

Appendix C

Resources - Compiled by Terry Yake

For Homebuilders/Owners/Pilots

Linked Resource List as of September, 2003

E-mail addresses change often. Companies do go out of business. This list is a great start.

This is not an exhaustive list, but contains sources of parts and information that will be helpful to the homebuilt aircraft owner, builder, and pilot. To browse, just click on the desired topic area below.

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AIRSHOW CALENDARS

1. ANTIQUE AIRCRAFT - CASA GRANDE, AZ <http://www.cactusflyin.org/>
2. COPPER STATE EAA FLY-IN (OCTOBER) <http://www.copperstate.org>
3. EAA AIRVENTURE OSHKOSH (AUGUST) <http://www.airventure.org>
4. EAA EAST COAST FLY-IN <http://www.eastcoastflyin.org>
5. EAA GOLDEN WEST REGIONAL FLY-IN <http://www.gwfly-in.org>
6. EAA MID-EASTERN FLY-IN
FAX: 419-447-1773
7. EAA NORTHWEST FLY-IN (JULY) <http://www.nweaa.org>
8. EAA ROCKY MOUNTAIN REGIONAL <http://www.greeleynet.com/eaaregional>
9. EAA SOUTHEAST REGIONAL FLY-IN <http://www.geocities.com/~serfi>
10. EAA SOUTHWEST REGIONAL FLY-IN <http://www.swrfi.com>
11. FARNBOROUGH ON LINE <http://www.phillips.com/farnborough>
12. INTERNATIONAL COUNCIL OF AIR SHOWS <http://www.icas.org>
13. RENO AIR RACES <http://www.airrace.org>
14. ROUGH RIVER FLY-IN (SEPTEMBER) <http://www.roughriver.org>
15. SUN-N-FUN (APRIL) <http://tsolv.com/sunfun/nshome.html>
16. VIRGINIA STATE EAA FLY-IN <http://www.vaeaa.org>

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ALUMINUM PARTS

Ken Brock Manufacturing, 11852 Western Ave. Stanton, CA 90680 (714-898-4366) Maker of the pre-fabricated metal hardware for most plans-built canards; email at www.kenbrockmfg.com

AVIATION RELATED POINTS OF INTEREST AND WEB SITES

1. AMERICAN AVIATION ART <http://www.amavart.com>
2. AVIATION MUSEUMS http://macwww.db.erau/www_virtual_lib/aviation/museums
3. AVWEB <http://www.avweb.com> (GREAT ARTICLES BY JOHN DEAKIN)
4. AOPA <http://www.aopa.org>
5. EAA HOMEPAGE: <http://www.eaa.org>
6. FAA <http://www.faa.gov>
7. AVIATION HOME PAGE <http://www.avhome.com>
8. ARPLANES ON LNE <http://www.airplane.com>
9. FAA FAR'S http://www.faa.gov/avr/afs/fars/far_idx.html
10. NATIONAL AIR AND SPACE <http://www.nasm.edu/>
11. SMITHSONIAN INST. <http://www.si.edu/>
12. AIR AND SPACE MAG: http://airspacemag.earthlink.net/ea/oshkosh_home.html
13. EAA CROSS-COUNTRY RACE: <http://www.airventure.org>
14. CAFÉ FUEL EFFICIENCY WEBSITE: <http://www.cafefoundation.org/>
15. Try <http://www.AirNav.com> for gas prices around the U.S.
16. FAA N number registration information: <http://162.58.35.241/acdatabase/> or http://www.landings.com/evird.acqi?pass*51141619!mtd*40!ref*www.landings.com/landings/Pages/!pg*s_earch.html#reg-us or <http://www.avhome.com/faq/nnumber.php>
17. Aircraft and Airmen Registration: <http://registry.faa.gov/>
18. AWOS anywhere contact site: www.anyAWOS.com (call one number to listen to any AWOS)

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AVIATION PUBLICATIONS

DOCUMENTS FOR RUTAN AIRCRAFT (POH) <http://www.rutanaircraft.com/htmlpages/orderform.html>

Subject: U.S. Government Aviation Publications (Some you should own)

So, you wanted to know the min/max torque on an AN327XR35-5 bolt, how to splice a broken longeron, repair a wood propeller, safety-wire a turn-buckle, splice a number 18-gauge electrical wire, replace rusted fuselage tubing, decode the hieroglyphics on a bolt head, etc. This is the type of information you can find in government documents, and much more.

