P/N 13-20100

ASA AIRCRAFT LOG BOOKS



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

SA-1 soft cover-hunter green; 7.25"x 4"; 64 pgs
P/N 13-32375
SA-2 Hard cover-Hunter Green; 7.75"x 5-5/8"; 96 pgs.
P/N 13-32384

ASA AIRCRAFT FLIGHT LOG/ LOGBOOK (SP-FLT)



Spiral-bound and perfectly sized to fit in an aircraft glove box or chart pocket, this logbook is a quick reference to the recent history of the airplane so pilots have immediate access to the airplane's records without needing to dig through logbooks usually kept in the maintenance hangar. The Aircraft Flight Log fills a gap in aircraft records for pilots, and instantly allows them to know the status of the aircraft they are about to fly.

P/N 13-03163

PLANEVIEW AIRCRAFT FLIGHT LOGS



There are several things that make this flight log useful to so many owners and operators. Its size is 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, flight schools, charter and many other operations where there are a number of different pilots flying the aircraft. A flight school or aircraft rental company could track how their aircraft is being utilized.

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

INTERNATIONAL PILOT LOGBOOK



In addition to complying with all the FAA regulations, the international logbooks follow all ICAO and JAA recordkeeping requirements pertaining to pilots. These are the two governing bodies regulating the aviation industry outside the US.

The International Pilot Master Log is perfect for professional aviators, or those who fly frequently. Hardcover: 11"x6.5", 278 pgs. Includes green summary pages. P/N 13-02554

The International Pilot Log is a slightly smaller version of the Master Log. Hardcover: 7.75"x4", 68 pgs. P/N 13-02553

AIRCRAFT EXPENSE & USAGE JOURNAL



This product is a compact 32 page journal, measures 4 1/4" tall by 2 3/4" wide, is assembled with 2 staples, and can easily fit into aircraft glove box or shirt pocket. Weight is approximately 1/2 oz. Printing is black on cover of white 67 lb cover stock paper and on pages of white 20 lb paper. Journal covers a full one year period, contains spaces for 20 transactions per month, and includes

a monthly/yearly summary.
Expense Journal.....P/N 13-05056
Usage Journal.....P/N 13-05057

AERO PRODUCTS ENGINE LOGS



Permanent, hard cover, logs with leatherette cover printed in gold. Pages are updated to current FAA requirements. Generous line spacing. Overall dimensions: 5.75"x 7.75"; 74 pages; Red cover. Comprised of 8 sections: Engine Description, Installed Record, Life Limited Parts or Overhaul Requirements, AD or Factory Bulletin Compliance Record (propeller or rotor only), Repair and

Inspection Record (propeller or rotor only).
EF-5 Hard Cover.....P/N 13-32390
EL-13P Soft Cover.....P/N 13-03811

ASA ENGINE LOG BOOKS



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

Hard Cover (7.75" x 5-5/8") 96 pages.....P/N 13-32382
Soft Cover (7.25" x 4"). 64 pages.....P/N 13-32380

EAA LOGBOOKS



Aircraft Log.....P/N 13-16500
Engine Log.....P/N 13-02253
Propeller Log.....P/N 13-02255

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 airframe without digging through those usually kept in the maintenance hangar.

P/N 13-03163

ASA PROPELLER LOGBOOK



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

P/N 13-32370

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.

P/N 13-02315

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, school records, or

insurance applications. Plastic coil binding stays open on current page. Soft cover, 6 1/2" X 11", 192 pages. P/N 13-02313

FLIGHT SCHEDULE LOG



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

P/N 13-02308

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

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 13-01822

PS

PILOT LOG BOOKS

JEPPESEN PROFESSIONAL LOGBOOK



This professional log book from Jeppesen, measuring 6-1/2" x 11" is constructed of sturdy, easy-to-read ledger paper & includes an elegant cover with a gold sticker in which you can write your name on.

P/N 13-21728

JEPPESEN PROFESSIONAL EUROPEAN LOGBOOK



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

P/N 13-02212

JEPPESEN PILOT LOGBOOK



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

P/N 13-21732

LEATHER LOGBOOKS



Inside the cover is an inserted loose-leaf book that will allow replacement pages when required. The 6-ring binder is designed so it can be replaced if damaged. All metal parts of the book are 24K gold plated for endurance and lasting looks. The pages are made of special hand picked quality paper with follow through lines. Has memorandum pages, annual flight totals, flight summary pages, notes, endorsement pages, vinyl document savers, and vinyl picture savers. The Old World Leather Logbook has naturally embossed lettering. The Premier Leather Logbook has gold lettering. Size: 10" x 7".

Old World Logbook (brown)..... P/N 13-21955

Old World Logbook (terra)..... P/N 13-21960

Premier Logbook (brown)..... P/N 13-21755

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 (8 1/4 by 6 1/4 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

CLASSIC BLUE AERLOG® TRIP & EXPENSE RECORD



The Classic Blue Aerlog® is the original pocket sized, permanently sewn-bound book, much like a traditional Master Log book, only smaller. The Aerlog® Classic makes transcribing to another Master log book unnecessary. The Classic Blue Aerlog® has a separate "pay section" that is preferred by pilots who like to keep their pay time right next to their flying time.

P/N 13-20155

THE LITTLE MAROON AERLOG®



Designed for all pilots who record only their flying time and expenses. The Little Maroon Aerlog® has 224 loose pages that have a semi-concealed black wire binding. Water resistant vinyl cover. Has the same proportional spacing and the convenient

look and feel as the Classic Aerlog. P/N 13-04431

LIGHTER LOG



Plugs into your aircraft's lighter receptacle and tracks each flight effortlessly. Monitors the system voltage and warns of possible generator or electrical problems. Plug it in to any 12 or 24-volt system and forget it. Up to 500 flights may be recorded and stored in the internal memory for 10 years. Attach the LighterLog to any Windows 95/98/2000/Me personal computer using the included serial cable and download the flight records to the included Lighter Logbook software. Optionally attach the LighterLog to any industry compatible GPS or LORAN digital port and the LighterLog will record departure and destination information. If no GPS/LORAN is available, the Lighter Logbook software will list all airports within cruising range of the recorded flight time. Just point and click on the destination airport. Print familiar style logbooks from the computer whenever you like.

P/N 13-03299

STANDARD PILOT MASTER LOG BLACK



Hard cover, 6.5"x 11", 278 pages.

P/N 13-32392

PILOT LOGBOOK (ASA-SP-10)



This new introductory logbook is perfect for flight instructors and flight schools to start students out with an inexpensive logbook. With space for 16 separate flight entries, a ground instruction log, several solo endorsements, and a separate log for each type of aircraft flown, this logbook is great for introductory flights, first flight lessons, promotional give-aways and more.

P/N 13-05670

PROFESSIONAL PILOT LEATHER LOGBOOKS



These Professional Pilot Logbooks are the highest quality logbooks we have seen, and we are proud to make them available to Aircraft Spruce customers. They 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. Most are bound from cloth over cardboard or from patent or genuine patent leather. Both are substitutes for what we're looking for. In fact, the genuine patent leathers are simply 'paper' leather glued onto cardboard. This logbook is bound from true leather. The log pages are designed to keep traditional logging info but to provide more flexibility. It has customary Date, Aircraft, Pilots, Route & Remarks sections. Each page is 8.5"x 9"; 20 entries per page; 288 pages which allows for 2600 entries. ...Aviation -

Brown leather..... P/N 13-02139

Antique - Brown leather..... P/N 13-02141

Black leather..... P/N 13-02140

STANDARD PILOT LOG BLACK



Hard cover, 7.5" x 4", 100 pages..

P/N 13-32365

STANDARD PILOT LOG BURGUNDY



Hard cover, 8" x 4-1/2", 100 pages.

P/N 13-32360

STANDARD PILOT LOG NAVY BLUE



Hard cover, 5.5" x 8.5", 110 pages. P/N 13-32355

FLIGHT CREW LOGBOOK



Created with the input of airline pilots & instructors, these shirt-pocket size logs are designed for long lasting and comprehensive recordkeeping on the road. Options are provided for tracking flight time, currency requirements, expenses, duty times, layovers, and much more. Soft cover, 108 pgs.

P/N 13-04432

CREW FLIGHT LOG TIME & EXPENSE RECORD



With a durable high quality vinyl cover, this book is the world's most usable flight crew log. Including an upgraded calendar and unique guide to aviation info sources, Crew Flight Log meets both FAA & IRS record-keeping requirements.

P/N 13-04573

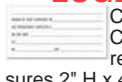
MASTER LOGBOOK CASE



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

P/N 13-02311

LOGBOOK ENDORSEMENT STICKERS



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

P/N 13-06585

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.



Color	Size	Description	PN	Price
Black	Medium	JEPP	13-04402	.
Black	Medium	ASA	13-04403	.
Black	Medium	Sporty's/Stafford	13-04404	.
Blue	Medium	JEPP	13-04405	.
Blue	Medium	ASA	13-04406	.
Blue	Medium	Sporty's/Stafford	13-04407	.
Red	Medium	JEPP	13-04408	.
Red	Medium	ASA	13-04409	.
Red	Medium	Sporty's/Stafford	13-04410	.
Black	Large	JEPP	13-04411	.
Black	Large	ASA	13-04411	.
Black	Large	Sporty's/Stafford	13-04412	.
Blue	Large	JEPP	13-04413	.
Blue	Large	ASA	13-04413	.
Blue	Large	Sporty's/Stafford	13-04414	.
Red	Large	JEPP	13-04415	.
Red	Large	ASA	13-04415	.
Red	Large	Sporty's/Stafford	13-04416	.

PS

SCOTT FLIGHT BAGS



It all started back in California in 1957 when Bob Scott ("Scotty") began making saddles. Many of his saddles are on display at the Cowboy Hall of Fame and many more are still being ridden by world champion cowboys. Then in 1967, Scotty became a pilot with Northwest Airlines. He retired from Northwest after 30 years, but Scotty still enjoys flying his Cessna 310. He made his first flight bag in 1977. The next year saw Scotty selling 2 or 3 flight bags a month to fellow pilots. Scott Leather has continually grown since those early times, but the workmanship, quality and guarantee of each bag remains the best in the business.

EMBOSS ANY SCOTT FLIGHT BAG WITH 3 INITIALS (SPECIFY).....\$9.95

JUMBO FLIGHT BAG



The newest kit bag and now the #1 seller! Designed to be carried on your roller suitcase, Scott has incorporated the BEST of both style bags into one. Sturdy straps support the entire case from the bottom. Brass combination locks and feet, 2 inside panel pockets. Grade A saddle leather, features Scott's famous 1-piece construction.

- 8"-Black P/N 13-02510.....
- 8"-Brown P/N 13-02511.....
- 7"-Black P/N 13-02512.....
- 7"-Brown..... P/N 13-02513.....

SQUARE TOP FLIGHT BAG



Made of the same fine heavy Grade A saddle leather, this case also has 1-piece body construction. All stress points are riveted. A handsome briefcase style with brass combination locks and feet, 2 inside pockets. size: 18"l x 8"w x 12"h

- 8"-Black P/N 13-02514.....
- 8"-Brown P/N 13-02515.....
- 7"-Black P/N 13-02516.....
- 7"-Brown..... P/N 13-02517.....

WHEELED SQUARE TOP FLIGHT BAG



The Square Top Bag is now available with an Inline Skate Wheel System and a Three Position Telescopic Handle. The wheel and handle systems are attached to the outside of the bag so you do not loose any capacity on the inside. The lid stays open with simple snap closure. Optional accessories can be added at additional cost. size: 18"Lx10"W x 16"H

- Black P/N 13-02522.....
- Brown..... P/N 13-02526.....

ROUND TOP FLIGHT BAG



Hand crafted from the finest Grade A saddle leather. Famous 1-piece body construction. Leather straps wrap around the entire bag for extra heavy support. All stress points are riveted. 2 inside pockets. Brass feet & hardware. 18"l x 8"w x 12"h

- 8"-Black P/N 13-02518.....
- 8"-Brown P/N 13-02519.....
- 7"-Black P/N 13-02520.....
- 7"-Brown..... P/N 13-02521.....

DELUXE PILOT CADDY



Handmade from the finest Grade A saddle leather. Keep charts, pens, pencils, computers, sunglasses, etc. right where you need them. Divided into 3 sections. 2 large sections measure 8.5"l x 4.25"w x 6.5"d inside - big enough for the largest Jeppesen binders oeven a headset. Black.

- P/N 13-02528.....

CERTIFICATE HOLDER



Handmade from the same Grade A saddle leather as Scott's flight bags. Guaranteed to last a lifetime.

- Black.....P/N 13-02530.....
- Brown.....P/N 13-02531.....

OUTSIDE POCKET



Optional 6"x9" end pocket w/ snap closure can be added to either or both ends of any kit bag. Designed to hold enroute charts, etc.

- Black.....P/N 13-02524.....
- Brown.....P/N 13-02525.....

LEATHER HEADSET CASE



2-sided and center divided pouch helps organize your bag. Headsets on one side, pencils and glasses on the other. Keep them separated & protected. Approximate size: 13"L x 6.5"T. 2 Zippers. Available in black only.

- P/N 13-02529.....

LEATHER AIRWAY MANUALS



Handmade from the same Grade A saddle leather as Scott's flight bags. Guaranteed to last a lifetime. High quality 4 ring push tab mechanism. Handy pocket on inside front cover. Rings measure 1.5" dia. You can add Quick Tabs, see below.

- 1" ring-Black 13-02533.....
- 2" ring-Black 13-02535.....
- 1" ring-Brown..... 13-02534.....
- 2" ring-Brown..... 13-02536.....

INSIDE POUCH



Optional 5" X 12" zippered pouch attaches with velcro to top inside flap. Large enough for sunglasses, mini maglite, screwdriver, gum, etc. Stitched on the outside of pouch are 2 pen loops plus a larger highlighter loop. Black.

- P/N 13-02523.....

QUICK TABS



Before a trip, insert 1 of 5 different colored tabs to mark airports most used. Eliminates time spent looking for pages. Package of 5.

- P/N 13-02532.....

NOS BINDERS



Handmade from the same Grade A saddle leather as Scott's flight bags. Guaranteed to last a lifetime. High Quality 7 ring push tab mechanism. Available in 2" ring size and hard to find 1" ring size. Handy pockets on inside of both covers. Personalized with your name & airline at no extra charge.

- Black.....P/N 13-02537.....
- Brown.....P/N 13-02538.....

PS

TRAVEL BAGS - FLIGHT BAGS

SCHEYDEN TRAVEL BAGS

The bags can be custom embroidered and are available in Navy, Red, Hunter Green, Khaki, Grey, Black and Metallic Mocha for a additional fee.

Add the appropriate dash number after the part number for the color of your choice: Navy (-1), Red (-2), Hunter Green (-3), Khaki (-4), Grey, (-5), Black (-6), Mocha (-7)



PIGGYBACK2

The most functional carry-on bag ever made. One section converts to a day/backpack and features a patented high-impact wheel base and telescoping retractable handle. Slip the Club Glove Shoulder Bag over the handle for the ultimate airline carry-on set. Weight: 10lbs.

P/N 13-04278

SHOULDER BAG

Designed with access on both sides, this Shoulder Bag maintains the strength and features of the Club Glove line. Carries a laptop, documents, or use as an overnight bag. Included is a dual shoulder strap (patents pending) that distributes the weight evenly and comfortably. (makes a great flight bag) Weight: 2.2lbs

P/N 13-04280

ENSEMBLE

The Piggy Back II, Shoulder Bag and Travel Kit! Weight: 12.7lbs

P/N 13-04279

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. 12"H x 7-1/4"W x 14-1/2" L

P/N 13-04255

MEDIUM DELUXE FLIGHT BAG

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

P/N 13-04256



DELUXE HEADSET BAG



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

P/N 13-01416

TOP GRAIN LEATHER FLIGHT BAG



- Dimension: 18" length x 10" wide x 16" height
- Designed to carry six binders
- Padded compartment for lap top computers or GPS
- 3 position telescopic handles
- 3 brass combination locks

P/N 13-04229

BISON MOUNTAIN RV FLIGHT BAG



A practical solution to organizing the cargo area of your RV-6, RV-7 or RV-9. Also makes a great overnight bag! Our 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. This keeps the CG as far forward as possible and maximizes remaining cargo space. The RV Flight Bag is 18 inches high and 12.5 inches wide. It has a very large main cargo area easily accessible with a large zipper flap. There are two side pockets, one 10" x 4" and a 7" x 5.5" map pocket. The rear side of the bag has a pencil / flashlight/fuel tester pocket, a 10 inch x 7 inch headset pocket, and a 6" x 5 1/4" pocket for small tools. The material and zippers are heavy duty and will last a long time. The bag is made of durable Curdura and is resistant to liquids. 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.

Description	Color	Part No.	Price
RV FLIGHT BAG	BLACK CURDURA	13-05321	.
RV FLIGHT BAG	GREY CURDURA	13-05323	.
RV FLIGHT BAG	BLACK LEATHER	13-05324	.
RV FLIGHT BAG	GREY LEATHER	13-05326	.
RV FLIGHT BAG	BROWN LEATHER	13-05328	.

BISON MOUNTAIN ULTIMATE FLIGHT BAG



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

Color	Part No.	Price	Color	Part No.	Price
Black Curdura	13-05329	.	Grey Leather	13-05334	.
Grey Curdura	13-05331	.	Brown Leather	13-05336	.
Black Leather	13-05333	.			

PS

SKY HIGH & NORAL FLIGHT BAGS

Sky High Gear Flight Bag Systems are integrated with cutting edge STYLE for today's pilots. Each bag is loaded with patent pending design work to maximize packing UTILITY for all activities. Designed by Pilots for Pilots.



APOLLO FLIGHT ATTACHE

The Apollo messenger bag was designed for the business pilot who does not want to carry multiple bags as they visit on and off field customers. Their integrated file dividers will hold file folders, note pads, brochures, catalogs, forms, and more. They have also integrated our CoPilot feature which allows the document and map section of the bag to lay open on the seat next to you for easy access to your important nav charts, approach plates, markers, flashlight, batteries, etc.

P/N 13-03279

DISCOVERY DUFFLE BAG

The Discovery flight duffel is a fully padded duffel designed to protect all of your important gear. The Discovery is designed with full sized compartment flaps to allow easy access to all of your gear, before, during and after flight. The spacious end compartments and innovative closure flaps make putting away or getting out your ANR headsets and other gear a breeze. The center compartment has a double zipper opening with a padded divider to segment the compartment for easy access and storage.

P/N 13-03280

FREEDOM VII DAY DUFFLE BAG

Freedom VII is the flight bag for those who want to pack light for a short day flight or a CFI who needs just the minimum requirements for a lesson. This flight bag comes with their patent pending CoPilot feature. This allows you to organize 4 sectionals, extra batteries and other miscellaneous equipment. The main compartment has plenty of room for a headset or two 2" Jepp Chart binders with a pocket on the back for your kneeboard, A/FD or other materials. If you need a small flight bag this is the bag for you.



Blue..... P/N 13-03277.....
Green..... P/N 13-03350.....
Red..... P/N 13-03351.....



SKY HIGH GEMINI

The Gemini flight bag is a fully padded duffel designed to protect the pilot's important gear. It is made with full sized compartment flaps, allowing easy organization of flight materials and access during flight - there is even a special stow-a-way pocket designed to hold most kneeboards. Everything is right where it should be - especially important during IFR flights. The center compartment has a double zipper opening with a padded quad-modular divider to segment the compartment for custom organization and easy access.

P/N 13-04254.....

VOYAGER FLIGHT ATTACHE

The Voyager Attaché flight bag gives you the ability and convenience of being able to carry charts, sectionals and all the necessities without carrying around a larger flight bag. The CoPilot feature allows you to organize up to 6 sectionals and essential equipment. The main compartment can hold a single headset, Jepp chart binders and/or Air Charts. A kneeboard pocket is on the back for added convenience. The Voyager is made of ballistic nylon for extra durability.

Blue..... P/N 13-03278

Red..... P/N 13-03348

EXPLORER PRE FLIGHT POUCH

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

P/N 13-03276.....



NORAL AIRCRAFT DOCUMENT HOLDER

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



NORAL SINGLE HEADSET BAG

This bag is ideal for the pilot that wants to carry a passenger headset or his own, separate from his flying bag. It is constructed with genuine DuPont® Cordura® 1000 Deniers, water resistant, fully padded with a 1/4" foam and backed with a layer of tricot. Features separate zippered compartment along with an extra side pocket.

Red..... P/N 13-00281

Navy Blue... P/N 13-00282

Grey..... P/N 13-00286

Black..... P/N 13-00288

NORAL STUDENT PILOT BAG



The Student Pilot Bag has plenty of room for everything a student pilot needs to carry and more at a price unmatched by any other brand. It has 2 extra large zippered headset pouches plus another zippered section to store pens, flashlight, fuel tester, E6B computer and more! Access to the main compartment is through a double zipper flap with a pull cord. In addition to the carrying handles, a detachable padded shoulder strap is included.

Size: 11"H x 10.5"W x 12"L.

Navy Blue P/N 13-00291.....

Grey..... P/N 13-00294.....

Black..... P/N 13-00297.....

NORAL PRIVATE PILOT BAG



Fits all the goodies and gadgets a pilot needs and wants to carry. It has two extra large zippered headset pouches plus another zippered section to store pens, flashlight, fuel tester, E6B computer and more! Access to the main compartment is through a double zipper flap with a pull cord. In addition to the carrying handles, a detachable padded

shoulder strap is included. Size: 11"H x 10.5"W x 15.5"L.

Navy Blue..... P/N 13-00299

Black..... P/N 13-00313

NORAL MACH 1 FLIGHT BAG



The Mach 1 flight bag is compact yet roomy. The bag features a wide 5" double zippered access flap with a pen and pencil holder. There are two end compartments 6"X10". On the front, a zippered 11"X 6" compartment. On the back is a 4"X 8"X 8" headset compartment which will accommodate the largest of headsets. The Mach 1 is made of US Made Nylon with 1/4" Foam Padded, 1000 Denier and is water resistant. It comes equipped with a GPS/Transceiver Pouch that can be worn on your belt. Also included is a shoulder strap and carry handle. Dimensions: 15"LX11"WX10 1/2"H

Black.... P/N 13-04088.....

Navy Blue..... P/N 13-04091.....

Grey..... P/N 13-04092.....

Red..... P/N 13-04093.....

NORAL ADVANCED PILOT BAG



The Advanced Pilot Bag has extra large access (5-3/4" wide) and is very comfortable! Featuring two huge headset bags, one on each end, it can hold more than just a headset. It has a detachable shoulder strap and carrying handles and are padded for extra comfort. It also has a zippered compartment for pens, flashlight, fuel tester and more! The main compartment's loose semi-rigid divider is made of a very strong, but extremely light weight hollow polypropylene. Covered with black fabric, it can be adjusted to your needs. It also contains a GPS or transceiver pouch to help protect equipment from damage due to accidental banging on hard surfaces while also keeping it out of sight to protect from theft. Size: 11"H x 10.5"W x 18.5"L

Black..... P/N 13-00172

SMART CHART ORGANIZER



Made of US Made Nylon 1000 Denier with 1/4" Foam Padded. And it features 6 card holders in the bottom and a compartment for chart. It secures the document by a Zipper closer. Available in Black, Navy Blue, Red & Gray. Dimensions 6"W X 14"L. The 6" Wide will be 12" in open position. Embroidery is available for \$11.95 (16 Char. Max)

Description	Part No.	Price
Noral Smart Chart Organizer Black	13-04456-B	.
Noral Smart Chart Organizer Navy	13-04456-N	.
Noral Smart Chart Organizer Blue	13-04456-BLU	.
Noral Smart Chart Organizer Red	13-04456-R	.
Noral Smart Chart Organizer Grey	13-04456-G	.
Noral Smart Chart Organizer Camo	13-04456-C	.

PS

FLIGHT BAGS

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.

P/N 13-02336

ASA AVIATOR FLIGHT BAGS



P/N 13-04057
Pilot Flight Bag
11" tall x 10" wide x 8" deep

P/N 13-04058
Trip Bag
11" tall x 16" wide x 8.5" deep

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
Trip Flight Bag P/N 13-04058

ASA TECH FLIGHT BAG



ASA pilot gear bags are well known for their supreme functionality, rugged construction and professional style. The Tech Bag is 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. It's a mobile

office/flight planning room in a bag! Count on your ASA Tech Bag to bring you many years of utility and pride.

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.....

ASA CRM FLIGHT BAG



This "copilot in a bag" not only keeps your gear organized on the go, but in the cockpit as well. Its functional design serves double duty as a great storage apparatus and ultimate cockpit organizer. Numerous compartments and pockets keep everything secure and easily accessible in flight. There are even "hideaway" stretch mesh side pockets for water bottles. It's large enough to hold everything you need yet compact enough to easily bring along on shorter excursions. Count on your ASA CRM Bag to bring

you many years of utility and pride.

Dimensions: 14" wide x 12 1/2" tall x 9" deep

- * Made of 600D polyester with PVC backing for extreme durability
- * Non-slip removable shoulder strap
- * Padded carry handle
- * Rugged zippers
- * Interior organizer with multiple pockets
- * Large interior mesh pocket with toggle closure
- * Side zippered pocket with stretch mesh for water bottle

P/N 13-06258.....

AEROCOAST FLIGHT CASES



PRO I FLIGHT CASE - This professional grade flight case includes many added features not present on today's flight cases. Features such as multi access folders, flashlight holder, multiple pockets, business card sleeve, and a protective base plate.

- * Waterproof ballistic material
- * Metal piano hinge for added strength
- * Protective plastic plate

- * Multi access folder compartments
- * Multiple storage compartments
- * Flashlight holder
- * Leather wrapped handle
- * Side pocket compartment
- * Name card holder with clear cover
- * Embroidered gold logo
- * Added Velcro to both inside flaps
- * Outside dimensions 18 x 13 x 8 inches.

P/N 13-06041.....



PRO II FLIGHT CASE - The Pro II flight case offers the same features as the Pro I. However the primary differences you will notice with the Pro II is the sturdy Saddle style handle belts and the absence of the front pocket access.

- * Sturdy saddle style handle wrap
- * Waterproof ballistic material
- * Metal piano hinge for added strength

- * Protective plastic plate
- * Inside access folder compartments
- * Multiple storage compartments
- * Flashlight holder
- * Leather wrapped handle
- * Side pocket compartment
- * Name card holder with clear cover
- * Embroidered gold logo
- * Added Velcro to both inside flaps
- * Outside dimensions 18 x 13 x 8 inches.

P/N 13-06042.....



PRO III FLIGHT CASE - This professional grade flight case includes many added features not present on today's flight cases. The visible difference between the Pro I and the Pro III is the absence of the front compartment lock. Features such as:

- * Waterproof ballistic material
- * Matched Stitching for added strength
- * Metal piano hinge for added strength

- * Protective plastic plate
- * Added Velcro on both inside flaps
- * Riveted pressure points
- * Multi access folder compartments
- * Multiple storage compartments
- * Flashlight and pen holster
- * Leather wrapped handle
- * Side pocket compartment
- * Name card holder with clear cover
- * Embroidered gold logo
- * Outside dimensions
- * 8 x 13 x 8 inches

P/N 13-06105.....



ASA CARGO FLIGHT BAG

ASA pilot gear bags are well known for their supreme functionality, rugged construction and professional style. The Cargo Bag is a true hauler.

ASA pilot gear bags are well known for their supreme functionality, rugged construction and professional style. The Cargo Bag is a true hauler. Its widemouth opening provides unrestricted access to a large interior suited to carrying just about anything and everything you need, and then some. The widemouth opening has a built-in metal rod frame for strength and rigidity where it's needed most. Includes a padded headset pocket accompanied by an abundance of compartments and an adjustable hook and loop divider which allows for customization of the main inside pocket. Count on your ASA Cargo Bag to bring you many years of utility and pride.

Dimensions: 16 1/2" wide x 8" tall x 12" deep

- * Made of 600D polyester with PVC backing for extreme durability
- * Widemouth opening for unrestricted interior access
- * Non-slip removable shoulder strap
- * Padded carry handle
- * Rugged zippers
- * Exterior ID pocket
- * Padded interior divider panels with many compartments
- * Padded exterior pockets and side pocket for smaller items

P/N 13-06259.....



JEPPESEN CASES & FLIGHT BAGS



AIRWAY MANUAL CARRYING BAG

Developed at the request of corporate flight departments. Carries up to eight 2" binders for these extended trips. High quality cordura fabric. (Size: 24" x 11" x 9") P/N 13-621200



FLIGHT CASES

Top Grain leather flight cases rugged Samsonite brown or black, top-grain flight cases offer the ultimate in convenience and utility. Matched stitching and leather covered handle enhance the looks and carrying comfort. Includes removable binder dividers. Available in 3 sizes:

- FC-106 holds 6 binders (12"x9"x18")
Black 13-01198
- FC-104 Holds 4 Binders (12"x8"x18")
Black 13-00116

BRIGHTLINE PILOT FLIGHT BAG



Organized Two main compartments and 25 specialized pockets to hold each of your items perfectly. Optimized Better storage than any big bag...in a small bag. It's only 12" X 10" X 9". Innovative Many unique features, including swappable handle and shoulder strap, color coded zippers, interior key clip, and much more. Features * Heavy-Duty Nylon construction. * Compact size (12" x 10" x 9"). * 25 specialized pockets. * Color coded zipper pulls. * Proper height for navigation charts. * SwitchSnap™ Handle for superb balance. * External chart pocket. * Isolated storage for fuel tester. * Holds two headsets with ease. P/N 13-06040.....

ets. * Zips apart into two separate bags. * Color coded zipper pulls. * Proper height for navigation charts. * SwitchSnap™ Handle for superb balance. * External chart pocket. * Isolated storage for fuel tester. * Holds two headsets with ease. P/N 13-06040.....

NAV-DATA FLIGHT BAG



Finally, an affordable flight bag with compartments for all your flight gear and then some. Made of durable 600D nylon canvas for years of use. Overall dimensions: * 20"x10"x13". Low profile prevents tipping * Two headset pockets * Front expandable VHF and electronics pockets * Large main compartment for kneeboard, charts, facility directory, etc * Adjustable shoulder strap P/N 13-06090.....

SINGLE HEADSET BAG



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

FLIGHT ATTACHE



Holds all the materials a student pilot needs. 15" long x 11" deep P/N 13-02335

JEPPESEN STYLE FLIGHT BAG



Student/Book Bag: Same great bag Jeppesen uses for its training kits. The bag is made from heavy-duty 6000 denier Cordura for superior strength and with a PVC coating on one side for added water resistance. Includes outside pockets, removeable shoulder strap, reinforced bottom. Size 10" x 5.5" x 17" P/N 13-06280.....

THE CAPTAIN FLIGHT BAG



The most versatile bag available. Headset bags can be removed and attached together to form a dual headset bag. Removable transceiver/GPS bag can be worn on your belt. 4-way interior custom divider can hold four Jeppesen binders. One large multi-use exterior zippered pocket. Two zippered storage pockets for glasses, charts, pilot operating handbooks and other miscellaneous accessories. Wide cushioned shoulder strap. (12" x 22-1/2" x 8")

- Black P/N 13-621214
- Blue P/N 13-00994

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.....

THE NAVIGATOR BAG



The ultimate choice for convenience and flexibility. Each Navigator Bag includes all of the features and benefits of the Captain Bag, except the removable transceiver/GPS bag and the two zippered exterior storage pockets. Instead it includes two exterior storage pockets for easy access to Section Charts. 12" x 22 1/2" x 8" Black P/N 13-00995

THE STUDENT PILOT



A great first bag for the student pilot. Numerous outside pockets organize charts, flight computer, fuel tester, plotter, pens and pencils, flashlight and much more. Comfortable, wide removable shoulder strap; double zipper opening for easy access. Reinforced bottom. Constructed with durable PVC backed 600 denier poly. 10"x 5.5"x17" (black only) P/N 13-00997.....

THE PROTECTOR HEADSET BAGS



Each Jeppesen Headset Bag is fully padded and made from Dupont's® heavy duty 600D-Denier Cordura® polymer with a PVC coating on one side for added water resistance, designed for superior strength, abrasion resistance, and durability. Each includes a leather snap-on handle grip. Size: 12"H x 8"W x 2.75"D

- Single Headset Bag P/N 13-00999.....
- Dual Headset Bag P/N 13-01004

TUFF NUFF HEADSET CASE



A rugged built case with "clamshell" design for easy access. Your headset is well protected by a soft foam lining and tough Cordura outer shell. Fits all popular makes and models, with extra room for small accessories. Measures 9-1/2" x 10-1/2" x 3", and weighs 7 oz. P/N 4002

PS

CHART CLIPS - TOOL BAGS



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

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
- 2 Small Clips per Package P/N 13-06408
- 1 Large Clip per Package P/N 13-06409

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

YOKE CHART CLIP



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

IFR CHART CLIP



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

- 1.5" Post Standard Clamp P/N 8131
- 1.5" Post Wide Clamp P/N 8487
- 2" Post Standard Clamp P/N 8690
- 2" Post Wide Clamp P/N 8822
- 3" Post Standard Clamp P/N 8674
- 3" Post Wide Clamp P/N 8915



HOLD-IT CHART HOLDER

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



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



AVIATOR'S NYLON HELMET BAG

U.S. Military issue. Size: 19"x 20". Color: Sage green P/N 13-03476



NELSON FLIGHT SEAT POUCH

- End cockpit clutter • Made of durable Cordura • Stores flashlight, fuel tester, flight guides, approach plates, charts, plotter, E6-B, sunglasses and more.
- Available in black, AF blue, red, gray & olive drab
- Black P/N 13-31871
- Blue P/N 13-03005
- Gray P/N 13-31872
- Olive drab P/N 13-03006
- Red P/N 13-31870

NELSON AIRCRAFT DOCUMENT CASE

- Made of Cordura
- Two compartments
- Available in blue, gray, olive drab, orange & red.

Orange.. P/N 13-03013 Blue P/N 13-02932
Gray..... P/N 13-02933 Red P/N 13-02934



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 12-00329

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



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

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 O.D. Green. Large: 5" x 5" x 16" Bag P/N 13-02600

TOOL WRAP



These tool wraps allow the builder or pilot to carry an assortment of small hand tools in a convenient roll-up tool bag. Available in small 9-pocket or large 15-pocket size. Color is normally dark blue or off-white depending on available material, but colors can vary. Small Tool Wrap P/N 13-01746 Large Tool Wrap P/N 13-01747



UNIVERSAL BEVERAGE HOLDER

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

- Oval Face P/N 13-03792
- Square Face P/N 13-03793



SINGLE HEADSET BAG

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



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 13-20065



LICENSE HOLDERS

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

- 4-7/8" X 6-7/8" P/N 13-07900
- 7-1/2" X 8" P/N 13-17904
- 5" X 7" P/N 13-17905
- 5" X 14" Double Pocket P/N 13-17906



PILOT SUPPLIES



NELSON FIRST AID KITS

International Orange Case. Velcro hold-downs
10 FA Unit. Kit Contents:
• Blistex Burn Cream
• 1"x3" adhesive bandages
• First Aid Instruction Book
• 1/2" adhesive tape (2 rls)
• 24"x72" gauze compress
• Scissors
• Thermometer & compass
• Wire Splints
• 4" Bandage Compress
• PVP iodine wipes
• 2 Triangular Bandages
• Ammonia inhalants
First Aid Kit #1P/N 13-02944
First Aid Kit #2P/N 13-02945

CONVENIENCE BAG

Disposable urine & vomit bag. • Wide mouth. •
No spill, cleanup, or odors. • One-hand use
P/N13-02821



P/N 13-02949



P/N 13-02950



P/N 13-02836

KEY CHAINS

Choice of:
"Remove Before Flight" ...P/N 13-02836
"I Love Flying"P/N 13-02949
"I'd Rather Be Flying"P/N 13-02950

REMOVE BEFORE FLIGHT KEYCHAIN

Red, "REMOVE BEFORE FLIGHT" is 11-
1/2" in length. Great for your keys, ID, or
badge. The "REMOVE BEFORE FLIGHT"
is silk screened in white on red nylon. P/N 13-03822

AIRCRAFT FOR SALE BANNERS

Designed specifically for aircraft use, these banners
slip right over your prop blades, moving in the breeze to
attract attention-but will not rub against painted sur-
faces. 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.....

PROPELLER MOUNTED BANNERS

Two 28" x 8", white printing on red reinforced vinyl with
business card pouch. Yellow, blue and white pennants,
slides over prop, fastens with velcro.
For SaleP/N 13-06402
For Rent.....P/N 13-06635

FOR SALE PROP BANNER

Consists of three pieces. Each prop banner is 11" high
X 22" long when mounted. Made of RED vinylized
polyester with BOLD WHITE lettering. Unlike prop
banners that are a sleeve which must be slipped over
the prop blade only, these banners are split at the bottom and are held
together with velcro. This allows the banner to be opened up and then
wrapped around virtually ANY structural member of the aircraft
P/N 13-06014

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

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 P/N 13-04392
SMALL P/N 13-04393

FLYING/SAFETY GLASSES

• Meets or exceeds ANSI requirements • Provides
99.9% protection against harmful UV radiation •
High impact scratch resistant polycarbonate lens
• Adjustable temples for greater fit & comfort
• Replacement lenses
GrayP/N 13-02823
AmberP/N 13-02825

NELSON AILER-LOCKS



• 2 Sizes
• 13" RBF streamer
• Locks flaps, ailerons, elevators, or rudder
Ailer-Lock standard (4.25")

Ailer-Lock Large (10")P/N 13-02829
P/N 13-22705

NELSON "CESSNA" STYLE TAIL SKID



This easy-to-install tail (3 minutes) skid is
designed to save the tail feathers on most
single engine Cessnas. Made from 4130 air-
craft steel, this tail skid fits Cessna 150, 152,
172, 177, and 182.

P/N 13-17010

COCKPIT EMERGENCY LIGHT



• Uses super power LED • 20,000 hrs "always on"
• 200 hrs low power or strobe • 20 hrs high beam
• Uses standard 9V battery • Available in 3 LED
beam colors

Green.....P/N 13-02751
Red.....P/N 13-02928
White.....P/N 13-02929

APPROACH PLATE HOLDER



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

"REMOVE BEFORE FLIGHT" PITOT COVERS



Universal cover.....P/N 13-04396
Piper blade coverP/N 13-02946
3/4 pitot cover.....P/N 13-04395
5/8 pitot cover.....P/N 13-04394
Sm RBF streamerP/N 13-02818
Lrg RBF streamer.....P/N 13-02819

Nelson RBF StreamerP/N 13-04397

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

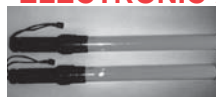
REMOVE BEFORE FLIGHT STREAMER



Red "REMOVE BEFORE FLIGHT" Streamer
with white lettering. Measures 3" wide and
30" long.

P/N 13-06238

ELECTRONIC AIRCRAFT PARKING WANDS



• Fluorescent coated diffuser enhances red
light output • Used by US Air force • Up to 400
hours operation • 17" long • Uses (2) D batter-
ies (not incl.) • Waterproof

P/N 13-08959

EMERGENCY STROBE



• Waterproof • USCG approved • Operates up to 60 hours •
Uses D battery • Red lens available
StrobeP/N 13-02811
Mounting Tri-pod.....P/N 13-14016

STROBE / FLASHLIGHT



• 1 mile visibility • Waterproof to 100m • Flashes more
than 45 times per min. for up to 10 hours • Powered
by (2) AA batteries (not incl.) • Xenon bulb • Red lens
included for flashlight end • International orange case •
ABS plastic body. P/N 13-02809

SEAT FOAM - FLIGHT SEATS

BACKSAVER FOAM

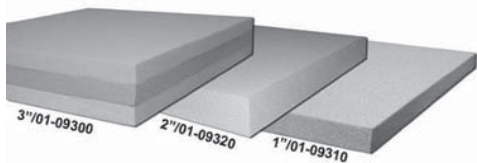


Backsaver foam is temperature sensitive, softening when it comes in contact with a warm surface; thus, in a seat cushion, the foam softens and conforms to the persons body. This provides even pressure distribution and unobstructed blood circulation, significantly reducing discomfort, even over long periods. In addition, Backsaver foam has excellent energy absorption properties, which have made it excellent for use in the U. S. space shuttle program and in military aircraft and helicopters. Pilots find that Backsaver cushions reduce their discomfort and fatigue, even on missions of 8 hours or more. Aircraft Spruce now makes Backsaver foam available to

the homebuilt and general aviation market.

BACKSAVER FOAM 16" X 18"..... P/N 01-09325
 BACKSAVER 36" X 80" FOAM..... P/N 01-09330

CONFOR FOAM SEAT CUSHION



Temperfoam is the conforming foam cushion that was developed for the "Astronaut's Couch" back in the Apollo space program. Seat foam has the capability of

absorbing a tremendous amount of impact shock compared to common polyfoam and it is flame resistant. It is an excellent product that will give your seats enduring comfort that you never thought possible. It is not a soft seat, but it adapts to you for pressure- point-free comfort that is really incredible. The best universal cushion for aircraft use is a 3" T/38/T41/T47 laminate. Temperfoam is not currently FAA approved for certificated aircraft but is excellent for homebuilts. Some special sizes in 1", 2" or 3" thicknesses are available on special request.

1" x 16" x 18"P/N 01-09310 ea.
 2" x 16" x 18"P/N 01-09320 ea.
 3" x 16" x 18"P/N 01-09300 ea.

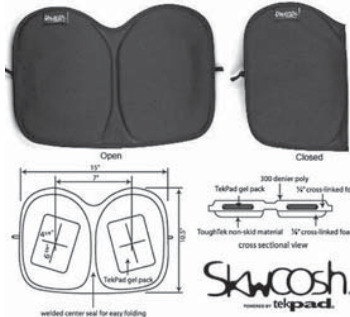
INFLATABLE LUMBAR SUPPORT



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 palmsize pump and a release valve control the firmness of the lumbar support. The In-Flight Back Support is made of a heavy duty self-extinguishing neoprene rubber, specially designed to pass FAR 23.853 flame-test requirements.

One inflatable lumbar support
 P/N 13-01501.....
 Two Inflatable lumbar supports
 P/N 13-01821.....

SKWOOSH PILOT SEAT



Fly with SKWOOSH™ and say goodbye to numbness in your legs and rear. TekPad® gel technology delivers pressure relief for long flight comfort. The compact SKWOOSH™ Pilots's seat is designed specifically for flight personnel. It folds to fit in a chart case, carry on or just hang it from a roll-on. It has a durable 300 denier top fabric for comfort and convenient attached cord loops for hanging. The non-skid bottom makes SKWOOSH™ stay put, insuring no movement during

use, while it's low profile allows you to maintain normal seat position. So when you have to sit for a long time, in the cockpit or passenger cabin, count on SKWOOSH™ for comfort.

Specifications: • Model# P5544 • Weight: 8 oz. • Open Dimensions: 15" x 10½" x ½" • Folded Dimensions: 7½" x 10½" x 1" • Color: Black • Non-Skid bottom • Convenient cord loops for hanging • Made in USA - Guaranteed Performance and Guaranteed Workmanship.

P/N 13-05827.....

NELSON BOOSTER SEAT



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 Nelson Seats: Back: Width - 16" Height - 17" Seat: Width - 15" Depth - 12"

Description	Part No.	Price
Blue 2" Booster seat w/ 1-1/2" back	13-02916	.
Red 2" Booster seat w/ 1-1/2" back	13-02917	.
Blue 3" Booster seat w/ 1-1/2" back	13-02918	.
Red 3" Booster seat w/ 1-1/2" back	13-02919	.
Blue 3" Booster seat w/ 3" back	13-02920	.
Red 3" Booster seat w/ 3" back	13-02922	.
Child's Blue 3" Booster cushion	13-02923	.
Child's Red 3" Booster cushion	13-02924	.
Child's Blue 4" Booster cushion	13-02925	.
Child's Red 4" Booster cushion	13-31861	.
Blue - 4" Seat x 3" back	13-31845	.
Red - 4" Seat x 3" back	13-31850	.
Blue - 4" Seat x 1-1/2" back	13-31855	.
Red - 4" x 1-1/2" back	13-31860	.
Gray - 3" Seat x 3" back	5204G	.
Red - 2" Seat x 4" back	13-02863	.
Red - 3" Seat x 4" back	13-02864	.
Green - 4" Seat x 1-1/2" back	13-02866	.
Blue - 4" Seat x 1" back	13-02867	.
Green - 2" Seat x 1-1/2" back	13-02868	.
Green - 3" Seat x 1" back	13-02869	.
Blue - 3" Seat x 1" back	13-02870	.
Green - 3" Seat	13-02871	.

