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## Ordering Information and Policies

Here are a few definitions and procedure to make ordering easier.

**Phone Orders:** Call Van's between 8:00 a.m. And 4:30 p.m. Pacific Time any weekday. Van's is closed on weekends. Please have your builders (customer) number and all other necessary information ready: the catalog numbers of the items you are ordering, a valid shipping address (UPS cannot deliver to a Post Office Box), etc.

**Web Orders:** Shop and buy on-line at Van's Web Store. Simple, safe, and secure, the Web Store features an expanded Accessories Catalog and the option to purchase kit parts all through one system. Shop 24 hours a day, 7 days a week. Our web site is located <http://www.vansaircraft.com>

**Mail Orders:** Photocopy and use the order form included at the back of this catalog. Remember to include your builders number.

**Payment:** Builders of Van's Aircraft Kits are extended a credit line of up to \$100.00 on orders placed for parts. These orders will be shipped with an invoice and are NET DUE 30 days. For orders in excess of \$100.00 full payment is required. Either VISA or MC is acceptable. A personal check or certified check in US funds can be accepted with mail orders. COD orders can be accepted and will include associated charges.

**Credit Card Orders:** We accept MasterCard or VISA only.

**Shipments (within USA):** We ship UPS ground or FedEx unless you specify otherwise. UPS Overnight (red label), UPS Two Day (blue label), UPS Three Day (orange label) are available at additional cost. UPS requires a street address - a post office box is not sufficient. USPS is available but only *at your own risk* as there is no tracking available.

**Shipments (outside USA):** We ship FedEx, UPS or USPS Express. All services require a street address - a post office box is not sufficient. On small packages USPS Air Mail is available **but only at your own risk as there is no tracking available**. Both USPS Express and USPS Air Mail shipments are limited to **\$100.00**. All payments must be in US funds.

**Overseas Orders and Shipment:** All payments must be in US funds. If possible, we will ship UPS or Air Mail Post. Large orders will be sent through our usual shipping forwarder unless otherwise specified.

**Returns:** There is a 10% restocking charge on any returned item. Any item returned must be in "AS NEW" condition and be a product that we currently sell. No opened software may be returned. Custom manufactured components cannot be returned. Returns on **Avionics, Batteries, Electronics, Whelen lighting systems, and Instrumentation (gauges)** will only be accepted **within 60 days of purchase**. All other items may be returned within 2 years from the date of purchase. Only the **Original Purchaser may return items**.

**Back-Orders:** On occasion we may be out of an item you have ordered. We will generally ship items we have in stock and ship back ordered items as soon as they are available. However, if the major part of the order must be back ordered, we will hold the entire order until the back order is filled. You can help by giving instructions on dealing with back-orders when you place your order.

**Damaged, Defective Items or Missing Items:** Van's Aircraft is not responsible for shipping damages, but please contact our UPS shipping department here at Van's Aircraft as soon as possible for damaged shipments received through United Parcel Service, Federal Express, and the United States Postal Service. For all damaged shipments received through a trucking company, please contact the trucking company directly.

**Warranty:** All items not manufactured by Van's Aircraft are warranted by the maker. Return defective items to the manufacturer, not to Van's Aircraft.

**Crating and Packing Charges:** A "Handling Charge" and "Shipping Charges" will be added to orders with a minimum "Handling Charge" of \$4.00 per order. Handling and Shipping charges do not apply to Info Pack/Video packages and a printed copy of the Accessories Catalog when shipped by United States Postal Service..

**Prices:** All prices were current at time of printing. Prices are subject to change without notice. Please check our web site for current pricing information.

### THE BUYER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY AND APPLICATION OF THE PRODUCT

#### Van's Aircraft, Inc.

**Postal Mail Address:**

14401 NE Keil Rd.  
Aurora, OR 97002  
USA

**Phone/Fax:**

503.678.6545 phone  
503.678.6560 fax

**Web Site/E-mail:**

[www.vansaircraft.com](http://www.vansaircraft.com)  
[info@vansaircraft.com](mailto:info@vansaircraft.com)  
[support@vansaircraft.com](mailto:support@vansaircraft.com)

**Hours:**

Phone...8:00 am - 4:30 pm Pacific  
Fax...24 hours  
Internet...24 hours

Catalog Cover: Images by Ed Hicks, Bob Wahl and Jerry VanGrunsven

## www.vansaircraft.com

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### Miscellaneous Items

This is the section where we place items that do not fit well in other sections.

#### Replacement & Upgrade Parts

RV builder/pilots fly their airplanes a lot. Some items wear out and must be replaced and occasionally improvements are made to the kits that builders who have completed airplanes may want to incorporate.

#### Brake Pad Kit

Replacement Brake Pad Set

Replacement brake pad set includes four pads and the necessary number of rivets to reline the two main wheels (5:00X5) on any one or two place RV.



<b>BRAKE PAD KIT 5:00X5</b>	Four pads with rivets	\$ 30.00
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#### Paint Spray Gun

Apply Small Amounts of Paint or Primer

This primer pistol is a simple cost effective way to apply small amounts of primer or paint with minimal clean up and expense. It uses a disposable, small volume paint cup (35 mm film container) in concert with a simple venturi type air nozzle.



<b>PAINT SPRAY GUN</b>	Small Volume Sprayer	\$ 20.00
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#### Touch-Up Paint

Powder Coat Touch-Up Paint

Some of the steel parts supplied in the kits are powdercoated. This process began in 1999. Invariably, scratches will occur and we have small bottles of touch-up paint to cover the scratches.



<b>PAINT, TOUCHUP PGRAY</b>	Pearl Gray touch-up paint.	\$ 2.45
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#### Replacement Lamps

For ISSPRO or Van's Gauges

Select the correct replacement. The ISSPRO gauges have a snap-in bulb. The Vans gauges have a small bulb on the end of an extension. Check the faceplate of the instrument for the words ISSPRO or VANS.

<b>IE R7045</b>	ISSPRO Replacement Lamp	\$ 5.15
<b>IE IEV 12V LAMP</b>	Vans gauge replacement lamp	\$ 1.90

#### Replacement Bearings

Replace Those Tailwheel Bearings

When the tailwheel bearings wear out, no need to replace the wheel. Just order two bearings. At first, they will seem too big to fit in the wheel, but just get a larger persuader (hammer) and they slide right in.

<b>BEARING 3/8 TAIL WHL.</b>	Replacement bearings; 2 required	\$ 2.60
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#### Replacement Tailspring

Replacement Full Swivel Tailspring

Over the years there have been two types of full swivel tailsprings used on RV's: Early kit builders purchased an aftermarket unit from the company Aviation Products (it can be identified easily as it has a 1/2" axle) and we do not carry parts for that unit. **Aviation Products** phone number is: 805-646-6042. The Van's Aircraft full swivel tail system (which has a 3/8" axle bolt) uses the FSTS635-1 tailspring.



<b>FSTS 635-1</b>	Van's Full Swivel tailspring	\$ 75.00
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### New Tailwheel

If the Rubber Has Worn Off, Then Replace It

Six inch tailwheel as shipped in the RV kit for 3/8" axle only.



<b>U TAIL WHEEL 6"</b>	New tailwheel	<b>\$ 27.00</b>
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### Brake Fluid

Brake Fluid is a Mil Spec Item 5606A

The brake system does not use automotive grade brake fluid. Some mechanics claim auto style brake fluid will destroy the O-rings in your brake system. Best to use the correct fluid. The proper fluid will be red in color. Comes in one gallon cans which should last for a couple of years.....for a couple of RVs too.



<b>BRAKE FLUID 5606A</b>	Aircraft spec 5606A brake fluid	<b>\$ 15.95</b>
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### Brake Fluid Reservoir Breather Caps

Caps for the Reservoir Limits Fluid Loss When Inverted

Screened, vented caps for brake fluid reservoirs. No check valves, so they may leak slightly when inverted. This part has been standard on the reservoirs for the last 10 years, but they do get lost or misplaced.



<b>BB-CAP</b>	Brake reservoir cap	<b>\$ 1.50</b>
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### Master Cylinder Rebuild Kits

For Cleveland Master Cylinders

These kits provide replacement internal "O" rings to repair leaking master cylinders.



<b>BRAKE M/C REPAIR KIT</b>	Repair kits for Cleveland master cylinders	<b>\$ 8.63</b>
<b>BRAKE M/C RBD4 REPAIR</b>	Repair kit for Matco master cylinders	<b>\$ 6.00</b>

### Fuel Caps and Replacement Parts

Replacement Parts and O-Rings

Eventually you will look out on your wing just after take-off and notice that the tab on the fuel cap is sticking up because you failed to push it down. That is if you are lucky. If not so lucky, it will have rolled off the wing because you forgot to put it in the tank after refueling. Don't ask me how I know this little bit of wisdom!

The O-rings and stem seals around the fuel caps and cap center shafts don't last forever. When they wear, water may leak in with nasty results. Two styles of O-rings have been supplied in RV kits. They are not interchangeable. They are easily identified by color: older O-rings are black, newer ones are brown. The brown O-rings are generally auto fuel resistant, but their tolerance for the newer oxygenated auto fuels is unknown. The older (black) O-rings are no longer available.

Upgrading to the newer O-rings requires replacing the fuel cap. New fuel caps with brown O-rings are available and fit all the receptacles installed in the tanks.



<b>T-406A</b>	New replacement fuel cap	<b>\$ 25.00</b>
<b>FUEL CAP SEALS (EA)</b>	Fuel cap brown O-ring	<b>\$ 3.00</b>
<b>FUEL CAP 50</b>	Fuel cap stem seals	<b>\$ 1.00</b>
<b>FUEL CAP 40-SS</b>	Fuel cap stainless steel bearing washer	<b>\$ 2.14</b>

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### Deluxe Fuel Caps

Plain and Locking Fuel Caps

These fuel caps are being produced in England for a variety of homebuilt planes. They can fairly easily be adapted for use in Van's Aircraft fuel tanks. They consist of the cap, flange for tank mounting, and key set if a locking version. These caps will NOT fit the standard fuel tank flanges supplied in Van's kits so they are really only suitable for use if you are building new tanks. A fuel cap w/flange is sold as a single item. 2 fuel caps are required per airplane.



<b>FUEL CAP DELUX</b>	Plain Cap w/Flange	\$	75.00
<b>FUEL CAP DELUX W/LOCK</b>	Locking Cap w/Flange	\$	90.00

### Gascolator Replacement Parts

Replacement Parts for the GAS-1

For years we have sold the GAS-1 gascolator. Although we have a better mousetrap now, we are still supporting the GAS-1 with replacement parts.



<b>GAS-1 GASKET</b>	GAS-1 Bowl gasket	\$	1.50
<b>GAS-1 REPL SCREEN</b>	GAS-1 Bowl screen	\$	3.10

### Gasket Material

Tank Gaskets and Rubberized Cork Material for Tank Gaskets

Make your own tank cover gaskets with a 7" X 14" piece of 1/16" thick Cork Buna Material. If your kit came with pre-punched cover plates, you can order the replacement gaskets.



<b>GASKET 7X14</b>	1/16" MATERIAL 7"X14"	\$	4.00
<b>T-407 GASKET</b>	Pre-punched tank cover plate gasket	\$	2.30

### IE F-385 Sending Units and Gasket

Sending Units and Replacement Gaskets

Sending units and replacement gaskets are available for Stewart Warner, Isspro, and Van's fuel gauges.

<b>IE F-385B</b>	Sending unit for left tank	\$	23.00
<b>IE F-385C</b>	Sending unit for right tank	\$	23.00
<b>IE F-385 GASKET</b>	Replacement gaskets for remounting sending units	\$	1.25

### UHMW Tape

Tape for Protecting Rubbing Surfaces

This UHMW tape replaces the stainless steel tape previously used between the flap and the top wing skin to protect against scratches in the paint and even corrosion if the scrapes are neglected. Use this tape to protect leading edge of flap, canopy rails, etc., from scuffing. 3" X 10', or the 3" X 14' adhesive strip is enough to cover both flaps, depending on model.



<b>TAPE UHMW 3"X10'</b>	CLEAR UHMW TAPE 4/6/7/8	\$	11.00
<b>TAPE UHMW 3"X14'</b>	CLEAR UHMW TAPE 9/9A	\$	14.50

### Exhaust Pipe Gasket

Fit Between Engine Port and Pipe Flange

Blo-proof design prevents leaks, reusable. Four required per aircraft. New engines and exhaust systems from Van's are supplied with gaskets.



<b>EA GASKET 77611</b>	Cylinder head to exhaust pipe blo-proof gasket	\$	6.75
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### Carb/Sump Gasket

VA-149 Gasket

Replacement gasket for Carb/Sump.