A few recommendations for every builder and most owners:

1. Acceptable Methods, Techniques, and Practices

Aviation circular: 43.13-1B, Aircraft Inspection and Repair, September 8, 1998
Stock number: 050-007-01227-6 (\$67.00) 656 pages

Also try these sources. (They may have a better price.):

* Aircraft Spruce catalog

* ASA Publications: Aviation Supplies & Academics, 7005 132nd Place SE, Newcastle, WA 98059

* The FAA's advisory circular on , "Acceptable Methods, Techniques, and Practices...,etc., AC 43.13-1B, can be downloaded from: <http://av-info.faa.gov/dst/43-13/>

Aviation Circular: 43.13-2A, Aircraft Alterations, Consolidated Reprint, 1977
Stock number: 050-007000625-0 (\$11.00) 110 pages

No longer in print, but copies may still exist

2. Amateur-Built Aircraft and Ultralight Flight Testing Handbook, 1995
Stock number: 050-007-01087-7 (\$8.50) 96 pages
3. Amateur Built Aircraft Reference Material, 1999
Stock number: 050-007-01246-2 (\$28.00)

Payment for orders must be in U.S. dollars (VISA, Mastercard, and Discover cards accepted). There is a 25% surcharge for international orders. Four weeks for delivery, ten weeks for international.

The U.S. Government Printing Office has bookstores in the following cities:

Atlanta	Denver	New York
Birmingham, AL	Detroit	Philadelphia
Boston	Houston	Pittsburgh
Chicago	Jacksonville, FL	Portland, OR
Cleveland	Kansas City, MO	Pueblo, CO
Columbus, OH	Laurel, MD	San Francisco
Dallas	Los Angeles	Seattle
Milwaukee	Washington, D.C.	

WWW.ACCESS.GPO.GOV/SU_DOCS (go to the "online bookstore")

Publication order desk: 1-866-512-1800 (toll free)

Also, try ASA Publications for these same reference books.

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AVIONICS AND NAVIGATION

1. TERRA RADIO "FACTORY" REPAIR: FREE FLIGHT SYSTEMS; 3700 Interstate 35; Waco, TX 76706. 254-662-0000. www.freeflightsystems.com Freeflight systems, who bought out the Terra line from Trimble have the users and installation manuals on line on an FTP site for a lot of the Terra line. Go to:<http://www.freeflightsystems.com/serv.htm> and look for the FTP sever link under "Download Freeflight publications". It takes searching in the site, but there is a folder with the Terra info in it. Terra radio installation guides:
<ftp://stcpub2:austin@207.70.181.247/Publications/TerraByTrimble/>
2. GPS SATELLITE CONSTELLATION INFO: <http://tycho.usno.navy.mil/gps.html>
3. Navaid Devices, Inc., Single axis auto-pilot/turn coordinator, (423-267-331)
4. **EZ PILOT AUTOPILOT:** <http://www.trioavionics.com>, connects to the NavAid servo (download manual)
5. **JEPPESEN NAVIGATION CHARTS** <http://www.jepesen.com>
6. **ANTENNAS FOR COMPOSITE PLANES**, Bill Butters, Advanced A/C Electronics PO Box 4111, Florissant, MO 63032 800-758-8632
7. Chief Aircraft, Grants Pass, OR: <http://www.chiefaircraft.com>, 800-447-3408
8. Radio Systems Technology, 13281 Grass Valley Ave, Grass Valley, OR 95945 916-272-2203
9. Sigtronics, intercoms, 818-967-0977
10. UMA Instruments (United Medical and Aircraft Instruments), 260 Main St., Dayton, VA 22821 (540-879-2040)
11. Century Instrument Corporation, 4440 Southeast Blvd., Wichita, KS 67210 (800-733-0116)
12. Becker Avionics: <http://www.becker-avionics.com/product/rn33xx.htm>

