

# **AeroCanard**™

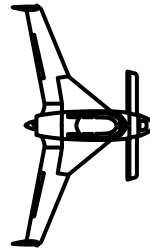
## **KIT INFORMATION**



**[WWW.AEROCAD.COM](http://WWW.AEROCAD.COM)**

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# **AeroCanard**™



## **INTRODUCTION:**

**Q:** What do you get if you cross the design and flying qualities of the COZY MKIV with the fast-build, kit convenience and roominess of the Velocity?

**A:** You get the AeroCanard, a new four-place canard kit plane. The AeroCanard prototype flew to Oshkosh '95 in primer, but even before that the company had delivered 18 kits. Jeff Russell, AeroCad's founder, says the new kit plane resembles the Cozy Mark IV, with changes made for the sake of roominess, convenience, and performance. However, construction methods and build time--an estimated 1,200 to 1,500 hours--the AeroCanard bears an uncanny resemblance to a Velocity.

The AeroCanard kit includes a pre-molded lower fuselage, top, and fuel strakes; prefabricated spars and pre-cut foam cores; and numerous smaller parts that can be time-consuming to make - including wheel pants, canard tips, instrument panel and various NACA inlet scoops to name a few. The kit can be purchased all at once, says Russell, or as 16 separate sub kits with or without the hardware (wheels, axles, brakes, etc. and raw materials fiberglass, resin, etc.), excluding engine, avionics and paint. The complete kit includes everything needed to complete the airframe--even down to paint brushes and resin mixing cups.

On its maiden cross-country flight to Oshkosh, the prototype met all performance goals, says Russell. "We were flying heavy, hot and dirty--at 2,100 pounds, down low, in 95-degree heat; and with rough primer, no wheel pants, and a prop that hasn't been optimized yet. Despite all that, at 2540 rpm, we were seeing 185 knots true. At economy cruise--2,150 to 2,200 rpm--the plane delivered 160 knots true, on 7.5 to 7.8 gallons per hour. Wheel pants, slick paint, and a smaller prop could add another 20 knots to the top end, Russell predicts, adding, "I can't wait to see what this plane will do once everything's cleaned up."

AeroCad and the Russell's are not newcomers to the composite homebuilt scene. The company has been prefabbing molded parts and subassemblies for Long-EZs, Cozys, Berkuts, E-racers and other composite planes for the past 6 years. Aerocad has also been working at Sun-N-Fun and Oshkosh Workshops for past several years to show homebuilders how to get higher quality components from vacuum bagging and different finishing techniques. As for Russell, he's one of the few people around who has built both a Velocity RG and a Cozy. His Cozy took plans built champion at Oshkosh in 1991. "What's more, Russell and his business partner--his father Greg, a former Rockwell engineer--came close to buying Velocity from Dan Maher a few years back. So it's not surprising that when it came time to scale up to a complete kit plane, AeroCad's design would incorporate features of both designs. "We've really tried to combine the best of both," Russell says, "and so far our builders seem to think we've succeeded."

At first glance, the AeroCanard is indistinguishable from a stock Cozy MKIV. Look closer, though and you'll see some key differences. Inside the cockpit, the front seat offers 2 inches more headroom and 2 inches more headroom width. In the back seat--where the Cozy tends to live up to its name--the AeroCanard is 3.5 inches wider 2 inches taller and has a whopping 7 inches more headroom width. In addition the brakes and rudder pedals are adjustable on both sides not just the right side.

Outside the cockpit, AeroCad has replaced the Cozy's manual speed brake with an electrically actuated one. The wheels and brakes are beefier--6x6.00 instead of 5x5.00--giving the AeroCanard roughly twice the stopping power of the Cozy "At light loading," says Russell. "I can stop in 1,000 feet. Behind the firewall the AeroCanard is designed for a 200-hp Fuel-injected Lycoming, which gives it better takeoff and climb performance. "At light loading, I can get off the runway in 1,000 feet and climb at 1,700 to 1,900 feet per minute," Russell says, "At gross--2,100 pounds--I can get off in 1,500 feet and climb at 900 to 1,000 feet per minute at the same 95-degree day.

One interesting option AeroCad offers for its kit is an electric lift to replace the manual nosegear mechanism. "This lets you board the plane nose-down, then raise the gear electrically," says Russell. "That makes a big difference with a plane this heavy." Velocity attacked this problem another way by selling an option called "the Elite" which adds gullwing doors to both sides adding complexity and \$3,000 to their kit. Another departure from the Cozy design is the option of installing the canopy as a wraparound windshield rather than a full bubble.

Because of its many design similarities to the Cozy, It's worth noting that the AeroCanard was being produced under a licensing agreement with Nat Puffer of Co-z Development Corp. In fact, AeroCad is also offering a kit version of the standard Cozy Mk1V design, now called the AeroCanard SB (Small Body). Like the AeroCanard FG the SB kit is available either as a complete kit or as 16 separate sub kits. The SB can also be purchased with or without the raw material. It's nearly \$2,000 less than the AeroCanard FG kit. The reason says Russell, is that the SB kit includes fewer molded parts, and the fuselage top is not as fully prefabbed. Still Russell figures the SB kit should save a Cozy or SB builder 1,000 plus hours, and at a cost that's not much higher than the scratch-build version."