NORAL SEATS



This cushion is made with the finest materials available. It features a high back with a Lumbar Support for added comfort. The foam inside meets FAA FAR regarding fire materials. A strap is present for easy carrying and securing the cushion to the back of the seat when installed. Available in 2 sizes marked Type 'A' & Type 'B'. Label 'A' fits Cessnas 172/182/172 Cutlas /210 and other larger seats.

Label 'B' fits Cessnas 150/152, Piper, Archer, Warrior, Cherokee, and similar seats.

Available only in Black, Navy Blue, & Smoke Grey.

Color	Part No.	Price	Color	Part No.	Price
2" Seat Cushion - Type B			2" Seat Cushion - Type A		
Black	13-00323	.	Black	13-00327	.
Blue	13-00324	.	Blue	13-00328	.
Grey	13-00326	.	Grey	13-00329	.
3" Seat Cushion - Type B			3" Seat Cushion - Type A		
Black	13-00331	.	Black	13-00334	.
Blue	13-00332	.	Blue	13-00336	.
Grey	13-00333	.	Grey	13-00337	.
4" Seat Cushion - Type B			4" Seat Cushion - Type A		
Black	13-00338	.	Black	13-00342	.
Blue	13-00339	.	Blue	13-00343	.
Grey	13-00341	.	Grey	13-00344	.

Color	Part No.	Price	Color	Part No.	Price
2" Seat Cushion only			3" Seat Cushion only		
Black	13-00346	.	Black	13-00221	.
Blue	13-00347	.	Blue	13-00222	.
Grey	13-00348	.	Grey	13-00223	.
4" Seat Cushion only					
Black	13-00224	.			
Blue	13-00226	.			
Grey	13-00227	.			

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
 * Pivots down to make it easier to get in behind the seat on a tandem

P/N 13-05554.....

PS

SEAT COVERS - AIRCRAFT SPRUCE APPAREL



AEROSHEEP AUSTRALIAN SHEEPSKIN SEAT COVERS

Aerosheep seat covers are manufactured from genuine Australian Merino sheepskins. Each cover is hand tailored to fit the particular aircraft seat and comes with a 5 yr warranty. The dense 1" fleece will not shed on clothing, and the snug fit allows for no slippage. Aerosheep seat covers are cool in the summer and warm in the winter, and protect seats from sun and wear. Fully lined, they are attractive, durable, and very comfortable. Easy to install without

removing the seat. Available in tan, pearl, regal, silver, bone, smoke, navy, and burgundy; free color swatches available on request. Furnished with FAA form 8110-3 (flammability compliance certification) and shipped Fed-Ex 3-day service from the factory within one week (Add \$15.00 for shipping). To order, specify aircraft year, make, model, and color choice. For reupholstered or non-standard seats, request special order form to measure seats.

P/N 13-01005 /pr.

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

P/N 13-06584



AEROSHEEP SEAT CUSHION COVER ONLY

The new sheepskin product designed to appeal to pilots who may not be ready to invest in the fully fitted sheepskin seat covers. It is a sheepskin pad designed to fit on the seat cushion surface only. Available in tan, pearl, regal, silver, bone, smoke, navy, and burgundy; free color swatches available on request.

P/N 13-05604



WARMSEATS SEATS HEATERS

This do-it-yourself seat heater kit features dual zone heating (back and seat) with a built-in thermostat and high/low settings. Made by an OEM auto supplier, the kit uses carbon fiber (not wire) to provide quick and even flow heat. Universal fit and easy installation. Instructions included. Not FAA approved. P/N 13-03195..... ea



SPRUCE POLO SHIRT

SPRUCE POLO SHIRT - These are the same high quality polo shirts worn by the Aircraft Spruce Staff at Oshkosh, Sun 'N Fun and other airshows. Made from Dry-Excel™ close-hole Micromesh, polyester knit, with a fine gauge rib-trim collar. Three button front, open hem sleeves, and split side welts make these polos great for everyone. These polos feature the Aircraft Spruce logo on the left chest. Machine washable.

BLUE RIBBON SHEEPSKIN SEAT COVERS: NATURES OWN THERMOSTAT



The magic of 100% genuine sheepskin is quite simply that it will keep you cool in summer and warm in winter. No other natural or man-made fiber possesses the qualities of sheepskin. Whatever the temperature in your cockpit, sheepskin covers remain almost the identical temperature. Additionally, each hollow fiber absorbs up to 30% of its own weight in moisture. It keeps you dry, yet never feels wet itself. You avoid the heat and clamminess of vinyl, or even leather, because there's free flow of air between you and seat. Every cover is hand-made by master craftsmen from the finest chrome-tanned pelts, in colors to match or coordinate with any interior. Sold in pairs only, in 11 colors (request color samples when ordering). FAA Approved.

Available for the following planes: Beechcraft: Baron B-55, E-55, B-58, Bonanza V-35 (A or B), A-33, A-36, F-33A, A36TC. Cessna: 150, 152, 172, 177, 180, 182, 185, 210, 310, 340, 402, 414, 421. Aero Commander: 500, 600, 900, Piper: Archer, Cherokee, Warrior Tomahawk.

Specify year, make model and color choice when ordering. Car seat covers also available in same colors. Call for a price.

Blue Ribbon Sheepskin Seat Covers (pair) P/N 7736.....

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

P/N 13-05553

COLORS AVAILABLE

Black	Navy	Charcoal	Metallic Blue
Oyster	Natural	Bamboo	Beige
Honey Tan	Oak	Mushroom	Creme
Silver	Mid Grey		

AIRCRAFT SPRUCE WINDBREAKER



These high quality, golf style pullover windbreakers are perfect for those chilly days on the course or at the airport. Color: Navy blue w/khaki trim and "Aircraft Spruce & Specialty Co" on left chest.

Medium P/N 13-01987

Large P/N 13-01988

X-Large P/N 13-01989

2XL P/N 13-01990

AIRCRAFT SPRUCE T-SHIRT



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.:

	White	Price
Small	P/N 13-02810	.
Med.	P/N 13-02910	.
Large	P/N 13-03010	.
XL	P/N 13-03110	.
XXL	P/N 13-03120	.

MEN'S BLACK			WOMEN'S BLACK		
Size	Part No.	Price	Size	Part No.	Price
Small	13-04729	.	Small	13-06507	.
Med.	13-04731	.	Med.	13-06508	.
Large	13-04732	.	Large	13-06509	.
X-LRG	13-04733	.			
2XLG	13-04734	.			
MEN'S WHITE			WOMEN'S WHITE		
Size	PN	Price	Size	Part No.	Price
Small	13-04730	.	Small	13-06513	.
Med.	13-01985	.	Med.	13-06514	.
Large	13-01982	.	Large	13-06515	.
XLRG	13-01979	.			
2XLG	13-01976	.			
MEN'S LIGHT BLUE			WOMEN'S NAVY BLUE		
Size	PN	Price	Size	Part No.	Price
Small	13-04728	.	Small	13-06516	.
Med.	13-01986	.	Med.	13-06517	.
Large	13-01983	.	Large	13-06518	.
XLRG	13-01980	.			
2XLG	13-01977	.			

AIRCRAFT SPRUCE PATCH

This is an embroidered patch, oval in shape, and approximately 3-1/2", colors are Red/White/Blue.

P/N 13-02709



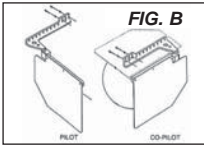
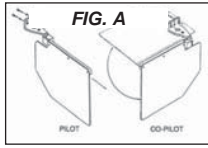
AIRCRAFT SPRUCE CAP

Our heavyweight 100% brushed cotton hat is perfect for aviators. Unlike other caps, ours features a no-button construction for comfort while wearing your headset. Low profile cap has aircraft design on front panel and Aircraft Spruce logo on back. A great looking top quality cap Stretch fit, one size fits all.

P/N 13-03895ea.

SUN VISORS - PITOT TUBE COVERS

ROSEN SUN VISOR SYSTEM



Don't fly blind! Give yourself and your passengers that extra margin of safety. These transparent sun visors rotate and extend to offer complete cockpit protection from the sun. The oversize, tinted lens filters out 95% of the ultraviolet rays, reduces glare by 94% and heat by 86%. Distortion free. Fully STC'd and PMA'd. The system, which includes pilot and co-pilot visors, installs in minutes. (Exceptions: C-210 non-pressurized requires 1.5 hrs, C-152 requires rivnut installation by an A&P, C-177 req. 6-8 hrs.). Available for these aircraft. Visit our website for specs., installation, and application data.

BEECH - Bonanza/Baron, standard.....	P/N 7568
Bonanza/Baron,3rd Axis option.....	P/N 7311
Duke.....	P/N 7738
1900D.....	P/N 13-01926
King Air.....	P/N 13-01927
MOONEY - 1968 and later models original visors mounted on right or left side (not on center post).....	P/N 7762
PIPER	
Comanche, All models,standard	P/N 7809
Comanche, Third Axis option	P/N 7924
Cherokee, Center mount	P/N 13-01315
Cherokee, swivel stud	P/N 13-01316
Seneca	P/N 13-01317

CESSNA

1980 and later - 170's to 206's (except 177's) Center Mount	P/N 7629
All 150's and 152's. Prior to 1980 - 170's - 206's (except 177's) Side Mount	P/N 7006
Cessna 180 3rd axis (1980 & earlier)	P/N 13-03173
Cessna 180 3rd axis (1981 & later)	P/N 13-03174
210's w/o air cond. (Older 210's, see above).....	P/N 7152
P210's and 210's w/air conditioning.....	P/N 7426
177's.....	P/N 7582
T303	P/N 13-01928
310s & 340s, special order to replace units with ball-joint cover style visor only (shown)	P/N 7687
337	P/N 13-01308
320	P/N 13-01311
350/400.....	P/N 13-06044
400	P/N 13-01312
412B	P/N 13-05180
GRUMMAN - Cheetah	P/N 13-01313

RV-10

Rosen Sun Visor Set - RV-10	P/N 13-05695
Rosen Sun Visor - Pilot Side.....	P/N 13-05696
Rosen Sun Visor Set - Copilot Side	P/N 13-05697

MAULE

Rockwell Commander 114	P/N 13-03328
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OTHERS*

Cirrus SR20 / SR22.....	P/N 13-03258
Lancair IV	P/N 13-01934
Pilatus P12	P/N 13-01936
Homebuilders Universal surface mount	P/N 13-03175
Homebuilders Universal tube mount	P/N 13-03176

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 examples, come with third axis stanard). P/N 13-04014.....



ROSEN CREW SUNSHADES

A highly effective solution to excessive heat build-up in the cockpit. CrewShade is easily fixed to the side windows with (2) attached suction cups. Suction release tabs make repositioning quick and simple. The CrewShade folds and stores in the included 6" diameter carrying pouch when not in use. Shade dimensions: 14 1/2" x 17 1/2" P/N 13-06271.....



TINTED VISORS FOR CESSNA, BEECH, & PIPER

These tinted visors shade the sun and enable easier scan for traffic. They replace the stock visor and install in minutes using easy to follow instructions. Visors actually enhance visibility. Made in USA. Sold in sets of 2. FAA approved.

Visors for Cessna 150/152, 177, 210, 337	P/N 13-14250
Visors for Cessna 172/182,180,185,205, 206.....	P/N 13-14255
Visors for Beechcraft E33,E33A,E33C,F33,F33A,F33C, G33, H35, J35, K35,M35,N35,S35,V35,V35A,V35B,36,A36,A36TC,B36TC,95-A55,95-B55,95-B55A,95-B55B,95-C55,95-C55A,D55,D55A,E55,E55A,56TC,A56TC,58,58A Pre-1978 (early model).....	P/N 13-00542
Visors for Piper PA-28-140, PA-28-150, PA-28-160, PA-28-180, PA-28R180, PA-28-235 1964-1971.....	P/N 13-00541

DIM-IT MOVEABLE VISOR



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

DIM-IT Moveable Visor	P/N 7172
Adapter (for porous surfaces).....	P/N 7113

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/windshield and press. P/N 13-01758.....

ADJUSTAVISOR



The Adjustavisor, a clip-on unit that virtually doubles the effective range of stock visors, adds contrast, and reduces glare and fatigue. Available with yellow or smoke polycarbonate lens with UV protection. There's also a suction cup model for aircraft with canopies. The cups are strong enough and the visor assemblies light enough that they stay attached to any window through most any maneuver. Size:3.5"x 12". Clip-on (yellow).... P/N 13-03264

Clip-on (smoke) ...	P/N 13-03263
Suction (yellow) ...	P/N 13-03262
Suction (smoke)...	P/N 13-03261

PITOT TUBE COVERS



Spruce's own pitot covers feature an authentic, soft, bright red vinyl - will not fade, mildew resistant, made to Mil-C-20696. Remove Before Flight streamer. The durable leather-like bootie attaches simply with a Velcro strap and offers optimum protection from insects and weather. slip-fits over 5/8" or 11/16" dia. pitot tubes. P/N 15210

SLIP ON PITOT COVER - This high quality pitot tube cover also features the "Remove Before Flight" bright red streamer, but slip-fits over 1/4" or 1/2" dia. pitot tubes. Great looks & great protection! P/N 15220.....



ROUND CESSNA PITOT COVER - This yellow urethane pitot cover fits round, high-wing Cessna pitot tubes. Grooved fitting releases air pressure as the barometer changes. P/N 5139.....

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.....

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. High visibility, fire resistant material. P/N15200.....

DO NOT TOW STREAMER 17" Streamer, attach with Velcro, Color international orange. P/N 13-02004.....

ASA PITOT TUBE COVERS

Fit snugly over standard aircraft pitot tubes, and are vented to avoid pressurizing the pitot static system. Critical to safe operations, the cover keeps dirt, contamination, and insects from entering the pitot tube. A "remove before flight" streamer hangs off the cover as a prominent preflight reminder to pilots. Molded in the United States, the cover uses a heavy duty plastic material. Pitot Tube Cover 5/8" (small) P/N 13-02378

(Fits: Cessna 300/400 series, Citation & Conquest, Beech singles & twins, Piper Navajo & Cheyenne, Mooneys, Mitsubishi, Lear Jets & Cirrus)
Pitot Tube Cover 3/4" (large)..... P/N 13-02377

(Fits: Cessna 150,152,172,177,182, 200 series, Skymaster & the Falcon Jet)

FUEL CAP COVER



The STAY SEALED cap is a patented fuel cap cover that locks onto the existing factory cap and seals to the surface of the wing. Designed 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 SSCC fits the following: Cessna Series: 152, 172, 182, 206, 207, 210. Fitted with the raised metal fuel cap. P/N 05-03662
Model SSCP fits the following: Cessna 120,140,150,172 with recessed fuel filler opening P/N 05-03668
Model SSPC 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

PS

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 for a tight fit. They install in no time, and roll up for storage in compact, water-repellent bags. Weight is 1Lb. Available for most aircraft, specify year, make and model. For custom shields, specify exact size of windshield & windows. Also available for cars. Fabric edging insures snug fit & durability.

P/N 7672.....



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.....



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. A safety strap goes around the prop so if by chance you forget to remove the plugs, the prop will remove them for you. These cowl plugs install easily and comes with their own storage bag. Specify aircraft make, model & year when ordering. Include aircraft registration number to be printed on plugs at no extra charge.

Single engine plugs..... P/N 13-14111.....
Twin engines plugs..... P/N 13-06212.....

KENNON HEATED COWL PLUGS



Kennon builds an electric heater attachment into its engine cowl plugs to provide the heat you need on those cold winter nights. Simply install the cowl plugs and plug in the heaters then bundle up your cowling with a Kennon insulated Engine Blanket and your engine will stay toasty until you are ready to fly again. The 50W heaters are energy efficient. Plus, you can remove the heater(s) and use the cowl plugs year-round to keep your air intakes clean and bird free. Keeps the air intakes clean and preheated. As with any preheat system, an insulated engine cover is recommended.

Single heater (Temps. down to 15°F)..... P/N 13-03171.....
Double heater (Temps. below 15°F)..... P/N 13-03172.....



CUSTOM FIT COWL PLUGS

These cowl plugs are tailored to fit popular Cessna and Beech 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#. They are joined by a nylon strap with a fluorescent orange Remove Before Flight flag. Please use following part no's. to specify aircraft.

C-150 (2 Hole Only)..... P/N 13-02620.....
C-172 (1965+)..... P/N 13-02625.....
C-182 (1972.5 - 1989)..... P/N 13-02630.....
B33-35..... P/N 13-02637.....

Universal kit w/square inlets (Sqr blocks you cut to fit)
P/N 13-02645...../pr



KENNON WIND SPOILERS

Kennon Wind Spoilers are a strip of soft fiber filled tubes that attach to the wing to slow airflow over the top and to prevent lift. An airplane was built to fly, given a strong wind, the plane will fly without you and no tie down will restrain a flying airplane for long. During the stormy winter of 1998, over 200 airplanes were picked up and destroyed by strong winds. Kennon Wind Spoilers could have saved many of these aircraft. The wind spoilers cover the leading edge of the wings but not the tips, and most are about 14.5 ft long (per wing). Specify aircraft make, model, year when ordering.

P/N 13-14180...../pr

LANCAIR & ZENAIR CANOPY COVERS



These custom designed covers for the Lancair 235/320 and the Zenair Zodiac canopy are made of acrylic "Sunbrella" fabric and are available in blue, grey, or white. The 100% acrylic fabric won't shrink, fade, or rot. Nylon webbing straps assure secure fit while snap together buckles permit fast adjustment, fastening, and release. Side adjustments provide tight fit. These covers will protect your avionics and interior from sunlight and heat damage.

Lancair Blue Canopy Cover..... P/N 13-14110.....
Kennon ZenairBlue Canopy Cover..... P/N 13-14140.....

ENGINE INTAKE COVER



Kennon's Low Wing Cabin Cover covers the top of the cabin, the antennae and the entire window area. Kennon Cabin Covers are made from Sunbrella which is designed to withstand the sun's ultra violet rays. Sunbrella is the award winning UV resistant outdoor fabric. It is very soft and breathable so it is safe to use as a year round cover on any aircraft. It is a must for fabric covered wings and tails. Each cover is custom built for the specific year, make and model of aircraft. You will be asked for aircraft year, make, model, and registration number when ordering this item. There is an additional cost for the microfiber lining, and the cost varies based on aircraft.

Engine Intake Cover P/N 13-04047.....



KENNON DUST COVERS

The Kennon Dust Covers keeps dust, birds, and bird droppings off aircraft stored in hangars. Made from 210 Denier Nylon, the cover is soft, lightweight, and machine washable. Will not scratch the aircraft. It is easy to put on, with the elastic hem fitting around the nose, wing, and tail. Stores in its own storage bag and weighs only 10lbs. Available in sizes to fit any aircraft from homebuilt to military. Specify year, make & model of aircraft when ordering. Color: Black or Blue. **Stock Color is Black. For Special order color (blue or red) add.**

Small for aircraft up to 21 ft long, wingspan to 31 ft.
P/N 13-14145.....

Med. for aircraft up to 30 ft long, wingspan to 37 ft.
P/N 13-14146.....

Light Twin up to 35 ft long w/wingspan to 40 ft.
P/N 13-14147.....

Red or blue color covers..... P/N 13-06411.....

Other aircraft - Custom Made - Call for price

KENNON SUN BLOCKER AIRCRAFT COVERS



Kennon's Standard canopy cover is constructed from Sunbrella, an acrylic woven canvas in your choice of colors. Off white or light gray are the best choices as they absorb less heat. Provide Kennon with antenna measurements and we will tailor the cover so it fits neatly around antenna, OAT boot and ADF wires at no additional charge. Kennon's deluxe canopy cover is constructed from Sunbrella in your choice of colors and adds a satin lining to prevent sand and dirt from adhering to the fabric, which could later scratch your windows. Satin is superior to fleece and flannel liners because the satin is slippery and nothing sticks to it. Constructed from a woven acrylic canvas, Kennon Sun Blocker Aircraft Covers are guaranteed not to become unserviceable due to loss of color, strength from normal conditions, including sunlight, mildew, rot, or atmospheric chemicals. These covers repel water yet breathe so that they don't trap moisture. Specify aircraft make, model, and year, and number of side windows. Include aircraft registration number to be printed on cover at no extra charge.

HIGH WING WRAP-AROUND COVER – Cessna120-210, Cessna 337; L-19; PA10, PA22 including Pacer, Tripacer, Cub, Super Cub, Colt, Luscombe, Stinson 108, Aeronca, Citabria, Maule, Rockwell 685/690/980, Aviat, Christian Husky, Lake Renegade
Deluxe..... P/N 13-14146-D.....

LOW WING WITH 3 SIDE WINDOWS – Earlier than 1971 Piper Cherokee VI, Piper, PA28 181, 200, 235 incl. Arrow, Archer & Warrior, Dakota, Aerospatale, Trinidad, Tobbago, Piper Commanche (Some but not all...ASK), Aztec, Apache, Cessna 310 (exception to 2 window rule)
Standard..... P/N 13-14148-B.....
Deluxe..... P/N 13-14148-D.....

LOW WING WITH 4 SIDE WINDOWS – Piper Cherokee VI, Lance, Saratoga, Malibu, Seneca, Aerostar, Beech Baron 58, Beech 33, 36, Beech King, Air (Cockpit), Lear 2500, 3500 (Cockpit)
Standard..... P/N 13-14149-B.....
Deluxe..... P/N 13-14149-D.....

LOW WING WITH 4 TO 5 SIDE WINDOWS – Piper Navajo Chiefton, Cheyenne, Cessna 340, 402, 414, 425, 441, Citation, Beech Duke
Standard..... P/N 13-14150-B.....
Deluxe..... P/N 13-14150-D.....

SUN SPOTS



* Front & Side Windows, Passenger side Windows. Also place onto Existing Transparent Sun Visors for extended coverage & darker shade "D" * Two 5-1/2" dia. disks, easy handling & storage * Suction cup attachment, lightweight, 4 mills thick * Disk rotate 306° "B", for total of a 10" diameter * 2 disks overlap for double shade strength "A" * Separate disks for single shade strength "B" * Split disks for half & half shade strength "C"

P/N 13-06774.....

COWL PLUGS - AIRCRAFT COVERS

COWL PLUGS



Cowl Plugs with attached "remove before flight" streamer for general aviation aircraft. Prevents bird and foreign objects from entering through the cowl. Comes complete with a linking lanyard and remove before flight streamer. Heavy duty cross linked construction and durable nylon hand sewn stitching

complete the set. Please specify aircraft make, model, & serial number when ordering. Single engine plugs are furnished with free embroidery and pitot tube cover. Twin cowl plugs include only the cowl plug and embroidery is available for an additional \$10.00

Single engine.....P/N 13-01742.....
Twin engine.....P/N 13-01743.....

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.....

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 13-01745..... /je

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.....
Intake Cover Bib..... P/N 7133.....

KUVR**IT WHEEL COVERS



The KUVR**IT II Wheel Cover is designed to cover that precious investment, "your tires", on your airplane. The fabric is 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 sun's 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 3 sizes for your convenience:

Small fits tire size: 5.00 - 5/15 x 00-6.....P/N 13-03158.....
Medium fits tire size: 6.00 - 6/7.00-6.....P/N 13-03159.....
Large fits tire size: 6.50 - 8/8.50-10.....P/N 13-03160.....

REDWING TRAILING EDGE PROTECTIVE FOAM



RedWing helps prevent aircraft damage and head injuries. Just slide the foam onto the trailing edges of ailerons, elevators, rudders or flaps to protect these surfaces while tied down or in the hangar. RedWing is also ideal for protecting landing gear doors, avionics

antennas, and winglets. The bright red color reminds the pilot to remove RedWing before flight, and RedWing is reuseable and unaffected by UV, water, or oils. Furnished in 3ft. sections which can be easily cut to smaller sections.

P/N 13-02566.....

BRUCE S CUSTOM COVERS



Canopy Covers protect the glass, upholstery and avionics from the elements, stop leaky seals and keep the cabin cool. Canopy Covers also prevent vandalism and theft.

Bruce's Custom Covers makes canopy/cabin, engine, empennage, propeller, wing and pitot covers as well as engine inlet plugs for virtually every model jet, airplane and helicopter. Covers generally cost \$350 - \$425, are 100% lined, and can be imprinted with your aircraft tail number. Each cover is custom made to order and lead time is generally three weeks.

For a complete technical sheet including prices, photos and information about covers for your aircraft, please call us at 1-877-477-7823.

Bruce's Custom Covers ordering Package..... P/N 13-04693.....FREE

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 (9oz. for side by side RV models)
- Install in 1/2 to 1-1/2 hours depending on the model.
- Makes instruments more visible, and the cockpit more comfortable.



Fi	De cri i	Par N .	Price
RV-8	Size of shade: 15" wide by 46" long	13-05657	.
RV-6, 6A, 7, 7A, 9, 9A	Standard TIP-UP model Size of shade: 30" wide by 25" long	13-05658	.
RV-6, 6A, 7, 7A, 9, 9A	Standard SLIDER model Size of shade: 30" wide by 25" long	13-05659	.
Zodic 600XL, Legacy, Cirrus SRS, Falco, Sport Crusier, EuroStar, Sting, Europa, etc.	LARGE TIP-UP model for larger bubble canopies	13-05660	.
Built to Order	LARGE SLIDER model with top center structure canopies are built to order. Size of shade: 34" wide by 35" long	13-05661	.

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 The prop tips of an aircraft have proven to be a very dangerous area for aircraft personnel. Just place the aircraft covers on the prop tips to warn and protect personnel working or walking around an aircraft. Trisoft is a simple foam triangular cover that slips onto the corners of the prop tips, gear doors, wing flaps (in the lowered position), wing tips, and dorsal antennas, protecting aircraft personnel and aircraft during maintenance, pre-flight checks, cleaning, etc. Trisoft can be used on personal aircraft, corporate aircraft, commercial aircraft, military aircraft and helicopters. P/N 13-06003.....

SAFETY PROP TIPS



Reduce the risk of injury from a stationary aircraft prop by covering the tips with the Safe Prop Tip. This new safety device is made of thick foam covered in a bright red fabric. While the bright color calls attention to the prop to help prevent an accident bump, the thick padding adds protection in case someone does walk into the prop. Reflective tape on the front of the guard improves awareness at night, and an elastic ribbon, which holds the unit together, is a perfect place to hang the "Remove Before Starting Engine" streamer.

2 Blade.....P/N 13-03594.....
3 Blade..... P/N 13-03595.....

PLANE SIGHTS REMOVE BEFORE FLIGHT

PLANE SIGHTS PITOT TUBE COVERS

Extremely obvious, very durable, and weather resistant pitot tube covers for every aircraft.

ANGLED PITOT TUBE COVER - Aircraft Type: Piston Powered Plane This durable, weather-resistant orange and yellow reflective cover fits virtually any size pitot tube. It stands out in daylight or darkness under all weather conditions, so it can't be missed. Large sewn-on Velcro tabs keep it securely in place under all conditions. Weight: 0.14 kg If length of the tube exceeds 6.75" and the diameter exceeds 7/8", then the Universal Pitot tube cover would be a better choice. As seen on the 2009 AOPA "Let's Go Flying" Cirrus SR22 P/N 13-05611.....

UNIVERSAL PITOT TUBE COVER - Aircraft Type: Piston Powered Plane. This durable, weather-resistant orange and yellow reflective cover fits virtually any size pitot tube. It stands out in daylight or darkness under all weather conditions, so it can't be missed. Universal covers fit any length of tube from the smallest home built 1/4" 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". Guaranteed to work on any Cessna, Beechcraft, Cirrus, Diamond, Grumman or Mooney aircraft, as well as most Pipers and many light sport aircraft. P/N 13-05610.....

BLADE PITOT COVER - Aircraft Type: Piston Powered Plane Forgetting to remove a faded, dull and worn-out pitot tube cover can jeopardize the safety of you and your passengers. And when cold weather prevents you from installing your pinch-and-insert style blade pitot cover, ice and snow can contaminate your pitot system. Some blade pitot covers also cause damage to paint when the sleeve is being forced on and off. The highly conspicuous and very durable Plane Sight's 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 aircraft) Weight: 0.15 kg Fits Piper, Katana, some Rockwell, late Grumman, Lake 250, and most other aircraft with a blade type of pitot tube. P/N 13-06016.....

PITOT TUBE PLUG (5/8") - Aircraft Type: Piston Powered Plane 5/8" inside diameter vented pitot plug with its unmistakably conspicuous Remove-before-Flight Streamer. ANSI-compliant and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions. The plug is attached to the streamer's rugged black oxide coated zinc grommet with a galvanized steel ring, and is vented to prevent 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" (38.10mm) P/N 13-06019.....

PITOT TUBE PLUG (3/4") - Aircraft Type: Piston Powered Plane. 3/4" inside diameter vented plug with its unmistakable Remove-before-Flight Streamer provides a perfect easy-on, easy-off solution. ANSI-compliant and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions. The poly plug is attached to the streamer's rugged black oxide coated zinc eyelet with a stainless steel ring. This 3/4" plug Fits Cessna 150, 152, 172, 177, 182, 200 series, and 337 models. Weight: 0.04 kg 3/4"/0.75" (19.05mm) ID x 2" (50.80mm) useable length P/N 13-06018.....

LIGHT SPORT PITOT PLUG KIT - Aircraft Type: Piston Powered Plane. Light Sport/Homebuilt Pitot Plug Kit provides a perfect fit for many homebuilt pitot tubes, light sport pitot tubes, and aircraft fuel vents. The kit includes several vented plugs so it even works with double-tube systems and is guaranteed 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 AME AND CONSULT YOUR OWNER'S MANUAL BEFORE USING A FUEL VENT PLUG. P/N 13-06020.....

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 tight weather resistant fit on Citations and other jets. Weight: 0.04 kg Round, tubular poly cover, 0.310" x 0.450" x 7.000" Long. *Shock cord lanyard not included P/N 13-06775.....



STATIC WICK COVERS (SMALL ID X7") - Aircraft Type: Jet. Installed and removed in seconds, Static Wick Covers help prevent delays and inconvenience due to hangar rash. Extremely obvious and very durable Static Wick Covers make these vulnerable parts highly visible by day or night. Slide these round style covers on for a tight weather resistant fit on your Bombardier (Challenger & Global Express) or Hawker/Beechcraft and many other jets. If necessary cut with scissors to desired length. Weight: 0.20 kg Fit's over static wick part #'s: Chelton 2-17SC-1, Chelton 2-11SC-1, MIL-9129D, DG17770. Fits Bombardier, Hawker/Beachcraft and others P/N 13-06777.....



STATIC WICK COVER (SQUARE STYLE) - Aircraft Type: Jet These Square Style Static Wick Covers protect, usually yellow pronged static wicks from damage on the ground and make wing/elevator tips more obvious, thereby preventing hangar/ramp rash. Slide these rectangle covers on for a tight weather resistant fit on Falcon, Hawker, Beechjet, older Lear Jet and many other static wicks. Weight: 0.21 kg Includes three (3) Static Wick Covers per package Square Poly, 0.75"x0.25"ID 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 13-06775.....



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. Fit all aircraft from Airliners to light sport aircraft, including models with static wicks and strobe lights. For aircraft with tip tanks, the wing marker opening fits over one end of the tank. A full set stows easily under most aircraft seats. Once initial fitting is done, the markers can be installed and removed in seconds during routine pre- and post-flight walk-arounds. Weight: 0.08 kg Package Contents: Two (2) corner marker pieces, two (2) harness pieces, two (2) marker fuses, four (4) 54" lengths of shock cord with cord hook ends, and four shock cord hook ends for assembly. P/N 13-05603.....



PROP MARKER, 3 BLADE - Aircraft Type: Piston Powered Plane. Featuring light reactive trims and tapes, these highly reflective Prop Markers are made to improve the visibility of your prop and aircraft day or night, helping you prevent the unexpected depreciation of your plane. Easily installed and removed in just seconds, adding virtually no additional time to your walk around. This prop marker fits aircraft such as a Cirrus SR22, Cessna 206, Cessna 182, Piper Malibu, Beech Bonanza, Beech Barron or similar three blade aircraft with medium size nose cone. Weight: 2.60 kg. Medium Cone P/N 13-05607..... Large Cone P/N 13-05608.....



PROP MARKER 2 BLADE - Aircraft Type: Piston Powered Plane. Made to improve the visibility of your prop and aircraft day or night. Prop Markers are easily installed and removed in just seconds, adding virtually no additional time to your walk around. Made from UV resistant Sunbrella, custom bonded with a soft, non-abrasive inner fabric. Quick and easy storage without tangling. Weight: 0.30 kg Small P/N 13-05605..... Medium P/N 13-05606..... Large P/N 13-05681.....



TURBO PROP TIE - Aircraft Type: Turboprop. Fits most Turbo Props including Caravans, Beech 1900s, King Airs and others. An adjustable heavy duty 1/2" shock cord and metal hook allows the versatile design to work on so many turbo prop aircraft. Also allows our Prop Tie to Integrate with existing cowl plugs and exhaust covers. For any Turbo-Prop up with to 10" wide blade. Comes with 36" of HD 1/2" size adjustable shock cord and two stainless clips. P/N 13-06778.....



REMOVE BEFORE FLIGHT STREAMER - Aircraft Type: Piston Powered Plane. ANSI-compliant and weather-resistant reflective streamer stands out equally well in daylight or darkness under all weather conditions. The cord is attached to the streamer with a rugged black oxide coated zinc eyelet. T Package Contents: Streamer - 12.25" long x 2" wide, Comes with two metal rings included) P/N 13-05612.....



DIAMOND STALL WARNING PLUG - Aircraft Type: Piston Powered Plane Diamond recommends that operators of their DA40 and DA20 aircraft plug the stall warning air inlet holes on these aircraft while they're parked on the ground. Fits any Diamond DA40 or DA20, one way or the other. ANSI-compliant and weather-resistant reflective remove-before-flight streamer stands out equally well in daylight or darkness under all weather conditions. P/N 13-06830.....

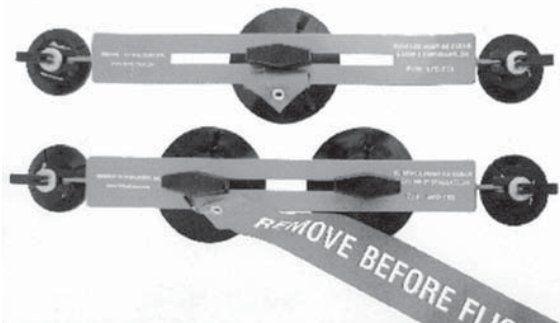
AIRCRAFT COVERS - AIRCRAFT LOCKS

REMOVE BEFORE FLIGHT STREAMER



2-1/4" wide, 17" long red polyester fabric with white writing: "Remove Before Flight" P/N 13-01458.....

UNIVERSAL STATIC PORT COVERS



The SPC101 and SPC102 are essentially the same product, built on the same platform. The SPC102 has two protective covers in line rather than one, for applications where redundant static ports are installed in line.

Features: * An inexpensive, yet very effective alternative to other covers and plugs * Universal design to fit most aircraft * Lightweight entire assembly weighs less than 1/2 pound * Attaches with heavy duty lever cups designed to lift 40 lbs. each * No fuselage modification required * Prevents the possibility of any damage to static ports by being an externally mounted cover * Malleable light gauge 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 * TESTED AND APPROVED!

SPC-101.....P/N 13-06723.....
SPC-102.....P/N 13-06724.....

PITOT COVERS

Avoid costly damage to your pitot-static system. Protects from dust, insects, wind and other foreign matter. Will not pressurize pitot-static system.

MODEL 4602 - Fits Piper, Katana, some Rockwell, and late Grumman aircraft. P/N 13-06395.....

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

LJR 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.....

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.....

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

PITOT TUBE INSTALL TOOL



This tool was developed, in response to fleet owner and FBO requests. They were having experienced difficulty installing Covers onto high wing Pitot Probe locations, e.g., Cessna Caravans, Bush aircraft with Tundra tires, float planes and amphibians. In field trials it was found that this tool is also very useful to install-remove the same Covers onto over-the-nose Pitot Probes, of Very Lite and commercial jet aircraft! Features: * View-Through cover grippers for easy install * Low mass for control in windy conditions * Ergonomic shape to reach high wing, and most over-the-nose mounted probes * All weather non-slip handle gripP/N 13-06672.....

AIRCRAFT WINDLOCK



The Wind-Lock is designed to attach to an aircraft's controls inside the cockpit. The non-rigid mechanism keeps tension on the Elevators, holding them in the full down position. This position also allows moisture to drain from inside the control surface. It also holds the Ailerons in a streamlined position. As the wind gusts, resistance is applied. The harder the wind blows, the more resistance is applied to the controls. When the wind dies down, the

Wind-Lock allows the Ailerons to return to their normal position. As the load is reduced, the tensioning mechanism reduces pressure on the control yoke. P/N 05-04044.....

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.

Small Cessna P/N 13-02851.....
Cessna 206 P/N 13-03166.....
Cessna 210..... P/N 13-03165.....
Cessna 337..... P/N 13-03167.....



KENNON GUST LOCKS

Locks flaps, ailerons, elevator or rudder securely. Made from special weather resistant, high density, closed cell foam with a nylon eyebolt! Won't scratch. P/N 07-01329.....

PAD-LOK CONTROL SURFACE LOCK



Like it says, a padded lock. Effectively locks control surfaces while the padding compresses to the proper configuration and protects the surface finish. Padding won't absorb water. Hard-to-miss Dayglo color, plus yarn streamers. Wt. 10 oz. P/N 13-22700.....

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, 172, R172, 175, 180, 182, 185, 190, 205, 206, 207, 210, 303, 337. Not a seat lock, Saf-T-Stop is designed to restrict rearward motion if the seat lock fails. P/N 13-18510..... /pr

SAFETY FOOT STOP SEAT RESTRAINT FOR CESSNAS



Safety Foot Stop provides extra insurance against loss of aircraft control due to a sudden aft movement of the seat due to excessive wear of the seatrail holes. Should the pin not engage in the rail hole, Safety Foot Stop will still prevent the seat from moving aft. Can be owner installed without a form 337 or STC in single engine Cessnas. Comes complete with all hardware and detailed instructions, and installation time is one hour per seat. One seat..... P/N 05-03390.....

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 121lbs. P/N 13-05182.....

WHEEL CHOCK LOCK



This innovative aircraft security device clamps to the wheel which prevents theft of the aircraft, while the built-in chock prevents the wheel from rolling forward when parked. The lock and chock are yellow, while the red rubber coated arms protect the finish of the wheel. Fits any type of wheel up to 12" wide. Lifetime warranty. P/N 13-06141.....

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

Aircraft	Part No.	Price
PA-28, PA-32, PA-24, PA-30 & PA-39, PA-32R, PA-34 & PA-44	13-00855	.
Commander 112 / 114	13-32730	.
Mooney, Grumman Goose, Maule (Tricycle gear & Seaplane) PA-23, & Grumman American, Myers 200 & Commander200	13-00863	.
Cessna Single engine 150'&172's, Helio Courier, 295/395	13-00864	.
Cessna Single engine 180, 206 & 210's fixed & retract gear & Cessna 337	13-00865	.
Aerostar, Commander 500, Beech Baron, Bonanza, Duke & 18/C-45, Lake L-A-4 (except Renegade)	13-32790	.
Cessna Tailwheel, Stinson, Beech Staggenwing	13-32800	.
Lake Amphibian	13-32820	.
Beech King Air	13-32830	.
Cessna 310's	13-32840	.
Aeronca Chief 508, Taylorcraft BC 12-D, Stinson 108 & 108-1	13-32850	.
PA-38	13-32860	.
Maule (Tailwheel)	13-32871	.
Piper PA-31, Chieftain, Navajo, Chyenne	13-32880	.
Socata (Trinidad), Grumman Widgeon	13-32890	.
Seawind	13-32885	.
Dehaviland Beaver	13-00866	.
Cessna Twins (except 337 & 310)	13-00867	.
Piper Malibu	13-00868	.

STICK CONTROL AIRCRAFT

Aircraft	Part No.	Price	Aircraft	Part No.	Price
J3 w/Shin Knocker Tubes	13-00871	.	Husky, Pitts	13-00880	.
Piper PA-12	13-00872	.	Micco	13-00881	.
Piper PA-16	13-00873	.	Piper J-4	13-00882	.
Piper PA-11	13-00874	.	Swift	13-00883	.
Piper PA-14	13-00875	.	RV-6	13-00884	.
Piper PA-15/17	13-00876	.	Luscombe	13-00885	.
Piper PA-18 & J3 Shin knockers	13-00877	.	Kit Fox	13-00886	.
Piper PA-20	13-00878	.	Waco	13-00887	.
Champ & Citabria	13-00879	.	Lancair IV	13-00888	.
			Bellanca	13-06114	.
			Glastar	13-06123	.
			YAK	13-00891	.

YORK ACCESSORIES

Do not throw away warning flag (included with each Gust-Lok™, but also sold separately).....P/N 13-00869.....



AIRGIZMO UNIVERSAL GUST LOCK

If you fly for very long you will quickly realize the importance of locking your control surfaces when leaving the plane outdoors. Finally we have a solution. The AirGizmos Gust Locks are designed to quickly lock virtually any control surface securely. Its bright color and integrated flag reminds you to remove before flight. The rubber cushions ensure that your finish will be protected. They are lightweight and portable. Perfect for carrying in the plane wherever you go.

P/N 13-06139.....

AVIATION PROP LOCK



The Prop Club® inhibits flight by creating an out-of-balance condition. Made of tempered steel, The Prop Club® is an anti-theft device that locks securely onto the propeller at the hub via a four-digit combination. The small Prop Club® has a compressed opening range of 4-1/4" to 5-1/2" (wt: 2.4 lbs) and the large Prop Club® has a compressed opening range of 6" to 8" (wt: 2.8 lbs). As long as the Prop Club® can attach to the base of the prop within this range, and the closed dimensions are smaller than the widest part of the prop, The Prop Club® will remain securely attached to the propeller hub. It will not work on props that maintain the same width from base to tip. Small Prop Club P/N 13-03378..... Large Prop Club P/N 13-03379.....

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.....

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.....

AIRCRAFT THROTTLE LOCK



Protect your aircraft from theft! This throttle lock is recommended by the International Aviation Theft Bureau, Avemco Insurance Co., AOPA and other insurance companies. Available for vernier or non-vernier throttle. Vernier Lock.....P/N 13-08000..... Non-Vernier Lock.....P/N 13-08100.....

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.....



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.....

PIPER THROTTLE LOCKS



Don't damage your aircraft by using a propeller lock. It happens more often than you think. Someone accidentally turns the key with a propeller lock installed. Usually it something innocent like taxiing the plane to the maintenance hangar or to the wash down area.

The owner or lineman jumps in the plane without doing a pre-flight, after all you're not planning on flying, you just want to move the plane...but all it takes is a turn of the key to damage a propeller, cowling or bent the crankshaft on the engine.FEATURES: •Prevents unauthorized use of your aircraft •Locks the throttle, mixture & propeller controls •You cannot start or operate the engine & propeller with the lock installed •Key lock, includes two keys •Installs and removes in seconds •No holes to drill, no modifications to aircraft •Strong steel construction •Safety yellow color •Available in three sizes for Piper aircraft •Fits aircraft having a throttle quadrant with a tubular horizontal throttle knob (does not fit aircraft having a round throttle knob).

Description	Part No.	Price
Model #7700 Fits four seat, single engine Piper aircraft with a throttle quadrant	13-04240	.
Model #7710 Fits six seat, single engine Piper aircraft with a throttle quadrant. Does not fit all Malibu aircraft.	13-04241	.
Model #7720 Fits Piper Seneca & Seminole twin engine aircraft	13-04242	.