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CANARD WEB SITES

1. SCALED COMPOSITES, INC: go4scaled@aol.com <http://www.portal.com/~scaled>
2. RUTAN AIRCRAFT FACTORY: RAF@HUGHES.NET
3. CANARD STUFF: WEB-SPAN.COM/CANARD.COM <http://www.canard.com>
4. COZY BUILDERS GROUP: MAILTO:COZY_BUILDERS@HPWARHW.AN.HP.COM
5. BRITISH CANARD GROUP: <http://www.hiway.co.uk/aviation/aviation.html>
6. EAST COAST CANARD GROUP: <http://www.canard.com/>
7. Long-EZ plans changes: www.noaa.inel.gov/capabilities/longez/LongEZPlansChanges.htm
8. NTSB listings of accidents <http://www.canard.com/ntsb/long-ez.html>
9. The index of past Central States Newsletter articles <http://www.canard.com/csa/>
10. Defiant Club, John Steichen (Illinois) 708-985-6671
11. Central States Association: Terry Schubert 9283 Lindbergh Blvd. Olmsted Falls, OH 44138, mailto:Jschuber@juno.com
12. Southern California EZ Squadron: <http://www.ez.org> - Articles, For Sale Stuff, News, Safety and a directory/pictorial presentation of canards of members.
13. http://members.shaw.ca/ronstew/canard_models.html
14. EZ repair facility by Rob and Valerie Harris. VHarris509@aol.com
15. Canard operations and maintenance, extensive subject matter developed by Long-EZ/Velocity builder Tim Crawford: <http://www.noaa.inel.gov/capabilities/LongEZ/Safety.asp>
16. CSA Newsletter index to articles: <http://acs-group.net/ez/>

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ELECTRICAL/VACUUM

1. ***The AeroElectric Connection:*** A great reference tool by Bob Nuckolls who draws from his engineering experiences in the aviation industry. It contains the theory, operation, design, and fabrication techniques for almost every aircraft electrical issue you will ever encounter, especially eze problems. Battery analysis, testing, and advice included. (316-685-8617) www.aeroelectric.com
2. Electrical connectors of all sorts: <http://www.radarinc.com/manufacturers.html>
3. Digi-Key catalog, Thief River Falls, MN, <http://www.digikey.com>, 800-344-4539 (switches, relays, circuit components)
This is a web site that may be helpful in diagnosing and repairing alternator electrical noise problems. <http://avionicswest.com/snap.html#Alternator%20Noise>
4. Vacuum alert pressure indicator switch: Whitman Controls (probable part number – P100V-1-K-1-2-TS-0.2)
5. A new dual-rotor vacuum pump that is a nearly direct replacement for the standard version is being developed by Aero Advantage of Granbury, TX. The purpose is to provide two independent vacuum sources for increased safety. It first appeared at Sun 'N Fun 2002 and is to be in production for experimental aircraft in July, 2002. (817)-326-6147, <http://www.aeroadvantage.com>
6. Ice Detection System: Lamar Technologies Corp. Marysville, WA Phone: 360-651-6666 <http://www.lamartech.com/iceman>
7. Control stick switches: Coolie Hat switches: <http://www.menzimeraircraft.com> or <http://www.infinityaerospace.com> and <http://www.apem.com/home.html> for the # 8632 Push-Buttons if you need them.
8. Cabin Heat in-line 3 inch diameter blowers: Try looking at this site: http://www.iboats.com/products/7/2486_attwood_turbo_blowers.html

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ENGINE & ENGINE COMPARTMENT / Instrumentation

1. U.S. Government Printing Office: Power Plant Handbook, 1976 stock number: 050-007-00373-1 (\$29.00)

The U.S. Government Printing Office has bookstores in the following cities:

Atlanta	Denver	New York
Birmingham, AL	Detroit	Philadelphia
Boston	Houston	Pittsburgh
Chicago	Jacksonville, FL	Portland, OR
Cleveland	Kansas City, MO	Pueblo, CO
Columbus, OH	Laurel, MD	San Francisco
Dallas	Los Angeles	Seattle
Milwaukee	Washington, D.C.	

WWW.ACCESS.GPO.GOV/SU_DOCS (go to the "online bookstore")

Publication order desk: 1-866-512-1800 (toll free)

Also try the EAA. They have a Power Plant Handbook (\$29.00 in 2001).