AeroCad's new best-of-both worlds means you can start a Cozy plans built kit and finish it with as many AeroCanard molded parts from us as you want. Convert a Cozy MKIV per plans model using AeroCanard larger parts which now makes it look like an AeroCanard, this gives more headroom than the standard Cozy. Or build a kit by completely using molded parts and our modified plans, paying for them one sub kit at a time (16 sub kits) with no increase in price. With more options, AeroCad Inc. hopes to see a higher percentage of airplanes completed with less money out of customer's pocket, especially at one time.

## SPECS:

# AeroCanard SB <sup>TM</sup>



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## AeroCanard SB

|                         |                      |                        |                 |
|-------------------------|----------------------|------------------------|-----------------|
| <b>Useful Load:</b>     | <b>900</b>           | <b>Gross Weight:</b>   | <b>2050</b>     |
| <b>Kit Price:</b>       | <b>\$32,300.00</b>   | <b>Height:</b>         | <b>7.8</b>      |
| <b>Manufacturer:</b>    | <b>AeroCad, Inc.</b> | <b>Length:</b>         | <b>16.8</b>     |
| <b>Engine:</b>          | <b>Lyc LIO-360</b>   | <b>Wing Span:</b>      | <b>28.1</b>     |
| <b>Max. Speed</b>       | <b>220</b>           | <b>Wing Area:</b>      | <b>102.3</b>    |
| <b>Cruise:</b>          | <b>200</b>           | <b>Fuel Capacity:</b>  | <b>52</b>       |
| <b>Stall</b>            | <b>68 kts</b>        | <b>Wing Design:</b>    | <b>canard</b>   |
| <b>Range:</b>           | <b>1000</b>          | <b>Seats:</b>          | <b>4</b>        |
| <b>Rate of Climb:</b>   | <b>1500</b>          | <b>Landing Gear:</b>   | <b>tri/nose</b> |
| <b>Take off Dist:</b>   | <b>800</b>           | <b>Materials:</b>      | <b>C</b>        |
| <b>Landing Dist:</b>    | <b>1200</b>          | <b>Hours To Build:</b> | <b>1500</b>     |
| <b>Service Ceiling:</b> | <b>20000</b>         | <b>Number Built:</b>   | <b>2</b>        |
| <b>Horse Power:</b>     | <b>200</b>           | <b>Info Price:</b>     | <b>Free</b>     |
| <b>Empty Weight:</b>    | <b>1150</b>          | <b>Plans Price:</b>    | <b>N/A</b>      |

**Comments:** Four-place composite design. Parts can be purchased as a total kit or piece by piece.

*TOTAL KIT PRICE: \$19,320.00.00 less raw materiel and hardware. Crating charge per crate (\$475.00) 2 crate minimum per total kit 20% Down & Purchase Agreement signed to process orders / FOB St.Louis, MO/MO tax when applicable Plumbing, electrical, engine or engine related parts, avionics, interior upholstery, finishing materials and paint are not included with the SB kit. Plans and 10 construction videos come with kit. These parts all fit the plans built Cozy MkIV.*

## SPECS:

# AeroCanard FG <sup>TM</sup>



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## AeroCanard FG Specs:

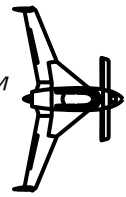
|                  |               |                 |          |
|------------------|---------------|-----------------|----------|
| Useful Load:     | 950           | Gross Weight:   | 2150     |
| Kit Price:       | \$33,795.00   | Height:         | 7.75     |
| Manufacturer:    | AeroCad, Inc. | Length:         | 16.75    |
| Engine:          | Lyc IO-360    | Wing Span:      | 28.1     |
| Max. Speed       | 225           | Wing Area:      | 102.3    |
| Cruise:          | 205           | Fuel Capacity:  | 63.5     |
| Stall            | 62 kts        | Wing Design:    | canard   |
| Range:           | 1300          | Seats:          | 4        |
| Rate of Climb:   | 1800          | Landing Gear:   | tri/nose |
| Take off Dist:   | 800           | Materials:      | C        |
| Landing Dist:    | 1500          | Hours To Build: | 1500     |
| Service Ceiling: | 25000         | Number Built:   | 17       |
| Horse Power:     | 200           | Info Price:     | Free     |
| Empty Weight:    | 1200          | Plans Price:    | \$500    |

**Comments:** Larger fuselage with retractable nose gear and fixed main gear. Kit can be spread out over 16+ individual subkits at no extra cost. Kits include 10 videos and construction manual. Kit less raw material/hardware, \$21,475.



## SPECS:

# AeroCanard RG <sup>TM</sup>



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## AeroCanard RG

|                         |                      |                        |                 |
|-------------------------|----------------------|------------------------|-----------------|
| <b>Useful Load:</b>     | <b>850</b>           | <b>Gross Weight:</b>   | <b>2150</b>     |
| <b>Kit Price:</b>       | <b>\$38,675</b>      | <b>Height:</b>         | <b>7.8</b>      |
| <b>Manufacturer:</b>    | <b>AeroCad, Inc.</b> | <b>Length:</b>         | <b>16.8</b>     |
| <b>Engine:</b>          | <b>Lyc LIO-360</b>   | <b>Wing Span:</b>      | <b>28.1</b>     |
| <b>Max. Speed</b>       | <b>230</b>           | <b>Wing Area:</b>      | <b>102.3</b>    |
| <b>Cruise:</b>          | <b>210</b>           | <b>Fuel Capacity:</b>  | <b>50</b>       |
| <b>Stall</b>            | <b>68 kts</b>        | <b>Wing Design:</b>    | <b>canard</b>   |
| <b>Range:</b>           | <b>1000</b>          | <b>Seats:</b>          | <b>4</b>        |
| <b>Rate of Climb:</b>   | <b>1900</b>          | <b>Landing Gear:</b>   | <b>tri/nose</b> |
| <b>Take off Dist:</b>   | <b>800</b>           | <b>Materials:</b>      | <b>C</b>        |
| <b>Landing Dist:</b>    | <b>1500</b>          | <b>Hours To Build:</b> | <b>1500</b>     |
| <b>Service Ceiling:</b> | <b>25000</b>         | <b>Number Built:</b>   | <b>17</b>       |
| <b>Horse Power:</b>     | <b>200</b>           | <b>Info Price:</b>     | <b>Free</b>     |
| <b>Empty Weight:</b>    | <b>1300</b>          | <b>Plans Price:</b>    | <b>N/A</b>      |