IMPORTANT: The #7720 does not fit: Apache, Aztec, Twin Comanche, Navajo, Aerostar. The lock fits aircraft having a throttle quadrant with a tubular horizontal throttle knob. The lock does NOT fit aircraft having a round throttle knob or ball.

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 fighting agent.

DISPOSABLE, LOW-MAINTENANCE HALON 1211-1301 BLEND - Contain a proprietary blend of the "liquid streaming agent," Halon 1211, and the gaseous "total flooding agent," Halon 1301. The blend's power lies in the Halon 1301, which is both a firefighting agent and a propellant. Low maintenance and non-rechargeable. Lightweight aluminum canister Disposable. Tested to ANSI/UL 711 and UL 1093. Meets DOT requirements Meets the requirements in Advisory Circular 20-42C, "Hand Held Extinguishers for Aircraft" and/or NFPA 408, "Standard for Aircraft Hand Portable Fire Extinguishers" 12-year shelf life

RECHARGEABLE, STURDY INDUSTRY-STANDARD HALON 1211 - Required on commercial transport aircraft. Although classified a "liquid streaming agent," Halon 1211 also performs remarkably well as a "total flooding agent," seeking out and extinguishing fires in inaccessible places. A 6-year maintenance and 12-year hydrostatic test are required. Rugged steel cylinder. Pressure gauge enables easy confirmation of charge. Tested to ANSI/UL 711 and UL 1093. Meets DOT requirements. Meets the requirements in Advisory Circular 20-42C, "Hand Held Extinguishers for Aircraft" and/or NFPA 408, "Standard for Aircraft Hand Portable Fire Extinguishers"

HALON 1211-1301 BLEND UNITS	Part No.	Range	Price
RT A400 - 14 oz. (UL Rating 2B:C)	13-07650	4-6 ft	-
RT A600 - 1.2 lb. (UL Rating 2B:C)	13-07655	6-8 ft	-
RT A1200 - 2.5 lb. (UL Rating 5B:C)	13-07660	7-9 ft	-

HALON 1211 UNITS	Part No.	Range	Price
A344T - 1.3 lb. (UL Rating 2B:C)	13-01993	9-12 ft	-
A344TC - 1.3 lb. (UL Rating 2B:C)	13-02546	9-12 ft	-
C352TS - 2.5 lb. (UL Rating 5B:C)	13-01966	9-15 ft	-
C352TSL - 2.5 lb. (UL Rating 5B:C)	13-02547	9-15 ft	-
C354TS - 3.0 lb. (UL Rating 5B:C)	13-02548	9-15 ft	-
A1600 - 3.5 lb. (UL Rating 1A:5B:C)	13-07665	8-10 ft	-
B355T - 5.0 lb. (UL Rating 10B:C)	13-02545	9-15 ft	-
B369 - 15.7 lb. (UL Rating 1A:10B:C)	13-02557	12-18 ft	-
B371 - 19.9 lb. (UL Rating 2A:40B:C)	13-02558	12-18 ft	-

FIRE EXTINGUISHER BRACKETS

- BKT400** - Brackett for the RT-A400 Fire Extinguisher
P/N 13-06166.....
- BKT600** - Brackett for the RT-A600 Fire Extinguisher
P/N 13-06167.....
- BKT1200** - Brackett for the RT-A1200 fire Extinguisher
P/N 13-06168.....
- 845** - Brackett for the A344T Fire Extinguisher
P/N 13-06170.....
- 845** - Brackett for the A344TC Fire Extinguisher
P/N 13-06171.....
- 817S** - Brackett for the C352TS, C352TSC, C354TS Fire Extinguisher
P/N 13-06172.....
- BKT1600** - Brackett for the A1600 Fire Extinguisher
P/N 13-06169.....



H3R BILLET MOUNTS

H3R Performance hand held 1 lb. and 2.5 lb. fire extinguishers come standard with aviation style mounting brackets. Stylish and versatile billet mounting accessories are also available. Band clamps fit 2.6" or 3.0" diameter fire extinguishers, and can be combined with the flat surface mount or either of the two roll bar mounts. Available in polished and brushed finishes. One year limited warranty.

- Polished - Band clamp for 1.0/1.4 lb. fire extinguishers
P/N13-06062.....
- Brushed - Band clamp for 1.0/1.4 lb. fire extinguishers
P/N 13-06065.....
- Polished - Band clamp for 2.5 lb. fire extinguishers
P/N 13-06066.....
- Brushed - Band clamp for 2.5 lb. fire extinguishers
P/N 13-06067.....
- Polished -Flat surface mount P/N 13-06068.....
- Brushed -Flat surface mount P/N 13-06069.....

RECHARGEABLE, DURABLE EPA-APPROVED HALOTRON 1™

While it is less powerful pound for pound than Halon 1211, Halotron 1 offers all of Halon 1211's clean agent benefits, and Halotron 1 is less damaging to the ozone layer. H3R Aviation offers two Halotron 1 fire extinguishers: one FAA-approved unit for aircraft use and one wheeled unit for the flight line/ramp. These rechargeable extinguishers have pressure gauges and require a 6-year maintenance and a 12-year hydrostatic test. P/N 13-02562.....



FIREFLY PLUS FLASHLIGHT/STROBE



The Firefly Plus is a flashlight/emergency locator strobe which is visible for over one mile. The operating life of the strobe is 10 hours, and 2 hours for the flashlight (continuous). Firefly Plus operates on 2 AA batteries (not included) and made of durable ABS plastic. Waterproof & weighs 4 oz. Size: 2" dia. x 5-3/8"h. Excellent addition to any aircraft or home emergency kit. P/N 13-54050.....

C-STROBE LIGHT

The C-Strobe Light is a life preserver signaling emergency strobe which attaches to a life jacket or life vest with a steel pin or Velcro straps. The omni-directional strobe light is visible up to 2 miles. C-Strobe features a slim, lightweight, waterproof case and operates more than 8 hrs (continuous). Operates on 2 AA alkaline batteries (not included). P/N 13-54020.....



C LIGHT



The C Light is a life preserver signaling emergency light which attaches easily to a life vest or jacket with a stainless steel pin or Velcro strap. The intense incandescent light is visible for up to 2 miles depending on conditions. The lens intensifies light 20 times brighter than comparable products. Operates on 2 AA alkaline batteries (not included). Operates more than 8 hours (continuous). P/N13-54030.....

RAPIDFIRE VEST LIGHT



RapidFire Vest Light is a self-contained emergency rescue lamp. It's small, compact, rugged, and waterproof and attaches to a standard life vest. It automatically lights when vest is inflated or on manual pull-pin activation. Provides 8 hours continuous light output once activated. Single use light. P/N 13-54040.....

MINI B 300 PERSONAL RESCUE TRANSMITTER



- In-line speaker emits audio warble to confirm activation and transmission of distress signal or to notify of accidental activation
- Exclusive ACR audio indication of transmission allows effective self-test
- User-replaceable battery; unit uses inexpensive, easy-to-obtain common lithium camera battery, Duracell DL223A (or equivalent)
- Frequency stability exceeds ETS 300 152 standard; meets rules for satellite detection
- Perfect for use as Crew-Overboard system when combined with Vecta2™ Direction Finder
- Floats if dropped overboard
- 121.5 MHz (SAR frequency) provides rescue forces with pinpoint homing
- Antenna maximizes peak effective radiating power when fully extended. Compact size with antenna folded; durable double-braided antenna resists distortion when packed for extended periods
- LED indicator confirms transmission
- Battery installation instructions included

Operating life: 24 hours @ -20°C (-4°F) P/N 13-02416.....

RESCUE LASER FLARE MAGNUM™



Ahand-held nighttime laser signaling device that provides a convenient, effective way to signal a rescue party up to 20 miles (32 km) away, depending on atmospheric conditions. It's ease of operation, long life and waterproof design makes it the perfect survival signaling device. Unlike conventional pyrotechnic flares, the Rescue Laser Flare™ is non-flammable, non-hazardous and can operate continuously for 72 hours on two replaceable AA batteries. 72 Hour P/N 13-01924..... 15 Hour P/N 13-01923.....

ACTIVE EXTINGUISHING LINE



Active Extinguishing Line is totally independent, 1kg, fire extinguishing system from any power source. Its main secret lies in the heat detector in a form of a line made out of special laser predriller polymer, which will react instantly to any source of heat or fire. This line (heat detector) is connected to reservoir containing fire-extinguishing agent: hexafluoropropane FE-36. Inside of the protected device (equipment) a loop made out of the heat detector breaks, creating a mini sprinkler, directly over source of fire or heat, extinguishing it instantly. In a moment of activation the system closed circuit switch collapses sending a signal informing of fire. For experimental aircraft only. Ask for status of pending STCs..... P/N 13-03266.....

PS

SMOKE HOODS - LIFE VESTS

PARAT C EMERGENCY SMOKE HOOD



The PARAT C is a lightweight, portable easy to don smoke escape hood designed for self-rescue in the event of a fire. The PARAT C protects the wearer for a minimum of 15 minutes from smoke, carbon monoxide and toxic gases normally present during a fire. It is ideal as a personal escape device which can be used in emergency situations occurring in homes, office or apartment buildings, schools, hospitals, plant facilities and hotels.

FEATURES: Hood made from flame-retardant, self-extinguishing PVC material. Bright orange hood with high visibility and excellent reflective properties. One universal size. Can be worn with glasses, long hair and beards. Large visor treated with anti-misting agent provides wide range of vision for quick escape. Elastic collar makes hood easy to don and adjust. Comfortable, soft, inner mask allows wearer to breath normally through nose or mouth, Perfect for frequent travelers.

Parat C Smoke Hood P/N 13-04232.....
 Parat C Wall Holder P/N 13-06642.....

PEACE OF MIND SMOKE HOODS



Peace of Mind hoods are emergency respiratory aids that give you the necessary protection to evacuate any area where toxic fumes or smoke could indispose a victim. Also provides protection for eyes, hair, & free against flames, toxic fumes, dust, and sparks. In their vacuum-sealed package, the Peace of Mind hoods are lightweight (3.5 oz) and compact (7.5" x 4.5" x 0.75"). In a few, fast, easy steps, you can slip on the hood and evacuate. Assures peripheral vision, hands free usage & unimpeded communication. You can hear, see,

and talk while wearing the Peace of Mind hood. Its use of filters instead of a mouthpiece and/or breathing apparatus makes Peace of Mind much easier to use than other devices: Just pull it over your head and evacuate. Excellent for use in general aviation aircraft as well as for travel on commercial airlines. The transparent wall case holds two hoods and two light sticks for use in home or office. The 6-inch light stick diffuses 30 minutes of intense light without heat or flame. Non-toxic and easy to use.

P/N 13-02731

COMFORT MAX INFLATABLE LIFE-VEST

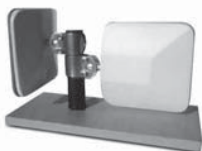


Features: •USCG approved for persons at least 16 years of age weighing 80 lbs. and above with a chest size between 30" and 52" •Dual waist belt stainless steel adjusters. Provides for easy adjustment with both hands and a more custom fit •Exterior inflation system access flap. Allows for clear, direct access to the CO2 cylinder for rearming. CO2 cylinder

can be replaced without opening and unfolding the entire PFD •Waist strap and back strap attachment points fully connected and reinforced from inside for added strength •Heavy duty 420 denier nylon packcloth outer cover •Twin 2" wide back straps for comfort and security •Comfortable neck. The neck area has no Velcro or edge binding to cause chafing or abrasion for all-day comfort .

Navy P/N 13-04372.....
 Red P/N 13-04373.....

SMILEVIEW MIRROR™



With the introduction of the SmileView Mirror™, a major drawback of high wing tandem seat aircraft has been solved! Even with an intercom, in flight communication has been lacking. Facial expressions can say so much more than just words over an intercom. Instructors, Young Eagle Pilots or anyone flying with a friend need to see the face of their

passenger to gauge what they are feeling. The SmileView Mirror™ has a 4" x 4" acrylic mirror that mounts securely to avoid vibration, giving a great view. Total weight is 7 oz. and it clamps onto the overhead structural tubing with a socket wrench. It's easily removed, if necessary. Which of the two versions you use depends on whether your aircraft has a short tube running from the V structure in the windscreen to the wing root or not. The American Champion family of aircraft has this short tube and uses the Rear Mount version. Cubs and many LSA use the End Mount as they have the V structure, alone.

Rear Mount..... P/N 13-05707.....
 Universal End Mount P/N 13-05708.....

SURVIVAL PRODUCTS LIFE RAFTS



Perfect for general aviation. Small and compact it fits in a lightweight valise 4" x 12" x 14" and weighs only 12 lbs. But don't be fooled by its size, price or weight. This raft will do the job for you under the most adverse condition. It provides a fresh water buoyancy of 190 lbs. per person and a deck area of 3.6' per person which exceeds all Govt. standards. Inflated, the raft 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, bailing bucket, hand inflation pump, and CO inflation system. Optional survival equipment shown below. 6-13 person raft is 5' x 12' x 14' and weighs 18 lbs. Available in non-TSO'd and TSO'd versions.

Non-TSO'd 4-6 Person Life Raft..... P/N 13-31610.....
 Non-TSO'd 6-13 Person Life Raft..... P/N 13-31660.....
 Non-TSO'd 4-6 Person Basic Raft w/o canopy .. P/N 13-31670.....
 TSO'd 4-6 Person Raft w/canopy only P/N 13-31680.....
 TSO'd 4-6 Person Raft w/91 equip..... P/N 13-31690.....
 TSO'd 4-6 Person Raft w/121 equip..... P/N 13-31700.....
 TSO'd 4-6 Person Raft w/135 equip..... P/N 13-31710.....
 Non-TSO'd 8-12 Person Basic Raft w/o canopy P/N 13-31715.....
 TSO'd 8-12 Person Raft w/canopy only P/N 13-31725.....
 TSO'd 8-12 Person Raft w/91 equip..... P/N 13-31735.....
 TSO'd 8-12 Person Raft w/121 equip..... P/N 13-31745.....
 TSO'd 8-12 Person Raft w/135 equip..... P/N 13-31755.....
 TSO raft with FAR91 kit 6M..... P/N 13-05861.....

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.....
 Far 121 Emergency Kit..... P/N 13-31630.....
 Far 135 Emergency Kit..... P/N 13-31650.....

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 stowage easy in the smallest of spaces. Operation is easy. Just open the red flap on the valise and extend the painterline. Give a hard pull and the raft inflates automatically in less than 30 seconds. Coastal Compact Raft is not recommended for off-shore use.

Raft	Part No.	Price	With Canopy	Price
2	11-07471	.	---	---
4	11-07472	.	11-07473	.
6	11-07474	.	11-07475	.

AIRLINE TYPE LIFE VEST



This self inflating airline type life vest is inflated by a tug on the cord which releases carbon dioxide from a rechargeable cylinder, designed to keep the wearer upright even unconscious or incapacitated. Can be reinflated by blowing into a special mouth tube. Folds to 2.5"x 6.5" and weighs only 1.4 lbs. Flame resistant Urethane coated nylon for added durability. Meets TSO C13e for flights within 50 miles of land. Bright international yellow for easy identification. It fits adults & children. New surplus, overhauled, & certified. HAZMAT. Shelf Life: 2 Years.

P/N 13-31640

PS

MUSTANG SURVIVAL PRODUCTS

MUSTANG INFLATABLE LIFE PRESERVERS



CLASSIC INFLATABLE PFD (MANUAL ACTIVATION) - A perfect choice for any boater interested in a lightweight design with high mobility, the Mustang Survival MD3003 Classic Inflatable PFD can be easily worn over a t-shirt in warm weather or over a jacket in colder conditions. The simple construction makes it easy to wear and maintain, the durable nylon shell makes it suitable for a variety of activities and the inflated cell features a safety whistle and SOLAS reflective tape for high visibility.
P/N 13-06382 (RED).....
P/N 13-06371 (BLUE).....



INFLATABLE BELT PACK PFD - A perfect choice for any boater interested in a lightweight design with high mobility, the Mustang Survival MD3003 Classic Inflatable PFD can be easily worn over a t-shirt in warm weather or over a jacket in colder conditions. The simple construction makes it easy to wear and maintain, the durable nylon shell makes it suitable for a variety of activities and the inflated cell features a safety whistle and SOLAS reflective tape for high visibility.
P/N 13-06372.....



DELUXE INFLATABLE PFD (MANUAL ACTIVATION) - The Deluxe Inflatable PFDs combine the advanced safety of inflatable technology with product enhancements such as comfort-improvement features and a safety inspection window to easily tell users if the inflator is ready for use. The Velcro(TM) closure makes it easy to wear and maintain while closing to the outside to reduce chafing around the neck and chest; the neoprene Comfort Collar(TM) eliminates neck irritation. Made for recreational enthusiasts and professionals alike, the MD3085 sports a manual inflation system and is lightweight and close-fitting to ensure it doesn't interfere with daily activities.
P/N 13-06373 (BLUE).....
P/N 13-06381 (RED).....



TWIN CHAMBER AVIATION PASSENGER LIFE PRESERVER - The MD1127 Twin Chamber Inflatable is a constant wear life jacket that provides flotation protection for aircrew flying over water in the event of emergency landings. The MD1127 features an inflatable cell that is comprised of two independent chambers, separated by a fully integrated floating baffle system. This provides for an orally inflated reserve chamber in the event that the primary chamber becomes damaged. Federal Aviation Administration (FAA) approved, the MD1127 is lightweight and designed for constant wear and comfort. The unit is manually inflated and delivers 37lbs of buoyancy and is made with a fire-resistant cover.
P/N 13-06379.....



MD3085/MD3087 RE-ARM KIT - The Manual Inflatable Re-Arm Kit contains everything necessary to re-arm your Mustang Survival Manual Inflatable PFDs after deployment. Contains: one 33gram CO2 cylinder, one re-arming instruction manual.
For model numbers: MD3085 - Deluxe PFDs 3F Manual - USA, MD3087 - Deluxe PFDs 3F Manual with Harness - USA
MD3051 - Deluxe PFDs 3F Manual - Canada
MD3052 - Deluxe PFDs 3F Manual with Harness - Canada
Use only Mustang Survival re-arm kits. Use of other re-arm kits may result in improper operation or failure to operate and will void the product's warranty.
P/N 13-06374.....



MANUAL INFLATABLE RE-ARM KIT: MA7170 - The Manual Inflatable Re-Arm Kit contains everything necessary to re-arm your Mustang Manual Inflatables after deployment. Contains: one 33gram CO2 cylinder, one green inflator pin, one re-arming instruction manual.
For model numbers: MD1166, MD3000, MD3003, MD3004, MD3020, MD3025, MD3091 Use only Mustang Survival re-arm kits. Use of other re-arm kits may result in improper operation or failure to operate and will void the product's warranty.
P/N 13-06375.....

CLOSED CELL NEOPRENE HOOD

BREATHABLE CONSTANT WEAR AVIATION COVERALL

The MA7348 Closed Cell Neoprene Hood offers increased protection against the elements when worn with Mustang Survival anti-exposure gear. Designed for easy integration with the MSD900, MSD901, MSD585, MAC200 and MAC300, the hood provides exceptional head and neck insulation and includes a lanyard to tether hood to suit, an adjustable mouth guard for protection from spray and a velcro attachment point for an emergency light. Sizes: N/A or Universal Colors: RED
P/N 13-06380.....



WORK SUITS

CONSTANT WEAR AVIATION COVERALL

The MAC10 is a close fitting, anti-exposure suit for pilots and passengers flying over marine environments. Designed to replace multiple garments used to protect aircrew from individual operational hazards, the integrated three layer suit offers protection from fire and its radiant heat, cold exposure, cold water immersion and drowning. A durable, flame resistant Nomex® anti-static outer layer provides protection for the inherently buoyant, thermal protective wetsuit. An inner layer of Nomex® provides further fire protection and comfort. Even after being significantly marred by fire or puncture, the suit maintains its flotation and hypothermia protection. Rugged leather abrasion panels are integrated into the knees and seat offering protection from petroleum, fuel oils and soiling. Multiple pockets provide storage for notepads, pens and survival equipment. An insulated thermal protective hood, stored in the right leg pocket, minimizes heat loss and provides additional fire protection for the head. The MSF300 comes ready to wear with included universally sized dry socks, trim to fit wrist seals and CCST™ adjustable neck seal. Sizes: 13, 10, 7, 4, 1, 15, 12, 9, 6, 3, 14, 11, 8, 5, 2, 12A, 9A
Colors: ORANGE, ROYAL BLUE, SAGE GREEN
P/N 13-06378.....



BREATHABLE CONSTANT WEAR AVIATION COVERALL

The MAC100 is a breathable flight coverall that provides anti-exposure protection without sacrificing comfort during prolonged missions. Engineered for maximum mobility during marine aircraft operations, this three layer integrated suit provides protection against fire, radiant heat, cold weather, cold-water immersion and drowning. The breathable foam liner features a moisture permeable membrane that allows excess moisture to escape while providing a thermal barrier against the dangers of outside elements. Durable, flame-resistant Nomex aramid, anti-static fabric provides external protection for the inherently buoyant, flame resistant, thermally protective, integral wetsuit. Even after being significantly marred by fire or puncture, the suit maintains its flotation and hypothermia protection. Rugged leather abrasion panels are integrated into the knees and seat offering protection from petroleum, fuel oils and soiling. Multiple pockets provide storage for notepads, pens and survival equipment. An insulated thermal protective hood and inflatable mitts are stored in the ankle pockets. Sizes: 7, 6, 5, 4, 15, 14, 13, 12A, 12, 11, 10, 9A, 9, 8, 3, 2, 1 Colors: ORANGE, ROYAL BLUE, SAGE GREEN
P/N 13-06377.....



AVIATION DRY SUIT

CONSTANT WEAR AVIATION DRY SUIT SYSTEM (2 LAYER)

The MSF300 is a two-layer Aircrew Dry Suit that combines the performance of the 3 layer MAC300 into two layers allowing greater mobility with reduced bulk and lower thermal burden. The outer shell uses a blended GORE-TEX®/NOMEX® fabric that is waterproof, breathable, flame-retardant and anti-static. High-wear areas are strategically reinforced to enhance the suit's durability and prevent abrasion damage that could compromise the suit's integrity. The breathable thermal liner provides both insulation and emergency flotation and features Mustang's aerated closed-cell foam quilted with a wicking fabric that pulls excess moisture away from the body. An adjustable neck seal using Mustang's patented Closed Comfort System (CCS™) can be worn loose to provide comfort out of the water and can quickly be drawn tight to keep the water out and trim to fit neoprene wrist seals provide water-tight integrity. The thermal liner can be easily removed from the outer shell to reduce thermal protection where not operationally required. An ergonomically designed rear entry allows for self donning and doffing. Integral pockets are designed for a variety of uses and facilitate access even when wearing a survival vest over the suit. The MSF300 comes ready to wear with included universally sized dry socks, trim to fit wrist seals and CCST™ adjustable neck seal. Sizes: XXL, XXXL, M, S, SX, L, XL Colors: ORANGE, SAGE GREEN
P/N 13-06376.....



PS

SURVIVAL KITS - FIRST AID KITS

TWO-MAN V.I.P. SURVIVAL PACK



It's staggering just how much useful equipment comes out of this 10" h x 11" w x 4" d backpack. Everything arranged logically and available the way you'd want it. Organized into 6 major divisions: medical/first aid, food & water, shelter & protection, fire & cooking, signals & lights, & "emergency devices." Wt: 20 lbs P/N 9217

NYLON CASE FIRST AID KITS



Be sure to carry a first aid kit on all flights, particularly over desolate terrain.

Model A: First Aid Kit - Packed in a nylon case for easy storage. The same type used on commercial air carries with contents in smaller quantities. Ideal for general aviation. Includes all basic necessities in a compact lightweight package. P/N 13-02944

MODEL B: FIRST AID KIT - In addition to all of the first aid products in the Model A kit, Model B also includes a strobe light to aid searches in locating downed aircraft and survival blanket. (Battery not included). P/N 13-02945

MOTION EAZE



Motion Eaze is the most effective motion sickness treatment on the market today. 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. Relief arrives in minutes and lasts for hours. It's perfect

for children that have trouble taking pills. Motion Eaze is safe, having no known side effects. P/N 13-02732

ACUPRESSURE WRIST BAND



Fast, effective motion sickness control without drugs, drowsiness, or other side effects. Can be used by adults or children. Exerts a carefully-controlled pressure on acupressure point of both wrists. Takes 2 to 5 minutes to become effective. Used successfully by physicians & the military. P/N 9411

MOTION SICKNESS RELIEF BAND



Take the ReliefBand® Medical Device along to help relieve that awful feeling of nausea caused by motion sickness. It's drug-free, non-invasive, comfortable to wear and easy-to-use. Worn similar to a sports watch, but placed on the underside of your wrist, the ReliefBand® Medical Device works using gentle electronic signals to stimulate nerves in the wrist. A tingling sensation lets you know the ReliefBand® Medical

Device is working. This helps normalize stomach rhythm, helping to relieve nausea. P/N 13-05700

SIC-SAC™



Use these for air sickness emergencies. Moisture proof and tear resistant even under extreme temperature changes. 10 sacks, individually packaged, each with attached tie band. Pack of 10 P/N 9296

PUMA METHOD FOR PREVENTION OF MOTION SICKNESS



The Puma Method is 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. The Puma Method is unique in that it uses the body's own mechanism to actually master motion sickness, so there is never a need for drugs, devices or herbs. This means no unexpected or unpleasant side effects. The mild head, neck and upper body exercises take only about 15 minutes a day to do. DVD P/N 13-03675

VHS P/N 13-03676

ACR SIGNAL MIRROR



Sighted signaling mirror with float and whistle. Designed to provide optimum sighting "spot" with holographic red dot viewing window. When target image, mirror & sun are in proper alignment, red dot on target ensures mirror reflection is on target. Telescope quality second surface reflective mirror is bright, provides focused image. Buoyant

float for easy recovery if dropped overboard. Patented whistle (meets USCG) for audible alerting in low visibility conditions. Signal Mirror has lanyard for securing to person or liferaft. Size: 4.25x2.75x0.19 in. (10.8x7x0.5cm); Wt: 1.8 oz (51 g) P/N 13-03177

SURVIVAL BLANKET



Often called the "space blanket." NASA thought of everything when they came up with this metal-coated nylon design. Waterproof and windproof, it retains 80% of body heat, it's colored to be seen from more than 4 miles away (although it measures just 4' x 7'), it's radar-reflective, and it folds down into a water-proof pouch 8.5"x9"; wt: 10 oz. P/N 9145

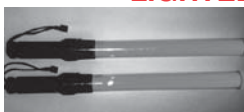
LAND/SHARK INSTANT SURVIVAL SHELTER LS-1300



Stored in its water, vapor and grease-proof vacuum sealed pouch, it measures only 6" x 8" x 1" and weighs a mere 18 oz. (0.5 kg.). When needed, it opens to a windproof, waterproof, heat-retaining roomy 36" x 84" (91.4 cm x 213.4 cm) thermal cocoon that provides full

body coverage, even over heavy outerwear and boots. It then protects you from exposure and helps you maintain a life-sustaining core body temperature until help arrives. In the open water, the waterproof bag serves to slow the drain of vital body heat and provides protection from chilling sea spray and breaking waves. The aluminumized (International Orange) material is radar reflective for search aircraft and high speed vessels moving at night. In warmer waters where the sun is a danger to exposed skin above the water, the bag can be configured to provide for shade and ventilation. P/N 13-05691

LIGHTED LINEMAN WANDS



• Used by US Air force • Up to 400 hours operation • 21" long • Waterproof • Uses 2 D batteries (not incl.) • Fluorescent coated diffuser enhances red light output. P/N 13-08959

PELTOR FIRST AID KIT



This 90 piece first aid kit from Peltor was designed for aviation use and includes bandages, iodine pads, butterfly wound closures, alcohol prep pads, adhesive pads, sting relief pads, latex gloves, eye pads, tape, splint, eyewash, tweezers, scissors, cold pack, first aid handbook, and more. In plastic case with gasket. P/N 13-94535

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, matches etc. P/N 9641

3M™ ULTRATHON INSECT REPELLANT



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 oz. Aerosol P/N 09-01724

SURVIVAL KITS – FIRST AID KITS

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.....

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/incentive

item, corporate gift, or employee award.

P/N 13-03606.....

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.....

2-PERSON EMERGENCY SURVIVAL KIT



This deluxe 2 PERSON EMERGENCY SURVIVOR KIT could mean the difference between disaster and survival in an emergency situation. It contains a complete 3-day supply of food, water, medical & other emergency supplies for 2 people.

Over 60 Emergency Items! • Emergency Drinking Water Metallic Sachets • 2400 Calorie Emergency Food Rations • Instant

Cold Pack • Medical Kit • Disposable Flashlights • Thermal Blankets • AM/FM Portable Radio w/ Batteries • The Wallace Emergency Guidebook

P/N 13-03608.....

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.....

SNOW BROOM



The SNO BRuM offers pilots a way to quickly sweep snow off aircraft wings and away from the user. Great for high wing aircraft. The durable molded polyethylene foam head has been lab-tested for non-abrasiveness, freeze resistance, center load stress and durability to achieve the highest ratings in all tests. The oversized head (6" x 17") is the largest snow remover available. The high-impact plastic face plate is recessed into the foam to prevent contact with the aircraft. The aluminum telescoping handle has special cold resistant nylon threads and extends from 27" to 46". Also great for cars, trucks, SUV's, and awnings. P/N13-04055.....

FIRST AID 'N TRAVEL KIT



Finally—a compact, complete travel unit for the person on the go! This kit fits perfectly in a purse, briefcase, or glove compartment, and is ready when you need it in first aid situations. This kit is very special because it's the only one of its kind to include a 4 oz. sterile water packet with a five-year shelf life. Ask us about using this kit for fundraisers or corporate promotions! We can customize the kit to include your company's logo.

P/N 13-03605.....

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, flexible, space-age material, and retains up to 90% body heat in cold weather. It even deflects heat in hot climates and can be used to offset hypothermic reactions. The Cocoon is waterproof, reusable, and portable. Keep several on hand for the unexpected! P/N 13-03603.....

EMERGENCY FOOD RATIONS



MAINSTAY™ FOOD PACKAGE - Mainstay™ has emerged as a food product unlike any other. Before it came into the picture, emergency food bars were only being made for short-term use. Survivor Industries changed all that when it created a great-tasting, non-thirst provoking product with an extraordinary five-year shelf life. Mainstay™ is specially formulated for land-based high stress situations. Each package contains 9 pre-measured 400 calorie meals, which allows a person to get their full nutrition in a challenging situation. Mainstay™ is Kosher and it meets the dictates for Halal.

Mainstay™ 3600 P/N 13-03599
Mainstay™ 2400 P/N 13-03601
Mainstay™ 1200 P/N 13-03602

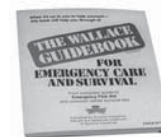
EMERGENCY WATER PACKETS



Mainstay™ Water Packets - All water is not created equal! Here at Survivor Industries we have spent years perfecting our Mainstay™ Water Packets. The final result is a portable product with a 5-year shelf life. Other Key Benefits: • U.S. Coast Guard approved • No Oxygen Transfer (In other words, no chance of bacterial contamination) • Pre-Measured Packets make the water easy to dispense, and potential for loss is minimized. If a packet is destroyed, only 4.224 ounces (125 ml) would be lost. • Easy to Transport - just 18 lbs. (8.17 kg) per case of 60 packets. • No special storage required - it can withstand temperatures from (-40°F to 210°F) (-40°C to 99°C) • Very Low Cost. • No Cups Needed!

P/N 13-03598.....

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.....

CANOPY BREAKER TOOL



The Piranha Canopy Breaker Tool is a robust device with a sharp edge on one end. The tool is secured inside the aircraft cockpit to a frame member or seat frame, within easy reach of the pilot. A plastic cover is over the blade end for tactile and visual identification and protects the pilot from the blade end. In an emergency situation the pilot locates the Canopy Breaker Tool, removes the safety pin / lanyard which secures the tool to the aircraft and the red cap. The pilot firmly grasps the tool with one hand and places the other hand underneath the tool, then positions the blade parallel to the canopy side frame, near the frame and uses very strong upward thrusts aiming one of the blade points at the Plexiglas. The unit is made from industrial strength aluminum, weights 10 oz and the lanyard has a 35# break strength.

P/N 12-02269.....

PS

SURVIVAL KITS

Crashkit Personal and Professional Flight Line Series aviation survival kits are quickly becoming an industry leader in top quality aviation survival kits. Numerous kits are available to suit you piloting and survival needs.

CRASHKIT ALPHA SURVIVAL KIT



The 'Alpha' personal aviation survival kit is designed for the pilot with general knowledge of survival techniques. This kit should only be purchased by experienced and skilled individuals. This kit includes 24 of the most essential items packed into the smallest kit practical. Weighing in at only 1.54lbs, the general kit is small enough to fit in any flight bag, purse, glove compartment, map pouch or cargo pocket.

Every item included in this kit has been thoroughly tested and approved to insure it performs flawlessly when needed (we've even sharpened the knife!) and meets or exceeds Transport Canada's Canadian Aviation

Regulations to facilitate survival and rescue. Dimensions : 6.37" x 4.75" x 2.12"(16.9 x 12.06 x 5.4 cm) Weight : 1.54 lbs Contents : 24 items covering food, fire, water, shelter, and first aid Case : Pelican 1020 case - yellow - tough, watertight, polycarbonate case Optional Acc's : Parachute deployment system; Aircraft Mounting Bracket Warranty : Lifetime P/N 13-04684

CRASHKIT BRAVO SURVIVAL KIT



The 'Bravo' personal aviation survival kit is designed for the pilot with some basic knowledge of survival techniques. Containing 51 of the most essential items, this kit remains small and lightweight. At only 2.20lbs, it is compact enough to fit in any flight bag, purse, glove compartment, map pouch or cargo pocket.

Each item in this kit has been thoroughly tested and approved to ensure flawless performance when needed, and meets or exceeds Transport Canada's Canadian Aviation Regulations to facilitate survival and rescue. Dimensions : 7.50" x 5.06" x 3.13"(19.05 x 12.86 x 7.94 cm) Weight : 2.20 lbs Contents : 51 items covering food, fire, water, shelter, and first aid Case : Pelican 1050

case - tough, watertight, polycarbonate case Optional Acc's : Parachute deployment system; Aircraft Mounting Bracket. Warranty : Lifetime P/N 13-04685

CRASHKIT CHARLIE SURVIVAL KIT



The 'Charlie' personal aviation survival kit is designed for the pilot with minimal knowledge of survival techniques. 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. Dimensions : 8.12" x 6.56" x 3.56"(20.9 x 16.6 x 9.0 cm) Weight : 2.81 lbs Contents : 71 items covering food, fire, water, shelter, and first aid Case : Pelican 1120 case - tough, watertight, polycarbonate case Optional Acc's : Parachute deployment system; Aircraft Mounting Bracket Warranty : Lifetime.

P/N 13-04686

CRASHKIT 2-7 SURVIVAL KIT



Designed for use in typical GA light aircraft, specifically those used in flight schools or clubs, this crashkit has the materials necessary to sustain two people for seven days in the event of a crash. Redundancy in the items within the kit allows for multiple options for food, fire, water and shelter; for example, the kit contains four items capable of starting a fire. Containing 165 of the most essential items needed in a survival situation, this kit is packaged in a Pelican 1200 case, and remains lightweight and compact for easy transport and storage on a craft. 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 : 10.63" x 9.69" x 4.88" (20.9 x 16.6 x 9.0 cm) Weight : 7.15 lbs Contents : 165 items covering food, fire, water, shelter, and first aid Case : Pelican 1200 case - tough, watertight, polycarbonate case Kit Coverage: 2 people for 7 days (or longer dependent on situation) Optional Acc's : Parachute deployment system; Aircraft Mounting Bracket Warranty : Lifetime.

P/N 13-04690

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 11.62" x 6.00" (34 x 29.5 x 15.2 cm) Weight : 17.55lbs Contents : 232 items covering food, fire, water, shelter, and first aid 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; aircraft mounting bracket Warranty : Lifetime. P/N 13-04691

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; aircraft mounting bracket Warranty : Lifetime.

P/N 13-04692

MILITARY PILOT SURVIVAL KITS

SURVIVAL TOOL KIT - Total weight is 3 lbs. Custom designed, adjustable carrier pouch holds equipment. Can be worn around waist, used as tourniquet or with wooden dowels as splint. Dowels help with fire-starting. Blunt-tipped Meyerco Rescue 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/scrapper, crate opener, wire bender, stripper and scraper, can 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.

PN 13-05676



MILITARY PILOT SURVIVAL KIT - Designed by Oregon Aero for the U.S. Navy. The durable carrier pouch is hand sewn by Oregon Aero with pockets for each item. Knife, fire starter and flashlight 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 • Nexus™ 26DNL Compass • LED Task Light™ Flashlight • Sunscreen Packets • Vacuum sealed Balaclava • Strike Force™ Fire Starting System. Custom designed Multi-Tool includes pliers, wire cutter, file, awl, serrated sheep's foot blade, knife/fish hook sharpener, assorted screwdrivers.

PN 13-05675

EAR PLUGS - PORTABLE RESTROOMS

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



HORIZONTAL BRACKET - Black molded plastic bracket for underseat installation. P/N 13-04169



VERTICAL BRACKET - Black molded plastic bracket for vertical installation. P/N 13-04170



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

Horn and Valve Assembly.....P/N 13-04167

Tee.....P/N 13-04172



AIRSOFT REUSABLE EARPLUGS

AIRSoft earplugs feature a shell of soft attenuating material around a pocket of air that is the highest rated reusable earplug available with a noise reduction rating NRR 27..... P/N 13-02194



ULTRA FIT E-A-R PLUGS

You get the best noise protection possible with a premolded ear plug. Triple flange design gives you a perfect fit and a noise reduction rating of 27 db. Conversations can still be heard while harmful noises are reduced to a safe level. Comes with carrying case and chain for hanging in a convenient place. One Pair.....P/N 9821



E-A-R NOISE FILTERS

Soft polymer foam fits inside ear canal and expands to block sound and filter out damaging noises. Provides up to 35 db noise reduction. Washable and reusable. P/N 9134 /pair



PELTOR 30 CALIBER EAR PLUGS (CASE OF 10)

The unique shape of the Peltor 30 Caliber Plugs is concave at the base to help wearers achieve easy, deep insertions for optimum protection. The Easy-Grip Handles on each plug allows for quick and easy removal. The Peltor 30 Caliber plugs are packaged in a 10 pair ammo case like actual bullets. P/N 13-04287



LITTLE JOHN

Positively the least expensive accessory you can buy to extend your range. One authenticated case reports a Piper Malibu's range extended by 500 miles. Durable plastic, won't crack under any normal handling and temperature conditions. A tight screw-on cap makes it spill proof. Standard issue in hospitals for years.

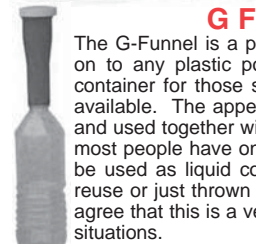
P/N 9741



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



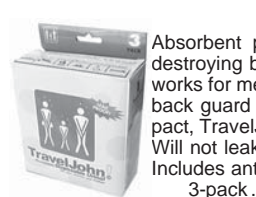
G FUNNEL ADAPTER

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. The appeal to this adapter is that it can be attached and used together with any sized plastic pop or water bottle that most people have on hand. The plastic pop or water bottle is to be used as liquid container and then can later be emptied for reuse or just thrown in the trash when available. We think you'll agree that this is a very useful relief device for those emergency situations. P/N 13-01974



RESTOP DISPOSABLE URINAL

The anatomically designed Restop is the disposable urine bag that combines a unique blend of polymers, enzymes, & deodorizer to turn urine into an odorless gel on contact. The funnel design prevents accidental spills. Restop is sanitary, non-toxic, spillproof & odorless, safe and convenient, trash container safe, and small enough to fit in pocket. Easy to use by men & women. 2 pack. P/N 13-00794



TRAVEL JOHN

Absorbent pouch turns urine into gel instantly while destroying bacteria and odor. Specially designed collar works for men women and children; spill guard prevents back guard during use. Convenient, sanitary and compact, TravelJohn is easy to use while sitting or standing. Will not leak or spill, even if punctured. Holds 28 fl. oz. Includes antiseptic hand wipe.

3-pack.....P/N 13-00894

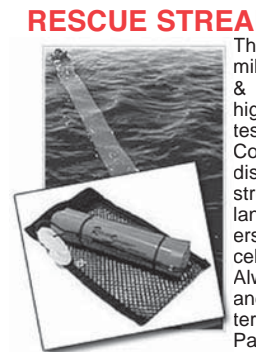


IPEE - DISPOSABLE URINE COLLECTION DEVICE

The SuperSlab 100® device is biodegrade and disposable urine collection device designed for men & women. Every SuperSlab 100 device includes a female adapter which enables women to urinate easily while standing. The SuperSlab 100® converts the liquid urine into a solid in less than one minute with an absorbent. The absorbent ITBX5®, is a biodegradable, 100% organic compound. After the SuperSlab 100® transforms the liquid into a solid, the device is easily stored for proper disposal at a later time.

P/N 13-05578

6 Pack..... P/N 13-05577



RESCUE STREAMER™ DISTRESS SIGNAL

This bright orange streamer, visible from 1.3 miles away at 1,500 ft. altitude, leads Search & Rescue teams right to you. The patented high-strength polyethylene Streamer design, tested and used by the U.S. Military and Coast Guard, is marked with the international distress symbol. Features sealed air-filled struts that keep it afloat on water and open on land to pinpoint your exact location to rescuers. RescueStreamers™ start at the size of a cell phone when stored and unroll in seconds. Always ready for use anywhere; land, water, and snow. Does not require chemicals, batteries, or electronics to signal continuously. Patented design approved for US Military & Coast Guard use. Furnished in a mesh bag

for storage in a 1-2 person raft. Weight: 6.7 oz. Display size: 6" x 40 ft; Stored size: 3.5" x 7.5" P/N 13-03767/ea.



CO DETECTORS

CO GUARDIAN CARBON MONOXIDE DETECTORS

CO Guardian uses a patent-pending technology to compensate for changes in an airplane due to temperature and humidity. The detector has three (3) warning systems: audio, digital, and numeric warnings for escalating or dangerous levels of carbon monoxide in the cabin. CO Guardian can also be used in vehicles, motor homes, emergency vehicles, etc., as it plugs into any 12/24V adapter. All models have 3 year Limited Warranty.



