

**NOTE: PRICES ARE NOT VALID, USE CATALOG FOR REFERENCE ONLY**



# 2015-2016

## Accessories Catalog

Shop and Order On-Line with Van's Web Store at [www.vansaircraft.com](http://www.vansaircraft.com)

*TOTAL PERFORMANCE*  
**VAN'S AIRCRAFT**



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## Ordering Information and Policies

**Here are a few definitions and procedures 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 at <http://www.vansaircraft.com>:** 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. Please ensure that your order is **complete** before clicking on the 'submit' button. Van's is not able to 'combine' or 'add' to web orders, once an order has been submitted. Web Orders are processed Monday through Friday at 1 p.m. Pacific Time.

**Mail Orders:** Photocopy and use the order form included at the back of this catalog.

**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, MasterCard or Discover Card are 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 only accept VISA, MasterCard or Discover Card.** Van's Aircraft does not keep credit card numbers on file. In order to process a credit card order, you must provide a complete credit card number along with the expiration date.

**Shipments (within USA):** We ship UPS or FedEx Ground unless you specify otherwise. UPS/FedEx **Overnight**, UPS/FedEx **2-Day**, UPS/FedEx **3-Day** are available at additional cost. UPS/FedEx *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, FedEx 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. It should also be in its original packaging. No opened software, construction documents, books or DVDs may be returned. Custom manufactured components cannot be returned. Returns on **Avionics, Batteries, Electronics, Lighting components, 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 Shipments:** Damaged, incorrect, defective, or missing items: Van's Aircraft is not responsible for shipping damages, but please contact our 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. Any shortages or incorrect parts must be reported immediately.

**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.

**Shipping Charges:** Prices listed in catalog do not include shipping charges. Shipping charges will be added to orders during processing. There is no shipping charge for Info Packs when shipped regular USPS.

**Crating Charges:** Oversized and odd shaped packages may be subject to a crating charge.

**Prices:** Prices are subject to change without notice.

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

#### Van's Aircraft, Inc.

<b>Postal Mail Address:</b>	<b>Phone/Fax:</b>	<b>Web Site/E-mail:</b>	<b>Hours:</b>
14401 Keil Road NE Aurora, OR 97002 USA	503.678.6545 phone 503.678.6560 fax	<a href="http://www.vansaircraft.com">www.vansaircraft.com</a> <a href="mailto:info@vansaircraft.com">info@vansaircraft.com</a> <a href="mailto:support@vansaircraft.com">support@vansaircraft.com</a>	Phone...8:00 am - 4:30 pm Pacific Fax...24 hours Internet...24 hours

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Van's Aircraft  
Ordering Options

## Lycoming Engines

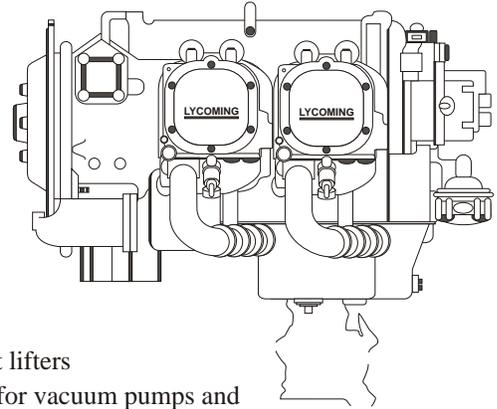
Firewall Forward Installation Kits, Stainless Exhaust Systems, Vibration Mounts and Engine Bolt Sets.

### Experimental Category Lycoming Engines

Factory New

An OEM agreement with Lycoming allows Van's Aircraft to sell to RV builder's factory new experimental engines at prices far below list. This agreement specifies that engines may be sold only to those who have purchased a complete RV kit. The engine must be installed in that aircraft. Only one engine may be sold per RV kit.

These engines are equipped with the lightweight starters, 149 tooth ring gears, dual magnetos, carburetors (or fuel injection systems) and engine driven fuel pumps. All of the engines listed below come with roller tappet lifters and camshafts as standard equipment. They have provisions (drive pads) for vacuum pumps and prop governors, but these, along with alternators and exhaust systems must be supplied and installed by the builder. The engines are built to the same standards as the certified Lycomings, but do not come with the certified airworthiness paperwork. Some countries may require this, so check local regulations before ordering. Van's can supply Certified engines if required, call or email for prices and delivery.



The X(I)O-320, X(I)O-360 (180 or 200hp) and XIO-540 engines are set up for constant-speed propellers as delivered (except for the XO-320 D2G which is a fixed pitch only engine). The X(I)O-320 and X(I)O-360 (180hp) engines may be converted for fixed pitch operation with the crankshaft plugs shown below. All engines from Van's stock are packaged with long term storage at extra cost. Engines with or without long term storage may be drop-shipped directly from Lycoming to builders. All international sales must have long term storage.

The XIO-360-M1B (180hp) and the XIO-360-A1B6 (200hp) use the forward horizontal induction oil sump and injector body permitting the use of Van's "horizontal induction" cowl that does NOT require an external scoop on the lower cowl, as seen on our RV-7A, 8A and RV-14A. ALL other engines have a vertical draft sump with fuel injection or carburetor that DOES require the external scoop on the lower cowl as seen our RV-9A and IO-540 powered RV-10.

The XIO-540-D4A5 can be supplied with either a dual or single pulley groove ring gear. The dual pulley is used if an AC compressor is installed.

**Lycoming Warranty:** Builder has 2 years from date of shipment to activate the warranty. Warranty is activated when the warranty card is mailed in. This should be done when the engine is first run. If Lycoming does not receive the warranty card within 2 years, Lycoming will automatically initiate activation. The warranty covers 100% for the first year after activation and is prorated for an additional year after that.

If an Experimental Lycoming engine and new propeller are ordered at the same time, Van's can offer a special "package" discount on the combination.

<b>EA XO-320-D2G RT</b>	Experimental O-320 160HP (Fixed Pitch Only)	\$ 26700.00
<b>EA XO-360-A1A RT</b>	Experimental O-360 180HP	\$ 27700.00
<b>EA XO-320-D1A RT</b>	Experimental O-320 160HP	\$ 27100.00
<b>EA XIO-320-D1A RT</b>	Experimental IO-320 160HP	\$ 27500.00
<b>EA XIO-360-M1B RT</b>	Experimental IO-360 180HP	\$ 29700.00
<b>EA XIO-360-A1B6 RT</b>	Experimental IO-360 200HP	\$ 40700.00
<b>EA XIO-540-D4A5 RT</b>	Experimental IO-540 260HP (RV-10 only)	\$ 47400.00
<b>EA XIO-540-D4A5 RT(Y)</b>	Experimental IO-540 260HP (RV-10 only)	\$ 47400.00
<b>EA 61510 CRANK PLUG</b>	Crank plug for converting from FP to CS prop operation	\$ 19.00
<b>EA STD 1211 PLUG</b>	Crank plug for end of crank on FP props	\$ 4.50

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## SlickSTART™

(I)O-540 Magneto Booster System

Lycoming recommend that new (I)O-540 engines sold by Van's use the SlickSTART™ magneto booster system, which integrates solid state electronics with conventional ignition hardware to deliver optimum spark energy for improved engine starting under all operating conditions. SlickSTART™ delivers over 400% more spark energy during start than conventional impulse-coupled or retard breaker systems. This added energy enables the magnetos to fire partially fouled spark plugs, ignite less than optimum fuel mixtures, improve hot engine restarts, and improve starting performance during extreme cold weather operations. SlickSTART™ is also approved for use with Slick impulse-coupled magnetos to enhance engine starting performance. Must Be Used With Slick 4200, 6200, 4300, 6300 Series Magnetos.



**EA SLICK START**

For New (I)O-540 ONLY

**\$ 810.00**

## Firewall Forward Installation Kits

Firewall Forward Kits for Lycoming Engines

### MAKE IT EASY

OK, you've finished all that metal stuff on the empennage, wings and fuselage. Now it's time to hang the engine! You've got a choice: you can research, choose, order and install each piece of the engine installation separately. There's the baffles, the cable brackets, the oil cooler, the cable controls, the exhaust system, the alternator, the solenoids, the air filter, the.....well, you get the idea.

Or, you can order Van's new Firewall Forward Kit.

The kit includes virtually every component necessary to install the engine and make it fly. Not only all the big items are included, but the small, often overlooked, bits and pieces are there, too. For instance, all the fuel and oil hoses are included, professionally built and checked. The breather tube, often an afterthought, is ready to install. Order Van's Firewall Forward Kit for either a fixed-pitch installation, or buy the constant-speed installation which includes the propeller governor. SEE THE EXAMPLE LIST BELOW.



*CAUTION: There are engine combinations that occur in the field that don't occur in the Firewall Forward Kits listed below. An example is a "fuel injected 180hp vertical induction engine". For the closest fit for this particular engine you would use a carbureted (O-360) version of our Firewall Forward Kits, with some minor changes.*

*None of the Firewall Forward Kits are designed for the CONICAL style engine mounts. If you have one of these engines be sure to inquire about the necessary changes.*

**PLEASE** if you have any doubt about your engine applicability **CALL FIRST**.

**RV-6/6A builders can also use the RV-7/7A kits with minimal modification.** Order part number "FF-6/6A ADDITIONS" which contains the additional parts and drawings needed to modify the RV-7/7A kits to work on RV-6/6A's.

RV-7/7A builders who want to install a vertical induction IO-320 using the RV-7/7A O-320 mount and cowl must modify the lower cowl by removing the scoop, and installing the FAB-6- SCOOPE- 360-1. The O-360 lower cowl will not work with the RV- 7/7A O-320 upper cowl that was designed for the O-320 engine on that airframe.

RV-9/9A owners who intend to use vertical draft fuel injected engines should be aware that the fuel injection throttle body will require a deeper scoop on the lower cowl half. This scoop is available either by replacement of the bottom scoop on the standard O-320 cowls with a FAB-6-SCOOPE-360-1 or at time of the finish kit order the substitution of the O-320 lower cowl half with: COWL, 6/6A BOT. O-360.

**The RV-10 Firewall Forward Kits** on following page can be ordered with or without a three lever throttle/prop/mixture quadrant part number "CT10-3". If you opt for the NON three lever quadrant, your engine control cables will be supplied as vernier style.

*Firewall Forward Installation Kit (Continued Next Page)*

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Ordering Options

*Firewall Forward Installation Kit (Continued From Previous Page)*

**From December 2007, FWF kits DO NOT contain the wiring harness.**

**EXAMPLE KIT FOR AN RV-7A, O-360, WITH A CONSTANT-SPEED PROPELLER:**

- 1 VA-138 FUEL SUPPLY HOSE 14.0"
- 1 VA-139 FUEL SUPPLY HOSE 16.5"
- 1 CT BLUE VPROP 48 7(ALL)/9(ALL)
- 1 CT BLK THROTTLE 44 6(ALL)/7(360)/9(320)
- 1 CT RED VMIXTURE 45 7(360)/9(320)
- 1 FAB-360/540 FLTRD A/BOX-360 Fi320
- 1 BAF-360 COWL BAFFLE KIT 6/7/8
- 1 VA-149-360-PC KIT THROTTLE/MIXTURE BRACKET
- 1 VA-153-PC McCauley or MT governor cable bracket
- 1 PROP GOV MT P-860-4 (1)O-320/360 LYCOMING
- 1 AT0-028X3/16X6 ALUMINUM TUBE SOFT
- 1 AT6-058X5/16X15 7/8 ALUMINUM TUBE HARD
- 1 SS304-26GAX1/2X9 STAINLESS CLAMP MATERIAL
- 1 FF 3/4 FIREWALL PL SS FIREWALL PLUG
- 1 ES PC680 INSTALL KIT BATTERY MOUNT 7/9
- 1 AS3-063X1X12 ALUMINUM STRIP
- 1 EA LV-1 HEAT SHIELD EXHAUST HEAT SHIELD
- 2 CT A-740 BLACK PUSH PULL CABLE BLACK
- 1 DUCT CBT-5/8 COOLING BLAST TUBE
- 1 EA CV HOSE 9816 BREATHER HOSE 4 CYL
- 1 EA DYNA BOLT BOLT SET 4 CYL DYNAFOCAL
- 4 EA DYNA VI-STD VIB.ISO. ALL EXCEPT-10
- 1 EA EA EXH/MUFF 320/360-1 EXHAUST SYSTEM
- 1 EA OIL COOLER II O-320/360 OIL COOLER
- 1 ES 24021 STARTER SOLENOID RELAY
- 1 ES 24115 MASTER SOLENOID RELAY
- 1 ES ALTERNATOR DELUXE 60A KIT W/OV PROTECT
- 1 FF-705 OIL BREATHER TUBE
- 1 FF-709 OIL COOLER DOUBLER
- 1 VA-161 GASCOLATOR DOUBLER
- 1 IE VMP INSTALL KIT MANIFOLD PRESSURE FITTINGS
- 1 GAS-5 GASCOLATOR
- 1 PT-035X1/4X12 FUEL OVERFLOW TUBE
- 1 VA-102 FUEL PRES. HOSE 15.5
- 1 VA-168 FIREWALL SENDER MOUNT
- 1 VA-133 OIL PRESS. HOSE 27.25
- 1 VA-134 OIL COOLER HOSE 19.0
- 1 VA-135 OIL COOLER HOSE 16.5
- 1 VENT DL-03 2" ALUMINUM DUCT FLANGE
- 1 VENT SCAT 2X6' RED SCAT TUBE 2" X 6'
- 1 VENT TG-10 CABIN HEAT SELECTOR
- 1 DOC FWF COMPLETE TEXT/DRAWINGS
- 1 CT BEARING HWR, CARB BOLT, NUT, WASHERS
- 1 CT BEARING HWR, PROP BOLT, NUT, WASHERS
- 1 BAG 604-1 FF MISC. HDWRE
- 1 BAG 607 FF MISC. HDWRE
- 1 BAG 608 FF MISC. HDWRE
- 1 BAG 611 FF MISC. HDWRE
- 1 BAG 613-1 FF MISC. HARDWARE
- 1 BAG 958 AN426AD3-4
- 1 BAG 991 AN426AD3-3.5
- 1 BAG 1907 AN426AD4-7
- 1 BAG 1916 AN426AD3-4.5
- 1 BAG 1934 AN426AD3-5
- 1 BAG 1935 AN426AD3-6
- 1 BAG 312 AN426AD4-6
- 1 BAG 1978 AN470AD4-5



*Firewall Forward Installation Kit (Continued)*

Part Number	Model	Engine	Propeller Type	Price
FF-7 0-320 CS	RV-7	O-320	CONSTANT SPEED	\$ 5140.00
FF-7 0-320 FP	RV-7	O-320	FIXED PITCH	\$ 3780.00
FF-7 0-360 CS	RV-7	O-360	CONSTANT SPEED	\$ 5140.00
FF-7 0-360 FP	RV-7	O-360	FIXED PITCH	\$ 3780.00
FF-7A 0-320 CS	RV-7A	O-320	CONSTANT SPEED	\$ 5140.00
FF-7A 0-320 FP	RV-7A	O-320	FIXED PITCH	\$ 3780.00
FF-7A 0-360 CS	RV-7A	O-360	CONSTANT SPEED	\$ 5140.00
FF-7A 0-360 FP	RV-7A	O-360	FIXED PITCH	\$ 3780.00
FF-7/7A IO-360 200 CS	RV-7/7A	IO-360	CONSTANT SPEED	\$ 5700.00
FF-7/7A IO-360M1B CS	RV-7/7A	IO-360 M1B	CONSTANT SPEED	\$ 5650.00
FF-8 O-320 FP	RV-8	O-320	FIXED PITCH	\$ 3750.00
FF-8 O-320 CS	RV-8	O-320	CONSTANT SPEED	\$ 5100.00
FF-8A O-320 FP	RV-8A	O-320	FIXED PITCH	\$ 3750.00
FF-8A O-320 CS	RV-8A	O-320	CONSTANT SPEED	\$ 5100.00
FF-8 O-360 CS	RV-8	O-360	CONSTANT SPEED	\$ 5100.00
FF-8 O-360 FP	RV-8	O-360	FIXED SPEED	\$ 3750.00
FF-8A O-360 CS	RV-8A	O-360	CONSTANT SPEED	\$ 5100.00
FF-8A O-360 FP	RV-8A	O-360	FIXED SPEED	\$ 3750.00
FF-8 IO-360 200 CS	RV-8	IO-360	CONSTANT SPEED	\$ 5600.00
FF-8A IO-360 200 CS	RV-8A	IO-360	CONSTANT SPEED	\$ 5600.00
FF-8 IO-360M1B C/S	RV-8	IO-360M1B	CONSTANT SPEED	\$ 5600.00
FF-8A IO-360M1B C/S	RV-8A	IO-360M1B	CONSTANT SPEED	\$ 5600.00
FF-9 0-320 CS	RV-9	O-320	CONSTANT SPEED	\$ 5140.00
FF-9 0-320 FP	RV-9	O-320	FIXED PITCH	\$ 3780.00
FF-9A 0-320 CS	RV-9A	O-320	CONSTANT SPEED	\$ 5140.00
FF-9A 0-320 FP	RV-9A	O-320	FIXED PITCH	\$ 3750.00
FF-9/9A IO-320 CS	RV-9/9A	IO-320	CONSTANT SPEED	\$ 5140.00
FF-9/9A IO-320 FP	RV-9/9A	IO-320	FIXED PITCH	\$ 3780.00
FF-10 IO-540	RV-10	IO-540	CONSTANT SPEED	\$ 6650.00
FF-10 IO-540 W/CT10-3	RV-10	IO-540	FIXED PITCH	\$ 6875.00
FF-6/6A ADDITIONS	RV-6/6A			\$ 60.00

**Premanufactured Hoses**

**Fuel, Oil and Manifold Pressure Lines**

The premanufactured hoses listed below are used in our firewall forward kits. We are listing them separately for use in aircraft builder's applications where they may be suitable. The fuel supply hoses have integral fireshields.

... Assemble your own custom hoses. See "Aeroquip Hose and Fittings" in the Hardware Section of this Catalog.

Part Number	Type of Line	Length and Diameter	Price
VA-119	MANIFOLD PRESSURE	21.50" x 1/4"	\$ 17.00
VA-102	FUEL PRESSURE	15.50" x 1/4"	\$ 15.50
VA-133	OIL PRESSURE	27.25" x 1/4"	\$ 18.25
VA-135	OIL COOLER	16.50" x 1/2"	\$ 86.30
VA-134	OIL COOLER	19.00" x 1/2"	\$ 91.00
VA-190	OIL COOLER	27.00" x 1/2"	\$ 107.50
VA-136	FUEL SUPPLY	23.00" x 3/8"	\$ 144.10
VA-138	FUEL SUPPLY	14.00" x 3/8"	\$ 83.40
VA-129	FUEL SUPPLY	15.50" x 3/8"	\$ 101.20
VA-139	FUEL SUPPLY	16.50" x 3/8"	\$ 92.60
VA-189	FUEL LINE IO-540	25.50" x 3/8"	\$ 149.00
VA-118-1	BRAKE	28.50" x 1/4"	\$ 18.50

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Exhaust Systems  
Stainless Steel Exhausts

4-pipe and crossover systems are available. Tests indicate negligible performance differences. Supplied complete with all mounting hardware and gaskets. Tailpipe support system must be fabricated from the supplied parts for the individual aircraft. These exhaust systems are fabricated specifically for Lycoming engines, not necessarily their variants. If you have a Mattituck, or AeroSport (or similar)



engine with custom oil sump or induction system then please call Van's Aircraft for assistance in determining your system requirements.

**EA EXH/MUFF 320/360-1**

A crossover exhaust system for the following aircraft:

RV-6/6A, RV-7/7A, RV-8/8A, and RV-9/9A with parallel valve (I)O-320 or (I)O-360 engines with VERTICAL induction. The system comes complete with a cabin heat muff that has a second outlet for carb heat, if required. This muff will **NOT** work with some starters - it was designed around the Sky-Tec LS series, and longer ones may interfere with the muff.

<b>EA EXH4P RV3CON320</b>	RV-3, 4-pipe, conical mt, O-320	\$ 810.00
<b>EA EXH4P RV3DYN320</b>	RV-3, 4-pipe, dynafocal mt, O-320	\$ 810.00
<b>EA EXH4P RV4CON320</b>	RV-4, 4-pipe, conical mt, O-320	\$ 810.00
<b>EA EXH4P RV4DYN320</b>	RV-4, 4-pipe, dynafocal mt, O-320 (except H2AD)	\$ 810.00
<b>EA EXH4P RV4DYN360</b>	RV-4, 4-pipe, dynafocal mt, O-360	\$ 810.00
<b>EA EXH/MUFF 320/360-1</b>	EXH RV-6/6A/7/7A/8/8A/9/9A Crossover System	\$ 1010.00
<b>EA EXHCO 7/7A IO-360</b>	RV-7/7A, crossover, IO-360 200hp	\$ 1075.00
<b>EA EXH 7/7A IO-360M1B</b>	RV-7/7A, crossover, IO-360M1B 180hp w/Muff	\$ 1075.00
<b>EA EXHCO RV8 IO-360</b>	RV-8, crossover, IO-360 200hp	\$ 1075.00
<b>EA EXHCO RV8A IO-360</b>	RV-8A, crossover, IO-360 200hp	\$ 1075.00
<b>EA EXH 8 IO-360M1B</b>	RV-8, crossover, IO-360M1B 180hp w/Muff	\$ 1075.00
<b>EA EXH 8A IO-360M1B</b>	RV-8A, crossover, IO-360M1B 180hp w/Muff	\$ 1075.00
<b>EA EXH 10 I(O)-540</b>	RV-10, Vetterman 6 into 2 system with two heat muffs	\$ 2075.00

## Engine Vibration Mounts

Vibration Absorber Between Engine and Engine Mount

The "EA DYNA VI-STD" fit Van's standard large cup Dynafocal engine mount used on the RV-4/6/7/8/9. Priced per pair. Lord brand.

**NOTE that four pairs are required for one engine installation!**

Does not come with bolts, nuts etc, so you must order in addition one bolt kit, part number: "EA DYNA BOLT".

The "EA CON VIBRATION ISO" is the Conical engine vibration mount. Adapts Van's CONICAL engine mounts to the older conical Lycoming engines. These are a very high quality model that transmits the least possible vibration to the airframe. Priced per pair.

**NOTE that four pairs are required for one engine installation!**

Does not come with bolts so you must order in addition part number: "EA CONICAL BOLT KIT"



<b>EA DYNA VI-STD</b>	Standard DYNAFOCAL RV-3,4,6,7,8,9	\$	125.00
<b>EA DYNA VI I(O)-540</b>	I(O)-540 DYNAFOCAL RV-10 only	\$	125.00
<b>EA CON VIBRATION ISO</b>	Standard CONICAL RV-3,4,6,7,8,9	\$	140.00

## Engine Bolt Set

Engine Bolt Set Attaches Engine to Mount Through Vibration Mounts

All engines sold by Van's Aircraft are "Dynafocal 1" mount style. These engines require the use of the bolt set "EA DYNA BOLT".

Some older engines in the field have a mount style referred to as "Conical" or "Straight". All Conical mount RV's use "EA CONICAL BOLT KIT" except RV-3 and RV-4 which use "EA CONICAL BOLT 3/4".

Dynafocal 1 and Conical Bolt sets include all the necessary bolts, castle nuts, washers and cotter pins.

The RV-10 using the I(O)-540 engines will require bolt set "EA DYNA BOLT I(O)-540".



<b>EA DYNA BOLT</b>	Dynafocal Bolt Set	\$	34.75
<b>EA DYNA BOLT I(O)-540</b>	Dynafocal Bolt Set for I(O)-540	\$	20.25
<b>EA CONICAL BOLT KIT</b>	Conical Bolt Set	\$	69.00
<b>EA CONICAL BOLT 3/4</b>	Conical Bolt Set RV-3/4 ONLY	\$	109.00



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Ordering Options

## Baffles, Alternators, Airboxes

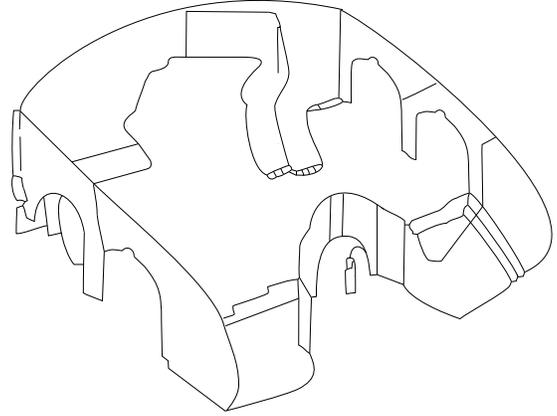
Things to hang on that power plant.

### Engine Cooling Baffle and Accessories

Complete Kits, Replacement Fabric, Plans

An air-cooled engine requires good engine baffling to direct the right amount of air to the right place. Van's Baffle Kits are well-proven: pre-punched parts are easy to install and the result cools well. They include pre-pent aluminum baffles, air seal material, all hardware and complete instructions.

It is important to order the correct kit for your RV type and engine. For (I)O-320 and (I)O-540 engines, this is straight-forward. However, O and IO-360 series engines can be confusing.



There are two types of Lycoming IO-360 engines. They use very different cylinders. The 180 hp engine, either carbureted or injected, is a parallel-valve engine. The 200 hp engine, always injected, is an angle-valve engine. The different cylinder types require different baffle kits. (Note that aftermarket engines may have different horsepower rating i.e. a parallel-valve engine with high compression pistons and other modifications may be rated at 200 hp. The hp rating is not important. What is important is the type of cylinder used.)

Those using 180 hp parallel-valve engines from Van's (O-360-A1A, IO-360-M1B) should order the BAF-360. (For the RV-4, order the BAF-4-360.)

Those using the 200 hp angle-valve engine from Van's (IO-360-A1B6) should order the BAF-8-IO360.

Those using engines acquired from some other source should determine the type of cylinder used and order accordingly. Aftermarket engines may use cylinders of a different configuration altogether. Van's baffle kits may fit with some alterations, but we can offer no plans or parts for such modifications.

**Note:** Baffle kits do not contain parts to mount the EA OIL COOLER II behind the #4 cylinder. Parts to do this are contained in the Firewall Forward kits. If you are not buying a FWF kit, but do want parts to mount the cooler, you can order the "EA OIL COOLER MNT KIT" which contains the necessary parts, including the oil hoses and fluid fittings. The cooler itself may also be ordered separately if necessary.

**Note:** Baffle kits do not contain the airbox/induction snorkel system for horizontally inducted engines like the IO-360-M1B and the IO-360-A1B6. These are contained in the Firewall Forward Kits. If you are not buying a FWF kit, you may order the FAB-HORIZ INDUCTION-1.

<b>BAF-4-320</b>	RV-3/4 O-320 Kit	\$ 270.00
<b>BAF-4-360</b>	RV-4 O-360 Kit	\$ 270.00
<b>BAF-320</b>	RV-6/6A/7/7A/8/8A/9A O-320 Kit	\$ 290.00
<b>BAF-360</b>	RV-6/6A/7/7A/8/8A (I)O-360 180hp Kit	\$ 290.00
<b>BAF-8-IO360</b>	RV-7/7A/8/8A w/IO-360 200hp	\$ 290.00
<b>BAF-10-540</b>	RV-10 parallel valve (I)O-540	\$ 310.00
<b>AIRSEAL FABRIC 12X56</b>	Replacement Airseal Fabric	\$ 41.00
<b>EA OIL COOLER MNT KIT</b>	Oil Cooler Mount Kit	\$ 180.00



**Alternator Brackets**

Generic Brackets

Generic brackets available for those who wish to source their own alternators. These brackets will work with most automotive alternators on typical Lycoming engines.

**ES ALT-BKT:** fits engines with bosses cast into crankcase - includes tension arm.

**VA-235-PC:** Case Mount Alternator Bracket fits older crankcases without bosses, attaches to crankcase through bolts. Requires Tension Arm (**VA- 152**). No mounting hardware.

<b>ES ALT-BKT</b>	Boss Mount Alternator Bracket Kit Only	\$	27.50
<b>VA-235-PC</b>	Case Mount Alternator Bracket	\$	13.00
<b>VA-152-1</b>	Alternator Tension Arm	\$	12.00

**Alternator Kit**

Boss Mount Engines

"Plane Power" alternator kit for boss mount engines: New (not rebuilt) 12 volt, 60 amp, internally regulated alternator. Dual fan design runs cooler to enhance reliability.

Kit includes regulator, overvoltage protection, brackets, pulley, plug, mounting hardware and belt for engines with 9.75" pulley (used on new Lycomings from Vans). Mounting and wiring instructions included. For engines with 7.5" pulley, order 30-5/8" long Gates XL 7300 3/8" V-Belt (pn 11A0760) from your favorite automotive parts dealer.

Weight: 6 Pounds, 15 Ounces



<b>ES ALTERNATOR DELUXE</b>	60 amp Alternator and Kit w/OV protection	\$	445.00
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 2. Call our order line at 503.678.6545

3. Fax your order to 503.678.6560  
 4. Use the order form to mail your order.

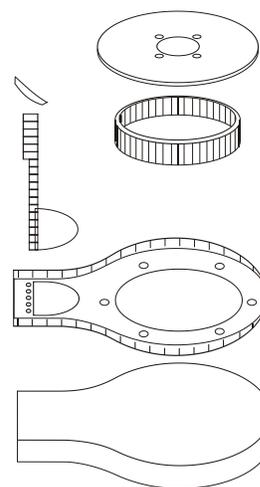
Van's Aircraft  
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### Filtered Airbox - Vertical Draft

Standard FAB (Filtered Air Box) System Filters Air to Engine

Offers all the advantages of a ram air induction system but with an efficient filter. Excellent manifold pressure recovery for maximum power and economy. Provision for alternate air may be adapted to carb heat. Requires cowl modification when retro-fit to older RV-3/4. Order the system that fits your aircraft, engine and induction device.

**NOT FOR any RV with Horizontal Induction.**



<b>FAB-320-1</b>	O-320 Carbureted	\$	175.00
<b>FAB-360/540</b>	O-360/540 Vertical Draft with Carburetor or Fuel Injection; also IO-320 with Bendix Fuel Injection	\$	179.00
<b>FAB-320 ELLISON-1</b>	O-320 with Ellison Throttle Body	\$	175.00
<b>FAB-360/540 ELLISON</b>	O-360/540 with Ellison Throttle Body	\$	179.00
<b>FAB-320 AP-1</b>	O-320 with Airflow Performance System	\$	175.00
<b>FAB-360/540 AP</b>	O-360/540 with Airflow Performance System	\$	179.00

### Filtered Airbox - Horizontal Draft

FAB System for: 180hp (IO-360M1B) or 200hp (IO-360A1B6) in the RV-7/7A and 8/8A ONLY

System includes ducting, filter, filter box and hardware.

For Bendix / Precision Injection Servos.

This "snorkel" airbox is designed to fit around the starters supplied on new 320/360 engines from Van's, the Skytec LS series. Other starters may require modification of the airbox.



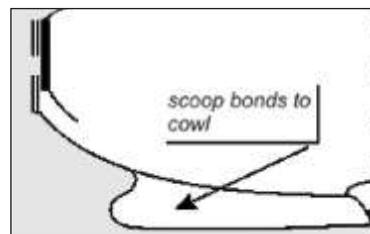
<b>FAB-HORIZ INDUCTION-1</b>	RV-7/7A, and RV-8/8A ONLY with IO-360M1B or IO-360A1B6	\$	330.00
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### Cowl Air Scoop

Separate Scoop for Custom Adaptations or Engine Changes

If you are changing engine sizes on an existing cowl installation you may need one of these!

Also, early RV-4's that don't have an engine air filtration system can use one of these air scoops to accommodate a Filtered Air Box (sold separately).



<b>FAB-4-SCOOP-320</b>	RV-3/4 with O-320	\$	64.00
<b>FAB-4-SCOOP-360</b>	RV-4 with O-360	\$	80.00
<b>FAB-6-SCOOP-320</b>	RV-6/6A with O-320	\$	76.00
<b>FAB-6-SCOOP-360</b>	RV-6/6A with O-360	\$	81.00
<b>FAB-6-SCOOP-320-1</b>	RV-6/6A with O-320 Type S cowl	\$	180.00
<b>FAB-6-SCOOP-360-1</b>	RV-6/6A with O-360 Type S cowl	\$	180.00

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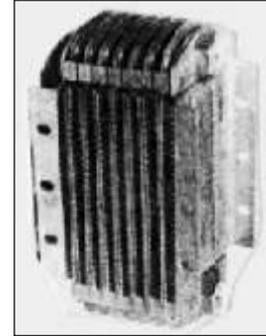
3. Fax your order to 503.678.6560  
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Oil Coolers, Gascolators, Fuel Pumps, Starters  
More accessories for that engine.

**Stewart Warner Style Oil Coolers**

Traditional Harrison/Stewart Warner Style Oil Coolers

Traditional Harrison/Stewart Warner style oil cooler. PMA'd. Seven tube style suitable for either O-320, O-360 and IO-360. Size 8-1/4" x 4-1/2" x 3-5/8". Weight 1.94 lbs. 3/8" NPT ports. Used in all Firewall Forward Kits **except RV-10**.



**EA OIL COOLER 20006A**

Traditional Harrison/Stewart Warner style oil cooler. PMA'd. Thirteen tube style suitable for either 4 cylinder Lycomings like the IO-360(200 hp) operated in extremely high ambient temperature locations or engines like the 6 cylinder I(O)-540 used in the RV-10 (unit is included in Firewall Forward Kits for the RV-10). Size 8-1/4" x 7" x 3-5/8". Weight 2.94 lbs. 3/8" NPT ports. Unit will not fit on the engine baffle. In order to firewall mount this unit you will need to purchase a VA-186 firewall mounting frame, a VA-187 baffle duct, an appropriate length of 4" scat, and some miscellaneous hardware.

<b>EA OIL COOLER II</b>	Fits O-320, O-360, IO-360	\$	270.00
<b>EA OIL COOLER 20006A</b>	IO-360(200 hp), I(O)-540	\$	420.00

**Oil Cooler Vent**

Cooler Shutter

Shutter designed to mount between the baffle and oil cooler to allow airflow regulation when the engine oil temperature is too cold.

Will fit the EA OIL COOLER II. Weighs 6oz.

Requires a cable to operate from the cabin if desired (CT A-740 and HW WIRE NUT KIT - not included).



<b>EA OIL COOLER VENT</b>	Cooler Shutter	\$	85.00
<b>HW WIRE NUT KIT</b>	Bowden Cable Wire End	\$	9.25
<b>CT A-740 BLACK</b>	72" long Push Pull Cable BLACK	\$	36.50

**Oil Cooler Installation Kit**

For Firewall Mounted Oil Cooler, "EA OIL COOLER II" ONLY

The oil cooler can be mounted in several places. If you choose to mount it on the firewall, this kit provides the metal duct and brackets necessary. Cooling air is supplied through a 3" SCAT tube (not provided).



<b>EA 3" OIL COOLER DUCT</b>	Mounting Kit	\$	37.50
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**Andair Gascolator**  
Chromic Anodized Aluminum Gascolator

Chromic anodized aluminum gascolator. Cleanable internal finger screen provides extensive filter area. Female ports accept standard AN hardware. Standard ports for primer/drain. Very high quality.

**Note:** Must also order quick drain bottom. If not using a primer system, you must also purchase the brass plug for the top.



<b>GAS-2</b>	Gascolator	\$	175.00
<b>CAV-110</b>	Quick Drain Bottom	\$	13.00
<b>F 1/8 PIPE PLUG BRASS</b>	Brass Plug	\$	0.88

**Van's Gascolator**  
Aluminum Gascolator

Made of anodized aluminum, with a simple disc screen. The bottom is tapered so it drains completely. The side is drilled for mounting. Right or Left outlet. Buy 1/4' pipe plug for unused port.

**Note:** Quick drain for bottom is NOT INCLUDED.  
If not using a primer system, you must also purchase the brass plug for the primer port.



<b>GAS-5</b>	Gascolator	\$	79.00
<b>CAV-110</b>	Quick Drain Bottom	\$	13.00
<b>F 1/8 PIPE PLUG BRASS</b>	Brass Plug	\$	0.88
<b>F 1/4 PIPE PLUG</b>	ALLEN HD PIPE PLUG	\$	0.50

**Engine Primer System**  
Prime for Easy Starting

A complete kit that provides an electrically activated solenoid system for priming your carbureted Lycoming. Kit includes the solenoid, the fittings, hardware, and documentation needed to install in any experimental aircraft. This system is not needed in moderate climates but very cold temperatures may require priming for easy starting.



<b>EA ENGINE PRIMER SYS</b>	2 CYLINDER ELECTRIC PRIME	\$	135.00
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**Electric Fuel Pump - Carbureted Engine**  
Facet Auxiliary Fuel Pump

By Facet. 12v solid state fuel pump for all RV models (except RV-12). 3/8" male outlet ports with 37 degree aircraft fittings. Provides 6 psi. NOT for use with high pressure (fuel injection) systems. RV-12 uses ES 40105 pump with different fittings.



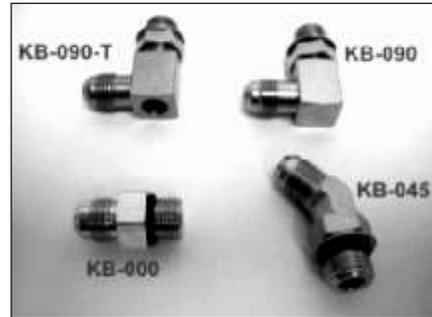
<b>ES 40108</b>	Facet Pump	\$	45.00
<b>ES 40105</b>	Fuel Pump RV-12 ONLY	\$	41.00

### Fuel Pump Fittings

Lycoming Pumps Require Special Fittings

Fits the mechanical fuel pump on a Lycoming engine. Beware! The pump does not take the tapered thread common to most AN fittings! Available in straight, 45 degree and right angle fittings, all with 3/8" AN flare outlets that mate with aircraft hoses.