### Comments:

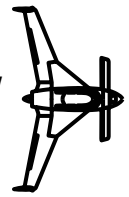
Same as FG but with an electrical retractable nose gear and electro/hydraulic main gear. Kit can be spread out over 16+ individual subkits at no extra cost. Kit includes 10 videos and const. manual. Kit less raw material/hardware, \$26,3345.





## **SPECS:**

# AeroCanard SX™



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## AeroCanard SX

|                         |                      |                        |                 |
|-------------------------|----------------------|------------------------|-----------------|
| <b>Useful Load:</b>     | <b>950</b>           | <b>Gross Weight:</b>   | <b>2150</b>     |
| <b>Kit Price:</b>       | <b>\$34,235.00</b>   | <b>Height:</b>         | <b>7.8</b>      |
| <b>Manufacturer:</b>    | <b>AeroCad, Inc.</b> | <b>Length:</b>         | <b>16.8</b>     |
| <b>Engine:</b>          | <b>Lyc IO-360</b>    | <b>Wing Span:</b>      | <b>28.1</b>     |
| <b>Max. Speed</b>       | <b>225</b>           | <b>Wing Area:</b>      | <b>102.3</b>    |
| <b>Cruise:</b>          | <b>205</b>           | <b>Fuel Capacity:</b>  | <b>63.5</b>     |
| <b>Stall</b>            | <b>62 kts</b>        | <b>Wing Design:</b>    | <b>canard</b>   |
| <b>Range:</b>           | <b>1300</b>          | <b>Seats:</b>          | <b>4</b>        |
| <b>Rate of Climb:</b>   | <b>1800</b>          | <b>Landing Gear:</b>   | <b>tri/nose</b> |
| <b>Take off Dist:</b>   | <b>800</b>           | <b>Materials:</b>      | <b>C</b>        |
| <b>Landing Dist:</b>    | <b>1500</b>          | <b>Hours To Build:</b> | <b>1500</b>     |
| <b>Service Ceiling:</b> | <b>25000</b>         | <b>Number Built:</b>   | <b>1</b>        |
| <b>Horse Power:</b>     | <b>200</b>           | <b>Info Price:</b>     | <b>Free</b>     |
| <b>Empty Weight:</b>    | <b>1200</b>          | <b>Plans Price:</b>    | <b>N/A</b>      |

### Comments:

The top on the new AeroCanard SX is the major change to the standard AeroCanard FG fuselage. Kit can be spread out over 16+ individual subkits at no extra cost. Kit includes 10 videos and const. manual. Kit less raw material/hardware, \$ 21,915.



# AeroCanard SB™



## DETAILS:

### AeroCanard SB KIT INFO

\$32,300.00 with raw material  
\$19,320.00 without raw material

### FUSELAGE Kits

#### **Upper & Lower Half (Kits): \$5945.00**

Molded PVC / Vacuum bagged composite shell with Epoxy primer outer coat, pre-marked for all cutouts **(TOP)** Nose, Canard cover \$357.50, Turtle-Back \$650.00, Upper Cowling \$450.00 **(BOTTOM)** Lower nose \$450.00, Fuselage tub with Longerons \$3495.00, Lower Cowling \$390.00