2. AMERICA'S AIRCRAFT ENGINES <http://www.overhaul.com>
3. B&C SPECIALTY <http://www.bcspec@southwind.net>
(BILL BAINBRIDGE: ALTERNATORS, STARTERS, REGULATORS, OIL FILTER ADAPTERS, BATTERIES, AND WIRING/CONNECTORS FOR THESE COMPONENTS)
4. ENGINE INFO <http://www.gtravis.ucs.indiana.edu/engines/index.html>
5. LIGHTSPEED ENGINEERING, LSE@WEST.NET
(KLAUS SAVIER), ELECTRONIC IGNITIONS, WHEEL PANTS
6. ELECTRONIC IGNITIONS, ELECTROAIR: [HTTP://WWW.ELECTROAIR@JUNO.COM](http://WWW.ELECTROAIR@JUNO.COM),
JEFF ROSE 423 622-8825
7. PENN YAN AERO [HTTP://WWW.AIRTOURIST.COM/PENNYAN](http://WWW.AIRTOURIST.COM/PENNYAN)
8. MATTITUCK AVIATION CORP. <http://www.mattituck.com>
9. SAE AEROSPACE <http://www.sae.org>
10. SUPERIOR AIR PARTS, INC <http://www.superair.com> (NEW CYLINDERS, ± \$1,000)
11. T.W. SMITH AIRCRAFT ENGINES <http://wwwweb.com/www/twsmith>
12. TBO ADVISOR NEWSLETTER <http://www.users.aol.com/tbohome>
13. TEXTRON LYC SELECTED SERVICE DATA <http://www.gtravis.ucs.indiana.edu/aviation/manuf.html>
14. LYCOMING ENGINE BULLETINS <http://www.prime-mover.org/Aviation/Manuf.html>
15. HAL HUNT hal9@bigfoot.com 4-pipe exhausts, carb airboxes (818-989-5534)
16. COOLERS www.oilcoolers.com Positech Intl Inc, 170 N 17th St.
Wheeling, WV. 26003-7073
Aero-Classics at Pacific Oil Cooler's web page:
Wicks Aircraft
Aircraft Spruce and Specialty
([SEE PARTS CATALOG SECTION](#))
Stewart-Warner
Niagra
17. FIREWALL PROTECTIVE COATING Fire Research Labs. <http://www.firelab.com/>
Try Hy-grade coatings at 1-800-783-2449.
18. **CHECK LISTS, O-320** AD'S, ETC COMPILED BY A LONG-EZ BUILDER (2001):
<http://www.noaa.inel.gov/Capabilities/longEZ/Safety.asp>
CHECK LIST, O-235 www.ez.org for O-235 equipped Long-EZ (download Terry Yake's "Guide for Non-Builder...." version 2004)

19. USAF MUSEUM ENGINE GALLERY <http://www.am.wpafb.af.mil/museum/engines/engine.html>
20. ELLISON THROTTLE BODY INJEC. www.ellison-tbi.com Hector, Marty or Ben Ellison
206-271-3220, Weld Tech Aero, 1925 Terminal Dr. Richland,
WA 99352 (NO LONGER IN BUSINESS)
21. INSTRUMENTATION FOR contact information look in the aviation magazines):
- Electronics International
 - JP Instruments
 - Toronto Avionics
 - Vision Micro Systems
 - Et al
22. Cleaner Filters: K&N Filters <http://www.knfilters.com>
23. Replace exhaust manifold springs: Yamaha motor cycle exhaust springs, part #90507-20002,
as used on the Sport Flight exhaust and possibly others.
24. Engine Starters: 800-476-7896 <http://www.skytecair.com>
25. Fuel Injection www.airflowperformance.com Airflow Performance, Inc.
864-576-4512,
<http://www.eci2fly.com> Engine Parts, Engine Components,
Inc., 800-324-2359,
26. Oil pressure switches
- SPDT, 4 psi trigger, 1/8 pipe thread, used for Hobbs and
low pressure indicator, DATCON #100450.
See [Chief Aircraft catalog](#).
 - Belknap #701-1591, NC-Common-NO terminals that work
at 4 psi., cost \$45.00. Other switches with different pressure
settings, and terminal covering caps are available.
Check the catalog at your Napa Auto Parts dealer.
27. Vacuum Pump- Dual in-line pump to improve reliability. To be available in July, 2002.
<http://www.Aero Advantage.com>
28. Skyranch <http://www.sacskyranch.com/index.htm> engine related
maintenance articles (Good book available)
29. Engine Rebuilding www.bpaengines.com Barrett Performance Aircraft, Inc.
2870-B North Sheridan, Tulsa, OK 74115 (Monty Barrett)
918.835.1089
30. Engine Mounts You can get the Engine Mount for the O-235 from Ken Brock Inc.
If you need the mount for an O-320, Hal Hunt can weld on the
extra support tubes to the Ken Brock O-235 mount.
Hal Hunt <http://home.pacbell.net/hal9/>
Van Nuys, CA 818-989-5534
31. Oil dip stick and O-ring seals: <http://www.realgaskets.com/files/horizontal.htm> RG-533355
OIL FILLER CAP GASKET \$2.50. Check for your type engine.
32. Lycoming Engine Brochure <http://www3.telus.net/public/tlc2/projectpage> Weights/Specs
& pictures of various models