MODEL AERO-152A - Features: • Max power consumption = Less than 1W • Weight: approx. 2.5 oz • Works from 10V to 30V sys. • Product shielded to prevent RMI (Radio Magnetic Interference) with Aircraft systems • Audible alarm with varying pitch at 85DB • Digital CO Level Readout • Front panel lighting (Green, Amber & Red) • CO Sensor tested to 13,500ft • Built in Temperature compensating circuit • Built in Humidity compensating circuit. P/N 13-01639



MODEL AERO-152WD - Features: • Max power consumption = Less than 1W • Wt: approx. 2.5 oz • Works from 10V to 30V sys. • Product shielded to prevent RMI (Radio Magnetic Interference) with Aircraft systems • Audible alarm with varying pitch depending at 85DB • Front panel lighting (Green, Amber and Red) • CO Sensor tested to 13,500 ft • Built in temperature compensating circuit • Built in Humidity compensating circuit. P/N 13-01640



MODEL AERO-353 - CO Guardian upgrades its best selling model 352 to the 353. Model 353 has a brand new sensor that can detect CO as low as 1 Part Per Million (PPM) to 999 PPM. This unit now comes standard for interfacing CO levels display on the G1000, GNS480 and other Multi- function displays. The 353 now has a built in pressure sensor that compensates for altitude. These units can be mounted on the panel or remotely. The 353P now has a built in pressure sensor which compensates for altitude up to 25,000 feet. Similar to hypoxia, this becomes more critical as altitude increases and the body's tolerance to CO decreases. 353P/N 13-01642



MODEL AERO 552 - This unit is a replacement for the 2.25" clock and provides the latest CO protection that displays 30 to 999 ppm in the cockpit, as well as aircraft high and low voltage alarms, pressure density altitude readout for takeoff. Cabin altitude alerts to remind you to go on oxygen. An RS232 output that allows the parameters for CO level, cabin pressure and temperature to be displayed on the UPS AT CNX80. P/N 13-02569



DIGITAL CO2 DETECTOR

• Super large 3-1/2 digital LCD display with backlight • Pocket-sized and easy to use • Fast sampling time • Max hold and data hold • Audible beep from 35 to 200 ppm • Continuous beep after 200 ppm • Auto power off 15 min. inactive • Protective rubber boot Specifications: • Range: 0 to 1,000 ppm • Resolution: 1 ppm • Accuracy: 5% or 10 ppm • Power source: (1) 9 volt battery • Dimensions: 6.3" x 2.2" x 1.6" P/N 12-01896

DIGITAL CO2 DETECTOR



The extremely affordable DCO 1001 has a measuring range of 0-1000 ppm and comes complete with a soft case, a wrist strap, 3 "AAA" batteries and an instruction manual. Features: • Adjustable co warning level • LCD dual digital display • Bright backlight • self test • Low battery indication • °F/°C selectable • Auto power off • Auto zero • Co range: 0~999ppm • Resolution: 1ppm • Battery life is 250 hours when the backlight is off and 35 hours with the backlight on. P/N 12-01895

MODEL 300 POCKET CO



The Model 300, with LOUD buzzer, vibrator, and LED alarms, the most versatile one-ounce full feature carbon monoxide dosimeter on the market today is now the only aviation carbon monoxide detector a pilot can attach to their key chain for travel, home, and a multitude of other life saving uses. Pocket CO Model 300 features nanotechnology enabled low-level carbon monoxide readings displayed every 5 seconds from 0 to 500ppm. Weighing less than one ounce, the wearable key-fob sized dosimeter calculates TWA, TE, MAX ppm, and time of max reading. Complete with replaceable battery, two-year instrument and sensor warranty, Pocket CO 300 provides maintenance-free protection in a durable, weather-resistant, single button package. P/N 13-06639

300 Pocket CO P/N 13-06639

Replacement/Spare Battery P/N 13-06640

HONEYWELL LUMIDOR XT, XP



THE LUMIDOR MINIMAX XT - Personal detector is able to monitor a single as from a choice of oxygen, carbon monoxide and hydrogen sulfide gases. Utilizing patented Surecell™ and Reflex technology, the Minimax XT achieves 24 months continuous, maintenance free operation. Audible, visual and vibrating alarms are standard. New Real-Time display versions available. All Lumidor Minimax XT instruments are supplied with a case clip, test adaptor and manual. An optional interactive product guide CD is available. Shelf life is 12 months on CO and H2S versions. IP67 water ingress protection.

Model	Description	PN	Price
Minimax-XT02	UL/cUL Certified Minimax XT O2 Kit with vibrating alarm - Oxygen	11-05750	.
Minimax-XTCO	UL/cUL Certified Minimax XT CO Kit with vibrating alarm	11-05751	.
Minimax-XTCO25	UL/cUL Certified Minimax XT CO Kit with vibrating alarm; set to Alarm1 25ppm and Alarm2 100ppm for California	11-05752	.
Minimax-XTH2S	UL/cUL Certified Minimax XT H2S Kit with vibrating alarm	11-05753	.
Minimax-XTRT02	UL/cUL, ATEX/CENELEC Certified MiniMAX XT O2 Kit with vibrating alarm and Real Time Display	11-05754	.
Minimax-XTRTCO	UL/cUL, ATEX/CENELEC Certified MiniMAX XT CO Kit with vibrating alarm and Real Time Display	11-05755	.
Minimax-XTRTCO25	UL/cUL, ATEX/CENELEC Certified MiniMAX XT CO Kit with vibrating alarm and Real Time Display; set to Alarm1 25ppm and Alarm2	11-05756	.
Minimax-XTRH2S	UL/cUL, ATEX/CENELEC Certified MiniMAX XT H2S Kit with vibrating alarm and Real Time Display	11-05757	.

ACCESSORIES & SPARES FOR XT

Model	Description	PN	Price
Minimax-XT-01	Minimax XT Test Adaptor	11-05758	.
2566-0122	Minimax XT Printed Manual (English language only)*	11-05759	.
2567-0016	Minimax XT Hand Aspirator	11-05760	.
2302B0846	Ball Float	11-05761	.
2302B0847	1m (3') 4 Part Sampling Probe	11-05762	.
2566K0130	Minimax XT Crocodile Clip Kit	11-05763	.
Minimax-XT-03	Minimax XT Interactive Product Guide CD	11-05764	.

LUMIDOR MINIMAX XP - The Lumidor Minimax XP personal detector is able to monitor a single gas from a range of oxygen and toxic gases. Utilizing cell output delay compensation, in conjunction with patented sensor technology the Minimax XP ensure accuracy and reliability while providing a cost effective instrument. User flexibility is achieved with built-in menus, and the on/off operation of the instrument provides up to 3 years of battery life under typical use. All Lumidor Minimax XP instruments provide 2 levels of instantaneous alarm, STEL and TWA alarms, and have audible, visual and vibrating as standard. All Lumidor Minimax XP instruments are supplied with a case clip, test adaptor, manual and an optional interactive product guide CD is available. Designed to meet IP54 water ingress protection.

M e	PN	Price
Minimax-XP-O2	11-05766	.
Minimax-XP-CO	11-05767	.

LONG LIFE CARBON MONOXIDE DETECTOR



No longer do you have to replace that Carbon Monoxide Detector every 28 days, the new Quantum Eye Carbon monoxide detector offers a minimum 18 months of sensor life. P/N 09-35601

STANDARD CARBON MONOXIDE DETECTOR



Carbon monoxide is odorless and colorless, but this economical little stick-up pad gives you a visible warning if it's present in the cockpit (or car or garage). A little graying of the color spot means a little gas: if it turns black, the concentration is dangerous. Adhesive backed. Spot returns to normal color after being exposed to fresh air. P/N 09-35600

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, propane, fuel oil, wood, coal, and other fossil fuels. Dangerous levels of CO can be produced by internal combustion engines or from any poorly vented or improperly adjusted fuel-burning appliance. Exposure to CO may cause sickness, headaches, or even death. P/N 13-05755

WINDMETERS - WEATHER STATIONS

WINDSCRIBE HANDHELD WIND METER

WindScribe is a precise, handheld wind meter (anemometer). In addition to registering the current wind speed, the WindScribe also measures maximum headwind, maximum tailwind, a five-second average wind, and a running average wind. Speeds can be displayed in both U.S. and metric units, and the unit also records temperature - useful for figuring out whether fog may form soon - 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

WIND WARD WIND SPEED INDICATOR

ECONOMY MODEL - ACCURATE & COMPACT

A single scale eliminates the need to shift back and forth between two scales when wind conditions are variable or gusty. Conveniently calibrated in miles/hour, meters/second and Beaufort. Expanded in the lower wind speed range of 0-20 MPH (0-8.9 meters/sec). Slips easily into a shirt or coat pocket. Safety wrist strap gives added security in stronger winds, and stores out of the way in the folding handle. Constructed of high impact plastic and corrosion resistant metals. It comes with leather-like carrying case. No Batteries needed. P/N 13-18520

SKYWATCH GEOS 11 HANDHELD WEATHER STATION

With features never before found on a handheld weather instrument, the GEOS 11 was designed specifically for the demanding needs of many markets: Aviation; reading of the Flight Level, height, finesse, pressure, altitude, altitude variation, etc.. 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 Impeller: • rotates to protect impeller blades. Exposed Sensors for instant readings P/N 13-04757

SKYWATCH HANDHELD WIND METERS

Designed for consumer and professional use, the Xplorer does not include complicated and seldom-used features such as downloading and storing. Press one button, and instant readings are at your fingertips. Dimension: 3.5 x 1.5 x 0.75 in, 2 oz. (41 x 93 x 17 mm, 50 g) One button operation, EL Backlight Completely sealed; internal sensors, Weatherproof (can be submerged 6 feet), Replaceable Lithium battery (included and installed), Stainless steel back, Auto-off after one minute (can be disabled to remain on), Included lanyard One year warranty. Handheld Weather 1 P/N 13-04760 Handheld Weather 4 P/N 13-04762

WINDLING WIND METER

Most compact electronic anemometer available. Features: • Displays wind speed in MPH, Km/Hr, Knots, Met/Sec, and Ft/Sec • Displays Current Wind Speed • Displays Maximum Wind Speed • Features back light • Includes Replaceable Lithium Battery (CR2032) • Water Resistant to 3 feet (1 m) • Great gift item Specifications • Size: 3.6"H x 1.6"W x 0.6"D, 1.8 oz • Lithium battery • 4 year warranty on battery • Measuring range: 0 to 99.99 • Resolution: 0.1 units • Case: Rugged polycarbonate, waterproof to 10 feet • Precision: ±4% from 16° F to 122°F (10° to 50°C) P/N SKWIND

WEATHER WIZARD III WEATHER STATIONS

Includes all of the most requested features of a professional-quality weather station: inside and outside temperature, wind direction, wind speed, and wind chill. Highs and lows are maintained for most functions, and may be quickly viewed along with the time and date they occurred. Programmable alarms alert you to changes in weather conditions. Information may be displayed in U.S. or metric units of measure. Wind speed displayed in either mph, kph, kts, or meters/sec. Comes with mounting base Autoscan routine reviews all weather conditions, or enter your own scan selections. Compact size: 5.25"x5-7/8"x3" P/N 13-14010 Optional Rain Collector (0.1 mm) P/N 13-14035 Mounting Tripod P/N 13-04569 Call for special pricing!

SM-19 SKYMATE PLUS WIND METER

• Current, maximum windspeed • Average windspeed over 5, 10, or 13 seconds • Current temp & windchill • Relative Humidity & Dewpoint • Choose any measurement unit • Reads in tenths • Replaceable 400 hour lithium battery • Data Hold to freeze most recent display • Replaceable plastic impeller won't corrode • Comes with lanyard • Threaded for tripod mounting • Unique pocket-knife design to protect unit when not in use • Auto shutoff 20 minutes after last key is pressed • Water resistant housing High visibility case Floats P/N 13-01960 Carrying Case P/N 13-02202

SPEEDTECH INSTRUMENTS

SKYMASTER WEATHERMETER SM-28

This easy to use, pocket-size weather station features complete wind speed functions and includes a severe weather audio alarm. The relative humidity, barometer, and altimeter functions can be recalibrated, 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 • Severe Weather Audio Alarm • Temperature/Windchill/Heat Index. P/N 13-02957

SKYMATE WINDMETER

Convenient pocket-knife design, accuracy, features, and price make this the best value in handheld wind meters! It is water resistant, it floats, and it has a high visibility case. Average wind speed over 5, 10, or 13 seconds. Current temp & wind chill. Choose any measurement unit. Reads in tenths. Replaceable 400 hour lithium battery. Data lock feature. Replaceable plastic impeller won't corrode. Easy to read LCD. Threaded for tripod mounting. Unique pocket-knife design to protect unit when not in use. Water resistant to 3 ft. High visibility case. One year warranty. Features: • Windspeed • Temperature • Windchill • Water Resistant to 3 Feet. • Floats • Safety Yellow case P/N 13-00086

WM-100 WINDMATE 100

Current, Average (5,10,13 secs) Maximum wind speed all use a wind vane to ensure most accurate measurements. For long-range shooting, 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 water-resistant case • Comes with adjustable lanyard. Features: Current wind speed • Average wind speed (5, 10, 13 seconds) • Maximum wind speed Mph, Kt, Kp/h, BF, FPM, M/Sec. Wind vane assures you are on the wind's axis • Tripod fitting • Fits wind tunnel accessory • Rugged water-resistant case meets U.S. military specifications • Auto shutoff • Comes with adjustable lanyard P/N 13-04292

WM-200 WINDMATE 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 head/tail wind readings • Temperature • Windchill • Backlight Specifications: • Windspeed accuracy +/- 3% from .8-89Mph • Wind speed range to 135Mph • Digital compass/wind direction accuracy +/- 2° • Temp/Windchill accuracy +/- 1.8° F • Optional Units: Mph, km/h, kt, ft/min, m/s, BF (Beaufort) • F or C • Avg windspeed over 10 secs • Max windspeed 2 sec gust since power on • Auto shutdown • POWER: CR2032 replaceable Lithium battery (included) • Measures: 5.5" x 1.75" x .75" closed • Weighs 3.2oz with battery • 2-yr warranty P/N 13-04293

WM-300 WINDMATE 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. Humidity 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, ft/min, m/x, BF (Beaufort) • F or C • Avg wind speed over 10 secs • Max wind speed 2 sec gust since power on • Auto shutdown • POWER: CR2032 (400-Hr) replaceable Lithium battery (included) • Measures: 5.5" x 1.75" x .75" closed • Weighs 3.2 oz with battery • Comes with breakaway lanyard • 2-yr warranty. P/N 13-04294

WM-350 WINDMATE 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 points • Cross and head/tail wind readings • 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 • Altimeter 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" closed 9" x 1.75" x .75" open WEIGHS: 3.2 ounces with battery. P/N 13-05763

SKYMATE ACCESSORIES

Adjustable nylon case (fits all models) P/N 13-02202 Wind tunnel (maximize wind meter accuracy) P/N 13-02201 Speedtech Rail Mount (AP-15) P/N 13-02204 Speedtech Back Stay Mount (AP-16) P/N 13-02203

PS

WEATHER STATIONS – FLASHLIGHTS



WIRELESS VANTAGE PRO2 WEATHER STATION

Uses frequency hopping spread spectrum radio technology to transmit data wirelessly up to 1000' (300 m). Console/receiver, integrated sensor suite, and mounting hardware. Integrated sensor suite includes rain collector, temperature and humidity sensors, anemometer, 40' (12 m) anemometer cable, and solar panel. Sensor suite is solar powered. AC-power adapter included for console, or use with three C batteries (not included). Wireless range is up to 1000' outdoors, line of sight. Typical range through walls 200' to 400'. Add wireless repeaters for distances up to 1.7 miles.

Vantage Pro2 (U.S.) P/N 13-05532
 Vantage Pro2 Plus with UV & Solar Radiation .P/N 13-05586
 Mounting Tripod P/N 13-04569



MAGLITE LED FLASHLIGHTS

MAG-LED™ Technology known for their obsession with precision engineering, craftsmanship and commitment to perfection, was not satisfied with the performance of a "regular" LED as a usable light source. They set their sights on producing a light source that would not only incorporate longer battery life, but would also have the kind of durability, reliability, and performance Maglite® flashlights are known for. With an emphasis on uncompromising performance, MAG-LED™ Technology is the result of that quest.

- LED Mini Maglight 2-cell AA - Black P/N 13-04722
 LED Mini Maglight 2-cell AA, w/Holster - Grey Pewter P/N 13-04917
 LED Mini Maglight 3-cell AA - Black P/N 13-04723
 LED Mini Maglight 3-cell AA - Grey Pewter P/N 13-04879
 LED Maglight 2 Cell D hang pack- Black P/N 13-04724
 LED Maglight 2 Cell D hang pack- Grey Pewter P/N 13-04880
 LED Maglight 3 Cell D hang pack- Black P/N 13-04725
 LED Maglight 3 Cell D hang pack- Grey Pewter P/N 13-04881
 LED Maglight 4 Cell D hang pack- Black P/N 13-04726
 LED Maglight 4 Cell D hang pack- Grey Pewter P/N 13-04882

ACCESSORIES PACK - Includes: Pocket clip, lanyard wrist strap with key ring, anti-roll device, red, clear, and blue lenses. P/N 13-04727



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



MAGLITE FLASHLIGHTS

- Mini Maglight AA - Black..... P/N 13-04913
 Maglight 2 Cell D - Black P/N 13-04915
 Maglight 3 Cell D - Black P/N 13-04916

ASA LED FLIGHTLIGHT

This AirClassics™ LED Flightlight is durable, compact, and bright -- ideal for the flight bag where space and convenience are priority. The flashlight has both white and green bulbs, making this an effective tool for preflight, night flying and chart reading. ASA wings logo imprinted in silver. Typical battery life is a solid 10 hours. P/N 13-06426



THE ASHLIGHT



13-04347



13-04348



13-04349

The ASHLIGHT has been designed and tested by pilots. The super-bright red LED light provides the ultimate in hands-free cockpit lighting with a flip of the switch. The ASHLIGHT is designed with a stainless steel spring that duplicates the original ashtray clip for easy snap-in installation. The majority of aircraft manufacturers (Cessna, Beech, Bellanca, Grumman, Mooney, Piper, etc.) all used a standard ashtray opening of 1.5h x 2.125w or 1.6h x 4.7h side panel mounted ashtray. Smaller planes used the Standard Size while larger planes such as KingAir, Chiefitan, later model Barons and Bonanzas, etc. use the Large size. If your aircraft does not have an ashtray, the Visor Clip Model is an excellent alternative!

- Standard Ashlight P/N 13-04347
 Large 5" Ashlight P/N 13-04348
 Visor Ashlight..... P/N 13-04349

FLIGHTLIGHT™ - PILOT FLASHLIGHT



This AirClassics™ flashlight has both white and red lenses for preflight and night flying, extra Krypton bulb stored within, is water-tight, corrosion resistant, and features a clicking ON/OFF for maximum battery life. Focuses from spot to flood light. Black machined aluminum with ASA wings logo. Two AA batteries and PR-1 bulb included.

- Flashlight: P/N 13-01067
 Bulb: P/N 13-02320



FLIGHT LIGHT PEN

See what you write — even at night! Saves pilots from using an overhead light when writing in a low-light situation, and the green LED light will maintain a pilot's night vision — LED lasts a lifetime! The flashlight cap enables pilots to look for items nearby, serving as a temporary illuminant. The clip on the cap allows for easy storage. Includes 2 LED lights, and 2 button cell batteries. 5 1/4" x 3/4". P/N 13-01099



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.

Part No.	Description	Length Flex Shaft	Length Overall	Batt.	Bulb	Price
12-15005	Mini Pro	6"	11.5"	2-AAA	12100	
12-15150	Pro	15.75"	24"	3-AA	12110	
12-10250	Removable Shaft	9.5"	15.75"	2-AA	12100	

Part No.	Description	Dia	Bulb Life	Price
12-15020	12100 - Replacement Lamp	5/32"	4 Hours	
12-12110	12110- Krypton Lamp	5/32"	20 hours	

AVIATOR'S QUIQLITE



Extra Bright LED, available with Red, Green, White or Blue Light. Handy pocket clip and rotating arm. Rotating "light arm" allows you to place the light where you need it. Push-button On-Off switch with convenient 7 minute Auto-Off feature. Over 40 hours of light using replaceable lithium watch batteries (included). Fits easily into shirt or uniform pocket.

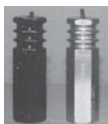
- Blue LED QuiqLite P/N 13-02719
 Green LED QuiqLite..... P/N 13-02728
 Red LED QuiqLite..... P/N 13-02729
 White LED QuiqLite P/N 13-02730



MASTERVISION CAP LIGHT

The best hands free flashlights available! Bright light-weight LED flashlight that clips to a regular cap. Water resistant! Great for night flying! Weighs only 1.24 ounces! 3 LED bulbs with 10,000 hour burn time! 4 lithium coin cell batteries for approximately 24 hours of life!

- G1 Original Caplight 13-03723
 G1 Stalker Caplight 13-03724
 Battery for Caplight..... 13-03726



SURE CHECK FUEL LIGHT

Will assist in ensuring your safety every time you strain test your fuel prior to flight. At night, it's safe & easy to use. The Sure Check Fuel Light, when used with your fuel test tube, will light up all the water and debris that might be present.

The case is made of durable aluminum, comes in a variety of colors, weighs only 2.2 ounces, is 3" long, and uses a 12 volt battery to power a high intensity white LED light bulb. The casing is sealed with a strong neoprene rubber seal to keep any fuel from leaking into the case. Made in USA.

Description	Part No.	Price	Description	Part No.	Price
BLACK	13-04210		BLUE	13-04208	
GOLD	13-04206		PINK	13-04211	
GREEN	13-04209		RED	13-04207	


SAFE-LIGHT SUPER BRIGHT FLASHLIGHTS

Lightweight and palm-size yet powerful, with ultra-long battery life(9v battery included). Emergency Strobe plus other essential safety modes: Constant Glow, Power-Save, High Beam, L.E.D., Power-Save mode. Also available with blue, green or red LED.


- White LED ... P/N 13-04151
 Blue LED .. P/N 13-04152
 Green LED .. P/N 13-04153
 Red LED .. P/N 13-04154

PILOT FLASHLIGHTS

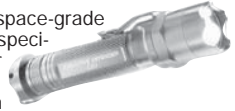
SUREFIRE AVIATION FLASHLIGHTS

 Long known as a major supplier of quality flashlights to law enforcement and the military, Surefire has just made available a new flashlight built for aviators that combines two widely different light sources in a single compact illumination tool providing dual power and variable output. Surefire flashlights feature the finest beams, reflectors, switches and powerful tungsten lamps available on the market today. They are not inexpensive but for the pilot looking for a truly unique, high quality, reliable flashlight, Surefire is the answer. Surefire flashlights carry a lifetime warranty (excluding batteries and lamps).

The A2 Aviator features a high-output incandescent lamp producing 50 lumens surrounded by 35mm LED's set in a specially designed parabolic reflector. The Aviator's digitally controlled two-stage switch allows the pilot to choose LED's for soft light illumination in the cockpit or high output lamp for bright illumination during preflight inspection of your aircraft. The high beam on the A2 Aviator can illuminate the tail of a 747 from the ground. That's over 63 ft high! Not bad for a flashlight that measures only 5.6" in length and weighs only 4 oz. The A2 Aviator comes standard with a gray-green super-tough Type III hard anodized finish to military specifications, because it is the best and the toughest. It is powered by 2 lithium batteries, is shock-proof, water-resistant and comes with a lifetime guarantee (excluding batteries and lamps). Length: 5.9"


 The L1 Lumamax features a 1W Luxeon LED which produces 15 lumens from one Surefire 3V lithium battery, which is three times brighter than a conventional mini light running on two AA alkaline. For the pilot needing only the soft light of LED lighting for cockpit illumination, the L1 Lumimax is an excellent choice. Length: 4.6"

The G2 Nitrolon is Surefire's most economical flashlight, and uses 2 lithium batteries to produce 65 lumens of diamond bright light for 60 minutes. The G2 is constructed of Black Nitrolon, a polymer compound that is lightweight, corrosion-proof, and non-conductive. Depress the tailcap on the G2 for momentary illumination or rotate fully inward for constant-on illumination. Length: 4.9"

 The E2d Defender is constructed from aerospace-grade aluminum coated in a super rugged military-specification finish, the pocket-size E2D Defender also features an optically-coated Pyrex® lens; high-energy, ten-year shelf-life lithium batteries; a stainless steel pocket clip, and law enforcement-style click-on/off momentary switching for blinding flashes or emergency signaling.

- A2 Aviator with green LEDs P/N 13-02017
- A2 Aviator with white LEDs P/N 13-02018
- L1 Lumamax with white LED P/N 13-02019
- L1 Lumamax with green LED P/N 13-02020
- G2 Nitrolon flashlight (Plastic Body) P/N 13-02021
- E2d Defender flashlight P/N 13-03204

SUREFIRE ULTRA U2 FLASHLIGHT


 Compact (palm size) high-intensity variable-output LED flashlight for tactical, duty, and general use. Uses a virtually indestructible light-emitting diode (LED) to provide six output levels, from a long-running low beam to a brilliant white tactical-level high beam almost seven times the light of a big two D-cell flashlight. Ring selector provides instant output control. Electronic current regulation maintains a more consistent level of light output for the useable life of the batteries. Variable output, compact size, extended-runtime low beam and high-output beam capability, and 10-year battery shelf life also make it perfect for backpacking or camping and for disaster preparedness kits. P/N 13-04710

123 Lithium Battery for the U2 Ultra..... P/N 13-04711

SUREFIRE REPLACEMENT BULB MA02

The MA02 lamp assembly fits A2 Aviator flashlights and produces 50 lumens of light for 1 hour. P/N 13-04438

STREAMLIGHT FLEXIBLE FLASHLIGHT

 The Streamlight has a 6.21" flexible, insulated cable extension allows 14 inches for hard-to-reach areas. Made of silver aircraft aluminum casing and a tough PVC shielded cable. Unbreakable, 100,000-hour white LED that never needs replacing. It has a runtime of up to 60 hours. (4) AAA batteries included. Wt: 1.1 oz. P/N 13-03142

PELICAN AVIATION LIGHTS VERSABRITE




This is the world's brightest swivel head pocket flashlight. The adjustable head swivels 180 degrees, enabling the pilot to direct the beam where he needs it. It is water resistant and mounts directly on the adhesive pad of yoke chart holders. Provides 6000 candlepower Xenon laser beam spot beam, and comes standard with clear, red, and blue-green lenses. Clips easily on shirts, belts, and caps for hands free use. Comes with multi-use velcro fasteners and 2 AA batteries.

P/N 13-00561

Versabrite mounting clips (1 top, 1 side mount)


MICRO ONE WATT LED FLASHLIGHT

 The new Micro FlashLED is more powerful than most LED flashlights on the market today. It has a 1-Watt, 80-Lumen LED chip that emits over 4,300 End-foot candles (4300cd) of bright, cool white (8000 Kelvin) light that's powerful enough and lasts long enough to light your way — all the way home. Features: * One Year Warranty * One Watt, 80 Lumen LED Chip * Focussable Lens: Narrow and Wide Beam * Puts out over 4,300 End-Foot Candles of light * Retains 50% of its light output after 1 hour of continuous use * Visibility approx. 2 miles, depending on atmospheric conditions and line of sight * Lights for 4 days (96 hours) at a diminishing light output rate * Micro FlashLED High Brightness Light can induce dizziness in criminals' eyes in a few seconds. * Uses 3 standard AAA batteries * Rugged Anodized Aluminum Body Finish * Push button on/off switch * Weight: 3.5 oz. without batteries, 4.8 oz. with batteries P/N 13-06456


SUPER MITYLITE WITH PELIKNIFE

 This handy light features a 6000 candlepower pocket lite with a laser sharp pre-focused beam. Only 4.5" long, this light is virtually unbreakable and is submersible to 600 ft. Includes a lock back pocket knife which is 3" long when folded and features a 2" long stainless steel blade. Incl. 2 AA batteries, key chain ring, pocket clip. P/N 13-00567

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


MINI LED FLASHLIGHTS

 Our original astro flashlights, much imitated but never duplicated, are back! More compact at only 3.5 inches long, 2 inches shorter than water resistant version, and for a tiny price! NOT water resistant (sorry there's only so much we could squeeze in), but all the other great features in a smaller, lighter case. Features: •DUAL Ultra-bright LEDs -- The best and the brightest with lifetimes of 100,000+ hours, never break, and provide smooth illumination. •Thumbwheel Brightness Control -- Dial up just the right amount of light and extend battery life. •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 batteries age, unlike competitors LED flashlights which start bright but quickly fade. •9 Volt Battery & 20 inch neck strap included

White & Red.....P/N 13-04696

Red & Green.....P/N 13-04697

MYGRIPLIGHT (LED)

 Multi purpose product that performs as an organizational tool as well as a multi purpose light. The organizational tool organizes writing instruments, cell phones, eyeglasses, flight charts and other documents by means of a patented polyester snap-in-lock structure to secure these items. The patented multi purpose light is connected to the organizational tool by means of a flex-arm. The light has 360 degree rotation and can be removed from the organizer to act as an independent lighting instrument. The light offers both white and red light illumination on demand. MyGripLight mounts to most any surface by use of Velcro® fasteners that is supplied with the product. It can be mounted permanently by the use of screws through the mounting slots built into the organizational tool. P/N 11-07540



FLASHLIGHTS

XEVISION PERSONAL LED FLASHLIGHTS



The compact LED flashlights are so small that they fit in the palm of a hand comfortably. They are so bright, even die-hard HID Xenon lighting technology purists can not resist.

Super-bright white light from one small but powerful LED

Our LED flashlights feature the latest commercial Cree LED 7090 XR-E, which delivers unprecedented levels of bright white light. The legendary 7090 XR-E is tested to the

highest standards in the LED industry. The white light generated is as cool as HID with around 4000°K to 5000°K. The current draw is quite small while the LED is very efficient with a luminous flux of up to 100 lm min. @ 350 mA, and a luminous efficacy up to 75 lumens/watt.

XeVision personal LED flashlight models

The compact LED flashlights are so small that they fit in the palm of a hand comfortably. They are so bright, even die-hard HID Xenon lighting technology purists can not resist.

XV-C1C - Is their most compact LED flashlight using one long-lasting 3 VDC Lithium CR123A battery. The XV-C1C features six settings, 4 of them being output levels. This flexibility not only allows the user to select the best compromise between brightness and runtime for any given task but also has the ability to aid in an emergency. The XV-C1C offers a remarkably compact size and is extremely solid and reliable with its digitally regulated brightness. One 3 VDC CR123A Lithium battery

- XV-C1C (Black)PN 13-05144
- XV-C1C (Iridium)PN 13-05147

XV-C2C - Features six settings, 4 of them being output levels. This flexibility not only allows the user to select the best compromise between brightness and runtime for any given task but also has the ability to aid in an emergency. The XV-C2C offers a remarkably compact size and is extremely solid and reliable with its digitally regulated brightness. Two 3 VDC CR123A batteries (Lithium), not rechargeable.

- XV-C2C (Black)PN 13-05145
- XV-C2C (Iridium)PN 13-05148

XV-G2A - Features six settings, 4 of them being output levels. This flexibility not only allows the user to select the best compromise between brightness and runtime for any given task but also has the ability to aid in an emergency. The XV-G2A offers a compact size and is extremely solid and reliable with its digitally regulated brightness. Two 1.5 VDC AA (Alkaline, Lithium) or 1.2 V NiMH batteries.

- XV-G2A (Black)PN 13-05146
- XV-G2A (Iridium)PN 13-05149

ACCESSORIES

Model	Description	Part No.	Price
WF-138C Charger for XeVision XV-C2C	Charger for a single or pair of over-discharge protected R-CR123A rechargeable Li-Ion cells. Comes with 2 R-CR123A cells.	13-05141	.
WF-138 Charger only	Just the charger - for the WF-123 combo package	13-05140	.
ICR123 Rechargeable Lithium Batteries	These ICR123 rechargeable 3 V batteries used for the XV-C2V LED flashlight. Note that the standard CR123A batteries must not be recharged!	13-05139	.
CR123A Single Cell Lithium Technology	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.	13-05142	.
CR123AX2 Twin Cell Lithium Batteries	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.	13-05143	.

ASA PILOT'S FLASHLIGHT



This AirClassics Aviation flashlight has both white and red lenses for preflight and night flying, and MIL spec blue-green lens for map reading. This Pilot Flashlight is water-tight, corrosion resistant, has an extra Krypton bulb stored within, and features a clicking ON/OFF for maximum battery life. Focuses from spot to flood light.

This aviation flashlight is black machined aluminum with ASA wings logo. Two AA batteries and PR-1 bulb included.

P/N 13-01067.....

PILOTS 2 COLOR FLASHLIGHT



20 Bright White LEDs and 6 Red LEDs in an inexpensive aluminum flashlight - Ideal for pilots and flight crews

- Anodized aluminum housing with 26 LEDs
- 20 Super-bright White color LEDs for normal use
- 6 Bright Red color LEDs for use when pre serving night vision
- Water resistant push-button switch selects White-Off-Red-Off
- Uses 3 common AAA cells (included) for over 20 hours of use
- LEDs rated over 100,000 hours

P/N 13-05664.....

AEROCOAST LED FLASHLIGHT



Led Flashlight with 12 high intensity white LED bulbs. * Single color 12 led flashlight * 80 Lumens 100 hr battery life * Light weight aluminum casting * Battery type: 3 x AAA * Size: 42 x 147 mm

P/N 13-06043.....

LED CAP LIGHT



5 Bright White LED Cap Light - Perfect for hand-free illumination during maintenance or trouble-shooting

- Lightweight, compact 5 LED hat light clips onto baseball caps
- Great for hands-free light during maintenance or troubleshooting

- Uses two (2) lithium coin cells for up to 96 hours of illumination
- Blister packaged with batteries
- Five extra-bright White LEDs with a life of over 100,000 hours

P/N 13-05662.....

THE LIGHTED PILOT PEN



Professional LED Writing Instrument for Pilots, Flight Crews, Law Enforcement and Military Use. Features: • Aircraft aluminum housing with on/off LED lighting and rotating top cap ink cartridge retraction. • Works as either a standard pen or for writing in low light or dark conditions. • Uses one

common AAA cell for up to 20 hours of illumination • Gift box packaged with an extra ink cartridge and extra AAA cell • Two extra-bright White LEDs with a life of over 100,000 hours

P/N 13-05278.....

PILOT'S COCKPIT UTILITY & EMERGENCY LIGHT



See all your panel control settings, maps, charts, compass, and log books. Choose red light for night vision, or bright white light. Designed to travel anywhere, the Navigation Light can be clipped to most surfaces or used free-standing. Uses: * Aviation * Marine * Automotive * Trucking * RV * Emergency Response Vehicles Features: * Four different light level options * Two red LEDs in one head and two white LEDs in a second

allow for lighting versatility * Dual flexible arms provide infinite maneuverability * Sensor switches on each lighting head require just a tap to turn on one or both LEDs * Optical grade lens provides evenly distributed light with no hot spots * Easily bends to compact position for storage * Offers 20 hours of continuous use on 3 AAA batteries * Extra strong clip grips almost anything * Uses 3 AAA batteries (included) or available AC Adapter (110-240 Volts) (not included) P/N 11-05821.....

ASA TRI-LITE NAVIGATOR



The Tri-Lite flashlight is equipped with red, green, and white LEDs providing maximum flexibility and everything the pilot needs to

maintain night vision while also providing the true-color options necessary for accurate chart, fuel, and oil color interpretation. Hands-free operation is made possible by 3 Velcro®-like (3M Dual Lock) mounting strips. The light can be snapped onto headsets, kneeboards or other flat surfaces, and can be quickly removed and re-attached. When attached to a headset, a focused beam of light is directed wherever the pilot looks.

P/N 13-05753.....

PETZL HEADLAMPS

PETZL HEADLAMPS

In 1972, when Petzl invented the first headlamp, the idea of attaching a light and its battery case to a headband was quite innovative. A hands free light source that can be directed where needed, allows the user to perform almost any activity. Headlamps have now become an important factor in safety and efficiency. Thought innovative use of technology (LED's and current regulators), impact-resistant of headlamps that can be used in many situations...from the simplest tasks to the most demanding work and rescue applications. All headlamps include batteries.

TIKKA PLUS HEAD LAMP/TILT/MOD



P/N 11-06771



P/N 11-06772



P/N 11-06774

4 LED headlamp with 3 lighting levels
Lighting level can be adjusted to help conserve battery life
* 4 LED produce flood beam lighting with a long burn time,
* 3 lighting levels (maximum, optimum, economic).
* Single compartment contains LED and batteries
* 78 g including batteries.
* Beam can be easily aimed where needed,
* Comfortable and adjustable elastic headband.
* Certification - CE

E47PM Yellow and Black Camo..... P/N 11-06771.....
E47PS blue and Black Splatter..... P/N 11-06772.....
E47PT Green and Black Splatter..... P/N 11-06773.....
E47PBY Black and Grey Stripe..... P/N 11-06774.....

TACTIKKA PLUS/FLIP FILTER RED (E49P)



TacTikka Plus 4 LED Headlamp with Red or White Light, 3 Power Settings & Flash, Alternates easily between white and red light simply by moving the pivoting filter over the reflector. Features: •3 Power Settings & Flash •Tilt Focus •Long battery life up to 110 hours •Lightweight and comfortable to wear: ergonomically designed elastic headband. •Water-resistant for all-weather use •Operates with three AAA-LR03 batteries (supplied) •Weighs 78g •Includes Batteries.
P/N 11-05096.....

TIKKA LED TILT HEAD LAMP



46P2- LED headlamp with red flip down filter, and tilting head. 3 LED array produces long-lasting and even light. Features: •Produces diffuse, proximity lighting. •Red filter for discrete light and preservation of user's night vision. •Flip-down filter makes it easy to switch between red and white light. •Light beam can be easily aimed where desired. •Adjustable and comfortable elastic headband. •Water resistant for all-weather use. •Black lamp and headband.
P/N 11-04990.....

TACTIKKA CAMO BAND RED FLIP UP E46PC



TacTikka LED Alternates easily between white and red light simply by moving the pivoting filter over the reflector. Long battery life up to 110 hours. Lightweight and comfortable to wear: ergonomically designed elastic headband. Water-resistant for all-weather use. Also available in CAMOUFLAGE version: elastic headband and lamp head in camouflage color.
P/N 11-04988.....

TIKKA LED TILTING HEAD LAMP (E43P2)



Ultralight 3 LED headlamp with elastic headband. The Tikka is the most compact and lightest headlamp of our range. With a 150 hour burn time, it is ideal for long term close-up work, as it gives a very white light. The reliability and long life of the LED makes it very safe. It has an on/off switch.
P/N 11-05094.....

MYO HEADLAMP 3 BLACK 3 LED 1 HALOGEN E27PN



Features: •4 hour burn time Xenon bulb - 180 hour burn time for the 3 LEDs •Lightweight, compact, and extremely versatile this one light can do it all. •Switch lock mechanism prevents the light from draining your batteries when stored •Tilting head mechanism allows you aim the light where it is needed most •Spare Xenon Halogen bulb included with headlamp. Water resistant - won't short out even if submerged
P/N 11-05099.....

MYO 5 HEADLAMP LED/HALOGEN E28P



Features: •4 hour burn time Xenon bulb - up to 160 hour burn time for the 5 LEDs which also have three brightness settings •Lightweight, compact, and extremely versatile this one light can do it all. •Switch lock mechanism prevents the light from draining your batteries when stored •Tilting head mechanism allows you aim the light where it is needed most •Spare Xenon Halogen bulb included with headlamp. Water resistant - won't short out even if submerged
P/N 11-04994.....

MYO HEADLAMP XENON HALOGEN E32P



The Myo is Petzl's simplest headlamp, featuring a super bright Xenon halogen bulb. Its compact design has a tilt features as well as focusable beam. An ideal light for times when you need a bright light with your hands free. Features: •Maximum range 100 m •Supplied with spare 6 V standard bulb •Operates with 4 AA alkaline batteries (included) •LEDs available, providing brilliant white light for over 100,000 hours of continuous burn time - they will never need to be replaced.
P/N 11-04992.....

DUO 5 HEADLAMP PETZL LIGHTS E69



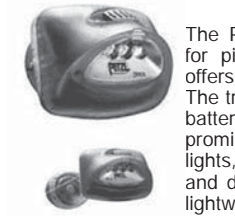
The DUO lamps are ideal for use in wet environments, but are not designed for prolonged submersion (i.e. diving). Features: •Waterproof with dual light source: focusable halogen bulb and an LED module. •Switching on & off, brightness selection, zooming •The DUO lamps allow the light to be optimized (distance, duration) according to your needs. •Simultaneous use of both bulbs is not possible. •Unlocking/locking the bezel
P/N 11-04996.....

ZIPKA PLUS/PUSH BUTTON SWITCH E48P



Ultralight 4-LED headlamp with 3 lighting levels and retractable cord. Retractable cord can be used to attach lamp to the head, the wrist, wrapped around a pipe, etc. Features: •Very lightweight. •Three lighting levels (maximum, optimum, economy) and a blinking mode. •Long light duration up to 150 hours. •Water-resistant for all-weather use.
P/N 11-04989.....

PILOT LED HEADLAMP



The Pilot LED Headlamp is designed specifically for pilots operating in nighttime conditions, and offers reliable, convenient, hands-free illumination. The triple 10,000+ hr LED bulbs and 50 to 160+ hr battery life (vs. approx. 6 hours for a Mini Mag-Lite) promise reliability far in excess of normal flashlights, and practically eliminate burned-out bulbs and dead batteries. The Pilot is a compact, ultralightweight, waterproof, hands-free lighting system that's comfortable to wear (even with headphones), is furnished with a hard clamshell case, and comes with a 3yr warranty.
P/N 12-00719.....

BELT BATTERY PACK MYO 5 E33P



Belt Mounted Battery Pack for MYOSB5. Features: •Maximum level: ideal for climbing or moving quickly on technical ground •Economy level: ideal for reading maps, setting up a tent.
P/N 11-04991.....

PS

FLASHLIGHT HOLDERS - ARM RESTS

ASTRO ARM FLASHLIGHT HOLDERS MERCURY MODEL

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



ASTRO ARM FLASHLIGHT HOLDERS - MERCURY-MAGNETIC

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. P/N 13-04006



ASTRO ARM FLASHLIGHT HOLDERS GEMINI

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



ASTRO ARM FLASHLIGHT HOLDERS GEMINI

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 T13-04008



CLIPSTICK

The Clipstick features a flexible Loc-line that provides sturdy support, allowing a product to be positioned in numerous angles while maintaining its shape. With 3" oversized spring-loaded clips fastened to each end of the connectors, the Clipstick firmly holds many of the standard items a pilot will utilize during a flight. P/N 13-03430



THE SNAKE CLIP

Introducing the SnakeClip™, a unique aviation cradle which holds a variety of personal electronic items such as cell phones, PDA's and iPods. Attaching and detaching in seconds, the portable SnakeClip™ can be transferred between planes and automobiles for maximum utility. Like its predecessor, the ClipStick, it can be attached to multiple surfaces in the cockpit and won't sag or lose its surface grip over time. No installation necessary - simply clamp the SnakeClip™ onto a suitable surface and it's ready to "bite". The padded adjustable arm on the cradle expands to hold items up to 2.5" wide, and features a quick-release button for easy device removal. Clip under cradle can hold numerous items such as pens, notepads and most GPS units. Mounting arm is composed of industrial-grade flexible connectors which provide rigid support, yet allows the unit to swivel & bend in hundreds of angles maintaining its shape. The versatile clips contain rubber pads for surface protection & have 3.25" clamping area. The SnakeClip™ measures 12" fully extended.. One-year warranty. P/N 13-05549



No installation necessary - simply clamp the SnakeClip™ onto a suitable surface and it's ready to "bite". The padded adjustable arm on the cradle expands to hold items up to 2.5" wide, and features a quick-release button for easy device removal. Clip under cradle can hold numerous items such as pens, notepads and most GPS units. Mounting arm is composed of industrial-grade flexible connectors which provide rigid support, yet allows the unit to swivel & bend in hundreds of angles maintaining its shape. The versatile clips contain rubber pads for surface protection & have 3.25" clamping area. The SnakeClip™ measures 12" fully extended.. One-year warranty. P/N 13-05549

THE PORTABLE ARMREST FOR PILOTS

Introducing the 100% portable center armrest for airplanes that makes flying comfortable. An ongoing problem for general aviation aircraft has been the absence of a center armrest for the pilot and co-pilot which leads to fatigue. Instant Armrest has finally solved this problem. Other armrest products are airplane specific and require drilling, bolting, and mounting hardware. Professional pilots, renters, and student pilots can now own an affordable armrest that they can take with them on every flight, even when they change planes. * Fits any aircraft * Fits flat or bucket seats *Fits right and left seats * Ready to use in 1 second * Adjustable * Fits in flight bag * Lightweight aluminum P/N 13-03154



SIDESTICK CONTROL ARM RESTS

The side stick control arm rests will steady the hand, which improves flying and reduces wrist and arm fatigue. The arm rests were designed by an orthopedic specialist to reduce wrist and hand carpal tunnel syndrome. They can also be used for throttle rests. Color: Black. ABS plastic. Furnished as right/left set. P/N 13-03265



COCKPIT COMPANION ORGANIZERS

The Cockpit Companion provides a convenient organizer for the loose items pilots shuffle in the cockpit. It is easily installed with Velcro between the front seats and features clean out windows at bottom of the storage areas. Holds fire extinguisher, charts, books, transceiver, headsets, glasses, wallet, fuel strainer, flashlight, pens, highlighters, and more. Attractive and durable, the Cockpit Companion is built from top-grade smoked acrylic. Made in USA.