### **FUEL/BAGGAGE STRAKES Kits: \$2375.00**

2 Upper, 2 Lower, Molded PVC / Vacuum bagged composite shell with Epoxy primer outer coat

### **SPAR SECTIONS:**

**Spars are match-drilled** including bushings **\$650.00**

**Main Wing Spar (Kits):** 2 pre-molded **\$1595.00**

**Center Section Spar (Kit):** pre-molded box spar **\$2495.00**

**Canard Spar (Kit):** 1 pre-molded **\$650.00**

### **FOAM CORES:**

All foam cores are pre-cut with level lines in place for proper alignment

**Wing Cores (Kits):** 2 leading edge, 3 trailing edge - both wings. **\$1150.00**

**Winglet Cores (Kits):** 2 uppers, 2 lowers for both wings **\$485.00**

**Canard Cores (Kits):** 4 leading edge, 4 trailing edge, 2 ends **\$280.00**

**Elevators (Kits):** 4 cores **\$65.00**

### **LANDING GEAR (Kits options):**

**Mains:** 1 piece pre-molded S-2 fiberglass **with-out** UNI raps **CALL**

**Standard Mains:** 1 piece pre-molded S-2 fiberglass **with-first** UNI raps **CALL**

**Mains:** 1 piece pre-molded S-2 fiberglass with UNI raps, trailing edge and gear tabs **CALL**

**Nose:** 1 piece pre-molded S-2 fiberglass **CALL**





**MOLDED FAIRING (Kits): \$2255.00**

- Wheel pants: 2 Mains \$300.00
- 2 - Main gear to fuselage fairing \$95.00
- 3 - Air outlet scoops \$65.00
- 1 - Spinner & Airflow guide \$205.00
- 1 - Front composite seat bottoms \$125.00
- 1 - Rear composite seat bottoms \$125.00
- 3 - NACA Inlets \$65.00
- 4 - Molded armrests - front & back \$250.00
- 2 - Arm pit scoops \$65.00
- 2 - Canard tips \$65.00
- 1 - 3 1/2 gallon fuel sump tank & cover \$105.00
- 1 - Instrument panel \$195.00
- 1 - Instrument cover \$65.00
- 1 - Nose cone and door \$115.00
- 1 - Nose wheel cover \$65.00
- 2 - map pockets \$55.00
- 1 - Nose wheel & strut doors \$105.00

**WINDOWS (Kits): \$260.00**

4 rear windows - 1/8" Plexiglas ( light tint).

**HARDWARE / RAW MATERIAL / CONTROL SYSTEM: \$12,980.00 PURCHASED FROM: WICKS, AIRCRAFT SPRUCE West and East & BROCK MANUF.**

All **AN** hardware: nuts, bolts, screws, washers, hinges, pulleys, and cables to complete airframe.

\* All pre-machined parts for complete control, brake, trim, and door systems. (No welding necessary).

\* Hinges for canard-elevator assembly. All Mil-spec hinges for ailerons, rudders, door, & speed brake.

\* Electrical actuator and related parts for trim and speed brake systems.

\* Brake lines, and HD 5" Cleveland brakes.

\* 2 - 500-5 low profile main wheels, tires/tubes.

\* 1 - 340 x 5.00 nose wheel, tire/tube.

\* Engine mount (Lycoming engine 0-320 to I0-360 160 HP - 200 HP).

\* All fiberglass cloth, epoxy resin, foam plywood core material, Supply of application brushes, fillers, extenders, & mixing sticks.

Pre-formed full bubble, 3/16" Plexiglas canopy (clear or light tint),

\* 2 - Extruded aluminum I-beam straightedges (wing/canard construction).

**Side Sticks:** 3 axis

**Trim:** Pitch & Roll

**Speed Brake:** Electric

**Rudder Pedals:** Fully adjustable Pilot & Copilot

**Brakes:** Master cylinders, Pilot & Copilot

# AeroCanard FG™



## DETAILS:

### AeroCanard SB KIT INFO

\$33,795.00 with raw material  
\$21,475.00 without raw material

### FUSELAGE Kits

**Upper & Lower Half (Kits): \$7995.00**

Molded PVC /Vacuum bagged composite shell with Epoxy primer outer coat, pre-marked for all cutouts **(TOP)** Nose, Canard cover, Turtle-Back, Upper Cowling \$4595.00 **(BOTTOM)** Lower nose \$450.00, Fuselage tub with Longerons \$3495.00, Lower Cowling \$455.00

### **FUEL/BAGGAGE STRAKES Kits: \$2375.00**

2 Upper, 2 Lower, Molded PVC /Vacuum bagged composite shell with Epoxy primer outer coat

### **SPAR SECTIONS:**

**Spars are match-drilled** including bushings \$650.00

**Main Wing Spar (Kits):** 2 pre-molded \$1595.00

**Center Section Spar (Kit):** pre-molded box spar \$2495.00

**Canard Spar (Kit):** 1 pre-molded \$650.00

### **FOAM CORES:**

All foam cores are precut with level lines in place for proper alignment

**Wing Cores (Kits):** 2 leading edge, 3 trailing edge - both wings. \$1150.00

**Winglet Cores (Kits):** 2 uppers, 2 lowers for both wings \$485.00

**Canard Cores (Kits):** 4 leading edge, 4 trailing edge, 2 ends \$280.00

**Elevators (Kits):** 4 cores \$65.00

### **LANDING GEAR (Kits options):**

**Mains:** 1 piece pre-molded S-2 fiberglass **with-out** UNI raps **CALL**

**Standard Mains:** 1 piece pre-molded S-2 fiberglass **with-first** UNI raps **CALL**

**Mains:** 1 piece pre-molded S-2 fiberglass with UNI raps, trailing edge and gear tabs **CALL**

**Nose:** 1 piece pre-molded S-2 fiberglass **CALL**

**MOLDED FAIRING (Kits): \$2360.00**

- Wheel pants: 2 Mains \$300.00
- 2 - Main gear to fuselage fairing \$95.00
- 3 - Air outlet scoops \$65.00
- 1 - Spinner & Airflow guide \$205.00
- 1 - Front composite seat bottoms \$125.00
- 1 - Rear composite seat bottoms \$125.00
- 3 - NACA Inlets \$65.00
- 4 - Molded armrests - front & back \$250.00
- 2 - Arm pit scoops \$65.00
- 2 - Canard tips \$65.00
- 1 - 3 1/2 gallon fuel sump tank & cover \$105.00
- 1 - Instrument panel \$195.00
- 1 - Instrument cover \$65.00
- 1 - Nose cone and door \$115.00
- 1 - Nose wheel cover \$65.00
- 2 - Fuselage Conduits \$105.00
- 2 - map pockets \$55.00
- 1 - Nose wheel & strut doors \$105.00

**WINDOWS (Kits): \$260.00**

- 4 rear windows - 1/8" Plexiglas ( light tint).