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FLIGHT CONTROLS

- Replacement of the Phenolic aileron control bearings with needle bearings: Torrington.
Also, Berkut Engineering has the wing root swivel bearings, bearing holder and C-clips
for this purpose. Give Vicki a call/email and they may be able to fix you up:
www.berkutengineering.com
- Pitch trim springs: Follow the designer's recommendations. Or, Ken Miller makes a
fiberglass bow spring that is connected to the elevator torque tube.
- Electric Trim Systems: "MAC Servos" and stick grips, 760-599-4720,
<http://www.rayallencompany.com>

4. EZ-Pilot autopilot - Trio Avionics, www.trioavionics.com Download free manual for features and unique uses
5. Navaid "Autopilot", 641 N. Market St., Chattanooga, TN 37405, 423-267-3311
6. Digitrak Autopilot: TruTrak Flight Systems, Inc., <http://www.trutrakflightsystems.com>
7. The aileron hinge pin replacement kit is available at <http://www.uslan.com/hinge-kit.html>
8. Teflon covered hinge pin material: Gary Hall at <http://www.uslan.com/hinge-kit.html>
9. Aileron pushrod inserts: These CS-51 inserts that work with the Long-EZ CP 103 changes are made of stainless so the rod end threads won't rust in place. They are longer to accommodate the longer shank of the HM-4's. -Contact Rick Girard at, fly.ez@verizon.net

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FUSELAGE

1. FUSELAGE TRIM: TRIM GRAPHICS, <http://www.autotrimexpress.com>
2. "How to" videos by Eric Cobb COLCOB@SYV.COM
 "Broken Nose" Repair" and "EZ Condition Inspection" Also, see "Guide for Non-Builders...." By Terry Yake (2004) at www.ez.org for four page Inspection Check List for O-235
 "How to" videos by the EAA: Fiberglassing lay-ups: Bill Freeman
3. Linear Actuators: www.uslinear.com or http://www.thomsonindustries.com/sections/overviews/Acquisition_FAQ.htm That is the Global Linear or the predecessor Warner Electric's web page. They can point you to a distributor of actuators. Warner Electric, 1300 N. State St., Marengo, IL 60152 815-568-8001 Models: Electrak 1, Linear actuator S12-17A8-04, 12VDC (4" travel) or S12-17A8-06 12 VDC (6" travel), 75lb load rating, 9307-448-002 Also try:
http://www.globallinear.com/sections/products/Products_main.asp?PC=8900103&L
- 3.a. Electric Landing Brake System: Wayne Lanza, 9425 Honeysuckle Dr., Sebastian, FL 32967 (407-664-8953 office). He has a website at <http://www.compositedesigninc.com>
4. Featherlite composite structures: fhrlite@pacific.net or phone them at (707) 462-2939
5. Canopies: [Todd's Canopies](http://www.todds.com), Todd Silver (<http://www.kgarden.com/todd>), or Airplane Plastics Co. 8300 Dayton Rd., Fairborn, OH 45324, 513-864-5607, or Airplane Plastics 9785 Julie Court, Tipp City, OH 45371 (937) 669-2677
6. AEROGRAPHICS: N-numbers for A/C, 80336-9633
7. NACA AIR INLET DOORS, Gene Zabler 414-886-5315
8. UPHOLSTERY, Alexander Aeroplane Co., 909 Griffin, GA 30224, 800-831-2949
 - a. Canopy Covers: Bruce/Debbie Elkind, 13414 S. Praire, Hawthorne, CA 90250 310-644-9090
 - b. Tony Brazier - covers part of the nose, the canopy, and the prop of Long-EZ and sells for just over \$100.) Custom Cabin Covers, P.O. Box 77031, Ocala, FL 34477, 352-237-1811
 - c. Canopy covers/Aircraft covers: <http://www.covergirlaircraftcovers.com/>
9. Nuts and Bolts, hardware: see the listed catalog companies
11. Transparent Fuel Sight Gauges: Vance Atkinson, <mailto:nostromo56@home.com>
12. Wheel Pants: a. Lightspeed engineering, lse@west.net (Klaus Savier)
13. b. Also ask Central States Assoc. members for loan of molds to make your own
14. Vortex Generators: See Parts Catalog section, Aircraft Spruce or <http://www.mywebco.com>
15. Epoxies: Aeropoxy, 800-421-1518,
16. Space-Saver Circuit Breaker Panel, Try Hal Hunt, (818-989-5534), hal9@bigfoot.com.
17. Hexcell Honeycomb material: Try Wrightwood Racing in Ventura, CA. They will charge a bit more, but will do half sheets. Anything you do with honeycomb must be vacuum bagged for proper adhesion.
18. For dry carbon cloth: <http://www.kemstar.com/index.html>. Also try <http://www.composites1.com/> and Graphite Master 3815 Medford St. Los Angeles, CA 90063-1940 Phone: (323)268-6701.
19. Nose lift suppliers: Jack Wilhelmson's web site: "www.EZnoselift.com". Steve Wright's email: SWrightFLY@aol.com. Bill Oertel - See "Guide for Non-Builder...."