STYLE #172 - Fits most Cessna 172's plus any other aircraft with this available space. Top portion dimensions: 22" Long (plus 4" headset post) 8" Tall (12" total w/bottom), 3" Wide Bottom extinguisher dimension: 22" Long 4" Tall (12" total w/top), 4-1/4" Wide. Features removable pencil "divider" for easy cleaning. All are outside dimensions! P/N 13-02710



STYLE #182 - Fits most 182's, 206's, 210's & other aircraft with this available space. Dimensions: 18" long plus (4" headset post) 12" Tall 4-1/4" Wide All are outside dimensions! Be sure to measure your available space prior to ordering! P/N 13-02715



MAP CHECKLIST & LOG BOOK HOLDERS

These holders come in three sizes to store your maps, checklists and log books. They are thermoformed from ABS plastic, and come in either black or gray.



Description	Size	Color	Part No.	Price
Map/Checklist	9"x10"x 5/8"	Black	13-03085	
Aircraft Log	4-1/2"x7"x1/4"	Black	13-03086	
Engine Log	6-1/2"x7"x1/2"	Black	13-03087	
Map/Checklist	9"x10"x 5/8"	Gray	13-03088	
Aircraft Log	4-1/2"x7"x1/4"	Gray	13-03089	
Engine Log	6-1/2"x7"x1/2"	Gray	13-03090	

UNCLE MIKES SEAT ORGANIZER

Designed to keep paperwork, clipboards, books, notepads, radios, phones, water bottles, thermos bottles, pens and pencils in reach and in place and not sliding around the cabin or rolling around on the floor, the sturdy, water repellent 1200 Denier nylon fabric Seat Organizer is loaded with compartments and pouches and secures to the passenger seat headrest with a dual purpose strap designed to be used as a shoulder strap when outside of the aircraft or vehicle. P/N 13-04034



PLANE POCKETS

Nine pockets protect and organize your cockpit and keep your equipment like new. Three large pockets with drawstrings hold POH Charts, Approach Plates, Sectionals. An additional three more pockets are designed to hold your handheld radio, cameras, manuals, batteries, oxygen mask, and many other items. Top pockets will hold paper, sunglasses, water, flashlights and cables. Lightweight, rip-stop nylon, easy to install. Your headrest must be able to be removed to install pockets. Must supply number of inches between the centers of headrest post. With Headrest ... P/N 13-04160 W/O Headrest ... P/N 13-04161



LEATHERMAN POCKET TOOLS



SQUIRT® P4

Features: • Needlenose Pliers • Straight Knife • Wire Cutters • Extra Small Screwdriver • Medium Screwdriver • Small Flat Phillips Screwdriver • Single-Cut File • Cross-Cut File • Opener • Lanyard Attachment Awl
Specifications: Length: 2.25"/ 5.5cm closed, Weight: 2 ounces / 57 grams, Materials: Stainless steel with anodized aluminum scales

Available Colors: Storm (gray), Glacier (blue), Inferno (red), Powder (pink)
PN 13-05556.....



SQUIRT® S4

Features: • Scissors • Straight Knife • Tweezers • Extra-Small Screwdriver • Medium Screwdriver • Small Flat Phillips Screwdriver • Nail File/Cleaner • Opener • Lanyard Attachment • Ruler
Specifications: Length: 2.25"/ 5.5cm closed, Weight: 2 ounces / 57 grams, Materials: Stainless steel with anodized aluminum scales

Available Colors: Storm (gray), Glacier (blue), Inferno (red), Powder (pink)
PN 13-05557.....



SQUIRT® E4

Features: • Wire Strippers (20GA, 18GA, 16GA, 14GA, & 12GA) • Electric Wire Cutters • Spring-Action Needlenose Pliers • Extra Small Screwdriver • Small Screwdriver • Phillips Screwdriver • Straight Knife • Wood/Metal File • Tweezers • Bottle Opener • Key Ring Attachment

Specifications: Length: 2.25"/ 5.5cm closed, Weight: 1.9 ounces / 54 grams, Materials: Stainless steel with anodized aluminum scales

Available Colors: Storm (gray), Glacier (blue), Inferno (red)
PN 13-05558.....



JUICE® S2

Features: • Needlenose Pliers • Straight Knife • Wire Cutters • Hard-Wire Cutters • Extra-Small Screwdriver • Small Screwdriver • Med/Lrg Screwdriver • Phillips Screwdriver • Lanyard Attachment • Can/Bottle Opener
Specifications: Length: 3.25"/ 8.25cm closed, Weight: 4.3 ounces / 122 grams, Materials: Stainless steel with anodized aluminum scales

Available Colors: Storm (gray) Inferno (red)
PN 13-05559.....



JUICE® C2

Features: • Needlenose Pliers • Straight Knife • Wire Cutters • Hard-Wire Cutters • Extra-Small Screwdriver • Small Screwdriver • Med/Lrg Screwdriver • Phillips Screwdriver • Lanyard Attachment • Can/Bottle Opener • Scissors

Specifications: Length: 3.25"/ 8.5cm closed,

Weight: 4.3 ounces / 122 grams, Materials: Stainless steel with anodized aluminum scales

Available Colors: Storm (gray), Inferno (red)
PN 13-05560.....



JUICE® CS4

Features: • Needlenose Pliers • Straight Knife • Wire Cutters • Hard-Wire Cutters • Extra-Small Screwdriver • Small Screwdriver • Med/Lrg Screwdriver • Phillips Screwdriver • Lanyard Attachment • Can/Bottle Opener • Corkscrew with Assist • Scissors • Saw • Awl

Specifications: Length: 3.25"/ 8.25cm closed, Weight: 5.5 ounces / 156 grams, Materials: Stainless steel with anodized aluminum scales

Available Colors: Storm (gray), Glacier (blue)
PN 13-05561.....



JUICE® E

Features: • Needlenose Pliers • Straight Knife • Wire Cutters • Hard-Wire Cutters • Extra-Small Screwdriver • Small Screwdriver • Med/Lrg Screwdriver • Phillips Screwdriver • Lanyard Attachment • Can/Bottle Opener • Corkscrew with Assist • Scissors • Saw • Awl • Serrated Knife • Diamond File

Specifications: Length: 3.2"/ 8.25cm closed, Weight: 6.8 ounces / 190 grams, Materials: Stainless steel with anodized aluminum scales

Available Colors: Storm (gray), Thunder (purple)
PN 13-05562.....



TOOL ADAPTERS

3 Locking Positions, Lanyard Hole Tool Adapters make your favorite Leatherman tool even more versatile by quickly converting it to a 1/2" hex drive. Standard Tool Adapter fits PST, PST II, Super Tool 200, Sideclip, Flair and Pulse. Wave Tool Adapter fits Wave only. Sold as a kit with six hex bits and case. Also available in a combination sheath with PST, PST II, Super Tool 200 and Wave.
PN13-02723.....



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.....



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.....



BLAST

Needlenose Pliers, Regular Pliers, Wire Cutters, Hard-Wire Cutters, Clip-Point Knife, Wood/Metal File

Saw, Scissors, Large Screwdriver Small Screwdriver, Phillips Screwdriver Small Bit Driver, Ruler (8 inch/19 cm) Bottle/Can Opener, Wire Stripper Lanyard Attachment One Double-Ended Bit

P/N 13-03286.....



FUZE

Needlenose Pliers, Regular Pliers, Wire Cutters, Hard-Wire Cutters, Clip-Point Knife, Scissors,

Large Screwdriver, Small Screwdriver, Phillips Screwdriver, Ruler (8 inch/19 cm), Bottle/Can Opener, Wire Stripper, Lanyard Attachment

P/N 13-03287.....



CHARGE TTI

The Charge TTI features a cutting hook, scissors, outside-accessible blades, bit drivers, crimpers and more. But we had to give the TTI its own claim to fame. That's where the comfort-sculpted titanium handles and the S30V® stainless steel clip-point knife come in. Grab a hold of one today and you'll quickly see why the Charge models are the pinnacle of our multi-tool collection.
PN 13-04514.....



KICK

Needlenose Pliers, Regular Pliers, Wire Cutters, Hard-Wire Cutters, Clip-Point Knife, Large Screwdriver, Small Screwdriver, Phillips Screwdriver Ruler (8 inch/19 cm), Bottle/Can Opener, Wire Stripper, Lanyard Attachment

P/N 13-03288.....



CHARGE XT1

Titanium Handles, Needlenose Pliers, Regular Pliers, Wire Cutters, Hard-Wire Cutters, Crimper, 154 CM Clip-Point Knife, Serrated Knife, Cutting Hook, Saw, Wood/Metal File, Diamond-Coated File, Two Large Bit Drivers, Small Bit Driver, Large Screwdriver, Ruler (8 inch/19 cm), Bottle/Can Opener, Wire Stripper, Fixed Lanyard Ring, Quick-Release Lanyard Ring, Removable Pocket Clip, Nine Double-Ended Bits

P/N 13-03290.....



CORE

Stainless Steel Body, All-Locking Blades, Needlenose Pliers, Regular Pliers, Wire Cutters, Hard-Wire

Cutters, Stranded - Wire Cutters, Electrical Crimper, Clip-Point Knife, Serrated Knife, Wood/Metal File, Saw, 5/16" Screwdriver, 7/32" Screwdriver, 1/8" Screwdriver, Phillips Screwdriver, Awl w/Thread Loop, Ruler (9 inches/22 cm), Bottle/Can Opener, Wire Stripper, Lanyard Ring

P/N 13-04045.....



CHARGE AL

Charge® AL includes scissors that slice through just about anything with beveled edges that allow them to get close to whatever your cutting, for a clean trim every time. Bit drivers for versatility, diamond-coated files for fine-point work and a 154CM clip-point knife are all housed in 6061-T6, hard-anodized aluminum alloy handles. Rounded edges for grip comfort and a stainless steel badge make this a Leatherman that's really earned its name.
PN 13-04515.....



CHARGE ALX

Take the Charge AL and replace the scissors with an aggressive cutting hook on the back of the serrated blade and you've got the Charge® ALX. Rip through tough materials like seatbelts, linoleum and leather with no problem. Get your hands around the same unbeatable ergonomic grip, outside-accessible blades and premium materials like 154CM and 6061-T6, heat-treated, alloy aluminum.
PN 13-04523.....

PS

PILOT WATCHES



T1 TORGOEN TITANIUM BLACK

The Flight Computer Watches can be used to calculate time, distance and speed equations. It also can perform a variety of calculations from currency conversions to multiplication and division problems. With the watch you can calculate any conversion of linear nature with a constant ratio such as ounces to grams, kilograms to pounds, miles to kilometers etc.

P/N 13-05053



T2 TORGOEN WATCHES - T2 watches offer Flight Computer capacity with a moveable external, create ring. Capacity to perform E6B functions or even quickly perform currency conversions while shopping in a foreign country. Handsome. Comfortable. Available in dressy 2-tone finish. Swiss-made chronograph movement, stainless steel case. Water resistant to 50 meters. Model shown: Silver dial/black leather band. P/N 13-02489



T5 TORGOEN WATCHES - T4 Zulu Time watches provide Dual-time zone function using a 24-hour hand - it makes 1 revolution every 24 hours, instead of 12. The 24-hour hand can be positioned to show the time in a second time zone. Large numbers and superior luminescence make these watches easily readable at a glance, day or night. Swiss-made movement, stainless steel case. Water resistant to 100 meters. Leather or stainless steel band models available. Model shown: Black dial/black leather band. P/N 13-02502

T7 TORGOEN FLIGHT COMPUTER WATCHES



Torgoen's line of Flight Computer Watches can be used to calculate time, distance and speed equations. It also can perform a variety of calculations from currency conversions to multiplication and division problems. With the watch you can calculate any conversion of linear nature with a constant ratio such as ounces to grams, kilograms to pounds, miles to kilometers etc.

P/N 13-05045



P/N 13-05048

Description	Part No.	Price
Stainless Steel Black Dial, Band is Black PU, Water Resistance 100 meters	13-05044	.
Stainless Steel Black Dial, Stainless Steel Band, Water Resistance 100 meters	13-05047	.
Stainless Steel Yellow Dial, Band is Black PU, Water Resistance 100 meters	13-05045	.
Stainless Steel Yellow Dial, Stainless Steel Band, Water Resistance 100 meters	13-05048	.
Stainless Steel Green Dial, Band is Black PU, Water Resistance 100 meters	13-05046	.
Stainless Steel Green Dial, Stainless Steel Band, Water Resistance 100 meters	13-05049	.



P/N 13-05051

T8 TORGOEN ZULU TIME WATCHES

- 3 time zones - 12 hour format
- High Grade Stainless Steel case
- Screwed Down Stainless Steel Back
- Mineral K1 hardened crystal
- Solid Links Stainless Steel Bracelet or PU Strap
- Swiss Quartz with 12 hours Dual Time hand Movement by Ronda.
- Water Resistant for 10 ATM (330 feet).

- Non Radioactive long lasting Luminescence Dial
- Weight - 7.4 oz. (210 gm)



P/N 13-05050

Description	Part No.	Price
Stainless Steel Black Dial, Band is Black PU, Water Resistance 100 meters	13-05028	.
Stainless Steel Black Dial, Stainless Steel Band, Water Resistance 100 meters	13-05027	.
Stainless Steel Yellow Dial, Band is Black PU, Water Resistance 100 meters	13-05051	.
Stainless Steel Yellow Dial, Stainless Steel Band, Water Resistance 100 meters	13-05050	.



VIBRALITE3 VIBRATION WATCHES

Great for Private and Confidential Reminders! Has auto-reset countdown timer. The vibration on your wrist from VIBRALITE3 will remind you to do any important thing without annoying others. What's really great is that you don't have to hear the alarm to know that it's signalling you.

This watch is especially nice for pilots, students (taking exams), and of course the deaf and hard of hearing. Since the watch also features an Auto Reload Countdown Timer, it can be the ideal answer for those who need reminding of times to take medicine, scheduled daily activities and more.

With leather steel bandP/N 13-02541

With leather bandP/N 13-02542

VIBRALITE 8 VIBRATION WATCHES



8 MODEL VL8A-BK - Black Polyurethane Band

EIGHT VIBRATION ALARMS for variable reminders up to 8 alarms can be preset
COUNTDOWN TIMER with Auto Repeat Feature for interval reminders. set when wanting the same alarm time to repeat automatically each time the countdown timer reaches zero.

USER ALARM OPTIONS: Vibration, Sound, and Hourly Alert ON or OFF choices are set and Secure in separate Option Mode.

EL LIGHT: turns on by a twist of the wrist or the push of a button. Light stays on while any button is pushed, for settings in the dark..

3 TIME ZONES can be set for reference

STOPWATCH counts up to 23 hours, 59 minutes, and 59.99 seconds
12 OR 24 Hour CLOCK SELECTION

• One Year WarrantyP/N 13-04892



MODEL VL8SL-BK - Genuine black leather band

EIGHT VIBRATION ALARMS for variable reminders up to 8 alarms can be preset
COUNTDOWN TIMER with Auto Repeat Feature for interval reminders. set when wanting the same alarm time to repeat automatically each time the countdown timer reaches zero.

USER ALARM OPTIONS: Vibration, Sound, and Hourly Alert ON or OFF choices are set and Secure in separate Option Mode.

EL LIGHT: turns on by a twist of the wrist or the push of a button. Light stays on while any button is pushed, for settings in the dark..

3 TIME ZONES can be set for reference

STOPWATCH counts up to 23 hours, 59 minutes, and 59.99 seconds
12 OR 24 Hour CLOCK SELECTIONP/N 13-04947



MODEL VL8SS-GT - Stainless Steel Band with genuine gold trim.

EIGHT VIBRATION ALARMS for variable reminders up to 8 alarms can be preset
COUNTDOWN TIMER with Auto Repeat Feature for interval reminders. set when wanting the same alarm time to repeat automatically each time the countdown timer reaches zero.

USER ALARM OPTIONS: Vibration, Sound, and Hourly Alert ON or OFF choices are set and Secure in separate Option Mode.

EL LIGHT: turns on by a twist of the wrist or the push of a button. Light stays on while any button is pushed, for settings in the dark..

LARGE DIGITS ON THE DISPLAY for easy viewing.

3 TIME ZONES can be set for reference

STOPWATCH counts up to 23 hours, 59 minutes, and 59.99 seconds
12 OR 24 Hour CLOCK SELECTION P/N 13-04948

AIRCRAFT SPRUCE WALL CLOCK




Aircraft Spruce wall clock with a black frame. The quality quartz movement is made in the USA and comes with a lifetime guarantee. Imprint size: approximately 4-1/2" diameter. Attractive presentation box included.P/N 13-06209

PILOT WATCHES

SUUNTO WATCHES

Suunto watches are world-renowned for their high quality construction and design. The Suunto brand name means precision and durability - so whatever you use your Suunto watch for, you'll have the peace of mind that comes with wearing an accurate instrument that you can trust under any circumstances. The timeless design of Suunto's watches make them wearable in any casual situation, and because of their moderate size, they are perfectly suitable for both men and woman.


SUUNTO VECTOR WATCHES



An instrument that you cannot leave home when planning any kind of outdoor activity. Features: * Altimeter: Altitude, vertical speed, altitude alarm, logbook, vertical difference measurement, automatic 24h altitude memory, temperature compensation. Logbook capacity 8 kB, recording intervals 20s, 1min, 10min and 60min, with respective times 10h, 12h, 7 days and 10 days * Barometer: Sea level pressure, absolute pressure, pressure difference, pressure trend indicator, 4-day barometric memory, temperature * Compass: Cardinal bearing, North-South arrow, bearing tracking, declination setting * Chronograph: Stopwatch, countdown timer, calendar, three daily alarms * Water resistant to 30 m (100 ft) * Temperature resolution 1°C/1°F * Weather memory 4 days * Temperature range -20°C - +60°C/-5°F - +140°F * Weight 54 g * Operating temperature -20°C - +60°C/-5°F - +140°F * Water resistance 30m/100ft * Storage temperature -30°C - +60°C/-22°F - +140°F

Black/Black P/N 10-19325
 X-Black/Black with Negative Face P/N 13-04420
 Yellow/Black with Negative Face P/N SUN8K08Y
 Khaki P/N SUN8K07R
 Foliage Green P/N SUN8K03R


SUUNTO X-LANDER WATCHES



An accurate altimeter, a complete barometer, a precise electronic compass and a multi-functional sports watch in a one elegant package. Extremely user-friendly and has easy-to-use logic, a large display with big numerals and an electro-luminescent backlight for dimly lit conditions. Non-allergenic aluminum casing, carbon fiber back, a durable mineral crystal glass, and a water resistant fabrik strap

Stainless Case and Negative Face P/N 13-06558
 Stainless Case and Military Black Face P/N 13-06559

BLUE ANGELS SKYHAWK AT



* Atomic Timekeeping with Radio-Controlled Accuracy * World Time in 43 Cities * 2 Alarms * 99 Minute Countdown Timer * Perpetual Calendar and more.

Stainless Steel band P/N 13-06459
 Blue Polyurethane Band P/N 13-06460
 Titanium band P/N 13-06461

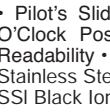
CITIZEN SKYHAWK FLIGHT CHRONOGRAPH



* Time & Calendar - 22 Time Zones (30 Cities) * Three World Time Alarms * 99 Min. Countdown Timer * 1-Touch Interchangeable Analog/ Digital Times * Rotating slide rule bezel * Screw back case

Stainless Steel band P/N 13-01418
 Titanium band P/N 13-03587


CITIZEN NIGHTHAWK WATCHES



• Pilot's Slide Rule Dial Ring Operated by Crown at 8 O'Clock Position * Large Luminous Markers for Easy Readability * Non-Reflective Crystal * Dual Time

Stainless Steel Band P/N 13-03581
 SSI Black Ion Plating P/N 13-03582


CITIZEN SKYHAWK A-T WATCHES



* Atomic Timekeeping with Radio-Controlled Accuracy * World Time in 43 Cities * 99 Minute Countdown Timer * Perpetual Calendar * Digital Display Light * Greenwich Mean Time Display * Rotating Slide Rule Bezel * Power Reserve Indicator

Stainless Steel Band P/N 13-05581
 SS Black Ion Plating P/N 13-06458
 Polyurethane Band P/N 13-05587
 Titanium Band P/N 13-05588


BLUE ANGELS SKYHAWK



The Blue Angels Skyhawk Flight Chronograph commemorates the highly skilled flying team. • Time and Calendar in 22 Time Zones (30 Cities) • Three World Time Alarms * 1/100 Second Chronograph Measures up to 24 Hours

Stainless Steel Band P/N 13-05591
 Titanium Band P/N 13-05592


BLACK EAGLE SKYHAWK



Designed to soar with unbridled stealth and precision.

Polyurethane Band P/N 13-05595
 SSI Black Ion Plating P/N 13-05596

SUUNTO OBSERVER WATCHES




Features: • Altimeter: Altitude, vertical speed, logbook function with quick-access button, memory capacity 99 logs, history memory, alti/baro lock, temperature compensation • Barometer: Sea level pressure, absolute pressure, weather trend indicator, temperature, automatic 4-day barometric memory, alti/baro lock • Compass: Bearing, cardinal bearing, bearing tracking, • North-South arrow, declination setting • Chronograph: Calendar, 3 alarms, dual time, stopwatch with 99 split/lap times

Material options:
 Suunto Observer Sr - stainless steel housing with elastic strap (80 g), Suunto Observer St - stainless steel housing with stainless steel elastomer strap (100 g), Suunto Observer Tt - top-of-the-line model - titanium housing with titanium elastomer strap (75 g), Suunto Observer Black - stainless steel case with stainless steel strap, and Suunto Observer St Black - stainless steel case with elastomer straps

Observer SR Black P/N 13-06555
 Observer ST Black P/N 13-06556
 Observer TT P/N 13-06552
 Observer ST P/N 13-04418
 Observer SR P/N 13-06554

SUUNTO CORE WATCHES



Suunto Core keeps you informed with an accurate altimeter, barometer, digital thermometer, Weather Trend Indicator and digital compass. The pressure gauge operates in four distinct modes, including an automatic setting that senses your movement or lack thereof, switching between altimeter and barometer accordingly. The compass features a rotating bezel for traditional use, or a one-touch function that allows you to sight, lock and follow a bearing. Daily functions include dual time, date, alarm, sports chronograph and predicted times for sunrise and sunset. * Standard strap style is pictured.


Core Standard Strap Steel /Steel P/N 13-06610
 Core Standard Strap Alum./Brown Leather P/N 13-06599
 Core Standard Strap Black/Orange P/N 13-06611
 Core Light strap Black /Yellow P/N 13-06607
 Core Light strap Black /Green P/N 13-06608
 Core Light strap Black/Black P/N 13-06609

SUNNTO ACCESSORIES

Suunto Battery Kit SSOS4700000 P/N SUNBATT
 Sunnto Bike Mount P/N SUN51BIKE
 Core Standard Aluminum Strap P/N 13-06613
 Sunnto Core Leather Black Strap P/N 13-06614
 Sunnto Core Flat Black Strap P/N 13-06615
 Sunnto Core Flat Orange Strap P/N 13-06616


REVUE THOMMEN WATCHES

At the beginning of the 1920s, the company Revue Thommen started manufacturing aircraft instruments. It is for this reason that it has more familiar with special needs of pilots than any other watch manufacturer. The Airspeed Classic self-winding wrist-watches and chronographs were inspired by the instrument panels of commercial and military aircraft that are equipped with Revue Thommen precision instruments. These instruments are characterized by clear, easy-to-read numerals, hands and displays and are fitted with a self-winding mechanical movement or with a quartz movement. The casing is made from stainless steel or titanium, a material favoured by the aerospace industry.




REVUE THOMMEN SWISS A/S WATCH - Airspeed Line Classic. Calibre ETA 2836-2 (automatic watch with date hand). All stainless steel case, screw-in steel case back, anti-reflective double-faced sapphire crystal, water-resistant to 100 m / 330 feet. Assorted dials. Diameter 37.5 mm / 32.5 mm.

P/N 13-05158



REVUE THOMMEN SWISS A/S QUARTZ - Airspeed Line Classic. Calibre ETA 251.262 Chronograph Quartz. Titanium case, screw-in steel case back, anti-reflective double-faced sapphire crystal, water-resistant to 100 m / 330 feet. Assorted dials Diameter 37.5 mm.

P/N 13-05159



REVUE THOMMEN SWISS WATCH X-L - Airspeed Line Xlarge. CalibDD 2824-A2 Chronograph (automatic watch with date indication). All stainless steel case, screw-in steel case back, anti-reflective double-faced sapphire crystal, water-resistant to 50m/160 feet. Assorted dials. Diameter 41mm.

P/N 13-05160

SUNGLASSES

RAY-BAN AVIATION SUNGLASSES



Ray-Ban is the leading brand in the high quality sunwear market segment and by far the best-selling sunwear 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.



Style	Frame Color	Lens Color	PN	Price
RB 3025	ARISTA	G-15 XLT 62mm	13-04984	
RB 3025	ARISTA	Light Polarized Natural Green 1.8mm	13-04985	
RB 3025	BLACK	G-15 XLT 62mm	13-04986	
RB 3025	BLACK	Light Polarized Natural Green 1.8mm	13-04987	
RB 3025	GUNMETAL	G-15 XLT 62mm	13-04988	
RB 3025	GUNMETAL	Light Polarized Natural Green 1.8mm	13-04989	
RB 3025	ARISTA	G-15 XLT 58mm	13-04990	
RB 3025	BLACK	G-15 XLT 58mm	13-04991	

G-15XLT is a Grey Color



Style	Frame Color	Lens Color	PN	Price
RB 3221	GUNMETAL	G-15 XLT	13-04978	
RB 3221	MATTE BLACK	G-15 XLT	13-04996	

G-15XLT is a Grey Color



Style	Frame Color	Lens Color	PN	Price
RB 3309	ARISTA	G-15 XLT 55mm	13-04998	

G-15XLT is a Grey Color

RB3026



Style	Frame Color	Lens Color	PN	Price
RB 3026	BLACK	G-15 XLT	13-04992	
RB 3026	ARISTA	G-15 XLT	13-04993	

G-15XLT is a Grey Color

RB3310



Style	Frame Color	Lens Color	PN	Price
RB 3310	ARISTA	G-15XLT 55mm	13-04999	

G-15XLT is a Grey Color

RB3030



Style	Frame Color	Lens Color	PN	Price
RB 3030	ARISTA	G-15 XLT	13-04994	
RB 3030	BLACK	G-15 XLT	13-04995	

G-15XLT is a Grey Color

RB3339



Style	Frame Color	Lens Color	PN	Price
RB 3339	MATTE BLACK	G-15 XLT 59mm	13-05001	

G-15XLT is a Grey Color

VEDALOHD™ PERFORMANCE SUNGLASSES

FRAME STYLES



High-Definition Lens Technology (HDL-3C™), built into new sunglasses offer improved sight definition for pilots, using color, clarity and comfort. These lenses filter the visible spectrum to improve color contrasts; decentered lenses increase visibility and eliminate distortion; visual health is improved and eye fatigue is reduced thanks to lightweight frames. Visibility is said to be increased through trispectrum color contrast enhancing techniques; other color tinting techniques improve color simulation but only improves one basic color type in the color spectrum.

These non-polarized (important for pilots!) lenses come in two lens types: rose (for low light conditions), and smoke (for bright light conditions). The sunglasses are very lightweight and comfortable. We offer a 30-day money back guarantee if you're not satisfied. Several choices for frames are available.



ARGENTO
Ultra Light Aviator



ROSSO
Small Square



TITANIO
Hinged Square



AZZURRO
Fashion Rectangle



VERDE
Large Oval



RAME
Classic Yet Fashionable



GIALLO
Hot new look from Italy!



NERO
Sport Fashion Wrap



MARRONE
Faded Brown Wrap



ROSSO2 (HINGED)
Astonishing light Weight

Description	Part No.	Price
ROSSO ULTRA LITE FRAMES SMOKE	13-04022	
ROSSO ULTRA LITE BETA FRAMES ROSE	13-04023	
ROSSO2 ULTRA LITE FRAMES SMOKE	13-06099	
ROSSO2 ULTRA LITE FRAMES ROSE	13-06102	
AZZURRO ULTRA LITE FRAMES SMOKE	13-04026	
AZZURRO ULTRA LITE FRAMES ROSE	13-04027	
ARGENTO ULTRA LITE FRAMES ROSE	13-04028	
ARGENTO ULTRA LITE FRAMES SMOKE	13-04029	
VERDE ULTRA LITE FRAMES ROSE	13-04031	

Description	Part No.	Price
RAME FRAMES ROSE	13-04678	
RAME FRAMES SMOKE	13-04677	
RAME FRAMES 2R	13-04679	
GIALLO FRAMES ROSE	13-04676	
GIALLO FRAMES SMOKE	13-04675	
NERO FRAMES ROSE	13-04673	
NERO FRAMES ROSE	13-04672	
MARRONE FRAMES ROSE	13-06119	

PS

732

AIRCRAFT SPRUCE WEST
CORONA, CA • (877) 4-SPRUCE

AIRCRAFT SPRUCE EAST
PEACHTREE CITY, GA • (877) 477-7823

Prices Subject to Change Without Notice

SUNGLASSES



Randolph Engineering has been a leading supplier of military sunglasses to the U.S. Armed Forces since 1982. These sunglasses are the choice of America's Top Gun pilots and NASA astronauts. They meet demanding U.S. military specifications, provide superior glare protection and UV absorption and can be converted to prescription lenses. All of the sunglasses below feature 23K gold plated, hand polished frames and come with a crush resistant case.

AVIATOR – Standard issue for military pilots worldwide. (MIL.SPEC. 25948). These lenses sharpen detail and show colors evenly, making them ideal for flying. Bayonet temples provide optimum fit for use with a headset or helmet.



Size	Lens	Part No.	Price
52mm	Tan	13-05775	.
52mm	Gray	13-00679	.
52mm	Gray/Green	13-00680	.
55mm	Gray	13-00681	.
55mm	Tan	13-00682	.
55mm	Gray/Green	13-00683	.
58mm	Gray	13-00684	.
58mm	Tan	13-00685	.

CONCORDE – The Concorde features the world famous tear drop aviator lens design, monoblock hinge design, skull temple bars, and non-slip silicone nose pads. A very popular sunglass style with lenses that are convertible for prescription lenses.



Size	Lens	Part No.	Price
57mm	Gray	13-00687	.
57mm	Tan	13-00688	.
57mm	Gray/Green	13-00689	.
61mm	Gray	13-00690	.
61mm	Gray/Green	13-00691	.



CREW CHIEF – An updated version of traditional Randolph sunglasses. Crew Chief sunglasses has all the features of the American Pilot above in a slightly more tear drop shape lens design. Excellent for flying & driving. P/N13-00698



POLAR EYES PREMIUM POLARIZED SUNWEAR

PolarEyes® Sport Collection - PolarEyes sport sunwear provides Advanced UV Protection™. The patented designs utilize flexible hypoallergenic nylon Weightless

Frames™ (average weight 21 grams) paired with PolarPC polarized lenses to give the wearer not only maximum protection from glare and damaging ultra-violet light, but also an unsurpassed fit that is both comfortable and secure. Developed from 25 years of polarized sunglass manufacturing experience, PolarEyes offer protection like no other sunglasses. Thermal ports eliminate moisture build up on the lens surface. CASE AND CLOTH - All PolarEyes® sunglasses include a case and a large micro-fiber lens cloth.



PolarPC® Lens System - All Frames feature polarized UV400 PolarPC lenses that completely protect the eyes from damaging UV light and eliminate harsh surface glare. Made from impact-resistant polycarbonate with a bonded hard-coat to resist scratching. Lenses are available in gray or copper tints.

Frame Model	Frame Size	Frame Color	Lens Color			Part No.	Price
			Copper	Gray	Both		
ISLAY	Small	Russet			•	13-03180	.
ISLAY	Small	Silver			•	13-03181	.
ISLAY	Large	Black Silver			•	13-03184	.
PISMO	Small	Black			•	13-03185	.
PISMO	Small	Tortoise			•	13-03186	.
PISMO	Large	Black			•	13-03187	.
PISMO	Large	Tortoise			•	13-03188	.
OBISPO	Small	Black			•	13-03189	.
OBISPO	Small	Tortoise			•	13-03190	.
OBISPO	Large	Russet			•	13-03194	.

SCHEYDEN FLIP-UP SUNGLASSES



Scheyden Precision Eyewear is simply Aviation's Finest Eyewear. With the Scheyden patented flip system & locking mechanism, pilots can instantly adapt to constantly changing light conditions with the flip of a finger. This unique function puts an end to fumbling around with glasses and headsets forever. Effortlessly FlipUp in lowlight conditions and FlipDown when the sun is bright.

The frames are fabricated in Titanium for incredible strength while weighing mere ounces. The manufacturing tolerances are extremely strict, rivaling those of the aerospace industry. Most importantly, all Scheyden Precision Eyewear offers 100% UVA and UVB protection for your most valuable resource - your eyes. Lenses are available in High Contrast Bronze and Neutral Gray.

Dual Rx options enable pilots to lighten their load to one eyeglass frame for all cockpit vision requirements.

All Scheyden Eyewear comes packaged in a luxurious Bubinga Rosewood case which can be custom engraved with your name, tail number and/or company logo.

Scheyden Precision Eyewear offers a Lifetime Warranty on their frames and has the best lens replacement warranty in the eyewear industry. Demand Precision. Demand Scheyden.

Scheyden Style	Frame Color	Part No.	Price
Avalon	Titanium	13-01524	.
Avalon	Neutral	13-04268	.
El Capitan	Titanium	13-01574	.
El Capitan	Neutral	13-04266	.
Sonoma	Gun Metal	13-01521	.
Sonoma	Titanium	13-01558	.
Sonoma	Neutral	13-04270	.

SCHEYDEN Fixed Gear Sunglasses (non flip up). Titanium Frame sunglasses with classic, timeless styling and incredibly crisp Mineral Glass lenses are available in the same styles at **\$199.00** ea. Call for part numbers.

SCHEYDEN DUAL RX FLIP-UPS



Scheyden Dual Rx frames combine the ability to instantly adapt to changing light conditions while always keeping your prescription lenses in place. These frames are supplied with a lens template which is all your local optician needs to fabricate your prescription lenses. All frames are Titanium.

- Rx EL Captain Bronze.....P/N 13-04271
- Rx EL Captain Neutral GrayP/N 13-04272
- Rx Avalon BronzeP/N 13-04273
- Rx Avalon Neutral GrayP/N 13-04274
- Rx Sonoma BronzeP/N 13-04275
- Rx Sonoma Neutral GrayP/N 13-04276



SUNGLASSES

SERENGETI AVIATOR SUNGLASSES

Serengeti Aviators protect your vision while eliminating glare and sharpening details better than other sunglasses. Cloud boundaries are more easily delineated and oncoming traffic is more visible. Unique photochromic spectral controls improve your ability to see in marginal VFR and IFR conditions. In bright sunlight, you'll see the instruments better and ghost images will be eliminated from the cockpit. Wear them late in the day or at sunset to preserve your night vision.



LARGE AVIATOR - Base Curve: 6; Temple Length: 140mm
Lens Size: 61.75 x 55.5 x 68mm, Dbl 10.5mm Black
P/N 2121.....

MEDIUM AVIATOR - Base Curve: 6
Temple Length: 140mm/Spring Hinges
Lens Size: 59.3 x 51.57 x 67.02mm, Dbl 12.5mm; Matte Black
P/N 13-03136.....



MEDIUM AVIATOR - Base Curve: 6
Temple Length: 140mm/Spring Hinges
Lens Size: 59.3 x 51.57 x 67.02mm, Dbl 12.5mm
P/N 13-03138.....



VELOCITY - Frame Color: Gunmetal
Lens Color: 555nm Size Information: Base Curve: 8 Rx Temple Length: 130mm/
Spring Hinges Lens Size: 60 x 39 x 62mm DBL 16mm
P/N 13-03139.....



AMERICAN OPTICAL SUNGLASSES

Performance-tested sunglasses with classic aviator styling. The Original Pilot Sunglass® has been a favorite of US military pilots for more than 40 years. Engineered to rigid military specifications and issued to millions of US soldiers, sailors, marines and airmen since 1958. The rugged and sturdy structure and high quality finishing of the steel alloy frame coupled with distortion free, toughened and polished True Color® glass lens have made the AO Flight Gear® Collection the standard bearer of all fine military sunglasses.

ORIGINAL PILOT



52MM..... P/N 13-03212.....
54MM..... P/N 13-03213.....

GENERAL



52MM..... P/N 13-03214.....
58MM..... P/N 13-03215.....

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 denier cordura exterior, soft padded durable lining. Black color.
P/N 13-00699.....

OPTX 20/20 HYDROTAC STICK-ON READING LENSES



These stick-on lenses instantly turn any brand of sunglasses into sharp, clear reading glasses! They can be cut to the shape of any sunglass lens, and are removable & reusable; they adhere to the sunglass lenses by molecular attraction. Excellent for pilots using Ray Ban, Serengeti, Randolph and other aviation sun glasses, as well as outdoorsmen and anyone needing inexpensive corrected sunglasses. Available from 1.25 to 3.0 diopters in .25 diopter increments. Please specify magnification at time of order.

Description	P/N	Price
Optx 20/20 1.25	13-06301	
Optx 20/20 1.50	13-06302	
Optx 20/20 1.75	13-06303	
Optx 20/20 2.00	13-06304	
Optx 20/20 2.50	13-06306	
Optx 20/20 3.00	13-06308	

LIVE EYEWEAR COCOONS SUNGLASSES

Cocoons were designed to fit over glasses; however our smaller styles make them extremely popular as solo sunglasses. Cocoons feature PolarTx® polarized lenses to eliminate harsh glare, allowing your eyes to remain focused on the task at hand. The optical grade lenses and side shields precisely regulate light transmission, reducing eye fatigue and strain. They block 100% of damaging UV A&B light, providing 40% more protection than conventional sunglasses. Cocoons offer a virtually unbreakable frame with soft touch finish, adjustable temples, lifetime warranty, 3 contemporary shapes and sizes, and are accessorized with floating neoprene case and lens cloth. Color: Black.

Sizing Guide: Measure the width (w) and height (h) of your prescription eyewear to determine which Cocoons sunglasses will fit best.



SLIMLINE (MEDIUM)
RX frame sizes: up to 5-3/8" w X 1-5/8"
P/N 13-02967.....

PILOT (LARGE)

RX frame sizes: up to 5-3/8" w X 1-5/8"
P/N 13-02968.....



AVIATOR (EXTRA LARGE)
RX frame sizes: up to 5-3/8" w X 1-5/8"
P/N 13-02969.....



WIDELINE (MEDIUM LARGE)
RX frame sizes: up to 5-5/8" w X 1-3/8"
P/N 13-04719.....

MINI SLIM (MEDIUM SMALL)

RX frame sizes: up to 4-7/8" w X 1-3/8"
P/N 13-04720.....



STREAM LINE (SMALL)
RX frame sizes: up to 4-7/8" w X 1-3/8"
P/N 13-04721.....



COCOONS OVER X - Cocoons are the only sunglasses in the world that will completely isolate your eyes from the elements. The collection features patented designs that deliver 360° of Advanced UV Protection and are available in a range of styles and sizes that can be worn over prescription

eyewear or as conventional sunglasses. After wearing Cocoons for a short period of time, your eyes will begin to relax. The polarized UV400 front and side lenses treat incoming light, eliminating distracting glare and allowing you to focus on the task at hand. The patented frames protect your eyes from all angles, blocking sunlight, UV, glare, wind, rain and airborne debris. C427C
Features: • Polarized UV400 • Scratch Resistant • Flex2fit® Temples • Soft Touch Finish • 360° of UV Protection • Ultra Lightweight • Case and Cloth • Lifetime Warranty
P/N 13-05550.....



VISTANA OVER X - Vistana's proprietary lens system delivers a distortion-free, panoramic line of sight not available in any other over prescription sunglass. With traditional designs, the wearer will experience a gap in peripheral vision when scanning from the front to the sides due to a

section of frame that separates the front and side lenses. Vistana's patented designs use continuous full wrap lenses that eliminate the section frame between the front and side lenses, creating a more open and uninterrupted view. Encourage your customer a traditional over prescription sunglass to the evolutionary Vistana design and they will immediately notice the difference in both performance and style. W412G
Features: • Polarized UV400 • Scratch Resistant • Flex2fit® Temples • Dynamic Base Technology • Ultra Lightweight • Case and Cloth • Lifetime Warranty
P/N 13-05551.....

COCOONS QUALITY IN A FLIP-UP



World renowned Cocoons quality is now available in the Cocoons Flip-Up sunwear collection. The Polaré lens system delivers enhanced visual acuity with a choice of polarized gray, amber or copper. Each clip includes a protective case and is backed by the Live Eyewear limited lifetime warranty. LF40
P/N 13-05552.....

FLIGHT JACKETS - FLYING GOGGLES

Classic. Authentic. Quality. Established in 1959 as a defense contractor for the US Government, Alpha Industries remains one of the largest manufacturers of cold weather outerwear. For over 35 years, Alpha Industries has continuously supplied the US Government and military forces throughout the world. Alpha is now recognized as the original and leading manufacturer of authentic military-inspired outerwear. Some jackets are made in the USA and some are imported.

TO ORDER FLIGHT JACKETS: Choose jacket style and color desired and order by basic part number shown. Complete the part number with size by adding -1 (Small), -2 (Medium), -3(Large), -4 (X Large), or -5 (XX Large).

MA-1 INTERMEDIATE FLIGHT JACKET

The most popular flying jacket in the world, supplied by Alpha Industries to the U.S. Military for over 40 years. 100% nylon flight satin outer shell with nylon flight lining and polyester batting interlining for warmth. Front closure storm flap. Knit collar, waistband and cuffs. Combination utility pocket on sleeve. Pilot's MA-1 reverses to high visibility Indian Orange for use in emergencies. Colors: Black, Navy, Sage Replica Gray, Titanium, Stratos.

- Black P/N 13-00544
- Navy P/N 13-00546
- Sage P/N 13-00547
- Silver P/N 13-00549

LEATHER MA-1 FLIGHT JACKET

Premium cowhide leather winter-weight flying jacket styled as the classic MA-1. Quilted lining with polyester interlining. Snap closure front flap pockets and inside pocket. Antiquated brass zippers and snaps. Leather zip pull, embossed logo. Wool ribbed waistband, cuffs and collar. Colors: Black and Brown

- Black P/N 13-00552
- Brown P/N 13-00553

MA-1 FLIGHT JACKET

Only a company with over 40 years of manufacturing mil spec clothing for the most demanding of clients can claim to reproduce the originals with absolute authenticity. Each Alpha Replica Series product is exact the last detail, using original or accurately reproduced components and fabrications to replicate the real thing.

- Large P/N 13-05579-1
- XX-Large P/N 13-05579

LEATHER B-3 SHERPA FLYING JACKET

Traditionally the right stuff for pilots from the very first days of military aviation, the sheepskin flyer jacket remains a rugged supremely warm item of apparel. Made from the finest sheepskin hides with full sherpa lining throughout, this classic style is popular with both men and women. Genuine cowhide leather accents and re-inforcements on seams. Dual collar adjusters and side buckle straps. Front slash pockets. Antiquated brass front zipper. Color: Brown

- P/N 13-00554-3

AIR FORCE WHITE SCARF W/USAF EMBLEM - POLY COPY OF OLD ISSUE AF SCARF

- P/N 13-03611

G.I. OD WOOL SCARF ISSUE - 100% WOOL ISSUE 52" LONG WOVEN IN TUBE SHAPE. ISSUE FOR AMRY AND MARINES.

- P/N 13-03610

NYLON FLYER KIT BAG

Carries almost as much as a duffle bag. Made of cordura waterproof nylon, with zipper and snap closure. Storm flap cover over zipper. size 21.5" x 21" x 10" wgt 2.0# Has double nylon web handle.

- P/N 13-03612

BARMITTS FOR YOUR TRIKE

Extend your flying season and enjoy it more with these barmitts. The sides zip open to fit around the bar. The cozy insulation and wind-proof exterior keep your hands comfortable in the coldest wind. Sized to fit over your gloves.