**HARDWARE / RAW MATERIAL / CONTROL SYSTEM: \$12,320.00 PURCHASED FROM: WICKS, AIRCRAFT SPRUCE West and East & BROCK MANUF.**

All **AN** hardware: nuts, bolts, screws, washers, hinges, pulleys, and cables to complete airframe.

\* All pre-machined parts for complete control, brake, trim, and door systems. (No welding necessary).

\* Hinges for canard-elevator assembly. All Mil-spec hinges for ailerons, rudders, door, & speed brake.

\* Electrical actuator and related parts for trim and speed brake systems.

\* Brake lines, and HD 6" Cleveland brakes.

\* 2 - 600-6 low profile main wheels, tires/tubes.

\* 1 - 340 x 5.00 nose wheel, tire/tube.

\* Engine mount (Lycoming engine 0-320 to IO-360 160 HP - 200 HP).

\* All fiberglass cloth, epoxy resin, foam plywood core material, Supply of application brushes, fillers, extenders, & mixing sticks.

Pre-formed full bubble, 3/16" Plexiglas canopy (clear or light tint),

\* 2 - Extruded aluminum I-beam straightedges (wing/canard construction).

**Side Sticks:** 3 axis

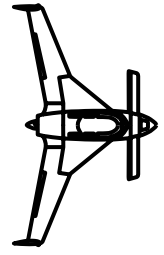
**Trim:** Pitch & Roll

**Speed Brake:** Electric

**Rudder Pedals:** Fully adjustable Pilot & Copilot

**Brakes:** Master cylinders, Pilot & Copilot

# AeroCanard RG™









## ***AeroCanard Feature Comparison***

| <b>Aircraft Item</b>          | <b>AeroCanard-SB</b>      | <b>AeroCanard-FG<br/>AeroCanard-RG</b> | <b>AeroCanard-SX</b>           | <b>Velocity FG</b>      |
|-------------------------------|---------------------------|--|--------------------------------|-------------------------|
| Front Seat                    | 42.00"                    | 42.00"                                 | 42.50"                         | 42.50"                  |
| Rear Seat                     | 36.00"                    | 39.50"                                 | 40.50"                         | 39.50"                  |
| Head Room Width<br>Front Seat | 36.00"                    | 38.00"                                 | 40.00"                         | 40.00"                  |
| Head Room Width<br>Rear Seat  | 36.00"                    | 38.00"                                 | 40.00"                         | 38.00"                  |
| Engines Used                  | O-320 - IO-360            | O-320 - IO-360                         | O-320 - IO-360                 | O-320 - IO-360          |
| Control Stick                 | 2 Side Sticks             | 2 Side Sticks                          | 2 Side Sticks                  | 1 Center Sick           |
| Throttle Quadrant             | Center                    | Center                                 | Center                         | Left Side Only          |
| Brake Pedals<br>(Adjustable)  | Both Sides 5"             | Both Sides 5"                          | Both Sides 5"                  | Both Sides 2"           |
| Speed Brake                   | Electric                  | Electric                               | Electric                       | Electric                |
| Cockpit Heat                  | Muff Off Exhaust          | Nose Oil Cooler                        | Nose Oil Cooler                | Nose Oil Cooler         |
| Standard Main Wheels          | 600-6 Double Puck         | 600-6 Double Puck                      | 600-6 Double Puck              | 600-6 Single Puck       |
| Main Gear                     | Removable                 | Removable-FG<br>Retractable-RG         | Removable-FG<br>Retractable-RG | Non-Removable           |
| Removable Instrument Cover    | Yes                       | Yes                                    | Yes                            | No                      |
| Empty Weight                  | 1150 Lbs                  | 1200 Lbs                               | 1200 Lbs                       | 1300 Lbs                |
| Gross Weight                  | 2050 Lbs                  | 2150 Lbs                               | 2150 Lbs                       | 2250 Lbs                |
| Useful Load Less Fuel         | 900 Lbs                   | 950 Lbs                                | 950 Lbs                        | 950 Lbs                 |
| Fuel Useful                   | 63 Gal                    | 63 Gal                                 | 63 Gal                         | 65 Gal                  |
| Fuel Tanks                    | Selector/1.5 Gal.<br>Sump | No Switch/3.5 Gal<br>Sump              | No Switch/3.5 Gal<br>Sump      | No Switch/5<br>Gal Sump |
| Type Seats Used               | F/Bucket<br>R/Bucket      | F/Bench R/Bench                        | F/Bench R/Bench                | F/Bucket<br>R/Bench     |
| Nose Gear (Standard)          | Retractable               | Retractable                            | Retractable                    | Fixed                   |
| Time To Build                 | 1400 MH                   | 1400 MH                                | 1400 MH                        | 1400 MH                 |
| Total Kit Breakdown           | 16 Kits                   | 16 Total                               | 16 Total                       | 2 Total                 |