<b>VA-149 GASKET</b>	Replacement Carb/Sump gasket	\$	0.90
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### Tires and Tubes

Replace Those Worn Treads, Main and Nose Gear

New 6-ply tires. 5:00x5 fits main gear of all RVs. 'Lamb' type tire fits nosewheel of RV-6A/8A ONLY.

<b>U 5:00X5-6</b>	Main Gear Tire	\$	44.00
<b>U 5:00X5-6IT</b>	Main Gear Tube	\$	36.00
<b>U LAMB TIRE</b>	Nose Gear Tire	\$	25.00
<b>U LAMB TUBE</b>	Nose Gear Tube	\$	7.50

### Tail Wheel Steering Spring Kit

Replace the Steering Springs, Chain and Clips

Contains the compression springs, chains and clips included in the original kit.



<b>BAG 489</b>	Steering chains and hardware	\$	14.70
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### Rudder Pedal Conversion Kit

Change to the Overhead Rudder Pedals

Converts RV-6/6A from floor mounted pedals (early 1990's) to new suspended overhead style.

<b>6RCK-A</b>	Convert to overhead rudder pedals in the RV -6/6A	\$	270.00
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### Firewall Sealant

Sealant for Firewall Structures

CS 1900 is a compound for sealing firewall structures. It is elastomeric at operating temperatures from minus 65 degrees to plus 400 degrees F and able to withstand flash temperatures of 2000 degrees F. This product can be used as a perimeter firewall seal on existing aircraft or during construction of new aircraft. In new aircraft, as the skins are being installed, the flange of the firewall should be coated with a thin layer and the skin riveted on while the material is still uncured ("wet").



<b>MC-CS-1900</b>	Firewall Sealant 6 oz.	\$	17.50
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### Fuel Tank Sealant

Required Sealant for Building Your Tanks

#### MC-236-B2 (Quart Kit)

The recommended sealer for RV fuel tanks, replaces older ProSeal. Limited shelf life (approximately 4 months from purchase). Order the Quart Kit when ready to seal tanks. With careful application, one can should do one airplane, even the larger RV-7 and RV-8 tanks, but many builders use more. Includes accelerator. Sealing compound and accelerator are mixed by WEIGHT at a ratio of 10:1. Save yourself a call. We know that the quart can does not contain a full quart of sealant. This is normal. :-)



#### MC-236-B1/2 (6 ounces)

A faster setting version of our fuel tank sealant in a smaller quantity(6 ounces). Very useful for the odd small job on the tank or trailing edges of the RV-9/9A empennage surfaces.

<b>MC-236-B2</b>	Tank sealant with accelerator QUART KIT	\$	39.30
<b>MC-236-B2 ACCELERATOR</b>	Extra accelerator ONLY for the QUART KIT	\$	14.40
<b>MC-236-B1/2</b>	Tank sealant with accelerator 6 OUNCE SIZE	\$	14.95

### Fuel Tank Quick Drain

No Excuse for Not Checking the Tanks on Preflight Now

Identical to the ones supplied in the wing kit. Replace them when they start leaking. Easy quickdrain for checking water in the tanks or the gascolator. 1/8" pipe thread.



<b>CAV-110</b>	Fuel tank quick drain	\$	8.90
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### Fuel Tank Test Kit

Check Fuel Tanks for Leaks

The kit includes hardware and instructions for foolproof tank testing. Use this simple method of leak testing your fuel tanks.



<b>FUEL TANK TEST KIT</b>	Fuel Tank Test Kit	\$	5.00
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### Fuel Tank Access Cover and Gasket

Tank Cover Plate With No Hole for Fuel Sender

Useful for tanks with flop tubes or when using a different fuel sender system. Gasket fits hole pattern in pre-punched covers.

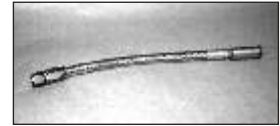


<b>T-411</b>	Tank access cover plate	\$	5.00
<b>T-407 GASKET</b>	Prepunched cover gasket	\$	2.30

### Inverted Fuel Pick-Up

'Flop-Tube'; Install in One Tank for Inverted Flight

If you intend to perform "sustained" inverted flight in your RV then you will need to purchase and install a "flop tube" in at least one of the fuel tanks. Your engine will also require an inverted oil system as well as fuel injection. Choose IF-3F for the RV-3 fuselage tank, the IF-3W for RV-3 wing tank. RV-4, RV-6/6A, RV-7/7A, RV-8/8A use IF-4/6. Includes the brass weight for the end of the hose. Does not apply to the RV-9A or RV-10.



<b>IF-3F</b>	RV-3 Fuselage tank flop tube	\$	38.00
<b>IF-3W</b>	RV-3 Wing tank flop tube	\$	33.00
<b>IF-4/6</b>	RV-4/6/6A/7/7A/8/8A Wing tank flop tube	\$	35.00

### Trim Tab Skin

Replacement Skins for Elevator Trim Tab

So, your #\*!@ tab didn't quite come out the way you wanted it? You don't have to buy an entire elevator skin! Just use our handy trim tab skin and get the thing right next time. Specify if pre-punched.



<b>TRIM TAB SKIN</b>	Non prepunched 0.016 elevator trim tab skin for RV-4,6	\$	9.00
<b>TRIM TAB SKIN-020</b>	Non prepunched 0.020 elevator trim tab skin for RV-4,6,8	\$	10.00
<b>E-619PP</b>	Prepunched 0.016 elevator trim tab skin for RV-6	\$	10.00
<b>E-619PP-1-020</b>	Prepunched 0.020 elevator trim tab skin for RV-7/7A/8/8A	\$	13.50
<b>E-919</b>	Prepunched 0.020 elevator trim tab skin for RV-9A	\$	20.00

### Tail Wheel Fairing

Can't Go Fast With the Wheel Hangin' Out; Fair it Up!

No mounting brackets or instructions are included. Good luck!

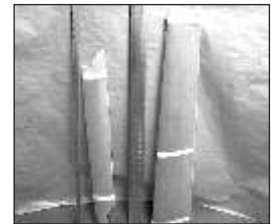


<b>TWF-T</b>	Tail wheel fairing	\$	40.00
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### Gear Leg Fairings

Fairings Increase the Speed of Your Aircraft Over 7mph

Gear leg fairings reduce the drag on your aircraft and enhance the appearance. Van's now offers both fiberglass fairings and metal fairings. Fiberglass fairings are now standard in kits.



<b>GEAR LEG FAIRING FLAT</b>	Fiberglass fairings for the RV-8 flat bar main gear legs	\$	95.00
<b>GEAR LEG FAIRING NOSE</b>	Fiberglass fairing for the nose strut (gear) of all trike models	\$	52.50
<b>GEAR LEG FAIRING ROD</b>	Fiberglass fairing for the round rod gear used on the RV-3,4,6,6A,7,7A,8A,9A.	\$	123.00
<b>GEAR LEG FAIRINGS</b>	Traditional metal gear leg fairing previously used on all models of RV's.	\$	30.00

**Info Pack / Video**

Van's Info Pack/Video includes a complete brochure and a video. The brochure contains extensive performance and specification charts, a corporate history and many photos taken during the construction of various RVs. Updated inserts including kit order forms, information about classes, insurance availability, engine and prop order forms and more are included. All Van's models are covered.

**Info Pack / Video**

Includes a Complete Brochure and a Thirty-Minute Video

**Van's Info Pack/Video** includes a complete brochure and the thirty-minute video, "The RV Story". The brochure contains extensive performance and specification charts, a corporate history and many photos taken during the construction of various RVs. Updated inserts including kit order forms, information about classes, insurance availability, engine and prop order forms and more are included. All Vans models are covered.



**"The RV Story"** video covers the capabilities of the various models. Some are pretty impressive! It also illustrates design theory and construction technique.

Many builders have played the video so many times, just for the inspirational value, that they've ordered a second copy before their airplane flies! The video may be ordered with the Info Pack, or individually.

Handling and Shipping charges do not apply to Information Packs and Videos when shipped by the **United States Postal Service (USPS), Domestic: Regular, or International: Mail.** For expedited and other types of shipping there is an additional charge to the customer.

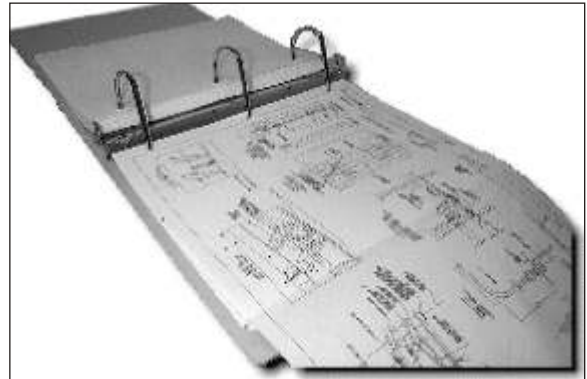
Part Number	Location	Format	Price
<b>INFO PACK W/VIDEO</b>	Info Pack with Video In USA	NTSC	\$ 16.00
<b>INFO PACK W/VIDEO INT</b>	Info Pack with Video Outside USA	PAL	\$ 30.00
<b>INFO PACK W/VIDEO SEC</b>	Info Pack with Video Outside USA	SECAM	\$ 30.00
<b>INFO PACK (DOMESTIC)</b>	Info Pack Only In USA	n/a	\$ 8.00
<b>INFO PACK (INTN'L)</b>	Info Pack Only Outside USA	n/a	\$ 10.00
<b>VIDEO RV STORY US</b>	Video Only In USA	NTSC	\$ 12.50
<b>VIDEO RV STORY PAL</b>	Video Only Outside USA	PAL	\$ 25.00
<b>VIDEO RV STORY SECAM</b>	Video Only Outside USA	SECAM	\$ 25.00

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Preview Plans Set  
The First Step



It's time to start on your RV! The preview plans set is the first step in the actual construction project, and the good news is that it only takes about \$50.00 to get started! Either before you purchase your first kit, or with it, you must order the Preview Plans Set. This contains the complete drawings for the entire airplane and a complete builder's manual. In fact the first few sections of the manual, explaining tools, workshop practice, plans reading, etc. are provided ONLY in the Preview Plans Set (you will get full-sized plans and updated sections of the manual with each sub-kit, see Plans/Manual for more information). Preview Plans have been reduced to 11"x17", and come in an attractive three-ring binder with our Accessories Catalog. They are easy to carry along on trips, or open on a desktop. They are revised only once or twice a year, so they are not the most current version, but they will serve their purpose: giving a new builder the "big picture".

Preview Plans Sets cost \$45.00 for the RV-3, \$50.00 for the RV-4, and \$55.00 for the RV-6/6A, 7/7A, 8/8A, 9/9A.

**This includes the cost of shipping within the Continental United States by UPS GROUND ONLY.**

**For expedited and other types of shipping there is an additional charge to the customer.**

For international customers, the price is \$40/45/50 respectively for the preview plans set, plus the cost of shipping.

If you choose to purchase the preview plans set with your kit, or you purchase the set in person, the price is \$40/45/50 respectively.

Part Number	Your Location	Shipping		Price
PREVIEW SET RV-3 UPS	IN USA	includes shipping	\$	45.00
PREVIEW SET RV-4 UPS	IN USA	includes shipping	\$	50.00
PREVIEW SET RV-6/6A U	IN USA	includes shipping	\$	55.00
PREVIEW SET RV-7/7A U	IN USA	includes shipping	\$	55.00
PREVIEW SET RV-8/8A U	IN USA	includes shipping	\$	55.00
PREVIEW SET RV-9/9A U	IN USA	includes shipping	\$	55.00
PREVIEW SET RV-3	OUTSIDE USA	shipping not included	\$	40.00
PREVIEW SET RV-4	OUTSIDE USA	shipping not included	\$	45.00
PREVIEW SET RV-6/6A	OUTSIDE USA	shipping not included	\$	50.00
PREVIEW SET RV-7/7A	OUTSIDE USA	shipping not included	\$	50.00
PREVIEW SET RV-8/8A	OUTSIDE USA	shipping not included	\$	50.00
PREVIEW SET RV-9/9A	OUTSIDE USA	shipping not included	\$	50.00



## RVator Newsletter

Van's Aircraft, Inc.'s Company Publication - 6 Issues Per Year

Published six times a year, the RVator is Van's company publication. It is not quite a full magazine, but it is much more than the average company "newsletter." It is the main method of communication between the company and its customers.

Since the RVator contains no display advertising, the usual 20-page issue contains information equal to about 40 or 50 pages of the average magazine. It contains news about new products and developments at Van's and experiences from builders all over the world. Regular features include building tips and thoughtful articles on flying proficiency and safety, written by people with lots of RV experience. In every issue, the "First Flights" and the famous "RV Grin" columns remind those still building that the end is in sight and worth all the work.