- Bar Mitts Pair - Red P/N NW002R
- Bar Mitts Pair - White P/N NW002W
- Bar Mitts Pair - Reflective Green P/N NW002G



NOMEX AVIATOR'S SUMMER FLYING GLOVES

Size	Part No.	Price	Size	Part No.	Price
Sage Green			Desert Tan		
8	13-02055	.	7	13-03621	.
9	13-02056	.	8	13-03622	.
10	13-02057	.	9	13-03623	.
11	13-02058	.	10	13-03624	.
			11	13-03625	.

CWU - 45/P FLIGHT JACKET

A nylon version of the U.S. Air Force current issue flight jacket. 100% nylon flight satin outer shell. Fully lined with quilted flight nylon and polyester fill. Water repellent. Knit cuffs and wristband. Storm flap. Two fully-lined cargo pockets and combination utility pocket on sleeve. Removable Velcro logo patch. Colors:Black, Navy, Sage Replica Gray, Titanium, Stratos.



- Black P/N 13-00559
- Navy Blue P/N 13-00569
- Ink Blue P/N 13-05585
- Airforce Green P/N 13-00572
- Gun Metal Grey P/N 13-00576

LEATHER CWU-45/P FLIGHT JACKET

Premium cowhide leather winter-weight flying jacket styled as the classic U.S. Air Force 45/P. Quilted lining with polyester interlining. Velcro closure front flap cargo pockets and inside pocket with snap fastener. Antiquated brass front zipper. Leather zip pull. Wool ribbed waistband and cuffs. Colors: Black and Brown

- Black P/N 13-00555
- Brown P/N 13-00556

MARK 4 SILVER CROSS GOGGLES

All leather face mask, colour matched head bands, Split lenses, bright polished and chrome plated frames, Sliding Nose Bridge Adjustment. Replacement Lenses for Silver Cross Goggles Clear, set of 2 P/N 13-06100 Smoke, Set of 2 P/N 13-06200

WORLD WAR II RAF FLYING GOGGLES

A faithful Replica incorporating dark brown soft leather face mask stitched to the RAF blue painted solid brass frames. The traditional Split Lenses

- P/N 13-05860

VINTAGE AVIATOR GOGGLES

Soft Brown or Black Leather face Mask, Hand Stitched to silver or black painted solid brass frames. Screw adjustment on nose bridge.

- P/N 13-06310

HAND SEWN EPAULETS

These tapered, hand sewn epaulets are produced by the finest tailors using the highest quality material. Available with Gold or Silver Stripes.

Stripe	Color	GOLD Stripe		Silver Stripe	
		Part No.	Price	Part No.	Price
1	Navy Blue	13-06568	.	13-06576	.
1	Black	13-06569	.	13-06577	.
2	Navy Blue	13-06570	.	13-06578	.
2	Black	13-06571	.	13-06579	.
3	Navy Blue	13-06572	.	13-06580	.
3	Black	13-06573	.	13-06581	.
4	Navy Blue	13-06574	.	13-06582	.
4	Black	13-06575	.	13-06583	.

PS

APPAREL

Aircraft Spruce is pleased to be an official distributor for EAA merchandise. Order these EAA caps, shirts, and jackets direct from Aircraft Spruce and support the Experimental Aircraft Association.



EAA TWILL CAPS

This unstructured cap is made of 100% cotton twill with an adjustable self-fabric tuck in back strap.
Off White/NavyP/N 13-04749
Navy/Off WhiteP/N 13-04750



EAA POCKET T-SHIRTS

EAA logo above pocket. 100% Cotton. Limited quantities and sizes.

Color	Si e	PN	Price
Gray	Med.	13-04751	
Navy	Med.	13-04752	
Gray	Large	13-04758	
Gray	X-LRG	13-04759	
Gray	2XLG	13-04761	
Navy	Large	13-04763	
Navy	XL	13-04789	
Navy	2XLG	13-04764	



EAA GOLF SHIRTS

Port Authority, 100% cotton pique, knit golf shirt in ivory and navy.

Color	Si e	PN	Price
Ivory	Small	13-04753	
Navy	Small	13-04754	
Ivory	Medium	13-04765	
Ivory	Large	13-04766	
Ivory	X-LG	13-04767	
Ivory	2XLG	13-04768	
Navy	Medium	13-04769	
Navy	2XLG	13-04764	
Navy	Large	13-04770	
Navy	XLG	13-04771	
Navy	2XLG	13-04772	



EAA CREWNECK SWEATSHIRTS

Sueded finish, crewneck sweatshirt in navy.

Color	Si e	PN	Price
Navy	Small	13-04755	
Navy	Medium	13-04773	
Navy	Large	13-04774	
Navy	XLG	13-04775	
Navy	2XL	13-04776	



EAA MICROFIBER JACKET

Water repellent, two tone, micro fiber jacket in navy/sand.

Color	Si e	PN	Price
Navy	Small	13-04756	
Navy	Medium	13-04777	
Navy	Large	13-04778	
Navy	XLG	13-04779	
Navy	2XL	13-04780	



EAA NYLON JACKETS

Water repellent, fleece lined, two tone nylon jacket in navy/putty.

Color	Si e	PN	Price
Navy/Off White	Small	13-04781	
Navy/Off White	Medium	13-04782	
Navy/Off White	Large	13-04783	
Navy/Off White	XLG	13-04784	
Navy/Off White	2XL	13-04785	

WHY WOMEN PREFER AIRPLANES T-SHIRT



You may have seen the "Why Men Prefer Airplanes" T-shirt; well turn-about is fair play! From the front, this 100% preshrunk cotton T looks like just another mild-mannered Powder Puff Pilot product. But from the back, it tells the world ten reasons why airplanes are better than men. It's available in white with fuchsia trim, in M (4-6), L (8-10), XL (12-14), and XXL (16-18)

Description	Part Number	Price
Med. T-Shirt	13-06345	
Large T-Shirt	13-06462	
X-Large T-Shirt	13-06463	
XX-Large T-Shirt	13-06464	

CHILDREN'S JACKETS



CHILDRENS MA-1 JACKETS WITH PATCHES - This is a well made reproduction of the famous MA-1 green nylon quilted. Same patches as our childrens bomber jacket.

Description	Si e	Part No.	Price
MA1 Toddler	2	13-06443	
MA1 Toddler	3	13-06442	
MA1 Toddler	4	13-06444	
MA1 Youth	8	13-06437	
MA1 Youth	1012	13-06436	
MA1 Youth	1416	13-06440	
MA1 Boys	4/5	13-06439	
MA1 Boys	6	13-06438	
MA1 Boys	7	13-06441	



YOUTH BOMBER JACKETS - These are a Flightline original. They're a reproduction of a classic bomber, complete with simulated fleece collar. They are sturdily made with many special touches that make it unique, such as an airplane zipper pull, authentic aviation patches & colorful graphic map liner.

Description	Si e	Part Number	Price
Bomber Toddler	2	13-06432	
Bomber Toddler	3	13-06428	
Bomber Toddler	4	13-06433	
Bomber Youth	1012	13-06431	
Bomber Youth	1416	13-06434	
Bomber Youth	08	13-06427	
Bomber Boys	4/5	13-06429	
Bomber Boys	6	13-06430	
Bomber Boys	7	13-06435	



CHILDRENS MA-1 JACKETS WITH PATCHES AND A HOOD - This is a well made reproduction of the famous MA-1 green nylon quilted childrens jackets with patches and a hood. Same as our childrens bomber jacket but with faux fur trimmed hood and a velcro closure at top.

Description	Si e	Part Number	Price
MA1 Toddler	Small	13-06447	
MA1 Toddler	Medium	13-06446	
MA1 Toddler	Large	13-06445	
MA1 Youth	Small	13-06448	
MA1 Youth	Medium	13-06453	
MA1 Youth	Large	13-06452	
MA1 Boy	Small	13-06454	
MA1 Boy	Medium	13-06451	
MA1 Boy	Large	13-06449	

PS

RED CANOE APPAREL

RED CANOE CAPS

The classic and unparalleled fit is the cornerstone of every Red Canoe cap. Perfect vintage colours and appliqué techniques make each design a potential heirloom (as long as one of your friends doesn't 'borrow it indefinitely' - we recommend buying two!). 100% brushed cotton with fully adjustable velcro closure.



AMERICAN AIRLINES 50 CAP - From a melting pot of fledgling carriers in the early 1930's American Airlines has become a global leader in Air Transportation. Our AA Vintage Reissue Licensed Products feature the historic icons, colours and logo application techniques like layered cut felt. SIZE: One Size COLOUR: Navy
PN 13-05343



BELL HELICOPTER - Larry Bell jump-started his company's foray into helicopters when he hired Arthur M. Young, a talented inventor, to provide expertise for helicopter research and development. It was the foundation for what Bell hoped would be a broader economic base for his company that wasn't dependent on government contracts. Bell Aircraft Corporation had originally only produced airplanes, including the famous Bell X-1. The Bell Model 47 became the first helicopter rated by a civil aviation authority in the world and would become a civilian and military success. SIZE: One Size COLOUR: Burnt Yellow
PN 13-05344



CESSNA CHEVRON CAP - When Clyde Cessna taught himself to fly in 1911 it was the start of a unique relationship between man and machine. To thousands of air men and women today the name "Cessna" has come to symbolize flying itself. Our CESSNA Vintage Reissue Licensed Products are a salute to this legendary icon of aviation. SIZE: One Size COLOUR: Stone
PN 13-05345



CESSNA PLANE CAP - When Clyde Cessna taught himself to fly in 1911 it was the start of a unique relationship between man and machine. To thousands of air men and women today the name "Cessna" has come to symbolize flying itself. Our CESSNA Vintage Reissue Licensed Products are a salute to this legendary icon of aviation. SIZE: One Size COLOUR: Heritage Red
PN 13-05346



STEARMAN C CAP - The Boeing Stearman model 75 series aircraft were built between 1936 and 1945 as military trainers. 8500 of these classic, lusty biplane warriors were produced with around 2000 still flying today. After WWII hundreds of Stearmans were sold as surplus for between \$200 and \$500 each. The stearman remains an enduring icon of US aviation heritage. SIZE: One Size COLOUR: Navy
PN 13-05347



US AIR SERVICE - As a pilot you have joined the ranks of those less bound by conventional limits on time, distance and personal freedom. The US Air Service logo signifies this and reminds us that with this 'gift of flight' comes a responsibility to serve others should an emergency we can help with call us to duty. SIZE: One Size COLOUR: Tan
PN 13-05348



UNITED STATES ROUNDEL - As a pilot you have joined the ranks of those less bound by conventional limits on time, distance and personal freedom. The US Air Service logo signifies this and reminds us that with this 'gift of flight' comes a responsibility to serve others should an emergency we can help with call us to duty. SIZE: One Size COLOUR: Navy
PN 13-05349
Burnt Yellow PN 13-05350



CESSNA FULL IP JACKET
CESSNA Vintage Reissue Licensed Products are a salute to this legendary icon of aviation. COLOR: Washed Blue.

Si e	Part No.	Price
Small	13-05338	.
Medium	13-05339	.
Large	13-05340	.
X-Large	13-05341	.
XX-Large	13-05342	.

RED CANOE T-SHIRTS

These 100% "Ungeneric" Cotton T-shirts are specially made to your fit, colour and quality specifications. All shirts are washed after printing - eliminating shrinkage and adding vintage appeal. Some customers save the shirts for special occasions so they'll last a lifetime! We recommend acquiring spares!



AMERICAN AIRLINES 50 - AA Vintage Reissue Licensed Products feature the historic icons, colours and logo application techniques like layered cut felt. Color: Washed Blue.

Si e	Part No.	Price	Si e	Part No.	Price
Small	13-05281	.	X-Large	13-05284	.
Medium	13-05282	.	XX-Large	13-05285	.
Large	13-05283	.			



BELL HELICOPTER - Bell Aircraft Corporation had originally only produced airplanes, including the famous Bell X-1. The Bell Model 47 became the first helicopter rated by a civil aviation authority in the world and would become a civilian and military success. Color: Washed Blue

Si e	Part No.	Price	Si e	Part No.	Price
Small	13-05286	.	X-Large	13-05289	.
Medium	13-05287	.	XX-Large	13-05290	.
Large	13-05288	.			



CESSNA CHEVRON - CESSNA Vintage Reissue Licensed Products are a salute to this legendary icon of aviation. Color: Washed Blue.

Si e	Part No.	Price	Si e	Part No.	Price
Small	13-05296	.	X-Large	13-05299	.
Medium	13-05297	.	XX-Large	13-05301	.
Large	13-05298	.			



CESSNA PLANE - CESSNA Vintage Reissue Licensed Products are a salute to this legendary icon of aviation. Color: Heritage Red.

Si e	Part No.	Price	Si e	Part No.	Price
Small	13-05302	.	X-Large	13-05305	.
Medium	13-05303	.	XX-Large	13-05306	.
Large	13-05304	.			



STEARMAN C - After WWII hundreds of Stearmans were sold as surplus for between \$200 and \$500 each. The stearman remains an enduring icon of US aviation heritage. Color: Washed Blue.

Si e	Part No.	Price	Si e	Part No.	Price
Small	13-05307	.	X-Large	13-05310	.
Medium	13-05308	.	XX-Large	13-05311	.
Large	13-05309	.			



US AIR SERVICE - The US Air Service logo signifies this and reminds us that with this 'gift of flight' comes a responsibility to serve others should an emergency we can help with call us to duty. Color: Washed Blue.

Si e	Part No.	Price	Si e	Part No.	Price
Small	13-05317	.	X-Large	13-05320	.
Medium	13-05318	.	XX-Large	13-05322	.
Large	13-05319	.			



US ROUNDEL - Our USR caps and T shirts feature a version of a US Roundel circa pre WWII. Color: Burnt Yellow.

Si e	Part No.	Price	Si e	Part No.	Price
Small	13-05325	.	X-Large	13-05335	.
Medium	13-05330	.	XX-Large	13-05337	.
Large	13-05332	.			

FOR MORE RED CANOE APPAREL AND ACCESSORIES PLEASE VISIT OUR WEBSITE AT:

www.aircraftspruce.com

PS

TRINTEC AVIATION GIFTS

TRINTEC WALL CLOCKS & THERMOMETERS



These 6.5"x 6.5" aviator wall clocks and thermometers are accurate oversized reproductions of typical aircraft instruments. The final touch to your office or study decor. The clocks feature an accurate quartz movement and the thermometer reads air temp. in both Fahrenheit and Centigrade. All operate on AA batteries (not included).
 Directional Gyro Wall Clock (pictured) P/N 13-00529
 Artificial Horizon Wall Clock P/N 13-00531
 VOR Wall Clock P/N 13-09064
 Airspeed Indicator Thermometer P/N 13-32130
 Altimeter/Airspeed Thermometer P/N 13-02198



TRINTEC DESK ALARM CLOCKS

These Desk model alarm clocks measure 3.5"x 3.5" and are a unique addition to any office or den. They feature an accurate quartz movement and are excellent reproductions of typical aircraft instruments. A great gift for any pilot of aviation enthusiast.

Altimeter Desk Model Alarm Clock P/N 13-09070
 Directional Gyro Desk Alarm Clock P/N 13-09075
 Horizon Desk Model Alarm Clock P/N 13-09085
 VOR Desk Model Alarm Clock P/N 13-09080

TRINTEC ALARM CLOCK/DESK PEN SETS

Alarm clock: 3.5"x3.5" – Pen set base: 2-1/8" x 7.25"

ALTIMETER

P/N 13-02091



DIRECTIONAL GYRO

P/N 13-02092



VOR

P/N 13-02094



HORIZON

P/N 13-02093



DISPATCH WALL CLOCKS

Two separate hour hands can be set independently. The 12 hour hand indicates local time. The (red) 24 hour hand can be set to indicate local 24 hour time, Zulu, GMT or UTC time.



Dual Time
12/24 Black
P/N 13-02098



Dual Time
12/24 White
P/N 13-02099



Dual Time
12/24 Wht Inner
P/N 13-02101



Dual Time 12/24
Black Inner
P/N 13-02102

TRINTEC AVIATOR KEY CHAINS

Plastic frame: 1.5" x 1.5"



Altimeter
P/N 13-02103



Airspeed
P/N 13-02104



Directional Gyro
P/N 13-02105



VOR
P/N 13-02107



HSI
P/N 13-02108



HSI
P/N 13-02109



Horizon
P/N 13-02106



Horizon
P/N 13-02111



Rnd.
Altimeter
P/N 13-04804



Airspeed
Indicator
P/N 13-04805



Directional
Gyro
P/N 13-04806



Horizon
P/N
13-04807

TRINTEC AVIATOR FRIDGE MAGNETS



Altimeter
13-02112



Airspeed
13-02113



Dir. Gyro
13-02114



Horizon
13-02115



VOR
13-02116



HSI
13-02117



Altimeter
13-04798



Airspeed
13-04799



Dir. Gyro
13-04801



Horizon
13-04802

DELTA AIR LINES BOEING 777 JIGSAW PUZZLE



Both puzzle and box use textured linen paper. There are 513 pieces (bagged) and it measures 21.25" X 15" assembled. Superior quality with images that will make them highly collectible. The puzzles are manufactured with a low-dust process and from some of the thickest puzzle board in the industry. P/N 13-04056.....

PS

TRINTEC AVIATION GIFTS

100TH ANNIVERSARY OF FLIGHT COLLECTION

On December 17, 1903, Orville Wright flew for only twelve seconds. But in those brief moments, he and his brother Wilbur accomplished what man had dreamed of for centuries.

CLOCKS - These 10" diameter wall Clocks and Thermometers feature images capturing the First Flight in History and are equipped with a durable plastic frame and lens. The Accurate US made quartz clock movement requires one (1) AA size battery (not included).



P/N 13-02143



P/N 13-02144



P/N 13-02145



P/N 13-02146



P/N 13-02147



COASTER SET - This Coaster Set features four vibrant images depicting scenes of the First Flight in history. The coasters are made of tough and scratch resistant acrylic and have non-slip rubber feet that will help to protect the surface of your furniture.

P/N 13-02148



MOUSE PADS - These 9"x7.5" Mouse Pads feature high resolution images capturing the First Flight in History and are equipped with a black no-slip base.

P/N 13-02149

P/N 13-02151

P/N 13-02149 P/N 13-02151



TRINTEC 10" AIRCRAFT WALL CLOCKS

10" diameter wall clock Popular aircraft designs by Labusch Skywear Designs. Quartz Clock Movement. Requires one AA size battery.

ALL CLOCKS

Model	Part No.	Model	Part No.
Vulcan	13-02154	FW190 Focke-Wulf/ BF109 Messer.	13-02152
F-16 Thunderbird	13-02155	P-51 Mustang	13-02169
Halifax	13-02158	SR71 Blackbird	13-02157
deHavilland Beaver	13-02159	Douglas DC-3	13-02170
F-4 Phantom	13-02160	F-14 Tomcat	13-02171
F4U Corsair	13-02161	F6F Hellcat	13-02172
F-16 Falcon	13-02164	CF105 Arrow	13-02173
BF109 Messerschmitt	13-02165	P-40 Warhawk	13-02174
B-17 Flying Fortress	13-02166	Mosquito	13-02176
A-10 Thunderbolt	13-02167	Corsair	13-02177
J-3 Piper Club	13-02168	Blue Angels	13-02178
Lancaster	13-02153	Strike Eagle	13-02179
F15E Strike Eagle	13-04850	Spitfire	13-02180
B29/X10	13-04852	English Electric Lightning	13-04851
N. Amer. Harvard	13-04854	F18 Hornet	13-04853
deHavilland Otter	13-04856	Norseman	13-04855
B-25 Mitchell	13-04858	B-24 Liberator	13-04857
		Spitfire	13-04859

TRINTEC COASTER SETS



P/N 13-02133



P/N 13-02134



P/N 13-04871



TRINTEC MOUSE PADS



P/N 13-02127



P/N 13-02129



P/N 13-02131



P/N 13-02132



P/N 13-02128



P/N 13-02130

FIRST IN FLIGHT (LICENSE PLATES)



These plates were issued by the state of North Carolina and are no longer available. "First in Flight" license plates illustrate the Wright Brothers first flight in North Carolina.

P/N 13-03203

PS

TRINTEC AVIATION GIFTS

TRINTEC 14" AIRCRAFT WALL CLOCKS



14" diameter Wall Clock popular aircraft designs. Quartz Clock Movement. Requires one AA size battery. These 14" clocks are .

Model	Part No.	Model	Part No.
J-3 Piper Cub	13-04819	deHaviland Beaver	13-04820
Lancaster	13-04821	Norseman	13-04822
Stearman	13-04823	otter	13-04824
Spitfire	13-04825	First Flight(shown)	13-04826



TRINTEC ZULU TIME CLOCKS

Zulu Time Clock allow you to independently set a 12 hour time scale as well as a 24 hour time scale.

Description	Part No.	Price
Zulu Time 24 Hour wall clock 14" frame, white face	13-04860	.
Zulu Time wall clock, 14" frame, black face	13-04861	.
Zulu Time wall clock, 14" frame, white face	13-04862	.
Zulu Time wall clock, 14" frame, white face, black trim	13-04863	.
Zulu Time wall clock, 14" frame, black face, white trim	13-04864	.
Zulu Time wall clock, 10" plastic frame, black face	13-04865	.
Zulu Time wall clock, 10" plastic frame, white face	13-04866	.
Zulu Time wall clock, 10" frame, white face, black trim	13-04867	.
Zulu Time wall clock, 10" frame, black face, white trim	13-04868	.

WORLD TIME CLOCK



P/N 13-05706

14" Diameter Metal Frame with Antique Brass Finish. Whether you need to know the time on the other side of the country or the other side of the World, this is the clock for you. This unique wall clock features a map of the world with the 24 major time zones that rotates all day along with the Earth. The clock's hour and minute hands point to the outer time scale providing your local time while the inner time scale lets you know the time almost anywhere in the World.

14" World Clock.....P/N 13-05706.....



P/N 13-04870

10" Diameter Black Plastic Frame with Clear Plastic Lens. Its like having 24 clocks in one. Whether you need to know the time on the other side of the country or the other side of the World, this is the clock for you. This unique wall clock features a map of the world with the 24 major time zones that rotates all day along with the Earth. The Inner Time Scale also shows Night & Day 10" Diameter Frame with Lens cover, Depth: 2"

TRINTEC AVIATOR WALL CONSOLE



Two of our popular Wall Clocks mounted together on a display panel. Panel is made of High Impact Polystyrene | 7.5" x 15" |. Displays time and indoor temperature |.

Directional Gyro Wall Clock/Airspeed Thermometer P/N 13-04816

Horizon Wall Clock/Airspeed Thermometer P/N 13-04817

VOR Wall Clock/Airspeed Thermometer P/N 13-04818



TRINTEC ZULU TIME CLOCKS

Zulu Time Clock allow you to independently set a 12 hour time scale as well as a 24 hour time scale.

P/N 13-04872

TRINTEC CESSNA PRODUCTS



Description	Part No.	Price
Cessna Altimeter Wall Clock	13-04827	.
Cessna Altimeter Alarm Clock	13-04828	.
Cessna Altimeter Desk Pen Set	13-04829	.
Cessna Classic Instrument Coaster Set	13-04830	.
Cessna Round Acrylic Coaster Set	13-04831	.
Skyhawk 172 Mousepad	13-04832	.
Skylane TC 182 Mousepad	13-04833	.
Cessna Citation CJ3 Mousepad	13-04834	.
Cessna Citation X Mousepad	13-04835	.
Cessna Citation Sovereign Mousepad	13-04836	.
Cessna 26" Propeller Clock	13-04837	.
Citation Sovereign T-Shirt - Black (L)	13-04839	.
Citation Sovereign T-Shirt - Black (XL)	13-04838	.
Citation X T-Shirt - Black (L)	13-04840	.
Citation X T-Shirt - Black (XL)	13-04841	.
Citation CJ3 T-Shirt - Black (L)	13-04842	.
Citation CJ3 T-Shirt - Black (XL)	13-04843	.
Cessna Skyhawk T-Shirt - Black (L)	13-04844	.
Cessna Skyhawk T-Shirt - Black (XL)	13-04845	.
Cessna Skylane TC T-Shirt - Black (L)	13-04846	.
Cessna T-Shirt Raised Logo - Black (L)	13-04848	.
Cessna T-Shirt Raised Logo - Black (XL)	13-04849	.

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. When ordering please provide: aircraft specifications, propeller description, aircraft colors, and registration information. You will also need to specify the logo and inscription plate text.

P/N 13-06837

TRINTEC BEER MUGS



Description	Part No.	Price
Bad Attitude Beer Mug	13-04815	.
Watch Your Attitude Beer Mug	13-02124	.
Do It Inverted Beer Mug	13-02125	.
Mile High Beer Mug	13-02126	.

WARBIRD WALL CLOCKS

WARBIRD WALL CLOCKS

These large 14" all metal collector wall clocks are produced using a revolutionary new technology that permanently imbeds the image right onto the surface of the metal dial. A perfect blend of that nostalgic 40's style look with today's high quality graphic standards. For added authenticity, the clock face is set into an aluminum riveted case with dome polished crystal. 1yr warranty. (Requires 1 AA battery, not included.) ALL CLOCKS



PT-17 Kaydet
P/N 13-02576



B-17 Flying Fortress
P/N 13-02577



P-51 Mustang
P/N 13-02578



C-47 Skytrain
P/N 13-02579



F-4 Phantom
P/N 13-02580



AH-64 Apache
P/N 13-02581



FA-18 Hornet
P/N 13-02582



307 Stratoliner
P/N 13-02583



707 Jetliner
P/N 13-02584



747 Jetliner
P/N 13-02585



DC-10 Jetliner
P/N 13-02586



777 Jetliner
P/N 13-02587



P-38 Lightning
P/N 13-02590



Beautiful View
P/N 13-02591



PBV Catalina
P/N 13-02592



Memphis Belle
P/N 13-02593



Flying Fortress
P/N 13-02595



P-40 Warhawk
P/N 13-02596



Ready To Ride
P/N 13-02597



Bombs Away Baby
P/N 13-02598



B-29 Bomber
P/N 13-02599



Eye Candy
P/N 13-02601



Come Home Soon
P/N 13-02602



P-38 Gold
P/N 13-02604



Wings for Victory
P/N 13-02605



F-14 Tomcat
P/N 13-02606



P-51 8th
P/N 13-02607



F4U Corsair
P/N 13-02608



B-24 Liberator
P/N 13-02609



P-38 Lightning
P/N 13-02611



Uncle Sam
P/N 13-02612



Rosie the Riveter
P/N 13-02613



Semper Fidelis
P/N 13-02614



Stearman
P/N 13-02615



Black Widow
P/N 13-02618



B-17 Flying
P/N 13-02619



B-25 Mitchell
P/N 13-02621



B-29 Super Fortress
P/N 13-02622



C-47 Skytrain
P/N 13-02623



P-51 Mustang
P/N 13-02624



SBD Dauntless
P/N 13-02626



SNJ-5
P/N 13-02627



F-86 Sabre Jet
P/N 13-02628



U.S. Army
P/N 13-02631



U.S. Navy
P/N 13-02632



U.S. Air Force
P/N 13-02633



U.S. Marines
P/N 13-02634



Spitfire MK
P/N 13-02636



Mosquito MK II
P/N 13-02638



Junkers Ju 88A-4
P/N 13-02641



Me 262A-2a
P/N 13-02642



Me 109
P/N 13-02643



Ju87B-2 Stuka
P/N 13-02644



Zero A6M
P/N 13-02646



Fokker Dr1
P/N 13-02647



Bristol F2B
P/N 13-02639



PILOT LICENSE PLAQUES

PILOT PLAQUES

Looking for truly unique awards that document and display your noteworthy aviation accomplishments – or those of someone you know? Whether it is a gift for a pilot to proudly display his/her achievements or a service award to recognize an air traffic controller, these plaques are the perfect choice. To place your order, simply select your plaque below and provide us the pertinent customizing data. We'll process your request with care and contact you with any questions. In approximately two weeks your order will arrive.



Model: ME-W8-2 Size: 8" x 10"
P/N 13-06143



Model: NEVL-2 Size: 8" x 10"
P/N 13-06148



Model: DPLT028L-2 Size: 8" x 10"
P/N 13-06152



Model: FP810 Size: 8" x 10"
P/N 13-06156



Model: ME-W8-3 Size: 8" x 10"
P/N 13-06144



Model: NEVL-3 Size: 8" x 10"
P/N 13-06149



Model: DPLT028L-3 Size: 8" x 10"
P/N 13-06153



Model: ML912-3 Size: 9" x 12"
P/N 13-06157



Model: CRM8-2 Size: 8" x 10"
P/N 13-06146



Model: CH810-2 Size: 8" x 10"
P/N 13-06150



Model: FT4860M-2 Size: 8" x 10"
P/N 13-06154



Model: AV-B07 Size: 7" x 9"
P/N 13-06158



Model: CRM8-3 Size: 8" x 10"
P/N 13-06147



Model: CH810-3 Size: 8" x 10"
P/N 13-06151



Model: FT4860M-3 Size: ..8" x 10"
P/N 13-06155

PILOT LICENSE WALL PLAQUES

5 x 7 Standard



5 x 7 Elliptical



7 x 9 Standard



New Format



7 x 10 Floating

These are custom Pilot License Wall Plaques made out of fine wood and can be hung on your home or office wall. Show others that you are a proud licensed pilot.

To order: Make a clear photo copy of front and back of license. Sign a blank sheet of paper. After selecting the size of your wall plaque, please select what type of metal: silver or gold.

Description	Part Number	Price
5 X 7 SOLID WALNUT - LICENSE WALL PLAQUE	13-06046	
5 X 7 DELUXE ELLIPTICAL SOLID WALNUT LICENSE WALL PLAQUE	13-06047	
7 X 9 SOLID WALNUT - LICENSE WALL PLAQUE	13-06048	
7 X 9 DELUXE FLOATING - LICENSE WALL PLAQUE	13-06049	

COCKPIT COOLERS - LICENSE PLATE FRAMES

COCKPIT COOLERS

Heat getting you down? Have you been wishing there were a way to efficiently and quickly cool your airplane's cabin? If you answered "yes" to either of those questions, then you need the Cockpit Cooler to make your trips comfortable!



MODEL AP - 100 14V/28V

For the cooling process, the unit creates ice-chilled air, followed by evaporated water, drawn through a saturated media filter. The high-volume, high-velocity air is drawn in through and around the ice. As the ice melts, it absorbs heat and creates chilled water. The chilled water evaporates and absorbs heat further. The cool air is circulated in the cabin by the high-volume blower at 250 cfm.

- * The model is small. It cools with a high-volume blower at 250 cfm.
- * 7.5" by 16.5" by 18.5" and is a mere 9.5lbs
- * Provides plenty of cool time for most general aviation aircraft at taxi, takeoff and landing.
- * In arid climates, there was a measured drop of nearly 18 degrees inside the cabin.
- * Being so small, there is still plenty of cargo space and useful load.

MODEL AP - 200 14V/28V

The model AP 200 utilizes the same ice chilled refrigerated air conditioning system as used in many commercial buildings, only on a micro scale. Stored coolant pumps through a high efficiency heat exchanger. A high-volume blower moves air throughout the cabin. Condensation of moisture from cabin air on the exchanger coils is retained in the unit reservoir. This unit reduces moisture levels since it relies on refrigerated air conditioning instead of evaporative cooling.

- * The model cools with a high-volume blower at 250 cfm for a comfortable dry chilled flow.
- * 7.5" by 16.5" by 18.5" and is a mere 10.2lbs
- * Provides even more cool air time than Model 100 due to its more efficient use of air conditioning
- * A larger reservoir may be purchased to increase cooling time by several hours.
- * Being so small, there is still plenty of cargo space and useful load.

Description	Part No.	Price
COCKPIT COOLER AP-100 14V	13-05784	
COCKPIT COOLER AP-100 28V	13-05784-1	
COCKPIT COOLER AP-200 14V	13-05785	
COCKPIT COOLER AP-200 28V	13-05785-1	

POL-AIR B310 PORTABLE AIR CHILLER SYSTEM



Four years of research by Pol-Air has resulted in the patented proprietary turbine pump for the B310 and is the heart of the new technology. This pump is powered by an ultra-efficient high speed DC brushless motor and can produce up to 3.5 inches of water pressure at 14.3 CFM in the 12vDC units, and 4.5 inches of water pressure at 20.5 CFM in the 24vDC units. This pressure delivers cool dry airflow through 1.25" diameter featherweight EPE hoses

to the front edge of passenger seats or directly under your shirt, making microenvironmental cooling possible for up to four people.

Why you get 70° F (or cooler) dry air with half the humidity of outside air? We draw air through ice alone (no water). When you draw air through ice you lower humidity. When you blow air through water, like a swamp cooler, you increase humidity. This is not a swamp cooler. Water is eliminated from the system.

As humid air passes through ice, water vapor will condense and plate out on the ice and drips out of the system through the drain with the liquid ice melt. Thus the air produced has usually half (or less) of the humidity of the ambient air. Instinctively, you know this, as the driest place on earth is Antarctica. Water vapor there can only exist as ice crystals in the air. Humidity is usually 0.5% to 1.5%!

12V P/N 13-05074
24V P/N 13-05075

LICENSE PLATE FRAMES AND LICENSE PLATES



High quality metal frame. Chrome with blue & white enamel.
P/N 13-06227



High quality metal frame. Chrome with blue & white enamel.
P/N 13-06228



High quality metal frame. Chrome with blue & white enamel.
P/N 13-06229



High quality metal frame. Chrome with blue & white enamel.
P/N 13-06231



High quality metal frame. Chrome with white & blue enamel.
P/N 13-06232



High quality molded on Black plastic frame with white lettering.
P/N 13-06233



High quality stamped aluminum plate white and blue enamel
P/N 13-06235



FLY design. High quality stamped aluminum plate white and black enamel
P/N 13-06236

PS

FUEL GAUGES - BIRD DETERENTS

DIRECT FUEL LEVEL INDICATORS

These Direct Fuel Level Indicators are quality made of acrylic PVC tube with an aluminum scale. They are available calibrated to individual tanks or uncalibrated for custom calibration to home built tanks. These Indicators allow an accurate check of on board fuel level indicators and eliminate the guess work.

Description	Part No.	Price
Fuel Level Indicator C-150/C-152 +	12-21200	
Fuel Level Indicator C-150 LONG 19	12-21205	
Fuel Level Indicator C-170 / C-172	12-21210	
Fuel Level Indicator C-172 34G	12-21215	
Fuel Level Indicator 1958+ C182 32 GAL	12-21225	
Fuel Level Indicator C-182 42G	12-21230	
Fuel Level Indicator C-210 45G	12-21240	
Fuel Level Indicator PA-24 30G	12-21245	
Fuel Level Indicator 7KCAB	12-21250	
Fuel Level Indicator PA-28	12-21255	
Home Built Universal Fuel Level Indicator CK Rod	12-21260	

FUEL HAWK FUEL GAUGES



The Fuelhawk is just 11" long, clear lightweight and unbreakable. It's easy to use and gives an instant readout in gallons usable. No more guessing. These handy devices offer the answers to these very important questions: 1.How many gallons of

usable fuel are remaining in the tank? 2.How much fuel can be added without going over gross weight? 3. Are the aircraft fuel gauges working & accurate?

Part No.	Application	Price
13-00443	Cessna 152 (standard 12 gal. tanks)	
13-00442	Cessna 172 (standard 19 gal. tanks)	
13-01468	New Cessna 172 Skyhawk (26.5 gal.)	
13-01469	New Cessna 182 Skylane (43.5 gal.)	
13-00441	Cessna 182LR (42 gal. Long range tanks)	
13-00439	Universal for any aircraft, w/graph & calibration chart	
13-00949	Universal XL Fuel Gauge (16" long)	

TANA WIRE MARKERS

Tana Wire Markers are large fiberglass balls which can be attached to power lines to warn aircraft of the location of the wires. They meet FAA specifications, feature easy installation and universal attachment, withstand 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.

- 12" diameter with Tape P/N 13-00057
- 20" diameter with Tape P/N 13-00058
- 24" diameter with Tape P/N 13-00059
- 12" diameter w/o Tape P/N 13-00054
- 20" diameter w/o Tape P/N 13-00055
- 24" diameter w/o Tape P/N 13-00056

WIRE MARKERS

CPS-S STANDARD MOUNTING MARKER - The Standard power line Marker is made of ABS plastic & fits wires up to 1" using two neoprene bushings

CSP-EZS RECESSED MOUNTING AREA & CSP-EZC RECESSED MOUNTING AREA W/ CLAMP - The EZ line of Markers is made of ABS plastic & is new & improved with a larger recessed area around the four bolts making it easier to install with linemen gloves. The EZ-S still uses two neoprene bushings & fits wires up to 1". The CSP-EZC comes with an aluminum clamp with stainless steel bolts & fits wires up to 1". Both of these styles use 1" nuts.

CSP-SAR STANDARD MARKER WITH ARMOR ROD - This marker is equipped with two sets of armor rod set into a bracket & can be bolted to the inside or outside of the marker. All Markers can be made to fit larger diameter wires.

Dia	CSP-S		CSP-EZS		CSP-EZC		CSP-SAR	
	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
9 inch	-	-	13-06725	.	13-06741	.	13-06748	.
12 inch	-	-	13-06727	.	13-06742	.	13-06749	.
20 inch	13-06731	.	13-06728	.	13-06743	.	13-06750	.
24 inch	13-06737	.	13-06729	.	13-06744	.	13-06751	.
30 inch	13-06738	.	-	-	13-06745	.	13-06752	.
36 inch	13-06739	.	-	-	13-06746	.	13-06753	.

FOLDING AIRCRAFT STEP STOOL



This sturdy step stool is made of oak veneer over hardwood and provides a spacious 11"x11" square standing area. The stool is 16" high and features non-skid strips on the standing area. The precision crafted stool opens and closes easily and measures only 2"D x 12"W x 19"L when folded for storage in baggage compartment or under the seat of your aircraft. Weighs only 4lbs. Lightweight, compact, and very strong, this stool is idea for use around general aviation aircraft. P/N -13-04281

SUPERLITE FOLDING HAND TRUCK



The Superlite Folding hand truck is great for use in general aviation aircraft, airline travel, office, sports, and more. It's push-of-a-button fold-up frame and aluminum construction allows for easy storage and transportation. The large 19"W x 12"D nose and elastic straps allow for moving heavy and bulky objects. Strong enough to handle 175 lbs. Fits easily in an aircraft baggage compartment or a car trunk. Extended dims: 42"x19"x19". Folds to 29.5"x19"x2". P/N 13-00893

BIRD DETERRENT

BIRD PELLER PRO VOL.



The BirdXPeller Pro uses actual species-specific distress cries and can be set for any or all of a variety of birds including pigeons, sparrows, starlings and gulls. Volume, time-off periods, and random calls can be varied to keep the birds away. The unit measures 10" x 3" x 10" and weighs 4 lbs. The directional speakers cover up to an acre in an oval pattern. The unit comes with an AC adapter cord but can run off a 12 volt DC battery if needed. NOTE:Vol.1 is only for pigeons, starlings, sparrows and gulls. P/N 13-00091

ARROWPROP DECORATOR PROP CLOCKS

Choose from:
Quartz Clock (Q)
Weather Station (W)
Weather station contains a thermometer, hygrometer, & barometer in 1 instrument.



Quartz Clock



Weather Station

PIPER CUB PROPELLERS



Laminated hardwood reproduction of the propeller used on the Piper Cub airplane. With a high gloss finish, red tips, and cub decals. Quartz Clock (Q) or Weather Station (W).

ITEM P/N PRICE ITEM P/N PRICE
52" Prop w/Q 13-32170-Q 65" Prop w/Q 13-32171-Q

52" Prop w/W 13-32170-W 65" Prop w/W 13-32171-W

AIRCRAFT PROPELLER



Beautiful reproduction of an early day aircraft propeller like those used on the Piper Cub, Aeronca, Taylorcraft and others. Constructed of laminated hardwood with clear finish, red tips and simulated brass tipping on the propeller blades. Quartz Clock (Q) or Weather Station (W).

52" Prop w/Q 13-32175-Q 65" Prop w/Q 13-32176-Q

52" Prop w/W 13-32175-W 65" Prop w/W 13-32176-W

LINDBERG PROPELLER



This 50" propeller is a scaled reproduction of the propeller used by Colonel Lindbergh on his Sperry Messenger airplane. With Quartz Clock (Q) or Weather Station (W). Available in clear(C) or beautifully stained (S) finish.

50" Prop w/Q 13-32180-CQ

50" Prop w/Q 13-32180-SQ

50" Prop w/W 13-32180-CW

50" Prop w/W 13-32180-SW

REPLICA PROPELLER LETTER OPENER



Own a bit of aviation history with our unique letter opener. A mini replica of the Hamilton Standard steel propeller used on Charles Lindbergh's

"Spirit of St. Louis". 9" long, it has a chromed hand polished handle, is cast to highest quality metal standards with authentic Hamilton Standard decals on the blade. Shipped in elegant gift box

P/N 9925

PEDAL PLANES - SCOOTERS

R V SPORT PEDAL PLANE KIT



The RV-Sport is a miniature homebuilt airplane which is a great learning experience for parents and children and when completed is a unique pedal powered toy for kids. It was engineered with the builder and the youngster in mind. The simple construction will exercise your skills in basic woodworking, sheet metal, fitting and gluing plastic, finish painting, and detailing. Your completed RV-Sport will be a rugged, realistic toy that is sure to be a hit with every kid on the block. The RV-Sport is built using basic shop tools, and is the ideal "mini-homebuilt" for homebuilders and pilots of all ages! Purchase just the plan set with assembly manual and information updates or the complete kit which includes these items plus hardware, plastic items, & finish decal set.

Complete Plans SetP/N 13-30715



F4U-1 CORSAIR JR. PEDAL PLANE KIT FOR KIDS

The F4U-1 Corsair Jr. is a miniature homebuilt airplane which is a great learning experience for parents and children and when completed is a unique pedal powered toy for kids. The Corsair Jr. is built using basic shop tools and is sure to be the hit with every kid on the block. The simple construction will exercise your skills in basic woodworking, sheet metal, fitting & gluing plastic, finish painting, & detailing. The F4U-1 Corsair Jr. is available in following kits:

Plans and Patterns onlyP/N 13-30730

Plastic Kit onlyP/N 13-30735

Hardware, landing gear, steering, folding with hinges, fasteners
P/N 13-30740

Complete Construction Kit.....P/N 13-30745

Note: The plastic Kit Only is highly recommended when you order the plans due to the great amount of detail required to achieve the real F4U look. The plane can be built without the Plastic Kit but it will take longer.



HITCH COVERS



Description	Part No.	Price
Remove Before Flight Cover	13-03545	.
AJO Black Oval 2" Hitch Cover	13-04004	.
B25 Black Oval 2" Hitch Cover	13-03530	.
T6 Black Oval 2" Hitch Cover	13-03531	.
P17 Black Oval 2" Hitch Cover	13-03532	.
B17 Black Oval 2" Hitch Cover	13-03533	.
PA-18 Black Oval 2" Hitch Cover	13-03534	.
L19 Black Oval 2" Hitch Cover	13-03535	.
B24 Black Oval 2" Hitch Cover	13-03536	.
P25 Black Oval 2" Hitch Cover	13-03537	.
T28 Black Oval 2" Hitch Cover	13-03538	.
L29 Black Oval 2" Hitch Cover	13-03539	.
T34 Black Oval 2" Hitch Cover	13-03540	.
L39 Black Oval 2" Hitch Cover	13-03541	.
P51 Black Oval 2" Hitch Cover	13-03542	.
QH-6A Black Oval 2" Hitch Cover	13-03543	.
Remove for River Hitch Cover	13-03544	.
Mohawk 2" Hitch Cover Black	13-03546	.



YOUR (N) NUMBER - TRAILER HITCH COVER

Call for Quote and provide us with your "N" number. 2" Oval Hitch Cover.
P/N 13-04737 CALL FOR QUOTE



T-3 2 INCH RECEIVER LOCK

Receiver locks prevent your hitch cover, or step hitch from being stolen.

P/N 13-03529.....