## **AeroCanard Performance Comparison**

| Item                            | AeroCanard-SB      | AeroCanard-FG      | AeroCanard-RG      | AeroCanard-SX      |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|
|                                 | (Fixed Gear)       | (Fixed Gear)       | (Retractable Gear) | (Fixed Gear)       |
| Top Speed, MPH                  | 220                | 225                | 225                | 225                |
| Cruise Speed, MPH               | 200                | 205                | 210                | 205                |
| Range, SM                       | 1000               | 1000               | 1000               | 1000               |
| Rate of Climb, FPM              | 1500               | 1700               | 1900               | 1700               |
| Take Off Roll, Ft.              | 1200               | 800                | 800                | 800                |
| Landing Distance, Ft.           | 1500               | 1500               | 1500               | 1500               |
| Service Ceiling, Ft.            | 20,000             | 25,000             | 25,000             | 25,000             |
| Engine Used                     | Lyc O-360          | Lyc LIO-360        | Lyc LIO-360        | Lyc LIO-360        |
| HP/HP Range                     | 180/160-200        | 200/160-200        | 200/160-200        | 200/160-200        |
| Fuel Capacity, Gal.             | 52                 | 63                 | 50                 | 63                 |
| Empty Weight, Lb.               | 1150               | 1200               | 1300               | 1200               |
| Gross Weight, Lb.               | 2050               | 2150               | 2150               | 2150               |
| Height, Ft.                     | 7.75               | 7.75               | 7.75               | 7.75               |
| Length, Ft.                     | 16.75              | 16.75              | 16.75              | 16.75              |
| Wing Span, Ft.                  | 28.1               | 28.1               | 28.1               | 28.1               |
| Wing Area, Sq. Ft.              | 102.3              | 102.3              | 102.3              | 102.3              |
| Number of Seats                 | 4                  | 4                  | 4                  | 4                  |
| Landing Gear                    | Tri/Nose Gear/R    | Tri/Nose Gear/R    | Tri/R              | Tri/Nose Gear/R    |
| Bldg. Materials                 | Composite          | Composite          | Composite          | Composite          |
| Bldg. Time, Man Hours           | 1500               | 1400               | 1700               | 1400               |
| Number Completed/Flown          | N/A                | 15                 | 2                  | N/A                |
| Info Pack                       | 10                 | 10                 | 10                 | 10                 |
| Plans Cost                      | N/A                | 500                | N/A                | N/A                |
| Total Kit Cost                  | <b>\$32,300.00</b> | <b>\$33,795.00</b> | <b>\$38,675.00</b> | <b>\$34,235.00</b> |
| Kits Less Raw Material/Hardware | <b>\$19,320.00</b> | <b>\$21,475.00</b> | <b>\$26,355.00</b> | <b>\$21,915.00</b> |

| <b>Kit Description</b>                          | <b>AeroCanard-SB</b> | <b>AeroCanard-FG</b> | <b>AeroCanard-RG</b> | <b>AeroCanard-SX</b> |
|---|----------------------|----------------------|----------------------|----------------------|
| Fuselage *                                      | 5945.00              | 7995.00              | 7995.00              | 8395.00              |
| Fuel/Baggage Strakes                            | 2395.00              | 2395.00              | 2395.00              | 2395.00              |
| Drill Spar Sections                             | 650.00               | 650.00               | 650.00               | 650.00               |
| Main Wing Spars                                 | 1595.00              | 1595.00              | 1595.00              | 1595.00              |
| Center Section Spar                             | 2495.00              | 2495.00              | 2495.00              | 2495.00              |
| Canard Spar                                     | 650.00               | 650.00               | 650.00               | 650.00               |
| Main Wing Foam Cores                            | 1150.00              | 1150.00              | 1150.00              | 1150.00              |
| Winglet Foam Cores                              | 485.00               | 485.00               | 485.00               | 485.00               |
| Canard Foam Cores                               | 280.00               | 280.00               | 280.00               | 280.00               |
| Elevator Foam Cores                             | 65.00                | 65.00                | 65.00                | 65.00                |
| Main Landing Gear                               | 980.00               | 980.00               | 5860.00              | 980.00               |
| S-2 Nose Landing Gear strut                     | 115.00               | 115.00               | 115.00               | 115.00               |
| Molded Fairings **                              | 2255.00              | 2360.00              | 2360.00              | 2360.00              |
| Windows   | 260.00               | 260.00               | 260.00               | 300.00               |
| AeroCad Total:                                  | 19320.00             | 21475.00             | 26355.00             | 21915.00             |
| Raw Materials and Hardware<br>(See parts lists) | 12980.00             | 12320.00             | 12320.00             | 12320.00             |
| Airframe Total:                                 | 32300.00             | 33795.00             | 38675.00             | 34235.00             |

| <b>* Fuselage Parts Included Above</b>     | <b>AeroCanard-SB</b> | <b>AeroCanard-FG</b> | <b>AeroCanard-RG</b> | <b>AeroCanard-SX</b> |
|--|----------------------|----------------------|----------------------|----------------------|
| Upper · Nose, Canopy, Turtle-Back, Cowling | N/A                  | 3595.00              | 3595.00              | 3995.00              |
| Upper · Nose, Canard Cover                 | 450.00               | N/A                  | N/A                  | N/A                  |
| Upper · Turtle-Back                        | 650.00               | N/A                  | N/A                  | N/A                  |
| Upper · Cowling                            | 450.00               | N/A                  | N/A                  | N/A                  |
| Lower · Nose                               | 450.00               | 450.00               | 450.00               | 450.00               |
| Lower · Fuselage Tub w/ Longerons          | 3495.00              | 3495.00              | 3495.00              | 3495.00              |
| Lower · Cowling                            | 450.00               | 455.00               | 455.00               | 455.00               |
| Total                                      | 5945.00              | 7995.00              | 7995.00              | 8395.00              |