Most RV builders consider the RVator a necessity. Many people building other kit aircraft subscribe, too.

<b>RVATOR SUBSCRIP 2004</b>	RVator Subscription 2004 Domestic USA Includes all 2004 issues.	\$	15.00
<b>RVATOR INTRNL 2004</b>	RVator Subscription 2004 International Includes all 2004 issues.	\$	20.00
<b>RVATOR SINGLE ISSUE</b>	Specific Back Issue-Specify issue date(s) in "notes" when ordering	\$	3.00

## 21 Years of the RVator

Articles Have Been Excerpted and Combined from 1980 thru 2000

One publication with articles over the years 1980 thru 2000. All back issues of the RVator are not available, but much information and history is preserved here.



<b>RVATOR, 21 YEAR</b>	1980-2000 COLLECTION	\$	27.95
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## Standard Aircraft Handbook

Pocket Size Reference Book

Includes tons of essential data on practices, hardware specifications, tolerances, drill charts, torque tables, etc. Extremely useful.



<b>BOOK STD A/C HANDBOOK</b>	Reference handbook	\$	13.00
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## Aircraft Inspection & Repair

AC 43.13-1B

Surely one of the most useful documents ever published by the US government. Standard practices, repair techniques, torque tables, etc. A bible for light aircraft.



<b>DOC A/C INSP &amp; REPAIR</b>	AC 43.13-1B	\$	18.00
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1. Shop on-line at [www.vansaircraft.com](http://www.vansaircraft.com)  
 2. Call our order line at 503.678.6545

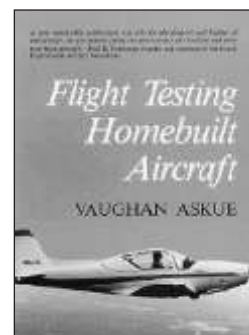
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 4. Use the order form to mail your order.

Van's Aircraft  
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## Flight Testing Homebuilt Aircraft

By Vaughn Askue

An excellent book on all phases of flight and performance testing.  
Highly recommended.



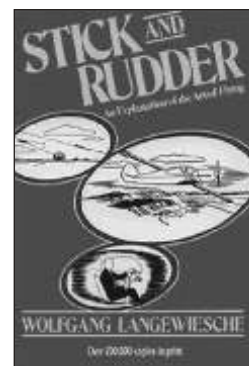
<b>BOOK FLIGHT TEST</b>	A to Z on flight testing	\$	18.00
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## Stick and Rudder

An Explanation of the Art of Flying

From the Publisher:

Stick and Rudder is the first exact analysis of the art of flying ever attempted. It has been continuously in print for thirty-three years, and has enjoyed steadily increasing sales. Flight instructors have found that the book does indeed explain important phases of the art of flying, in a way the learner can use. It shows precisely what the pilot does when he flies, just how he does it, and why.



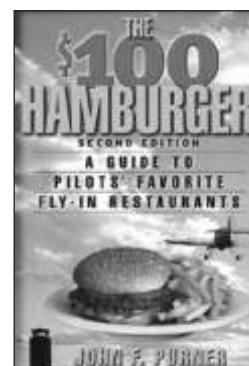
<b>BOOK STICK AND RUDDER</b>	Hardcover - Instructional Book	\$	13.00
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## The \$100 Hamburger

A Guide to Pilot's Favorite Fly-In Restaurants

From the Publisher: The burger is back and juicier than ever! 1,000 pilot-recommended places to land for that meal at the end of the flight.

Author John Purner rates restaurants in all 50 states and even includes 16 foreign locations including Canada, Mexico, the Bahamas, Australia, France, England, Italy, and Germany in this tasty combination travel, dining, and pilot guide. These reviews are PIREPs (Pilot Reports) from fellow pilots who've been there, chowed down, and awarded each joint from one to five "burgers." They tell you everything: location/quality/service/price/transportation as well as dress codes and hours of operation! Whether you're looking for a great place to eat or a good excuse to fly, The \$100. Hamburger, is your meal-ticket to adventure.



<b>BOOK \$100 HAMBURGER</b>	Paperback - Informational Book	\$	13.00
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## Accessories Catalog

CATALOG 2004

Order a free copy of our latest printed Accessories Catalog.

Add a copy of the Accessories Catalog when you place your order\* through the Web Store.

\*A copy of the Accessories Catalog is included with orders for "Preview Plans Set".

Free shipping and no handling charges when ordering just the catalog.



<b>CATALOG 2004</b>	ACCESSORY CATALOG	\$	20.00
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## Builders Manuals and Plans Pages

### Replacement Manuals and Plans

Available, in case the dog ate yours.

**PLANS UPDATE** Once in the life of a project we will replace your plans package with a new one, complete with new full size, plans, manual & catalog.

- NOTES:**
- These sets are only updated yearly and are intended as reference material **ONLY**.
  - Kits shipped after Jan 5, 1995, include plans. Order should be accompanied by a title block, clipped from old plans sheets.

<b>MANUAL-3</b>	Construction Manual	\$	25.00
<b>MANUAL-4</b>	Construction Manual	\$	25.00
<b>MANUAL-6/6A</b>	Construction Manual	\$	25.00
<b>MANUAL-6/6A QUICK</b>	Construction Manual	\$	21.50
<b>MANUAL-7/7A</b>	Construction Manual	\$	25.00
<b>MANUAL-8/8A</b>	Construction Manual	\$	25.00
<b>MANUAL-9/9A</b>	Construction Manual	\$	25.00
<b>PLAN PAGE REPLACEMENT</b>	Page replacement for plans. Specify page number and RV model in the notes area when ordering.	\$	3.00
<b>RV-3 PLANS-REV.</b>	One time plans update	\$	40.00
<b>RV-4 PLANS UPDATE</b>	One time plans update	\$	50.00
<b>RV-6/6A PLANS UPDATE</b>	One time plans update	\$	50.00
<b>RV-7/7A PLANS UPDATE</b>	One time plans update	\$	50.00
<b>RV-8/8A PLANS UPDATE</b>	One time plans update	\$	50.00
<b>RV-9/9A PLANS UPDATE</b>	One time plans update	\$	50.00
<b>PREVIEW PLANS RV-3</b>	11x17" Plans Set	\$	12.00
<b>PREVIEW PLANS RV-4</b>	11x17" Plans Set	\$	15.00
<b>PREVIEW PLANS RV-6/6A</b>	11x17" Plans Set	\$	20.00
<b>PREVIEW PLANS RV-7/7A</b>	11x17" Plans Set	\$	20.00
<b>PREVIEW PLANS RV-8/8A</b>	11x17" Plans Set	\$	20.00
<b>PREVIEW PLANS RV-9/9A</b>	11x17" Plans Set	\$	20.00

### Logbook

Logbooks are required for your RV.

#### Aircraft Builder's Logbook

Documents a Builder's Work Record

Comply with FAA requirements by using "The Standard Aircraft Builder's Logbook": 6.5 x 11"; spiral bound; sturdy oil resistant leatherette cover. The builder's log provides full Documentation through the completion of an aircraft project including, work performed, time spent, cost of the project, and source of materials. Space is provided on each page for progress photos which will be requested by FAA examiners at the time of final inspection.



<b>BOOK BUILDER LOGBOOK</b>	Aircraft Builder's Logbook	\$	19.00
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#### Logbook for Engine and Airframe Maintenance

Logbooks for Conditional Inspections as Required Maintenance

Typically three logbooks are required: Airframe, Powerplant and Propeller.



<b>BOOK LOG ENG &amp; AF</b>	Logbook for engine or airframe	\$	5.00
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## Videos on Construction, Tools, and Fiberglass

VIDEOS detail the construction of an RV-6A (or RV-8 where specified). Many new builders (of every RV model) have commented on the value of being able to SEE an operation before attempting it. PAL format available for most European countries, Australia, and others who use VHS/PAL.

RV TOOLS discusses and demonstrates the tools needed to build an RV.

### Videos

#### Construction, Tools, and Fiberglass Videos

Watch a product being built step by step.

Tapes available in VHS-NTSC (US video), VHS-PAL.

All videos not available in PAL.



<b>VIDEO TOOLS</b>	Tools of the trade	\$	15.00
<b>VIDEO EMP 6/7/8 PP</b>	Pre-punched emp construction	\$	35.00
<b>VIDEO EMP RV-9</b>	RV-9/9A EMP CONST.	\$	32.00
<b>VIDEO EMP CONST</b>	Non-punched emp	\$	35.00
<b>VIDEO WING CONST</b>	Jig,wing, aileron,tank, flap	\$	40.00
<b>VIDEO WING 7/8 PP</b>	Jig,wing, aileron,tank, flap	\$	40.00
<b>VIDEO FUSELAGE CONST.</b>	RV-6A fuselage	\$	50.00
<b>VIDEO FUSE-8 CONST</b>	RV-8 fuselage	\$	40.00
<b>VIDEO FIN. CONSTR.</b>	canopy, cowl, landing gear	\$	55.00
<b>VIDEO FIN-8 CONSTR.</b>	canopy, cowl	\$	32.00
<b>VIDEO SYSTEM INST</b>	engine controls, fuel and electrical systems	\$	40.00
<b>VIDEO FIBERGLASS 101</b>	Fiberglass techniques	\$	20.00
<b>VIDEO PAINTING 101</b>	Painting techniques	\$	25.00
<b>VIDEO BEEN THERE</b>	hints and techniques, filmed while building a prize-winner	\$	175.00
<b>VIDEO TOOLS PAL</b>	Tools of the trade	\$	25.00
<b>VIDEO EMP 6/7/8PP PAL</b>	Pre-punched emp construction PAL	\$	45.00
<b>VIDEO EMP CONST PAL</b>	Non-punched emp	\$	45.00
<b>VIDEO WING CONST PAL</b>	Jig,wing, aileron,tank, flap	\$	50.00
<b>VIDEO WING 7/8 PP PAL</b>	Jig,wing, aileron,tank, flap	\$	50.00
<b>VIDEO FUSE CONST. PAL</b>	RV-6A fuselage	\$	66.00
<b>VIDEO FUSE-8 CONS PAL</b>	RV-8 fuselage	\$	50.00
<b>VIDEO FIN. CONSTR.PAL</b>	canopy, cowl, landing gear	\$	70.00
<b>VIDEO FIN-8 CONST PAL</b>	canopy, cowl	\$	37.00
<b>VIDEO SYSTEM INST PAL</b>	engine controls, fuel and electrical systems	\$	49.38

Personal Attire  
Personal Attire and Jewelry.

Posters

Large 22" x 18" Posters

Elegantly simple, timelessly stylish, they feature some of Ed Hicks' finest photos. No more of those boring Renoirs or weird Picassos. Now you can cover your walls with these beautifully printed, high quality images of your favorite airplanes. To view larger images of each poster go to:

<http://www.vansaircraft.com/public/posters.htm>

Handling and Shipping charges do not apply to Posters when shipped by the **United States Postal Service (USPS), Domestic: Regular, or International: Mail.**

For expedited and other types of shipping there is an additional charge to the customer.



<b>POSTER RV-6</b>	RV-6 22"x18" POSTER	\$	7.50
<b>POSTER RV-7</b>	RV-7 22"x18" POSTER	\$	7.50
<b>POSTER RV-8</b>	RV-8 22"x18" POSTER	\$	7.50
<b>POSTER RV-8A</b>	RV-8A 22"x18" POSTER	\$	7.50
<b>POSTER RV-9</b>	RV-9 22"x18" POSTER	\$	7.50
<b>POSTER RV-9A</b>	RV-9A 22"x18" POSTER	\$	7.50

RV-10 T-Shirt

Preshrunk

Indigo Blue T-Shirt with Van's Total Performance logo on the front and a 'Cool' RV-10 isometric cutaway on the back.



Part Number	Color	Size	Price
<b>SHIRT 10 C.AWAY MED</b>	Indigo Blue	Medium	\$ 12.00
<b>SHIRT 10 C.AWAY L</b>	Indigo Blue	Large	\$ 12.00
<b>SHIRT 10 C.AWAY XL</b>	Indigo Blue	Extra Large	\$ 12.00
<b>SHIRT 10 C.AWAY XXL</b>	Indigo Blue	Extra Extra Large	\$ 13.00

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Van's Aircraft  
Ordering Options



**Van's Aircraft Caps**  
Low Profile Pro Style Caps

Soft Crown Low-Fitting two tone color caps. Several different color combinations to choose from.

These caps have "**Total Performance Van's Aircraft**", embroidered on the cap. One size fits all.