20. Gas Springs: Look here and then try buying it from the local NAPA, **RV**, or auto parts stores. <http://www.spdhardware.com/gs2.htm>
21. Deborah Iwatate is still around (as of October, 2003) and still has the EZ alteration/parts booklets available. For anyone interested in purchasing a copy for \$20 (including US S&H), here's Deb's info:
Deborah Iwatate
1699 April Loop
Richland, WA
99352
Debiko@3-cities.com
22. Fuel Sight Gauges by Vance Atkinson: <http://home.comcast.net/~nostrom56/index.html>
23. Fuselage structural repair and related composite airframe support: Valerie and Robert Harris (both A&P's with a lot of type experience) 901-476-5376, or VHARRIS509@AOL.COM

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MAIN AND NOSE GEAR

1. For brake pads, brake calipers, tires, brake line tubing, fittings, wheels and brake disks, see the Parts Catalog section. Wicks Aircraft Supply www.wicksaircraft.com and Aircraft Spruce <http://www.aircraftspruce.com> both carry these parts.
2. Nose Lift (Electro-mechanical) Manufacturers:
 - a. Bill & Donna Oertel, 3216 Bronco Lane, Norco, CA 92860-1817, 909-738-8300
ezeflight@earthlink.net
 - b. Jack Wilhelmson, 686 Pelzer Dr. Mt Pleasant, SC 29464-3556, 803-884-5061
wilhelms@scra.org
 - c. Steve Wright: <http://www.canard.com/noselift>, <http://bluemountainavionics.com/>
3. Ken Brock Manufacturing, 11852 Western Ave. Stanton, CA 90680 (714-898-4366) – manual nose gear retract mechanism
4. Tires: The small tires formerly known as Lamb, are now called Cheng Shin. Wicks and Aircraft Spruce carry them. Try also Stan Susman at stanpfa@pacbell.net. He has the 11.400x5 main tire for \$14.50 and the nose tire for \$9.00 Prices include tubes (current as of October, 2000). For 5.00x5 retreads (retreads wear better than new) \$35 per tire, Williamson Tire Company Home page: <http://members.aol.com/jamesl1013/tires/wilkerson.html> (Virginia)
5. Brakes/wheels -- A new brake said to work better than Cleveland or Matco is Grove Aircraft. Buy direct from - www.groveaircraft.com
6. Bill Theeringer's Nose Gear Ratchet, http://149.174.34.11/homepages/composite_aircraft_accessories/nosegear.htm