GO-PED LIGHTWEIGHT MOTOR ED SCOOTER



The patented Go-Ped design combines a strong chromoly frame with a lightweight folding handle system to achieve maximum strength along with portability. The sturdy frame has an electrostatic powder coat finish. Go-Ped weighs only 20lbs but can support up to 400lbs. Powered by a precision 2-stroke engine that quietly propels itself at speeds of up to 20 mph, the Go-Ped has the ability to conquer steep hills. Its tires are fabricated of a very resilient natural rubber which will never go flat. The Go-Ped averages well over 100 MPG on pre-mixed unleaded gas. Due to a very low center of gravity, riding the Go-Ped is easier than riding bicycle. To start your Go-Ped just step on and push or pull forward. The Liquidmatic Go-Ped is ideal for the crowd that appreciates or needs a unique ultra-smooth hydraulic automatic transmission. The Liquidmatic is available in Yellow with Purple accents. The Go-Ped folds as quickly and as easily an umbrella for storage and fits in the optional carry bag, which doubles as a cargo carrying backpack. With a space displacement of only 2.5 cubic feet, the Go-Ped can be easily stored in your car, boat, motorhome or airplane. Features:
* 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 mpg * 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 * Folding Effortless folding feature for easy storage and carrying * Suggested Useage: City / Cruising
Go-Ped (Sport Model) Blue..... P/N 13-08380

PRO PILOT LANYARD KIT



* Lanyard: The all black heavy duty detachable nylon lanyard is 20 inches in length from the top of the lanyard to the bottom of the J-hook. The detachable portion is short in length (approximately 2 1/2 inches)
* Flashlight: The black and silver Garrity Lithium L.E.D. is the brightest, whitest single light available. It features an L.E.D. light. It provides years of intermittent light or more than 23 hours of continuous light. The Diode lasts 100,000 hours. It has an on-off switch or simply press down on the center of the "on-off switch" for intermittent lighting. 2 lithium button-cell batteries are included. The flashlight attaches to the J-hook.
* Badge clip/ universal grabber: The alligator-type badge clip has a black strap (snaps open and closed) permanently fixed to it that swivels. Connected to the strap is an optional black universal grabber (included) for badges without a slot hole, withstanding up to 5 pounds of vertical force and more than 5 pounds of horizontal force.
* Earplugs: The Howard Leights NRR (Noise Reduction Rate) is 33 decibels. Highest rated disposable ear plugs on the market. Tie it to the top portion of the lanyard to always have instant access to the earplugs.
P/N 13-06336.....

PROPELLER CEILING FANS



This propeller ceiling fan is fitted with a custom made propeller especially crafted to work as a nostalgic and functional unit...they sound great too. The three speed fan with a light, will run in both forward and reverse and comes in gloss white with a white glass globe. The propeller is available in two shapes, the simple standard as well as in a scimitar shape (my favorite), both are dark stained and finished in a gloss urethane. The fan motor unit is a complete package inclusive of the typical four paddle blades. Includes simple instructions on how to mount and balance the custom hand made propeller in place of the four paddle blades.

Standard P/N 13-04048.....
Round Tip P/N 13-04049.....

CD-ROMS - SOFTWARE



"121.5" EMERGENCY DVD/VHS

Real life emergencies, actual ATC recordings! Hosted by TV personality and flight instructor MayCay Beeler, this unforgettable DVD features the actual ATC recordings of pilot and ground communications in real emergencies, brought to life with stunning animation and graphics. Listen, learn, and live.

"121.5" DVD P/N 13-02854
 "121.5" VHS P/N 13-02855



2009 PRO-FLIGHT LIBRARY CD

ASA provides the aviation community with the most accurate and reliable publications available. The 2009 Pro-Flight Library CD-ROM makes it even easier to access the world of aviation information with just the click of a mouse. This is the most comprehensive electronic aviation reference library available—all on a single CD-ROM—at a huge savings over the purchase of the individual books. The Pro-Flight Library CD lets aviators: * View the full text of all publications * Print text and graphics—from a single phrase to an entire publication * Find all newly-revised passages and view both the old and new text * Simultaneously search multiple publications * Instantly find any combination of words or phrases * Place electronic bookmarks for instant reference * Mark and save personalized notes—just as you would in a paper book
 System Requirements: Windows 2000, NT, XP, Vista (Home Premium 32bit).
 P/N 13-01077

2008 PREPWARE v.10

FAA Knowledge Exam prep software. Version 10 includes the new FAA Knowledge Exams released June 25, 2007 although the automatic update feature will keep customers current as new tests are released.

Private Pilot..... P/N 13-01078
 Instrument Rating P/N 13-01079
 Commercial Pilot..... P/N 13-01080
 Certified Flight Instructor P/N 13-01081
 Flight Engineer..... P/N 13-01082
 Airline Transport Pilot..... P/N 13-02565
 All 3 maintenance test P/N 13-01084

CD-POCKET

Durable vinyl pocket holds 2 CD-ROMs, 7 hole punched for binder. Set of 10.

P/N 13-62800

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 89B by AlliedSignal, Garmin GNS530, GPSMap 430, 295 or Apollo GX50/60 all on a single CD • Manufacturers' simulators and operating manuals included • FAA GPS reference materials included • Tutorial runs on both PC & Macintosh systems.
 P/N 13-01074

ASA Interactive Demo CD (includes OnTop, IP Trainer, PrepWare, GPS Trainer, Flight Library, & CX-2
 P/N 13-01631

MY KIT AIRPLANE SOFTWARE CD

Written for XP and VISTA

This is a complete new program written with Microsoft Visual Studio. A Real Windows Program! Fully tested in XP and VISTA! Does require XP to have SP2 installed.

Consists of several modules for individual functions. These modules include the Main Menu, Project Entry, Primary Project Selection, Construction Information Entry, Expense Entry, Flight Information Entry, Maintenance Information Entry, and Weight & Balance Tool. Also included are forms for entering Advisor and Category Information. The unique Suppliers Information form contains fields for just about any information you wish to keep track of. There is also a very complete FAA page that contains all the FAA information necessary for you to build, certify, and get your FAA Airworthiness Certificate for your Experimental or Light Sport Aircraft. In addition there is a very comprehensive file of information on Light Sport Aircraft and their construction and operation.
 P/N 13-04694

MECHANIC'S TOOLBOX CD

Software for the mechanic to help make your job easier! Also includes the Engineering Manual Companion, Part number cross-references Torque Wrench Extension Calculator Continental and Lycoming engine troubleshooting, Battery Tester, Slick magneto, Aircraft bolts, screws and rivets.
 P/N 13-03463

AIRCRAFT LOGS ONLINE PILOT LOGBOOK



AircraftLogs allows you to safeguard, organize, and simplify your maintenance logs, expense records and flight records. You will have secure and instant access to your records anywhere you have an Internet connection. You can also provide secure access to other pilots, your employees, your maintenance providers and others you authorize. A revolutionary solution

for managing flight logs, maintenance records and financial information is just a few clicks away. You have secure and instant access to your records from any Internet connection. Provide secure access to "other pilots, employees or maintenance providers. Finally, there's a solution to managing aircraft that fits the needs of private aircraft owners. Note: Annual subscriptions include 2 years of logbook transcription

Description	Part No.	Price
Logbook only - Monthly	13-06133	
Logbook only - Annual	13-06134	
Piston Single Management pkg - Monthly	13-06135	
Piston Single Management pkg - Annual	13-06136	
Piston Twin Management pkg - Monthly	13-06137	
Piston Twin Management pkg - Annual	13-06138	



THE NAVIGATION CD-ROM

The Navigation CD ROM teaches you VOR Navigation, NDB Navigation, HSI & RMI, GPS Navigation, & Airspace. You'll be prepared for action in the cockpit. Animation, sounds, quizzes and interactivity allow you to visualize navigation concepts while using simulations of actual aircraft equipment.

To make learning easy, each tutorial features an easy-to-use, point-and-click environment. If you can click a mouse, you can use these tutorials. No computer experience necessary. During each tutorial, your prompted where to click, when to proceed and what information to provide during quizzes. If you need more time learning a concept, it is easy as reviewing the section at hand. This CD-ROM features clearly written lessons, logical progression, quizzes, interactive equipment simulation, colorful graphics and animation. Navigation CD-ROM includes: • 5 interactive Multimedia Tutorials • 10 Hours of Narrated Instruction • 37 Instructional sections • 250 Original Graphics & Animations • 12 quizzes
 P/N 13-00892

VOR/NDB SIMULATOR V2.0



Enables you to practice real time VOR & NDB navigation on your computer! You don't have to worry about altitude control, radio communication, airspace, traffic or other major task 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 non distracting environment. The screen consists of several components: An airplane flying across the screen, VOR and NDBs, navigation and flight instruments and controls that enable you to specify aircraft direction, airspeed, wind component and other options. Your objective is to set the navigation instruments accordingly, and then turn the aircraft as needed to intercept and track VOR radials and NDB bearings. You can practice position finding, interception and tracking skills such as DME arcs & holding. Best of all you can create custom navigation scenarios by dragging the VORs, NDBs & airplane around the screen wherever you wish. Its all point & click!
 P/N 13-01437

GETTING AROUND ON THE GROUND



Teaches types of airport markings, signage and lighting. Goes beyond simple technical knowledge by outlining hazards, safety tips & procedures that will help keep you aware, knowledgeable & safe on the ground. Features:

- Full sound narration to make learning easy. Graphics that show the airport environment from ground view
- Skills for preventing runway incursions
- Complete descriptions and visuals of airport markings, signs, and lighting
- Methods of incorporating knowledge of markings, signs, and lighting in your flight operations
- Ground procedures
- Safety "Quick Tips" that you can use immediately
- Case Studies of real-world runway incursion incidents and accidents
- Printable documents from NASA and the FAA. Contains: • 3 hrs of narrated instruction
- 15 instructional sections • 125 original 3D graphics & animations • 40 quiz questions • 17 "Quick Tips"

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

PS

COMPUTER SOFTWARE



PANEL PLANNER INSTRUMENT PANEL DESIGN SOFTWARE

Panel Planner software gives you the power to design and build instrument panels in record time. Simply drag full-color, photo-realistic instruments, avionics, and cockpit controls into place on an aircraft panel template or photograph. Panel Planner tracks total cost, total weight, and peak current, generates and equipment list, and even prints actual-size hole-cutting templates and color mock-ups. Panel Planner is easy to install and use with its continuous context-sensitive help to guide you every step of the way. The updatable database includes equipment from King, Narco, Sigma-Tek, David Clark, P.S. Engineering, Insight, Garmin, IFR, II Morrow, UMA, Mitchell, Trimble, Arnav, S-Tek, Century, Vision Microsystems, Avidyne, Digifly, Skyforce, and many more; PLUS switches, lights, control cables, vents, circuit breakers, trim indicators, etc. Create labels, color-coded annunciators, or placards.

PANEL PLANNER PRO (2.9 VERSION)

Our largest update yet! Over 120 megabytes of updated instruments and panels. Panel Planner Pro is designed for the aircraft owner and the homebuilder. Panel Planner gives you the power to design and build instrument panels in record time. Simply drag full-color, photo-realistic instruments, avionics, and cockpit controls into place on an aircraft panel template or scanned photograph. Panel Planner tracks total cost, total weight, and peak current, generates an equipment list, and even prints actual-size hole-cutting templates and color mock ups with your desktop printer. Panel Planner Pro for Windows..... P/N 13-44415.....
Panel Planner Pro for Macintosh..... P/N 13-06210.....



JEPPESEN FLITESTAR FLIGHT PLANNING SOFTWARE

The current version of FliteStar calculates the optimum altitude based on total distance, winds aloft and your aircraft's performance. Experiment with different temperatures, power settings & altitudes and see their effects on performance. Comes with many popular aircraft already installed, including light piston, turbo-prop and jet aircraft. Do "what if" simulations, calculate weight & balance with graphic feedback. The only flight planner with the accuracy of a Jeppesen NavData database. You get every navigational chart at your fingertips. Zoom from continent-wide overviews down to half mile details. Roam across charts with a mouse, select way points by pointing and clicking. View victor airways, VORs, NDBs, intersections, airports, and frequencies. Enter winds for each flight leg, or retrieve them over your modem from Jeppesen. Do weight and balance, speeds, performance, and fuel burn with graphic feedback. Exclusive flight engineer module lets you do "what if" aircraft performance analysis. Optional subscriptions database updates from Jeppesen Sanderson. Change your route by "stretching" it to any other waypoints on the chart. Create user waypoints on the fly by just pointing at the area of the chart and holding Alt key. Find distance and radial from any point on chart to another point by simply pointing at each point on chart. Compute airway and MEAs between VORs for any route manually or automatically. Find common airways between any VOR and/or intersection. Enter winds for each flight leg, or retrieve them over your modem from Jeppesen.

JEPP FLTSTAR VFR N AM WINDOWS.....	P/N 68273
JEPP FLITESTAR IFR N AMERICA.....	P/N 6120
JEPP FLITSTAR VFR EUR WIND CD	P/N 69383
JEPP FLTSTR IFR/VFR EUR WINDOW	P/N 6006
JEPP FLTSTAR IFR/VFR WORLDWIDE	P/N 65703
JEPP FLTSTR IFT/VFR AMER. WIND	P/N 65704

COMM VFR/IFR RADIO SIMULATOR

The closest thing to talking on the radio in the cockpit. Comm1 has over 6 linear hours of interactive communication training – but you can practice for days & weeks. Learn where to locate frequencies quickly. By mastering radio management skills with Comm1, you'll always be one step ahead of the next radio call. Comm1's instructionally-sound curriculum takes you through progressively more complex airspace so that you can feel confident in any environment. Being prepared with what to say, when, and in what order, is half the battle when mastering radio communication skills. Practice selecting and saying the correct radio announcements & responses in all types of flight settings. With Audio pilot adapter, pilots can link their computer to an aviation headset to create a virtual cockpit. (9V battery)

Comm1 - VFR Radio Simulator.....	P/N 13-32221
Comm1 - IFR Radio Simulator.....	P/N 13-00093
Comm1 - Clearances on request.....	P/N 13-00741
Headset with Boom M/C.....	P/N 13-33331
Plug & Play Combo VFR (Comm1 & Headset)...	P/N 13-34441
Audio Pilot Adapter	P/N 13-03249



MAX TRESCOTT'S G1000 CD-ROM COURSE

There is a revolution sweeping through general aviation. All new aircraft ship with advanced glass cockpits and pilots are faced with the challenge of transitioning to these new systems. The most popular system is the Garmin G1000, and now you can master the system yourself with this new CD-ROM set produced by the author of the popular Max Trescott's G1000 Glass Cockpit Handbook. This course includes: More than six hours on two CD-ROM's, Large, full screen views of displays, Movie screen captures of operating knobs, Printable G1000 front panel displays, Tips from factory and Master CFI's, Narration by two CFI's for easy listening, Keyword searchable slides and transcripts, Optional quizzes to reinforce key points, Files that run on Windows, Macintosh and Linux. PN 13-05534

GARMIN G1000 GLASS COCKPIT BOOK - Learn about all Garmin G1000 features & differences Get the single source of information that educates pilots about all of the features and benefits of flying the Garmin G1000, and how features vary among aircraft manufacturers. Whether you fly a Beechcraft, Cessna, Columbia, Diamond, or Mooney, you'll learn which Garmin G1000 features apply to your particular aircraft. Or, if you're planning to buy a new Very Light Jet (VLJ) like the Cessna Mustang or Diamond D-Jet, this book will help you prepare while you wait for delivery. PN 13-05533



MAX TRESCOTT CD-ROM COURSE

Makes it easy to learn all of the details of flying with WAAS. Designed for the Garmin 430W, 530W, 480, G900X and G1000, the course leads you step-by-step through flying these approaches. Videos demonstrate the flying of actual approaches, and software simulators let you practice loading and flying these approaches. The course is taught by Master CFIs Max Trescott and Susan Parson, who say it covers the "gotchas" that can trick even experienced GPS pilots. P/N 13-05067



KITLOG PRO SOFTWARE

KitLog Pro is an organizational tool that allows the builder of any type of aircraft to create, archive, maintain, and display the entire building process. Whether your experimental aircraft is a plans-built EAA bi-plane, a Van's RV, a Glastar, or even a Lancair IV-P, KitLog Pro is the most efficient way to ensure that you meet the requirements of a builder's log for the certification of your homebuilt aircraft.

Features: • Complete Builder's log to satisfy FAA requirements
Detailed Expense Log • Test Flight Log • Maintenance Log • Weight & Balance Calculator P/N 13-03705

MULTIMEDIA SOFTWARE FLITESCHOOL

In terms of speed, graphics, clarity, and learning value, FliteSchool from Jeppesen Software is unequaled in its class. Much more than a series of "flash cards" that help you memorize the answers to FAA exams, FliteSchool provides programmed learning modules and Hypertext referencing that leads through a series of associated references to learn more, faster! Flite School's Dynamic Cybernetic Learning enhances your training by analyzing your responses and leading you to new subject areas. You'll find studying with FliteSchool to be more interesting and more effective than other software programs and many video tapes. Material is organized into 20 categories and monitored by topic. The software takes you step-by-step through each subject area and returns to areas where you need more work. When you've mastered enough material to pass the FAA exam, you receive a graduation certificate for your instructor to sign off.

Private Pilot.....	P/N 13-100507
Instrument.....	P/N 13-100519

CHARTCASE ELECTRONIC SOFTWARE

When connected to the internet, Chartcase provides access to FlightPrep, the multifunction graphical flight planning engine with approach charts and on-course overlays of TFRUs, SUAUs, and Nexrad weather shown in a single pass high speed web image. Chart Case brings new functionality and complete paperless cockpit data to general aviation pilots at a fraction of the cost of various products that would be needed to match Chart Case. Off-line, Chart Case has complete FAA instrument approach charts in PDF (printable) format for the entire United States. They are accessed using Chartcase's graphical

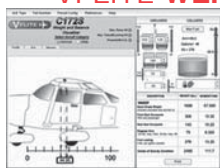
search engine. The charts are updated every 56 days via CD-ROM. ChartCase W/ Subscription..... P/N 13-04351

Minimum Sys. Requirements: •486/66 MHz PC processor • 4x speed CD-ROM drive •16MB RAM •Sound Blaster-compatible sound card •6MB hard drive space • Mic & speakers (or headset) • 800x600 resolution display w/ 256 colors • Windows 95™



AVIATION SOFTWARE

VFLITE WEIGHT & BALANCE VISUAL



With our easy to use system, pilots can learn to quickly calculate the weight and balance of their favorite aircraft and save configurations for later use. The system allows pilots to visualize the loading condition from a unique profile view, arm, and moment charts. The intuitive software uses easy input boxes to select exact weights, and includes weight and balance

references and training tutorial. Perfect for all pilots from student to seasoned professional. The unique "My Presets" feature allows you to store weights for passengers, baggage, and favorite fuel levels. Once they're stored, simply drag them from the list and drop them on the seats or fuel slider. Will a spreadsheet do that? Expandable! Purchase additional aircraft modules for all of the aircraft that you fly! Contact us if you do not see your aircraft. This is it! The easiest to use weight and balance application available. The program comes with a free weight and balance tutorial to help you master the fundamentals. This tutorial makes it easy to use the program. Simply enter the aircraft data using intuitive input buttons or typed text, and the program provides: Total Weight, Moment View, Arm View, and Aircraft Profile View. If the aircraft is out of limits simply click on the fields to change the weights. Unlike other programs, there are no complicated instructions or data points to build. The chart of aircraft arm or moment is graphically displayed.

SEE www.aircraftspruce.com for a list of supported aircraft.

P/N 11-04767.....

GARMIN G1000 TRAINING: IFR PROCEDURES



The Jeppesen Garmin G1000 - IFR Procedures training is a new and 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. The Jeppesen scenario-based, guided simulation system provides complete and comprehensive training allowing the pilot to become proficient in all advanced functions and tasks required for IFR flight and greatly facilitates the transition to flying the Technically Advance Aircraft and the Garmin glass cockpit. Garmin G1000 Training IFR Procedures.....P/N 13-06279
Garmin G1000 PDF & MFD Basics.....P/N 13-05787
Garmin G1000 PFD & MFD Advanced.....P/N 13-05788

A PRIVATE PILOT'S DIGITAL AVIATION LIBRARY



The 'Private Pilot's Digital Aviation Library' is a CD-ROM with all the FAA publications related to the Private Pilot certificate. Great for Students and Pilots of all experience level. The CD includes the following FAA publications: • Pilot's Handbook of Aeronautical Knowledge, • Airplane Flying Handbook, • Aviation Weather & Weather Services, • Private Pilot Knowledge Test Guide, • Private Practical Test Standards, • Private Question Test Bank, • Rotocraft Flying Handbook, • Plus Float, Skiplane supplements. P/N 13-05018.....

WEATHER STATEMENT GROUNDSCHOOL



Weather Statement Groundschool is a CD-ROM-based course on METAR's and TAF's. Nearly 2 hours of stunning, interactive training is provided. This tutorial on METAR's and TAF's is unlike any other such training. It not only teaches the most basic aspects of METAR's and TAF's, but also provides training on components that most pilots are unaware of. Still, learning is made easy and fun, through full voice narration and easy-to-use controls. Where this tutorial truly shines Weather Statement Groundschool promotes learning through human interaction—not just rote memorization. A remarkable feature is the interactive weather controls, which enable the user to "control the weather." For example, the user can specify wind speed, gust factor, direction, and other variables, and can then view how the weather statement displays this information. 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. Specifications: Windows Vista, Windows XP, Windows 98, or Windows 95 32MB recommended CD-ROM drive 10MB hard drive space Video supporting 256-color mode (minimum) Sound card (not required, but recommended) P/N 13-05575.....

WINN BALANCE



This software was originally designed for the Ultralight / Experimental aircraft builder/designer to assist in weight and balance calculations, it also works well on conventional aircraft. It is Great everyday flight planning as well. It will run on Win95/98/Me/2000/XP. The program interface is designed so that the CG and weight of your aircraft is automatically calculated with a minimum of effort.

MAIN SCREEN - This main screen contains all calculation input and dynamically displays real-time results. Hint screens are also of valuable assistance on this screen.

HELP SCREEN - Help is never far away, This help screen gives you all the information you will need to perform an initial weight and balance. It describes the entire process of how to weigh your qaircraft and some of the formulas to help you along the way.

SECONDARY INFORMATION SCREEN - This screen stores all your aircraft's installed equipment which forms a portion of your empty weight. This information is retained until you remove each item. It serves as a reminder as to what exactly was installed in the aircraft at the time of weighing. P/N 13-05599.....

JEPPESEN AVIONICS KNOWLEDGE LIBRARY



Master your GPS unit with Jeppesen's interactive e-learning for Garmin® GPS systems and Lowrance® Handheld GPS Systems. Jeppesen's advanced, self-paced digital learning programs provide training on all operational aspects of you GPS unit. It's the easy, proven way to get confident with all that you GPS has to offer. Key Features include: • Scenario-based, guided simulation • Realistic Emulator • Detailed, narrated demonstrations. • O-screen help and feedback systems. Discover the best way to use the full power of your avionics system compared to heads-down, in cock-pit training

Description	Part No.	Price
Garmin® 430/530 VFR & Core IFR Procedures	13-05644	
Garmin® 430/530 Advanced IFR Procedures	13-05645	
Garmin® 430/530 WAAS Procedures	13-05646	
Lowrance® AIRMAP 2000C	13-05647	
Lowrance® AIRMAP 500/1000C	13-05648	

ASA INSPECTION AUTHORIZATION PREPWARE



This software incorporates the material from the Inspection Authorization Test Prep by Dale Crane, and also includes a PDF of the Inspection Authorization Computer Testing Supplement (CT-8080-8D). All Inspection Authorization candidates must take and pass the FAA's IA Knowledge Exam. This IA Prepware provides all the information needed to pass the IA Knowledge test, and helps candidates become familiar with the privileges and limitations of this highest level of maintenance certification. Includes an overview of the Inspection Authorization certificate, insights into the function of an IA (the inspections, authorizations, and paperwork that accompany the privileges), and excerpts of the FAA documents IAs rely on in their work. Inspection Authorization Prepware has the same great features found in all Prepware titles. Numerous study, preparation, practice and evaluation tools are available to help applicants obtain a confident edge before taking the FAA Knowledge Exam. Prepware brings the accuracy and reliability of ASA's industry-leading Test Prep books to your PC or Macintosh computer.

The software includes more than 400 example FAA questions and answer choices, supported with comprehensive explanations. The same reference material applicants will have access to during the actual test is included as a PDF (the "CT-8080-8D"). This way applicants can become familiar with these documents and learn how to glean the information they need to answer the questions, from such FAA publications as the Airworthiness Directives, Advisory Circulars, Type Certificate Data Sheets, FAA Order 8130.21D, and FAA Form 8130-3.

System Requirements: Internet connection is required for product registration and updates.

IBM compatible PC with Pentium-class processor, Windows 2000, XP with Service Pack 2, or Vista. 128 MB RAM minimum for Windows 2000 and XP (512 MB for Vista). 150 MB available hard drive space, 1024 x 768 SVGA compatible display, CD-ROM drive, mouse or other compatible pointing device.

Macintosh computer with PowerPC G3, G4, G5, or Intel-Mac processor, OS X Tiger (10.4 or higher), 128 MB Ram minimum, 150 MB available hard drive space, 1024 x 768 SVGA compatible display, CD-ROM drive, mouse or other compatible pointing device.

For both Windows and Macintosh, Adobe Acrobat Reader is required. P/N 13-06663.....

ASA IFR SIMULATORS

IP TRAINER VERSION 7.0

IFR Procedures Course



IP Trainer is the only IFR simulator with a foundation of artificial intelligence in the form of a virtual instrument flight instructor (CFII), the only interactive courseware designed exclusively for instrument students, and the only program that can compare its knowledge of the Instrument Practical Test Standards against a student's real-time flight simulation performance. Most importantly, while you're using IP Trainer to build a solid foundation of instrument skills, you'll also be saving money. IP Trainer users consistently attain their Instrument Rating with less dual time and with less expense than students who rely on traditional methods alone, saving an average of \$1,000 in their total training costs for the rating. With a built-in CFII, spoken ATC guidance, the comprehensive Instrument Flying textbook by Trevor Thom, and a full complement of IFR lessons, IP Trainer is the single best way to bring instrument training home.

- IP Trainer version 7.0.....P/N 13-50100
- IP Trainer V7.0 bundled w/ On Top™P/N 13-00656
- ASA Interactive Demo CDP/N 13-01631
- Demo On top/IP Trainer, prepware, GPS Trainer, Flight Library & CX-2

ON TOP™ IFR PROFICIENCY SIMULATOR



Inside On Top you'll find five of the most popular aircraft ever built. There's a Cessna C172, C182 and C182RG, and Piper's Warrior and Arrow. Also included are the Lancair Columbia 300, the Mooney MSE, and Beechcraft's Bonanza V-35, Beechcraft Baron 58, and Beech's 1900D twin-turboprop. Each model utilizes precise flight dynamics algorithms, right down to the deadly asymmetrical thrust you'll experience should you lose an engine in the Baron. Now, you can test your skills

against the reality of single-engine IMC in a light twin, or a twin-engine turboprop. This and other aircraft setup parameters are available for all aircraft. Each aircraft panel is rendered with a next-generation graphics technology that makes every gauge, pointer, tick-mark and knob on your panel as true-to-life as a computer can create. Couple the "Photo-realistic" graphics effect with On Top's precise mimicry of real aircraft instrumentation and you're as immersed in your simulated flights as you are in your actual flights. There's realistic sound effects, like radio idents, marker beacons, gear and flap extension, and tire sounds. You'll find panoramic out-the-window views, accurate runway lighting and haze layering. You'll even see the rivets across your wings as you look right or left on a circling approach, all with enough realism to make you sweat. Full instrumentation, like programmable GPS, HSI, RMI, Moving Map and auto pilot is just half of it. In On Top, you decide what instruments you fly with, and you decide where they'll go. Some IFR sim makers decide years before you ever get your copy what kind of equipment you'll fly with and where it will go in your panel, but in On Top you can change it every time. On Top's Real-World Weather is as variable as tomorrow's weather. Define winds aloft and then surface winds, then dial in degree of swing and speed of gusts. Create turbulence, cloud bases and visibility with as much variability as you can handle, so you'll never know if you'll have to fly the missed approach until you get to the bottom of the funnel. And best of all, make your virtual conditions stable, deteriorating, improving or randomly changing, over any given time frame. In the real world, getting your procedures down pat with a methodical and practiced scan is just the beginning, and there's always more to learn.

- On Top™ version 9.5.....P/N 13-06175
- On Top™ V. 9.5 bundled w/IP TrainerP/N 13-00656

THE COMPLETE G1000 COURSE FROM ASA



The Complete G1000 Course will help you transition from steam-gauge "round dials" to the Technically Advanced Aircraft (TAA) glass cockpit environment. This interactive software allows you to practice becoming proficient in operating the G1000 from the safety and privacy of your home or office computer.

The intuitive software interface makes this as easy to use as reading a book. Computer learning tools in the form of cockpit representations and demonstrations of the tasks combine with a Part 141 and and FITS-compliant G1000 course, which is given by Skyline Aeronautics and in forums around the country. In this way the software teaches you how to safely and efficiently use the G1000 without running up the Hobbs!

P/N 13-04346

ASA INSTRUMENT REFRESHER SIMULATOR



Instrument Refresher is specifically designed for instrument-rated pilots to get some dual on the maneuvers required to maintain currency. Everything necessary to be fully prepared for your next Instrument Proficiency Check (IPC) is here. Build confidence in your instrument skills and get over the refresher hurdle with the guidance of our qualified and knowledgeable virtual CFII. Intercept / track NAVAIDS,

holding procedures and approaches are all supported with interactive lessons. Use Instrument Refresher to stay fresh on the 6-month instrument currency requirements!

PN 13-04264

HARDWARE OPTIONS FOR ON TOP AND IP TRAINER



FLIGHT SIM YOKE USB - Top of the line yoke features 15 button functions, throttle, prop, mixture controls, X&Y trims, gear and flap switches. Requires USB computer connection and Windows 98®. Prop and mixture controls work only with Fly and FlightSim 2000 software.

P/N 13-00737



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

- Kit #1 - Yoke and Rudder PedalsP/N 13-06766
- Kit #2 - Yoke, Rudder Pedals, & Throttle Quadrant, & Microflight Simulator Software (PN 13-04958)P/N 13-06765

CH THROTTLE QUADRANT USB - TWIN ENGINE. Fully programmable and featuring six physical detent axis' 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



VRTR400 CONSOLE SIMULATOR

The VR Aircraft VRTR400 Console Simulator offers the ultimate in realism, flexibility, mobility, reliability, and cost effective flight training! This high quality instrument panel simulation system represents what you would find in a real single engine aircraft. The VRTR700 is as real as it gets! With today's rapidly escalating operating costs, you can keep flying without burning a drop of fuel, or worrying about the weather. With a small 42" x 18" footprint, the VRTR400 Console simulator will fit in very compact 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 RadiosP/N 13-06760

VRTR400-G Dual Screen Glass(G1000)....P/N 13-06761



MICROSOFT FLIGHT SIMULATOR AS A TRAINING AID

Microsoft® Flight Simulator has inspired many thousands of young "gamers" to pursue flight training in real life and has provided certificated pilots with countless hours of entertainment. And even though there is an awareness that PC-based simulations—and Microsoft Flight Simulator in particular—are helpful as aids in flight training and pilot proficiency, for many it is still unclear how best to benefit from the experience of virtual flying. P/N 13-04937



MICROSOFT FLIGHT SIMULATOR DELUXE EDITION

"Flight Simulator X" is the culmination of nearly 25 years of the landmark "Flight Simulator" franchise and the most significant addition to date. The 10th addition to the highly successful "Flight Simulator" franchise, this newest addition will immerse players in a beautifully rich and realistic world, offering a completely new and innovative gaming experience with dozens of new aircrafts to choose from, including the AirCreations Kiss Ultralight and Maule M7-260C Orion with wheels and skis. Gamers of all ages, types and skills levels will experience firsthand what it's like to be an aviator traveling the globe either alone or online with others. FEATURES: Immersive World., Mission-based Gameplay, New Aircraft, Connected World, Interactive Airports. DVD-ROM for the Microsoft® Windows © 98, Windows 2000, Windows Millennium Edition (Windows Me), WindowsXP and Windows Vista™ operating systems P/N 13-04958

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 the general information provided in Pilots Information Manual. For example, the electrical schematic is presented on-screen just as it appears in the information manual. But instead of just sitting there looking mysterious and intimidating, this virtual schematic comes to life with a click of the mouse. Controls and indicators from the cockpit are also available on-screen, creating an animated simulation of the entire system.

- Aircraft Systems - SkyhawkP/N 13-03387
- Aircraft Systems - WarriorP/N 13-03388
- Aircraft Systems SeminoleP/N 13-03389

PS

FLIGHT SIMULATORS

CH VIDEO GAME JOYSTICKS

Your pulse quickens, your muscles tighten, adrenaline surges through your veins as you engage enemy aircraft in gut wrenching aerial combat. With CH Products simulation controllers, the realism of your next combat mission ascends to new heights.



FLIGHTSTICK PRO - Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 12 buttons - X, Y, and Z axes for Aileron, Elevator, and Throttle control - 4 traditional push buttons - 1 eight direction POV HAT switch • Total of 80 programmable functions with Control Manager software (included) • Simple ambidextrous handle • Dual rotary trim wheels for precise adjustment of ailerons and elevators • Side Throttle wheel • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty P/N 13-05613

COMBATSTICK 568 - Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 18 buttons - X, Y, and Z axes for Aileron, Elevator, and Throttle control - 6 traditional push buttons - 1 four direction HAT switch - 1 eight direction POV HAT switch • Total of 128 programmable functions with Control Manager software (included) • Stylized 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 13-05614



FLIGHTSTICK - Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 24 buttons - X, Y, and Z axes for Aileron, Elevator, and Throttle control - 3 traditional push buttons - 1 mode switch button - 3 four direction HAT switches - 1 eight direction POV HAT switch • Total of 176 programmable functions with Control Manager software (included) • Three color mode indicator LEDs on base • Realistic F-16 handle • Dual rotary trim wheels for precise adjustment of ailerons and elevators • Side Throttle wheel • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty. P/N 13-05615



PRO THROTTLE - Windows 98, ME, 2000, XP, XP 64bit, Vista • 3 axes and 24 buttons - X and Y axes on miniature joystick - Z axis on accurate throttle sliding motion - 3 traditional push buttons - 1 mode switch button - 3 four direction HAT switches - 1 eight direction POV HAT switch • Total of 176 programmable functions with Control Manager software (included) • Three color mode indicator LEDs on base • Ergonomic left hand HOTAS design • Large sturdy base with 7 foot USB cable • Plug and Play driverless USB installation • Quality industrial components and construction • Two year limited warranty P/N 13-05616



MULTI-FUNCTION PANEL - Fully Programmable Keyboard for Gamers Regain domination with the first revolutionary, fully programmable keyboard designed specifically for gamers! Expanding on the role of the traditional keyboard, the MFP allows the gamer to program individual keys to emulate any combination of the following: • Keystrokes • Joystick buttons • Mouse buttons • Joystick axis • Mouse axis Each wireless, programmable key is re-usable, inexhaustible and can be removed and re-positioned anywhere on the MFP tray enabling a completely new customizable layout for each of your gaming needs. System requirements: • Windows 98, ME, 2000, XP, XP 64bit • Control Manager 4.2 installed (included) • USB port

CH 400-602 Multi-Function Panel P/N 13-05617

CH 400-603 MFP key Sets 26-50..... P/N 13-05618

CH 400-604 MFP Key Tray P/N 13-05619

HOT COMBAT SIM WITH DUAL SCREEN DISPLAYS

- Includes freight anywhere in the 48 Contiguous United States. **Chassis:** HotSeat Flight SIM - a powder coated, steel tubular frame **Monitor:** 22" and 28" HD LCD Monitors **Gaming System:** Intel Quad Core Processor with 2.4 Mgs each, NVIDIA 512mb graphics card, 4 gigs ram, DVD Drive. **Sound System:** 6 Speaker -Hot Seat Dolby 5.1 surround sound with subwoofer under the seat. **Gaming Controllers:** Logitech wireless keyboard and mouse. **Included Software:** Microsoft FS X, Deluxe Edition pre-installed P/N 13-06394

Deluxe Edition pre-installed P/N 13-06394

ALSO AVAILABLE:

HotSeat Heli Sim..... P/N 13-06393

HotSeat Pilot Pro P/N 13-06392

Visit our website or call for complete details on these additional models.

CH ECLIPSE YOKE



The new CH Eclipse !! Built with the same high end components you find in our industrial products, the CH Eclipse brings value added functions to complement all your favorite sims.

Features

- * Fully programmable fingertip paddles, ideal for flight and racing sims
- * Programmable trim / scroll wheels with center push function
- * Two backlit push buttons and a third traditional push button
- * Two 8-way 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

AUDIOPILOT HEADSET ADAPTER



Wouldn't it be great to eliminate ambient room noises when you flight-sim? With AudioPilot you can! AudioPilot links your computer sound card to your aviation headset—and puts you in the virtual cockpit. It's easy to use—just plug AudioPilot between your headset and the computer and take off! Immerse yourself in the experience and enjoy flight-simming the way it's meant to be. • Feeds computer sound into headset

with high fidelity • Connects mic for high-quality verbal communication • Compact, sturdy and convenient • Plug & play—no software to install AudioPilot is the perfect companion to your flight-sim setup— and the perfect gift for any armchair pilot. Order yours today!

VCT HEADSET ADPT BATTERY ONLY P/N 13-04177

VCT HEADSET ADPT W/9V PLUG P/N 13-04178

VCT HELI AUDIO PILOT P/N 13-04179

HOTSEAT FLIGHT SIM®

Practice Makes Perfect. The very latest, HotSeat FLIGHT SIM® where you'll fly in a way you've never experienced. Flying on our available PC, you are as close to the real cockpit as possible. With it's 6-speaker Dolby Digital® 5.1 Surround Sound, the sound moves with your view. Fully capable for pilot training and upgrade training. Includes our custom LCD stand. You supply the flight controls, monitor and PC, or we can supply it for you. **Available colors:** Red, Blue, Yellow, Black. Custom colors available upon request.



FLIGHT SIM ENTRY LEVEL - Includes freight anywhere in the 48 Contiguous United States. **Chassis:** HotSeat Flight SIM **Monitor:** Not included. **Gaming System:** Not included. **Sound System:** Hot Seat Dolby 5.1 surround sound with subwoofer under the seat. **Gaming Controllers:** Not included. **Included Accessories:** Flight Sim extended gaming console for flight controls and flight stacks, pedal mounts, cup holder, integrated power strip. **Included Software:** Not included. P/N 13-05279



FLIGHT SIM, EXTREME PC BUNDLE FLIGHT READY W/27" HD READY MONITOR - Includes freight anywhere in the 48 Contiguous United States. **Chassis:** HotSeat Flight SIM **Monitor:** 27" Widescreen HD LCD display and stand. **Gaming System:** NEW! Intel Quad Core 2.2 ghz, Nvidia 512mb, 4 gigs DDR2 RAM. HotSeat Extreme PC **Sound System:** Dolby 5.1 surround sound with subwoofer under the seat. **Gaming Controllers:** C&H Yoke & Pedals, Logitech Wireless Keyboard and Mouse. **Included Accessories:** Flight Sim extended gaming console for flight controls and flight stacks, pedal mounts, cup holder, integrated power strip. **Included Software:** Microsoft Flight Sim X P/N 13-05280



HOTSEAT FLIGHT SIM EXTREME - Includes freight anywhere in the 48 Contiguous United States. HotSeat Flight SIM - a powder coated, steel tubular frame **Chassis:** HotSeat Flight SIM - a powder coated, steel tubular frame **Monitor:** 28" Widescreen HD LCD display and stand. **Gaming System:** Intel Quad Core Processor with 2.4 Mgs each, NVIDIA 512mb graphics card, 4 gigs ram, DVD Drive. **Sound System:** 6 Speaker -Dolby 5.1 surround sound with subwoofer under the seat. **Gaming Controllers:** Logitech wireless keyboard and mouse. **Included Software:** Microsoft FS X, Deluxe Edition pre-installed P/N 13-06391

PS

JEPPESEN AIRWAY SERVICES

JEPPESEN ENROUTE LOW & TERMINAL CHARTS

Geographic Coverage	Part No.	First Year Total	# of 2" Binders Required Order Separately
Full USA	USA05 All 48 Continuous States	.	7
East	USB05	.	4
AL, CT, DE, DC, FL, GA, IL, IN, KY, MA, MD, ME, MI, MS, NC, NH, NJ, NY, OH, PA, RI, SC, TN, VT, WI, WV			
East & Central	USC05	.	6
AL, AR, CT, DE, DC, FL, GA, IA, IL, IN, KS, KY, LA, MA, MD, ME, MI, MN, MO, MS, NC, ND, NE, NH, NJ, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WV			
Central	USD05	.	3
AR, IA, IL, IN, KS, LA, MI, MN, MO, ND, NE, OK, SD, TX, WI			
Central & West	USE05	.	4
AR, AZ, CA, CO, IA, ID, IL, IN, KS, LA, MI, MN, MO, MT, ND, NE, NM, NV, OK, OR, SD, TX, UT, WA, WI, WY			
West	USF05	.	2
AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY			
Southwest	USK05	.	1
AZ, CA, CO, NM, NV, UT			
Northwest	USL05	.	1
ID, MT, OR, WA, WY			
North Central	USN05	.	2
CO, IA, KS, MN, MO, MT, ND, NE, SD, WY			
Great Lakes	USP05	.	2
IL, IN, KY, MI, OH, WI			
Northeast	USR05	.	2
CT, DE, DC, MA, MD, ME, NH, NJ, NY, PA, RI, VA, VT, WV			
Southeast	USS05	.	2
AL, FL, GA, MS, NC, SC, TN			
South Central	UST05	.	1
AR, LA, NM, OK, TX			
N. Cntl. & Gt. Lakes	USU05	.	3
CO, IA, IL, IN, KS, KY, MI, MN, MO, MT, ND, NE, OH, SD, WI, WY			
S. & S. Central	USW05	.	2
AL, AR, FL, GA, LA, MS, NC, NM, OK, SC, TN, TX			
California	CAL05	CA	1
Florida	FLA05	FL	1
Texas	TEX05	TX	1
Gulf of Mexico	USY05	.	1
Gulf of Mexico (Helicopter Service), Instrument approaches within 200nm of the coast at airports with weather reporting capability. Also includes Gulf of Mexico Area chart.			

JEPPESEN AIRWAY MANUAL EXPRESS

WESTERN AREA

Northwest, J-NW: Washington, Oregon, Idaho
 West Central, J-WC:..... Montana, Wyoming, North Dakota, South Dakota
 Southwest, J-SW:..... Nevada, Utah, Arizona, New Mexico, Colorado
 California, J-CA: California
 Alaska, J-AK:..... Alaska

CENTRAL AREA

Central, J-CN:..... Colorado, Nebraska, Kansas, Missouri
 North Central, J-NC:..... Minnesota, Iowa, Wisconsin
 Great Lakes, J-GL:..... Wisconsin, Illinois
 East Central, J-EC:..... Indiana, Ohio
 South Central, J-SC: Oklahoma, Arkansas, Louisiana
 Texas, J-TX: Texas
 Michigan, J-MI: Michigan

EASTERN AREA

Northeast, J-NE:..... Maine, Massachusetts, Connecticut,
New Hampshire, Rhode Island, Vermont
 East, J-EA: New York, Pennsylvania, New Jersey
 Mid-Atlantic, J-MA: ... Virginia, Maryland, Delaware, West Virginia, D.C.
 Southeast, J-SE: Georgia, North Carolina, South Carolina
 Mid-South, J-MS:..... Kentucky, Tennessee, Mississippi, Alabama
 Florida, J-FL: Florida

1-1/2" Vinyl Binder (Holds 1 single issue) P/N 13-22792.....

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Florida	13-22710	.
Mid-South	13-22715	.
Southeast	13-22720	.
Mid-Atlantic	13-22725	.
Texas	13-22730	.
South Central	13-22735	.
Central	13-22740	.
California	13-22745	.
Southwest	13-22755	.
Northwest	13-22760	.
East	13-22765	.
Northeast	13-22770	.
Michigan	13-22775	.
East Central	13-22780	.
Great Lakes	13-22785	.
North Central	13-22790	.
West Central	13-22795	.