Part Number	Cap Color	Visor Color	Price
<b>CAP TP.BLACK/GREY</b>	GREY	BLACK	\$ 14.00
<b>CAP TP.NAVY/GREY</b>	GREY	NAVY	\$ 14.00
<b>CAP TP.DRK.GRN/KHAKI</b>	KHAKI	DARK GREEN	\$ 14.00
<b>CAP TP.NAVY/KHAKI</b>	KHAKI	NAVY	\$ 14.00

**RV-10 Caps**  
Low Profile Pro Style Caps

Soft Crown Low-Fitting two tone color caps. Two different color combinations to choose from.

These caps have the "RV-10" aircraft embroidered on the cap. One size fits all.



Part Number	Cap Color	Visor Color	Price
<b>CAP RV-10 D.GRN/KHAKI</b>	KHAKI	DARK GREEN	\$ 14.00
<b>CAP RV-10 BLACK/KHAKI</b>	KHAKI	BLACK	\$ 14.00

**RV Side-by-Side Caps**  
Low Profile Pro Style Caps

Soft Crown Low-Fitting two tone color caps. Several different color combinations to choose from.

These caps have a typical "**RV Side-by-Side**" aircraft embroidered on the cap. One size fits all.



Part Number	Cap Color	Visor Color	Price
<b>CAP S/S BLACK/GREY</b>	GREY	Black	\$ 14.00
<b>CAP S/S NAVY/GREY</b>	GREY	NAVY	\$ 14.00
<b>CAP S/S D.GRN/KHAKI</b>	KAHKI	DARK GREEN	\$ 14.00
<b>CAP S/S NAVY/KHAKI</b>	KAHKI	NAVY	\$ 14.00

**RV Tandem Caps**  
Low Profile Pro Style Caps

Soft Crown Low-Fitting two tone color caps. Several different color combinations to choose from. These caps have a typical "RV Tandem" aircraft embroidered on the cap. One size fits all.



Part Number	Cap Color	Visor Color	Price
CAP TNDM.BLACK/GREY	GREY	BLACK	\$ 14.00
CAP TNDM.NAVY/GREY	GREY	NAVY	\$ 14.00
CAP TNDM.D.GRN/KHAKI	KHAKI	DARK GREEN	\$ 14.00
CAP TNDM.NAVY/KHAKI	KHAKI	NAVY	\$ 14.00

**Polo Shirts**  
Knit Sport Shirts

"Port Authority" makes these knit sport shirts from combed cotton ring spun yarn for a very soft hand. These 100% cotton polo shirts are constructed from 7-ounce heavyweight pique for durability and long-term wear. Several different colors to choose from.

"Total Performance Van's Aircraft" is embroidered on the shirt. Garment has been washed to reduce shrinkage. **Sizes run large.**



Part Number	Color	Size	Price
SHIRT POLO BRGNDY MED	BURGUNDY	MEDIUM	\$ 17.50
SHIRT POLO BURGNDY LG	BURGUNDY	LARGE	\$ 17.50
SHIRT POLO BURGNDY.XL	BURGUNDY	EXTRA LARGE	\$ 17.50
SHIRT POLO BLUE MED	BLUE	MEDIUM	\$ 17.50
SHIRT POLO BLUE LG	BLUE	LARGE	\$ 17.50
SHIRT POLO BLUE XL	BLUE	EXTRA LARGE	\$ 17.50
SHIRT POLO NAVY MED	NAVY	MEDIUM	\$ 17.50
SHIRT POLO NAVY LG	NAVY	LARGE	\$ 17.50
SHIRT POLO NAVY XL	NAVY	EXTRA LARGE	\$ 17.50
SHIRT POLO D.GRN. MED	DARK GREEN	MEDIUM	\$ 17.50
SHIRT POLO D.GREEN LG	DARK GREEN	LARGE	\$ 17.50
SHIRT POLO D.GREEN XL	DARK GREEN	EXTRA LARGE	\$ 17.50

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Van's Aircraft  
Ordering Options

Coffee Mugs  
Van's 15oz. Mugs

These large 15oz. mugs are Microwave / Dishwasher Safe. Choose a RV-4, RV-6, RV-7A, RV-8, RV-8A, RV-9A, or RV-10 mug. All mugs contain the "Total Performance" logo.



<b>VANS MUG 4 CUTAWAY</b>	RV-4 Cutaway	\$	9.00
<b>VANS MUG 6 CUTAWAY</b>	RV-6 Cutaway	\$	9.00
<b>VANS MUG 7A</b>	RV-7A	\$	9.00
<b>VANS MUG 8</b>	RV-8	\$	9.00
<b>VANS MUG 8A</b>	RV-8A	\$	9.00
<b>VANS MUG 9A</b>	RV-9A	\$	9.00
<b>VANS MUG 10</b>	RV-10	\$	9.00

Van's Air Force

A Number of Items With the VAF (Van's Air Force) Logo ....  
Patch, Shirts, Caps, Coffee Mugs, and Decals



A full color design developed by the Home Wing of Van's Air Force near Portland, Oregon. Available on a number of items. Attractive and very popular!

<b>VAF CAP</b>	Cap	\$	14.00
<b>VAF PATCH</b>	Embroidered Patch	\$	7.00
<b>VAF MUG</b>	Coffee Mug	\$	7.00
<b>VAF EXPER DATA PLATE</b>	Stainless Steel Data Plate	\$	12.00
<b>VAF DECAL 5"</b>	Decal	\$	4.00
<b>VAF DECAL 12"</b>	Decal	\$	8.00
<b>SHIRT VAF SMALL</b>	Small Shirt	\$	12.00
<b>SHIRT VAF MEDIUM</b>	Medium Shirt	\$	12.00
<b>SHIRT VAF LARGE</b>	Large Shirt	\$	12.00
<b>SHIRT VAF X-LRG</b>	X-Lrg Shirt	\$	12.00
<b>SHIRT VAF XX-LRG</b>	XX-Lrg Shirt	\$	12.00

## 14k Gold Jewelry

This line of jewelry is made to order and shipped directly from the manufacturer unless specified otherwise. This should help the guys patch the relationship that is languishing as you slave away in the 'aircraft factory'. The Circular and Oval Pendant will be inlaid with any of the product items for the sum of the two items.



<b>JLRY RV-4 PN</b>	Pendant	\$	85.00
<b>JLRY RV-4 TT</b>	Tie Tac	\$	85.00
<b>JLRY RV-6 PN</b>	Pendant	\$	85.00
<b>JLRY RV-6 TT</b>	Tie Tac	\$	85.00
<b>JLRY RV-6A PN</b>	Pendant	\$	85.00
<b>JLRY RV-6A TT</b>	Tie Tac	\$	85.00
<b>JLRY RV-6A ER</b>	Earring	\$	85.00
<b>JLRY RV-8 PN</b>	Pendant	\$	85.00
<b>JLRY RV-8 TT</b>	Tie Tac	\$	85.00
<b>JLRY RV-8A PN</b>	Pendant	\$	85.00
<b>JLRY RV-8A TT</b>	Tie Tac	\$	85.00
<b>JLRY 9 CYL ENG W/DIA</b>	Radial engine with diamond	\$	350.00
<b>JLRY 9 CYL ENG W/O DI</b>	Radial Engine	\$	185.00
<b>JLRY CIRCLE PN</b>	Circular Pendant	\$	60.00
<b>JLRY OVAL PN</b>	Oval Pendant	\$	110.00
<b>JLRY H/S PROP IN OVAL</b>	Hamilton Standard Prop	\$	165.00
<b>JLRY LARGE HS PROP TT</b>	Hamilton Standard Tie Tac	\$	55.00
<b>JLRY SMALL HAM STD ER</b>	Hamilton Standard Earring	\$	75.00
<b>JLRY SMALL HS PROP TT</b>	Hamilton Standard Tie Tac	\$	40.00
<b>JLRY WOOD PROP TT</b>	Wood Prop Tie Tac	\$	50.00

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Van's Aircraft  
Ordering Options

## Tools

Van's stocks a few tools as a convenience to our customers. We are not tool specialists.

### Cleco Fasteners

Clecos for 1/8, 3/32 Rivets and AN3 Bolts

It's impossible to have too many. Quantity shown is minimum necessary to build an RV-4/6/6A/8. QuickBuilders may get by with fewer...but ending up short is frustrating and they aren't that expensive.

Part Number	Switch/Breaker	Breaker		Price
<b>ES PBB-5</b>	TOGGLE TYPE	5AMP	\$	21.00
<b>ES PBB-10</b>	TOGGLE TYPE	10 AMP	\$	21.00
<b>ES PBB-15</b>	TOGGLE TYPE	15 AMP	\$	21.00

### Safety Wire

0.032 and 0.041 SS Safety Wire

Used everywhere on airplanes. Extremely useful in other places, too. Available in 0.032" and 0.041" diameters.

<b>WIRE SAFETY .032</b>	STANLESS 1 LB	\$	7.00
<b>WIRE SAFETY 041</b>	STANLESS 1 LB	\$	6.50

### Cutting Disc

Works in Drill or Die Grinder for Fiberglass and Plexiglas

Works on aluminum, but is especially good for fiberglass and Plexiglas. Used with drill or die grinder.

<b>TOOL 3" CUTTING DISC</b>	Cutting Disc	\$	1.60
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### Riveting Tape

Holds Rivet in Place While Driving Rivets

3/4" wide with adhesive along both edges only. Great for holding rivets in whileback-riveting. One or two rolls should be enough for one airplane.

<b>TAPE #685 RIV ETERS</b>	Riveters Tape	\$	6.00
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### Scotchbrite Wheel

Deburring Wheel for Cleaning Edges of Aluminum

A must for deburring and polishing edges. One wheel should last for the entire project; until you discover other uses for it. 6" diameter, 1" width, 3/8" arbor.

<b>TOOL SBW</b>	Scotchbrite Wheel	\$	45.50
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Other Suppliers

**Avery Enterprises\***

411 Aviator Drive  
 Ft. Worth, TX 76179  
<http://www.averytools.com>  
 Toll Free Order Line: 1-800-OK-AVERY  
 Tech Info / Customer Service: 817-439-8400  
 Fax: 817-439-8402  
 e-mail: [info@averytools.com](mailto:info@averytools.com)

**Brown Aviation Tool Supply**

3801 S. Meridian Ave.  
 Oklahoma City, OK 73008  
<http://www.browntool.com>  
 Toll Free: 1-800-587-3883  
 Phone: 405-688-6888  
 Fax: 405-688-6555  
 e-mail: [browntool@aol.com](mailto:browntool@aol.com)

**Cleaveland Aircraft Tool and Material\***

2225 First Street  
 Boone, IA 50036  
<http://www.cleavelandtool.com>  
 Order Phone: 1-800-368-1822  
 Questions: 515-432-6794  
 Fax: 515-432-7804  
 e-mail: [mail@cleavelandtool.com](mailto:mail@cleavelandtool.com)

**Clinton Aircraft Tool & Supply, Inc.**

616 Ridge Crossing Drive  
 Woodstock, GA 30189  
<http://www.clintontools.com>  
 Toll Free: 1-888-545-2287  
 Phone: 404-766-3222  
 Fax: 678-445-7242  
 E-mail: [info@clintontools.com](mailto:info@clintontools.com)

**Aircraft Spruce and Specialty West**

225 Airport Circle  
 Corona, CA 91720  
<http://www.aircraft-spruce.com>  
 Order Dept.: 1-800-824-1930  
 Customer Service: 1-800-861-3192  
 Phone: 909-372-9555  
 Fax: 909-372-0555  
 e-mail: [info@aircraft-spruce.com](mailto:info@aircraft-spruce.com)

**Isham's Air & Pneumatic Tools  
 for Aviation**

Phone: 316-755-0713  
 Fax: 316-755-0713  
<http://www.planetools.com>  
 E-mail: [sales@planetools.com](mailto:sales@planetools.com)

**Aircraft Spruce and Specialty East**

900 S. Pine Hill Rd.  
 Griffin, GA 30223  
<http://www.aircraft-spruce.com>  
 Order Dept.: 1-800-831-2949  
 Customer Service: 1-800-443-1448  
 Phone: 770-228-3901  
 Fax: 770-229-2329  
 e-mail: [info@aircraft-spruce.com](mailto:info@aircraft-spruce.com)

**Professional Air Riveting Tools**

82 Wendy Drive  
 Poughquag, NY 12570  
<http://www.rivettools.com>  
 Toll Free: 1-800-445-5075  
 Fax: 845-724-5224  
 e-mail: [RivetTools@aol.com](mailto:RivetTools@aol.com)

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 Toll Free (USA & Canada):  
 1-800-248-0638  
 Phone: 517-739-1447  
 Fax: 517-739-1448  
 e-mail: [info@aircraft-tool.com](mailto:info@aircraft-tool.com)

**U.S. Industrial Tool & Supply  
 Company**

15101 Cleat Street  
 Plymouth, MI 48170-6098  
<http://www.ustool.com>  
 Phone: 1-800-521-4800  
 Fax: 734-455-3256  
 e-mail: [info@ustool.com](mailto:info@ustool.com)

\*Avery and Cleaveland are run by RV builders

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Van's Aircraft  
 Ordering Options

## Bolts, Nuts, Washers, Screws

These are the basic threaded fasteners and the nuts/nutplates.