METHODS AND PROCEDURES

1. Workshops sponsored by EAA: SportAir, 800-967-5746, www.sportair.com or sportair@eaa.org
2. The AeroElectric Connection: A great reference by Bob Nuckolls who draws from his engineering experiences in the aviation industry. It contains the theory, operation, design, and fabrication techniques for almost every aircraft electrical issue you will ever encounter. (316-685-8617)
www.aeroelectric.com

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PARTS CATALOGS

1. AIRCRAFT PARTS NETWORK (AUSTRALIA) <http://bilby.wn.com.au/gol/aviation/apn/timsjump.html>
2. Vortex Generators – molded polycarbonate, <http://www.mywebco.com/cci/>, or from Aircraft Spruce. Part No. 05-00001 VORTEX GENERATOR KIT LONG-EZ, <http://www.aircraftspruce.com>
3. Small Parts, Inc.: another good company for small (prototype) quantities of needed metals (brass rod, aluminum tubing, Delron, nylon rod, etc). www.smallparts.com
4. McMaster-Carr: a huge catalog company with an on-line connection for silicon rubber sheets, bakelite, Teflon rods, tools and many more kinds of unique products, <http://www.mcmaster.com>
5. Metric parts: Go to <http://rswwww.com> It's a European version of McMaster Carr.
6. For other needs, reference a copy of Sport Aviation or Kitplanes, and look in the advertisers' section.
7. Long-EZ Suppliers & Services: This is a reference source of about 100 listings applies to all the composite canards with names and phone numbers:
www.machines.com/homebuilt/ezsupplier.html
8. Wicks Aircraft Supply, 410 Pine Street, Highland, IL 62249 - 800-221-9425
www.wicksaircraft.com
8. Aircraft Spruce and Specialty Company
900 S. Pine Hill Rd., Griffin, GA 30223, 877-477-7823 (or) email: <http://www.aircraftspruce.com>
9. Chief Aircraft: www.chiefaircraft.com
10. Cleveland Brake, 800-272-5464, source for larger brakes from Cleveland
11. San-Val, many engine parts, 818-786-8274
12. Wag-Aero, Inc., Box 181 1216 Norta Rd, Lyons, WI 53148
13. Aircraft Tool Supply Company: 800-248-0638, <http://www.aircraft-tool.com> They sell desiccant among other things. It comes in many formats.
14. <http://www.thomasregister.com/olc/sphinx/> Sphinx sells all kinds of desiccant drying material.
15. Aircraft bolts, nuts, pulleys, SS cable, pins, and other assorted surplus piece parts. Try calling B&B Aircraft Supplies (Danny Brown) at 913-884-5930 in Gardner, KS
16. Edmunds Scientific: <http://www.scientificonline.com>, 800-728-6999
<http://www.edmundoptics.com/Find/Find.cfm?query=fiber&>
17. Debbie Iwatate's EZ mods: 1699 April Loop, Richland, WA 99352, DEBIKO@3-CITIES.COM
18. Landing Brake Actuators: The Motion Industries electric linear actuator (Electrac model S12-17A8-04CE) through Brian Perin at Motion Industries, 858 E. 5th St. Oxnard, CA 93030. 805-487-4877. E-mail address is admiralalmanac@yahoo.com. They are rated at 75 lbs. The single lot price is \$161.00 plus shipping.

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PROPELLERS & EXTENSIONS

1. Gary Hertzler, Mesa, AZ, <mailto:hertzler@yahoo.com>
2. Craig Catto, Mokelumne, CA 209-754-3553, <http://www.cattoprops.com>
3. Performance Props, 602-394-2059
4. Ted's Props, Ted Hendrix, now out of business (business bought by Robear in Chicago area, but different style and nothing like Ted's Props. Negative business performance history.)
5. Warnke Props, 602-682-2550
6. B&T, Bruce Tiffits, business sold, now try Featherlite: fthrlite@pacific.net or (707) 895-2718 (may no longer be making props)
7. Sensenich Wood Propellers, 813-752-3711, <http://www.sensenichprop.com>
8. Great American, out of business
9. Prince Aircraft Co., P-Tip props, Waterhouse, OH, 419-877-5557, propellers@aol.com
10. MT Propellers, electrically adjustable, 386-736-7762, mailto:mtpropusa@aol.com
11. Ed Sterba Aircraft Propellers: 941-778-3103
12. Amar Demouth propellers (410) 461-4329, metal leading edges
13. SAE1 versus SAE2: The bolt circle (BC) diameter of SAE 1 is 4.375 (4 3/8). SAE 2 is 4.75(4 3/4).