Also available is a tee fitting, w/tapped 1/8" pipe thread port for fuel pressure fitting.



<b>KB-000</b>	Straight	\$	5.00
<b>KB-045</b>	45 Degree	\$	8.00
<b>KB-090</b>	90 Degree	\$	7.50
<b>KB-090-T</b>	Tee Fitting	\$	12.30

### Sky-Tec Flyweight™ Starters

Permanent Magnet Lightweight Starter

Now a factory option on new and factory remanufactured Lycoming engines. Weighs only 7.8 lbs. Features "no-Bendix" electromechanical engagement, very high torque, low current draw (only 185A @ 42 ft. lbs), maintenance free design, 2-year factory warranty and unlimited toll-free factory support (see [www.skytecair.com](http://www.skytecair.com)). Part number specifies number of teeth on engine ring gear.



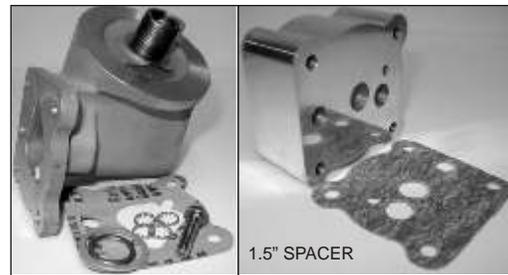
<b>ES 122-12 LS</b>	122 tooth	\$	385.00
<b>ES 149-12 LS</b>	149 tooth	\$	385.00

### Miscellaneous Items

#### Casper Labs

90 Degree Oil Filter Adapter

Casper Labs adapter improves access to the oil filter. High quality unit similar to their STC'd model, but for Experimental airplanes only. Choice of three spacers to ensure clearance from the engine mount. Different engine mount and engine combinations mean that different spacers may be required. Most RVs will need the 1.5" spacer, but thinner or thicker spacers are also available if more or less clearance is desired. We have not fitted these to all RV models, so we do not know which spacer is appropriate. Also, accessories fitted to the vacuum drive pad may affect clearances. Adapter and spacers include necessary gaskets and hardware, but a Vernatherm valve will be required if engine does not have one. Requires the CH48108-1 Filter (not supplied).



<b>EA FILTER ADAPTER</b>	90 Degree Oil Filter Adapter	\$	296.90
<b>EA FILTER SPACER 0.75</b>	3/4" Adapter Spacer	\$	64.00
<b>EA FILTER SPACER 1.5</b>	1 1/2" Adapter Spacer	\$	70.00
<b>EA FILTER SPACER 2.5</b>	2 1/2" Adapter Spacer	\$	70.00

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## Fuel Injection Pump and Filter

For Fuel Injected Lycoming Engines

The installation kit includes one HIGH pressure Airflow Performance electric pump, one Airflow Performance filter and the necessary components to install both in the RV-6/7/9A for fuel injected Lycoming engines.

The components mount forward of the fuel selector and the kit includes a cover.

RV-8/8A builders with pre-punched fuselage kits from Van's (shipped since 2007) do NOT need to purchase an installation kit, only a fuel pump (ES AIRFLOW PUMP-1) and filter (ES AIRFLOW FILTER).

RV-10 builders need only the pump and filter also - mount brackets are in the fuselage kit.

No return line is necessary with the -1 pump, so the fuel system plumbing is simplified compared to the earlier version.

RV-14 fuselage kits include a pump and filter.

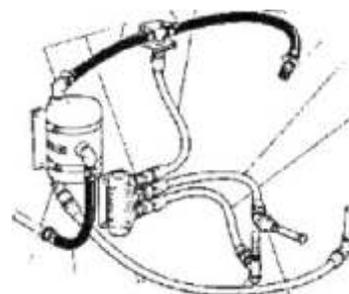


<b>7/7A F.I.PUMP KIT-1</b>	Installation Kit for RV-6/7/9A including pump and filter	\$	670.00
<b>ES AIRFLOW PUMP-1</b>	Pump Only	\$	425.00
<b>ES AIRFLOW FILTER</b>	Filter Only	\$	145.00

## Inverted Oil System

Christen System is the Standard for Sustained Inverted Flight

Keep your engine healthy while you enjoy (?) sustained inverted flight. Christen system is standard in many competition aerobatic airplanes. Provides lubrication and prevents oil loss during negative maneuvers. Installs without disassembling engine. All three components below necessary for complete installation. Not cheap, but what did your engine cost?



**Note:** Lead time for the **EA 801-4 INV OIL SYS** is approximately 4 months.

<b>EA 801-4 INV OIL SYS</b>	Basic 4-Cylinder System	\$	1215.00
<b>EA 807-4 FITTING KIT</b>	Deluxe Hose and Fitting Kit	\$	1648.00
<b>EA 811-A SUMP KIT</b>	Sump Kit	\$	825.00

## Accessory Case Cover Plate

For Engines Using a Fixed Pitch Propeller

If your engine is going to be operated with a FIXED PITCH propeller use this cover plate to cover the hole in the accessory case where the propeller governor would normally be installed.

The Gasket listed below is sold separately and is NOT included with the cover plate.

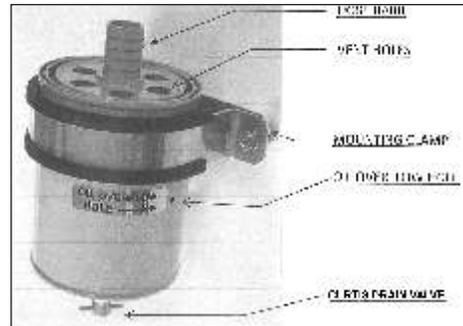
Not needed on new engines from Van's.



<b>PROP GOV COVER</b>	Cover Plate	\$	23.00
<b>PROP GOV COVER GASKET</b>	Gasket for the Cover Plate	\$	1.50

**Engine Crank Case  
Oil Breather Collection Can**

Designed to condense and retain oil vapor from crankcase vent. 5/8" inlet (4 cylinder Lycoming engines), with drain valve to remove condensate. Can diameter 3-1/4". NOT STC'd for certified aircraft.



<b>EA CASE VENT</b>	Oil Breather Collection Can	\$	98.00
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**Air-Oil Separator  
Reduce Oil Fouling**

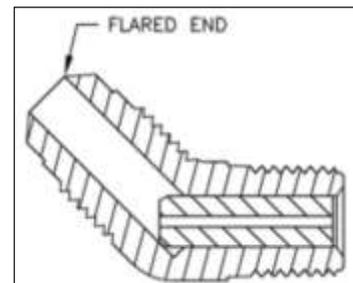
This Air-Oil separator is intended to reduce the oil fouling on the belly of the aircraft. Inserts into breather hose, and mounts on engine mount or firewall. An alternative is to terminate the breather tube over one of the exhaust stacks effectively burning off any oil before it can foul the belly.



<b>EA AIR-OIL SEPARATOR</b>	For 4 Cylinder Engines	\$	165.00
<b>EA AIR-OIL SEP RV10</b>	For 6 Cylinder Engines	\$	245.00

**Oil/Fuel Restrictor  
Oil/Fuel Flow Restrictor Fitting**

An oil/fuel flow restrictor fitting designed to fit the Lycoming engine oil pressure port as well as the fuel pressure port on the KB-090-T. This fitting is a modified AN823-4 and the restriction is a .040" hole. Threaded end is 1/8" NPT.



<b>VA-128</b>	OIL/FUEL RESTRICTOR	\$	24.00
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**Sniffle Valve  
Automatic Drain of Overflow Fuel**

Sniffle valve provides automatic drain of overflow fuel from the sump and closes when engine is running. Necessary only on horizontal induction fuel-injected Lycoming engines. Not used on vertical induction engines.



<b>EA LW-75444</b>	Sniffle Valve	\$	81.00
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### RV-4 Fuel Pump Overflow Fitting

Standard AN Fittings Won't Clear Firewall

A standard AN fitting on the overflow vent of a mechanical fuel pump will not clear the RV-4 firewall. This fitting solves the problem. Allows 1/4 inch plastic tube to route fuel away from the exhaust system should the mechanical fuel pump diaphragm fail.

Note: The tube end may be flared for an AN fitting or a plastic line can be installed over the tube. Use a light coat of fuel lube on the threads, finger tighten then an additional 1/2 to 2 turns. Tube must point down.

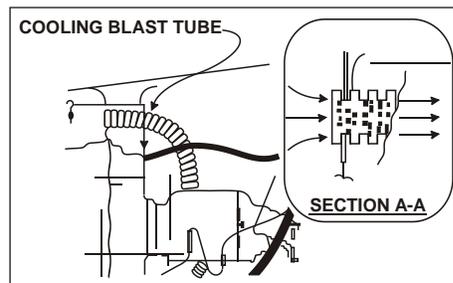


<b>F OVERFLOW PLUG 1/8"</b>	Plug	\$	10.70
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### Cooling Blast Tubes

Corrugated Blast Tubes 5/8" x 18"

Simple, light and inexpensive. 5/8" diameter, 18" length. Corrugated tubes withstand rigors of the engine compartment and direct cooling air to magnetos, fuel pumps, alternators, etc.



<b>DUCT CBT-5/8</b>	Cooling Blast Tube	\$	3.95
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### Fuel Pump

Cooling Shroud Kit

Use this kit to keep your engine-driven fuel pump cool and avoid vapor problems in the fuel system. Kit includes shroud and nylon duct to direct cool air to the mechanical fuel pump. Shroud only without duct also available. Fits all Lycoming fuel pumps.

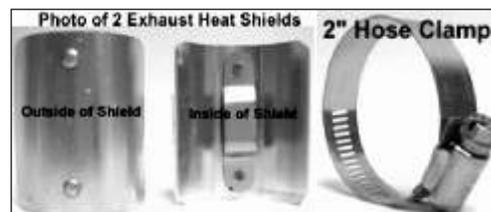


<b>EA PUMP SHROUD KIT</b>	Shroud and Install Kit	\$	68.00
<b>EA PUMP SHROUD</b>	Shroud Only	\$	65.00

### Heat Shield

Clamps to Exhaust Pipes

Clamp these to exhaust pipes to shield fuel lines, etc, from the radiant heat. Requires separate clamp (AN737TW-66).



<b>EA LV-1 HEAT SHIELD</b>	Shield	\$	12.00
<b>AN737TW-66</b>	2" HOSE CLAMP	\$	1.30

**Cowl Heat Protector**

Heat Reflective Material

A self adhesive heat reflective material designed to place on the interior of the cowl in locations where the proximity of the exhaust pipes might damage the resins.  
Also prevents oil/gas from soaking into the fiberglass. 4-5 linear feet is typically enough for most RV cowlings.



**30 inches wide. Sold by the foot.**

<b>EA EXHST/COWL SHIELD</b>	Cowl Heat Shield 30" Wide \$/FT	\$	6.60
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**Fuel Check Valve**

Option For Fuel Injected Engines

Usually used with fuel injected engines when designing by-pass system for some boost pumps. Male 37 degree fitting on each end fits 3/8" fuel lines.



<b>FUEL CHECK VALVE-375</b>	Check Valve	\$	50.00
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**Carb Heat Connector**

Mounts on FAB to Accept Heated Air

Mounts on FAB airbox. Flange accepts 2" SCAT tube from muff. Stand-off design allows hot air to escape when carb heat is not selected and allows full operation of lever opening alternate air door.



<b>VENT DL-07</b>	Connector	\$	18.00
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**Carb Heat Muff**

Straps on Crossover Type Exhaust

It can't get much simpler! Just strap this muff on the cross-over exhaust pipe and hook it up to a Vent DL-07 fitting on the airbox.



<b>EA CARB HEAT MUFF</b>	Preheat Muff	\$	30.00
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**Engine Warmer**

HotStrip Warmer Bonds to Engine Sump

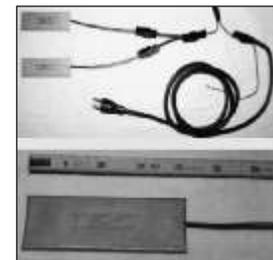
A warm engine starts easier and suffers less damage than a cold one.

Two systems available, one for typical RV Lycoming installations, another for the Rotax used in the RV-12. The Rotax system includes a heater band for the oil tank, to shorten the wait for minimum takeoff oil temperature.

Lycoming system bonds to bottom of sump to heat oil and crankcase. Heat is transferred by conduction and convection to the rest of the engine.

Made of steel for maximum durability. Uses a high-tech thermally conductive epoxy that heat cures in just a few minutes by plugging in the heater. Thermostat limits oil temp to about 150° F. The system includes thermostat, power cord, epoxy and connectors.

Both systems require 120VAC power - transformer required in countries using 220-240VAC.



<b>EA ENGINE WARMER</b>	Lycoming Engine Warmer	\$	189.00
<b>EA ENGINE WARM ROTAX</b>	Rotax Engine Warmer	\$	229.00

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## Miscellaneous Service Items

Filtered Airbox Accessories  
Filter Recharge Kit and Replacement Filters

The filter element needs periodic cleaning and re-oiling. Sometimes, the filter element may need to be replaced.



<b>EA K&amp;N 99-5050 KIT</b>	K&N Recharge Kit	\$	8.50
<b>E-3260</b>	O-320 Filter Element	\$	32.00
<b>E-3450</b>	O-360 Filter Element	\$	32.00
<b>E-33-2060</b>	RV-7/7A, 8/8A Horizontal Induction Filter Element	\$	34.00

Aviation Spark Plugs  
Champion Spark Plugs

Champion Spark Plugs feature superior heat transfer and leakage protection, advanced reliability, and long life for maximum cost-effectiveness.



<b>EA SPARKPLUG UREM37BY</b>	CHAMPION	\$	33.00
<b>EA SPARKPLUG UREM38E</b>	CHAMPION	\$	33.00
<b>EA SPARKPLUG UREM40E</b>	CHAMPION	\$	33.00

Lubricant for Spark Plug Threads  
Prevent Galling and Seizure

A high-temperature, graphite lubricant for spark plug threads to prevent galling and seizure. 4 oz bottle with brush applicator in top.



<b>EA SPARKPLUG LUBE T</b>	TEMPEST T556 Spark Plug Thread Lubricant	\$	9.90
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Champion Oil Filters  
CH-48108-1 and CH-48110-1

The Champion CH-48108-1 is used on the 90 Degree Oil Filter Adapter.  
The Champion CH-48110-1 is the common filter used in nearly all RV's with Lycoming engines.  
Compatibility (I)O-320/360/540.



<b>EA OIL FILTER 48108-1</b>	Used on the 90 Degree Oil Filter Adapter	\$	27.35
<b>EA OIL FILTER 48110-1</b>	(I)O-320/360/540 LYCOMING	\$	26.00

Aircraft Engine Oil Analysis Kit  
Aviation Laboratories

Powerful preventative maintenance tool.

- Diagnose abnormal wear
- Establish trends
- Decrease repair costs
- Evaluate prepurchase samples

Oil analysis can accurately detect the abnormal wear modes of specific oil wetted engine components, even on the very first sample, before the wear becomes severe. The results are compared to the interpretive guidelines developed for the engine make and model. Aviation Laboratories has been the leader in the development of oil analysis and oil results interpretation since 1985. Oil samples are analyzed within 24 hours by Inductively Coupled Plasma Spectrometry. Abnormal results are communicated by telephone. The postage is pre-paid to the laboratory. Just drop the test kit in the mail.

Price of Kit Includes:

- Wear Metal Analysis of one oil sample
- 1 Sampling hose
- 1 Sampling bottle
- 1 Shipping label
- 1 CIF form
- 1 Zip-lock bag



<b>EA OIL ANALYSIS KIT</b>	AVIATION LABS GA-001	\$	22.00
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**Oil Quick Drain**  
Makes Changing Oil Quick and Easy

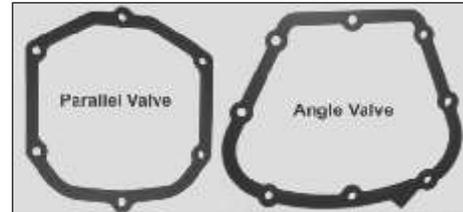
A great price on a real time saver. Speeds oil changes and saves burned fingers.  
No more fishing around in a bucket of hot oil for that @#% oil plug!



<b>F P5000</b>	Plug	<b>\$ 81.00</b>
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**Valve Cover Gaskets**  
High Temperature Silicone Rubber

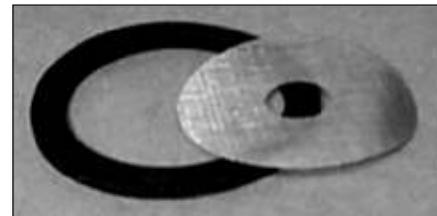
These valve cover gaskets replace the original cork gaskets that are standard on **Lycoming engines**. They are molded from high temperature silicone rubber and do not harden over time, so they can be re-used again and again. This hi-tech silicone rubber offers a much lower compression set, so it is superior at maintaining an oil-tight seal for the life of the engine.  
Two types available: parallel valve or angle valve engines. **NOT FAA approved. For experimental aircraft only.**



<b>EA GASKET VALVE CVR</b>	Gasket for Parallel Valve Only	<b>\$ 4.50</b>
<b>EA GASKET ANGLE VALVE</b>	Gasket for Angle Valve Only	<b>\$ 4.80</b>

**Gascolator Replacement Parts**  
Replacement Parts for the GAS-1 and GAS-3, 4, 5

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. The GAS-3, 4 and 5 all use the same "O" ring gasket and screen.



<b>GAS-1 GASKET</b>	GAS-1 Bowl gasket	<b>\$ 8.00</b>
<b>GAS-1 REPL SCREEN</b>	GAS-1 Bowl screen	<b>\$ 3.95</b>
<b>GAS-3-4-5 GASKET</b>	O Ring Gasket GAS 3,4,5	<b>\$ 1.00</b>
<b>GAS-3 REPL SCREEN</b>	Screen for GAS 3,4,5	<b>\$ 2.50</b>

**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	<b>\$ 7.75</b>
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**Carb/Sump Gasket**  
VA-149 Gasket  
Replacement gasket for Carb/Sump.

<b>VA-149 GASKET</b>	Replacement Carb/Sump gasket	<b>\$ 1.20</b>
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1. Shop on-line at <a href="http://www.vansaircraft.com">www.vansaircraft.com</a>	3. Fax your order to 503.678.6560	Van's Aircraft Ordering Options
2. Call our order line at 503.678.6545	4. Use the order form to mail your order.	

## Propeller Basics

Traditionally, RVs have used wooden fixed pitch propellers. These are available direct from the manufacturer (a partial list is included in the Builders Manual) and have given excellent service. They are light, reasonably priced and smooth running. They also offer a measure of protection to the engine in the unlikely event of a prop strike: the prop shatters, but usually leaves the much more expensive engine unharmed. However, wooden propellers require constant attention to bolt torque and blade condition. They are prone to damage if flown in rain or operated on gravel.

To overcome the drawbacks of wood props, many builders have expressed an interest in fixed pitch metal propellers. Previously, Van's recommended against this, because there was no metal prop that could be repitched to handle the speed of an RV without exceeding the twist or pitch limits established by the manufacturer. Several accidents in high speed homebuilts have been traced to propeller blade failure in repitched props. The Sensenich Propeller Company has designed a fixed-pitch metal prop specially for high-speed homebuilts like the RV. On the plus side, this prop is quite efficient and very low maintenance. On the debit side, it is more expensive than a wood prop.

An increasing number of airplanes are being equipped with constant-speed units. With a constant-speed, the engine can develop full power on take-off and climb, increasing performance considerably. Cruise speed increases only slightly, but fuel efficiency is improved. There is no doubt that a constant-speed prop is more efficient and flexible than a fixed pitch, but this is balanced by the dramatically greater expense and complexity. Choosing a propeller is a series of compromises. The 'correct' prop depends on many factors.

### Sensenich Spinner Front Plate

Different Spinner Plate is Required For the Sensenich Prop

Because the metal prop is not as thick as the typical wood prop, a different spinner front plate is required.

<b>S-605 SEN</b>	Spinner bulkhead for all 13" spinners	<b>\$ 55.00</b>
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### Sensenich Metal Props

Fixed Pitch Metal Props Specifically for RVs

The Sensenich metal propellers we sell were developed specifically for the RV series and are the ONLY fixed pitch metal propellers approved by Van's Aircraft, Inc. for use on RV aircraft. Propellers from production aircraft are not suitable, and unfortunate experience has shown that modified production propellers can fail without warning with deadly consequences.



Because the metal prop is not as thick as the typical wood prop, a different spinner front plate is required.

#### **NOTE: 70CM (150/160 HP) PROPELLERS ARE LIMITED TO MAXIMUM 2600 RPM**

Use the charts below to choose the proper propeller. Start by determining the length of crankshaft spacer required by the cowl in your Finish Kit. Kits shipped since late 1993 include the short cowl (shown on the packing list or inventory sheet as C/S) which uses a 2-1/4" extension. Prior to 1993, cowls for fixed pitch props used long cowls (shown on the packing list or inventory sheet as Fixed Pitch or FP). This uses a 4" spacer. You must also choose the diameter of the prop bolts required by your engine, and the horsepower rating of your engine. New 160 hp engines from Van's use 7/16" bolts, new 180 hp engines use 1/2" bolts. Prop pitch recommendations (in parentheses on the chart below) are based on cruise speeds for RVs equipped with gearleg fairings, landing gear intersection fairings and Van's Pressure Recovery (PR) wheel fairings. Cruise speeds for RVs with older wheel fairings (narrow cross-section w/ brake blisters) will be 5-6 mph slower and require a prop with approximately 2" less pitch. A rule of thumb: 1" of pitch change equals about 25 rpm static and about 30-40 rpm at full throttle cruise.

Here's how to decode the part numbers: PROP 70CM7S9-0 (81) means: 70 = design diameter in inches, CM = designator for O-320, 7 = bolt diameter in 16ths of an inch, S = requires crank spacer, 9 = length of spacer in 1/4s of an inch, 0=full length blade (not cut down) (81) = pitch in inches. This prop is suitable for a 150 hp RV-3 or a 160 hp RV-4, using a 2-1/4" spacer and requiring 7/16" crank bolts.

**Currently the The Sensenich metal propellers for the O-360 that have part numbers starting with PROP**

**72FM8S(xx-x) are NOT CERTIFIED, and are considered an EXPERIMENTAL prop.**

**The Sensenich metal propellers for ALL of the O-320's ARE CERTIFIED propellers.**

**If a new propeller and an Experimental Lycoming engine are ordered at the same time. Van's can offer a special "package" discount on the combination. Call for details.**

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*Sensenich Metal Props (Continued)*

Determine the pitch required for your aircraft from the chart below:

AIRCRAFT	HORSE-POWER	REQUIRED PITCH	AIRCRAFT	HORSE-POWER	REQUIRED PITCH
RV-3	150/160	(81)	RV-6A/7A/8A/9A	150	(77)
RV-4	150	(79)	RV-6A/7A/8A/9A	160	(79)
RV-4	160	(81)	RV-4	180	(85)
RV-6/7/8	150	(78)	RV-6/7/8	180	(85)
RV-6/7/8	160	(80)	RV-6A/7A/8A	180	(85)



**SPECIAL ORDER FORM REQUIRED:** <http://www.vansaircraft.com/public/order-forms.htm> or contact Van's Aircraft, Inc.

<b>PROP 70CM6S9-0 (77)</b>	▲	Sensenich O-320, 2 1/4" spacer, 3/8"bolt, 77" pitch	\$ 3300.00
<b>PROP 70CM6S9-0 (78)</b>	▲	Sensenich O-320, 2 1/4" spacer, 3/8"bolt, 78" pitch	\$ 3300.00
<b>PROP 70CM6S9-0 (79)</b>	▲	Sensenich O-320, 2 1/4" spacer, 3/8"bolt, 79" pitch	\$ 3300.00
<b>PROP 70CM6S9-0 (80)</b>	▲	Sensenich O-320, 2 1/4" spacer, 3/8"bolt, 80" pitch	\$ 3300.00
<b>PROP 70CM6S9-0 (81)</b>	▲	Sensenich O-320, 2 1/4" spacer, 3/8"bolt, 81" pitch	\$ 3300.00
<b>PROP 70CM7S9-0 (77)</b>	▲	Sensenich O-320, 2 1/4" spacer, 7/16"bolt, 77" pitch	\$ 3300.00
<b>PROP 70CM7S9-0 (78)</b>	▲	Sensenich O-320, 2 1/4" spacer, 7/16"bolt, 78" pitch	\$ 3300.00
<b>PROP 70CM7S9-0 (79)</b>	▲	Sensenich O-320, 2 1/4" spacer, 7/16"bolt, 79" pitch	\$ 3300.00
<b>PROP 70CM7S9-0 (80)</b>	▲	Sensenich O-320, 2 1/4" spacer, 7/16"bolt, 80" pitch	\$ 3300.00
<b>PROP 70CM7S9-0 (81)</b>	▲	Sensenich O-320, 2 1/4" spacer, 7/16"bolt, 81" pitch	\$ 3300.00
<b>PROP 70CM6S16-0 (77)</b>	▲	Sensenich O-320, 4" spacer, 3/8"bolt, 77" pitch	\$ 3300.00
<b>PROP 70CM6S16-0 (78)</b>	▲	Sensenich O-320, 4" spacer, 3/8"bolt, 78" pitch	\$ 3300.00
<b>PROP 70CM6S16-0 (79)</b>	▲	Sensenich O-320, 4" spacer, 3/8"bolt, 79" pitch	\$ 3300.00
<b>PROP 70CM6S16-0 (80)</b>	▲	Sensenich O-320, 4" spacer, 3/8"bolt, 80" pitch	\$ 3300.00
<b>PROP 70CM6S16-0 (81)</b>	▲	Sensenich O-320, 4" spacer, 3/8"bolt, 81" pitch	\$ 3300.00
<b>PROP 70CM7S16-0 (77)</b>	▲	Sensenich O-320, 4" spacer, 7/16"bolt, 77" pitch	\$ 3300.00
<b>PROP 70CM7S16-0 (78)</b>	▲	Sensenich O-320, 4" spacer, 7/16"bolt, 78" pitch	\$ 3300.00
<b>PROP 70CM7S16-0 (79)</b>	▲	Sensenich O-320, 4" spacer, 7/16"bolt, 79" pitch	\$ 3300.00
<b>PROP 70CM7S16-0 (80)</b>	▲	Sensenich O-320, 4" spacer, 7/16"bolt, 80" pitch	\$ 3300.00
<b>PROP 70CM7S16-0 (81)</b>	▲	Sensenich O-320, 4" spacer, 7/16"bolt, 81" pitch	\$ 3300.00
<b>PROP 72FM8S9-1 (85)</b>	▲	Sensenich O-360, 2 1/4" spacer, 1/2" bolt, 85" pitch	\$ 3380.00
<b>PROP 72FM8S16-1 (85)</b>	▲	Sensenich O-360, 4" spacer, 1/2" bolt, 85" pitch	\$ 3380.00

**Spinner Kits**

Spinner Kits for Fixed Pitch and Constant Speed

Spinner kits are part of the Finish Kits. However, should you upgrade to a constant speed prop, or change from a wood to a metal prop, then you may need one of these kits. Kits include front and rear bulkheads, hardware, and fiberglass spinner bowl. Individual spinner parts are available in the webstore. The three kits are:



- **SPINNER, C/S-13:** The standard spinner kit for all constant speed models, except some composite type propellers. The rear bulkhead is 13" diameter, the front 7 7/8". The spinner bowl and rear bulkhead are the same components used on the fixed pitch models.
- **SPINNER, FP-13:** The standard spinner kit for all wood prop fixed pitch installations since 1995. The rear bulkhead is 13" diameter, the front 10 7/8"
- **SPINNER, FP-13 SEN:** The standard spinner kit for the Sensenich metal props which are typically thinner than wood prop hubs. The rear bulkhead is 13" in diameter, the front 11 3/16".

Older RV-3 & 4 kits (prior to 1995) used spinners with a 12" rear bulkhead. These are no longer available.

<b>SPINNER, C/S-13</b>	13" Constant speed spinner kit	\$ 220.00
<b>SPINNER, FP-13</b>	13" Fixed pitch spinner kit for Wooden props	\$ 220.00
<b>SPINNER, FP-13 SEN</b>	13" Fixed pitch spinner kit for Sensenich, metal props	\$ 220.00

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## Sensenich Composite Blade Prop Lightweight Ground Adjustable Prop

Sensenich have developed a ground-adjustable composite propeller. According to Sensenich, it's "as light and smooth-running as wood, and as tough as metal". It offers options not available with fixed pitch props: climb or cruise, speed or economy. But without the weight and expense of a constant speed prop. Its unique blade shape makes it stand out on any flight line. We haven't done any comparison performance testing with the propeller, but expect that it should be at least equal to Sensenich's metal props.

Designed for (IO-320 engines of 150/160 hp (NOT the 180 hp (IO-360) using 7/16" prop bolts, it features two hollow carbon-fiber blades in an anodized aluminum hub. The pitch can be changed accurately and quickly, using Sensenich's Pitch Pin system. The prop is 72" in diameter, and by itself weighs just 18 lbs. It is supplied with a 2.25" spacer and a custom fitted 13" spinner is available (the standard spinner supplied in Van's Finishing Kits won't work with this prop, and can be deleted for credit). The 12" spinner used on early RV-3 and 4 kits will not work with this propeller, and no 12" spinner is available for it. The prop is not TSO'd and may only be installed on Experimental airplanes.

The 2.25" spacer is standard for all Van's cowls and mounts shipped since 1993. For those requiring a 4" spacer, or who have (IO-320 engines with 3/8" prop bolts, the prop may be ordered without the spacer or bolts. Spacers and bolts for these applications are available from Saber Manufacturing ([www.sabermfg.com](http://www.sabermfg.com)).

PRICES: Shipping in the U.S. is included. International shipping at extra cost.



<b>PROP 2G0M7/C72RG-0</b>	Propeller with 2.25" spacer w/7/16" mounting bolts	\$ 3500.00
<b>PROP 2G0M7-NS/C72RG-0</b>	Sensenich Propeller with no spacer	\$ 3350.00
<b>SPINNER, C2300 SEN</b>	13" Spinner kit	\$ 650.00



## MT Propellers

Constant Speed 2-Blade and 3-Blade Models

MT propellers are manufactured by MT-Propeller Entwicklung GmbH of Atting, Germany. They are used on many certified and experimental airplanes all over the world.

The blades feature a plastified beech wood core, wrapped in several layers of composite (glass fiber/carbon fiber) depending on model. A stainless steel leading edge protects against erosion. The natural composite design of the blades eliminates corrosion and allows unlimited blade life. Hubs are machined from aerospace aluminum. Propellers include a kevlar spinner assembly.

Pitch change is by either an electric or a hydraulic system. The hydraulic system is preferred, because the pitch change is about 6 times faster than the electric. However, if your engine is not compatible with a hydraulic system, the electric constant speed gives you the only alternative to get a full constant speed system.

Both propeller systems are fully FAA certified. Electric props are NOT recommended for aerobatics.

Both two-blade and three-blade models are available, with either electric or hydraulic pitch change. Blades are white with red tips or gray and white tips, spinners are painted in white.

Van's Aircraft, Inc. has not had the opportunity to test all MT models, so it is up to the customer to determine the proper propeller for his/her engine and aircraft. The MT-Propeller 3-blade propeller models have no restricted rpm range on 4 cylinder Lycoming engines. Vibration surveys were also conducted with electronic ignition and high compression pistons.

Please see the MT PROPELLER ORDER FORM for weights w/spinner and additional details.

MT PROPS FOR THE LYCOMING (I)O-320 150/160 hp, (I)O-360 180/200 hp and the (I)O- 540 260/300 hp are listed below.

**If a new propeller and an Experimental Lycoming engine are ordered at the same time. Van's can offer a special "package" discount on the combination. Call for details.**



**SPECIAL ORDER FORM REQUIRED:** <http://www.vansaircraft.com/public/order-forms.htm> or contact Van's Aircraft, Inc.

<b>PROP MTV11C/183-59</b>	▲	O-320, 72" 2 Blade, hydraulic pitch change	\$ 8525.00
<b>PROP MTV12C/180-57</b>	▲	O-320, 71" 3 Blade, hydraulic pitch change	\$ 10500.00
<b>PROP MTV17C/183-59</b>	▲	O-320, 72" 2 Blade, electric pitch change	\$ 10400.00
<b>PROP MTV18C/180-57</b>	▲	O-320, 71" 3 Blade, electric pitch change	\$ 12350.00
<b>PROP MTV15B/183-50</b>	▲	O-360, 72" 2 Blade, hydraulic pitch change	\$ 9900.00
<b>PROP MTV12B/183-59B</b>	▲	O-360, 72" 3 Blade, hydraulic pitch change	\$ 10500.00
<b>PROP MTV20B/183-50</b>	▲	O-360, 72" 2 Blade, electric pitch change	\$ 12300.00
<b>PROP MTV18B/183-59B</b>	▲	O-360, 72" 3 Blade, electric pitch change	\$ 12350.00
<b>PROP MTV12B/193-53</b>	▲	(I)O-540, 76" only for 540 3 Blade, hydraulic pitch change	\$ 10500.00



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## Hartzell Constant Speed Propellers

### New Constant-Speed Propellers

Van's Aircraft has an OEM agreement with the Hartzell Propeller Company which enables us to offer brand new constant-speed propellers for RV aircraft. This agreement requires that propellers purchased from Van's be used in RVs.

These props weigh 50 to 55 lbs. They require a constant-speed cowl unless noted otherwise. Since mid 1994, this has been the standard cowl shipped with all kits. These props go to a flat pitch (take-off position) with no oil pressure and go to maximum pitch with maximum control pressure which is supplied by an engine driven prop governor.

The recently developed "blended airfoil" propellers from Hartzell are designated as "C2YR" while the older style "paddle blade" propellers are designated "C2YL". The propellers with a 74" blade diameter are applicable to the "A" or tricycle gear aircraft except on the RV-8, while the 72" blade diameters are recommended for the tailwheel aircraft due specifically to ground clearance issues.

A Hartzell three blade composite propeller is available for the RV-10. Must be bought with the polished aluminum spinner, as the Van's kit spinner will not work with a three blade propeller.

A 74" or 72" two blade composite propeller for the (I)O-360 180/200hp engines is also available.

We have no performance data to compare these composite propellers with the aluminum blended airfoil type.

No testing has been done that suggests any performance difference between the 72" and 74" propellers.

- PROP C2YL-1BF/F7663-4 (I)O-320 diameter: 72"  
Application: RV-3, RV-4, RV-6/6A, RV-7/7A, RV-8/8A, RV-9/9A
- PROP C2YR-1BF/F74972 (I)O-360 (180/200hp) diameter: 72"  
Application: RV-4, RV-6/6A, RV-7/7A, RV-8/8A
- PROP C2YR-1BF/F7497 (I)O-360 (180/200hp) diameter: 74"  
Application: RV-7A, RV-8/8A

Please review propeller application restrictions on the Hartzell website.

ALL HARTZELL PROPS INCLUDE BOLTS AND MOUNTING HARDWARE.

BECAUSE OF THE O.E.M. AGREEMENT, THESE PROPELLERS MUST BE ORDERED IN WRITING.

**If a new propeller and an Experimental Lycoming engine are ordered at the same time. Van's can offer a special "package" discount on the combination. Call for details.**

### ALUMINUM BLENDED AIRFOIL



### COMPOSITE PROPELLER



**SPECIAL ORDER FORM REQUIRED:** <http://www.vansaircraft.com/public/order-forms.htm> or contact Van's Aircraft, Inc.

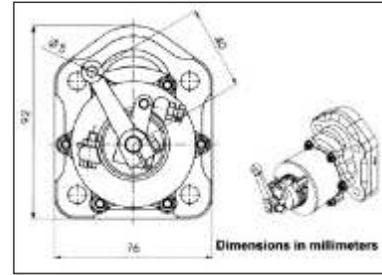
<b>PROP C2YL-1BF/F7663-4</b>	▲ Compact hub Constant-speed prop for (I)O-320 72"	\$ 7400.00
<b>PROP C2YR-1BFP/F7497</b>	▲ Compact hub Constant-speed prop for (I)O-360 (180/200hp) 74"	\$ 7475.00
<b>PROP C2YR-1BFP/F74972</b>	▲ Compact hub Constant-speed prop for (I)O-360 (180/200hp) 72"	\$ 7475.00
<b>PROP C2YR-1BFP/F8068D</b>	▲ Compact hub Constant-speed prop for (I)O-540 (260hp) 80"	\$ 7500.00
<b>PROP C3Y1R-1N/N7605C</b>	▲ Three-blade Constant-speed prop for (I)O-540 (260hp) 78" dia	\$ 17050.00
<b>SPINNER C-4582-P</b>	▲ Spinner for three-blade PROP C3YR-1N/N7605	\$ 1200.00
<b>PROP G2YR/N7605W-2X</b>	▲ 74" dia. Extended hub composite 2-blade. Use with (I)O-360 180/200 hp	\$ 12250.00
<b>SPINNER D-4798-P</b>	▲ Polished spinner. Req'd w/G2YR/N7605W-2X composite 2-blade prop	\$ 1250.00

### Prop Governors

Constant-Speed Props Require an Engine Mounted Governor  
 Constant-speed propellers require an engine mounted governor to control RPM. New engines from Van's have a governor drive and mounting pad, but do not include the governor. A governor is included in the FWF kits when appropriate.

Van's offers governors from MT and Hartzell. Both are high quality, affordable products, that can be used interchangeably. An MT governor can be used with a Hartzell prop and vice-versa.

Van's also has a control cable attach bracket that fits both Hartzell and MT prop governors sold by Vans. VA-153-PC.