### Bolts

#### AN3 and AN4 Bolts

- The number after the '-' indicates bolt length but is not directly converted to inches. The table must be used to determine grip length. GRIP LENGTH or **GRIP** is the distance from the base of the head to the first thread on the shank.
- The first number after the 'AN' designates bolt diameter in 16th of an inch.
- The trailing 'A' designator indicates no hole in threaded portion of the bolt.
- An 'H' designates a hole in the hex head of the bolt.

Part #	Dia	Grip		Price
AN3-3A	3/16	1/16	\$	0.11
AN3-4	3/16	1/8	\$	0.25
AN3-4A	3/16	1/8	\$	0.11
AN3-5	3/16	1/4	\$	0.40
AN3-5A	3/16	1/4	\$	0.12
AN3-6	3/16	3/8	\$	0.32
AN3-6A	3/16	3/8	\$	0.12
AN3-7	3/16	1/2	\$	0.41
AN3-7A	3/16	1/2	\$	0.14
AN3-10	3/16	5/8	\$	0.46
AN3-10A	3/16	5/8	\$	0.17
AN3-11	3/16	3/4	\$	0.49
AN3-11A	3/16	3/4	\$	0.20
AN3-12	3/16	7/8	\$	0.51
AN3-12A	3/16	7/8	\$	0.22
AN3-13A	3/16	1"	\$	0.22
AN3-14	3/16	1 1/8	\$	0.50
AN3-14A	3/16	1 1/8	\$	0.23
AN3-15	3/16	1 1/4	\$	0.49
AN3-15A	3/16	1 1/4	\$	0.24
AN3-16A	3/16	1 3/8	\$	0.26
AN3-17A	3/16	1 1/2	\$	0.30
AN3H17A	3/16	1 1/2	\$	0.48
AN3-20A	3/16	1 5/8	\$	0.37
AN3-21	3/16	1 3/4	\$	0.56
AN3-21A	3/16	1 3/4	\$	0.34
AN3-22A	3/16	1 7/8	\$	0.35
AN3-23A	3/16	2"	\$	0.43
AN3-24A	3/16	2 1/8	\$	0.66
AN3-25A	3/16	2 1/4	\$	0.71
AN3-27A	3/16	2 1/2	\$	0.74
AN3-33A	3/16	3"	\$	1.03
AN3-36A	3/16	3 3/8	\$	1.00
AN3-42A	3/16	3 7/8	\$	1.40
AN3-52	3/16	4 7/8	\$	5.25
AN4-3A	1/4	1/16	\$	0.20
AN4-4	1/4	1/16	\$	0.30
AN4-4A	1/4	1/16	\$	0.14
AN4H4A	1/4	1/16	\$	0.21
AN4-5	1/4	3/16	\$	0.30

Part #	Dia	Grip		Price
AN4-5	1/4	3/16	\$	0.30
AN4-5A	1/4	3/16	\$	0.14
AN4-6	1/4	5/16	\$	0.31
AN4-6A	1/4	5/16	\$	0.14
AN4H6A	1/4	5/16	\$	0.42
AN4-7	1/4	7/16	\$	0.30
AN4-7A	1/4	7/16	\$	0.17
AN4-10	1/4	9/16	\$	0.21
AN4-10A	1/4	9/16	\$	0.19
AN4-11	1/4	11/16	\$	0.32
AN4-11A	1/4	11/16	\$	0.20
AN4-12	1/4	13/16	\$	0.34
AN4-12A	1/4	13/16	\$	0.21
AN4-13	1/4	15/16	\$	0.38
AN4-13A	1/4	15/16	\$	0.23
AN4-14	1/4	1 1/16	\$	0.38
AN4-14A	1/4	1 1/16	\$	0.26
AN4-15A	1/4	1 3/16	\$	0.34
AN4-16	1/4	1 5/16	\$	0.44
AN4-16A	1/4	1 5/16	\$	0.31
AN4-17	1/4	1 7/16	\$	0.49
AN4-17A	1/4	1 7/16	\$	0.34
AN4-20A	1/4	1 9/16	\$	0.39
AN4-21	1/4	1 11/16	\$	0.61
AN4-21A	1/4	1 11/16	\$	0.39
AN4-22A	1/4	1 13/16	\$	0.41
AN4-23A	1/4	1 15/16	\$	0.43
AN4-24	1/4	2 1/16	\$	0.47
AN4-25	1/4	2 3/16	\$	0.74
AN4-25A	1/4	2 3/16	\$	0.51
AN4-26	1/4	2 5/16	\$	0.60
AN4-26A	1/4	2 5/16	\$	0.50
AN4-27	1/4	2 7/16	\$	0.69
AN4-27A	1/4	2 7/16	\$	0.54
AN4-30A	1/4	2 9/16	\$	0.54
AN4H30A	1/4	2 9/16	\$	0.52
AN4-31A	1/4	2 11/16	\$	0.69
AN4-32	1/4	2 13/16	\$	0.85
AN4-32A	1/4	2 13/16	\$	0.66
AN4-34	1/4	3 1/16	\$	0.94

## Bolts

### AN5 thru AN8 Bolts

- The number after the '-' indicates bolt length but is not directly converted to inches. The table must be used to determine grip length. **GRIP LENGTH** or **GRIP** is the distance from the base of the head to the first thread on the shank.
- The first number after the 'AN' designates bolt diameter in 16th of an inch.
- The trailing 'A' designator indicates no hole in threaded portion of the bolt.
- An 'H' designates a hole in the hex head of the bolt.

Part #	Dia	Grip	Price	Part #	DIA	GRIP	Price	Part #	Dia	Grip	Price
AN5-4A	5/16	1/16	\$ 0.33	AN7-20	7/16	1 7/16	\$ 1.70	AN5-27A	5/16	2 7/16	\$ 0.79
AN5-5A	5/16	3/16	\$ 0.24	AN7-20A	7/16	1 7/16	\$ 1.50	AN5-50A	5/16	4 9/16	\$ 3.00
AN5-6A	5/16	5/16	\$ 0.34	AN7-21	7/16	1 9/16	\$ 2.10	AN5-52A	5/16	4 13/16	\$ 7.00
AN5-7	5/16	7/16	\$ 0.66	AN7-21A	7/16	1 9/16	\$ 1.92	AN6-6A	3/8	3/16	\$ 0.45
AN5-7A	5/16	9/16	\$ 0.33	AN7-43	7/16	3 13/16	\$ 3.50	AN6-10A	3/8	7/16	\$ 0.45
AN5-10A	5/16	11/16	\$ 0.35	AN7-44	7/16	3 15/16	\$ 4.00	AN6-12A	3/8	11/16	\$ 0.65
AN5-11A	5/16	15/16	\$ 0.34	AN7H82AP	7/16	7 11/16	\$ 13.20	AN6-17A	3/8	1 5/16	\$ 0.63
AN5-13A	5/16	1 5/16	\$ 0.37	AN8-22A	1/2	1 9/16	\$ 1.79	AN6-20A	3/8	1 7/16	\$ 0.71
AN5-16A	5/16	1 7/16	\$ 0.49	AN8-44	1/2	3 13/16	\$ 5.15	AN6-21A	3/8	1 9/16	\$ 0.79
AN5-17A	5/16	1 9/16	\$ 0.40	AN8-45	1/2	3 15/16	\$ 5.15	AN6-24	3/8	1 15/16	\$ 0.98
AN5-20A	5/16	1 11/16	\$ 0.52	AN8-50	1/2	4 5/16	\$ 12.00	AN6-30	3/8	2 7/16	\$ 1.10
AN5-21A	5/16	1 11/16	\$ 0.59	AN8-52	1/2	4 9/16	\$ 12.00	AN6-31	3/8	2 9/16	\$ 1.80
AN5-22	5/16	1 13/16	\$ 0.70	AN8-63A	1/2	5 11/16	\$ 12.50	AN6-32	3/8	2 11/16	\$ 1.80
AN5-22A	5/16	1 13/16	\$ 0.63	AN8H82AP	1/2	7 9/16	\$ 14.50	AN6-34	3/8	2 15/16	\$ 2.33
AN5-24A	5/16	2 1/16	\$ 0.70	AN103127	3/8		\$ 3.50	AN6-53	3/8	4 13/16	\$ 12.00
AN5-25A	5/16	2 3/16	\$ 0.72	AN103224	7/16		\$ 4.56	AN6-60A	3/8	5 7/16	\$ 8.50

## Bolts and Pins

### Clevis Bolts and Pins

Clevis Bolts and Pins with Hole for Cotter Pin. Clevis bolts (AN2x) are threaded and have a hole for a cotter pin unless designated with an "A". Clevis Pins (MS20392) are non-threaded and have a hole for a cotter pin.

Part #	Dia	Grip	Price	Part #	Dia	Grip	Price	Part #	Dia	Grip	Price
MS20392-1C11	1/8	0.344	\$ 0.40	MS20392-1C11	1/8	0.344	\$ 0.40	MS20392-1C11	1/8	0.344	\$ 0.40
MS20392-2C11	3/16	0.344	\$ 0.43	MS20392-2C11	3/16	0.344	\$ 0.43	MS20392-2C11	3/16	0.344	\$ 0.43
MS20392-2C13	3/16	0.406	\$ 0.50	MS20392-2C13	3/16	0.406	\$ 0.50	MS20392-2C13	3/16	0.406	\$ 0.50
MS20392-2C53	3/16	1.656	\$ 0.51	MS20392-2C53	3/16	1.656	\$ 0.51	MS20392-2C53	3/16	1.656	\$ 0.51
				MS20392-3C21	1/4	0.656	\$ 0.43	MS20392-3C21	1/4	0.656	\$ 0.43

## Close Tolerance Bolts

### Spar Bolts

Bolts used in applications where a tight fit is required.

Part #	Dia	Grip	Price	Part #	Dia	Grip	Price	Part #	Dia	Grip	Price
NAS1304-26	1/4	1.625	\$ 1.00	NAS1304-50	1/4	3.125	\$ 2.71	NAS1306-38	3/8	2.375	\$ 28.00
NAS1304-30	1/4	1.875	\$ 2.00	NAS1305-26	5/16	1.625	\$ 3.86	NAS1307-50	3/8	3.125	\$ 6.29
NAS1304-32	1/4	2"	\$ 1.91	NAS1306-26	3/8	1.625	\$ 2.50	NAS6206-27	3/8	1.687	\$ 3.64
NAS1304-46	1/4	2.875	\$ 4.29	NAS1306-30	3/8	1.875	\$ 2.06				
NAS1304-50	1/4	3.125	\$ 2.71	NAS1306-32	3/8	2"	\$ 5.14				

## Hex Head Bolts (non AN)

Commercial grade bolts.

Part Number	Dia	Qty/0.01lb	Price/lb	Part Number	Dia	Length	Price
AN426AD4-5	1/8	23	\$ 20.71	BOLT HEX 1/4X 20-8	1/4-20	8"	\$ 0.74
AN426AD4-6	1/8	19	\$ 19.64	BOLT HEX 5/16-18X 1	5/16-18	1"	\$ 0.11
AN426AD4-7	1/8	17	\$ 18.58	BOLT HEX 5/16-18X1 DH	5/16-18	1" Drilled head	\$ 0.87
AN426AD4-8	1/8	15	\$ 18.36	BOLT METRIC 8.8 M5 DH			\$ 1.97

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## Nuts

Aircraft Grade Nuts and Others Too!

Castellated (castle), jam, thin jam nuts, Nylok (stop-nuts), all metal lock nuts, low profile, commercial grade and Tinnerman nuts.