| <b>** Individual Fairing Prices</b>      | <b>AeroCanard-SB</b> | <b>AeroCanard-FG</b> | <b>AeroCanard-RG</b> | <b>AeroCanard-SX</b> |
|--|----------------------|----------------------|----------------------|----------------------|
| Wheel Pants · 2 Mains                    | 300.00               | 300.00               | 300.00               | 300.00               |
| Main Gear to Fuselage · 2 Each           | 95.00                | 95.00                | 95.00                | 95.00                |
| Exhaust Pipe Fairing · 2 Each            | 95.00                | 95.00                | 95.00                | 95.00                |
| Air Outlet Scoops · 3 Each               | 65.00                | 65.00                | 65.00                | 65.00                |
| Spinner and Airflow Guide                | 205.00               | 205.00               | 205.00               | 205.00               |
| Front Composite Seat Bottoms             | 125.00               | 125.00               | 125.00               | 125.00               |
| Rear Composite Seat Bottoms              | 125.00               | 125.00               | 125.00               | 125.00               |
| NACA Inlet Scoops · 3 Each               | 65.00                | 65.00                | 65.00                | 65.00                |
| Molded Armrests, Front and Rear · 4 Each | 250.00               | 250.00               | 250.00               | 250.00               |
| Cowl to Wing Root Fairing · 4 Each       | 95.00                | 95.00                | 95.00                | 95.00                |
| Arm Pit Scoops · 2 Each                  | 65.00                | 65.00                | 65.00                | 65.00                |
| Canard Tips · 2 Each                     | 65.00                | 65.00                | 65.00                | 65.00                |
| 3 1/2 Gallon Fuel Sump Tank & Cover      | 105.00               | 105.00               | 105.00               | 105.00               |
| Instrument Panel                         | 195.00               | 195.00               | 195.00               | 195.00               |
| Instrument Cover                         | 65.00                | 65.00                | 65.00                | 65.00                |
| Nose Cone with Door                      | 115.00               | 115.00               | 115.00               | 115.00               |
| Nose Wheel Cover                         | 65.00                | 65.00                | 65.00                | 65.00                |
| Nose Wheel and Strut Doors               | 105.00               | 105.00               | 105.00               | 105.00               |
| Fuselage Conduits · 2 Each               | N/A                  | 105.00               | 105.00               | 105.00               |
| Map Pockets · 2 Each                     | 55.00                | 55.00                | 55.00                | 55.00                |
| <b>Total</b>                             | <b>2255.00</b>       | <b>2360.00</b>       | <b>2360.00</b>       | <b>2360.00</b>       |

| <b>AeroCanard Completed Wing Prices</b>                            |          |
|--|----------|
| All Wings Completed With Controls Surfaces Installed And balanced  | 14995.00 |
| Main Wings (Assembled With Top And Bottom Skins And Roots Glassed) | 9515.00  |
| Molded wing spars  | 1595.00  |
| Winglets (Upper And Lower Glassed With Antennas)                   | 695.00   |
| Install Winglets   | 595.00   |
| Cut Out Install All Controls                                       | 595.00   |
| Precut Foam Core Wing & Winglets                                   | 1630.00  |
| Precut Foam Core Canard & Elevator                                 | 350.00   |
| Center Section Spar  | 2495.00  |
| Center Section Spar Drilled And Bushings Installed                 | 650.00   |
| R1145MS Roncz Canard Complete With Elevator/Hardware Installed     | 3595.00  |
| R1145MS Roncz Canard Wing With Lift Tabs Installed                 | 2055.00  |
| Elevator/Hardware Installed  | 1540.00  |
| R1145MS Canard Spar  | 695.00   |
| Elevators Glassed To Torque Tubes Inserts Installed (Roncz Canard) | 595.00   |
| Elevators Glassed ( GU )   | 495.00   |
| Molded R1145MS Canard Tips   | 65.00    |
| Upper Winglets Glassed   | 520.00   |
| Lower Winglets Glassed   | 65.00    |

| <b>Items Not Required From Basic Kit With Completed Wings</b> |                |
|---|----------------|
| Main Wing Spars   | 1595.00        |
| Canard Spar   | 650.00         |
| Main Wing Foam Cores  | 1150.00        |
| Winglet Foam Cores  | 485.00         |
| Canard Foam Cores   | 280.00         |
| Elevator Foam Cores   | 65.00          |
|   |                |
| <b>Deduct</b>   | <b>4225.00</b> |



| <b>Cozy MKIV Approved Parts</b>                   |         |
|---|---------|
| <b>Fuselage Parts Component Description</b>       |         |
| Upper nose with canard cover for the MKIV         | 450.00  |
| Lower nose for the MKIV                           | 450.00  |
| Top and bottom cowling for the IO-360 MKIV        | 950.00  |
| Turtleback for the MKIV foam core / vacuum bagged | 850.00  |
| Nose cone with door for the MKIV                  | 105.00  |
| Molded Strakes shells for the MKIV                | 2395.00 |
| Molded Arm rest front and back for the MKIV       | 295.00  |
| Molded Arm rest front and back for the Cozy       | 295.00  |
| Molded Thigh Supports for the MKIV                | 280.00  |
| Molded Thigh Supports for the Cozy                | 280.00  |
| Molded Nose wheel cover for the MKIV              | 65.00   |
| Molded Map pockets for the MKIV                   | 65.00   |
| Molded Map pockets for the Cozy                   | 65.00   |
| Molded fresh air NACA inlets for the MKIV         | 65.00   |
| Molded fresh air NACA inlets for the Cozy         | 65.00   |
| Molded center section spar for the MKIV           | 2495.00 |
| Molded Main Gear fairings for the MKIV            | 65.00   |