<b>PROP GOV MT P-860-4</b>	MT governor (I)O-320/360 Lycoming	\$ 1250.00
<b>PROP GOV MT P-860-3</b>	MT governor (I)O-540 Lycoming	\$ 1250.00
<b>PROP GOV HZ 320/360</b>	Hartzell governor (I)O-320/360 Lycoming	\$ 1295.00
<b>PROP GOV HZ O-540</b>	Hartzell governor for O-540 Lycoming	\$ 1370.00
<b>PROP GOV HZ IO-540</b>	Hartzell governor for IO-540 Lycoming	\$ 1295.00
<b>VA-153-PC</b>	Hartzell or MT governor cable bracket	\$ 12.75

### Accessories for Wood Propellers

Van's does not supply wood propellers. We prefer to let the builder order direct from the manufacturer. We do supply the mounting hardware necessary for a typical wood prop.

Before 1994, all fixed pitch installations used a 4" spool type prop extension between the crankshaft and the prop, while the constant-speed prop had an integral 2-1/4" extension. In 1994 we began offering a 2-1/4" cylindrical extension for fixed pitch props and standardized on the shorter cowl, which is still known as the 'constant-speed' cowl, even though both constant-speed or fixed pitch props can now be installed.

We still stock bolts for the 4" extension for older kits and repairs. Study the charts and drawings so you are sure you are ordering the correct parts for your aircraft. Along with a propeller extension, a wood prop requires a crush plate on the forward face, between the bolt heads and the prop. Crush plates differ, depending on whether you are using the spool or cylindrical extension.

### Prop Extension Bolts

Used to Mount 4" Spool Extension to Crank Flange on Older Kits With Long Cowl

Bolt size determined by engine crankshaft. New O-320 engines from Van's use 7/16". In addition to this set of bolts, a set of 6 each prop bolts are required to attach the prop to the extension. Priced as a set of six bolts.

<b>PROP EXT BOLT KIT 3/8</b>	Set of 6 each 3/8" bolts to attach 4" spool extension to engine flange	\$ 30.00
<b>PROP EXT BOLT KIT 7/16</b>	Set of 6 each 7/16" bolts to attach 4" spool extension to engine flange	\$ 30.00

### Propeller Bolts

Used to Mount Wood Propellers

Includes washers and self-locking nuts. Length based on typical prop thickness of 4-3/8" - 4-1/2". There are two styles of prop extensions and each style requires a different type of prop bolt. The 4" spool extension uses a 3/8" bolt with an O-320 or a 1/2" bolt with an O-360 engine. The 2-1/4" cylindrical extension uses a bolt through the crush plate, prop, extension and into the engine crank flange. Not available in 3/8". If your crank requires 3/8", the bushings must be replaced with 7/16" bushings (not available in this catalog). The O-360 uses 1/2". Priced as a set of six.

<b>PROP BOLT KIT 3/8"</b>	Set of 6 each 3/8" bolts to attach prop to 4" spool extension	\$ 75.00
<b>PROP BOLT KIT 1/2"</b>	Set of 6 each 1/2" bolts to attach prop to 4" spool extension	\$ 75.00
<b>PROP BOLT KIT AN7*82</b>	Set of 6 each 7/16" bolts to attach prop to 2 1/4" cylindrical extension	\$ 130.00
<b>PROP BOLT KIT AN8*82</b>	Set of 6 each 1/2" bolts to attach prop to 2 1/4" cylindrical extension	\$ 136.75

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## Propeller Extensions

### Deluxe Extensions for Wood Propellers

This series of propeller extensions are specifically designed for all currently manufactured RV kit aircraft cowls. The extension length is 2 1/4" and it is 7" in diameter. The design incorporates dual 6 bolt patterns, one pattern for the extension/crankshaft bolts and one pattern for the propeller/extension bolts. The purchaser should select the extension based on the bolt diameter in the crankshaft lugs in his engine.

All of these extensions come with the bolts and washers for installation on the engine, but not the propeller bolts. The lugs provided for the propeller bolts are threaded so no nuts are required. The builder will choose the prop bolts and washers based on the thickness of their wood propeller hub. Go to **Saber Mfg., Inc.**'s web site to find suitable bolts.



<b>PROP EXT 320 3/8</b>	Prop Extension 2.25 w/Bolts	\$	433.00
<b>PROP EXT 320 7/16</b>	Prop Extension 2.25 w/Bolts	\$	433.00
<b>PROP EXT 360 1/2</b>	Prop Extension 2.25 w/Bolts	\$	405.00

## Crush Plate

### Crush Plate for Wood Props

Wood props require a large washer under the heads of the prop bolts to keep the bolts from damaging the prop. This washer is called a crush plate and actually performs a function of clamping the prop between the crush plate and the extension. There are two style of crush plates. The newer cylindrical style extension uses the PCP-320/360X7" which works with either the O-320 or O-360 engine. The 4" spool extension uses a different style crush plate that retains the bolt heads, not allowing them to rotate.

Part Number	Dia	Bolt Size	Thickness		Price
<b>PROP PCP-320/360X7"</b>	7	7/16 & 1/2	1/2	\$	69.00

## Spacer

### Crush Plate Spacers for Proper Spinner Bulkhead Spacing

Wood props from different manufacturers vary. If yours is thinner, you may need a spacer between the prop face and the front plate of the spinner to position the plate correctly. This spacer is 1/8" thick, 7" diameter. May be used with 4" or 2-1/4" extension and any engine.

<b>PROP SPACER 1/8"</b>	1/8" thick spacer	\$	11.00
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## Control Cables

Vernier and Quadrant Style Control Cables, several sizes, styles, and applications. Engine control cables are available in vernier and push-pull styles. Several different lengths are available so try to measure your application before ordering. Routing will make a difference. The length of the cable is measured from tip-to-tip on the quadrant cables (CT Q-XX) or from the mounting surface of the vernier style cable (CT V-XX) to the tip of the cable when the control is in the forward position. All cables are "bulkhead mounted". This means the outer sheathing is captured on each end with nuts. A swivel of about 15 degrees allows the ends to flex without wearing the cable.

## Quadrant Cables

Cables with 10-32 Thread on Each End

The following cables are designed for use with quadrants. 10-32 (AN3) thread on each end. Primarily used on tandem and single place aircraft. Some other standard lengths available: call for size.



Part Number	Use	A/C	Length	Price
CT Q-43	Elevator Trim	RV-10-Any	43"	\$ 69.00
CT Q-45.5	Misc	Any	45.5"	\$ 69.00
CT Q-48	GOV ACC Case	4	48"	\$ 69.00
CT Q-49.5	Throttle	RV-10-Any	49.5"	\$ 77.00
CT Q-52.5	Mixture	RV-10-Any	52.5"	\$ 77.00
CT Q-55	Throttle/Mixture: O-320/O-360	3/4	55"	\$ 77.00
CT Q-55	Mixture/GOV ACC Case	8/8A	55"	\$ 77.00
CT Q-60	Throttle: O-320/O-360/IO-360	8/8A	60"	\$ 77.00
CT Q-67	Fwd Gov	8/8A	67"	\$ 82.00
CT Q-70.5	Prop Gov	RV-10-Any	70.5"	\$ 82.00
CT Q-CUSTOM	Any	All	Custom	\$ 85.00

## Vernier & Push-Pull Panel Mount Cables

Cables with Knobs on Cockpit End

The following cables are equipped with a vernier \* knob on one end intended to be mounted on a panel with a 10-32 thread on the engine end. Primarily used on side-by-side (SxS) aircraft.

\* **Except: "CT BLK THROTTLE" which are friction lock.**



Part Number	Use	A/C	Length	Price
CT BLUE VPROP 45.5	Governor	6(all)	45.5"	\$ 73.50
CT BLUE VPROP 48	Governor	7(all) 9(all)	48"	\$ 75.50
CT RED VMIXTURE 45	Mixture	6(all)	45"	\$ 71.00
CT RED VMIXTURE 45	Mixture	7(360) 9(320)	45"	\$ 54.00
CT RED VMIXTURE 47	Mixture	7(320) 9(235)	47"	\$ 76.15
CT RED VMIXTURE 50.5	Mixture	7A(IO-360)	50.5"	\$ 78.00
CT BLK THROTTLE 44.5	Throttle	6(all) 7(360) 9(320)	44.5"	\$ 61.50
CT BLK THROTTLE 46.5	Throttle	7(320) 9(235)	46.5"	\$ 62.50
CT BLK THROTTLE 50.5	Throttle	7(IO-360)	50.5"	\$ 63.50
CT BLK THROTTLE 47.5	Throttle	10(IO-540)	47.5"	\$ 62.50
CT BLUE VPROP 72.5	Governor	10(IO-540)	72.5"	\$ 83.50
CT RED VMIXTURE 51.5	Mixture	10(IO-540)	51.5"	\$ 78.00

## Simple Detented Push-Pull Cables

Cables for Carb Heat, Cabin Heat, etc.

The Bowden cable has many uses. May be used as cabin heat control, carb heat or alternate air and purge valve control in fuel injected versions of the engine. The cable is a push-pull with a detent to keep the cable from creeping. Choose Red or Black knob.



Part Number	Use	A/C	Length	Price
CT A-740 RED	Multi Red Knob	All	72"	\$ 38.00
CT A-740 BLACK	Multi Black Knob	All	72"	\$ 36.50
CT A-740 CABLE CLAMP	Clamp for securing cable sheathing	All	n/a	\$ 11.00

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**Throttle / Mixture Cable Bracket**  
Supports Cables at Engine Attach

Van's now carries a complete line of throttle brackets with integral mixture attach points for the Lycoming O-320 and O-360 engines. These 4130 steel brackets are to be installed between the carburetor and the engine sump. This simple method only requires one additional carburetor gasket and we include it with the units listed.

A system for installing either the throttle or mixture cable on the 200HP-IO-360 is also available. See below.

IT IS UP TO THE BUILDER TO DETERMINE THE SUITABILITY OF THIS ITEM TO HIS/HER INSTALLATION.

<b>VA-182-PC KIT</b>	THRTL/MIX BRCKT IO 320/360/540 Vertical Induction	\$	23.50
<b>VA-149-320-PC KIT</b>	THRTL/MIX BRCKT/320	\$	25.25
<b>VA-149-360-PC KIT</b>	THRTL/MIX BRCKT/360	\$	20.00
<b>IO-360 THROTTLE/MIX</b>	THROTTLE/MIX KIT Horizontal Induction	\$	103.00

**Governor Cable Bracket**  
For Constant Speed Prop Control Cable

Powder coated 4130 steel bracket to attach propeller rpm control cable to governor. Fits MT or Hartzell prop governors sold by Vans.



<b>VA-153-PC</b>	Hartzell or MT governor cable bracket	\$	12.75
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**Spherical Metal Grommets**  
Bulkhead Fittings for Control Cables or Wiring

**One Hole Fitting -- Part No: EYEBALL TTP-125**  
Bulkhead carry through assembly for control cables or wiring. Installs in 1.115" hole in firewall. Hole size 1/8", can be enlarged up to 3/8" as required.

**Aluminum Bulkhead Fitting -- Part No: EYEBALL SE961-125B**

Bulkhead carry through assembly for control cables or wiring.

Hole size 1/8", can be enlarged up to 3/8" as required.

**Steel Bulkhead Fitting -- Part No: EYEBALL SE961-125S**

Bulkhead carry through assembly for control cables or wiring. Hole size 1/8", can be enlarged up to 0.26" as required.



<b>EYEBALL TTP-125</b>	One Hole Fitting	\$	38.00
<b>EYEBALL SE961-125B</b>	Aluminum Bulkhead Fitting	\$	30.00
<b>EYEBALL SE961-125S</b>	Steel Bulkhead Fitting	\$	38.00

**Cable Fittings and Throttle Quadrants**  
Fittings to attach cable ends to items controlled; throttle quadrants.

**Rod End Bearings and Hardware**  
Ends for the Firewall Fwd End of Cable

10-32 female thread matches cables shown above. 3/16" bearing hole.



<b>CT BEARING MW-3M</b>	Rod End Bearing	\$	7.95
<b>CT BEARING HWR, CARB</b>	Attachment hardware for throttle or mixture	\$	1.10
<b>CT BEARING HWR, PROP</b>	Attachment hardware for prop governor	\$	1.10

**Clevis Fittings**  
Attaches Cabin End of Cables to Quadrant

Steel clevis attaches cabin end of RV-3, RV-4, and RV-8 control cables to quadrant. 10-32 female thread, 3/16" bearing hole. Comes with clevis pin and cotter key. The nylon clevis is lighter, suitable for attachments in cabin or trim systems.

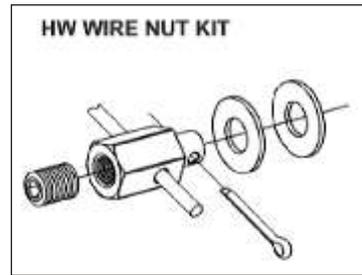


<b>F-453A</b>	Steel Clevis	\$	13.00
<b>HW NYLON CLEVIS 1032</b>	Nylon Clevis (not for control quadrants)	\$	13.50

### Wire Nut Kit

Termination End for Bowden Type Cables

(HW WIRE NUT KIT) is often referred to as a "bug nut" and is an alternative termination end for the same Bowden type cables. It is specifically designed for carburetor heat/alternate air cable to actuator arms, cabin heat actuator arms or similar cable device connections.

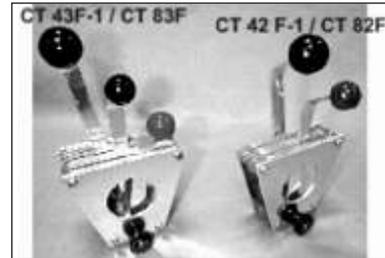


<b>HW WIRE NUT KIT</b>	Bowden cable wire end	\$	9.25
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### Throttle Quadrants

2 and 3 Lever Versions Available

Two lever versions for throttle and mixture. Three lever version for throttle, prop and mixture. Requires F-453A clevis end for each lever. The rear seat quadrant is complete with all hardware for installation and connecting to main quadrant.



<b>CT 42F-1</b>	RV-3/4 2-Lever quadrant	\$	60.00
<b>CT 43F-1</b>	RV-3/4 3-Lever quadrant	\$	70.00
<b>CT 82F</b>	RV-8/8A 2-Lever quadrant	\$	60.00
<b>CT 83F</b>	RV-8/8A 3-Lever quadrant	\$	70.00
<b>CT 81R</b>	RV-8/8A 1-Lever quadrant for Rear Seat	\$	49.00

### RV-8/8A Deluxe Throttle Quadrants

CT 83F DELUXE - 3 Lever and CT 82F DELUXE - 2 Lever

The CT 83F DELUXE is a throttle quadrant for the RV-8/8A. It is a direct replacement for the standard CT 83F but includes engraved wording to identify "THROTTLE-R.P.M.-MIXTURE" and it is black anodized with appropriately colored knobs.

The CT 82F DELUXE is the same as above but is designed for fixed pitch propeller installations.

Requires F-453A clevis end for each lever.



<b>CT 83F DELUXE</b>	3 LEVER DELUXE -8/8A	\$	205.00
<b>CT 82F DELUXE</b>	2 LEVER DELUXE -8/8A	\$	180.00

### RV-10 Throttle Quadrant Kit

Deluxe Three Lever Quadrant Kit

The **CT 10-3 QUADRANT KIT** is a three lever throttle quadrant and includes the engine control cables for installation on the RV-10 with an IO-540. It is black anodized with appropriately colored knobs. Includes clevis parts.



<b>CT 10-3 QUADRANT KIT</b>	3 Lever Kit for IO-540	\$	570.00
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## Van's Aircraft Series Engine Instruments

A brand new line of engine gauges, developed by Van's Aircraft, Inc., and usable in almost any experimental airplane. Compare the quality and price to other gauges and expensive monitoring systems. Features:

- High quality movements in injection molded cases.
- Standard aircraft 2-1/4" hole and mounting pattern.
- Internally lit (12v only).
- Electric design uses transducers and senders. No pressurized fuel and oil in the cabin.
- Wires attached with nuts (included) to 6/32 studs on instrument. No spade fittings.
- Cases have brass inserts for #6 mounting screws. No need to use instrument "grasshopper" nuts.
- Clear and sharp lettering with the appropriate operating arcs and redlines screened directly on the face.
- All gauges warranted by Van's Aircraft, Inc. for 1 year from the date of purchase (original purchaser only).

### Van's Series Tachometer

2-1/4" Lighted, Uses Transducer

Range 0-3500 RPM. Green arc from 500-2700. Red line at 2700. Requires transducer. Installation in aircraft with vacuum system requires the tach with 12 inch extension cable. Works with all magneto systems, whether Bendix, Slick or any of the Electronic systems. Does not have an hour recorder function.

Available separately is hour meter activated by oil pressure switch, records engine time. System requires ordering both components (Meter and switch) separately. Optional oil pressure switch can be wired to run Hour Meter and illuminate a panel light if the oil pressure drops below 15 psi. Besides being a monitor should you lose oil pressure, this effectively works as a warning to turn the Master Switch off when the engine shuts down provided a large enough red light is mounted on the panel.



<b>IE VTACH3500</b>	Tach Gauge	\$	45.00
<b>IE VTACHGEN 2</b>	Transducer for systems without vacuum pumps	\$	88.00
<b>IE VTACHGEN 12</b>	Transducer for systems with Vacuum Pump Equipped Engines	\$	90.00
<b>IE VTACH EXT12</b>	Drive extension if you add a vacuum pump later	\$	23.00
<b>IE 104152X2.625</b>	Replacement drive key for VTACHGEN 2	\$	11.50
<b>IE R8864</b>	Hour Meter	\$	21.00
<b>IE SPDT PRES-15 SW</b>	Oil pressure switch for activating Hour Meter and light	\$	35.00

### Van's Series Manifold Pressure Gauge

2-1/4" Lighted

Range 10 to 35 inches.

Manifold Pressure Gauge includes sender.

Recommended even with fixed pitch installations.



<b>IE VMP35</b>	MAN PRES 35" W/SENDER	\$	84.00
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### Install Kit for Van's Series Manifold Pressure Gauge

Fittings and Hoses to Install the Gauge and Sender

Fittings and Hoses to install the IE VMP35 gauge and sender.

<b>IE VMP INSTALL KIT</b>	FITTINGS/HOSES	\$	35.00
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### Van's Series Oil Temperature Gauge

2-1/4" Lighted, Uses Transducer

Range 50-250°F. Yellow arc from 50°-140°. Green arc from 140°-245°. Red line at 245°.

Requires transducer and adapter.



<b>IE VOT250</b>	Oil Temp Gauge	\$	37.00
<b>IE 02017-00</b>	Required Transducer	\$	13.50
<b>VA-147</b>	Adapter required on most engines	\$	9.50

**Van's Series Oil Pressure Gauge**  
2-1/4" Lighted, Uses Transducer

Range 0-100 PSI. Yellow arc from 25-55. Green arc from 55-95. Red line at 95.  
Requires transducer.



<b>IE VOP100</b>	Oil Pressure Gauge	\$	37.00
<b>IE 411K</b>	Required Transducer	\$	49.00

**Van's Series Fuel Gauge**  
2-1/4", Uses Same SW Senders (IE F-385B & C) as Always

Fuel gauge with markings in gallons and color bands. Calibrated for RV-4/6/8/9/10 wing tanks. We recommend one gauge for each tank.



<b>IE VFL14</b>	FUEL LEVEL RV-9	\$	37.00
<b>IE VFL15</b>	FUEL LEVEL RV-4/6/7/8	\$	37.00
<b>IE VFL24</b>	FUEL LEVEL RV-10	\$	36.00
<b>IE F-385B</b>	Sending unit for left tank	\$	29.00
<b>IE F-385C</b>	Sending unit for right tank	\$	29.00

**Van's Series Fuel Pressure Gauge**  
2-1/4" Lighted, Uses Transducer; Carb or Injected Available

Carb and fuel injection systems use different instruments. Carb gauge range 0-15 PSI. Red lines at 0.5 and 8. Green arc from 0.5-8. Injection gauge range 0-50 PSI. Red lines at 15 and 45. Green arc from 14-45. Both require transducer.



<b>IE VFP15</b>	Pressure Gauge For Carbureted Engines	\$	37.00
<b>IE 411AB</b>	Carbureted Transducer	\$	40.00
<b>IE VFP50</b>	Pressure Gauge For Injected Engines	\$	37.00
<b>IE 411L</b>	Injected Transducer	\$	50.00

**Transducer Manifold**  
Mount for 3 Transducers

**VA-168** This device mounts on the firewall and provides a mount for individual fuel and oil pressure systems. Each section has three ports, one for the flex hose, one for the transducer and one for a second transducer/switch. Flex hoses will go between the engine and the manifold. Transducers are typically not mounted on the engine due to possible failure because of vibration. Pipe plugs are available to terminate the third port if not used.



<b>VA-168</b>	3 port manifold/mounting block	\$	19.00
<b>F 1/8 PIPE PLUG BRASS</b>	Pipe plug for unused ports on VA-168	\$	0.88

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Van's Series Voltmeter  
2-1/4" Lighted

Range 8-16 volts. Green arc from 13-15. Yellow arcs from 12-13 and 15-16.



<b>IE VV16</b>	Voltmeter	\$	37.00
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Van's Series Ammeter  
Ammeter (+/- 40 amp) Using External Shunt

Ammeter (requires external shunt) for monitoring either the alternator current or the battery current. Both systems can be monitored by using two shunts and a switch with one Ammeter display.



<b>IE VAM40</b>	40 amp (+/-) range	\$	37.00
<b>IE VAMSHUNT40</b>	Shunt for ammeter	\$	26.00

Van's Series CHT  
2-1/4" Lighted Cylinder Head Temperature Gauge

Cylinder Head temperature gauge. Complete with color bands representing the proper operating range for the O-320, O-360, and IO-360 engines. You must use the Electronics International Probes (**IE P-100**), and wire extensions (**IE XS-6**) with these units.

Use "Electronics International Rotary Switches" for multiple cylinder monitoring. See "*Electronics International Rotary Switches*" in this section of the catalog.



<b>IE VCHT600</b>	Cylinder Head Temperature gauge	\$	45.00
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Van's Series EGT  
2-1/4" Lighted Exhaust Gas Temperature Gauge

Exhaust gas temperature gauge. A quality low cost gauge designed to work with Electronics International probes (**IE P-110**) and wire extensions (**IE XS-6**).

Use "Electronics International Rotary Switches" for multiple cylinder monitoring. See "*Electronics International Rotary Switches*" in this section of the catalog.



<b>IE VEGT1600</b>	Exhaust Gas Temperature gauge	\$	45.00
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## Electronics International Engine Instruments

EI makes a complete line of TSO'd digital instruments accurate to within 1%. Large backlit LCD displays are easy to read.

**EI offers factory rebates from time to time on some of the products listed below. Rebates can be obtained directly from them after purchase. Go to [www.buy.ei.com](http://www.buy.ei.com) to check for rebates.**

### Electronics International Dual Fuel Gauge

Digital Readout Plus Simulated Analog Display

Single display; switch on front selects left tank, right tank or total fuel remaining on digital display. Displays simulated analog display for left tank and right tank. Calibrated during tial filling in 2 gallon increments to correct for sender position for very accurate fuel level readings. Available for either resistive or capacitive senders.

The resistive fuel system (IE FL-2R) requires float type senders:  
E F-385B and IE F-385C).

The Capacitive system uses capacitive probes built into the tanks during construction. When ordering the fuel gauge (IE FL-2C) you must also order two converters (IE P-300C).

**The capacitive system is not available on QuickBuild models.**

Each capacitive sender kit includes the materials needed to complete both tanks on a airplane. Thus you need only order (1) one kit per airplane.



<b>IE FL-2R</b>	Resistive type dual fuel gauge	\$ 415.00
<b>IE FL-2C</b>	Capacitive type dual fuel gauge	\$ 415.00
<b>IE P-300C</b>	Capacitive frequency converter (one per tank required)	\$ 45.00

### Electronics International 3-Function Gauge

Single Display, Switch on Front Selects EGT/CHT/OAT

Switch on face selects between Exhaust Gas Temperature/Outside Air Temperature/Cylinder Head Temperature ie: EGT/OAT/CHT. Fits 2-1/4" hole. Supplied with one probe per channel. Add double deck switch with additional probes to provide 4 cylinder monitoring.

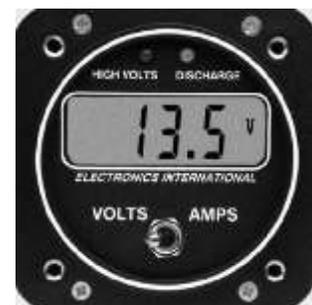


<b>IE EAC-1</b>	Single channel EGT/OAT/CHT Gauge	\$ 430.00
<b>IE RS4-2S</b>	Double deck Switch with 3 EGT and 3 CHT probes	\$ 470.00

### Electronics International Volt/Ammeter

Switch On Front Selects Volt or Amp Function; Has Warnings

Switch on face selects between volt and amps. Gauges are available with internal shunt, or with external shunt. External shunt variety can be easier to wire into many panels. All gauges come with preset warnings.



<b>IE VA-1A</b>	With Internal Shunt	\$ 335.00
<b>IE VA-1A-50</b>	With EXTERNAL Shunt (included)	\$ 405.00

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**Electronics International Tachometer**

Digital Readout Plus Simulated Analog Display

Digital read-out in center, progressive lit LEDs around perimeter simulate analog needle. Includes tach timer, flight timer. Operates on mags, CDI and auto ignitions. Easy installation. 2-1/4" hole, 3-1/2" long. Connects to mag lead through isolator.



<b>IE R-1</b>	Digital Tach	\$ 445.00
<b>IE RC-1 CAP</b>	Cap for tach drive port on engine	\$ 6.00

**Electronics International Manifold Gauge**

Digital Readout Plus Simulated Analog Display

Accurate and precise. Same digital/analog format as tach. Recommended even for fixed pitch installations. 2-1/4" hole, 3-1/2" long.



<b>IE M-1</b>	Manifold Pressure Gauge	\$ 484.00
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**Electronics International Oil Pressure/Temperature**

Single Digital Readout Plus Two Simulated Analog Displays

Pressure to 1 lb and temp to 1 degree F. Overtemp warning lights. Digital/analog display. 2-1/4" hole, 3-1/2" long. Includes sensors and cables.



<b>IE OPT-1</b>	Oil Temp/Pressure Gauge	\$ 510.00
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**Electronics International Ultimate Analyzer**

Programmable System Has 2 Displays and 16 Channels

Automatically scans up to 16 channels. Shows simultaneous digital data on two display windows. Programmable alerts for temp limits, cooling rates, etc. Includes 4 EGT and 4 CHT probes. Order other probes to expand functions to OAT, Oil temp, Carb temp, etc.



<b>IE US-8A</b>	Ultimate Analyzer	\$ 1445.00
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**Electronics International Panel Mount Clocks**

Time, Timer, Density Altitude, Encoder Display

Two models. ASC-5 includes local/Zulu, up/down timer, density altitude, encoder display, programmable alerts and intervals-for changing fuel tanks etc. It does not make coffee. The simpler SC-5 has all the same time features, but not the altitude functions.



<b>IE ASC-5</b>	Full Version	\$ 475.00
<b>IE SC-5</b>	Light Version	\$ 300.00

## Electronics International Fuel Flow/Fuel Pressure Programmable For Fuel Management Functions

Accurately measures fuel flow. Computes fuel remaining, fuel consumed, time until empty.

Programmable alarm limits and units: US gallons, Imperial gallons, liters or pounds. Includes flow transducer, all wires and connectors. Also available with data port for connection with Loran/GPS or fuel pressure module. For systems with continuous fuel return lines, a fuel flow differential probe is required.



<b>IE FP-5</b>	FP-5 w/Flow	\$	625.00
<b>IE FP-5L</b>	FP-5L w/Loran/GPS Data Port	\$	605.00

## Electronics International Rotary Switches Expands Capabilities of EI Gauges

Single channel instruments may be combined with rotary switches to display multiple channels.

For instance, an EAC-1 combined with a RS4-2S switch will provide nine channels; enough for 4-cylinder EGT/CHT and a carb temp or OAT. RS4-1A is a single deck switch for one function gauge. Three probes included. When added to probe that comes with gauge, all four cylinders may be monitored.

RS4-2S is a double deck switch for two functions. 3 EGT and 3 CHT probes and extensions included.



<b>IE RS4-1S CHT</b>	Single deck Switch with 3 CHT probes	\$	299.00
<b>IE RS4-1S EGT</b>	Single deck Switch with 3 EGT probes	\$	299.00
<b>IE RS4-2S</b>	Double deck Switch with 3 EGT and 3 CHT probes	\$	470.00

## Electronics International Probes and Accessories Expands Capabilities of EI Gauges

Use these sensors and connectors to expand the capability of Electronics International gauges. These are type 'K' probes and may not be compatible with other manufacturers instrumentation.

<b>IE P-100</b>	Screw-in CHT Probe	\$	95.00
<b>IE P-101</b>	Bayonet CHT Probe	\$	100.00
<b>IE A-101</b>	Bayonet Adapter (Mounts in Cylinder, Accepts CHT Probe)	\$	10.50
<b>IE P-110</b>	EGT Probe w/Hose Clamp	\$	95.00
<b>IE P-120</b>	Oil Temp Probe (5/8-18 thread)	\$	95.00
<b>IE XS-6</b>	Cable, 6', Connects Probe to Gauge (flat blade male/female fittings on each end)	\$	37.00
<b>IE P-128</b>	OAT Probe	\$	95.00
<b>IE XP-6</b>	OAT 6' Extension Cable	\$	32.85
<b>IE XCS-6</b>	6' Extension Cable for systems with Circular Connector	\$	39.00
<b>IE CP-1</b>	LED Intensity Control	\$	26.75
<b>IE P-300C</b>	Capacitive to voltage converter (one per tank required)	\$	45.00

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Van's Aircraft  
Ordering Options

## Analog Gauges

Available from several manufacturers. Most engine instrumentation functions available.

### UMA Electronic Analog Tachometer

2-1/4" and 3-1/8" Sizes Available

Made by UMA. The 3-1/8" version (shown), includes a built-in hour meter; however, the small 2-1/4" size does not. Both units are complete with a sender that attaches to the mechanical drive on Lycoming engines, with a 6' wiring harness. **This may be incompatible with some vacuum pumps, or oil filter adapters.**



<b>IE UMA-19-511-112</b>	2-1/4" Tachometer	\$ 295.00
<b>IE UMA-19-811-112</b>	3-1/8" Tachometer	\$ 378.00

### UMA Manifold Pressure Gauge

2-1/4" Gauge

Manifold pressure. Made by UMA. 2-1/4".



<b>IE UMA-7-100-20</b>	Manifold Pressure Gauge	\$ 170.00
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### UMA Suction Gauge

1" Miniature Gauges Saves Panel Space

1" miniature gauge saves panel space. Made by UMA.

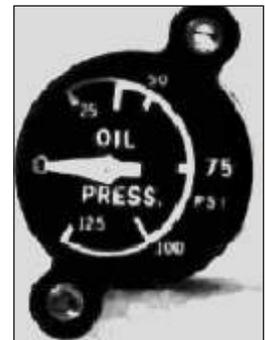


<b>IE UMA-3-200-10</b>	Suction Gauge	\$ 144.00
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### UMA Oil Pressure Gauge

1-1/4" Miniature Gauge

1-1/4" miniature gauge. Range 0-125 psi. Made by UMA.



<b>IE UMA-3-311-30</b>	Oil Pressure Gauge	\$ 200.00
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**UMA Fuel Pressure Gauges**  
 1-1/4" Miniature Gauge for Carbureted  
 or Fuel Injected Systems

1-1/4" miniature gauge. Range 0-10 or 0-35 psi. Made by UMA.



<b>IE UMA-3-311-23</b>	0-10 psi Fuel Pressure Gauge	\$ 200.00
<b>IE UMA-3-313-10</b>	0-35 psi Fuel Pressure Gauge	\$ 200.00

**FC-10**  
 Economical Fuel Flow System

- Includes Floscan 201 Sender and Prefabricated Wiring Harness
- Displays:  
 Flow, Used, Remaining, Endurance, Required, Reserve, and Efficiency
- User Selectable Units:  
 Gallons, Liters, Nautical Miles, Statute Miles, Kilometers
- Communicates with your GPS (Handheld or Panel Mount)
- Automatic Backlight Brightness
- Standard 2-1/4" Instrument
- 12-28 Volt Compatible
- Weight 2.4oz, Width and Height 2.375"X 2.375", Depth behind panel 0.67 "



<b>IE FC-10</b>	Fuel Flow Gauge	\$ 355.00
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**ISSPRO Hour Meter**  
 Records Time; Activated by Oil Pressure Switch

Hour meter activated by oil pressure switch, records engine time. System requires ordering both components (Meter and switch) separately. Optional oil pressure switch can be wired to run Hour Meter and illuminate a panel light if the oil pressure drops below 15 psi. Besides being a monitor should you lose oil pressure, this effectively works as a warning to turn the Master Switch off when the engine shuts down provided a large enough red light is mounted on the panel.



<b>IE R8864</b>	Hour Meter	\$ 21.00
<b>IE SPDT PRES-15 SW</b>	Oil pressure switch for activating Hour Meter and light	\$ 35.00

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## Autopilot Product Line TruTrak Flight Systems

Van's Aircraft now offers the complete line of TruTrak autopilots to our customers.

TruTrak serves the experimental aircraft market with the broadest autopilot product line and the most features available. Software solutions to flight control and user interface combined with modern surface-mount electronics, solid-state gyros, and digital servo actuators makes these the most reliable and smallest units possible.

All of the autopilots listed below are designed to be either installed during kit construction or retrofit in flying aircraft. Some builders have requested we supply the "servos only" to simplify the installation during construction and possibly save initial cost. However, due to the ease of installation in completed aircraft, we have decided not to offer the "servos only" option but instead will make available only the complete units.

All electro-mechanical devices "age" and because of the rapidity of advances in technology in this arena, we strongly advise that you do not purchase too far in advance of use.

### Digitrak Autopilot

The Digitrak with its 2¼" face is a single-servo autopilot with a built-in means of selecting a drift-free direction of flight. Direction is based on GPS, but does not require programming the GPS for a given course as is the case when the CDI is being followed. With GPS present, the three-digit display shows selected direction when flying straight. When in a turn, either when the autopilot is on or when the pilot is in control; the display shows the digital DG. The arrow buttons enable the selected direction to be adjusted in one-degree steps. When a button is held down for more than one second and released, the aircraft enters a turn which can be stopped by pressing the opposite button when the desired new direction is reached. If GPS is lost, the Digitrak will lock on to magnetic direction when engaged, but the direction is not displayed.

Special Order Item 100% deposit required when item is ordered.



<b>IF DIGITRAK AP</b>	BASIC SINGLE AXIS AP (including servo & installation hardware)	\$ 1650.00
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### Altrak Stand Alone Altitude Hold

Altrak is a stand alone altitude hold. It can be used either alone or in conjunction with any wing leveler to provide two axis autopilot functionality. It is equal to or better than the altitude hold within any other aftermarket autopilot available today. Altrak does not require any panel space other than the engage/disengage push button. Push the button to engage, push it again to disengage. Once engaged, an LED in the switch will indicate that the unit is engaged. The standard Altrak will flash the LED in the engage button if the altitude gets off by approximately 25 feet, fast flash for low and slow flash for high. Order **IF ALTRAK**. Also available, is a trim sensing servo for an additional cost which will sense the need for trim before the system begins to lose or gain altitude. This is enunciated with the same flashing of the LED. The trim sensing servo is not necessary for Altrak to work properly, but some may want the added function that the trim sensing servo will give.

For the Altrak with the trim sensing servo order **IF ALTRAK TS**.

Special Order Item 100% deposit required when item is ordered.



<b>IF ALTRAK</b>	Altitude Hold	\$ 1650.00
<b>IF ALTRAK TS</b>	Altitude Hold w/Trim Sense	\$ 1950.00

## Digiflight II

Two Servo Autopilot

- Uses standard 2.25" Round Instrument Hole
- Built-in Digital Slaved Directional Gyro
- Digital Heading Selector
- Best Dynamic Performance Available  
(Equal to that of the highest-priced position autopilots)
- Simple Intuitive User Interface
- All Solid-State Sensors
- The Only Completely Digital System
- Lighter and Smaller than Comparable Systems
- Simple Installations
- GPS Nav Mode
- Only external input required is GPS RS-232 (Aviation format or NMEA 0183)
- True Control Wheel Steering\*



\* True control wheel steering means that upon release, the system synchronizes to the direction of flight over the ground, not to bank angle or turn rate. Multi-Servo autopilots synchronize to vertical speed. These are the only autopilot systems available with this feature. 2.5"H X 2.5"W X 7"D

Special Order Item 100% deposit required when item is ordered.

<b>IF DIGIFLIGHT II</b>	TWO AXIS 2-1/4" Round (including servo and installation hardware)	\$ 3690.00
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## Digiflight IIVS and Digiflight IIVSGV

Two Servo Autopilots

### Digiflight IIVS

**All Digiflight-II Features plus:**

- Climb and Descend on Vertical Speed
- Trim Sensing Pitch Servo that Annunciates for Trim
- Lateral GPS Steering (GPSS) Option
- Failsafe Automatic Pitch Trim Option (see details below)  
2.5"H X 2.5"W X 7"D

### Digiflight IIVSGV

**All Digiflight-IIVS Features plus:**

- Lateral GPS Steering (GPSS) Standard
- Vertical GPS Steering (GPSV) Standard
- TruTrak is the Only Company Offering GPSV
- 2.5"H X 2.5"W X 7"D



### Failsafe Automatic Pitch Trim Part # IF DIGIFLIGHT TRIM

This option can be added to the Digiflight IIVS and Digiflight IIVSVG. Connects autopilot with MAC trim servos to retrim the airplane when the autopilot servo senses that the airplane is out of trim.

Special Order Item 100% deposit required when item is ordered.