Part Number	Type	Dia	Price
AN365-720A	Nylok	7/16-20	\$ 0.48
AN365-820A	Nylok	1/2-20	\$ 0.45
MS21083-N3	Nylok Thin	3/16-32	\$ 0.09
MS21083-N5	Nylok Thin	5/16-24	\$ 0.16
MS21083-NB	Nylok Thin	1/2-20	\$ 0.43
MS21025-20	Axle Nut, Nose	1.250-16	\$ 9.50
MS21042-06	All Metal Lock	6-32	\$ 0.14
MS21042-3	All Metal Lock	3/16-32	\$ 0.15
MS21042-4	All Metal Lock	1/4-28	\$ 0.18
MS21045-3	All Metal Lock	3/16-32	\$ 0.15
MS21045-5	All Metal Lock	5/16-24	\$ 0.40
NAS 1022N10	Nylok	5/8	\$ 0.85
NAS-487-20	Instrument Nut	6-32	\$ 0.70
NUT 1/4-20 SELF LOCK	Nylok	1/4-20	\$ 0.10
NUT HEX 1/4-20	Nut	1/4-20	\$ 0.02
NUT TINNERMAN 1/4-20	Tinnerman	1/4	\$ 0.30
NAS679A6	Low Profile, Self Locking	3/8-24	\$ 0.55
VA-106	Axle Nut, Main	1 1/4	\$ 14.30

Part Number	Type	Dia	Price
AN365-720A	Nylok	7/16-20	\$ 0.48
AN365-820A	Nylok	1/2-20	\$ 0.45
MS21083-N3	Nylok Thin	3/16-32	\$ 0.09
MS21083-N5	Nylok Thin	5/16-24	\$ 0.16
MS21083-NB	Nylok Thin	1/2-20	\$ 0.43
MS21025-20	Axle Nut, Nose	1.250-16	\$ 9.50
MS21042-06	All Metal Lock	6-32	\$ 0.14
MS21042-3	All Metal Lock	3/16-32	\$ 0.15
MS21042-4	All Metal Lock	1/4-28	\$ 0.18
MS21045-3	All Metal Lock	3/16-32	\$ 0.15
MS21045-5	All Metal Lock	5/16-24	\$ 0.40
NAS 1022N10	Nylok	5/8	\$ 0.85
NAS-487-20	Instrument Nut	6-32	\$ 0.70
NUT 1/4-20 SELF LOCK	Nylok	1/4-20	\$ 0.10
NUT HEX 1/4-20	Nut	1/4-20	\$ 0.02
NUT TINNERMAN 1/4-20	Tinnerman	1/4	\$ 0.30
NAS679A6	Low Profile, Self Locking	3/8-24	\$ 0.55
VA-106	Axle Nut, Main	1 1/4	\$ 14.30

## Nutplates

Nut is attached with 2ea rivets [3/32 (AD3)] or blind rivets.

Part Number	Desc	Description	Price
K1000-06	6-32	Anchor Nut, Std size	\$ 0.18
K1000-08	8-32	Anchor Nut, Std size	\$ 0.18
K1000-3	AN3	Anchor Nut, Std size	\$ 0.20
K1000-4	AN4	Anchor Nut, Std size	\$ 0.30
K1000-5	AN5	Anchor Nut, Std size	\$ 0.56
K1000-6	AN6	Anchor Nut, Std size	\$ 1.29
K1100-06	6-32	Anchor Nut, Dimpled, Std size	\$ 0.48
K1100-08	8-32	Anchor Nut, Dimpled, Std size	\$ 0.28
MK1000-428	AN4	Anchor Nut, Miniature	\$ 0.34
MS21051-L08	8-32	Anchor Nut, One Leg, Std size	\$ 0.26
MS21051-L3	AN3	Anchor Nut, One Leg, Std size	\$ 0.27
MS21053-L08	8-32	Anchor Nut, One Leg, Dimpled, Std size	\$ 0.65
MS21055-L08	8-32	Anchor Nut, Corner Type, Std size	\$ 0.25
MS21071-L08	8-32	Anchor Nut, One Leg, Miniature	\$ 0.52

## Washers

AN Washers and More

Big Washers, Small Washers, Flat Washers, Lock Washers and Flush Washers.

Part Number	ID	OD		Price
AN960-6	#6	0.375	\$	0.02
AN960-8	#8	0.375	\$	0.02
AN960-10	AN3	0.438	\$	0.03
AN960-10L	AN3	0.438	\$	0.03
AN960-416	AN4	0.500	\$	0.03
AN960-416L	AN4	0.500	\$	0.03
AN960-516	AN5	0.562	\$	0.03
AN960-516L	AN5	0.562	\$	0.03
AN960-616	AN6	0.625	\$	0.03
AN960-616L	AN6	0.625	\$	0.03
AN960-716	AN7	0.750	\$	0.04
AN960-816	AN8	0.875	\$	0.05
AN960-816L	AN8	0.875	\$	0.05
AN960-1016	5/8	1.188	\$	0.07
AN960-1216	3/4	1.312	\$	0.14
AN960-2016	1.25	2.00	\$	1.10
AN970-3	AN3	0.875	\$	0.05
AN970-4	AN4	1.125	\$	0.06
AN970-5	AN5	1.375	\$	0.11
AN970-6	AN6	1.625	\$	0.12
AN970-7	AN7	1.812	\$	0.39
AN970-8	AN8	2.00	\$	0.30
MS35333-39	AN3	Internal Lock	\$	0.03
MS35333-40	AN4	Internal Lock	\$	0.03

Part Number	ID	OD		Price
		0.8"		
WASHER 062 25783054	AN6	Hardened	\$	0.15
WASHER 5702-475-48 Z3	AN3		\$	0.12
WASHER 5702-617-125	AN8		\$	2.37
WASHER 5702-75-60	AN3		\$	0.11
WASHER 5702-95-30	AN4		\$	0.12
WASHER LOCK 5/16	AN5		\$	0.07
WASHER LOCK 3/8	AN6		\$	0.11
WASHER STD-619	1/2		\$	6.46
WASHER TAB LOCK 1/4	AN4		\$	0.38
WASHER THRUST 1/2	AN8		\$	1.17
A3236-012-935	#6	flush	\$	0.10
A3135-017-24A	#8	flush	\$	0.09
A3235-028-24A	AN3	flush	\$	0.09
A3475-020-24A	AN4	flush	\$	0.13
AN935C416	AN4	Lockwasher SS	\$	0.07
AN935C516	AN5	Lockwasher SS	\$	0.13
AN936A416	AN4	Internal Lock	\$	0.03
MS27183-17	AN8	1.25 OD	\$	0.20
HW LOCKPLATE ALTERNTR		Double Tab	\$	1.63

HARDWARE



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## Screws

AN507, Etc.

CounterSunk, Round Head, Steel and Stainless (SS).

Part Number	Type	Dia	Length	Price
AN507-6R6	C/Sunk,non-st ruct	6-32	3/8	\$ 0.05
AN507-6R8	C/Sunk,non-st ruct	6-32	1/2	\$ 0.05
AN507C632R8	C/Sunk,non-st ruct, SS	6-32	1/2	\$ 0.05
AN507-6R10	C/Sunk,non-st ruct	6-32	5/8	\$ 0.04
AN507C832R8	C/Sunk,non-st ruct, SS	8-32	1/2	\$ 0.08
AN509-8R8	C/Sunk, structural	8-32	1/2	\$ 0.07
AN509-8R10	C/Sunk, structural	8-32	5/8	\$ 0.08
AN509-8R12	C/Sunk, structural	8-32	3/4	\$ 0.13
AN509-8R14	C/Sunk, structural	8-32	7/8	\$ 0.10
AN509-10R9	C/Sunk, structural	AN3	9/16	\$ 0.08
AN509-10R10	C/Sunk, structural	AN3	5/8	\$ 0.10
AN509-10R11	C/Sunk, structural	AN3	11/16	\$ 0.10
AN509-10R12	C/Sunk, structural	AN3	3/4	\$ 0.09
AN509-10R14	C/Sunk, structural	AN3	7/8	\$ 0.15
AN509-10R16	C/Sunk, structural	AN3	1"	\$ 0.12
AN509-10R18	C/Sunk, structural	AN3	1 1/8	\$ 0.19
MS24694-S67	C/Sunk,structural	AN3	1 9/16	\$ 0.26
AN509-416R12	C/Sunk,structural	AN3	3/4	\$ 0.18
AN515-6R8	Pan Head	6-32	1/2	\$ 0.04
AN515-8R8	Pan Head	8-32	1/2	\$ 0.07
AN525-8R8	Was her Head	8-32	1/2	\$ 0.14
AN525-10R7	Was her Head	AN3	7/16	\$ 0.20
AN525-10R10	Was her Head	AN3	5/8	\$ 0.13
AN525-10R12	Was her Head	AN3	3/4	\$ 0.13
AN525-10R18	Was her Head	AN3	1 1/8	\$ 0.25
AN525-416R14	Was her Head	AN4	7/8	\$ 0.65
AN526-632R8	Truss Head	6-32	1/2	\$ 0.04
AN526C632R8	Truss Head,SS	6-32	1/2	\$ 0.06
AN526C832R8	Truss Head,SS	8-32	1/2	\$ 0.06
AN526-8R12	Truss Head	8-32	3/4	\$ 0.08
SCREW 3/8-24X3/4	Socket Head, Cap	3/8-24	3/4	\$ 0.18
SCREW 5/16-20X1 1/2	Socket Head, Cap	5/16-20	1 1/2	\$ 1.59
SCREW 5/16-24X3/4	Socket Head, Cap	5/16-20	3/4	\$ 0.14
AN503-10-30	Fillister Hd, Drilled	AN3		\$ 0.50
MS24693-S 274	C/Sunk,non-st ruct	AN3	3/4	\$ 0.09
MS24693-S 50	C/Sunk,non-st ruct	8-32	1/2	\$ 0.04
MS24693-S 95	C/Sunk,non-st ruct	AN4	5/8	\$ 0.10
MS35214-27	Pan Head Brass	6-32	1/2	\$ 0.13
MS35214-29	Pan Head Brass	6-32	3/4	\$ 0.13
MS35214-31	Pan Head Brass	6-32	1"	\$ 0.21
MS35206-215	Pan Head	4-40	3/8	\$ 0.06
MS35206-248	Pan Head	8-32	7/8	\$ 0.10
MS35206-250	Pan Head	8-32	1 1/4	\$ 0.10
MS35206-265	Pan Head	AN3	3/4	\$ 0.11
MS35206-281	Pan Head	AN4	3/4	\$ 0.12

## Rivets

Driven rivets, both 100 degree Countersunk (AN426), Universal head (AN470) and Blind (pop) rivets and the Oops rivets.

### Flush Rivets

#### Counter Sunk/Dimpled Rivets

100 degree counter sunk rivets. Number after the '-' indicates length in '16ths of an inch'. Price indicated is price per pound. Rivets may be ordered in 0.01 pound increments.

Part Number	Dia	Qty/0.01lb	Price/lb	Part Number	Dia	Qty/0.01lb	Price/lb
AN426AD4-5	1/8	23	\$ 20.71	AN426AD4-5	1/8	23	\$ 20.71
AN426AD4-6	1/8	19	\$ 19.64	AN426AD4-6	1/8	19	\$ 19.64
AN426AD4-7	1/8	17	\$ 18.58	AN426AD4-7	1/8	17	\$ 18.58
AN426AD4-8	1/8	15	\$ 18.36	AN426AD4-8	1/8	15	\$ 18.36
AN426AD4-9	1/8	13	\$ 19.82	AN426AD4-9	1/8	13	\$ 19.82
AN426AD4-11	1/8	11	\$ 18.04	AN426AD4-11	1/8	11	\$ 18.04
AN426AD4-12	1/8	10	\$ 15.38	AN426AD4-12	1/8	10	\$ 15.38
AN426AD4-14	1/8	8	\$ 25.33	AN426AD4-14	1/8	8	\$ 25.33
AN426AD4-22	1/8	5	\$ 25.16	AN426AD4-22	1/8	5	\$ 25.16

### Universal Head Rivets

#### Round Head Rivets

Universal head rivets. Number after the '-' indicates length in '16ths of an inch'. Price indicated is price per pound. Rivets may be ordered in 0.01 pound increments.

Part Number	Dia	Qty/0.01lb	Price/lb	Part Number	Dia	Qty/0.01lb	Price/lb
AN470AD3-4	3/32	39	\$ 28.71	AN470AD6-8	3/16	4	\$ 17.78
AN470AD3-5	3/32	32	\$ 23.73	AN470AD6-9	3/16	4	\$ 14.22
AN470AD3-7	3/32	25	\$ 25.60	AN470AD6-10	3/16	4	\$ 13.36
AN470AD4-4	1/8	18	\$ 16.11	AN470AD6-12	3/16	3	\$ 13.36
AN470AD4-5	1/8	16	\$ 15.27	AN470AD6-14	3/16	3	\$ 13.22
AN470AD4-6	1/8	14	\$ 15.00	AN470AD6-15	3/16	3	\$ 13.07
AN470AD4-7	1/8	13	\$ 14.76	AN470AD6-16	3/16	2	\$ 13.07
AN470AD4-8	1/8	12	\$ 17.04	AN470AD6-18	3/16	2	\$ 15.51
AN470AD4-9	1/8	11	\$ 19.27	AN470AD6-20	3/16	2	\$ 13.07
AN470AD4-10	1/8	10	\$ 19.00	AN470AD6-22	3/16	2	\$ 18.89
AN470AD4-11	1/8	9	\$ 18.49	AN470AD6-24	3/16	2	\$ 14.58
AN470AD4-12	1/8	8	\$ 18.49	AN470AD6-25	3/16	1	\$ 13.78
AN470AD4-14	1/8	7	\$ 26.00	AN470AD6-27	3/16	1	\$ 18.89
AN470AD4-16	1/8	6	\$ 22.33	AN470AD6-28	3/16	1	\$ 21.40
AN470AD6-7	3/16	5	\$ 13.56				

### Oops Rivets

#### Small Head Rivets

These rivets are used to replace drilled out rivets where the hole may have been oversized. Typically the head on these rivets is smaller than the normal AN426 rivet, so an oversized AD3 hole can be opened to an AD4 size and the head will be similar to the original rivet.