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JEPPESEN AIRWAY ACCESSORIES

JOG-15/JOG-30 CHART ORGANIZER



Transparent Pockets are ideal for holding trip charts, flight plans, aircraft checklists, etc. Index tabs & spiral binding make it easy to access the chart you want.
 15 pocket..... P/N 13-62116-5.....
 30 pocket..... P/N 13-62116-6.....



CHART POCKET

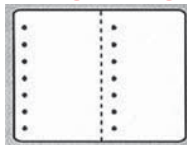
Transparent durable vinyl pocket holds two enroute charts. 7-hole punched for binder.
 P/N 8063



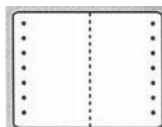
APPROACH CHART PROTECTOR

Protection plus. Transparent plastic envelopes protect your most frequently used approach charts, while accepting marks from almost any writing instrument. Easy Erase. Set of 10.
 P/N 13-21748

MULTI PURPOSE PRINTER PAPER FOR JEPPESEN BINDERS



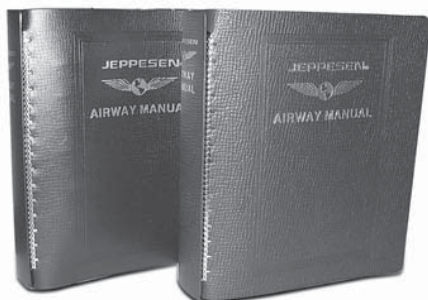
Perforated, 7 hole (center & edge) • 500 Letter size sheets • Print up to 1,000 Jeppesen size sheets (5.5"x 8.5") • Create print from your software • Checklist/Procedures • Schedule/itinerary • Phone/address • Pilot Notes • Flight time/ Expense Log • Approach Charts P/N 13-33003



JEPPE VIEW PRINTER PAPER FOR JEPPESEN BINDERS

Perforated, 7 hole (edge only) • 500 Letter Size sheets • Prints 1,000 Jeppesen size sheets (5.5"x8.5") • Create & print from your software – area charts & approach charts P/N 13-33002

JEPPESEN BINDERS



Functional, durable, protects & lasts. Jeppesen's leather binders are made from top-grain cowhide and include steel hinges and safety locks to secure the rings. The sturdy Duraflo binder has the look and the feel of our leather binders. The flo-mold process laminates and binds sturdy, ethylene acetate with a clear tough surlyn outer surface. Available in brown and black.

LEATHER BINDERS

Standard leather 1" Binder..... P/N 13-03251

Standard leather 2" Binder..... P/N 13-03250

LB-2 Leather, 2" Rings, Stay-Open Bar..... P/N 13-21738

PLASTIC BINDERS

PB-2 Denlon wrapped, 2" Rings, No Stay-Open Bar..... P/N 13-21744

PB-1.5 Denlon wrapped, 1.5" Rings, No Stay-Open Bar..... P/N 13-22792

CD-POCKET



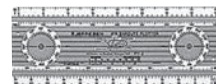
Durable vinyl pocket holds 2 CD-ROMs, 7 hole punched for binder. Set of 10.
 P/N 13-62800.....

PILOTS NOTES



Write it down! Handy for flight planning, enroute notes. Fits Jeppesen Binders. Pkg of 500 sheets.
 Lined Pilots notes..... P/N 13-06806.....
 Unlined Pilots notes..... P/N 13-06805.....
 PV-5 IFR Enroute Plotter
 Size 3-3/16" x 8-1/2"
 P/N 13-21718.....

CHARTTABS



Quick reference tabs labeled, "Departure, Destination and Alternate" help you find your place fast. Plastic color coded.
 Set of 3..... P/N 13-21752.....

CHART WALLET



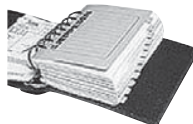
Keeps up to 10 enroute charts at your finger tips. Space saving accordion-fold. Made of durable blue vinyl.
 P/N 13-21746.....

MULTI-TABS



Make your binder work like you do. Write your own labels to separate your contents. Erasable, reusable. Lines for notes.
 Set/13. P/N 8455.....

BINDER IDENTIFIERS



Pick up the right binder the first time. Easy to read self-adhesive labels for top and spine of 2" binders.
 United States, 2 sets
 P/N 13-63000-2.....

INDE TABS



Simplify Location of desired charts and index sections in your airway manual or trip kit.
 Set of Alphabetical Tabs..... P/N 13-62541-5

Set of Sectional Tabs..... P/N 13-62513-5

AIRWAY MANUAL ACCESSORY PACK



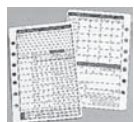
Each pkg Contains: • Chart tabs (set of 3) • Approach chart protectors (set of 10) • NavLog/Flight Plan Forms (set of 50) • Multi-tabs (set of 13) • Pilot Notes (set of 25 lined)
 P/N 13-62604-6.....

VFR/NAVIGATION LOG PAD



Record all of your flight information in a single convenient log. 50 sheets. Size: 11"x 8.5"
 P/N 8846

NAVIGATION LOG / VFR FLIGHT PLAN FORM



Perfect Flight Planning partner. Features a weather log. Two sided fits into Jeppesen binders for easy in flight reference. Package of 100. Size: 5.5" x 8.5"
 P/N 13-21754

IFR NAVIGATION LOG

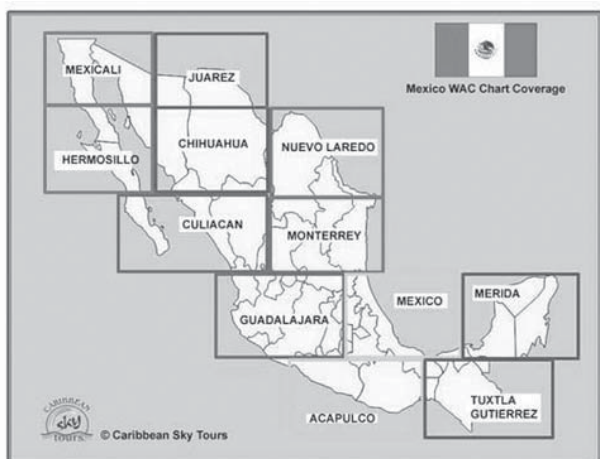


Conforms to ICAO standards and recommendations. Standard Jeppesen format. Fits neatly into the Airway Manual Binder.
 P/N 13-33005

PS

REFERENCE MAPS AIR MAPS

ME ICO VFR WAC CHARTS



Published by INEGI - Mexico's National Institute of Statistics, Information & Geography. These World Aeronautical Charts (WAC) were released in 2008 and contain topographical, airport and navaid information. Mexico is divided into 12 regions and 2 regions are printed on each chart for a total of 6 individual charts. Updated every 4 years. SCALE 1:1,000,000. Note that aircraft landing in Mexico that departed from Central America, South America or the Caribbean are subject to special AOE requirements and can only use the Cozumel and Tapachula airports as AOE's. Detailed airport information and fuel availability can be found in the Pilot's Guide.

Description	Part No.	Price
Monterrey-N.Laredo	13-06079	
Acapulco-Mexico	13-06080	
Tuxtla Gutierrez-Mer	13-06081	
Chihuahua-Juarez	13-06082	
Hermosillo-Mexicali	13-06083	
Guadalajara-Culiac	13-06084	

AVIATOR'S QUICK REFERENCE MAPS



Flight Case Map - US 5th Edition
This is the map that actually started it all and launched our business in 1988. The Aviators' Quick Reference Map has become standard equipment in the flight bags of thousands of professional pilots all over the world and is standard issue to the pilots of several major airlines.

Colorful and accurate, these maps clearly depict state boundaries, time zones, major cities and towns, rivers, lakes, mountain ranges, national parks and points of interest. Also listed are major airports and VOR's (with frequencies for easy identification). Hundreds of interesting state by state facts and figures are listed on the back side. Two finishes: laminated or tearproof. The laminated version has a write-on/wipe-off surface. Either is durable enough to withstand years of use. A great aid for making more interesting PA's. When folded, laminated map measures 10.5" x 16" and tearproof is 8" x 10.75". Both fit perfectly in a flight case. Scale 1" = 90 miles.

Flight Case Map Laminated U.S. P/N 13-05677
Flight Case Map Tearproof U.S. P/N 13-05678
Flight Case Map Canada/Alaska P/N 13-05687

U.S. QUICK REFERENCE WALL MAP



Due to popular demand, we have come up with an extra large version of our popular Aviators' Quick Reference Map and made it wall-size. Perfect for use at home, office, hangar, briefing room, etc.

This map depicts state boundaries, time zones, major cities and towns, rivers, lakes, mountain ranges, national parks and other points of interest. Also listed are major airports and VOR's (with frequencies for easy identification).

It is ideal for flight planning or "pinning" your favorite destinations. Measures 33" x 23" or 52" x 36" and is laminated so that you can write on it and just wipe it off. Makes for an attractive wall mount anywhere! Shipped to you rolled with no creases. Scale: 1" = 55 miles.

Wall Map U.S. Expanded P/N 13-05688
Wall Map U.S. Map Standard P/N 13-05689

SKYCLOPEDIA OF THE US



As a passenger, did you ever hear another pilot make an exceptionally interesting PA and wonder where he or she picked up such interesting trivia? Well here's their secret.....the Skyclopedia of the USA.

A perfect companion to our Aviator's Quick Reference Maps is the Skyclopedia, written by veteran airline pilot Mill

Jines. Jines used his many years of line flying and personal traveling experience to put together a comprehensive collection of sights commonly seen from the air into one convenient spiral-bound book.

Contains literally thousands of listings of geological, historical and statistical points of interest in a state-by-state format.

Now it's your turn to make better PA's and entertain your passengers with this interesting information! Contains 359 information-packed pages. Measures 8 1/2" x 11" x 3/4" PN 13-05692



AVIATOR'S QUICK REFERENCE DESK MAP - US 5TH EDITION

The same map as the US Flight Case Map, without the folds and a 1 inch border added with latitudes and longitudes. Heavy map paper and laminate. Full map size: 33 1/2" x 23"

PN 13-05690

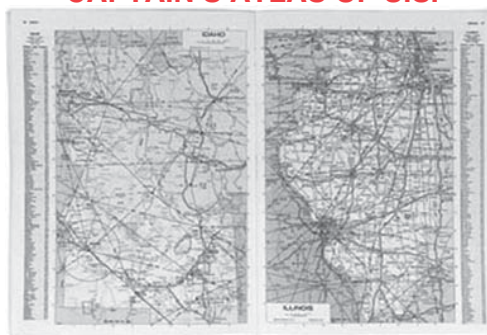
AVIATORS QUICK REFERENCE FLIGHT CASE MAP - EUROPE



Designed exactly with the same detail and colors as our U.S. Map, this Aviator's Quick Reference Map of Europe clearly depicts national boundaries, time zones, major cities and towns, rivers, lakes, mountain ranges, national parks as well as other points of interest. Listed are major airports as well as VOR's with names, frequencies and identifier codes. The tear-proof flight case-size maps measure 32.5" x 25" when unfolded and only 8" x 11" when folded. For mounting on a wall, we have a wall-sized laminated version that has a write-on/wipe-off surface and measures 35" x 27.5". Scale: 1" = 80 miles.

PN 13-05679

CAPTAIN'S ATLAS OF U.S.



Intended for the airline or business jet passenger, this flight reference map is designed primarily for trip planning and referencing landmarks of the USA while in flight.

Two versions of the map are offered: folded and a wall map. They are both packed with useful information on cities, parks, highways, and other points of interest from California to Maine.

The folded flight map is printed on durable tear-proof paper and fits perfectly in a seat pocket or briefcase, making it a great gift for the "Frequent Flyer"! The wall map is shipped to you rolled, has no folds and has a write-on/wipe-off surface. Flight Map measures

8 1/2" x 11" when folded and the Wall Map is 34" wide x 23" high.

PN 13-05691

PS

MAPS CHARTS

WEATHERCYCLER WEATHER KIT



This slide chart gives pilots easy-to-understand explanations of weather systems including highs, lows, cold fronts, & warm fronts. The chart shows various weather symbols and provides a guide to become very familiar with aviation weather maps. Laminated for long life. Includes instruction booklet & study guide. Size: 8.5" x 11".
P/N 13-29949



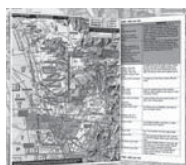
FULL-COLOR CLOUD CHART

"Clouds: A Guide to the Sky" shows full-color photos of 30 different cloud formations, (with descriptions) and the weather associated with each. 25" x 37" on heavy stock.
P/N 3591



ICE ADVICE™

ICE ADVICE™ provides the pilot a handy reference for avoiding, detecting and escaping icing conditions...one of the top concerns of general aviation instruments pilots. This chart, when employed with the icing risk chart on the front side, can help the pilot decide an altitude change that will lower the icing risk. ICE ADVICE™ is laminated in a durable 10 mil, satin matte finish, and is 8.0" x 5.5"
P/N 13-04220



SCENIC FLIGHT MAPS

The Scenic Flight Maps give you many different routes for sightseeing to the major landmarks, famous places in Los Angeles and Orange County or San Diego area. The multiple color graphs and route pointers are really easy to read and follow. The map is laminated to keep from daily tears and protects from liquid spill. On the back side, it shows

three columns: Route, Need to Know and Sightseeing sections, to better guide you in your travel without confusion or time lost.
Scenic Flight Maps L.A./O.C. P/N 13-05667

QUICK REFRESHER CHARTS



These Quick Refresher Charts provide a wealth of useful information that every pilot seems to forget over time. Available to "refresh" the pilot on IFR procedures & regulations, Weather info, VFR procedures & regulations, mountain flying, passenger info (the right seat), flying to Canada, and flying to the Bahamas. These charts are laminated for long life & fit right in your flight bag.

- Quick Refresher VFR P/N 13-40316
- Quick Refresher Weather P/N 13-40416
- Quick Refresher IFR P/N 13-40516
- Quick Refresher Mtn. Flying P/N 13-00422
- Quick Refresher The Right Seat P/N 13-00423
- Quick Refresher Flying to the Bahamas P/N 13-00426

CANADA FLIGHT SUPPLEMENT IFR CHART



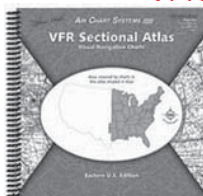
The Canada Flight Supplement is a joint civil/military publication. It contains information on Canadian and North Atlantic aerodromes and is used as a reference for the planning and safe conduct of air operations. Features: •General: Tables, legends and associated information pertinent to interpretation of the supplement. •Aerodrome Directory: Data and sketches for Canadian aerodromes and heliports and selected aerodromes in the North Atlantic. •Planning: Information for flight planning, characteristics of airspace, chart updating, flight restrictions, IFR routes, airway intersections and chart distributors. •Radio Navigation and Communications: Data for radio navigation aids and communication facilities. •Military: Flight procedures and data, including sections on procedures for flight in the USA, North Atlantic and Alaska, air/ground communications and military training routes/areas. •Emergency: Emergency procedures. •The Canada Flight Supplement, measuring 5 1/4 by 8 1/4 inches, is available in English or a bilingual format. Data for the province of Quebec and the National Capital Region are presented in French in the bilingual edition.
P/N 13-04424

AIR CHARTS: IFR ENROUTE CHARTS IN A BOUND VOLUME



IFR charts for the 48 contiguous states presented in one 11"x 11" spiral-bound volume. Charts are easier to locate when you need them, and easier to read in their large presentation. Meets FAA/IFR requirements. Included all 13 NOS are charts shown in full size, every frequency servicing every IFR airport, all VORs plotted in position on flight plan chart, Military training routes, planning charts showing major airways, airports, and topographical features for visual or checking. Includes a coupon to receive 1yr of 56-day updates from the publisher at no extra cost.
48 States..... P/N 8339

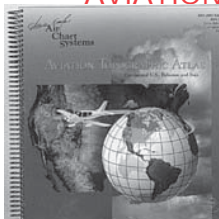
VFR SECTIONAL ATLAS



Full-scale, Full-color reproductions of FAA/NACO Sectional Charts. No more hassle of finding charts or worrying about FAA ramp checks. Atlas format with convenient page numbering system eliminates the aggravation of folding and unfolding charts in the cockpit. With Air Chart's exclusive update service, you'll always have current, updated VFR Charts. (see E-Z Updater on reverse) Aeronautical data on Sectional Charts includes all NAV/Comm frequencies, controlled airspace, airport identifiers and restricted areas. Only \$99 per year including update service! Eastern U.S. Atlas covers area east of the 97th meridian. Coverage extends westward to include area around Dallas, TX. Eastern VFR atlas.

- EASTERN P/N 13-02478
- WESTERN P/N 13-03170
- EAST/WEST P/N 13-04382

AVIATION TOPOGRAPHIC ATLAS



Aviation's first full-color chart atlas contains WAC scale charts for the 48 contiguous US states. In addition, all 30 class B Airspace and 130 Class C Airspace are reproduced from Sectional Scale charts. With Air Chart's exclusive NOTAM update service, you'll have current and legal VFR charts for the whole country. Easy to use key chart and page numbering makes navigation within the Atlas simple. You'd have to spend over \$400 to get all the charts contained in the Aviation Topographic Atlas. Comes with coupon for 1-yr of 56 day updates from the publisher at no extra cost. P/N 13-01144

V SPEEDERS PILOT CARDS



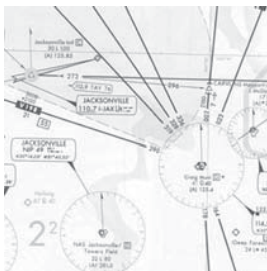
Set of 5. Provide a quick reference for aircraft data such as useful load, fuel capacity, and all V speeds. These are durable write-on cards. (2"x3.5") which are excellent for instructors and students. Prepare a card for each aircraft you fly and keep them in your pocket.
P/N 13-00463

IFR FLIGHT FILE



This handy chart planner and organizer holds NOS or Jeppesen approach plates, SIDs and STARS, and airport diagrams. Features easy to load static-hold chart protectors, and fits yoke clips & keyboards. Contains a wealth of important reference information relating to IFR departure, enroute, approach, and alternates.
P/N 13-55016

IFR AREA CHARTS - U.S.



United States Government Flight Information Publication IFR Area Charts - U.S. Area consisting part of: * A-1 Minneapolis/St. Paul * Detroit * St. Louis * Atlanta * Jacksonville * Miami * Washington * A-2 San Francisco * Los Angeles * Phoenix * Denver * Kansas City * Dallas/Fort Worth * Chicago/Milwaukee
P/N 13-00773

VISUAL NAVIGATION CHARTS



Sectional & VFR Terminal Charts for conterminous United States, Hawaii, Puerto Rico and Virgin Islands

Seattle	Klamath Falls	Denver	Dallas/Fort Worth	Brownsville	Seward	McGrath
Great Falls	Cheyenne	Wichita	Memphis	Miami	Juneau	Anchorage
Billings	Omaha	St. Louis	Atlanta	Hawaii	Ketchikan	Salt Lake City
Twin Cities	Chicago	Cincinnati	El Paso	Kodiak	Cape Lisburn	Kansas City
Green Bay	Detroit	Washington	San Antonio	Dutch Harbor	Point Barrow	Charlotte
Lake Huron	New York	Los Angeles	Houston	Aleutian Islands	Fairbanks	Cold Bay
Montreal	San Francisco	Phoenix	New Orleans	Western	Dawson	
Halifax	Las Vegas	Albuquerque	Jacksonville	Whitehorse	Bethel	

FAA SECTIONAL CHARTS

Sectional aeronautical charts are designed for visual navigation of slow to medium speed aircraft. The topographic information featured consists of the relief and a judicious selection of visual checkpoints used for flight under visual flight rules. The checkpoints include populated places, drainage patterns, roads, railroads, and other distinctive landmarks. The aeronautical info on Sectional Charts includes visual and radio aids to navigation, airports, controlled airspace, restricted areas, obstructions, & related data. (Scale 1"=6.86 nm/ 1:500,000. 60"x20" folded to 5"x10") Revised semi-annually, except most Alaskan charts are revised annually.

Sectional Charts P/N 8403.....
Set of 37 charts (w/o AK & HI) P/N 8557.....

NOTE: When ordering charts, complete part no. with first 3 letters of chart title. Ex.: Seattle sectional is P/N 8403SEA.

For Subscription service: Add -SUB (example: 8403SEA-SUB) and a new chart will be shipped & billed to you automatically at every revision until you cancel the subscription. Subscription chart orders require credit card no. on file.



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.

FAA VFR TERMINAL AREA CHARTS

Terminal Area Charts depict the airspace designated as Class B Airspace. The information found on these charts, while similar to that found on Sectional Charts, is shown in much more detail because of the larger scale. These charts should be used by pilots intending to operate from airfield within or near a Terminal Control Area or an Airport Radar Service Area. Locations of Terminal Area Charts are indicated by a • on the Sectional Chart indexes. (Scale 1 inch = 3.43nm/1:250,000. 25 x 20 inches folded to 5 x 10 inches.) Revised semi-annually, except Puerto Rico/Virgin Islands is revised annually.

NOTE: When ordering charts, complete part number with first 3 letters of chart title. Ex: Los Angeles terminal chart is P/N 8064LOS.

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Terminal Area Charts P/N 8064
Set of 28 Terminal Charts P/N 8524

CINCINNATI VFR TERMINAL AREA & FLYWAY CHART

P/N 13-21000

Atlanta	Detroit	Minneapolis	San Francisco
Boston	Honolulu	New Orleans	Seattle
Charlotte	Houston	New York	St. Louis
Chicago	Kansas City	Philadelphia	Orlando/Tampa
Cincinnati	Las Vegas	Phoenix	Washington
Cleveland	Los Angeles	Pittsburgh	Anchorage/
Dallas	Memphis	Salt Lake City	Fairbanks
Denver	Miami	San Diego	

AIRPORT / FACILITY DIRECTORY



The Airport/Facility directory is a pilot's manual which contains data on public and joint use airports, seaplane bases, heliports, VFR airport sketches, NAVAIDS, communications data, weather data sources, airspace, special notices, VFR waypoints and operational procedures. The seven volumes cover the conterminous United States, Puerto Rico, and the Virgin Islands. Includes data that cannot be readily depicted in graphic form; e.g., airport hours of operation, types of fuel available, runway data, lighting codes, etc.

Area	Part No.
Southwest U.S.	AFD-SW
Northwest U.S.	AFD-NW
So. Central U.S.	AFD-SC
No. Central U.S.	AFD-NC

Area	Part No.
East Central U.S.	AFD-EC
Southeast U.S.	AFD-SE
Northeast U.S.	AFD-NE



LARGE-FORMAT CHART WALLET

This chart wallet helps pilots organize, hold, carry, and display 22 standard NOS charts conveniently. The black padded cover features the silver wings logo. There are ten double-sided, clear vinyl organizer pockets riveted to the cover. Along with the pockets in the front and back covers, these pages hold the charts so you can easily find them in a busy or turbulent cockpit environment. Measures 6.5" x 11.5" w/ 2.5" spine.

Large Book-Style Chart Wallet P/N 13-00412

VISUAL NAVIGATION CHARTS



▲ Indicates Biennial Revision
World Aeronautical Charts for the conterminous U.S., Mexico, & Caribbean Areas

WORLD AERONAUTICAL CHARTS

World Aeronautical Charts by NOS are designed to provide standard for the land areas of the world in a size and scale convenient for navigation by moderate-speed aircraft. Topographic information includes cities and towns, principle roads, railroads, distinctive landmarks, drainage, and relief. Aeronautical information includes visual and radio aids to navigation, airports, airways, restricted areas, obstructions, and other data considered pertinent. Scale 1:1,000,000 or 1" to 13.7 nautical miles, less detailed than Sectional & Terminal Area Charts, but useful for longer distance planning. Revised annually. 12 charts cover the US

WAC Charts..... P/N 8567..... ea

Set of 12 U.S. WAC charts..... P/N 8805..... ea

NOTE: When ordering charts, complete part no. with chart number.

Example: WAC chart CF-17 is P/N 8567CF-17.

For SUBSCRIPTION service: Add -SUB (example: 8567CF-17-SUB) and a new WAC 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.

OTHER VFR CHARTS:

- VFR-IFR Wall Planning Chart (U.S.).....P/N 13-30703.....
- U.S. Gulf Coast VFR Chart.....P/N 13-30704.....
- Grand Canyon VFR Chart.....P/N 13-30706.....
- Baltimore-Washington Helicopter Route Chart.....P/N 13-30707.....
- Chicago Helicopter Route Chart.....P/N 13-30709.....
- Houston Helicopter Route Chart.....P/N 13-30711.....
- Los Angeles Helicopter Route Chart.....P/N 13-30712.....
- New York Helicopter Route Chart.....P/N 13-30713.....

World Aeronautical Charts for Alaska



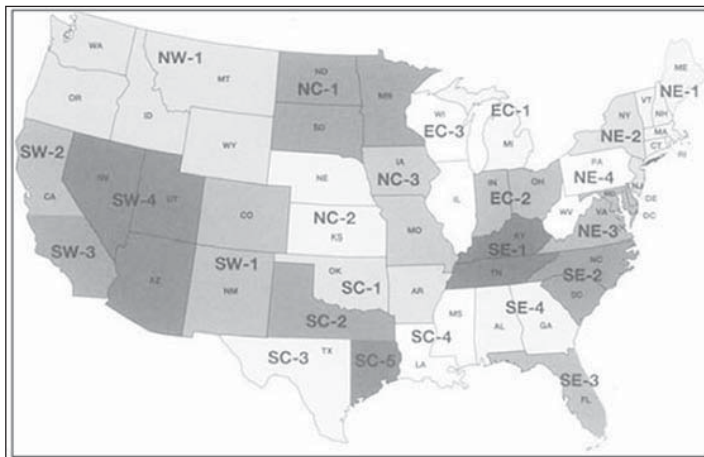
CHART MASTER

Chart Master is Aircraft Spruce's new 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.

TERMINAL PROCEDURES COVERAGE OF THE CONTERMINOUS U.S.

Includes: • Instrument Approach Procedure (IAP) Charts • Departure Procedure (DP) Charts • Standard Terminal Arrival (STAR) Charts • Charted Visual Flight Procedures (CVFP) • Airport Diagrams
IAP Charts are designed to provide an IFR descent from the enroute environment to a point where a safe landing can be made. DP charts are Air Traffic Control (ATC)-coded departure procedures which have been established at certain airports to simplify clearance delivery procedures. STAR charts are ATC-coded IFR arrival routes established for certain airports to simplify clearance delivery procedures. CVFPs are an operational technique designed to move air traffic safely and expeditiously. In addition to conventional visual approach procedures, it has been necessary to specify routes/altitudes to enhance noise abatement at some locations. CVFPs have been developed to provide a pictorial display of these visual arrival routes. Airport Diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating geodetic position navigational systems aboard aircraft.

Bound Volumes.....\$4.25
Loose Leaf Volumes.....\$4.25



Description	Bound P/N	Loose Leaf P/N	Description	Bound P/N	Loose Leaf P/N
South Central Vol.1	13-01331	13-01364	Southwest Vol. 4	13-00814	13-01546
South Central Vol.2	13-01332	13-01365	East Central Vol. 1	13-01341	13-01354
South Central Vol.3	13-01333	13-00774	East Central Vol. 2	13-01342	13-01355
South Central Vol.4	13-01334	13-00105	East Central Vol. 3	13-01343	13-01356
South Central Vol.5	13-01545	13-02002	North Central Vol. 1	13-01344	13-01357
Southeast Vol. 1	13-01335	13-01366	North Central Vol. 2	13-01345	13-01358
Southeast Vol. 2	13-01336	13-01367	North Central Vol. 3	13-01346	13-01359
Southeast Vol. 3	13-01337	13-01368	Northeast Vol. 1	13-01347	13-01360
Southeast Vol. 4	13-01338	13-00106	Northeast Vol. 2	13-01348	13-01361
Southwest Vol. 1	13-01339	13-01369	Northeast Vol. 3	13-01349	13-01362
Southwest Vol. 2	13-01340	13-01370	Northeast Vol. 4	13-02062	13-02063
Southwest Vol. 3	13-01445	13-01446	Northwest Vol. 1	13-01350	13-01363

CALIFORNIA AERONAUTICAL CHART

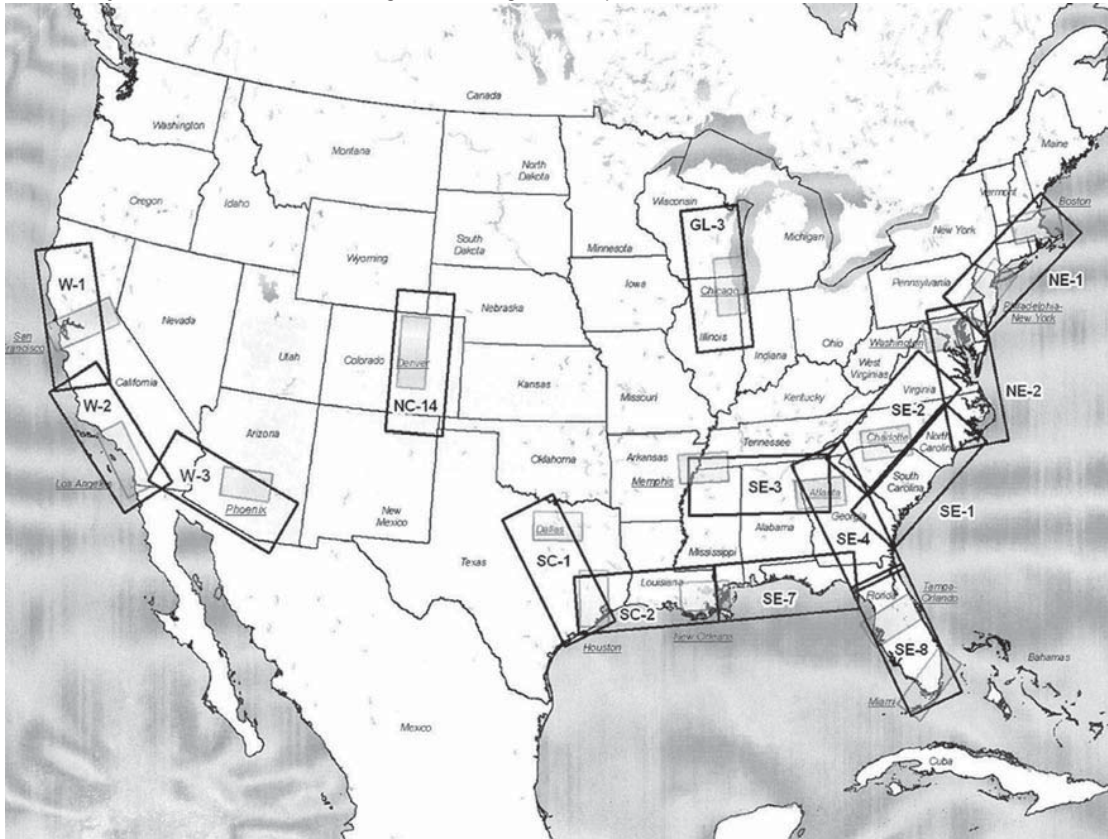
If you are planning a flight within the state of California, check out the 2002-2003 California Aeronautical Chart, which covers the entire state on one page and also include 5 sectional charts (Klamath Falls, San Francisco, Los Angeles, Phoenix and Las Vegas) The chart is designed for planning purposes, not for navigation.

P/N 13-30800.....

JEPPESEN VFR+GPS CHARTS

Jeppesen's new VFR+GPS Charts offer a fresh perspective on what a VFR chart should be with better use of color and contrast, coverage areas based on the way you fly, intuitive symbols for easier interpretation, and Space Shuttle radar data to more accurately depict terrain. Jeppesen VFR+GPS Charts are easier to use in the cockpit or at the kitchen table, they're designed to help you get more from your GPS, and they come from one of the most trusted names in aviation.

A VFR chart is only as good as your trust in the information provided and your ability to quickly interpret and act upon it. For students learning to fly, Jeppesen VFR+GPS Charts are easier to use and read, thanks to a more simplified layout. For instructors, they are easier to use as a teaching aid. And for all aviators, Jeppesen VFR+GPS Charts makes your VFR chart a more effective tool for flight planning, and you a more effective pilot, through enhancements like: Clear Airspace Boundaries—Easier recognition of controlled airspace with color-coding and clear labels to show airspace class and altitude segments. Streamlined Airport Symbolology—Jeppesen has updated familiar VFR chart symbology, making it easier to understand. This is especially important when approaching a busy unfamiliar airspace. GPS Waypoints—Jeppesen has updated familiar VFR chart symbology, making it easier to understand. This is especially important when approaching a busy unfamiliar airspace. JeppGuide® Airport Diagrams – With airport diagrams on the back, your VFR chart can be a useful guide from engine start-up to shut-down.



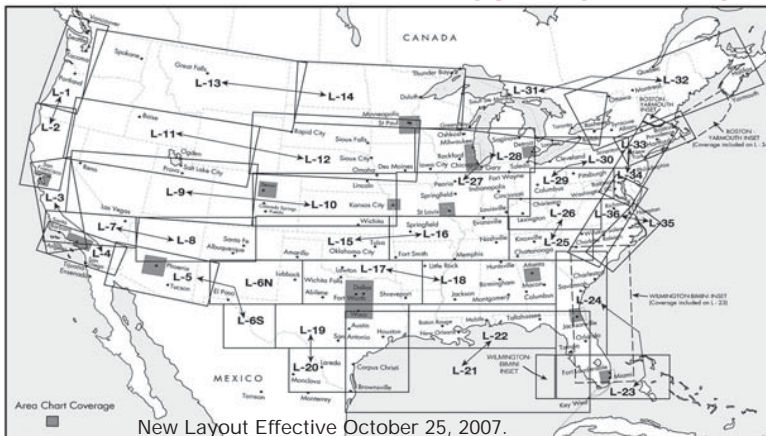
Type	Description	Part No.	Price
Enroute	GL-3, Chicago (CHI)	13-06520	.
Enroute	NC-14, Denver - Cheyene (DEN)	13-06521	.
Enroute	SC-1, Dallas - Houston (DAL)	13-06522	.
Enroute	SC-2, Houston - New Orleans (HOU)	13-06523	.
Enroute	SE-4, Georgia	13-06524	.
Enroute	SE-7, Northern Florida	13-06525	.
Enroute	SE-8, Southern Florida	13-06526	.
Enroute	NW-1, Northern California	13-06527	.
Enroute	W-2, Southern California	13-06528	.
Area	Atlanta (ALT)	13-06536	.
Area	Chicago (CHI)	13-06537	.
Area	Dallas - Ft. Worth (DAL)	13-06538	.
Area	Denver	13-06539	.
Area	Houston (HOU)	13-06540	.
Area	Los Angeles - San Diego (LA)	13-06541	.

Type	Description	Part No.	Price
Area	Miami (MIA)	13-06542	.
Area	New Orleans (NO)	13-06543	.
Area	San Francisco (SF)	13-06544	.
Area	Tampa - Orlando (TAM)	13-06545	.
Enroute	SE-1, South Carolina	13-06529	.
Enroute	SE-2, Charlotte (CHA)	13-06530	.
Area	Charlotte (CHA)	13-06546	.
Enroute	W-3, Phoenix	13-06532	.
Area	Phoenix (PHO)	13-06547	.
Enroute	NE-1, BOSTON (BOS)	13-06533	.
Enroute	NE-2, New York - Philadelphia	13-06534	.
Enroute	SE-3, Memphis (MEM)	13-06535	.
Area	Boston (BOS)	13-06548	.
Area	Memphis (MEM)	13-06549	.
Area	New York - Philadelphia (NY PHI)	13-06550	.

PS

INSTRUMENT NAVIGATION CHARTS

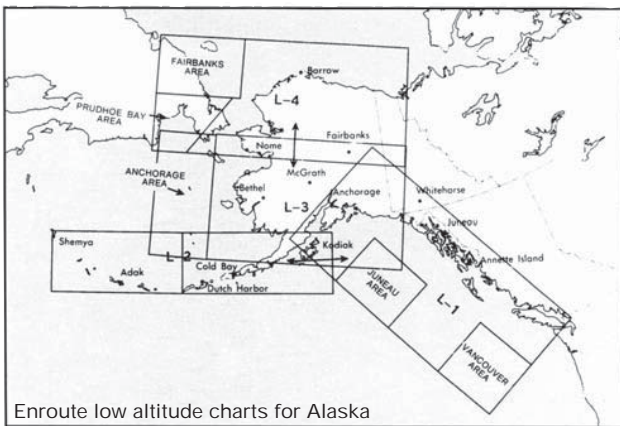
ENROUTE LOW ALTITUDE CHARTS



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..... /ea.
 Full Set (L1/2-L27/28 & Area Chart)
 Western U.S. Set (L1/2-L15/16 & Area Chart) P/N 13-30714
 Eastern U.S. Set (L11/12, L13/14, L17/18-L27/28 & Area Chart) P/N 13-30716
 Alaskan Set (Alaskan L1/2-Alaskan L3/4) P/N 13-30717
 For individual charts please call 877-4-SPRUCE or visit our website at: P/N 13-30718
www.aircraftspruce.com

Enroute low altitude charts for conterminous U.S. (includes area charts)



IFR GULF OF MEXICO VERTICAL FLIGHT REFERENCE CHART (HELICOPTERS)

THIS Chart features: IFR GPS waypoint grid system for direct routing to and from offshore platforms; Oil lease block information; NAVAID data, Airport data; Chart scale of 1:500,000; Two-sided printing; Available folded (5" x 9") or flat (45" x 36").

Area of coverage: From latitude 26° 20' north to the U.S. Gulf Coast. From approximately longitude 87° 30' west to the Texas Coast.

P/N 13-30721.....

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.

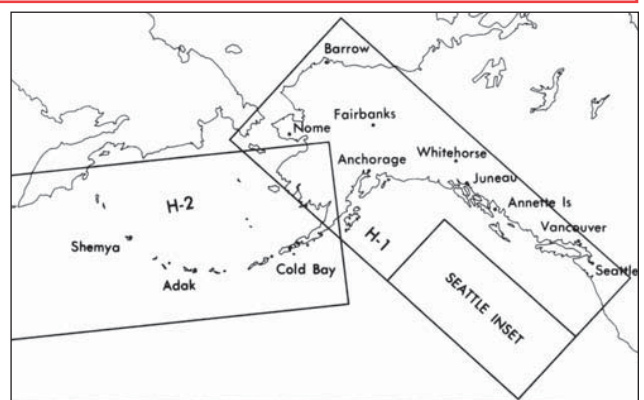
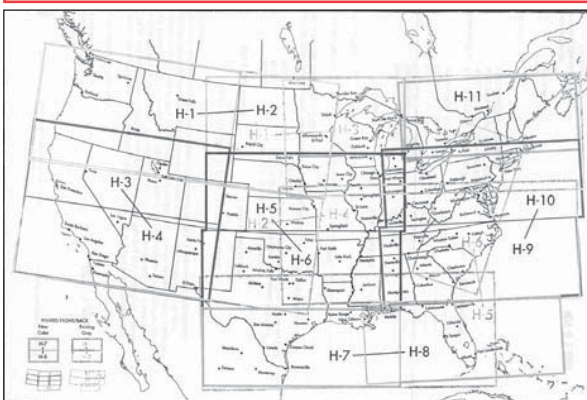
IFR ENROUTE HIGH ALTITUDE CHARTS

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.

Full Set (H1/H2, H3/H4, H5/6, H9/H10, H11), (H3/H4, H5/H6, H7/H8-very small area, H9/H10), (H3/H4-very small area, H5/H6, H7/H8, H9/H10, H11) P/N 8075-1

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.



CANADIAN AIA CHARTS

CANADIAN VNC (VFR) CHARTS

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.



VNC

Item	Title	Part No.	Price	Item	Title	Part No.	Price
5000	VNC Toronto	13-04425	.	5026	VNC Inukjuak	13-04487	.
5001	VNC Sault Ste Marie	13-04434	.	5027	VNC Ungava	13-04488	.
5002	VNC Montreal	13-04433	.	5028	VNC Whitehorse	13-04489	.
5003	VNC Moncton	13-04466	.	5029	VNC Ft Simpson	13-04490	.
5004	VNC Vancouver	13-04467	.	5030	VNC Yellowknife	13-04491	.
5005	VNC Calgary	13-04468	.	5031	VNC Rankin	13-04492	.
5006	VNC Regina	13-04469	.	5032	VNC Coats Isl.	13-04493	.
5007	VNC Winnipeg	13-04470	.	5033	VNC Frobisher	13-04494	.
5008	VNC Thunder Bay	13-04436	.	5034	VNC Klondike	13-04495	.
5009	VNC Timmins	13-04435	.	5035	VNC Great Bear Lake	13-04496	.
5010	VNC Chicoutimi	13-04471	.	5036	VNC Bathurst Inlet	13-04497	.
5011	VNC Anticosti	13-04472	.	5037	VNC Baker Lake	13-04498	.
5012	VNC Gander	13-04473	.	5038	VNC Foxe Basin	13-04499	.
5013	VNC Kitimat	13-04474	.	5039	VNC Cumberland	13-04501	.
5014	VNC Prince George	13-04475	.	5040	VNC MacKenzie	13-04502	.
5015	VNC Edmonton	13-04476	.	5041	VNC Amundsen	13-04503	.
5016	VNC Flin Flon	13-04477	.	5042	VNC Cambridge	13-04504	.
5017	VNC Big Trout	13-04478	.	5043	VNC Boothia	13-04505	.
5018	VNC James Bay	13-04479	.	5044	VNC Baffin Bay	13-04506	.
5019	VNC Wabush	13-04480	.	5045	VNC Banks Island	13-04507	.
5020	VNC Goose Bay	13-04481	.	5046	VNC Resolute	13-04508	.
5021	VNC Atlin	13-04482	.	5047	VNC Devon Island	13-04509	.
5022	VNC Fort Nelson	13-04483	.	5048	VNC Hazen Strait	13-04510	.
5023	VNC Athabasca	13-04484	.	5049	VNC Ellesmere	13-04511	.
5024	VNC Wollaston	13-04485	.	5050	VNC Alert	13-04512	.
5025	VNC Hudson Bay	13-04486	.	5099	VNC Alaska Highway	13-04516	.

CANADIAN WAC CHARTS



WAC

Item	Title	Spruce PN	Price
WACA5	C-WAC A5	13-04517	.
WACB7	C-WAC B-7	13-04518	.
WACB8	C-WAC B-8	13-04519	.
WACC9	C-WAC C-9	13-04520	.
WACC10	C-WAC C-10	13-04521	.
WACC11	C-WAC C-11	13-04522	.
WACD12	C-WAC D-12	13-04524	.
WACD14	C-WAC D-14	13-04526	.
WACD15	C-WAC D-15	13-04527	.
WACE17	C-WAC E-17	13-04530	.
WACE18	C-WAC E-18	13-04531	.
WACE19	C-WAC E-19	13-04532	.

LOW ALTITUDE ENROUTE CHARTS



Enroute Low and High Altitude charts provide aeronautical information for instrument navigation in the low and high airway 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.

Item	Title	Spruce PN	Price
LE12	LE12 Low Enroute Chart 1-2	13-04539	.
LE34	LE34 Low Enroute Chart 3-4	13-04541	.
LE56	LE56 Low Enroute Chart 5-6	13-04542	.
LE78	LE78 Low Enroute Chart 7-8	13-04543	.
LE910	LE910 Low Enroute Chart 9-10	13-04544	.



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.

PS

Item	Title	Spruce PN	Price
CAP1	NWT Canada Air Pilot	13-04553	.
CAP2	British Columbia Canada Air Pilot	13-04554	.
CAP3	Prairies Canada Air Pilot	13-04555	.
CAP4	Ontario Canada Air Pilot	13-04556	.
CAP5	Quebec (English) Canada Air Pilot	13-04557	.
CAP6	Quebec (French) Canada Air Pilot	13-04558	.
CAP7	Atlantic Canada Air Pilot	13-04559	.