<b>IF DIGIFLIGHT IIVS</b>	2 AXIS W/VERTICAL SPD, 2-1/4" Round (including servo and installation hardware)	\$ 4100.00
<b>IF DIGIFLIGHT IIVSG</b>	TWO AXIS W/VERTICAL SPD and GPS STEER, 2-1/4" Round (including servo and installation hardware)	\$ 4450.00
<b>IF DIGIFLIGHT IIVSGV</b>	TWO AXIS 2 AXIS W/VSGPSS +VGPS, 2-1/4" Round (including servo and installation hardware)	\$ 4900.00
<b>IF DIGIFLIGHT TRIM</b>	Failsafe Automatic Pitch Trim	\$ 350.00

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## Airspeed Indicators

Airspeed indicators come in 3-1/8 inch and 2-1/4 inch format. There are airspeed indicators and true airspeed indicators that allow you to enter the outside air temperature and the altitude, thereby indicating the TRUE airspeed. Most airspeed indicators have range markings with flap speeds (white), structural cruise speeds (green), maneuvering speed (blue), smooth air cruise speed (yellow) and Vne (red line). Some have internal lighting. Different aircraft have different speeds, so be sure and select the one for your aircraft.

### Airspeed Indicators

Airspeed Indicators; 3-1/8" and 2-1/4"

These instruments will give the airspeed as an indicated airspeed. Available as 3-1/8" unless indicated as 2-1/4".



Part Number	Color Mark	Outer Scale	Inner Scale	Light	Mfg	Price
IF UMA-16-210-241	3/4/6	MPH	NONE	NO	UMA (2.25")	\$ 260.00
IF UMA-16-211-201	3/4/6	KNOTS	NONE	NO	UMA (2.25")	\$ 260.00
IF UMA-16-310-241D	3/4/6	MPH	KNOTS	NO	UMA	\$ 260.00
IF UMA-16-210-261	7/8	MPH	NONE	NO	UMA (2.25")	\$ 260.00
IF UMA-16-211-242	7/8	KNOTS	NONE	NO	UMA (2.25")	\$ 260.00
IF UMA-16-310-261D	7/8	MPH	KNOTS	NO	UMA	\$ 260.00
IF UMA-16-311-241	7/8	KNOTS	NONE	NO	UMA	\$ 260.00
IF UMA-16-311-241D	7/8	KNOTS	MPH	NO	UMA	\$ 260.00
IF UMA-16-310-244D.9	9	MPH	KNOTS	NO	UMA	\$ 260.00
IF UMA-16-311-203D.9	9	KNOTS	MPH	NO	UMA	\$ 260.00
IF UMA-16-210-243	9	MPH	NONE	NO	UMA (2.25")	\$ 260.00
IF UMA-16-211-202	9	KNOTS	NONE	NO	UMA (2.25")	\$ 260.00
IF UMA-16-210-262	10	MPH	NONE	NO	UMA (2.25")	\$ 260.00
IF UMA-16-211-243	10	KNOTS	NONE	NO	UMA (2.25")	\$ 260.00
IF UMA-16-310-261	10	MPH	NONE	NO	UMA	\$ 260.00
IF UMA-16-311-242	10	KNOTS	NONE	NO	UMA	\$ 260.00
IF UMA-16-310-262D	10	MPH	KNOTS	NO	UMA	\$ 260.00
IF UMA-16-311-242D	10	KNOTS	MPH	NO	UMA	\$ 260.00

## EFIS Section

### Electronic Flight Information Systems

#### RV-12 Dual Display

##### Dual Dynon Option

Optional Dynon D100 display unit to mount on passenger side of the panel. This display may repeat the primary Dynon D180 pilot side display, or may have a different page selected. Most useful for flight training, Kit includes new right side instrument panel, mounting hardware, and plug-in wiring harness. Does not provide full redundancy, as it uses the existing engine probes and magnetometer for the standard EFIS unit.

Installation of this option precludes installation of the standard mapbox. The install kit includes parts to provide alternate storage for the spare fuses, POH etc normally stored in the mapbox.



<b>RV-12 DUALDISPLAY KIT</b>	RV-12 D100 Dual EFIS	\$ 2350.00
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#### RV-12 ADS-B Optional Kit

##### In-Flight Weather and Traffic

This ADS-B option for Skyview-equipped RV-12s allows the pilot to access free broadcast weather, TFR and traffic info in flight with no subscription fees. Includes Dynon ADSB-470 receiver, antenna, and all required wiring and hardware.

May be retrofitted to flying airplanes, or installed during construction.

<b>RV-12 ADS-B KIT</b>	ADS-B Option Kit	\$ 1150.00
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#### RV-12

##### Autopilot & Knob Modules

An optional add-on to the Skyview system, these modules provide a direct way to input settings and control the autopilot, rather than working through the screen menus. Works with both Touchscreen and standard Skyview screens. Kit includes both modules, wiring harness, template to modify center panel, hardware and instructions. Requires operation of the autopilot in Expert mode. Retrofit applications should cut the existing panel using the supplied template to avoid removal of the engine controls.

<b>RV-12 SV AP-KNOB KIT</b>	Autopilot Control Modules	\$ 950.00
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#### RV-12 Dual Skyview Kit

##### Adds Right Side TouchScreen

Kit provides all parts necessary to replace the mapbox panel with an additional Skyview touchscreen. Relocation of the voltage regulator will be necessary if it is located forward of the firewall. Kit includes new POH tray to replace the mapbox, all hardware and wiring harnesses.

New panel is provided unpainted. If this is for an S-LSA installation, cost for the carbon overlay on the new panel (if desired), is an additional \$175.(Call)

Requires the first SkyView screen to be Dynon serial number 6000 or higher. Older screens (shipped prior to mid 2013) draw more power than later ones, which can shorten the service life of the Rotax voltage regulator. Van's has not conducted testing with older screens.

<b>RV-12 AV-SVT DUAL</b>	Skyview Touch Dual Display Kit	\$ 4250.00
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## Miscellaneous Flight Instruments

Vertical Speed Indicators, Altimeters, Compasses, Etc. Many Different Styles, Sizes, and Manufacturers.

### RV-12

#### Autopilot Option

A great safety addition to your RV-12, makes cross country flying more relaxed and less fatiguing. Kit provides all parts and hardware necessary to install a full-featured, dual axis autopilot into the RV-12.

The Dynon AP74 module provides easy control. The pilot can select magnetic heading, GPS ground track, or fly a flight plan stored in the Garmin GPS. Vertical speed and altitude can be selected. Safe airspeeds, bank angle and G load limitations are all included, along with an emergency 180 degree turn capability and voice alerts.

Easy electrical hook up - wiring is already installed in the RV-12 fuselage for the servos.



<b>RV-12 AP74 &amp; SERVOS</b>	Autopilot and Install Kit	\$	1975.00
<b>RV-12 AP SERVO KIT-SV</b>	Autopilot Kit Skyview	\$	1615.00

### Nut Ring

#### Instrument Mounting Kit

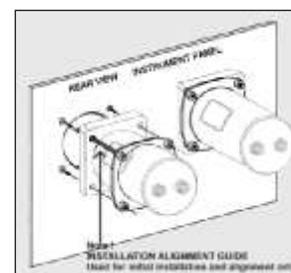
These instrument mounting rings are a clever solution to an old problem. It consists of a mounting plate with threaded inserts that will slide over the body of most instruments to provide a secure, simple and easy way to fasten the instrument to the panel. They include the screws and nylon washers.

The **IF MK01** fits the standard 3-1/8" instruments.

The **IF MK02** fits altimeters and vertical speed indicators which require only 3 mounting nuts.

The **IF MK03** is for the standard 2-1/4" style instruments.

These units are **NOT required** with the 2-1/4" engine gauge series produced and sold by Van's Aircraft as these come with mounting nuts installed.



<b>IF MK01 3 1/8 STD</b>	Standard 3-1/8" Nut Ring	\$	9.00
<b>IF MK02 3 1/8 VSI/ALT</b>	Altimeter / VSI Nut Ring	\$	9.00
<b>IF MK03 2 1/4 STD</b>	2-1/4" style Nut Ring	\$	9.00

### Vertical Speed Indicators

#### Options Available

VSI (vertical speed indicator) available in 3-1/8" or 2-1/4" sizes. Calibrated in 2000 or 3000 fpm (feet per minute).

**IF BC-3**



Part Number	Scale	Light	Size	Price
<b>IF UMA-8-310-20</b>	2000	No	3-1/8"	\$ 215.00
<b>IF UMA-8-210-20</b>	2000	No	2-1/4"	\$ 297.00
<b>IF BC-3</b>	3000	No	3-1/8"	\$ 177.00

## Altimeters

Calibrated in Inches or Millibars

3-1/8" Non-TSO altimeters indicate in feet. Three pointer.  
Kollsman window calibrated in either InHg or millibars.

2-1/4" Non-TSO altimeter 0-20,000, single pointer with InHg setting.  
Typically used as backup for EFIS systems.



<b>IF BG-3E</b>	1/8 inch calibrated in millibars, not lighted	\$ 438.00
<b>IF BG-3B</b>	3 1/8 inch calibrated in inches, not lighted	\$ 438.00
<b>IF UMA 5-410-20</b>	2 1/4 inch calibrated in inches, not lighted	\$ 315.00

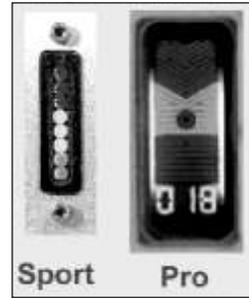
## Angle of Attack Instrument

Visual and Aural Warning for Approaches, and Stalls

### AOA Sport

The Sport is a true AOA instrument and costs much less than the simple stall warning vane and buzzer found on many popular production aircraft.

The display is a three-color eight LED ladder readable in even the brightest cockpits and will retrofit into the most crowded panels. The panel bezel is designed to mount vertically. The display is dimmable, and includes a aural warning.



### AOA Pro

The AOA Pro has all the features of the AOA sport, but has a larger LED display with higher resolution than the AOA Sport.

<b>IF AOA SPORT</b>	Angle of Attack Inst.	\$ 875.00
<b>IF AOA PRO</b>	Angle of Attack Inst.	\$ 1495.00

## Stall Warner Kit RV-7/8/9A

Safety Warning Device

Kit allows simple installation, either to retrofit flying RVs, or during initial wing construction. Simple vane type stall warning device as installed on Van's demo airplanes. Includes a tone generator that can be connected directly to headset jacks for audible stall warning. Included in RV-7/8/9A wing kits from 2010 onward. Kit includes hardware and wiring. It's an inexpensive piece of safety equipment to help you prevent stall/spins, one of the leading causes of light airplane accidents.



<b>STALL WARNER 7/8/9</b>	Install Kit for RV-7/8/9A Stall Warner	\$ 112.00
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## Magnetic Compass

Deluxe Magnetic Compass for Slider Brace Mounting

The "Navigator" by S.I.R.S. Navigation is an attractive "state-of-the-art" compass that delivers extremely accurate readings due to its fully integrated, 4 magnet correction facility. The display is highly visible in all lighting conditions, and is far more legible than standard compasses.

The navigator is fully TSO'd and comes with a 3 year warranty. 12v lighted.

Van's Aircraft is offering this line of compasses as it allows for a simple installation on the roll bar brace in the RV-6/6A, RV-7/7A, RV-9/9A and RV-10. See Part Number = **IF SIRS MOUNT SLIDER**, below.



<b>IF NV2C-12V S.I.R.S.</b>	SIRS Compass/Lighted Northern Hemisphere	\$ 225.00
<b>IF NV2C-12V SO. HEMI.</b>	SIRS Compass/Lighted Southern Hemisphere	\$ 225.00
<b>IF SIRS MOUNT SLIDER</b>	Compass Mount 6/7/9/10	\$ 17.00

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Magnetic Compass  
Panel or Pedestal Mounts



Choose between pedestal or panel mount. All compasses are internally lit.

<b>IF CM-13L</b>	Panel Mount Northern Hemisphere	\$ 110.00
<b>IF CM-24L</b>	Pedestal Mount Northern Hemisphere	\$ 114.00
<b>IF CM-13LS</b>	Panel Mount Southern Hemisphere	\$ 105.00
<b>IF CM-24LS</b>	Pedestal Mount Southern Hemisphere	\$ 114.00

Accelerometer  
G Meter



Gotta know how many Gs you pulled in that last wifferdil. 2-1/4" mounting hole. Range -5 to +10G. 9oz.

<b>IF BJ10-2</b>	Accelerometer	\$ 400.00
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GT-50  
G-Meter, Clock/Timer, Voltmeter and More



**Five Function 2-1/4" Instrument**

- G-Meter: Instantaneous +12/-10 G Range, Records Max/Min G's
- Flight Timer: Automatically Records Flight Time
- Clock: 12 or 24 Hour Format
- Timer/Stopwatch
- Voltmeter

**Features:**

- Large Extreme Operating Temperature Display
- Soft Orange Backlight with Automatic Brightness
- Weighs only 2.5 oz.
- Dimensions: 2-1/4" Panel Cutout - 3/4" depth

**Optional OAT probe available** to add another useful function to the instrument if desired.

<b>IF GT-50</b>	G Meter, Clock, Volts	\$ 169.00
<b>IF GT-50 OAT</b>	Outside Air Temperature probe for the GT-50	\$ 29.00

Ball Indicator  
Slip/Skid Ball Used If You Don't Have a Turn Coordinator



Slip/Skid Ball. If you don't have a Turn Coordinator with the slip/skid ball, you'll need one of these.

<b>IF M-23</b>	Ball Indicator	\$ 127.00
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## Introduction to Avionics

New technologies and demands mean that products and prices are constantly changing. Because avionics is not our major business, we keep only a small stock on hand of some commonly used or RV-specific avionics. Typically, RV builders buy their avionics from companies which specialize in this field, and who have expertise in this rapidly evolving field. Many of these offer "plug and play" panels which can simplify and speed up construction

## ICOM

ICOM's high quality VHF communications transceiver, gives you a vital capability and offers the best.

### ICOM A210

Panel Mounted Com Transceiver



The Icom IC-A210 is a feature-packed panel mounted com transceiver. Includes a built-in voice activated two place intercom with independent volume and squelch controls, 14v or 28v operation, instant 121.5 emergency button, active/standby flip/flop frequency selection, powerful 8 watt transmitter that is 8.3 kHz compatible, and NOAA Weather channels. The IC-A210 also allows you to listen to the standby frequency, and can interface to most GPSs so you can transfer frequencies directly from a GPS database into the radio. The OLED display offers many advantages in brightness, vividness, high contrast, wide viewing angle and response time compared to a conventional display. Auto dimmer function adjusts the display for optimum brightness at day or night.

**Size (WxHxD):** 6 5/16" x 1 11/32" x 10 21/32" (160x34x271 mm). **Weight:** 2.2 lbs.

<b>AV ICOM IC-A210</b>	Com Transceiver	<b>\$ 1290.00</b>
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## Altitude Encoders

Add Mode C capability (altitude reporting) to most transponders.

### Ameri-King Blind Encoder

Works With Most Transponders



Universal altitude encoder, interface cable and static line connectors.

<b>AV AK350</b>	Ameri-King Blind Encoder	<b>\$ 185.00</b>
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## Antennas, ELTs

Several choices of antennas, ELTs are available.

### Rami Antennas

Several Styles to Choose From

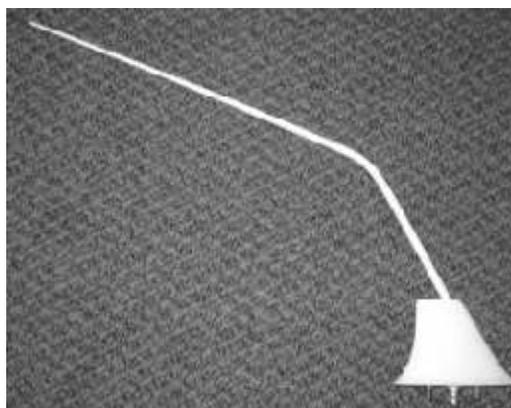
In business since 1957, RAMI has produced millions of antennas for military applications. In 1992, they acquired Antenna Specialist and began producing antennas for general aviation. Since then, they have added to the line of fully TSO'd antennas for all applications.

<b>AV AV-17</b>	VHF Comm Antenna, Bent Whip (most popular for belly mounting)	\$	157.00
<b>AV AV-22</b>	Transponder (Rod)	\$	49.00

### Com Radio Antenna

Bent Com Antenna for Belly Mounting

Aluminum with white polyurethane coating. Female BNC connector.  
Mounts with integral 8-32 studs. (Order "2" AN365-832A nuts to attach).



<b>AV-00008</b>	Bent Com Antenna - Belly Mount	\$	130.00
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### ACK E-04

406MHz ELT

- Accepts GPS position input data from King/Garmin/NMEA 0183 GPS.
- Antenna is swept back 20 degrees, and features a molded plastic base.
- 5 watts @ 406 MHz for 24 hours, and 100Mw @ 121.5MHz for 48 hours.
- New simple plug in audible alert indicator.
- New lithium battery pack offers a 5 year battery life, and makes it

The E-04 ELT is a direct replacement for the E-01 ELT making replacement of the older 121.5MHz ACK type easy.

Complete Install Kit: transmitter, lithium battery pack, external antenna, remote control, mounting tray, retaining straps, plug in audible alert, remote cable, coax cable, install manual.



<b>AV-E-04</b>	ELT, ACK 406 MHZ	\$	650.00
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## Intercoms and Headsets

RVs, like most small aircraft, benefit from a good intercom and headsets. They improve flying comfort, make conversation possible and can even increase safety by reducing noise-induced fatigue and mistakes. There are a lot of choices. The ones in this section have worked well in our demonstrator aircraft and provide good value.

### 4014 Zulu.2 ANR Headset

by Lightspeed

- Quiet and comfortable headset with state-of-the-art ANR and audio quality
- Lightweight, about 13oz
- Bluetooth and cable connections for cellphones and audio devices
- Stereo audio with auto-muting for radio priority
- Dual GA plugs, uses 2x AA batteries



<b>AV ZULU 4014</b>	4014 Zulu.2 ANR Headset (1 EA.)	<b>\$ 850.00</b>
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### FlightCom ANR Headset

Classic ANR

Flightcom's ANR headset features Confor<sup>®</sup> Foam ear seals, and large headband. Precision flex boom with noise canceling electret microphone. Dual volume controls and washable polar fleece headband. Stereo/mono switch and in-line 9 vdc battery holder. Carrying case included. Weight: 17.6 oz.



<b>AV FC-ANR CLASSIC</b>	FlightCom ANR Headset	<b>\$ 350.00</b>
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### FlightCom Headset

Liquid Ear Seals; Ventilated Headband

Liquid filled ear seals, soft ventilated headband. Mono or stereo modes. Rated 24 dB noise reduction. Choose Standard or better Blackhawk.



<b>AV FC-4DX</b>	Standard FlightCom Headset	<b>\$ 115.00</b>
<b>AV FC-5DX</b>	Blackhawk FlightCom Headset	<b>\$ 170.00</b>

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**FlightCom**  
Stereo Intercom Voice Activated

FlightCom Stereo Intercom: voice activated, panel mount. Rectangular faceplates may be used in a horizontal or vertical layout. Features pilot isolate and instant music muting. Jack sets are included.



*Faceplate Options*



**AV FC-403**

Stereo Intercom

\$ 250.00

**Radio Check Monitor**  
Check the Quality of Your Radio Transmissions

Radio Check provides a simple, quick and easy way of checking the quality of your radio transmissions, right from the cockpit. It instantly alerts you to such problems as 'scratchy' transmissions or a stuck mike key. Uses 9v battery, independent of your plane's electrical system. Can be mounted permanently or temporarily in your RV. You can check the quality of your transmissions with a headset plugged into the 1/4 inch jack on the unit, so you hear what others on the same frequency hear.



**AV RADIO CHECK**

Radio Check Device

\$ 59.00



## Software

Software products for your computer.

### KitLog Pro

The Complete Builders Resource Tool

KitLog Pro software is an organizational tool that will allow the builder to create, maintain, display, and archive the complete building process. Simple journal entries and photo placement to each entry will create a detailed, printable journal for inspections, air shows, reference, or even aid in the resale of your aircraft.



- Complete aircraft information: Name, make, type, serial number, engine, etc.
- Daily journal entries accompanied with pictures, descriptions, and build time.
- Customizable categories for entries can be viewed separately. Engine, Avionics, Airframe, etc.
- Detailed weight and balance calculator.
- Expense section to keep track of costs, such as kits, parts, tools, supplies, etc.
- All entries can be printed in notebook format for display or inspection.
- Reference materials: FAA Advisory Circulars helpful for building and testing aircraft.

All required FAA forms for inspection.

#### Computer System Requirements:

Kitlog Pro requires 32-bit or 64-bit running Windows 8.1/8/7/Vista/2000 or XP. and a minimum screen resolution of 800x600, although 1024x768 or greater is highly recommended. A broadband connection to the Internet is also highly recommended. (Kitlog Pro 2.x is not supported by Windows 95/98/ME or NT.) There are currently no plans for a Mac version although Kitlog Pro will run fine using Parrellels or Bootcamp.

**Complete installation instructions come with the CD-ROM, along with technical support from the software manufacturer should you require it. No returns, or refunds will be allowed on opened software.**

CD KITLOG PRO	BUILDER'S LOG	\$	49.95
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## Airframe and Cockpit Accessories

Many misc parts and options to add to your RV.

### Seat Foam Sets

Ready to Upholster Foam Cushions

Van's now stocks seat cushion sets for selected models. These are sold only in sets.

The seat cushion uses a 1" layer of space age Conforfoam for comfort and to provide some measure of protection from hard impacts. Full size upholstery patterns are provided with each cushion set.

Part Number **CA SEAT SET 7/9** fits the RV-6/6A, RV-/7/7A, and RV-9/9A.

It consists of 10 pieces, two each of:

- a seat back
- a "wedgie" that fits on the floor pan
- a seat cushion
- a booster cushion for the vertically challenged
- a lumbar support



Part Number **CA SEAT SET 8** fits the RV-8/8A.

It consists of 7 pieces:

- a seat back for the front and rear
- a seat cushion for the front and rear
- a lumbar support for the front and rear
- one seat wedge

Part Number **CA SEAT SET REAR 10** fits the RV-10 rear seats.

It consists of 6 pieces, two of each:

- a seat back
- a seat cushion
- a lumbar support

Those seat cushion purchasers who are interested in having a professional cover produced for our foam cushion sets may contact **Classic Aero Designs** toll free at 1-866-219-1087 or may view Classic Aero Designs web site at:

[www.classicaerodesigns.com/vans/](http://www.classicaerodesigns.com/vans/)

The owner of Classic Aero, Luke Doughton, is capable of supplying a complete covering service with the fabric of your choice.

In addition, when you order the foam cushion sets from Van's, you may initiate direct shipping from Van's to Classic Aero Designs by selecting: "**SHIP TO CLASSIC AERO**". This item is listed at \$0.00 but you will be billed for the shipping charges to Classic Aero Designs.

<b>CA SEAT SET 7/9</b>	FOAM/PATTERN 2 SEATS - fits RV-6/6A, RV-/7/7A, and RV-9/9A	\$	320.00
<b>CA SEAT SET 8</b>	FOAM/PATTERN 2 SEATS - fits RV-8/8A	\$	320.00
<b>CA SEAT SET REAR 10</b>	FOAM/PATTERN 2 SEATS - fits RV-10 rear seats	\$	331.00
<b>SHIP TO CLASSIC AERO</b>	I have contacted Classic Aero and I would like my Seat Cushion Sets shipped directly to Classic Aero. I understand that I will be billed for the shipping charges to Classic Aero Designs.	\$	0.00

### Baggage Tie Downs

Secure Those Pesky 'Floating' Baggage Items

The photo shows two units, one with clamp/ring installed in the base, one with the clamp/ring removed to show more detail.

The parts are made of anodized 6061 T-6 aluminum with a stainless ring. Weight of one complete unit is only 1.5 ounces.

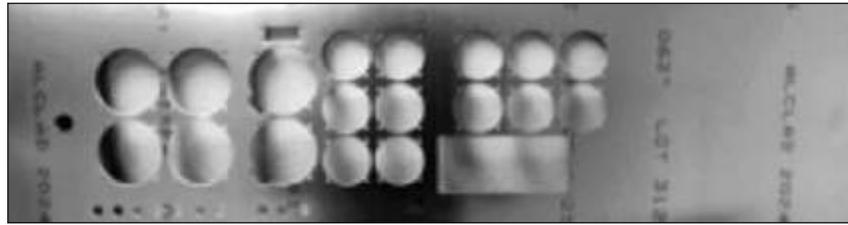
Attach base to baggage floor or other areas with supplied screws and nuts. Clamp can be removed from base easily if desired.



<b>CA BAGGAGE TIE DOWN</b>	Complete Unit Base & Clamp	\$	15.50
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**Prepunched Instrument Panel**  
Prepunched Instrument Panel for the RV-6/6A

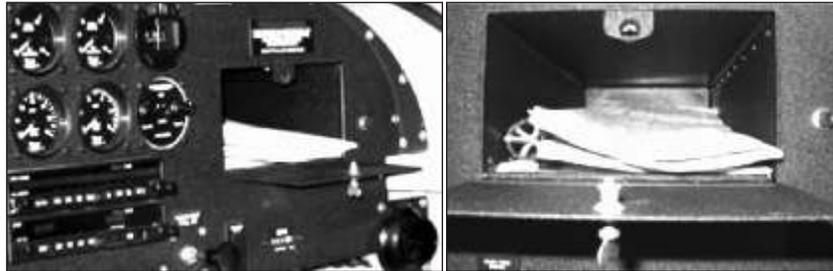
All holes are punched for typical VFR flight instruments, engine instruments, avionics, switches/breakers, and you have room for the map box option.



<b>F-6103V</b>	6/6A VFR PANEL	<b>\$ 60.00</b>
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**Map Box**  
Prepunched Mapbox Kit

This map box can be installed in either a completed aircraft or in an aircraft under construction. Designed for the RV-6/6A, 7/7A, 8/8A, 9/9A. 7-3/8" x 4-3/4" of open panel space is required. Box dimensions 6-1/4" x 3-7/16" x 12". The 6-1/4" is also the width of most avionics, which can be handy. Installed weight is 0.80 lbs. The kit comes with all the necessary hardware, and an accurate template for cutting the hole in the panel.



<b>MAP BOX KIT</b>	PANEL MOUNT ALL ACFT	<b>\$ 35.00</b>
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**RV-12 Storage Kit**  
POH/Chart Trays

These parts can be used to increase the storage capacity of the RV-12 to keep charts and the POH in convenient and easily accessible areas. POH tray mounts under right side panel, chart pocket on forward fuselage tunnel cover. Simple retrofit on flying airplanes.



<b>RV-12 TRAY KIT</b>	POH/Chart Storage Kit	<b>\$ 30.00</b>
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**RV-6/6A Shoulder Harness Anchor Cables**  
Now Standard in Kit; Upgrade Older Fuselage Kits

The RV-6/6A uses a stainless steel cable with a swaged stainless end to connect the shoulder harnesses to the longeron in the rear fuselage. These are currently included in the fuselage kit, but we make them available for kits shipped before they became standard. Available as a set of 2 cables, does one airplane.

<b>F-6114</b>	Shoulder Harness Anchor Cables	<b>\$ 150.00</b>
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## Seat Belts and Shoulder Harnesses

Side-by-Side; Tandem Front and Rear Seat Assemblies

All sets with "X" in the part number are 5 point (includes crotch strap) with all aluminum hardware. Sets without "X" in the part number are 4 point (no crotch strap) with steel hardware and are available in black and grey only. All belts meet certified standards. Lap is double adjustable to keep the buckle centered. Individual adjustable straps fit over each shoulder. Quick, easy pull-up buckle release.



If you are installing 5 point harnesses in an RV-7/7A or RV-9/9A, order installation kit: PN# CROTCH STRAP KIT. This kit is included in RV-7/9 fuselage kits shipped after December 2008.

It is not possible to add a crotch strap to the 4 point harnesses later. The CROTCH STRAP KIT is brackets only: no straps included.

**The seat belts are sold as single seat sets. Side by side or Tandem airplanes will require 2 of each.**

<b>SBH-6X BLACK</b>	RV-6/7/9/12 5pt. belt and harness	\$ 207.00
<b>SBH-6X DARK BLUE</b>	RV-6/7/9/12 5pt. belt and harness	\$ 199.00
<b>SBH-6X CLOUD GREY</b>	RV-6/7/9/12 5pt. belt and harness	\$ 207.00
<b>SBH-6X TAUPE BROWN</b>	RV-6/7/9/12 5pt. belt and harness	\$ 207.00
<b>SBH-TT6 BLACK</b>	RV-6/7/9 4pt. belt and harness	\$ 102.00
<b>SBH-TT6 GREY</b>	RV-6/7/9 4pt. belt and harness	\$ 102.00
<b>SBH-34X BLACK</b>	RV-3 front, RV-4/8 rear seat 5pt. belt and harness	\$ 207.00
<b>SBH-34X DARK BLUE</b>	RV-3 front, RV-4/8 rear seat 5pt. belt and harness	\$ 207.00
<b>SBH-34X GREY</b>	RV-3 front, RV-4/8 rear seat 5pt. belt and harness. Grey color shade may vary slightly between front and rear seatbelt sets	\$ 207.00
<b>SBH-TT34 BLACK</b>	RV-3 front, RV-4/8 rear seat 4pt. belt and harness	\$ 106.00
<b>SBH-TT34 GREY</b>	RV-3 front, RV-4/8 rear seat 4pt. belt and harness	\$ 106.00
<b>SBH-4FX BLACK</b>	RV-4/8 front seat 5pt. belt and harness	\$ 207.00
<b>SBH-4FX DARK BLUE</b>	RV-4/8 front seat 5pt. belt and harness	\$ 207.00
<b>SBH-4FX GREY</b>	RV-4/8 front seat 5pt. belt and harness. Grey color shade may vary slightly between front and rear seatbelt sets	\$ 207.00
<b>SBH-TT4F BLACK</b>	RV-4/8 front seat 4pt. belt and harness	\$ 104.00
<b>SBH-TT4F GREY</b>	RV-4/8 front seat 4pt. belt and harness	\$ 104.00
<b>SBH-TT10F BLACK</b>	RV-10 Front Seat	\$ 103.00
<b>SBH-TT10F GREY</b>	RV-10 Front Seat	\$ 103.00
<b>SBH-6X BLACK</b>	RV-10 Back Seat w/5pt.	207.00
<b>SBH-TT6 BLACK</b>	RV-10 Back Seat	\$ 102.00
<b>SBH-TT6 GREY</b>	RV-10 Back Seat	\$ 102.00
<b>CROTCH STRAP KIT</b>	5th pt. installation kit, RV-7/7A, RV-9/9A both seats	\$ 32.00

## Tilt-Up Strut Kit

Now Standard in Kit; Upgrade Older RV-6/6A Finish Kits

Easy to install during construction or as a retro-fit to a finished airplane. Stabilizes tilt-up RV-6/6A canopy in the raised position. Over-center action helps soften opening, closing. Hardware and instructions included in strut kits. Standard in finish kits shipped since February 1995. If one of the struts is damaged, we sell single replacements without mounting hardware.



<b>6/6A TIP-UP STRUT</b>	Strut Kit	\$ 75.00
<b>C-690</b>	Single Strut	\$ 33.00

### Custom Stick Grips

Made From Beautiful Hardwoods

Made from beautiful hardwoods. Right or left hand and ambidextrous. Three styles: the STANDARD, with a single switch, usually a push-to-talk. The MASTER, with two switches: one for PTT and a "coolie hat" for electric elevator and aileron trim. The AMBI, ambidextrous wood grip with 7/8 bore, suitable for RV-10/12 (both sides), and passenger sticks in RV-4/6/7/8/9.



Switches included in the Standard and Master grips. No switch with Ambi, uses PTT included in RV12 kit.

<b>GRIP 1" MASTER LEFT</b>	Side-by-side Left Seat	\$ 119.00
<b>GRIP 1" MASTER RIGHT</b>	Tandem Front Seat	\$ 119.00
<b>GRIP 7/8" MASTER RT</b>	Side-by-side Right Seat, Tandem Rear seat	\$ 119.00
<b>GRIP 1" STANDARD LEFT</b>	Side-by-side Left Seat	\$ 53.00
<b>GRIP 1" STANDARD RT</b>	Tandem Front Seat	\$ 53.00
<b>GRIP 7/8" STANDARD RT</b>	Side-by-side Right seat, Tandem Rear seat	\$ 53.00
<b>GRIP 7/8" AMBI</b>	Grip 7/8" Ambidextrous	\$ 36.00

### Molded Stick Grips

Injection Molded Black Nylon

Military style includes one hole for "coolie hat" switch. Additional hole may be drilled for PTT switch. Switches not included. Right hand only.



<b>GRIP 1" RT HAND 2SW</b>	Molded Stick Grip	\$ 45.00
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### Grip Switches

Push to Talk-(PTT) and 4 Way Trim-(Coolie Hat) Switches

Switches for grips.

<b>GRIP SWITCH</b>	Push to talk switch and cover	\$ 13.50
<b>GRIP SWITCH COVER</b>	Push to talk switch cover only	\$ 7.25
<b>ES MST5-4-SW</b>	4 way trim switch-(Coolie Hat)	\$ 74.00

### Cowl Inlet Plugs

Designed to Fit Your RV

Cowl plugs are designed to fit the air intakes of your RV. The plugs fit snugly into each intake (and the scoop, if present), and provide protection against the elements and bird/rodent nesting. Each set of plugs is manufactured from high quality, marine grade vinyl and bonded nylon thread for the stitching and front piping of the plugs. Linking nylon lanyards are attached to all plugs, and a "remove before flight" flag is attached to the lanyard between the right and left plugs. As an added safety feature, two bright red visibility flags are connected to each plug, which can be seen from the cockpit, and the linking lanyards are made to go over a prop blade, which will eject the plugs if overlooked on the preflight.



<b>COWL PLUG SCOOP</b>	RV-6/7/9 - fits all (I)O-320/360 cowls with scoop	\$ 59.95
<b>COWL PLUG HORIZ</b>	RV-7/8 - fits RV-6/7/8/9 airplane cowls without scoop	\$ 59.95
<b>COWL PLUG RV-10</b>	RV-10 - fits all RV-10 cowls with (I)O-540 engine	\$ 59.95

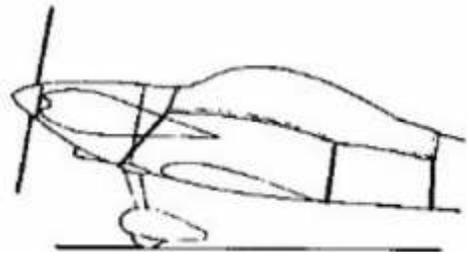
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### Canopy Covers Two Styles of Canopy Cover

Thick cover for continuous use or thin lightweight for travel use. Traditional extra-thick covers protect your expensive avionics and custom upholstery. Made especially for RVs. Soft, non-scratching liner with tough reflective outer layer. Nylon fittings won't scratch paint or Plexiglas. Includes storage bag. Thin lightweight cover sheds dew and rain, yet lets moisture evaporate. Small, light package for travel.



The light weight RV-12 cover has detachable straps and embroidered RV-12 logo.

<b>CANOPY COVER RV-4</b>	RV-4 Canopy Cover	\$	293.00
<b>CANOPY COVER RV-8</b>	RV-8/8A Canopy Cover	\$	420.00
<b>CANOPY COVER RV-9/9A</b>	RV-6/7/9A Canopy Cover	\$	390.00
<b>CANOPY COVER LW-3</b>	RV-3 Light weight cover	\$	170.00
<b>CANOPY COVER LW-4</b>	RV-4 Light weight cover	\$	185.00
<b>CANOPY COVER LW-6/EXT</b>	Light weight cover post-95 RV-6/6A, 7/7A, 9/9A	\$	185.00
<b>CANOPY COVER LW-8</b>	RV-8/8A Light weight cover	\$	185.00
<b>CANOPY COVER LW-10</b>	RV-10 Light weight cover	\$	285.00
<b>CANOPY COVER LW-12</b>	RV-12 Light weight cover	\$	210.00

### Sliding Canopy Latch For RV-6/7/8/9 Sliding Canopies

Latch for sliding canopies on RV-6/7/8/9. Installs on roller weldment, requires hole(s) to be drilled in roller track. Prevents canopy from opening all the way, especially useful on RV-8s where the canopy may not be reached when the pilot is strapped in. Spring loaded pin allows one-handed operation.



<b>CA CANOPY LATCH</b>	Sliding Canopy Latch	\$	100.00
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### Canopy Lock Lock for Sliding Canopies

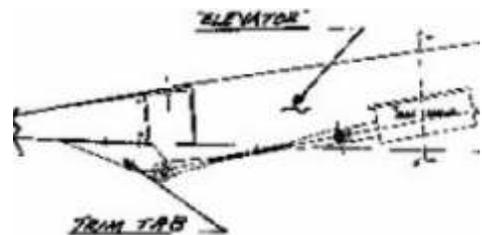
Lock for sliding canopies on RV-6/7/8/9. Installs on slider track on rear fuselage. Can also be used to secure the canopy in a partially open position for hot days. Allows use of canopy cover. Supplied with two keys (cannot be matched to mag. switch key).



<b>CA CANOPY LOCK</b>	Sliding Canopy Lock	\$	134.00
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### Electric Elevator Trim Kit Add Electric Elevator Trim to Your RV

Electric elevator trim can be added to most elevators (except the RV-3). This removes the trim cable from the cockpit. Usually installed during initial construction, but with careful work may be retro-fitted to finished aircraft. A small servo (**ES MSTs-8A**) mounted in the elevator moves the standard trim tab. Elevator must be rebalanced after installation. Weighs about the same as manual trim, but may move the cg slightly aft. Trim works best when controlled from the stick grips (**GRIP 1" MASTER LEFT** or **RIGHT**) above. In addition, a servo relay deck (**ES MSTs SRD**) is needed when used with the GRIPS and possibly a servo speed control (**ES MSTs-SSC**) unit.