Part Number	Dia	Qty/0.01lb	Price/lb
NAS1097AD4-3.5	1/8	31	\$ 17.20
NAS1097AD4-4	1/8	26	\$ 17.00
NAS1097AD4-5	1/8	23	\$ 15.00
NAS1097AD4-6	1/8	20	\$ 17.00

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## Blind Rivets

Part Number	Dia	Grip	Head	Shank	Price
RIVET AACQ-4-3	1/8	3/16	Flush Alum	Alum	\$ 0.20
RIVET AACQ-4-4	1/8	1/4	Flush Alum	Alum	\$ 0.14
RIVET AACQ-4-6	1/8	3/8	Flush Alum	Alum	\$ 0.23
RIVET AD-41-ABS	1/8	1/16	Round Alum	Alum	\$ 0.04
RIVET AD-41H	1/8	1/16	Round Closed End	Carbon Steel	\$ 0.05
RIVET AD-42-H	1/8	1/8	Round Closed End	Carbon Steel	\$ 0.05
RIVET AD-62-BS	3/16	1/8	Round Alum	Carbon Steel	\$ 0.08
RIVET AK-42H	1/8	1/8	Flush Closed End	Carbon Steel	\$ 0.05
RIVET CCR-264SS-3-2	3/32	1/8	Flush	Steel	\$ 0.19
RIVET CR3212-4-2	1/8	1/8	Cherry Flush	Steel	\$ 0.65
RIVET CR3212-4-3	1/8	3/16	Cherry Flush	Steel	\$ 0.58
RIVET CR3212-4-6	1/8	3/8	Cherry Flush	Steel	\$ 1.10
RIVET CR3213-4-2	1/8	1/8	Cherry Round	Steel	\$ 0.76
RIVET CR3213-4-3	1/8	3/16	Cherry Round	Steel	\$ 0.76
RIVET CS4-4	1/8	1/4	Flush Alum	Carbon Steel	\$ 0.06
RIVET LP4-3	1/8	3/16	Round Alum	Carbon Steel	\$ 0.05
RIVET MK-319-BS	7/64	1/8	Flush Monel	Carbon Steel	\$ 0.15
RIVET MSP-42	1/8	1/8	Round Monel	Carbon Steel	\$ 0.14
RIVET SD-42-BSLF	1/8	1/8	Large Steel	Carbon Steel	\$ 0.05
N RIVET BSPQ-5-4	5/32	1/4	Round Monel	Carbon Steel	\$ 0.25

## Materials

You can find aluminum sheet, angle, and hinge here.

## Aluminum Sheet

2024-T3 Sheet Aluminum by the Square Foot

Has a plastic coating on both surfaces. Cut to your dimension. A \$5.00 cutting charge will apply. Try elsewhere in the webstore to find a standard size sheet under AS3-XXXxY"xZ" as the least expensive alternative. Priced per square foot.

Part Number	Dia	Price	Part Number	Dia	Price
AS3-016 VV CUT	0.016"	\$ 2.90	AS3-040 VV CUT	0.040"	\$ 4.44
AS3-020 VV CUT	0.020"	\$ 3.67	AS3-063 VV CUT	0.063"	\$ 6.62
AS3-025 VV CUT	0.025"	\$ 3.14	AS3-125 VV CUT	0.125"	\$ 13.87
AS3-032 VV CUT	0.032"	\$ 3.67			

## Aluminum Angle

6061-T6 Angle

Aluminum angle for those special projects in the cockpit. Dimensions in inches unless noted otherwise.

Part Number	Thickness	Description	Length	Price
AA6-063X3/4X3/4X6'	0.063	3/4x3/4	6'	\$ 6.05
AA6-125X1 1/2X2X 10	0.125	1.5x2	10"	\$ 3.05
AA6-125X1 1/2X2X 18	0.125	1.5x2	18"	\$ 4.50
AA6-125X1 1/2X2X 30	0.125	1.5x2	30"	\$ 6.75
AA6-125X1X1X20	0.125	1x1	20"	\$ 3.00
AA6-125X1X1X6'	0.125	1x1	6'	\$ 8.25
AA6-125X3/4X3/4X17	0.125	3/4x3/4	17"	\$ 3.30
AA6-125X3/4X3/4X24	0.125	3/4x3/4	24"	\$ 4.00
AA6-125X3/4X3/4X6'	0.125	3/4x3/4	6'	\$ 8.80
AA6-187X2X2 1/2X 12	0.187	2x2.5	12"	\$ 5.35
AA6-187X2X2 1/2X 18	0.187	2x2.5	18"	\$ 7.50
AA6-187X2X2 1/2X 3'	0.187	2x2.5	3'	\$ 13.80

## Aircraft Grade Hinge and Pins

An257, MS20001-4 Hinge and Piano Hinge

Hinge for various projects.

- The AN257 hinge comes in varying widths and uses the SSP-090 hinge pin.
- The HINGE PIANO typically uses the SSP-120 pin. This hinge also uses the undersize SSP-090 pin for the radius around the top of the firewall/cowling interface.
- The latest addition is the 063 hinge and is used on the fiberglass gear leg fairings.
- The MS20001-4 hinge is an extruded hinge. This is typically used in high vibration areas where loop fatigue is prevalent.
- The SSP is stainless steel hinge pin and comes in three diameters: 0.063", 0.090" and 0.120".

Part Number	Width	Length	Price
AN257-P2X18	1 1/16	18"	\$ 3.00
AN257-P2X6'	1 1/16	6'	\$ 8.58
AN257-P3X24	1 1/4	24"	\$ 3.00
AN257-P3X3'	1 1/4	3'	\$ 4.20
AN257-P3X6'	1 1/4	6'	\$ 7.75
AN257-P4X24	1 1/2	24"	\$ 3.58
AN257-P4X6'	1 1/2	6'	\$ 9.07
AN257-P5X24	2"	24"	\$ 5.50
AN257-P5X6'	2"	6'	\$ 15.12
MS20001-4X10 W/17"PIN	1 1/2	10"	\$ 7.75
MS20001-4X6	1 1/2	6"	\$ 4.67

Part Number	Width	Length	Price
HINGE PIANO 063X3'	1 1/4	3'	\$ 5.65
HINGE PIANO 063X6'	1 1/4	6'	\$ 7.70
HINGE PIANO 1/8X 36	1 1/2	36"	\$ 7.20
HINGE PIANO 1/8X 50	1 1/2	50"	\$ 10.45
HINGE PIANO 1/8X 6'	1 1/2	6'	\$ 13.70
SSP-063X3'	0.063	3'	\$ 2.21
SSP-063X6'	0.063	6'	\$ 2.98
SSP-090X3'	0.090	3'	\$ 1.98
SSP-090X6'	0.090	6'	\$ 3.18
SSP-120X3'	0.120	3'	\$ 2.46
SSP-120X6'	0.120	6'	\$ 3.52

## Hoses and Fittings

Fuel, oil and brake line materials and the fittings for these are located in this section.

### Aeroquip Hose and Fittings

Make Your Own Fuel and Oil Hoses

Van's is a supplier of Aeroquip hose and fittings. These components allow you to custom make quality hoses for your fuel system [3/8" hose]; your oil system [1/2" hose]; and pressure transducers and flex brake lines [1/4"]. These components are specified from -65F to +300F and operating pressures up to 1000psi. Instruction for fabrication of hoses included. Additional tool and special mandrels are not required other than normal wrenches.

To fabricate your hose, just order one fitting of the appropriate size for each end. The right angle fitting has about a 1" radius. Then order the desired length of hose. The hose can be cut to final size with a hacksaw or an abrasive disk like the type provided to cut the canopy. From there, just follow the instructions provided. The firesleeve only needs to be used on the 3/8" fuel lines. These hoses retain their flexibility over a long period. The liner is unaffected by alcohols, coolants and solvents commonly used in aerospace systems. Compatible with nearly all petroleum based oils, aviation gas, JP fuels, Skydrol, and synthetic based fluids. A stainless steel wire braid protects the hose from abrasion.

Part Number	Description	Size	Price
F 816-4	Straight Fitting	1/4	\$ 13.00
F 816-6D	Straight Fitting	3/8	\$ 13.20
F 816-8D	Straight Fitting	1/2	\$ 15.00
F 8891-4	Right Angle Fitting	1/4	\$ 30.73
F 8891-6D	Right Angle Fitting	3/8	\$ 41.00

Part #	Description	Size	Price
F 8891-8D	Right Angle Fitting	1/2	\$ 45.00
F AE102-11	Firesleeve	For 3/8 & 1/2	\$ 6.70
F AE701-4	Hose	1/4	\$ 8.36
F AE701-6	Hose	3/8	\$ 9.50
F AE701-8	Hose	1/2	\$ 11.00

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Fluid Fittings  
AN8XX Fittings

Number after '-' indicates diameter in 16ths of an inch. 'D' indicates aluminum, no suffix indicates steel.

Part #	Description	Desc	Price
ANB16-2	Nipple,tube/pipe	1/8/steel	\$ 5.50
ANB16-2D	Nipple,tube/pipe	1/8 alum	\$ 2.24
ANB16-4	Nipple,tube/pipe	1/4 steel	\$ 2.30
ANB16-4D	Nipple,tube/pipe	1/4 alum	\$ 1.80
ANB16-6D	Nipple,tube/pipe	3/8 alum	\$ 1.60
ANB16-8D	Nipple,tube/pipe	1/2 alum	\$ 3.00
ANB18-10D	Coupling nut	5/8	\$ 4.08
ANB18-2D	Coupling nut	1/8	\$ 0.60
ANB18-4D	Coupling nut	1/4	\$ 0.44
ANB18-6D	Coupling nut	3/8	\$ 0.55
ANB19-2D	Coupling sleeve	1/8	\$ 0.43
ANB19-4D	Coupling sleeve	1/4	\$ 0.35
ANB19-6D	Coupling sleeve	3/8	\$ 0.40
ANB22-4D	Elbow,tube/pipe	1/4	\$ 3.60
ANB22-6	Elbow,tube/pipe	3/8 steel	\$ 7.70
ANB22-6D	Elbow,tube/pipe	3/8 alum	\$ 4.00
ANB22-8D	Elbow,tube/pipe	1/2	\$ 6.08
ANB23-4	45 deg elbow,tube/pipe	1/4 steel	\$ 7.00
ANB23-4D	45 deg elbow,tube/pipe	1/4	\$ 4.00
ANB23-6D	45 deg elbow,tube/pipe	3/8	\$ 4.05
ANB23-8D	45 deg elbow,tube/pipe	1/2	\$ 6.35
ANB24-2D	Tee, tube/tube/tube	1/8	\$ 18.51
ANB24-4D	Tee, tube/tube/tube	1/4	\$ 4.46

Part #	Description	Desc	Price
ANB32-2D	Union bulkhead,tube/tube	1/8	\$ 7.75
ANB32-4D	Union bulkhead,tube/tube	1/4	\$ 2.70
ANB33-2D	Elbow bulkhead,tube/tube	1/8	\$ 9.95
ANB33-4D	Elbow bulkhead,tube/tube	1/4	\$ 3.82
ANB33-6D	Elbow bulkhead,tube/tube	3/8	\$ 5.05
ANB37-4D	45 deg elbow bulkhead, tube/tube	1/4	\$ 4.30
ANB10-1D	Female coupling,pipe/pipe	1/8	\$ 1.70
ANB12-2D	Bushing	3/8 to 1/4	\$ 2.75
ANB13-2	Plug	1/4	\$ 2.00
ANB19-1D	Tube Reducer	1/4 to 3/16	\$ 4.50
ANB24-2D	Bulkhead nut	1/8	\$ 0.55
ANB24-4D	Bulkhead nut	1/4	\$ 0.39
ANB24-6D	Bulkhead nut	3/8	\$ 0.59
ANB29-6D	Female cap	3/8 tube	\$ 1.50
AN SPACER, 4D	Washer	1/4 fitting	\$ 0.38
AN SPACER, 6D	Washer	3/8 fitting	\$ 0.38

Aluminum Tube & Copper Too

3003 Soft Aluminum Tube and 6061-T6 Rigid Tube

Soft tube for brake lines and fuel lines.