14. Prop Extensions: <http://www.geocities.com/sabermfg/> Sam Tillman, the new owner of Sabre, claims they have never had a single structural failure in the 6 years of making prop extensions. SABRE MANUFACTURING, 3601 NASSAU COURT, GRANBURY, TX 76049
TEL: 817-326-6293

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MATERIALS

1. Check the parts catalogs

BUILDER TOOLS

1. **ELECTRIC HEATERS** for the shop area: www.northerntool.com (Ceiling –mounted auto heater, model FUH5-4, 270 CFM, thermostatic control, 240 V, 5,000 watts, 17,065 BTU/hr at 21 amps.
2. **RESIN MEASURING TOOLS:** Use a volume ratio pump from one of the parts suppliers, or use an electronic postal scale (accuracy of 0.1 ounces) from an office supply store if you know weight ratio.
3. **DC VARIABLE POWER SUPPLY** – Use it to power your electric socks or other winter weather flying apparel. If you're not adverse to assembling and soldering a small electronic PCB, check out the 12 VDC motor speed controller at:
<http://www.mpja.com/productview.asp?product=4057+MD>

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WEATHER WEB SITES

1. WEATHER, 300+ SITES [HTTP://CIRRUS.SPRL.UMICH.EDU/WXNET/SERVERS.HTML](http://CIRRUS.SPRL.UMICH.EDU/WXNET/SERVERS.HTML)
2. WEST STAR AVIATION, INC [HTTP://WWW.ITI2.NET/WESTSTAR](http://WWW.ITI2.NET/WESTSTAR)
3. WEATHER INFORMATION: [HTTP://WWW.AVWEB.COM](http://WWW.AVWEB.COM)
(LINKS TO MANY WX WEB SITES)
[HTTP://THUNDER.ATMS.PURDUE.EDU/](http://THUNDER.ATMS.PURDUE.EDU/)
(WXP WEATHER PROC.)
[HTTP://CIRRUS.SPRL.UMICH.EDU/WXNET/RADSAT.HTML](http://CIRRUS.SPRL.UMICH.EDU/WXNET/RADSAT.HTML)
(UNIV OF ILL WEATHER WORLD PAGE)
[HTTP://THUNDER.MET.FSU.EDU:80/NWS/PUBLIC_HTML/WXHWY.HTML](http://THUNDER.MET.FSU.EDU:80/NWS/PUBLIC_HTML/WXHWY.HTML)
(NOAA WEATHER INFO SUPERHWY)
[HTTP://WWW.USATODAY.COM/WEATHER/WPILOTS0.HTM](http://WWW.USATODAY.COM/WEATHER/WPILOTS0.HTM)
(USA TODAY WEATHER PAGES)
[HTTP://RAP.UCAR.EDU/STAFF/GTHOMPSN/CUR_WX/AVIATION.HTML](http://RAP.UCAR.EDU/STAFF/GTHOMPSN/CUR_WX/AVIATION.HTML)
(GRAPHIC PLOTTING OF PIREPS, TURBULENCE, ICING CONDITIONS, ETC)
[HTTP://WWW.AWC-KC.NOAA.GOV/AWC/NEURAL_NET-ICING.HTML](http://WWW.AWC-KC.NOAA.GOV/AWC/NEURAL_NET-ICING.HTML)
(NEURAL NET ICING FORECASTS)
4. EUROPEAN WEATHER INFO: <http://www-imk.physik.uni-karlsruhe.de/metbest.html>
5. Weather Data -- <http://adds.aviationweather.noaa.gov/projects/adds/>
6. Check out this new ice prediction tool. Move your mouse up and down the table to the left to see results. <http://cdm.aviationweather.noaa.gov/cip/>
7. Temporary Flight Restrictions resulting from 9-11-01: Check this site for locations:
<http://www.aerochart.com/mapping/tfr.cfm>
8. Check it out...it's free...good for when you are traveling.
877 269-2967 www.anyawos.com

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