**Kits include all hardware and servo system.**

<b>EE-KIT/SERVO</b>	Electric elevator trim system for RV-6/6A/7/7A/8/8A pre-punched kits.	\$	325.00
<b>EE-KIT/SERVO (NON-PP)</b>	Electric elevator trim system for ALL non pre-punched kits.	\$	325.00
<b>EE-KIT/SERVO-1</b>	Electric elevator trim system for the RV-9/9A kits.	\$	325.00

### Electric Aileron Trim Kit

Add Electric Aileron Trim to Your RV



**EA-KIT & EA-KIT/SERVO:** A servo mounted in the aileron (RV-4, 6/6A) drives a small tab mounted on the trailing edge of the aileron (pictured). These units are usually installed during initial construction. Current builder/pilots of the RV-4 and 6/6A can adapt the spring bias systems for the 8/8A and 7/9A respectively, which is a simpler installation than modifying the aileron.

**EA-8 KIT & EA-7/9 KIT:** The RV-7/7A,8/8A,9/9A, use a different style of electric aileron trim. The servo is mounted below the seating areas of the airframe. It is a spring bias system and applies trim forces directly to the control column and can be retrofit or installed during fuselage manufacture. No external tabs are required.

**EA-10 KIT:** A spring bias system as above, but the servo mounts in the wing, and is attached to the aileron pushrod. Can be retrofitted to flying airplanes.

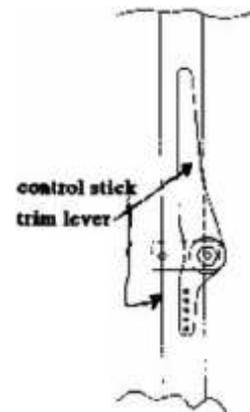
<b>EA-KIT</b>	Aileron servo mount and tab for RV-4,6/6A	\$ 45.00
<b>EA-KIT/SERVO</b>	Aileron servo mount, tab and servo for RV-4,6/6A	\$ 320.00
<b>EA-8 KIT</b>	Complete servo and spring bias assembly for RV-8/8A	\$ 320.00
<b>EA-7/9 KIT</b>	Complete servo and spring bias assembly for RV-7/7A,9/9A	\$ 320.00
<b>EA-10 KIT</b>	Complete servo and spring bias assembly for RV-10	\$ 320.00

### Manual Aileron Trim Kit

Trim Kits for Balancing Due to Fuel Burn and Loading

Kits are usually ordered with the Fuselage Kit, but are easily fitted to the finished aircraft. A real convenience for cross-country flying, trimming out uneven fuel burns, etc. Simple light springs connect to the aileron controls, unnoticeable through the stick. Installs entirely within the cabin. No need to remove wings or ailerons. Small lever mounts on the stick (RV-3,4), between the seats. The manual aileron trim mechanism on the RV-8/8A is a sidewall mounted adjustment to the left of the pilot's seat. It is a spring bias system that manually applies trim forces directly to the control column. RV-7/7A,9/9A is the same however, it mounts between the pilot and passenger's seats.

This kit is NOT intended to compensate for aircraft with rigging problems. See Chapter 15 of Construction Manual to balance aircraft prior to installing trim.



<b>AIL-T43</b>	Manual aileron trim for RV-3,4	\$ 16.00
<b>AIL-T6</b>	Manual aileron trim for RV-6/6A	\$ 44.00
<b>AIL-T8</b>	Manual aileron trim for RV-8/8A	\$ 60.00
<b>AIL-T79</b>	Manual aileron trim for RV-7/7A,9/9A	\$ 46.00

### Electric Flap Conversion Kits

Convert From Manual to Electric Flaps

Convert from manual to electric flaps in the RV-4 and RV-6/6A. Standard on the RV-10/7/8/9A and the RV-6/6A Quickbuilds. Eliminates the passenger leg/flap handle interface (RV-4) or the "where do I put the elbow?" (RV- 6/6A)! Simple, reliable, light motor/worm gear unit with built-in clutch raises or lowers the flaps in about 7 seconds. The complete kit includes a new flap actuator weldment. Current flap actuator can be modified by welding provided components to existing weldment. Installation adds about 1-1/2 to 2 pounds to aircraft weight. This is one electric option endorsed by Van!

Not available for the RV-3.



<b>RV-4 EF-A</b>	RV-4 Flap conversion using manual flap weldment	\$ 490.00
<b>RV-4 EF-C</b>	RV-4 Flap conversion with replacement weldment	\$ 605.00
<b>RV-6 EF-A</b>	RV-6/6A Flap conversion using manual flap weldment	\$ 450.00
<b>RV-6 EF-C</b>	RV-6/6A Flap conversion with replacement weldment	\$ 605.00

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## Safety-Trim

Intelligent Servo Controllers

Safety-Trim is an electronic speed control and switching system for use with standard Ray-Allen type electric trim servos typically used in RVs.

Safety-Trim provides the following features:

- Run-away trim prevention with its unique time limited operation of the trim servo(s).
- Two user adjustable trim speeds, controllable via a flap position switch, airspeed switch or a panel mounted switch (not included).
- Simple wiring to pilot and co-pilot trim switches, no other relay decks, or diode matrix is required to have multiple trim switches. Compatible with standard "hat switches" and momentary contact switches (not included).
- Available in 1 axis and 2 axis models. Operates from 10-30 volts, and is reverse polarity and short circuit proof.
- Optional Accessories include an 8ft. pre-made wiring harness with power switch and an air speed switch.



<b>ES ST ASW-1</b>	Trim Airspeed Switch	\$	49.00
<b>ES ST-1 HARNESS</b>	1 Axis Trim Harness	\$	65.00
<b>ES ST-1-12V-2SP</b>	1 Axis Safety Trim	\$	245.00
<b>ES ST-2 HARNESS</b>	2 Axis Trim Harness	\$	85.00
<b>ES ST-2-12V-2SP</b>	2 Axis Safety Trim	\$	345.00

## RV-10 Flap/Trim Control

RV-10 Flap Position System w/trim compensation

Features:

- Flap Reflex Position for cruise flight
- Fully Automatic Flap Positioning
- "Automatic Elevator Trim" available with electric trim systems
- Step and Proportional Modes
- 12V & 24V Compatible
- Compatible with most motors and indicators
- Set-Up is fully user programmable
- One button programming
- No limit switches to install

Includes Control Module, Position Sensor, Relay Board and Programming Switch



<b>ES FLAP/TRIM REFLEX</b>	RV-10 Flap Control	\$	370.00
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## Step Kits

External Cabin Steps for the RV-6A, 7A, and 9A

It can be quite a step up to the wing walk of the RV-6A, 7A, or 9A.

This 4130 steel weldment is strong and low drag in design. Not a difficult installation on a finished aircraft, but does require removing the baggage floor. Kit includes instructions, step and all necessary hardware. Available for Left (pilot) or Right (passenger) side of fuselage.

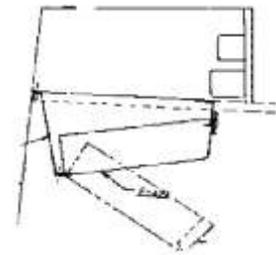


<b>STEP KIT LEFT</b>	Pilot side cabin step kit	\$	95.00
<b>STEP KIT RIGHT</b>	Passenger side cabin step kit	\$	95.00

### RV-4 Forward Baggage Compartment

Suspended Baggage Compartment Under Instrument Panel

Hinged aluminum "glove box" tray drops down under the instrument panel to provide handy stowage for charts, sunglasses, etc. Tall pilots may find it interferes with their knees and it may not work with some avionics/panel installations.



<b>BAG-KIT</b>	RV-4 baggage compartment	\$	60.00
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### Fuel Pick-Up Tube

Prefab Unit for Replacing Customer Built Units Inside Tanks

Installs inside fuel tank, replacing scratch built unit shown on plans. Complete with AN fitting and stainless steel finger screen.



<b>F FUEL TANK PU W/SCRN</b>	Rigid fuel pick-up tube	\$	16.50
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### Custom Non-Skid Wing Walks

Self-Adhesive RV Specific Wing Walk

Self-adhesive non-skid material has low profile but high grip surface. Aircraft type (RV-4, RV-6, RV-8A, etc) is cut from the forward portion, allowing the lettering to show in the aircraft color. 9.5 inches by 26.5 inches long. Any color you want as long as it is Black. Tandem aircraft require 1 each, side-by-side aircraft require 2 each.



<b>WING WALK -4BLK</b>	Black non-skid wing walk for RV-4	\$	24.50
<b>WING WALK -6BLK</b>	Black non-skid wing walk for RV-6	\$	24.50
<b>WING WALK -6ABLK</b>	Black non-skid wing walk for RV-6A	\$	24.50
<b>WING WALK -7BLK</b>	Black non-skid wing walk for RV-7	\$	24.50
<b>WING WALK -7ABLK</b>	Black non-skid wing walk for RV-7A	\$	24.50
<b>WING WALK -8BLK</b>	Black non-skid wing walk for RV-8	\$	24.50
<b>WING WALK -8ABLK</b>	Black non-skid wing walk for RV-8A	\$	24.50
<b>WING WALK -9BLK</b>	Black non-skid wing walk for RV-9	\$	24.50
<b>WING WALK -9ABLK</b>	Black non-skid wing walk for RV-9A	\$	24.50
<b>WING WALK 10 LEFT</b>	Left Side Wing Walk for RV-10	\$	48.00
<b>WING WALK 10 RIGHT</b>	Right Side Wing Walk for RV-10	\$	48.00
<b>WING WALK -12BLK</b>	Black non-skid wing walk for RV-12	\$	19.50
<b>WING WALK 14 LEFT</b>	Left Side Wing Walk for RV-14	\$	48.00
<b>WING WALK 14 RIGHT</b>	Right Side Wing Walk for RV-14	\$	48.00
<b>WING WALK BLACK</b>	Black generic non-skid wing walk	\$	21.50

### Stainless Steel Pitot Tube

Prefabricated Pitot Tube and Cover

Resists corrosion and some prefer its appearance. Retrofit finished aircraft easily without modifications.



<b>VENT P-100</b>	Stainless pitot tube and red cover	\$	17.00
<b>VENT P-110</b>	Red pitot cover	\$	4.00

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## Fuel Selector Valves

### Alternative and Replacement Fuel Selector Valves

Beautifully crafted valves made by RV (and Airbus component) builder Andy Phillips. Lifetime materials, compatible with all fuels. The **FS20x7T** valve has a 90 degree swing and a positive "lift and turn" feature to prevent inadvertently selecting the off position. 90 degree AN6 elbows are installed to facilitate typical RV installations.

The **FS20x20-3** valve has the same features but is a dual valve with 180 degree swing, 3/8 NPT ports for fuel supply and 1/4 NPT ports for fuel return to the selected tank. Usually used with automotive engines that require fuel return to the tank, not required for typical aircraft fuel injection systems.

Kit supplied fuel selector valve for the RV-3/4/6/7/8/9. This 4 port valve can be plumbed for either 90 degree or 180 degree tank selection. Replacement of the older 3 port valve (used on early RV-3/4/6 - no longer available) will require modifying fuel lines.

The RV-10 and RV-12 use different fuel valves to those above. See part numbers below.

### Optional Fuel Valve Selector Lever

Part number **FUEL VALVE LEVER**

Replacement for stock lever on fuel valves supplied in kits. Keyed so it will work only on valves that use the long arm of the lever as a pointer. Will not work on valves installed prior to 2000 that typically use the small pointer on the lever to indicate the tank in use. Red Anodized finish.

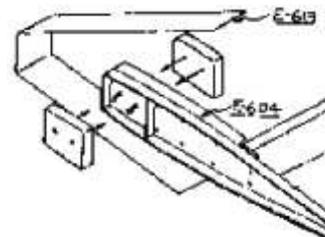


<b>FUEL VALVE FS 20X7T</b>	Andair 90 Degree "lift and turn" fuel valve	\$	215.00
<b>FUEL VALVE FS 20x20-3</b>	Andair 180 Degree dual "lift and turn" fuel valve	\$	365.00
<b>FUEL VALVE</b>	Standard brass-on-nylon 90/180 degree 4 port valve	\$	53.00
<b>VA-178G</b>	RV-10 Fuel Valve	\$	53.00
<b>FUEL VALVE 4161089</b>	RV-12 Fuel Valve	\$	12.50
<b>FUEL VALVE LEVER</b>	Fuel Valve Selector Lever - Red Anodized finish	\$	34.00
<b>FUEL VALVE PLATE</b>	Fuel Valve Indicator Plate	\$	39.00

## Counterweights

### Precast Lead Counterweights for Elevators and Rudder

Replacement pre-cast lead counterweights for the control surfaces on the RV aircraft. Multiple sizes exist so caution should be used when ordering. Consult your original kit picking ticket and blueprints for exact part number for your application.



<b>E-614</b>	Counterweights for 0.016 Elevator Skins Early RV-6/6A, RV-9/9A, RV-10	\$	15.65
<b>E-614-020</b>	Counterweights for optional 0.020 Skins, RV-6/6A, Early RV-7/7A, RV-8/8A, All Rudders	\$	17.00
<b>E-714</b>	Counterweight for 0.020 Skins, Late Model RV-7/7A and RV-8/8A.	\$	20.80

## RV-4 Canopy Safety Latch

### Safety Latch for RV-4 Canopy

A couple of RV-4 pilots have proven that the RV-4 can be flown and landed after the canopy has come off in flight, so why repeat the experiment? They won't! Standard equipment on kits since 1989. We encourage the installation on any RV-4 that does not have one.



<b>BAG 951</b>	RV-4 canopy safety latch	\$	15.60
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**Fuel Valve Indicator Plate**  
Indicates Tank in Use

Engraved plate attaches under fuel valve lever to indicate tank in use. Can be fitted to all RVs (except the RV-10 & 12) using standard valve supplied in kit. Mounting hardware not supplied; may vary depending on installation.



<b>FUEL VALVE PLATE</b>	Fuel Valve Indicator Plate	\$	39.00
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**Koger Sunshades**

Convenient Overhead Retractable Sunshade for RV-6/7/9/12

A convenient overhead retractable sunshade for either the tip-up or sliding canopy in RVs with side-by-side seating. The same bubble canopy that gives such good visibility can get uncomfortably hot in the direct sun. Developed by RV builder Ralph Koger, this retractable sunshade makes summer flying much more pleasant! Lightweight gray fabric. Slider type attaches with screws, tip-up type with supplied tape. The larger "Super Slider" offers 4 inches more width and 10" more length if increased coverage is desired in sliding canopy RV-6/7/9 airplanes.



For the RV-14 canopy, the KOGER SHADE TU-WIDE is suggested. This may also be used in the 6/7/9 tip-up canopies if a wider shade is desired (adds about 2" each side to the standard tip-up shade).

<b>KOGER SHADE -6 SLIDER</b>	Retractable shade for side-by-side sliding canopy	\$	160.00
<b>KOGER SHADE -6 SUPER</b>	SUPER SLIDER Retractable shade for side-by-side sliding canopy	\$	230.00
<b>KOGER SHADE -6 TIP-UP</b>	Retractable shade for side-by-side tip-up canopy	\$	160.00
<b>KOGER SHADE TU-WIDE</b>	Retractable shade for 6/7/9/12/14 tip-up canopy	\$	195.00

**Aero-Shields**  
Sunshades

Shades provide 86% UVA and 86% thermal protection to reduce the harmful effects of the sun. Still provides visibility to see outside. Protect yourself and your aircraft. Attaches with suction cups which allow easy repositioning. These screens can be left in place day or night, while your plane is parked or flying. Durable, flexible, and light weight fabric. Rolls for compact storage. Full set (8 pieces) available for the RV-10 (includes 2 general purpose shields). RV-8/8A overhead protection (4 pieces). One piece general purpose shield (9"x16") for spot protection on any RV.



<b>CA SUNSHADE</b>	Sunshade 9"X16"	\$	30.00
<b>CA SUNSHADE 8/8A</b>	Sunshade set of 4 pieces for RV-8/8A	\$	110.00
<b>CA SUNSHADE SET 10</b>	Sunshade set of 8 pieces for RV-10	\$	225.00

**Rear Seat Rudder Pedals**

Optional Rudder Pedals for the Passenger in Tandem Models

Although neither the RV-4 nor the RV-8/8A are intended to be soloed or landed from the rear seat, many pilots like to share the flying experience with their passengers. These rudder pedals may be retrofitted to finished aircraft. No provision for brakes. Kit includes pedals, mounting hardware and instructions.

<b>RSR-PED</b>	RV-4 rear seat rudder pedals	\$	140.00
<b>RSR-PED-8</b>	RV-8 rear seat rudder pedals	\$	130.00
<b>RSR-PED-8A</b>	RV-8A rear seat rudder pedals	\$	250.00

**Side-by-Side Dual Brake Kit**

Optional Brakes for the Passenger in the RV-6/6A, RV-7/7A, RV-9/9A

Allows complete control from either seat. Kit includes master cylinders, hoses and all hardware.



<b>BRAKE DUAL OVERHEAD</b>	Passenger brakes for overhead mounted rudder bars (RV-6/6A, RV-7/7A, RV-9/9A)	\$	230.00
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### RV-12 Wheel Fairing Kit

Streamline your gear

Kit supplies wheelpants for all three wheels, and a fairing for the nose gear leg. All instructions, brackets and hardware included.

Flight tests indicate a 4 knot speed gain compared to unfaired gear, and the fairings make a good looking airplane even better. Also keeps mud from coating the underside of the wings and fuselage if you fly off wet grass or dirt. Arrive faster and cleaner.



<b>RV-12 WHL FAIRING KIT</b>	RV-12 Wheel Fairing Kit	<b>\$ 685.00</b>
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### Gear Leg Intersection Fairings

For the Fuselage and Wheel Pants

No more messing around with clay! Fairings now available ready to be fitted to the fuselage and wheel pants. They will still require some trimming, filling and sanding, but save hours of work. Requires some #6 or #8 screws and nutplates to install, 2 or 3 per fairing usually sufficient (not included). No instructions, refer to builder's manual.

Only available as per the list below.



<b>U-713-180</b>	UPPER NOSE GEAR intersection fairing for VERTICAL INDUCTION COWLS	<b>\$ 38.00</b>
<b>U-716-L</b>	UPPER LEFT intersection fairing for the RV-7A	<b>\$ 38.00</b>
<b>U-716-R</b>	UPPER RIGHT intersection fairing for the RV-7A	<b>\$ 38.00</b>
<b>U-717-L</b>	LOWER LEFT intersection fairing for the RV-7A	<b>\$ 38.00</b>
<b>U-717-R</b>	LOWER RIGHT intersection fairing for the RV-7A	<b>\$ 38.00</b>
<b>U-718-L</b>	UPPER LEFT intersection fairing for the RV-6 and RV-7	<b>\$ 38.00</b>
<b>U-718-R</b>	UPPER RIGHT intersection fairing for the RV-6 and RV-7	<b>\$ 38.00</b>
<b>U-719-L</b>	LOWER LEFT intersection fairing for the RV-6 and RV-7	<b>\$ 38.00</b>
<b>U-719-R</b>	LOWER RIGHT intersection fairing for the RV-6 and RV-7	<b>\$ 38.00</b>
<b>U-819-L</b>	LOWER LEFT intersection fairing for the RV-8	<b>\$ 38.00</b>
<b>U-819-R</b>	LOWER RIGHT intersection fairing for the RV-8	<b>\$ 38.00</b>
<b>U-916-L</b>	UPPER LEFT intersection fairing for the RV-9A	<b>\$ 38.00</b>
<b>U-916-R</b>	UPPER RIGHT intersection fairing for the RV-9A	<b>\$ 38.00</b>
<b>U-917-L</b>	LOWER LEFT intersection fairing for the RV-9A	<b>\$ 38.00</b>
<b>U-917-R</b>	LOWER RIGHT intersection fairing for the RV-9A	<b>\$ 38.00</b>

### Firewall Recess Kits

Stainless Steel Recess in Firewalls for Filters/Governors

If you are installing a constant speed prop and your engine has an accessory case mounted governor (most do), you will need to put a recess in the firewall (except RV-8/8A). Necessary for most spin-on oil filters too. We suggest doing it during initial construction. These kits provide the stainless steel material and instructions for the job.



<b>F-601K-1</b>	Folded and ready to rivet box for insertion in RV-6/6A/7/7A/9/9A	<b>\$ 38.00</b>
<b>SS304-26GAX10X12</b>	Flat sheet of stainless steel for covering hole in firewall. RV-6/6A/7/7A/9/9A	<b>\$ 5.00</b>
<b>SS304-4-26GA</b>	Flat sheet of stainless steel and pattern for RV-4	<b>\$ 5.00</b>

### Wheel Fairing Kits

#### Low Drag Two Piece Wheel Pants and Mounting Kit

These fiberglass fairings are split vertically, allowing the front half to be removed for access to the wheel. They are deeper and provide more complete wheel coverage and a tighter fit to the tire. This gives less drag, but may be subject to more damage on rough fields. Includes all parts and installation hardware for two main wheels. Standard on Finish Kits since the beginning of 1999. Not for nose wheels.

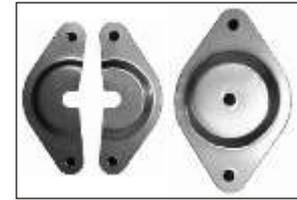


<b>WHL FAIRING KIT,PRFLT</b>	Wheel pants for RV-8 flat bar gear	\$	375.00
<b>WHL FAIRING KIT,PRROD</b>	Wheel pants for RV-3/4/6/6A/7/7A/8A/9/9A round rod gear	\$	375.00
<b>WHL FAIRING KIT,NOSE</b>	Wheel pant for 6A/7A/8A/9A Nose Gear	\$	140.00

### Firewall Shields

#### Stainless Steel Shields for Protecting Grommets in Firewall

Stainless steel shields protect firewall wiring grommets from excessive heat. Available in three sizes of dimples for different grommets (3/4", 1" and 1-1/4") and 4 sizes of center holes (2-piece only). Two piece easily installed around wires already in place. Use single piece when wires can be threaded through. Single piece center holes may be drilled to desired size. Both styles have 5/32 inch mounting holes.



Part Number	Grommet OD	Grommet ID	Qty Pieces	Price
<b>SSFS-3/4X1/4H</b>	3/4"	1/4"	2pc	\$ 11.00
<b>SSFS-3/4X3/8H</b>	3/4"	3/8"	2pc	\$ 11.00
<b>SSFS-3/4X1/2H</b>	3/4"	1/2"	2pc	\$ 11.00
<b>SSFS-3/4XPILOT</b>	3/4"	Pilot	1pc	\$ 11.00
<b>SSFS-1X1/4H</b>	1"	1/4"	2pc	\$ 11.00
<b>SSFS-1X3/8H</b>	1"	3/8"	2pc	\$ 11.00
<b>SSFS-1X1/2H</b>	1"	1/2"	2pc	\$ 11.00
<b>SSFS-1 1/4X1/4H</b>	1 1/4"	1/4"	2pc	\$ 11.00
<b>SSFS-1 1/4X3/8H</b>	1 1/4"	3/8"	2pc	\$ 11.00
<b>SSFS-1 1/4X1/2H</b>	1 1/4"	1/2"	2pc	\$ 11.00
<b>SSFS-1 1/4X3/4H</b>	1 1/4"	3/4"	2pc	\$ 11.00
<b>SSFS-1 1/4XPILOT</b>	1 1/4"	Pilot	1pc	\$ 11.00

### Beringer Nose Wheel

#### RV-10 Nosewheel and Tire

The 5" Beringer wheel is a little lighter than the Matco supplied in the RV-10 kit. Red anodized finish, sealed bearings with axle and bearing spacer.

It is combined with a mounted Michelin Aviator 5x5.00 tubeless tire, which simplifies installation for the builder. May be substituted in the finish kit at extra cost. Uses kit mounting hardware.



<b>U-00012</b>	Beringer RV-10 Nosewheel and Tire	\$	475.00
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### Full Swivel Tailwheel Assembly

#### Full Swivel Tail Wheel Upgrades

Sturdy unit makes maneuvering your taildragger into crowded hangars or parking spots much easier. Included as standard equipment in Fuselage Kits shipped since early 1997. With a simple modification to the tailspring, it may be installed on finished aircraft. Uses standard tailwheel. Unit does not include tailwheel, axle bolt, chain, or springs.



<b>U FSTW-ASSY</b>	Full swivel assembly plus tail spring	\$	231.00
<b>U FSTW-W/O SPRING</b>	Adapt your existing spring and mount this swivel	\$	142.00

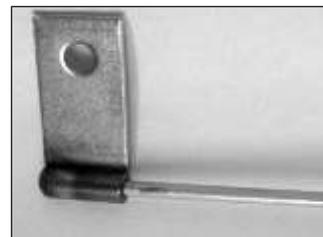
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**Cowl Hinge Pin**  
Cowl Pin with Welded Tab

Cowl pins for joining the top and bottom halves of the cowl together using the AN257 hinge. Complete with welded tab to secure the pin to the cowl with **screw and nutplate (not supplied see plans)**. Left and Right required, 6ft. long, cut to length as required.



<b>COWL HINGE PIN-LEFT</b>	6ft. Hinge Pin 090 with Tab	\$	13.20
<b>COWL HINGE PIN-RIGHT</b>	6ft. Hinge Pin 090 with Tab	\$	13.20

**Static Air Kit**  
Provides a Static Air System

Simple static kit that fits all models. Provides a static port for each side of fuselage. Static kit fits all models. Includes static ports, tube and fittings for instruments.

<b>STATIC-KIT</b>	Static kit for all models	\$	19.00
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**Axle Shims**  
RV-8/12 Axle Alignment Shims for Toe-In and Camber

The separate axles on the RV-8/12 may require tapered shims to align the wheels correctly. Available in 0.5, 0.75 and 1 degree increments. Shims may be stacked to correct for larger angle changes.

<b>U-00013A</b>	Shim Axle Toe 3/4 Deg	\$	25.00
<b>U-00013B</b>	Shim Axle Toe 1/2 Deg	\$	25.00
<b>U-00014A</b>	Shim Axle Camber 1 Deg	\$	25.00

**Parking Brake Valve**  
Valve to Hold Hydraulic Pressure on Brakes When Set

Holds hydraulic pressure on the brakes. Requires hoses specific to individual installation (not included) and an activation control cable or panel lever.

<b>BRAKE PARKING PV-2</b>	Parking brake valve	\$	128.00
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**Parking Brake**  
Install Kit

This kit from RV builder David Ward provides an easy way to install and plumb a parking brake valve in the RV-10. It may also be adapted for use in other RVs. You will also need to buy the valve (BRAKE PARKING PV-2), and a CT A-740 type cable to operate the valve, which can be ordered separately (builders may use their own choice of choke-type actuator cable). **Not suitable for use in the RV-12.**



<b>BRAKE PARKING INSTALL</b>	Install Kit for PV-1 or PV-2	\$	179.00
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**Tie Down Rings**  
Forged Tiedown Rings for Wing Fittings

Forged 3/8-16 rings for installation in the tie-down fittings in the wing. Easily removed for flight. Order two, one for each wing, 3 for trigear airplanes.



<b>BOLT EYE 3/8-16 T.D.</b>	Tie-down rings	\$	4.25
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**RV-7/9 and RV-10**  
Mounting Bracket for ELT or Whelen Power Supply

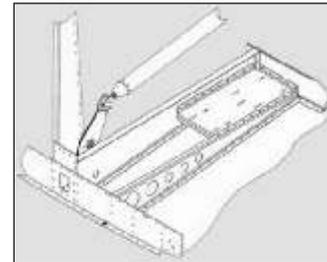
RV-7/9 and RV-10 builders! Vans Aircraft, Inc. has developed a pre-punched mounting bracket for the Whelen (A413A-HDA-CF-14) strobe power supply in RV-10's and a similar unit for either the Whelen (A413A-HDA-CF-14) strobe power supply or the Ameri-King (AK-450 ELT) for RV-7/9 builders. The bracket allows the builder to place the power supply or ELT in a standardized location and the kits come with both hardware and installation instructions.



<b>WHELEN PWR MOUNT 10-L</b>	RV-10 LEFT SIDE Strobe Power Supply Mount Bracket	\$	17.50
<b>ELT/PWR MOUNT 7/9-L</b>	RV-7/9 LEFT SIDE Mount Bracket for Strobe Power Supply or ELT	\$	15.00
<b>ELT/PWR MOUNT 7/9-R</b>	RV-7/9 RIGHT SIDE Mount Bracket for Strobe Power Supply or ELT	\$	15.00

**RV-7/9/10**  
Mount Kit for AHRS Unit

Mount for Attitude Heading Reference System unit. Provides parts to mount the AHRS unit for either the Garmin G900X™ or the Grand Rapids EFIS. Locates unit behind baggage bulkhead on RV-7, RV-9, and RV-10.



<b>IF AHRS MOUNT</b>	AHRS Mount Kit for RV-7/9	\$	30.00
<b>IF AHRS MOUNT-10</b>	AHRS Mount Kit for the RV-10	\$	44.50

**Placards**

Certain decals, Stainless steel placards are required on your RV. This should provide most of them.

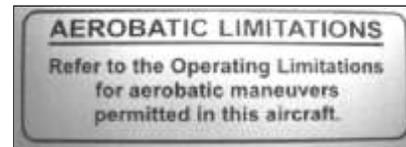
**Aerobatic Limitations Placard**

Free to Our Builders

This 1-1/2" x 4" self adhesive Aerobatic Limitations Placard is available.

**Free to our builders with any purchase from Van's Aircraft.**

This placard cautions pilots to be Familiar with the operating limitations of the specific airplane that is being flown.



<b>PLA AEROBATIC LIMITS</b>	LIMITS PLACARD / FREE	\$	0.00
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**Placards**

Decals and Stainless Steel Data Plates

Decals and stainless steel data plates.



<b>VAF EXPER DATA PLATE</b>	STAINLESS STL PLATE	\$	12.50
<b>PLA EXPER DATA PLATE</b>	Stainless data plate	\$	2.75
<b>PLA EXPERIMENTAL 2"</b>	2" Decal 'EXPERIMENTAL'	\$	2.50
<b>PLA PASSENGER WARNING</b>	Passenger Warning Decal	\$	3.40
<b>PLA OPEN (LEFT)</b>	Canopy open decal CCW	\$	2.80
<b>PLA OPEN (RIGHT)</b>	Canopy open decal CW	\$	2.80
<b>PLA NO PUSH BLACK</b>	Decal 'NO PUSH' Black letters	\$	6.50
<b>PLA NO PUSH WHITE</b>	Decal 'NO PUSH' White letters	\$	6.50

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### Van's Aircraft Logo

For Interior or Exterior Applications

Approximately 16" long with an overall height of 3-1/8" this vinyl self adhesive Van's Aircraft logo decal may be used for interior or exterior applications.

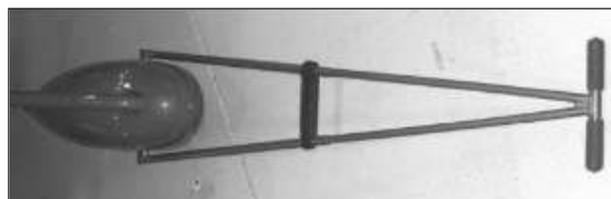
Logo is available in two colors Black or White.



<b>PLA VAN'S LOGO BLACK</b>	Black lettering	\$	7.50
<b>PLA VAN'S LOGO WHITE</b>	White lettering	\$	7.50

### RV-12 Tow Bar

Custom tow bar for the RV-12. Collapsible for storage, also functions as a rudder control lock. Some simple assembly required. Lightweight (1.2 lb) aluminum, with a red anodized finish. Will work with/without wheelpants.



<b>CA-00001</b>	RV-12 Tow Bar Kit	\$	105.00
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### RV-12 Glareshield Panel Shade

The RV-12 glareshield is an optional addition to the canopy that shades the panel to improve visibility and reduce reflections in the windshield. Easily attached with two LP4-3 rivets and some tank sealant (not supplied as most RV-12 builders will have these. Order separately if required).

Manufactured from lightweight fiberglass (12oz), will require some minor trimming and finish paint. May be installed on flying aircraft, does not affect exterior paint.

<b>CA GLARESHIELD 12</b>	RV-12 Panel Glareshield	\$	115.00
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### RV-12 Canopy Seal Kit Block Rain & Reduce Drafts

This canopy seal kit is included in Finish kits shipped after December 2013, but is offered here for those who wish to retrofit it to older kits or flying airplanes.

The kit provides seals for the front, sides and rear of the tip up canopy, as well as detailed instructions. Some adhesive will need to be supplied by the builder.

<b>12 CANOPY SEAL KIT</b>	Canopy Seal Kit	\$	52.00
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### RV-12 Canopy Trim Kit Inside Fiberglass Molding

Canopy Base Molding for the RV-12.

Made of lightweight fiberglass, the molding is bonded onto the canopy base frame to cover the otherwise too obvious structural details. The molding offers a "finished" appearance to compliment other cabin upholstery components. Some trimming and finishing work is required for installation.

<b>12 CANOPY TRIM KIT</b>	Inside Fiberglass Mold	\$	80.00
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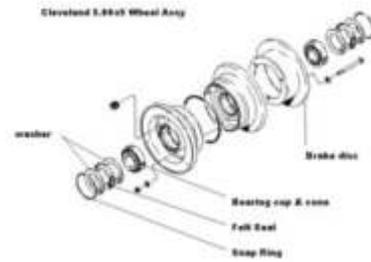
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Miscellaneous Service Items

Cleveland Wheel Parts

Replacement Parts for Wheels and Brakes

Van's stocks some replacement parts for Cleveland 5.00x5 wheels and brakes. Quantity shown is per wheel, double it if you need parts for both wheels. If replacing the cone bearing, also replace the cup.



Go to Van's Aircraft Inc.'s web site to view a larger image of the parts.

<u>Wheel Parts</u>	<u>Vans Part #</u>	<u>Quantity per wheel</u>
Bearings:	WHL 5.00 BEARING CUP	2
	WHL 5.00 BEARING CONE	2
Disc	WHL 5.00 DISC	1
Washer	WHL 5.00 WASHER	4
Felt grease seal	WHL 5.00 FELT SEAL	2
Bearing Snap Ring	WHL 5.00 SNAP RING	2

<b>WHL 5.00 BEARING CUP</b>	Bearing Cup	\$ 38.00
<b>WHL 5.00 BEARING CONE</b>	Bearing Cone	\$ 74.00
<b>WHL 5.00 DISC</b>	Disc	\$ 177.00
<b>WHL 5.00 WASHER</b>	Washer	\$ 11.00
<b>WHL 5.00 FELT SEAL</b>	Felt Grease Seal	\$ 7.80
<b>WHL 5.00 SNAP RING</b>	Bearing Snap Ring	\$ 14.00

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 on any RV. 5.00x5 size used on one and two place airplanes, 6.00x6 on RV-10.



<b>BRAKE PAD KIT 5:00X5</b>	One and Two Place Airplanes	\$ 33.00
<b>BRAKE PAD KIT 6:00X6</b>	RV-10	\$ 88.00

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	\$ 23.00
<b>BRAKE M/C RBD4 REPAIR</b>	Repair kit for Matco master cylinders	\$ 14.00

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	\$ 3.00
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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>FSTS635-1</b>	Van's Full Swivel tailspring	\$ 94.50
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### Tailwheel

If the Rubber Has Worn Off, Then Replace It

Six inch tailwheel as shipped in the RV Kit for 3/8" axle only.  
Will not fit single-sided Tailwheel Mount by Aviation Products.



<b>U TAIL WHEEL 6"</b>	Standard 6" tailwheel as shipped in the RV kit	\$ 35.00
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### Tailwheel

Lightweight Replacement Tailwheel

This tailwheel is a replacement for the type supplied in the kit. High quality sealed bearings. Weighs approx. 1.55lb, standard tailwheel weighs approx 2.4lb  
Will not fit single-sided Tailwheel Mount by Aviation Products.  
May require two extra AN960-616 washers.



<b>U TAILWHEEL LW 6"</b>	Lightweight tailwheel	\$ 105.00
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### Brake Fluid

Mil-Spec Hydraulic Oil

RV brake systems does not use automotive brake fluid. Royco 782 is a synthetic fire resistant hydraulic fluid compatible with the seals in the kit brake components.

Sold by the quart - one is enough to fill RV brake systems.



<b>BRAKE FLUID 782 QT</b>	BRAKE FLUID 782 QT	\$ 11.50
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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	\$ 2.00
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## 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.

**CAUTION! If the T-406A replacement cap is to be used on the RV-12, it must be modified in accordance with the RV-12 construction manual (Section 37) to allow venting.**



<b>T-406A</b>	New replacement fuel cap	\$	28.00
<b>FUEL CAP SEALS (EA)</b>	Fuel cap brown O-ring	\$	3.00
<b>FUEL CAP 50</b>	Fuel cap stem seals	\$	1.00
<b>FUEL CAP 40-SS</b>	Fuel cap stainless steel bearing washer	\$	2.15

## 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>	1/6" MATERIAL 7"X14"	\$	5.50
<b>T-407 GASKET</b>	Pre-punched tank cover plate gasket	\$	2.30

## Tires and Tubes

### Replace Those Worn Treads, Main and Nose Gear

New 6-ply tires. 5:00x5-6 fits main gear of all one and two place RV's and is used on the RV-10 nosewheel. 'Lamb' type tire fits nosewheel of RV-6A/7A/8A/9A only. The RV-10 uses 15x6.00-6 tires on main wheels.

Tubes are synthetic rubber, less porous than the older natural rubber type.



<b>U 5:00X5-6</b>	5:00X5-6 Main Gear Tire / 1 & 2 place RV's and RV-10 nosewheel	\$	73.00
<b>U 5:00X5-6IT</b>	5:00X5-6 Main Gear Tube / 1 & 2 place RV's and RV-10 nosewheel	\$	56.00
<b>U 15X6.0-6</b>	15x6.00-6 Main Gear Tire RV-10	\$	90.00
<b>U 15X6.0-6IT</b>	15x6.00-6 IT Main Gear Tube RV-10	\$	48.00
<b>U LAMB TIRE</b>	Nose Gear Tire RV-6A/7A/8A/9A only	\$	31.00
<b>U LAMB TUBE</b>	Nose Gear Tube RV-6A/7A/8A/9A only	\$	11.00

## 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	\$	29.50
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## 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. Replacement Viton O RINGS for CAV-110 also available.