Part Number	Desc	Dia	Length	Price
AT0-032X1/4X12'	Soft AL	1/4	12'	\$ 6.84
AT0-032X1/4X14'	Soft AL	1/4	14'	\$ 7.87
AT0-032X1/4X16'	Soft AL	1/4	16'	\$ 8.89
AT0-032X1/4X19'	Soft AL	1/4	19'	\$ 10.43
AT0-032X1/4X8'	Soft AL	1/4	8'	\$ 4.80
AT0-035X3/8X18	Soft AL	3/8	18"	\$ 1.59
AT0-035X3/8X24	Soft AL	3/8	24"	\$ 1.93
AT0-035X3/8X6'	Soft AL	3/8	6'	\$ 4.60
AT0-035X3/8X8'	Soft AL	3/8	8'	\$ 5.94
AT6-058X3/8X4	Rigid AL	3/8	4"	\$ 1.18

Part Number	Desc	Dia	Length	Price
AT6-065X3/8X36	Rigid AL	3/8	36"	\$ 4.38
AT6-065X3/8X6'	Rigid AL	3/8	6'	\$ 8.75
AT6-058X5/16X4	Rigid AL	5/16	4"	\$ 1.66
AT6-058X5/16X9	Rigid AL	5/16	9"	\$ 2.32
AT6-058X5/16X18	Rigid AL	5/16	18"	\$ 3.50
AT6-058X3/4X4'	Rigid AL	3/4	4'	\$ 6.56
AT6-058X3/4X6'	Rigid AL	3/4	6'	\$ 9.52
AT6-035X1 1/8X6'	Rigid AL	1 1/8	6'	\$ 10.52
AT6-035X1 1/2X83	Rigid AL	1 1/2	83"	\$ 20.86
CT0-125OD	Soft Copper	1/8	As Ordered	\$ 0.50



Misc Fittings and Plastic Tube  
Metal, Plastic and Rubber Hose Fittings

Part Number	Description	Description	Price
<b>F 1/4 PIPE PLUG</b>	Steel Plug	1/4	\$ 0.48
<b>F 1/8 PIPE PLUG</b>	Steel Plug	1/8	\$ 0.40
<b>F 1/8 PIPE PLUG BRASS</b>	Brass Plug	1/8	\$ 0.64
<b>F63-PT3-25</b>	Brass Insert		\$ 0.24
<b>F69-F04X02</b>	Brass Elbow	1/4tube- 1/8pipe	\$ 1.82
<b>FF60C</b>	Brass Ferrule	1/8	\$ 0.12
<b>F FERRULE 1/4 "</b>	Brass Ferrule	1/4	\$ 0.20
<b>F269-N-04X02</b>	Nylon Male Elbow	1/4tube- 1/8pipe	\$ 1.34
<b>F271-N-04X02</b>	Nylon Male Tee	1/4tube- 1/8pipe	\$ 2.20

Part Number	Description	Description	Price
<b>F272-N- 04X02</b>	Nylon Male Tee	1/4tube- 1/8pipe- 1/4tube	\$ 2.65
<b>F259-N-04</b>	Nylon Insert		\$ 0.52
<b>F3/16ODPLASTIC TEE</b>	Plastic Tee		\$ 0.89
<b>PT 1/2ODX2 CLEAR</b>	Plastic Tube	1/2x2"	\$ 0.10
<b>PT 1/4ODTUBEX10'</b>	Plastic Tube	1/4x10'	\$ 1.93
<b>PT 1/8 CLR X 5'</b>	Plastic Tube	1/8 IDx5'	\$ 1.70
<b>PT-035X1/4X4'</b>	Plastic Tube	1/4 ODx4'	\$ 4.30
<b>PT-035X1/4X9'</b>	Plastic Tube	1/4 ODx9'	\$ 5.25
<b>PT-062X1/4X9'</b>	Hi-Pressure Tube	1/4 ODx9'	\$ 7.10
<b>PT-062X1/4X15'</b>	Hi-Pressure Tube	1/4 ODx15'	\$ 16.00

Plastic Bushings, Grommets, Cushioned Clamps, Cotter Pins, and Misc Items  
If you did not find it elsewhere, you should find it here!

Plastic Bushings & Rubber Grommets  
Plastic SB Bushings and Rubber Grommets

Part Number	Hole Dia	ID	Price
<b>BUSHING SB375-3</b>	3/8	3/16	\$ 0.10
<b>BUSHING SB375-4</b>	3/8	1/4	\$ 0.08
<b>BUSHING SB437-4</b>	7/16	1/4	\$ 0.08
<b>BUSHING SB500-6</b>	1/2	3/8	\$ 0.08
<b>BUSHING SB625-7</b>	5/8	7/16	\$ 0.08

Part Number	Hole Dia	ID	Price
<b>BUSHING SB625-8</b>	5/8	1/2	\$ 0.08
<b>BUSHING SB750-10</b>	3/4	5/8	\$ 0.12
<b>AN931-4-12</b>	3/4	1/4	\$ 0.44
<b>AN931-6-16</b>	1"	3/8	\$ 0.65

Cushioned Loop Type Clamps  
Secure Tubes and Wire Bundles

Used to secure tube and wires. Attach items to the engine mount with these clamps.

Part Number	Hole Dia	ID	Price
<b>MS21919DG2</b>	1/8	AN3	\$ 0.39
<b>MS21919WDG3</b>	3/16	AN3	\$ 0.42
<b>MS21919DG4</b>	1/4	AN3	\$ 0.37
<b>MS21919DG5</b>	5/16	AN3	\$ 0.38
<b>MS21919WDG6</b>	3/8	AN3	\$ 0.44
<b>MS21919DG7</b>	7/16	AN3	\$ 0.60
<b>MS21919DG8</b>	1/2	AN3	\$ 0.60
<b>MS21919DG9</b>	9/16	AN3	\$ 0.73

Part Number	Hole Dia	ID	Price
<b>MS21919DG10</b>	5/8	AN3	\$ 0.55
<b>MS21919DG11</b>	11/16	AN3	\$ 0.70
<b>MS21919DG12</b>	3/4	AN3	\$ 0.77
<b>MS21919DG13</b>	13/16	AN3	\$ 0.85
<b>MS21919DG14</b>	7/8	AN3	\$ 0.60
<b>MS21919DG15</b>	15/16	AN3	\$ 0.87
<b>MS21919DG16</b>	1"	AN3	\$ 0.59

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Cotter Pins

Why not order a selection so you will always have the **RIGHT ONE**.

Part Number	Desc	Desc	Price
MS24665-302	AN6,7,8	3/32x7/8 SS	\$ 0.04
MS24665-304	AN6,7,8	3/32x1 1/8 SS	\$ 0.05
MS24665-351		1/8x3/4	\$ 0.02
MS24665-359	NOSE	1/8x1 3/4	\$ 0.05
MS24665-360	MAIN	1/8x2"	\$ 0.03
MS24665-370		11/64x1" SS	\$ 0.06
MS24665-444		11/64x2" SS	\$ 0.12

Part Number	Desc	Desc	Price
MS24665-302	AN6,7,8	3/32x7/8 SS	\$ 0.04
MS24665-304	AN6,7,8	3/32x1 1/8 SS	\$ 0.05
MS24665-351		1/8x3/4	\$ 0.02
MS24665-359	NOSE	1/8x1 3/4	\$ 0.05
MS24665-360	MAIN	1/8x2"	\$ 0.03
MS24665-370		11/64x1" SS	\$ 0.06
MS24665-444		11/64x2" SS	\$ 0.12

Misc

Part Number	Description	Desc	Price
HW 212-12	Camloc Receptacle		\$ 1.86
	Camloc 1/4 Turn		
HW 2600-3W	Fastner		\$ 4.43
HW 2600-LW	Camloc Washer		\$ 0.14
	Brake 1.228" 'O'		
MS28775-218	Ring		\$ 1.00
MS35769-11	VA147 Gasket 5/8"		\$ 0.80
PLASTIC TIE WRAP 4"			\$ 0.04
"P" STRIP X 50	Self adh rubber strip	50"	\$ 3.27

Part Number	Description	Desc	Price
<b>RUBBER</b>			
CHANNEL X 12'	Wing Root Channel	12'	\$ 9.57
<b>RUBBER</b>			
CHANNEL X 4'	Hor Stab Channel	4'	\$ 3.36
<b>RUBBER CHNL</b>			
S88D20X60	Canopy Seal	5'	\$ 11.00
VA-103-1	Blue Knob		\$ 2.49
VA-104-1	Yellow Knob		\$ 2.49
VA-105C	Spring Clip		\$ 1.50
VA-106	Axle Nut		\$ 14.30



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<p style="text-align: center;">Customer Information</p> <p>Name: _____</p> <p>Builder Number: _____</p> <p>Day Phone: _____</p> <p>Fax: _____</p> <p>E-mail: _____</p>	<p style="text-align: center;">Payment Method</p> <p><input type="checkbox"/> Check Enclosed</p> <p><input type="checkbox"/> COD</p> <p><input type="checkbox"/> Use Credit on Account</p> <p><input type="checkbox"/> VISA or <input type="checkbox"/> MasterCard (write numbers/signature below)</p> <p>Account# _____ Exp. ____ / ____</p> <p>Signature _____</p>
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<p style="text-align: center;">Ship To Address</p> <p>Address 1: _____</p> <p>Address 2: _____</p> <p>City: _____</p> <p>State/Province: _____</p> <p>Zip/Postal Code: _____</p> <p>Country: _____</p>	<p style="text-align: center;">Preferred Shipping</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center; vertical-align: top;"> <p>UPS <small>United Parcel Service</small></p> <p><input type="checkbox"/> Ground</p> <p><input type="checkbox"/> Next Day</p> <p><input type="checkbox"/> 2-Day</p> <p><input type="checkbox"/> 3-Day</p> </td> <td style="width: 25%; text-align: center; vertical-align: top;"> <p>USPS <small>United States Postal Service</small></p> <p style="background-color: black; color: white; text-align: center; font-weight: bold;">DOMESTIC</p> <p><input type="checkbox"/> Reg. Mail</p> <p><input type="checkbox"/> Priority Mail</p> <p style="background-color: black; color: white; text-align: center; font-weight: bold;">INTERNATIONAL</p> <p><input type="checkbox"/> Air Mail</p> <p><input type="checkbox"/> Express Mail</p> </td> <td style="width: 25%; text-align: center; vertical-align: top;"> <p>FEDERAL EXPRESS</p> <p><input type="checkbox"/> Next Day</p> <p><input type="checkbox"/> 2-Day</p> <p><input type="checkbox"/> 3-Day</p> </td> <td style="width: 25%; text-align: center; vertical-align: top;"> <p>AIR FREIGHT <small>International ONLY</small></p> <p><input type="checkbox"/> Air Freight</p> </td> </tr> </table>	<p>UPS <small>United Parcel Service</small></p> <p><input type="checkbox"/> Ground</p> <p><input type="checkbox"/> Next Day</p> <p><input type="checkbox"/> 2-Day</p> <p><input type="checkbox"/> 3-Day</p>	<p>USPS <small>United States Postal Service</small></p> <p style="background-color: black; color: white; text-align: center; font-weight: bold;">DOMESTIC</p> <p><input type="checkbox"/> Reg. Mail</p> <p><input type="checkbox"/> Priority Mail</p> <p style="background-color: black; color: white; text-align: center; font-weight: bold;">INTERNATIONAL</p> <p><input type="checkbox"/> Air Mail</p> <p><input type="checkbox"/> Express Mail</p>	<p>FEDERAL EXPRESS</p> <p><input type="checkbox"/> Next Day</p> <p><input type="checkbox"/> 2-Day</p> <p><input type="checkbox"/> 3-Day</p>	<p>AIR FREIGHT <small>International ONLY</small></p> <p><input type="checkbox"/> Air Freight</p>
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Part Number	Description	Quantity	Unit Price	Total Price

Notes: _____	Total Order	
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 <p style="text-align: center; font-weight: bold; margin-top: 10px;">Photocopy This Form To Mail or Fax... or Order On-Line at <a href="http://www.vansaircraft.com">www.vansaircraft.com</a></p>	<p>Postal Mail Address: 14401 NE Keil Rd. Aurora, OR 97002 USA</p> <p>Phone/Fax: 503.678.6545 phone 503.678.6560 fax</p>	<p>Web Site/E-mail: <a href="http://www.vansaircraft.com">www.vansaircraft.com</a> <a href="mailto:order@vansaircraft.com">order@vansaircraft.com</a></p> <p>Hours: Phone... 8:00 a.m. - 4:30 p.m. Pacific Fax...24 hours Internet...24 hours</p>
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