<b>CAV-110</b>	Fuel tank quickdrain	\$	13.00
<b>CAV-110 O-RING</b>	O-RING VITON DRAIN	\$	0.35

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## Heating and Ventilation

RVs commonly fly at altitudes where heat is necessary, and of course, flying in the cold clear weather of winter is always exhilarating. It's a lot nicer if your lips aren't frozen together. Cabin heat is a must to get full pleasure and utility out of your airplane. Build your own custom system that works for you.

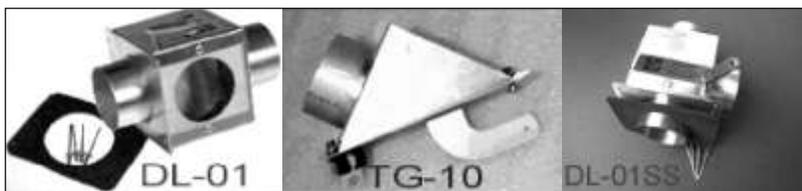
Keeping warm is only part of the comfort zone. Proper ventilation is a must for flying in the warmer months. The same canopies that give RV's excellent visibility also let in a lot of sun and temperatures in the cabin can quickly climb to uncomfortable levels. Cockpit ventilation is a must. The systems here have been proven to be light, affordable and effective.

**Note:** The RV-7/8/9 ventilation system for both the fuselage and wing are provided as part of the fuselage kit.

### Heater Selector/Bypass Box

Firewall Mounted Warm Air Selector/Bypass Box

Box mounts on the engine side of the firewall and either routes warm air to the cockpit or dumps the warm air overboard. Air heated in the heat muff must continually flow to keep from overheating components and destroying items such as the muff or the scat tube. Requires control cable to select heat on/off.



<b>CT A-740 BLACK</b>	Heat selector control cable	\$	36.50
<b>VENT DL-01</b>	Square box with 2" outlet flange	\$	102.00
<b>VENT DL-01SS</b>	Stainless mounting plate/tube, shaft and selector door, w/2" dump tube	\$	124.00
<b>VENT TG-10</b>	Triangular light weight box	\$	70.00
<b>VENT TG-10 KIT</b>	Same as above but in kit form for self assembly	\$	44.00

### Cabin Heat Muffs

Heat Muffs Mounts on Exhaust Pipe

The VENT DL-05 fits on either the left or right side of many exhaust systems with 1 3/4" diameter tailpipes. Later exhausts have 2" tailpipes and require the VENT DL-05 2". 8" Long, 4 1/2" from the center of inlet hole to the center of the outlet hole. This is included with the EA EXH W/MUFF 320/360. Check your tailpipe diameter before you order.

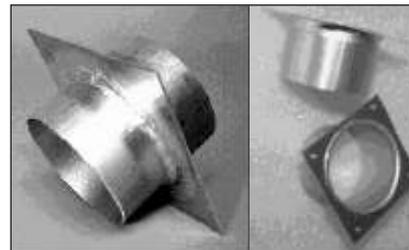


<b>VENT DL-05</b>	1 3/4" HEAT MUFF	\$	118.00
<b>VENT DL-05 2"</b>	2" HEAT MUFF	\$	115.00

### 2" Flanges

Flanged 2" Tube for Baffle or Bulkheads

Flange rivets to baffle for obtaining fresh air for the heating system. Flush mount on baffle surface and 2" tube for attaching SCAT tube. The FLANGED DUCT allows penetrating bulkheads by providing 2" tube on both sides of flange. Tube projects 1" from each side of mounting flange.



<b>VENT DL-03</b>	SCAT tube flange	\$	11.00
<b>VENT 2" FLANGED DUCT</b>	Flanged duct for penetrating bulkheads	\$	13.75

### SCAT Tube and Clamps

Hi-Temperature Tubing for Ducting Air in Engine Compartment

Standard aircraft wire reinforced hi-temp tubing for ducting warm air to and from the heat muff in the engine compartment. Clamps are stainless steel.

<b>VENT SCAT 2X2'</b>	SCAT tube 2" dia. x 2' long	<b>\$</b>	23.00
<b>VENT SCAT 2X3'</b>	SCAT tube 2" dia. x 3' long	<b>\$</b>	34.00
<b>VENT SCAT 2X6'</b>	SCAT tube 2" dia. x 6' long	<b>\$</b>	67.00
<b>VENT SCAT 2X12'</b>	SCAT tube 2" dia. x 12' long	<b>\$</b>	132.00
<b>AN737TW-66</b>	2" HOSE CLAMP	<b>\$</b>	1.30

### 90 Degree Elbow 2 inch Diameter

90 degree elbow designed for redirecting heat or vent airflow. One end is swaged large enough to fit over a 2" outside diameter aluminum tube and the other end is a 2" outside diameter designed to insert into SCAT tubing.



<b>VENT DL-04</b>	2" Duct Elbow	<b>\$</b>	24.00
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### 2 inch 'Y' Tube Vent DL-Y

'Y' tube provides a method of routing warm/cool air to two different locations. End with clamp is expanded to fit over standard 2" flanges offered above and two ports for SCAT tube interface.



<b>VENT DL-Y</b>	2" 'Y' Tube	<b>\$</b>	32.00
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### Vent Large Aluminum Eyeball

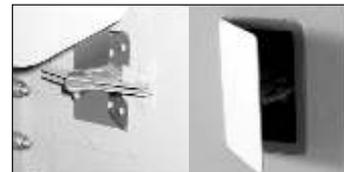
- Machined aluminum
- Less leakage
- Direct replacement for plastic vents supplied with some Van's Kits.
- More expensive, but worth it!
- Available in black or clear (aluminum)



<b>VENT SV-6 BLACK</b>	BLACK Aluminum Vent	<b>\$</b>	152.00
<b>VENT SV-6 CLEAR</b>	CLEAR Aluminum Ven	<b>\$</b>	152.00

### Vent Kit 2 Rectangular Vents

Kit of parts as supplied with RV-10 fuselage kits for rear seat vents. Offered as an option for vents in the RV-3 and 4. Two vents in each kit - cannot be sold individually. Requires flat area 2.5" x 3.5" to install.



<b>VENT SIDEWALL KIT</b>	2 Rectangular Vents	<b>\$</b>	18.00
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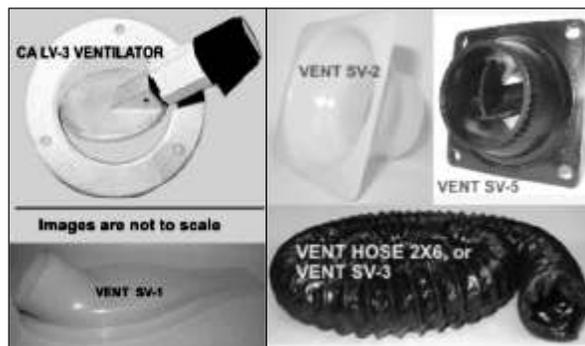
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## Cool Air Vent Components

### Systems and Components for Do-It-Yourself Ventilation

Two types of fresh air ventilation can be obtained.

1. The direct sidewall mount ventilator. The sidewall mount ventilator offers direct air for hot spots. Part number **CA LV-3 VENTILATOR** is 2 inches in diameter with a 1-1/4" diameter opening.
2. The standard NACA vent with the eye-ball valve/director part number: **VENT SV-5** is 3 inches square with a 1-5/8" diameter opening. The NACA type system has been successfully used on all models.



The **VENT SV-COMBO** includes:

- 1 each SV-1,2,3 and 5 for the complete system.
- 2" hose clamps part number **AN737TW-66** are used to attach the vent hose to the SV-1 and SV-2.

<b>CA LV-3 VENTILATOR</b>	Cabin sidewall mount personal vent	\$	65.00
<b>VENT SV-COMBO</b>	Complete vent system for one seat with drawing and instructions	\$	39.00
<b>VENT SV-COMBO X2</b>	Complete vent system for two seats with drawing and instructions	\$	76.00
<b>VENT SV-1</b>	NACA low drag sidewall mount hose interface	\$	6.25
<b>VENT SV-2</b>	Hose adaptor for SV-5 ventilator	\$	4.30
<b>VENT SV-5</b>	Ventilator provides eyeball type air directional control and valve.	\$	22.50
<b>VENT SV-1/2</b>	One each SV-1 and SV-2 at a lower price	\$	10.00
<b>VENT SV-3</b>	3 feet of 2" fresh air ducting tube	\$	10.50
<b>VENT HOSE 2X6'</b>	6 feet of 2" fresh air ducting tube	\$	20.00
<b>AN737TW-66</b>	2" HOSE CLAMP	\$	1.30



## Lighting Considerations

Lighting is a major decision when building your RV. It is not required, at least for day VFR flight, to equip your RV with lights. Airplanes without them are lighter, simpler and less expensive. For those who like the option of flying at night, or wish to make themselves more visible, Van's offers several options using AeroLEDs™ solid state lighting units. There are landing and taxi lights for wing leading edges and wingtips. Also, several different ways to mount position lights on older (flat top type) wingtips.

The RV-12 has a defined comprehensive lighting system using AeroLEDs, RV-12 LIGHTING KIT, which includes landing, position and strobe lights.

The RV-7/7A, RV-8/8A, RV-9/9A and RV-10 kits have wingtips and rudder fairings that use the AeroLED™ LN-201 wingtip lights/strobes and LN-210 tail light/strobe.

We also stock spare parts (bulbs, flash tubes, etc) for the Whelen systems historically used on many RVs.

### AeroLEDs™ Lights

#### Lighting Systems for Night Flying

AeroLEDs™ landing and navigational lighting products are designed for some of the most extreme operating conditions on the planet. They introduced the world's first LED-based Nav/Strobe lighting product that meets TSOs C30C and C96a-C2. The PULSAR line is a "clean sheet" design, utilizing advanced mechanical/electrical computer modeling and optical ray-tracing software to accurately predict the performance of the final product. The design has these benefits compared to traditional lighting systems: zero maintenance, reduced power consumption by 80%, no harmful substances such as xenon or mercury, extended light performance, lighter weight, reduced aerodynamic drag. All units are sealed and nitrogen purged. These are a direct retrofit when replacing legacy products, with no mounting modifications. No power pack or high voltage wiring required - the strobe connects directly to a switched 9-36v supply. Strobes can be connected to synchronize them.

Two systems are available:

1. Pulsar NS90 c/w Suntail. Wingtip position/strobe lights combined with a tail light/strobe for rudder mounting. This fits the post 2000 RV-7/8/9/10 wingtips with recess, and is the standard installation for these models. Similar to Whelen A650 c/w A500 lights (LN SYS 6).

**Order 1 x LN-201 and 1 x LN-210.**

2. Pulsar ExP. Wingtip position/strobe lights combined with an aft facing white light, similar to Whelen A600. These work on older W-415 type wingtips (no recess) on the RV-4/6/8, on airframes without the rudder light.

**Order LN-200 (contains L&R Pulsar ExP).**



<b>LN-200</b>	Aero Pulsar ExP Left and Right	\$ 820.00
<b>LN-201</b>	Aero Pulsar NS 90 Left and Right	\$ 760.00
<b>LN-210</b>	Aero Suntail Position/Strobe	\$ 340.00

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**RV-12 Lighting Kit**  
Comprehensive Package

This lighting kit includes everything necessary to equip your RV-12 for night flight. Wingtip LED position and strobe lights, LED landing light, and cockpit map light are all included, along with all hardware, wiring and mounting brackets. All LED illumination provides maximum light and reliability with minimum current draw and weight. Easy retrofit to flying RV-12 or may be installed during kit construction.

Entire lighting system adds 2.3lbs to airplane empty weight.

Older RV-12s with the D-180 EFIS may also want to upgrade their wing wiring connectors as part of the installation. If so, order the wing connector kit in addition.



<b>RV-12 LIGHT KIT-SV</b>	Landing, Position, and Strobe Lights	<b>\$ 1350.00</b>
<b>12 WING WIRE CONNECT</b>	Wing Connector Kit	<b>\$ 80.00</b>

**Strobe Installation Packages\***  
Wire and Connectors for Power Supply to Lamphead

For those who are making up their own systems.

<b>LN HT-10-1</b>	10' of cable and connector for 1 strobe	<b>\$ 18.00</b>
<b>LN HS-30-1</b>	30' of cable and connectors for 2 strobes	<b>\$ 28.50</b>
<b>LN HD-60-1</b>	60' of cable and connectors for 3 strobes	<b>\$ 44.00</b>

**Replacement Parts\***  
Replacement Parts for Navigation and Strobe Systems

Replacement parts for navigation and strobe systems.



<b>LN A441-3</b>	MOLEX CONNECTORS Connects power supplies to cable (MALE 3-PIN)	<b>\$ 3.25</b>
<b>LN A442-3</b>	MOLEX CONNECTORS Connects power supplies to cable (FEMALE 3-PIN)	<b>\$ 3.25</b>

**Replacement Lenses**  
Molded Clear Lenses for Wingtips

Lenses for RV wingtips with molded recesses. Replacements for kit parts. Fits models as below. All are cut in half to make 2 lenses, 1 Left 1 Right. They DO NOT fit older W-318/W-415 "flat top" wingtips on the RV-3/4/6/6A.

<b>VA-172-1</b>	Fits all RV-7/7A and post 2001 RV-8/8A wingtips	<b>\$ 59.00</b>
<b>VA-166</b>	Fits all RV-9/9A wingtips	<b>\$ 46.50</b>
<b>VA-193</b>	Fits all RV-10 wingtips	<b>\$ 61.00</b>

### Simple Wingtip Lens Kit

Flush Mounting Lens Fits Neatly Into the Fiberglass

This kit fits in the wingtip of all aircraft with the older W-415 Flat-Top Wingtips. The clear lenses cover the position lights and eliminate the drag of a protruding light blister. Not meant to cover strobes or the multiple-light installations, but has been accomplished. Includes clear lenses and mounting hardware for both wings. No light fixtures or bulbs.

<b>LN CLEAR LENS KIT</b>	Simple Wingtip Lens Kit	\$	30.00
<b>VA-148</b>	Replacement Lens 4/6/8 Old Style - Makes 2 Lenses	\$	15.00

### Replacement Lamp

For Van's Gauges

The Vans gauges have a small bulb on the end of an extension. **Van's gauge replacement lamp will not fit Isspro gauges.**

<b>IE IEV 12V LAMP</b>	Vans gauge replacement lamp	\$	1.90
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### Cockpit Light

Swivels and Tilts

Red LED cockpit light. Swivels and tilts. Dimmable, draws 20mA, 12v only.



<b>LC MAPLIGHT RED</b>	12 volt Red LED Light	\$	47.00
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### Flexible Light Strip

Red or White LEDs

Flexible LED light strip available with red or white LEDs, or both combined on one strip (separate circuits). Attaches to the underside of glare shield to illuminate entire panel. LEDs spaced at 3/4". The 35" length may be trimmed as needed. 0.4" wide x .040" height. 12 V only, draws 83 mA. Dimmable using dimmer units elsewhere in catalog.



Flexible LED Light Strip - Red LEDs

<b>LC LED STRIP RED</b>	35" LED Strip RED	\$	39.95
<b>LC LED STRIP WHITE</b>	35" LED Strip WHITE	\$	39.95
<b>LC LED STRIP RED/WHT</b>	35" LED Strip RED/WHITE	\$	59.95

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Dome Light  
LED

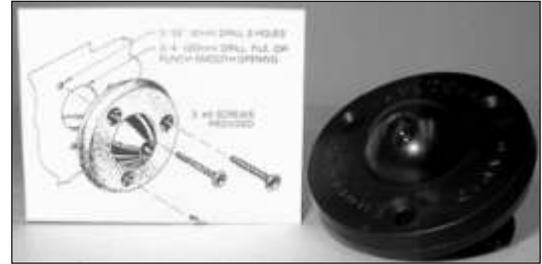
Small chrome light fixture with four white LEDs. Useful for cabin flood light, RV-10 Baggage compartment etc. 12v only, low current draw. 7" cord. Attaches with 2x #4 screws (not supplied).



<b>LC LED DOME LIGHT</b>	4 White LEDs	<b>\$ 7.95</b>
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Eyeball Cockpit Lights  
Small Adjustable Lights

Small ECL-01 incandescent light casts a soft white light. Usually mounted on side rails of cockpit, two or three are enough to light an entire instrument panel.  
ECL-02 is a red LED light in the same housing as the ECL-01.



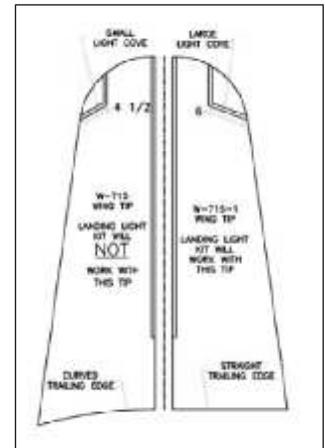
<b>LC ECL-01</b>	Eyeball Cockpit Light	<b>\$ 16.00</b>
<b>LC ECL-02</b>	Red Eyeball Cockpit Light	<b>\$ 16.00</b>

RV-7/8 Wing Tip Landing Light Kit  
Complete Landing Light System

A Van's Aircraft design specifically for the RV-7 and RV-8 2 place aircraft. This kit offers a complete landing light system that integrates with the wing tip lens and position lights of RV-7's and RV-8's. One kit provides everything needed to install two 75 watt lights in each wing tip resulting in a total of a 300 watts of wide angle light dispersion for recognition and landing.

The light system WILL NOT fit tips with curved trailing edges like the W-715 nor will it fit the older tip W-415. This light system is ONLY available for wing tips with part number W-715-1 which have shipped in all RV-7/7A and RV-8/8A kits since August 2005.

**Van's Aircraft is unable to exchange older wing tips for the newer W-715-1.**



<b>LL 7/8 MR-16</b>	Kit Contains all parts necessary for 2 W-715-1 Wing Tips	<b>\$ 125.00</b>
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RV-10  
Landing Light Kit

A Van's Aircraft design specifically for the RV-10 4 place aircraft. This kit offers a complete landing light system that integrates with the wing tip lens and position lights of the RV-10. One kit provides everything needed to install a single 75 watt light in each wing tip resulting in a total of a 150 watts of wide angle light dispersion for recognition and landing.



<b>LL 10 MR-16</b>	Kit Contains 2 landing Lights for the RV-10	<b>\$ 95.00</b>
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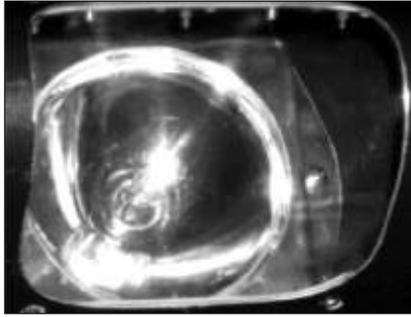
3. Fax your order to 503.678.6560
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## Leading Edge Landing/Taxi Light Kit

Complete Kits From Duckworks



Photo of an HID and Halogen light on an RV-6. Notice the intensity of the HID Lamp!



**ROUND:** LL DW-02 RV-4/6/7/8 & LL DW-02 RV-9 ONLY



**HID:** LL HIDW-01 RV-4/6/7/8 & LLHIDW-01 RV-9 ONLY

### LANDING LIGHT KITS

All the kits below include a formed lens, aluminum mount parts, lamp, hardware and computer-generated drawings and templates. Installs through a hole in leading edge, so they are easily retrofitted to a finished wing. Adjustable at installation to either taxi or landing angle. Many builders put one in each wing.

#### 100w LIGHTS: LL DW-02 RV-4/6/7/8 & LL DW-02 RV-9 ONLY

A 100w Halogen bulb in a 4-inch PAR 36 round reflector. This light is the same size reflector as the HID, but with a low-cost Halogen bulb. Weighs 23.5oz.

#### HID Landing Lights

HID "High Intensity Discharge" lights use a PAR 36 round reflector. Extremely bright, white light. Low (50w) power consumption with less heat and no filament to burn out. Weight approx. 2lb. May be connected to a flasher device for enhanced visibility.

<b>LL DW-02 RV-4/6/7/8</b>	Round 100w Landing/Taxi light for RV-4/6/7/8s	<b>\$ 115.00</b>
<b>LL DW-02 RV-9 ONLY</b>	Round 100w Landing/Taxi light for RV-9s	<b>\$ 115.00</b>
<b>LL HID-DW50 4/6/7/8</b>	HID 50W Landing Light for 4/6/7/8	<b>\$ 270.00</b>
<b>LL HID-DW50 RV-9/9A</b>	HID 50W Landing Light for RV-9/9A	<b>\$ 270.00</b>
<b>LL HID-DW50 RV-10</b>	HID 50W Landing Light for RV-10	<b>\$ 270.00</b>
<b>LL DW LENS ONLY</b>	Replacement lens only RV-4,6,7,8	<b>\$ 15.00</b>
<b>LL DW 09 LENS ONLY</b>	Replacement lens only RV-9	<b>\$ 20.00</b>
<b>W-00014</b>	Replacement lens only RV-10/12	<b>\$ 18.00</b>



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## Electrical Components

The electrical devices are available as individual components and as kits.

### Batteries

#### Aircraft Batteries

**Concorde's** recombinant gas design means superior charging and better cold starting performance than traditional gel cells. The battery dimensions are 7-1/2" length by 7-1/8" tall by 5" deep and with a weight of 23.5 lbs. Sealed lead-acid design will not leak.

The **Odyssey** battery has excellent cranking power (600 amps) in a small, light battery with dimensions 7-3/16" long by 6-1/2" tall by 2-7/8" deep and with a weight of 14.5 lbs. Dry Cell technology means no leaks and longer shelf life.

The **ES PC680 INSTALL KIT** below is included in Firewall Forward kits for the RV-6/7/9.



<b>ES 25RG-XC</b>	Concord 25RG-XC battery (23.5 LBS)	\$	270.00
<b>ES PC680</b>	Odyssey Battery (14.50 LBS)	\$	140.00
<b>ES PC680 INSTALL KIT</b>	Installation Kit for Odyssey battery	\$	50.00

### Integrated Back-Up Battery

#### IBBS Electronic System

The IBBS is an electronic system that combines a Ni-mh battery pack, a charger and switching logic in one convenient package. It simplifies the wiring and installation of a source of back-up power by integrating all of the key elements into a single enclosure. The IBBS system provides back-up power to electronic loads such as EFIS/EMS, GPS, Autopilots, and electronic ignition systems.

Integral to the IBBS is a battery pack and a matched charging system. Includes switching circuitry to provide a stable source of output power during normal and emergency operations. Also provides signals to other equipment such as EFIS systems to communicate the operating state of the back-up bus as well as the state of the battery. Additionally, the IBBS system provides voltage surge and sag protection for connected equipment, allowing operation of critical equipment during engine starting.

*Optional pre-wired harness and connector also available.*

#### Features & Benefits:

- Provides conditioned power to critical loads
- Simplifies wiring for back-up power
- 4 amp-hour capacity in 2.5 lb package
- Battery, charger and switching logic in a single package
- Rugged cast aluminum enclosure



<b>ES BATT BACKUP 4A</b>	Battery Back-Up System	\$	375.00
<b>ES BATT BACKUP HARN</b>	Harness for Battery Back-Up	\$	85.00
<b>ES BATT BACKUP CPC</b>	Connector for Battery Back-Up	\$	17.00

### Automatic Battery Charger

#### For 6 and 12 Volt Batteries

3.5 Amp Automatic Battery Charger for 6-volt and 12-volt batteries; charges and maintains all types of lead-acid batteries from 1.2-120Ah, including Wet, Gel, and AGM. Suitable for the Odyssey and Concorde batteries commonly used in RVs.

A smart processor utilizes sophisticated levels of intelligence to alter the charge process based on feedback from the battery to extend battery life. An advanced recovery mode repairs damaged areas of the battery to provide longer, healthier battery performance; recovers deeply discharged and sulfated batteries with pulse charging.

Multiple Charging Modes; A Cold/AGM Mode optimized charge mode for charging batteries in cold weather below 32 degree Fahrenheit or AGM batteries, and a Small Battery Mode (900ma) for charging smaller capacity batteries. Requires 110vAC supply.



<b>TOOL CHARGER G3500</b>	Battery Charger	\$	63.00
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**Magneto Switch**  
Conventional Mag Switch with Start

Keyed ignition switch with plate. Provides off, right, left, both and start positions. Mounts thru rear of panel in 7/8" hole. Package includes two locks for things like canopy and baggage compartment. Includes two keys.



<b>ES A-510-2K</b>	Magneto switch with start	<b>\$ 165.00</b>
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**Wiring Kits**  
Several Wiring Harness Kits Available  
to Suit Your Skill/Creativity

Van's Aircraft has several wiring options for our kit builders:

■ **A raw materials wiring kit: ES EWC-KIT**

A kit for the builder who wishes to wire his own kit from scratch. The kit includes a variety of lengths of Tefzel wire (268') and suitable connectors, heat shrink tubing, nylon ties, terminal boots, etc. There is even a basic wiring schematic.

■ **Two place wiring harness kits: ES WH 6/7/9 KIT, ES WH-8 FWD or AFT**

These are actual finished wiring harnesses for the various RV's. These harnesses have all wire precut to length and terminals installed. It looks like a giant nervous system! It is intended to be the simplest and quickest way to install the routine necessary wiring. These are custom to the specific aircraft and are the BEST BUY for the builder. It includes installation directions and drawings. This system is designed to be easily modified/upgraded to meet the builder's specific requirements.

■ **Assorted circuit breaker switches for above kits: ES WH-SW**

A good buy in the generally needed circuit breakers and circuit breaker switches most often used with the above harnesses.

- Specifically: ■ 1 ES PBB-5      ■ 1 ES PBB-10A CB      ■ 1 ES 2GK54-73 SWITCH      ■ 1 ES PBB-2A CB  
 ■ 5 ES PBB-10      ■ 1 ES 1648-009-060      ■ 1 ES PBB-5A CB

If you are using two landing lights, an additional ES PBB-10 must be ordered.

■ **Four place wiring harness kits: ES WH 10 KIT**

The 4-place RV-10 with the I(O)-540 has a wiring harness that is very much like the 2-place aircraft harnesses. The major difference is that it includes a circuit breaker sub kit (ES WH-SW 10).

- Specifically: ■ 1 ES PBB-5      ■ 1 ES PBB-20      ■ 1 ES PBB-10A CB      ■ 1 ES 2GK54-73 SWITCH  
 ■ 4 ES PBB-10      ■ 1 ES PBB-5A CB      ■ 1 ES CB 1648-009-060



<b>ES EWC-KIT</b>	BASIC RV WIRING KIT	<b>\$ 200.00</b>
<b>ES WH 6/7/9 KIT</b>	WIRE HARNESS 6/7/9	<b>\$ 405.00</b>
<b>ES WH-8 AFT</b>	RV-8/8A aft mounted battery harness kit	<b>\$ 384.00</b>
<b>ES WH-8 FWD</b>	RV-8/8A fwd mounted battery harness kit	<b>\$ 335.00</b>
<b>ES WH-SW</b>	Switch kit for above WH kits	<b>\$ 205.00</b>
<b>ES WH 10 KIT I(O)-540</b>	RV-10 wiring kit for I(O)-540	<b>\$ 760.00</b>

**Starter Solenoid**  
Intermittent Duty Relay for Starter Motor

Intermittent duty solenoid, with separate control used to activate starter. Needs +12v to energize. 5/16" large terminals, 3/16" small terminals. Sturdy black plastic construction.



<b>ES 24021</b>	Starter solenoid	<b>\$ 21.00</b>
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**Master Relay**  
Continuous Duty Relay Used as Master Relay

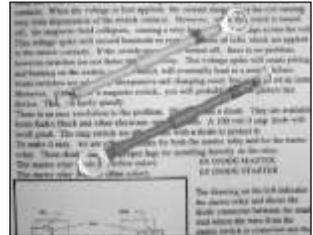
Ground control contact to activate. 5/16" large terminals, 3/16" small terminals.



<b>ES 24115</b>	Master relay	\$	20.00
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**Diodes**  
Protection Diodes

Protect your master and starter switches with this simple and inexpensive device.



<b>ES DIODE MASTER</b>	Surge protection diode for Master Switch	\$	11.00
<b>ES DIODE STARTER</b>	Surge protection diode for Starter/Mag Switch	\$	11.00

**Panel Light Dimmer**  
Controls Voltage to Lamps

Control the intensity of panel lights with the panel control. May use several units for: radio lights, flight instruments, engine lights, panel flood lights. Unit capable of 1.5 amps. Most instruments require 0.2 amp per instrument.



<b>ES DIMMER, LAMP 1.5A</b>	Voltage control unit for panel lamp control	\$	34.00
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**Flap Positioning System (FPS)**  
One-Touch Solution to Flap Management

The FPS lets you stay focused on flying the aircraft safer with one touch control. Flap positions are pre-selected with one touch, then automatically retracted with one touch without the need for visual monitoring of flap positioning progress. Infinite Flap retracting positions can be manually selected if desired.

Premium quality design components, with workmanship that is safe, sturdy, and long lasting. Brackets are CNC machined from tough Billet 6061 aluminum. Incorporates reliable printed-circuit with integrated high-quality relays for safe, fail-proof operation. All wire is military spec Tefzel.

**FPS Advantages**

- Three-position switch stops at approximately 10, 20, and 40 degrees (degrees of travel varies with aircraft type)
- Flaps return to full-up position in one touch and the circuit shuts off the flap motor automatically.
- Allows pilot to stay focused on flying the airplane with both hands, without the need to keep a hand on the switch, or monitor flap progress.

Complete kit is ready for installation, including everything required for a professional, factory-like install, with minimal to no modifications to your airframe. Comprehensive step-by-step instructions provide a thoroughly tested install procedure, normally requiring an average of just four to six hours.



<b>ES FLAP POS SWV 8</b>	RV-8 3-POS VANS	\$	225.00
<b>ES FLAP POS SWV 4679</b>	RV-4/6/7/9 3-POS VANS	\$	225.00
<b>ES FLAP POS SWV 10</b>	RV-10 FLAP POSITIONER	\$	225.00

## LC-40e and LC-50 Panel Dimmers 4 Channel Cockpit Light Controller



**LC-40e**

**LC-50**

For those builders who need more extensive cockpit lighting than the basic dimmer. The LC-40e Lighting Controller is a Low Cost Four-Channel Light Dimming System for Experimental Aircraft.

**LC-40e Dimmer** Includes: Four Control Pots, Wiring, Mounting Hardware and Instructions.

Features:

- Four independent channels 1.5 amps per channel (typically up to 18 post lights per channel)
- "Master Bright" switch allows all or selected channels to be joined and controlled by a single knob
- Low frequency Pulse Width Modulation control eliminates bulky heatsinks
- Capable of dimming LED panel lights
- Overload and short circuit protection
- Compact design (2.4 X 1.8") mounts easily
- "Bi-Linear" response gives the pilot more sensitivity at the dim end of the range where it is needed most

### LC-50 Advanced Dimmer

The LC-50 adds the ability to dim devices that will not dim with pulse width modulation (see list below). It also adds rate and offset adjustments for each channel. This allows exact matching of dimming behavior for each channel. Multiple light groups can then be controlled by a single knob.

The LC-50 Features:

- All of the LC-40e features plus
- Two Analog outputs for dimming these devices:
  - \* Garmin 400/500 series Radios
  - \* Garmin GTX 327/330 Transponders
  - \* Garmin GMA 347 Audio Panel
  - \* Garmin Displays G900X, G950, G1000 etc...
  - \* Tru-Trak ADI Pilot
  - \* Tru-Trak Pictorial Pilot
  - \* Newer PS Engineering Audio Panels

<b>ES DIMMER 4 CHANNEL</b>	4 Channel Dimmer	<b>\$</b>	127.00
<b>ES DIMMER LC-50</b>	LC-50 DIMMER	<b>\$</b>	175.00

## Buss Bar

Copper Bar for Ganging Switches Together



This bar can be drilled to connect all switches together, providing power to all with minimal losses in the system.

<b>ES BUSS BAR-063X.5X12</b>	Buss Bar	<b>\$</b>	3.85
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## Terminal Boot

Two Sizes of Insulating Rubber Boots for Studs

Soft white silicone rubber boot. -3S part is for #2 gauge battery cables. Insulates terminal connection.

<b>MS25171-3S</b>	Insulated boot for #2 wire	<b>\$</b>	1.37
<b>MS25171-1S</b>	Insulated boot for #10 stud	<b>\$</b>	1.20

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## Circuit Breakers and Switches/Breakers

### Electrical Circuit Breakers, Breaker/Switches

Circuit breakers and breaker/switches. Metal toggle, chrome bezel. Breaker/switch combines the functions of switch and circuit breaker into one compact unit. The circuit breakers come in two series, the W23 series and the W58 series.

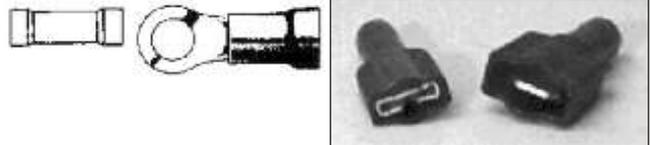


ES PBB-5	TOGGLE TYPE	5AMP	\$	34.00
ES PBB-10	TOGGLE TYPE	10 AMP	\$	34.00
ES PBB-15	TOGGLE TYPE	15 AMP	\$	32.00
ES PBB-20	TOGGLE TYPE	20 AMP	\$	36.00
ES PBB-35	TOGGLE TYPE	35 AMP	\$	27.00
ES PBB-2A CB-W23	PULL TYPE	2 AMP	\$	42.00
ES PBB-5A CB-W23	PULL TYPE	5 AMP	\$	26.00
ES PBB-10A CB-W23	PULL TYPE	10 AMP	\$	29.00
ES PBB-15A CB-W23	PULL TYPE	15 AMP	\$	30.00
ES PBB-20A CB-W23	PULL TYPE	20 AMP	\$	23.00
ES PBB-2A CB	PLAIN TYPE	2 AMP	\$	11.00
ES PBB-5A CB	PLAIN TYPE	5 AMP	\$	14.00
ES PBB-10A CB	PLAIN TYPE	10 AMP	\$	11.00
ES CB 1648-009-060	PLAIN TYPE	60 AMP	\$	20.00

## Electrical Terminals

Crimp on Terminals as Supplied in Wiring Kits

Three types of terminations. Ring terminals with wire sizes and bolt/screw size; splices for two wires and mechanically shielded spade connectors.



Part Number	Wire Size	Screw Size		Price
ES 322870	#2	AN5	\$	1.15
ES 324043	#8	AN3	\$	0.55
ES 324082	#8	AN4	\$	0.55
ES 324044	#8	AN5	\$	0.75
ES 35110	#12	AN4	\$	0.40
ES 321045	#14/16	AN4	\$	0.50
ES 320562	#14/16	SPLICE	\$	0.55
ES 320565	#14/16	#8	\$	0.25
ES 320619	#14/16	#6	\$	0.30
ES 421-0107 CONNECTOR	#14/16	MALE SPADE CONNECTOR	\$	0.40
ES 421-0108 CONNECTOR	#14/16	FEMALE SPADE CONNECTOR	\$	0.40
ES 31906	#14/16	#4	\$	0.35
ES 31890	#16/22	#8	\$	0.25
ES 320559	#18/22	SPLICE	\$	0.55
ES 36152	#16/22	#6	\$	0.25
ES 36154	#16/22	AN3	\$	0.30

## Electric Trim Components

Switches, Servo Motors, Servo Relay Deck, Wire

Electric trim requires the use of a small motor, a switch, interconnect wire and in some cases a special purpose relay and a speed controller to slow the response if desired. The servo motor is supplied with a switch which can be mounted on the panel or arm rest. While this works, in rough weather when the aircraft is bouncing around, exact trim may be hard to achieve. Using a switch in the stick grip resolves this problem, but then requires extra hardware.

- **MSTS-6A Mac Servo.** Small, light and powerful. Used to drive trim tabs. 12v DC. 40 lb thrust, 0.95" stroke, 11 second travel for aileron.
- **MSTS-8A Mac Servo.** Small, light and powerful. Used to drive trim tabs. 12v DC. 40 lb thrust, 1.2" stroke, 18 second travel for elevator.
- Six conductor wire for installing servos and servo indicators. Twenty foot length.
- 4-Way Switch for stick grips. Controls both elevator and aileron tabs. Switch comes with wooden MASTER GRIPS in our catalog.
- **MSTS-SRD (servo relay deck).** One required for each axis of trim between the 4 way switch and the servo motor.
- **SERVO SPEED CONTROL.** Allows builder to adjust trim servo speed.
- **ES MSTS POS-12.** Position sensor used for flap position input to EFIS displays.
- **ELECTRONIC SPEED CONTROLLER.** For use with MAC servos. Reduces servo speed without reducing torque. Allows use of multiple trim switches, so you can install trim for both seats. 12v DC. One required per servo. Installations using this controller do not need Servo Relay Deck.

<b>ES MSTS-6A</b>	0.95" stroke servo motor	\$	290.00
<b>ES MSTS-8A</b>	1.2" stroke servo motor	\$	305.00
<b>ES MSTS-WIRE</b>	Interconnect wire from servo to servo-relay deck [6X20']	\$	24.00
<b>ES MSTS-4-SW</b>	4 way trim switch-(Coolie Hat)	\$	74.00
<b>ES MSTS-SRD</b>	Servo relay deck	\$	46.00
<b>ES MSTS-SSC</b>	Speed controller	\$	47.00
<b>ES MSTS POS-12</b>	Position Sensor for Flap	\$	36.40
<b>ES MK-111</b>	Combination speed controller and relay deck	\$	68.00

## Heat Shrink Tube

Shrinks with Heat on Wire to Provide Electrical Insulation

4 diameters of black heat shrink tube as supplied in wiring kit. Sold in 1' lengths.

<b>ES HST-3/16X1'</b>	3/16" heat shrink, 1 foot length	\$	1.30
<b>ES HST-1/4X1'</b>	1/4" heat shrink, 1 foot length	\$	1.45
<b>ES HST-3/8X1'</b>	3/8" heat shrink, 1 foot length	\$	1.60
<b>ES HST-1/2X1'</b>	1/2" heat shrink, 1 foot length	\$	1.75

## Wire

Aircraft Quality, Tefzel Insulated

Pre-cut rolls of aircraft grade electrical wire. Free of PVC, which could save your bacon if you had an electrical overload causing a fire.

Part Number	Gauge	Length	Price
<b>WIRE #2X10'</b>	#2	10'	\$ 47.00
<b>WIRE #2X15'</b>	#2	15'	\$ 70.00
<b>WIRE #8X13'</b>	#8	13'	\$ 24.85
<b>WIRE #14X55'</b>	#14	55'	\$ 37.00
<b>WIRE #16X70'</b>	#16	70'	\$ 27.25
<b>WIRE #18X55'</b>	#18	50'	\$ 23.85
<b>WIRE #18X100'</b>	#18	100'	\$ 44.30
<b>WIRE #18SX20'</b>	#18 SHIELDED	20'	\$ 15.75
<b>WIRE #22X28'</b>	#22	25'	\$ 7.00
<b>WIRE #24X10' S</b>	#24 SHIELDED	10'	\$ 5.45
<b>WIRE #24X4CONDX10'S</b>	#24 SHIELDED 4 COND	10'	\$ 20.60

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## Nylon Wiring Conduit

Corrugated Tube for Installing in Wing for Wiring Conduit

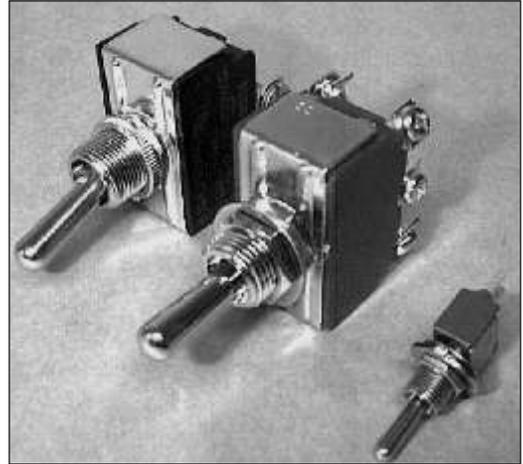
Nylon corrugated tube. 0.810" OD. Use for wire runs in the wings and fuselage. Suitable for engine compartment, but maintain 4-6" from exhaust system. Included in wiring kit.

<b>DUCT NT5/8-25</b>	25' roll of nylon corrugated tube	\$	19.30
<b>DUCT NT5/8-50</b>	50' roll of nylon corrugated tube	\$	35.00

## Switches

Toggle Switches for Master, Flap Control

- Full size double pole, single throw (DPST) toggle switch for Master Switch.
- Full size double pole-center off (DPDT-CO) momentary switch for panel mount flap control.
- Minature single pole double throw momentary switch for flap control in stick grip.



<b>ES 2GK54-73 SWITCH</b>	DPST ON/OFF switch for Master Switch	\$	7.95
<b>ES S338T</b>	DPDT-CO momentary Flap switch	\$	11.00
<b>ES SWITCH SPDT-MOM</b>	Small flap switch for grip	\$	8.00

## Fuses, Fuse Holders, Terminal Blocks

Misc Electrical Components

Misc. electrical components.

<b>ES B 18004-59</b>	Terminal Block (4 circuit)	\$	1.80
<b>ES FUSE 313005</b>	5 amp fuse	\$	1.00



## 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.

#### Toolbox Kit

##### Practice Project

The Toolbox Kit comes with documentation, along with all the parts and rivets needed to complete the toolbox. This training project consists of several pre-punched parts that are riveted together to form the box and lid and a hinge to hold them together.

This training project will give you the chance to try several different styles of riveting, using aluminum parts identical to those that make up the airplane. The completed toolbox is just the thing for a traveling tool kit when your RV is done or for holding your safety wire supplies, etc. Finished toolbox measures 16"L X 6"W X 4"H.

See the list of required tools needed to complete this project at: [www.vansaircraft.com/public/rqd.tool.htm](http://www.vansaircraft.com/public/rqd.tool.htm)



<b>TOOL BOX KIT</b>	Tool Box Kit Practice Project	\$ 28.00
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#### RV Training Project

##### Learn Basic Sheet Metal Skills

This is a training project used to introduce prospective RV builders to the materials and techniques used in putting together an RV kit. You'll assemble a short section of control surface and, in the process, learn the basic sheet metal skills needed during actual kit construction.

See the list of required tools needed to complete this project at: [www.vansaircraft.com/public/rqd.tool.htm](http://www.vansaircraft.com/public/rqd.tool.htm)



<b>RV TRAINING PROJECT-1</b>	Practice Project - Control Surface	\$ 35.00
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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.	\$ 4.25
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#### Replacement Tailwheel Springs

##### Deluxe Tailwheel Spring Set

Tail lynx is a deluxe tailwheel steering spring set retrofittable to RV type aircraft. Small in size, strong, and streamlined in shape, Tail Lynx are manufactured entirely of stainless steel parts, aircraft cable and cable fittings for best corrosion resistance.



<b>U TAIL LYNX</b>	Deluxe tailwheel spring set	\$ 145.00
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#### Retrofit Lockable Fuel Caps

##### Caps Fit in the Original Tank Flange

These fuel caps will fit in the original kit tank flange to provide a locking cap on a completed tank. Requires some **tank sealant (MC-236-B2 1/2)** to bond a new flange within the old flange. Will reduce the opening size, so larger gas nozzles may not fit (most are OK). New diameter is 1-3/8".

**Unvented: will not work on the RV-12.**



<b>FUEL CAP RETRO</b>	1 Retrofit Locking Fuel Cap	\$ 78.00
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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

3. Fax your order to 503.678.6560  
4. Use the order form to mail your order.

Van's Aircraft  
Ordering Options

**Deluxe Fuel Caps**  
Plain and Locking Fuel Caps

Deluxe fuel caps are produced for a variety of homebuilt planes. They can fairly easily be adapted for use in Van's Aircraft fuel tanks (except RV-12). They consist of the cap, flange for tank mounting, and key set.

The T-00007 caps are those used on the RV-14. Made from gray plastic (may be painted) with red anodized aluminum flange. These may also be used on all RVs (except RV-12). The punched hole in the tank skin will need to be enlarged slightly.

**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 W/LOCK</b>	Locking Cap w/Flange	\$	125.00
<b>T-00007</b>	Fuel Cap and Flange	\$	56.00

**IE F-385**  
Fuel Sending Units

Float type sending units and replacement gaskets are available for Stewart Warner, Isspro, and Van's fuel gauges. These units are resistive and operate between approximately 20-240 ohms. When the tanks are full the resistance is approximately 20 ohms, when empty the resistance is approximately 240 ohms.

<b>IE F-385B</b>	Sending unit for left tank	\$	29.00
<b>IE F-385C</b>	Sending unit for right tank	\$	29.00

**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	\$	12.00
<b>TAPE UHMW 3"X14'</b>	CLEAR UHMW TAPE 9/9A	\$	15.50

**Window Adhesive**  
Two-part Plexiglass Adhesive

The **IPS Weld-On 10182 4 oz. kit** is a two-part plexiglass adhesive for bonding windows into the RV-10 cabin lid. **Five** 4oz. kits are required per airplane (one kit per window).

One year shelf life.

**This item can only be shipped by FedEx or UPS Ground to the contiguous 48 states. Please contact the manufacturer for availability in other locations.**

Go to Van's Aircraft Inc.'s online catalog for link to **IPS® Corporation** contact page.



<b>WELD-ON #10 4 OZ</b>	Window Adhesive for one RV-10 window	\$	18.00
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**Rudder Pedal Conversion Kit**  
Change to the Overhead Rudder Pedals

Converts RV-6/6A from floor mounted pedals (for kits shipped prior to 1994), to new suspended overhead style.

<b>6RCK-A</b>	Convert to overhead rudder pedals in the RV-6/6A	\$	450.00
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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"). (Limited shelf life of approximately 4 months from purchase).



View the Tank Sealant Dispenser on page 111 in this catalog. Works with **MC-236B1/2** and **MC-CS-1900** sealant cartridges.

Van's does not stock this material. Orders for it will be drop shipped from PPG. Price includes shipping to the lower 48.

**This item cannot be shipped to Alaska, Hawaii or internationally. Requires signature upon delivery.**

<b>MC-CS-1900 W/SHIP</b>	Firewall Sealant 3.5 oz - price includes shipping	\$	95.00
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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 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 (two definitely needed for the RV-10/14). Includes accelerator. Sealing compound and accelerator are mixed by WEIGHT at a ratio of 10:1 (2 hour working time). 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 (3.5 ounces)**

Fuel tank sealant in a smaller quantity in a convenient package. Very useful for the odd small job on the tank or riveted trailing edges. Same 2 hr work time as MC-236-B2.

View the Tank Sealant Dispenser in this catalog. Works with **MC-236B1/2** and **MC-CS-1900** sealant cartridges.

**MC-240-B1/2 (1 ounce)**

Includes accelerator and is a 1 ounce quantity (1/2 hour working time). Enough to fix an access panel on the fuel tank, or for the RV-7/9 rudder trailing edge. Faster cure time than the types above.

<b>MC-236-B2</b>	Tank sealant with accelerator QUART KIT	\$	39.30
<b>MC-236-B1/2</b>	Tank sealant with accelerator 3.5 OUNCE SIZE	\$	17.00
<b>MC-240-B1/2</b>	Tank sealant with accelerator 1 OUNCE SIZE	\$	10.00

**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	\$	6.95
<b>T-407 GASKET</b>	Prepunched cover gasket	\$	2.30

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3. Fax your order to 503.678.6560  
4. Use the order form to mail your order.

Van's Aircraft  
Ordering Options

**Polygone Gel**  
Tank Sealant Remover

PolyGone 300-AG is a gel designed to penetrate, break down, and emulsify tenacious sealants, such as the tank sealants commonly used on RVs. A useful aid if you have to remove and clean the tank access plates, remove sealant from clevos etc. 6oz size.



<b>POLYGONE 300AG</b>	Sealant Remover Gel	\$	28.00
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**Inverted Fuel Pick-Up**  
'Flop-Tube'; Install in One Tank for Inverted Flight

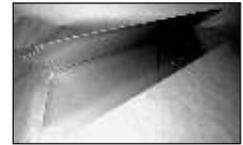
If you intend to perform "sustained" inverted flight in your RV then you will need to purchase and install a "flop tube" in at least one of the fuel tanks. Your engine will also require an inverted oil system as well as fuel injection. Choose IF-3F for the RV-3 fuselage tank, the IF-3W for RV-3 wing 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-9/9A or RV-10.



<b>IF-3F</b>	RV-3 Fuselage tank flop tube	\$	40.00
<b>IF-3W</b>	RV-3 Wing tank flop tube	\$	40.00
<b>IF-4/6</b>	RV-4/6/6A/7/7A/8/8A Wing tank flop tube	\$	38.00

**Trim Tab Skin**  
Replacement Skins for Elevator Trim Tab

So, your #\*!@ tab didn't quite come out the way you wanted it? 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	\$	12.75
<b>TRIM TAB SKIN-020</b>	Non prepunched 0.020 elevator trim tab skin for RV-4,6,8	\$	14.00
<b>E-619PP-1-020</b>	Prepunched 0.020 elevator trim tab skin for RV-7/7A/8/8A	\$	18.00
<b>E-919</b>	Prepunched 0.020 elevator trim tab skin for RV-9A/RV-10 Left	\$	23.50

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

No mounting brackets nor instructions are included.  
Will not work on Full Swivel Tailwheel Assembly.  
Good luck!



<b>TWF-T</b>	Tail wheel fairing	\$	53.00
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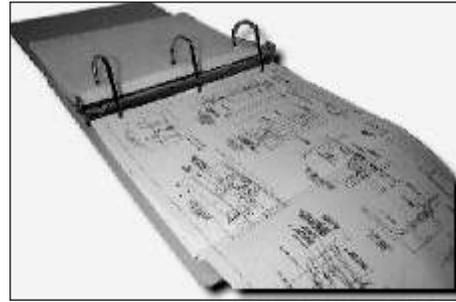
**Gear Leg Fairings**  
Fairings Increase the Speed of Your Aircraft Over 7mph

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	\$	175.00
<b>GEAR LEG FAIRING NOSE</b>	Fiberglass fairing for the nose strut (gear) of all trike models	\$	75.00
<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.	\$	175.00
<b>GEAR LEG FAIRINGS</b>	Traditional metal gear leg fairing previously used on all models of RV's.	\$	60.00

Preview Plans Set  
The First Step



**Available for all RVs, except the RV-10 & RV-12**

It's time to start on your RV! The preview plans set is the first step in the actual construction project. 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. The Preview Plans give the builder a "big picture" view of the entire construction of the aircraft.

**There is a \$5.00 flat rate shipping charge for Preview Plans shipped within the Continental United States via UPS/FedEX GROUND ONLY.** For shipping outside of the Continental United States and other requested types of shipping there will be an additional shipping charge to the customer.

For your information: It actually costs more to ship a "Preview Plans Set" via the United States Postal Service (USPS) within the Continental United States than it does to ship via UPS/FedEX GROUND. There are no shipping costs if Preview Plans are purchased and shipped with your Empennage Kit.

<b>PREVIEW SET RV-3</b>	Plans/Manual for the RV-3	\$	45.00
<b>PREVIEW SET RV-4</b>	Plans/Manual for the RV-4	\$	50.00
<b>PREVIEW SET RV-6/6A</b>	Plans/Manual for the RV-6/6A	\$	55.00
<b>PREVIEW SET RV-7/7A</b>	Plans/Manual for the RV-7/7A	\$	55.00
<b>PREVIEW SET 8/8A-1</b>	Plans/Manual for the RV-8/8A	\$	55.00
<b>PREVIEW SET RV-9/9A</b>	Plans/Manual for the RV-9/9A	\$	55.00
<b>PLAN PAGE REPLACEMENT</b>	Page replacement for plans. Specify page number and RV model in the notes area when ordering.	\$	3.00

Plans, Manual and more on a CD

Available for All Models

Get your entire kit plans\*, manual, OP Drawings, catalog, and other reference material in the PDF format on a CD from Van's Aircraft.

(\*RV-14/14A partial plans set available at this time.)

Load it up to your laptop, iPad, or your other favorite electronic device for use at work, or in the hanger.

<b>CD PLANS RV-3</b>	CD PLANS/MANUAL RV-3	\$	10.00
<b>CD PLANS RV-4</b>	CD PLANS/MANUAL RV-4	\$	10.00
<b>CD PLANS RV-6/6A</b>	CD PLANS/MANUAL RV-6/6A	\$	10.00
<b>CD PLANS RV-7/7A</b>	CD PLANS/MANUAL RV-7/7A	\$	10.00
<b>CD PLANS RV-8/8A</b>	CD PLANS/MANUAL RV-8/8A	\$	10.00
<b>CD PLANS RV-9/9A</b>	CD PLANS/MANUAL RV-9/9A	\$	10.00
<b>CD PLANS RV-10</b>	CD PLANS/MANUAL RV-10	\$	10.00
<b>CD PLANS RV-12</b>	CD PLANS/MANUAL RV-12	\$	10.00
<b>CD PLANS RV-14</b>	CD PLANS/MANUAL RV-14*	\$	10.00

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2. Call our order line at 503.678.6545

3. Fax your order to 503.678.6560  
4. Use the order form to mail your order.

Van's Aircraft  
Ordering Options

## Accessories Catalog CATALOG 2015-2016

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.



CATALOG 2015-2016	ACCESSORY CATALOG	\$	0.00
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### Info Pack / Video / DVD

Van's Info Pack/Video, or Info Pack/DVD includes a complete brochure and "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 Van's models are covered.

### Info Pack / RV Story

Includes a Complete Brochure and DVD

**Van's Info Pack/DVD** includes a complete brochure and "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 Van's models are covered.

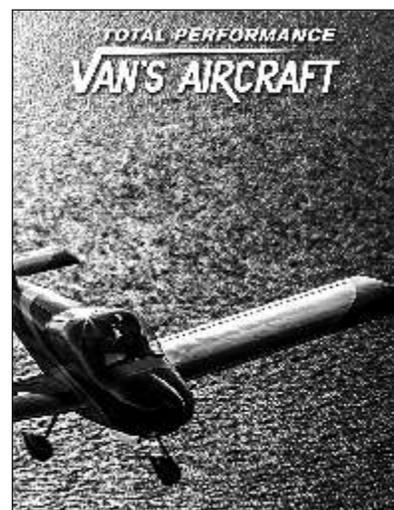
"**The RV Story**" on DVD covers the capabilities of the various models. Some are pretty impressive! It also illustrates design theory and construction technique. Many builders have played the "RV Story" many times, just for the inspirational value, and they've ordered a second copy before their airplane flies!

The DVD may be ordered with the Info Pack, or individually.

Shipping and Handling charges do not apply to Info Packs or Info Pack/DVD combinations when **you select** "Domestic: Regular" or "International Mail" listed under USPS (United States Postal Service) shipping.

There is an additional shipping/handling charge if you select expedited or other types of shipping...ie: UPS, Fed Ex, etc.

You **must select** a specific means of shipping in order for Van's to process your order.



<b>INFO PACK W/DVD</b>	Info Pack with RV Story DVD In USA	\$	16.00
<b>INFO PACK W/DVD INTL</b>	Info Pack with RV Story DVD Outside USA	\$	22.00
<b>INFO PACK (DOMESTIC)</b>	Info Pack Only In USA	\$	8.00
<b>INFO PACK (INTN'L)</b>	Info Pack Only Outside USA	\$	11.00
<b>DVD RV STORY DOMESTIC</b>	RV Story DVD Only In USA	\$	10.00
<b>DVD RV STORY INTL</b>	RV Story DVD Only Outside USA	\$	13.00

Books of Interest to RV Builders and Pilots

27 Years of the RVator

Articles Have Been Excerpted and Combined from 1980 thru 2006

CD collection with selected Rvator articles spanning the years 1980 thru 2006. All back issues of the RVator are not available, but much information and history is preserved here. Load it on your laptop to browse and search easily. Requires Adobe reader to be installed (included on CD).



<b>CD RVATOR 27 YEARS</b>	CD 1980-2006 Collection	\$ 25.00
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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	\$ 20.00
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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	\$ 28.00
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Kit Airplane Construction

by Ronald J. Wanttaja

Featuring new and classic kitplane designs, this proven bestseller is the most current and comprehensive resource available on choosing, building, and flying homebuilt planes. Covering tubing and fabric, wood, traditional sheet metal, and the latest composites, Kit Airplane Construction uses step-by-step instructions and detailed case studies of kitplane models to give amateur plane builders the knowledge needed to create and fly their own aircraft.



<b>BOOK KITPLANE CONST</b>	Kit Airplane Construction - R.J. Wanttaja	\$ 23.00
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 2. Call our order line at 503.678.6545

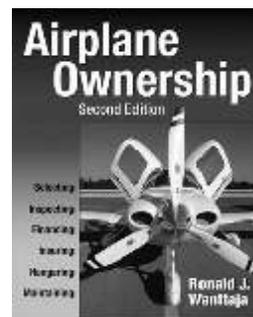
3. Fax your order to 503.678.6560  
 4. Use the order form to mail your order.

Van's Aircraft  
 Ordering Options

## Airplane Ownership

by Ronald J. Wanttaja

For the first-time airplane buyer, this book is an invaluable resource and guide. The award-winning author offers money-saving information on everything a private pilot needs to consider before and after buying a plane: selection, purchasing, financing, hangaring, maintenance, legal issues, and much more.



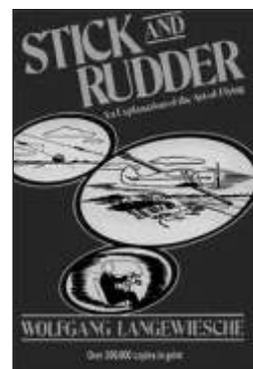
<b>BOOK AIRPLANE OWNER</b>	Airplane Ownership- R.J. Wanttaja	\$ 18.50
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## Stick and Rudder

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	\$ 14.00
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## 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.

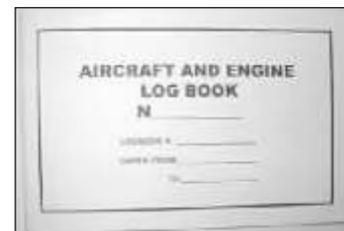


<b>BOOK BUILDER LOGBOOK</b>	Aircraft Builder's Logbook	\$ 19.00
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### Logbook for Engine and Airframe Maintenance

Logbooks for Conditional Inspections as Required Maintenance

Typically three logbooks are required: Airframe, Powerplant and Propeller. Most new propellers come with a logbook.



<b>BOOK LOG ENG &amp; AF</b>	Logbook for engine and airframe	\$ 5.00
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DVDs

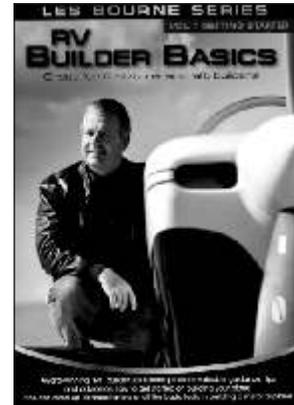
Many new builders (of every RV model) have commented on the value of being able to SEE an operation before attempting it.

Vol. 1 "Getting Started"

DVD

In this 98 min video, award-winning builder Les Bourne teaches new RV builders (and prospective builders) about:

- Getting organized
- Setting up a good workshop
- Introduction to aircraft tools and their proper use (Cutting, drilling, deburring, countersinking, riveting, etc.)
- Construction practices and standards
- Reading blueprints and plans
- Builder's resources, and where to get help
- And much more!



<b>DVD BUILDER BASICS</b>	Getting Started DVD	<b>\$ 34.00</b>
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Vol. 2 "Mounting the Wings and Tail"

DVD

Two of the really critical RV building tasks are attaching the wings and the empennage. This video will give you the confidence to tackle these critical jobs yourself and get them mounted as perfectly as possible. You'll see:

- Mounting the Wings
- Aligning, Leveling and Measuring
- Construction practices and standards
- Setting the Angle of Incidence
- Drilling the Aft Spar Attach Holes
- Mounting the Horizontal Stabilizer
- Mounting the Vertical Stabilizer



<b>DVD BB RIGGING</b>	Mounting the Wings and Tail DVD	<b>\$ 34.00</b>
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Construction, Tools, and Fiberglass

DVDs

Watch a product being built step-by-step.



<b>DVD TOOLS</b>	Tools of the trade	<b>\$ 16.00</b>
<b>DVD EMP 6/7/8 PP</b>	Pre-punched emp construction	<b>\$ 39.00</b>
<b>DVD EMP 9/9A</b>	Empennage construction	<b>\$ 34.00</b>
<b>DVD WING 7/8 PP</b>	Jig, wing, aileron, tank, flap	<b>\$ 40.00</b>
<b>DVD SYSTEMS</b>	Engine controls, fuel and electrical systems	<b>\$ 45.00</b>

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Van's Aircraft  
 Ordering Options

Personal Attire

RV-14  
T-Shirt

Blue shirt with cutaway RV-14 screen printed on back and Van's Total Performance logo on front. No Pocket.



<b>SHIRT 14 BLUE-MED</b>	Medium	\$	10.00
<b>SHIRT 14 BLUE-L</b>	Large	\$	10.00
<b>SHIRT 14 BLUE-XL</b>	Extra Large	\$	10.00
<b>SHIRT 14 BLUE-XXL</b>	Extra Extra Large	\$	10.00

Pocket T-Shirt  
with Embroidered Logo

Preshrunk Pocket T-Shirt with the **Van's Total Performance** logo embroidered on the front. Available in assorted sizes and colors.



<b>SHIRT T ASH LG</b>	Large - Ash	\$	10.00
<b>SHIRT T ASH XL</b>	Extra Large - Ash	\$	10.00
<b>SHIRT T ASH XXL</b>	Extra Extra Large - Ash	\$	12.00
<b>SHIRT T F.GREEN LG</b>	Large - Forest Green	\$	10.00
<b>SHIRT T F.GREEN XL</b>	Extra Large - Forest Green	\$	10.00
<b>SHIRT T F.GREEN XXL</b>	Extra Extra Large - Forest Green	\$	12.00
<b>SHIRT T NAVY LG</b>	Large - Navy Blue	\$	10.00
<b>SHIRT T NAVY XL</b>	Extra Large - Navy Blue	\$	10.00
<b>SHIRT T NAVY XXL</b>	Extra Extra Large - Navy Blue	\$	12.00
<b>SHIRT T RED LG</b>	Large - Red	\$	10.00
<b>SHIRT T RED XL</b>	Extra Large - Red	\$	10.00
<b>SHIRT T RED XXL</b>	Extra Extra Large - Red	\$	12.00

### Van's Air Force

A Number of Items With the VAF (Van's Air Force) Logo  
.... Data Plate, Shirts, Cap, and Decal

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>	Black Cap with VAF Emblem	\$	10.00
<b>VAF EXPER DATA PLATE</b>	Stainless Steel Data Plate	\$	12.50
<b>VAF DECAL 5"</b>	Decal	\$	4.00
<b>SHIRT VAF SMALL</b>	Small Shirt Light Grey	\$	10.00
<b>SHIRT VAF MEDIUM</b>	Medium Shirt Light Grey	\$	10.00
<b>SHIRT VAF LARGE</b>	Large Shirt Light Grey	\$	10.00
<b>SHIRT VAF X-LRG</b>	X-Lrg Shirt Light Grey	\$	10.00
<b>SHIRT VAF XX-LRG</b>	XX-Lrg Shirt Light Grey	\$	10.00

### Polo Shirts

Knit Sport Shirts

"Port Authority" and "Gildan" make 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
<b>SHIRT POLO BRGNDY MED</b>	BURGUNDY	MEDIUM	\$ 15.00
<b>SHIRT POLO BURGNDY LG</b>	BURGUNDY	LARGE	\$ 15.00
<b>SHIRT POLO BURGNDY.XL</b>	BURGUNDY	EXTRA LARGE	\$ 15.00
<b>SHIRT POLO BLUE MED</b>	BLUE	MEDIUM	\$ 15.00
<b>SHIRT POLO BLUE LG</b>	BLUE	LARGE	\$ 15.00
<b>SHIRT POLO BLUE XL</b>	BLUE	EXTRA LARGE	\$ 15.00
<b>SHIRT POLO NAVY MED</b>	NAVY	MEDIUM	\$ 15.00
<b>SHIRT POLO NAVY LG</b>	NAVY	LARGE	\$ 15.00
<b>SHIRT POLO NAVY XL</b>	NAVY	EXTRA LARGE	\$ 15.00
<b>SHIRT POLO D.GRN. MED</b>	DARK GREEN	MEDIUM	\$ 15.00
<b>SHIRT POLO D.GREEN LG</b>	DARK GREEN	LARGE	\$ 15.00
<b>SHIRT POLO D.GREEN XL</b>	DARK GREEN	EXTRA LARGE	\$ 15.00
<b>SHIRT POLO RED MED</b>	RED	MEDIUM	\$ 15.00
<b>SHIRT POLO RED LG</b>	RED	LARGE	\$ 15.00
<b>SHIRT POLO RED XL</b>	RED	EXTRA LARGE	\$ 15.00

1. Shop on-line at [www.vansaircraft.com](http://www.vansaircraft.com)  
2. Call our order line at 503.678.6545

3. Fax your order to 503.678.6560  
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Van's Aircraft  
Ordering Options

Van's Sweatshirts  
Long Sleeve Quarter Zip Pullover

80% Cotton 20% Polyester 10 oz.  
Long sleeve 1/4 zip double  
stitched pullover with rib cuffs and  
waistband. Collar contrasted with  
matching rib knit. Van's  
Aircraft/Total Performance logo  
on left breast.

Colors: Navy, Gray, Sizes L-XXL.  
**Sizes run large**



Part Number	Size	Color	Price
<b>SWEATSHIRT L NAVY</b>	Large	Navy	\$ 25.00
<b>SWEATSHIRT XL NAVY</b>	Extra Large	Navy	\$ 25.00
<b>SWEATSHIRT XXL NAVY</b>	Extra Extra Large	Navy	\$ 28.00
<b>SWEATSHIRT L OXFORD</b>	Large	Gray	\$ 25.00
<b>SWEATSHIRT XL OXFORD</b>	Extra Large	Gray	\$ 25.00
<b>SWEATSHIRT XXL OXFORD</b>	Extra Extra Large	Gray	\$ 28.00

Custom Embroidered Shirts

Go to [www.rvshirtsnmore.com](http://www.rvshirtsnmore.com)

Van's Cap  
Low Profile Style

These caps have "Total Performance Van's  
**Aircraft**" embroidered on the cap. One size fits all.  
Stone color. No button on top for headset comfort.



<b>CAP TP.STONE</b>	Van's Low Profile Style Cap	\$ 10.00
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Miscellaneous Items

Folding Bike

Fits into side-by-side RVs

Van's has partnered with Oregon bike manufacturer **Bike Friday** to supply quality bikes to RV builders at attractive prices.

The Tikit™ folding bike weighs 25lb and occupies only a 15"x 24"x 35" space when folded, allowing two to fit into side-by-side RVs. It folds and unfolds in seconds with no tools required, but is sturdy and rides well. 8 speeds. Comes with fenders, saddle, pedals and a bell.

Van's stocks some bikes for immediate shipping and test rides at Aurora. Call for available colors and sizes.

Any RV builder who wishes to order other Bike Friday products (they have a large range of customizable bikes), can contact Bike Friday direct and get a discount or upgrade by mentioning that they are a Van's referral.

Go to Van's Aircraft Inc.'s website to find links for viewing how easily it folds! - video on *youtube*, or to find the *Bike Friday* website to view additional products.

Not available through the Web Store.

**Call the Order Department at 503-678-6545 to order this item.**



<b>BIKE TIKIT-SM</b>	Folding Bike - Large Frame	\$ 995.00
<b>BIKE TIKIT-LG</b>	Folding Bike - Small Frame	\$ 995.00

Gift Certificate

Van's Aircraft Gift Certificate

Not sure what to get. A Van's Aircraft Gift Certificate makes a great gift.

Please use the Gift Certificate Order form.



**SPECIAL ORDER FORM REQUIRED:** <http://www.vansaircraft.com/public/orderfrm.htm> or contact Van's Aircraft, Inc.

<b>GIFT CERTIFICATE</b>	▲ VAN'S AIRCRAFT	\$ ??.00
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Van's Aircraft  
 Ordering Options

## Tools

**For a recommended tool list go to:**  
<http://www.vansaircraft.com/public/tools.htm>

Van's stocks a few tools as a convenience to our customers. We are not tool specialists.  
Below is a partial list of tool suppliers. \* These tool suppliers are **RV builders**.

TOOLS

**Aircraft Spruce East**  
452 Dividend Drive, Peachtree City, GA 30269  
Customer Service: 1-800-861-3192  
Phone: 770-487-2310 | Fax: 770-487-2308  
e-mail: [info@aircraft-spruce.com](mailto:info@aircraft-spruce.com)  
<http://www.aircraft-spruce.com>

**Aircraft Spruce West  
and Administrative Offices**  
225 Airport Circle, Corona, CA 92880  
Customer Service: 1-800-861-3192  
Phone: 951-372-9555 | Fax: 951-372-0555  
e-mail: [info@aircraft-spruce.com](mailto:info@aircraft-spruce.com)  
<http://www.aircraft-spruce.com>

**Aircraft Tool Supply Company**  
P.O. Box 370, 1000 Old U.S. 23, Oscoda, MI 48750  
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)  
<http://www.aircraft-tool.com>

**Avery Tools LP\***  
111 Aviator Drive, Ft. Worth, TX 76179  
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)  
<http://www.averytools.com>

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

**Cleveland Aircraft Tool and Material\***  
2225 First Street, Boone, IA 50036  
Order Phone: 1-800-368-1822  
Questions: 515-432-6794 | Fax: 515-432-7804  
e-mail: [mail@clevelandtool.com](mailto:mail@clevelandtool.com)  
<http://www.clevelandtoolstore.com>

**Clinton Aircraft Tool & Supply, Inc.**  
P.O. Box 1517, Woodstock, GA 30189  
Phone: 404-766-3222 | Fax: 678-445-7242

**Gloster Air Parts \***  
27 Portland Drive  
Church Crookham, Hants. GU52 6PQ, UK  
Phone: 01252 617484  
e-mail: [sales@glosterairparts.co.uk](mailto:sales@glosterairparts.co.uk)  
<http://www.glosterairparts.co.uk/>

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

**PlanesFactory by Tools and Co. Srl\***  
Via Tufarole 21  
83100 Avellino, ITALY  
Phone: +39.0825.756.558 | Fax: +39.0825.771.868  
e-mail: contact via website  
<http://www.planesfactory.it/en/>

**The Yard**  
715 E 10th, Wichita, KS 67214  
Phone: 800-888-8991 | Fax: 316-265-9532  
e-mail: [toolroom@yardstore.com](mailto:toolroom@yardstore.com)  
<http://www.yardstore.com>

**U.S. Industrial Tool & Supply  
Company**  
14083 S Normandie Ave., Gardena, CA. 90249  
Phone: 1-800-521-7394 | Fax: 310-464-8880  
e-mail: [info@ustool.com](mailto:info@ustool.com)  
<http://www.ustool.com>

**Wicks Aircraft Supply**  
410 Pine Street, P.O. Box 304, Highland, IL 62249  
Toll Free Phone: 1-800-221-9425  
Toll Free Fax: 1-888-440-5727  
e-mail: [Info@wicksaircraft.com](mailto:Info@wicksaircraft.com)  
<http://www.wicksaircraft.com/>

### Aeroquip Hose Tool

Fits -4, -6, and -8 Sizes

Hose tool greatly simplifies assembly of steel braided hoses. Fits -4 (1/4"), -6 (3/8") and -8 (1/2") sizes typically used in RV installations.

See the Aeroquip hose parts in the Hardware Section.



<b>TOOL HOSE ASSY</b>	Aeroquip Hose Tool	\$	75.00
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### Tank Sealant Dispenser

Simple Way to Apply Sealants

Dispenser for tank and firewall sealant. Works with MC-236B1/2 and MC-CS-1900 sealant cartridges. A convenient and simple way to apply these sealants.



<b>TOOL SEALANT GUN</b>	Dispenser for Tank and Firewall Sealant	\$	17.00
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### Axle Wrench

Inexpensive, Light, and Useful

Tired of using a four-pound 16" Crescent wrench to remove your wheel nuts? Here's an alternative in the best Van's tradition: inexpensive, light and useful.

Kit includes rivets and pre-punched components which rivet together within minutes to create an effective wrench that won't hurt the nuts and weighs ounces. Fits 1 1/2" nuts on two place RVs. **Not for larger RV-10 nuts.**



<b>TOOL AXLE WRENCH</b>	Kit for 1 1/2" Axle Nut Wrench	\$	8.00
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### 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 a Two-Place RV. Quickbuilders may get by with fewer...but ending up short is frustrating and they aren't that expensive.

Part Number	Size	Qty Required	Price
<b>TOOL CL332</b>	3/32"	325	\$ 0.45
<b>TOOL CL18</b>	1/8"	175	\$ 0.45
<b>TOOL CL316</b>	3/16"	12	\$ 0.45

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Van's Aircraft  
 Ordering Options

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>	STAINLESS 1 LB	\$	9.75
<b>WIRE SAFETY .041</b>	STAINLESS 1 LB	\$	9.75

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	\$	1.85
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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 RIVETERS</b>	Riveters Tape	\$	12.50
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3M F9460PC Tape  
Double-Sided for Construction

Used for control surface trailing edge assemblies (replaces the older tank sealant method).  
1 roll (1/2" x 60 yards) will suffice for a complete airplane, even the RV-10.

<b>TAPE 3M F9460PC VHB</b>	Double Sided Bonding Tape	\$	23.00
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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, 1/2" arbor.

<b>TOOL SBW</b>	Scotchbrite Wheel	\$	73.00
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Boelube  
Paste Lubricant

A paste style lubricant designed to prevent aluminum adhesion on drill bits. Also applicable to taps, reamers, files and deburring tools.



<b>TOOL BOELUBE PASTE</b>	Drill Lubricant	\$	3.75
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Air Wolf Filter Cutter  
Oil Filter Inspection Tool

Oil filter cutter by Air Wolf.  
It's standard aviation maintenance practice to examine the interior of your used oil filter at each oil change. This unit is the best we have used for cutting the housing away without putting metal chips into the filter media.  
Does not fit the smaller filters used on the Rotax 912.



<b>EA OIL FILTER CUTTER</b>	AIR-WOLF	\$	83.00
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Van's Aircraft  
Ordering Options

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3. Fax your order to 503.678.6560
4. Use the order form to mail your order.

**Canopy Scratch Kit**  
Restores Optical Clarity

Scratches on your canopy?

Developed for the Aerospace industry in 1994, Scratch-Off™ has been hard at work restoring optical clarity to acrylics and polycarbonates worldwide. This easy scratch/defect removal system walks you through a thorough step by step process utilizing the most technically advanced system components available.



<b>CA SCRATCH OFF</b>	Canopy Scratch Kit	<b>\$</b>	34.50
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**Canopy Cleaner**  
Plexus Windshield Polish and Cleaner

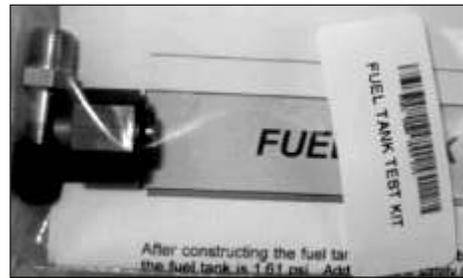
This is the best product we have found for getting the bugs off of the windshield!!  
**This item can only be shipped by FedEx or UPS Ground to the contiguous 48 states.**



<b>CA CANOPY CLEANER</b>	7 OZ PLEXUS POLISH	<b>\$</b>	18.00
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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	<b>\$</b>	6.00
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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

3. Fax your order to 503.678.6560  
4. Use the order form to mail your order.

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	\$	0.20
AN3-4	3/16	1/8	\$	0.63
AN3-4A	3/16	1/8	\$	0.20
AN3-5	3/16	1/4	\$	0.92
AN3-5A	3/16	1/4	\$	0.20
AN3-6	3/16	3/8	\$	0.96
AN3-6A	3/16	3/8	\$	0.20
AN3-7	3/16	1/2	\$	0.92
AN3-7A	3/16	1/2	\$	0.24
AN3-10	3/16	5/8	\$	0.93
AN3-10A	3/16	5/8	\$	0.28
AN3-11	3/16	3/4	\$	1.00
AN3-11A	3/16	3/4	\$	0.28
AN3-12	3/16	7/8	\$	0.88
AN3-12A	3/16	7/8	\$	0.36
AN3-13A	3/16	1"	\$	0.40
AN3-14	3/16	1 1/8	\$	0.92
AN3-14A	3/16	1 1/8	\$	0.36
AN3-15	3/16	1 1/4	\$	0.80
AN3-15A	3/16	1 1/4	\$	0.44
AN3-16A	3/16	1 3/8	\$	0.48
AN3-17A	3/16	1 1/2	\$	0.52
AN3-20A	3/16	1 5/8	\$	0.52
AN3-21	3/16	1 3/4	\$	0.72
AN3-21A	3/16	1 3/4	\$	0.68
AN3-22A	3/16	1 7/8	\$	0.64
AN3-23A	3/16	2"	\$	0.60
AN3-24A	3/16	2 1/8	\$	0.96
AN3-25A	3/16	2 1/4	\$	0.92
AN3-27A	3/16	2 1/2	\$	1.12
AN3-33A	3/16	3"	\$	1.24
AN3-36A	3/16	3 3/8	\$	1.52
AN3-42A	3/16	3 7/8	\$	2.36
AN3-52	3/16	4 7/8	\$	6.30
AN4-3A	1/4	1/16	\$	0.20
AN4-4	1/4	1/16	\$	0.40
AN4-4A	1/4	1/16	\$	0.18
AN4H4A	1/4	1/16	\$	0.60

Part #	Dia	Grip		Price
AN4-5	1/4	3/16	\$	0.95
AN4-5A	1/4	3/16	\$	0.17
AN4-6	1/4	5/16	\$	0.63
AN4-6A	1/4	5/16	\$	0.20
AN4H6A	1/4	5/16	\$	0.69
AN4-7	1/4	7/16	\$	0.55
AN4-7A	1/4	7/16	\$	0.30
AN4-10	1/4	9/16	\$	0.69
AN4-10A	1/4	9/16	\$	0.26
AN4-11	1/4	11/16	\$	0.63
AN4-11A	1/4	11/16	\$	0.31
AN4-12	1/4	13/16	\$	0.71
AN4-12A	1/4	13/16	\$	0.34
AN4-13	1/4	15/16	\$	0.74
AN4-13A	1/4	15/16	\$	0.37
AN4-14	1/4	1 1/16	\$	0.66
AN4-14A	1/4	1 1/16	\$	0.37
AN4-15A	1/4	1 3/16	\$	0.40
AN4-16	1/4	1 5/16	\$	0.66
AN4-16A	1/4	1 5/16	\$	0.43
AN4-17A	1/4	1 7/16	\$	0.46
AN4-20A	1/4	1 9/16	\$	0.66
AN4-21	1/4	1 11/16	\$	0.80
AN4-21A	1/4	1 11/16	\$	0.51
AN4-22A	1/4	1 13/16	\$	0.75
AN4-23A	1/4	1 15/16	\$	0.49
AN4-24	1/4	2 1/16	\$	0.49
AN4-25	1/4	2 3/16	\$	0.54
AN4-25A	1/4	2 3/16	\$	0.51
AN4-26	1/4	2 5/16	\$	0.89
AN4-26A	1/4	2 5/16	\$	0.63
AN4-27	1/4	2 7/16	\$	0.86
AN4-27A	1/4	2 7/16	\$	0.83
AN4-30A	1/4	2 9/16	\$	0.54
AN4H30A	1/4	2 9/16	\$	0.72
AN4-31A	1/4	2 11/16	\$	0.80
AN4-32A	1/4	2 3/16	\$	1.20
AN4-34	1/4	3 1/16	\$	1.94

## 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
AN5-4A	5/16	1/16	\$ 0.28
AN5-5A	5/16	3/16	\$ 0.30
AN5-6A	5/16	5/16	\$ 0.40
AN5-7	5/16	7/16	\$ 0.78
AN5-7A	5/16	7/16	\$ 0.40
AN5-10A	5/16	9/16	\$ 0.49
AN5-11A	5/16	11/16	\$ 0.49
AN5-13A	5/16	15/16	\$ 0.51
AN5-16A	5/16	1 5/16	\$ 0.77
AN5-17A	5/16	1 7/16	\$ 0.89
AN5-20A	5/16	1 9/16	\$ 0.89
AN5-21A	5/16	1 11/16	\$ 0.71
AN5-22	5/16	1 13/16	\$ 1.15
AN5-22A	5/16	1 13/16	\$ 0.89
AN5-24A	5/16	2 1/16	\$ 1.09
AN5-25A	5/16	2 3/16	\$ 0.71

Part #	Dia	Grip	Price
AN5-27A	5/16	2 7/16	\$ 0.89
AN5-50A	5/16	4 9/16	\$ 3.20
AN5-52A	5/16	4 13/16	\$ 8.75
AN6-12A	3/8	11/16	\$ 0.63
AN6-17A	3/8	1 5/16	\$ 0.55
AN6-20A	3/8	1 7/16	\$ 0.71
AN6-21A	3/8	1 9/16	\$ 0.74
AN6-24	3/8	1 15/16	\$ 1.20
AN6-30	3/8	2 7/16	\$ 1.77
AN6-31	3/8	2 9/16	\$ 1.50
AN6-32	3/8	2 11/16	\$ 2.00
AN6-34	3/8	2 15/16	\$ 3.50
AN6-53	3/8	4 13/16	\$ 14.25
AN6-60A	3/8	5 7/16	\$ 11.50
AN7-20	7/16	1 7/16	\$ 1.70

Part #	DIA	GRIP	Price
AN7-20A	7/16	1 7/16	\$ 1.50
AN7-21	7/16	1 9/16	\$ 2.10
AN7-21A	7/16	1 9/16	\$ 3.00
AN7-43	7/16	3 13/16	\$ 6.90
AN7-44	7/16	3 15/16	\$ 7.25
AN7H82AP	7/16	7 1/16	\$ 22.00
AN8-22A	1/2	1 9/16	\$ 2.60
AN8-44	1/2	3 13/16	\$ 7.40
AN8-45	1/2	3 15/16	\$ 8.00
AN8-50	1/2	4 5/16	\$ 15.00
AN8-52	1/2	4 9/16	\$ 15.00
AN8-63A	1/2	5 11/16	\$ 15.00
AN8H82AP	1/2	7 1/16	\$ 24.00
AN103127	3/8		\$ 4.90
AN103224	7/16		\$ 4.10

## Clevis Bolts and Pins

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
AN23-8	AN3	3/16	\$ 0.80
AN23-9	AN3	1/4	\$ 1.10
AN23-10	AN3	5/16	\$ 1.20
AN23-11	AN3	3/8	\$ 0.95

Part #	Dia	Grip	Price
AN23-15	AN3	5/8	\$ 1.40
AN23-19A	AN3	7/8	\$ 1.10
AN23-25	AN3	1 1/4	\$ 18.50
AN23-29A	AN3	1 1/2	\$ 1.20
AN24-31	AN4	1 5/8	\$ 2.20

Part #	Dia	Grip	Price
MS20392-1C11	1/8	0.344	\$ 0.40
MS20392-2C11	3/16	0.344	\$ 0.63
MS20392-2C13	3/16	0.406	\$ 0.50
MS20392-2C53	3/16	1.656	\$ 0.90
MS20392-3C21	1/4	0.656	\$ 0.70

## Close Tolerance Bolts

Spar Bolts

Bolts used in applications where a tight fit is required.

Part #	Dia	Grip	Price
NAS1304-26	1/4	1.625	\$ 1.00
NAS1304-30	1/4	1.875	\$ 2.85
NAS1304-32	1/4	2"	\$ 2.85
NAS1304-50	1/4	3.125	\$ 4.95

Part #	Dia	Grip	Price
NAS1305-26	5/16	1.625	\$ 5.40
NAS1306-26	3/8	1.625	\$ 6.00
NAS1306-30	3/8	1.875	\$ 4.25

Part #	Dia	Grip	Price
NAS1306-32	3/8	2"	\$ 6.50
NAS1307-50	7/16	3.125	\$ 11.00
NAS6206-27	3/8	1.687	\$ 5.70

## Hex Head Bolts (non AN)

Commercial grade bolts.

Part Number	Dia	Length	Price
BOLT HEX 1/4-20X1	1/4-20	1"	\$ 0.10
BOLT HEX 1/4-20X1/2	1/4-20	1/2"	\$ 0.25
BOLT HEX 1/4-20X3/4	1/4-20	3/4"	\$ 0.15
BOLT HEX 1/4X20-7	1/4-20	7"	\$ 0.75

Part Number	Dia	Length	Price
BOLT HEX 1/4X20-8	1/4-20	8"	\$ 1.20
BOLT HEX 5/16-18X1	5/16-18	1"	\$ 0.18
BOLT HEX 5/16-18X1 DH	5/16-18	1" Drilled head	\$ 1.35
BOLT METRIC 8.8 M5 DH			\$ 1.96

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## Nuts

Aircraft Grade Nuts and Others Tool

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	Part Number	Type	Dia	Price
AN310-3	Castle	3/16-32	\$ 0.57	AN365-720A	Nylok	7/16-20	\$ 0.80
AN310-4	Castle	1/4-28	\$ 0.87	AN365-820A	Nylok	1/2-20	\$ 1.00
AN310-5	Castle	5/16-24	\$ 0.97	MS21083-N3	Nylok Thin	3/16-32	\$ 0.13
AN310-6	Castle	3/8-24	\$ 1.05	MS21083-N5	Nylok Thin	5/16-24	\$ 0.32
AN310-7	Castle	7/16-20	\$ 1.55	MS21083-N8	Nylok Thin	1/2-20	\$ 0.95
AN310-8	Castle	1/2-20	\$ 1.83	MS21025-20	Axle Nut, Nose	1.250-16	\$ 13.80
AN315-3R	Jam nut	3/16-32	\$ 0.20	MS21042-06	All Metal Lock	#6-32	\$ 0.30
AN316-4R	Thin jam	1/4-28	\$ 0.24	MS21042-08	All Metal Lock	#8-32	\$ 0.30
AN316-5R	Thin jam	5/16-24	\$ 0.48	MS21042-3	All Metal Lock	3/16-32	\$ 0.30
AN316-6R	Thin jam	3/8-24	\$ 0.40	MS21042-4	All Metal Lock	1/4-28	\$ 0.45
AN320-3	Castle,shear	3/16-32	\$ 0.65	MS21045-3	All Metal Lock	3/16-32	\$ 0.40
AN320-8	Castle,shear	1/2-20	\$ 1.10	MS21045-5	All Metal Lock	5/16-24	\$ 0.40
AN364-428	Nylok	1/4-28	\$ 0.15	NAS 1022N10	Nylok	5/8	\$ 0.85
MS21044N04	Nylok	4-40	\$ 0.32	NAS-487-20	Instrument Nut	6-32	\$ 1.00
AN365-632A	Nylok	#6-32	\$ 0.18	NUT 1/4-20 SELF LOCK	Nylok	1/4-20	\$ 0.15
AN365-832A	Nylok	#8-32	\$ 0.10	NUT HEX 1/4-20	Nut	1/4-20	\$ 0.05
AN365-1032	Nylok	3/16-32	\$ 0.12	NUT TINNEMAN 1/4-20	Tinnerman	1/4	\$ 0.30
AN365-428	Nylok	1/4-28	\$ 0.15		Low Profile, Self Locking	3/8-24	\$ 2.90
AN365-524	Nylok	5/16-24	\$ 0.25	NAS679A6			
AN365-624A	Nylok	3/8-24	\$ 0.30	VA-106	Axle Nut, Main	1 1/4	\$ 16.00

## Nutplates

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

Part Number	Desc	Description	Price
K1000-06	6-32	Anchor Nut, Std size	\$ 0.55
K1000-08	8-32	Anchor Nut, Std size	\$ 0.48
K1000-3	AN3	Anchor Nut, Std size	\$ 0.58
K1000-4	AN4	Anchor Nut, Std size	\$ 0.85
K1000-5	AN5	Anchor Nut, Std size	\$ 2.10
K1000-6	AN6	Anchor Nut, Std size	\$ 2.25
K1100-06	6-32	Anchor Nut, Dimpled, Std size	\$ 0.64
K1100-08	8-32	Anchor Nut, Dimpled, Std size	\$ 0.70
MK1000-428	AN4	Anchor Nut, Miniature	\$ 1.20
MS21051-L08	8-32	Anchor Nut, One Leg, Std size	\$ 0.75
MS21051-L3	AN3	Anchor Nut, One Leg, Std size	\$ 0.80
MS21051-L06	6-32	Anchor Nut, One Leg, Std size	\$ 0.75
MS21053-L08	8-32	Anchor Nut, One Leg, Dimpled, Std size	\$ 0.90
MS21055-L08	8-32	Anchor Nut, Corner Type, Std size	\$ 1.00

## Washers

Washers and More

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

HARDWARE

Part Number	ID	OD	Price
NAS1149FN632P	0.125	0.3125	\$ 0.04
NAS1149FN832P	#8	0.375	\$ 0.04
NAS1149F0363P	AN3	0.438	\$ 0.03
NAS1149F0332P	AN3	0.438	\$ 0.03
NAS1149F0463P	AN4	0.500	\$ 0.05
NAS1149F0432P	AN4	0.500	\$ 0.03
NAS1149F0563P	AN5	0.562	\$ 0.05
NAS1149F0532P	AN5	0.562	\$ 0.08
NAS1149F0663P	AN6	0.625	\$ 0.05
NAS1149F0632P	AN6	0.625	\$ 0.05
NAS1149F0763P	AN7	0.750	\$ 0.10
NAS1149F0863P	AN8	0.875	\$ 0.10
NAS1149F0832P	AN8	0.875	\$ 0.08
AN960-1016	5/8	1.188	\$ 0.13
AN960-1216	3/4	1.312	\$ 0.14
AN960-2016	1.25	2.00	\$ 1.10
AN970-3	AN3	0.875	\$ 0.10
AN970-4	AN4	1.125	\$ 0.10
AN970-5	AN5	1.375	\$ 0.14
AN970-6	AN6	1.625	\$ 0.25
AN970-7	AN7	1.812	\$ 0.30
AN970-8	AN8	2.00	\$ 0.40
MS35333-39	AN3	Internal Lock	\$ 0.04

Part Number	ID	OD	Price
MS35333-40	AN4	Internal Lock 0.8"	\$ 0.04
WASHER 062 25783054	AN6	Hardened	\$ 0.15
WASHER 5610-18-31	#8	Flat Nylon	\$ 0.05
WASHER 5702-475-48 Z3	AN3	0.560	\$ 0.12
WASHER 5702-617-125	AN8	0.755	\$ 2.37
WASHER 5702-75-60	AN3	0.311	\$ 0.11
WASHER 5702-95-30	AN4	0.753	\$ 0.12
WASHER LOCK 5/16	AN5	0.575	\$ 0.07
WASHER LOCK 3/8	AN6	0.675	\$ 0.11
WASHER STD-619	1/2	1.745	\$ 9.50
WASHER THRUST 1/2	AN8	1.000	\$ 1.17
A3236-012-935	#6	flush	\$ 0.35
A3135-017-24A	#8	flush	\$ 0.35
A3235-028-24A	AN3	flush	\$ 0.35
A3475-020-24A	AN4	flush	\$ 0.15
AN935C516	AN5	Lockwasher SS	\$ 0.17
AN936A416	AN4	Internal Lock	\$ 0.04
MS27183-17	AN8	1.25 OD	\$ 0.20
HW LOCKPLATE ALTERNTR		Double Tab	\$ 1.65



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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-struct	6-32	3/8	\$ 0.05
AN507-6R8	C/Sunk,non-struct	6-32	1/2	\$ 0.05
AN507C632R8	C/Sunk,non-struct,SS	6-32	1/2	\$ 0.05
AN507-6R10	C/Sunk,non-struct	6-32	5/8	\$ 0.06
AN507C832R8	C/Sunk,non-struct,SS	8-32	1/2	\$ 0.10
AN509-8R8	C/Sunk, structural	8-32	1/2	\$ 0.07
AN509-8R10	C/Sunk, structural	8-32	5/8	\$ 0.12
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"	\$ 0.18
AN509-10R18	C/Sunk, structural	AN3	1 1/8	\$ 0.19
MS24694-S67	C/Sunk,structural	AN3	1 9/16	\$ 0.28
AN509-416R12	C/Sunk,structural	AN3	3/4	\$ 0.34
AN515-6R8	Pan Head	6-32	1/2	\$ 0.07
AN515-8R8	Pan Head	8-32	1/2	\$ 0.07
AN525-8R8	Washer Head	8-32	1/2	\$ 0.14
AN525-10R7	Washer Head	AN3	7/16	\$ 0.13
AN525-10R10	Washer Head	AN3	5/8	\$ 0.13
AN525-10R12	Washer Head	AN3	3/4	\$ 0.18
AN525-10R18	Washer Head	AN3	1 1/8	\$ 0.30
AN525-416R14	Washer Head	AN4	7/8	\$ 0.65
AN526-632R8	Truss Head	6-32	1/2	\$ 0.06
AN526C632R8	Truss Head,SS	6-32	1/2	\$ 0.08
AN526C832R8	Truss Head,SS	8-32	1/2	\$ 0.09
AN526-8R12	Truss Head	8-32	3/4	\$ 0.08
SCREW 3/8-24X3/4	Socket Head, Cap	3/8-24	3/4	\$ 0.65
SCREW 5/16-20X1 1/2	Socket Head, Cap	5/16-20	1 1/2	\$ 2.00
SCREW 5/16-24X3/4	Socket Head, Cap	5/16-20	3/4	\$ 0.40
MS24693-S274	C/Sunk,non-struct	AN3	3/4	\$ 0.09
MS24693-S50	C/Sunk,non-struct	8-32	1/2	\$ 0.04
MS24693-S95	C/Sunk,non-struct	AN4	5/8	\$ 0.10
MS35214-27	Pan Head Brass	6-32	1/2	\$ 0.14
MS35214-29	Pan Head Brass	6-32	3/4	\$ 0.16
MS35214-31	Pan Head Brass	6-32	1"	\$ 0.18
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	\$ 0.13
MS35206-265	Pan Head	AN3	3/4	\$ 0.11
MS35206-281	Pan Head	AN4	3/4	\$ 0.18

## 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
AN426AD3-3	3/32	64	\$ 46.42
AN426AD3-3.5	3/32	57	\$ 44.78
AN426AD3-4	3/32	50	\$ 42.18
AN426AD3-4.5	3/32	45	\$ 40.93
AN426AD3-5	3/32	41	\$ 39.47
AN426AD3-6	3/32	34	\$ 33.00
AN426AD3-7	3/32	30	\$ 39.00
AN426AD3-8	3/32	26	\$ 36.00
AN426AD4-4	1/8	25	\$ 25.00

Part Number	Dia	Qty/0.01lb	Price/lb
AN426AD4-5	1/8	23	\$ 25.00
AN426AD4-6	1/8	19	\$ 25.00
AN426AD4-7	1/8	17	\$ 25.00
AN426AD4-8	1/8	15	\$ 25.00
AN426AD4-9	1/8	13	\$ 25.00
AN426AD4-11	1/8	11	\$ 25.00
AN426AD4-12	1/8	10	\$ 25.00
AN426AD4-14	1/8	8	\$ 25.00
AN426AD4-22	1/8	5	\$ 25.00

### 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
AN470AD3-4	3/32	39	\$ 39.00
AN470AD3-5	3/32	32	\$ 37.00
AN470AD3-7	3/32	25	\$ 22.00
AN470AD4-4	1/8	18	\$ 21.00
AN470AD4-5	1/8	16	\$ 21.00
AN470AD4-6	1/8	14	\$ 20.00
AN470AD4-7	1/8	13	\$ 20.00
AN470AD4-8	1/8	12	\$ 20.00
AN470AD4-9	1/8	11	\$ 20.00
AN470AD4-10	1/8	10	\$ 20.00
AN470AD4-11	1/8	9	\$ 20.00
AN470AD4-12	1/8	8	\$ 20.00
AN470AD4-14	1/8	7	\$ 20.00
AN470AD4-16	1/8	6	\$ 20.00
AN470AD6-7	3/16	5	\$ 18.00

Part Number	Dia	Qty/0.01lb	Price/lb
AN470AD6-8	3/16	4	\$ 18.00
AN470AD6-9	3/16	4	\$ 18.00
AN470AD6-10	3/16	4	\$ 18.00
AN470AD6-12	3/16	3	\$ 18.00
AN470AD6-14	3/16	3	\$ 19.50
AN470AD6-15	3/16	3	\$ 18.00
AN470AD6-16	3/16	2	\$ 18.00
AN470AD6-18	3/16	2	\$ 18.00
AN470AD6-20	3/16	2	\$ 18.00
AN470AD6-22	3/16	2	\$ 22.50
AN470AD6-24	3/16	2	\$ 26.00
AN470AD6-25	3/16	1	\$ 18.00
AN470AD6-27	3/16	1	\$ 29.00
AN470AD6-28	3/16	1	\$ 22.00

### 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	\$ 34.00
NAS1097AD4-4	1/8	26	\$ 30.00
NAS1097AD4-5	1/8	23	\$ 30.00
NAS1097AD4-6	1/8	20	\$ 27.50

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## Blind Rivets

Part Number	Dia	Grip	Head	Shank	Price
RIVET AACQ-4-3	1/8	3/16	Flush Alum	Alum	\$ 0.35
RIVET AACQ-4-4	1/8	1/4	Flush Alum	Alum	\$ 0.18
RIVET AD-41-ABS	1/8	1/16	Round Alum	Alum	\$ 0.05
RIVET AD-41H	1/8	1/16	Round Closed End	Carbon Steel	\$ 0.10
RIVET AD-42-H	1/8	1/8	Round Closed End	Carbon Steel	\$ 0.06
RIVET AD-43-H	1/8	3/16	Round Closed End	Carbon Steel	\$ 0.08
RIVET AD-45-H	1/8	5/16	Round Closed End	Carbon Steel	\$ 0.12
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	\$ 0.26
RIVET CR3212-4-2	1/8	1/8	Cherry Flush	Steel	\$ 0.80
RIVET CR3212-4-3	1/8	3/16	Cherry Flush	Steel	\$ 0.80
RIVET CR3212-4-4	1/8	1/4	Cherry Flush	Steel	\$ 0.75
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	\$ 0.90
RIVET CR3213-4-4	1/8	1/4	Cherry Round	Steel	\$ 0.90
RIVET CR3213-4-5	1/8	5/16	Cherry Round	Steel	\$ 0.90
RIVET CR3213-5-6	5/32	3/8	Cherry Round	Steel	\$ 1.00
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 LP4-4	1/8	1/4	Round Alum	Carbon Steel	\$ 0.05
RIVET MK-319-BS	7/64	1/8	Flush Monel	Carbon Steel	\$ 0.22
RIVET MSP-42	1/8	1/8	Round Monel	Carbon Steel	\$ 0.17
RIVET SD-42-BSLF	1/8	1/8	Large Steel	Carbon Steel	\$ 0.08
N RIVET BSPQ-5-4	5/32	1/4	Round Alum	Carbon Steel	\$ 0.33

## 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 \$7.50 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
AS3-016 VV CUT	0.016"	\$ 4.70
AS3-020 VV CUT	0.020"	\$ 5.55
AS3-025 VV CUT	0.025"	\$ 6.05
AS3-032 VV CUT	0.032"	\$ 7.53

Part Number	Dia	Price
AS3-040 VV CUT	0.040"	\$ 8.30
AS3-063 VV CUT	0.063"	\$ 12.25
AS3-125 VV CUT	0.125"	\$ 23.60

## 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'	\$ 7.90
AA6-125X1 1/2X2X10	0.125	1.5x2	10"	\$ 5.40
AA6-125X1 1/2X2X18	0.125	1.5x2	18"	\$ 7.10
AA6-125X1 1/2X2X30	0.125	1.5x2	30"	\$ 10.70
AA6-125X1X1X20	0.125	1x1	20"	\$ 5.25
AA6-125X1X1X6'	0.125	1x1	6'	\$ 13.55
AA6-125X3/4X3/4X17	0.125	3/4x3/4	17"	\$ 4.05
AA6-125X3/4X3/4X24	0.125	3/4x3/4	24"	\$ 4.95
AA6-125X3/4X3/4X6'	0.125	3/4x3/4	6'	\$ 11.00
AA6-187X2X2 1/2X12	0.187	2x2.5	12"	\$ 9.20
AA6-187X2X2 1/2X18	0.187	2x2.5	18"	\$ 16.00
AA6-187X2X2 1/2X3'	0.187	2x2.5	3'	\$ 22.90

## 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"	\$ 8.50
AN257-P2X6'	1 1/16	6'	\$ 18.00
AN257-P3X24	1 1/4	24"	\$ 6.50
AN257-P3X3'	1 1/4	3'	\$ 8.00
AN257-P3X6'	1 1/4	6'	\$ 12.00
AN257-P4X24	1 1/2	24"	\$ 15.00
AN257-P4X6'	1 1/2	6'	\$ 24.50
AN257-P5X24	2"	24"	\$ 15.50
AN257-P5X6'	2"	6'	\$ 27.00
MS20001-4X6	1 1/2	6"	\$ 9.00

Part Number	Width	Length	Price
HINGE PIANO 063X3'	1 1/4	3'	\$ 7.15
HINGE PIANO 063X6'	1 1/4	6'	\$ 9.00
HINGE PIANO 1/8X36	1 1/2	36"	\$ 7.95
HINGE PIANO 1/8X6'	1 1/2	6'	\$ 15.90
SSP-063X3'	0.063	3'	\$ 3.25
SSP-063X6'	0.063	6'	\$ 5.25
SSP-090X3'	0.090	3'	\$ 3.50
SSP-090X6'	0.090	6'	\$ 5.00
SSP-120X3'	0.120	3'	\$ 4.75
SSP-120X6'	0.120	6'	\$ 7.00

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## 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. Special mandrels or tools are not required.

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.

Hose tool (on page 112) greatly simplifies assembly of steel braided hoses. Fits -4 (1/4"), -6 (3/8") and -8 (1/2") sizes.

Part Number	Description	Size	Price
F 816-4	Straight Fitting	1/4	\$ 28.00
F 816-6D	Straight Fitting	3/8	\$ 26.00
F 816-8D	Straight Fitting	1/2	\$ 30.00
F 8891-4	Right Angle Fitting	1/4	\$ 43.00
F 8891-6D	Right Angle Fitting	3/8	\$ 58.00

Part #	Description	Size	Price
F 8891-8D	Right Angle Fitting	1/2	\$ 68.00
F AE102-11	Firesleeve	For 3/8 & 1/2	\$ 9.80
F AE701-4	Hose	1/4	\$ 11.50
F AE701-6	Hose	3/8	\$ 13.00
F AE701-8	Hose	1/2	\$ 16.00

### Fluid Fittings

AN8XX Fittings

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

Part #	Description	Desc	Price
AN816-2	Nipple,tube/pipe	1/8	\$ 9.00
AN816-2D	Nipple,tube/pipe	1/8	\$ 3.65
AN816-4D	Nipple,tube/pipe	1/4	\$ 2.20
AN816-6D	Nipple,tube/pipe	3/8	\$ 2.27
AN816-8D	Nipple,tube/pipe	1/2	\$ 5.85
AN818-2D	Coupling nut	1/8	\$ 0.64
AN818-4D	Coupling nut	1/4	\$ 0.84
AN818-6D	Coupling nut	3/8	\$ 0.84
AN819-2D	Coupling sleeve	1/8	\$ 0.55
AN819-4D	Coupling sleeve	1/4	\$ 0.65
AN819-6D	Coupling sleeve	3/8	\$ 0.64
AN822-4D	Elbow,tube/pipe	1/4	\$ 6.36
AN822-6	Elbow,tube/pipe	3/8	\$ 8.36
AN822-6D	Elbow,tube/pipe	3/8	\$ 7.45
AN822-8D	Elbow,tube/pipe	1/2	\$ 9.45
AN823-4	45 deg elbow,tube/pipe	1/4	\$ 12.50
AN823-4D	45 deg elbow,tube/pipe	1/4	\$ 6.00
AN823-6D	45 deg elbow,tube/pipe	3/8	\$ 7.18
AN823-8D	45 deg elbow,tube/pipe	1/2	\$ 8.30
AN824-2D	Tee, tube/tube/tube	1/8	\$ 11.64
AN824-4D	Tee, tube/tube/tube	1/4	\$ 10.45
AN826-6D	Tee, pipe/tube/tube	3/8	\$ 10.36

Part #	Description	Desc	Price
AN832-2D	Union bulkhead,tube/tube	1/8	\$ 7.27
AN832-4D	Union bulkhead,tube/tube	1/4	\$ 3.73
AN833-2D	Elbow bulkhead,tube/tube	1/8	\$ 8.18
AN833-4D	Elbow bulkhead,tube/tube	1/4	\$ 7.45
AN833-6D	Elbow bulkhead,tube/tube	3/8	\$ 8.00
AN837-4D	45 deg elbow bulkhead, tube/tube	1/4	\$ 6.73
AN919-1D	Tube Reducer	1/4 to 1/8	\$ 4.50
AN924-2D	Bulkhead nut	1/8	\$ 0.55
AN924-4D	Bulkhead nut	1/4	\$ 0.70
AN924-6D	Bulkhead nut	3/8	\$ 0.75
AN929-6D	Female cap	3/8 tube	\$ 1.75
AN SPACER, 4D	Washer	1/4 fitting	\$ 0.55
AN SPACER, 6D	Washer	3/8 fitting	\$ 0.55

### Aluminum Tube & Copper Too

3003 Soft Aluminum Tube and 6061-T6 Rigid Tube

Soft tube for brake lines and fuel lines. Rigid tube for spacers & pushrods. Copper for primer lines.

Part Number	Desc	Dia	Length	Price
AT0-032X1/4X12'	Soft AL	1/4	12'	\$ 19.00
AT0-032X1/4X14'				
COIL	Soft AL	1/4	14'	\$ 22.00
AT0-032X1/4X16'				
COIL	Soft AL	1/4	16'	\$ 25.00
AT0-032X1/4X19'	Soft AL	1/4	19'	\$ 30.00
AT0-032X1/4X8'	Soft AL	1/4	8'	\$ 16.80
AT0-035X3/8X18	Soft AL	3/8	18"	\$ 4.80
AT0-035X3/8X24	Soft AL	3/8	24"	\$ 5.85
AT0-035X3/8X6'	Soft AL	3/8	6'	\$ 14.10
AT0-035X3/8X8'	Soft AL	3/8	8'	\$ 18.20
AT6-058X3/8X4	Rigid AL	3/8	4"	\$ 3.70

Part Number	Desc	Dia	Length	Price
AT6-065X3/8X36	Rigid AL	3/8	36"	\$ 17.80
AT6-065X3/8X6'	Rigid AL	3/8	6'	\$ 33.50
AT6-058X5/16X4	Rigid AL	5/16	4"	\$ 4.00
AT6-058X5/16X9	Rigid AL	5/16	9"	\$ 4.50
AT6-058X5/16X18	Rigid AL	5/16	18"	\$ 7.00
AT6-058X3/4X4'	Rigid AL	3/4	4'	\$ 24.00
AT6-058X3/4X6'	Rigid AL	3/4	6'	\$ 34.00
AT6-035X1 1/8X6'	Rigid AL	1 1/8	6'	\$ 30.00
AT6-035X1 1/2X83	Rigid AL	1 1/2	83"	\$ 43.20
	Soft		As	
CT0-125OD	Copper	1/8	Ordered	\$ 1.75

### Misc Fittings and Plastic Tube

Metal, Plastic and Rubber Hose Fittings

Part Number	Description	Description	Price
F 1/4 PIPE PLUG	Steel Plug	1/4	\$ 0.50
F 1/8 PIPE PLUG	Steel Plug	1/8	\$ 0.40
F 1/8 PIPE PLUG			
BRASS	Brass Plug	1/8	\$ 0.88
F 63-PT3-25	Brass Insert		\$ 0.66
F 69-F-04X02	Brass Elbow	1/4tube- 1/8pipe	\$ 3.20
FF-60C	Brass Ferrule	1/8	\$ 0.28
F FERRULE 1/4"	Brass Ferrule	1/4	\$ 0.30
FLF-00007	Push-in Elbow	1/4tube- 1/8pipe	\$ 5.00
FLF-00004	Push-in Tee	1/4tube- 1/4tube- 1/8pipe	\$ 6.00

Part Number	Description	Description	Price
F PLASTIC TEE	Plastic Tee	Pitot static	\$ 0.80
PT 1/2ODX2 CLEAR	Plastic Tube	1/2x2"	\$ 1.40
PT 1/4OD TUBEX10'	Plastic Tube	1/4x10'	\$ 4.40
PT 1/8 CLR X 5'	Plastic Tube	1/8 IDx5'	\$ 3.00
PT-035X1/4X4'	Plastic Tube	1/4 ODx4'	\$ 4.30
PT-035X1/4X9'	Plastic Tube	1/4 ODx9'	\$ 9.00
	Hi-Pressure Tube	1/4 ODx9'	\$ 9.60
PT-062X1/4X15'	Hi-Pressure Tube	1/4 ODx15'	\$ 16.00

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Van's Aircraft  
Ordering Options

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
BUSHING SB187-2	3/16	1/8	\$ 0.12
BUSHING SB375-3	3/8	3/16	\$ 0.12
BUSHING SB375-4	3/8	1/4	\$ 0.08
BUSHING SB437-4	7/16	1/4	\$ 0.08
BUSHING SB500-6	1/2	3/8	\$ 0.08

Part Number	Hole Dia	ID	Price
BUSHING SB625-7	5/8	7/16	\$ 0.08
BUSHING SB625-8	5/8	1/2	\$ 0.12
BUSHING SB750-10	3/4	5/8	\$ 0.16
AN931-4-12	3/4	1/4	\$ 0.55
AN931-6-16	1"	3/8	\$ 0.67

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
MS21919DG2	1/8	AN3	\$ 0.55
MS21919WDG3	3/16	AN3	\$ 0.53
MS21919DG4	1/4	AN3	\$ 0.45
MS21919DG5	5/16	AN3	\$ 0.50
MS21919WDG6	3/8	AN3	\$ 0.58
MS21919DG7	7/16	AN3	\$ 0.60
MS21919DG8	1/2	AN3	\$ 0.60
MS21919DG9	9/16	AN3	\$ 0.70

Part Number	Hole Dia	ID	Price
MS21919DG10	5/8	AN3	\$ 0.55
MS21919DG11	11/16	AN3	\$ 0.75
MS21919DG12	3/4	AN3	\$ 0.80
MS21919DG13	13/16	AN3	\$ 0.90
MS21919DG14	7/8	AN3	\$ 0.90
MS21919DG15	15/16	AN3	\$ 0.85
MS21919DG16	1"	AN3	\$ 0.90

Cotter Pins

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

Part Number	Desc	Desc	Price
MS24665-132	AN3	1/16x1/2	\$ 0.03
MS24665-151	AN3	1/16x1/2 SS	\$ 0.03
MS24665-153	AN3	1/16x3/4 SS	\$ 0.04
MS24665-155	AN3	1/16x1" SS	\$ 0.05
MS24665-208	AN4,5	5/64x1/2	\$ 0.04
MS24665-283	AN6	3/32x3/4	\$ 0.06
MS24665-300	AN6	3/32x3/4 SS	\$ 0.06

Part Number	Desc	Desc	Price
MS24665-302	AN6,7,8	3/32x7/8 SS	\$ 0.08
MS24665-304	AN6,7,8	3/32x1 1/8 SS	\$ 0.10
MS24665-351		1/8x3/4	\$ 0.04
MS24665-359	NOSE	1/8x1 3/4	\$ 0.08
MS24665-360	MAIN	1/8x2"	\$ 0.17
MS24665-370		11/64x1" SS	\$ 0.17
MS24665-444		11/64x2" SS	\$ 0.33

Misc

Part Number	Description	Length	Price
HW 212-12	Camloc Receptacle		\$ 5.00
HW 2600-3W	Camloc 1/4 Turn Fastner		\$ 8.00
HW 2600-LW	Camloc Washer		\$ 0.25
U-00015	Brake Caliper 1.228" 'O' Ring		\$ 1.60
MS35769-11	VA147 Gasket 5/8"		\$ 0.80
PLASTIC TIE WRAP 4"	Plastic Tie Wrap	4"	\$ 0.04
"P" STRIP X 50	Self adh rubber strip	50"	\$ 6.90
RUBBER CHANNEL X 12'	Wing Root Channel	12'	\$ 10.65

Part Number	Description	Length	Price
RUBBER CHANNEL X 4'	Hor Stab Channel	4'	\$ 6.40
RUBBER CHNL S88D20X60	Canopy Seal	5'	\$ 11.50
VA-103-1	Blue Knob		\$ 4.50
VA-104-1	Yellow Knob		\$ 5.00
VA-104-2	Black Knob		\$ 5.00
VA-104-3	Red Knob		\$ 5.00
VA-105C	Spring Clip		\$ 2.65
VA-106	Axle Nut		\$ 16.00

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