| <b>Cozy MKIV</b>   |         |
|--|---------|
| <b>Component Description</b>                             |         |
| Main Landing Gear  | 980.00  |
| Nose Gear  | 115.00  |
| Wheel Pants Set  | 350.00  |
| Engine Cowl Set Top and Bottom                           | 795.00  |
| Precut Foam Core Wing & Winglets                         | 1630.00 |
| Precut Foam Core Canard & Elevator                       | 350.00  |
| Nose Wheel Cover   | 65.00   |
| Nose Strut Cover   | 55.00   |
| Sump Blisters [two required per aircraft]                | 55.00   |
| Arm Rest Kit, left, front, and rear prepreg / vacuum bag | 435.00  |
| Rear Keel Cover & Landing Brake Cover                    | 105.00  |
| Carburetor Air Box Kit                                   | 260.00  |
| Baggage Pod Set  | 695.00  |
| Nose Bumper Rubber                                       | 20.00   |
| Canopy (Clear)   | 350.00  |
| Canopy (Tinted)  | 425.00  |
| Side Windows (Clear)                                     | 220.00  |
| Side Windows (Tinted)                                    | 260.00  |

|   |         |
|---|---------|
| <b>Cozy MKIV / AeroCanard FG Conversion Kit</b>   |         |
| Molded Upper Nose, Canopy, Turtle-Back, Upper/Lower engine Cowling and Lower Fuselage conversion fairings | 4195.00 |

|  |                 |
|--|-----------------|
| <b>Cozy MKIV Completed Wing Prices</b>                             |                 |
| All Wings Completed With Controls Surfaces Installed and balanced  | <b>14995.00</b> |
| Main Wings (Assembled With Top And Bottom Skins And Roots Glassed) | 9515.00         |
| Molded wing spars  | 1595.00         |
| Winglets (Upper And Lower Glassed With Antennas)                   | 695.00          |
| Install Winglets   | 595.00          |
| Cut Out Install All Controls                                       | 595.00          |
| Center Section Spar  | 2495.00         |
| Center Section Spar Drilled And Bushings Installed                 | 650.00          |
| R1145MS Roncz Canard Complete With Elevator/Hardware Installed     | 3595.00         |
| R1145MS Roncz Canard Wing With Lift Tabs Installed                 | 2055.00         |
| Elevator/Hardware Installed  | 1540.00         |
| R1145MS Canard Spar  | 695.00          |
| Elevators Glassed To Torque Tubes Inserts Installed (Roncz Canard) | 595.00          |
| Elevators Glassed ( GU )   | 495.00          |
| Molded R1145MS Canard Tips   | 65.00           |
| Upper Winglets Glassed   | 520.00          |
| Lower Winglets Glassed   | 65.00           |

|  |         |
|--|---------|
| <b>Long-eze</b>  |         |
| <b>Component Description</b>                             |         |
| Fuel Strake Leading Edges, right and left                | 895.00  |
| AeroCanard Molded Strakes shells for the LongEZE         | 2195.00 |
| Main Landing Gear  | 980.00  |
| Nose Gear  | 115.00  |
| Wheel Pants Set  | 350.00  |
| Engine Cowl Set Top and Bottom                           | 795.00  |
| Precut Foam Core Wing & Winglets                         | 1630.00 |
| Precut Foam Core Canard & Elevator                       | 350.00  |
| Nose Wheel Cover   | 65.00   |
| Nose Strut Cover   | 55.00   |
| Sump Blisters [two required per aircraft]                | 55.00   |
| Arm Rest Kit, left, front, and rear prepreg / vacuum bag | 435.00  |
| Rear Keel Cover & Landing Brake Cover                    | 105.00  |
| Carburetor Air Box Kit                                   | 260.00  |
| Baggage Pod Set  | 695.00  |
| Nose Bumper Rubber                                       | 20.00   |
| Canopy (Clear)   | 300.00  |
| Canopy (Tinted)  | 425.00  |

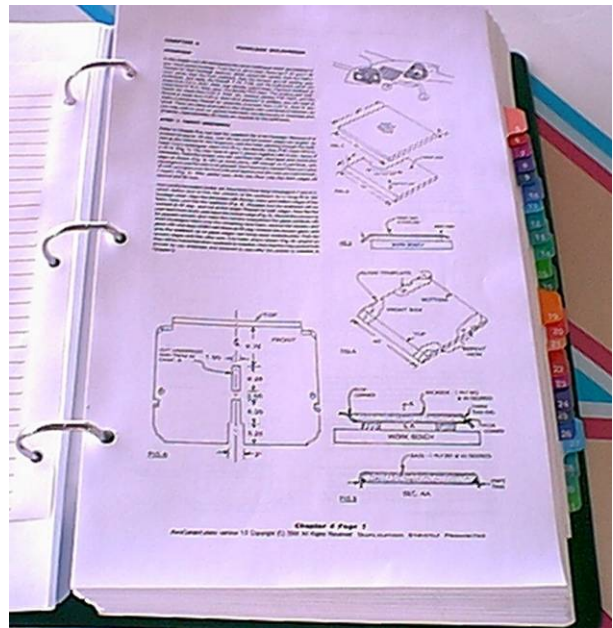
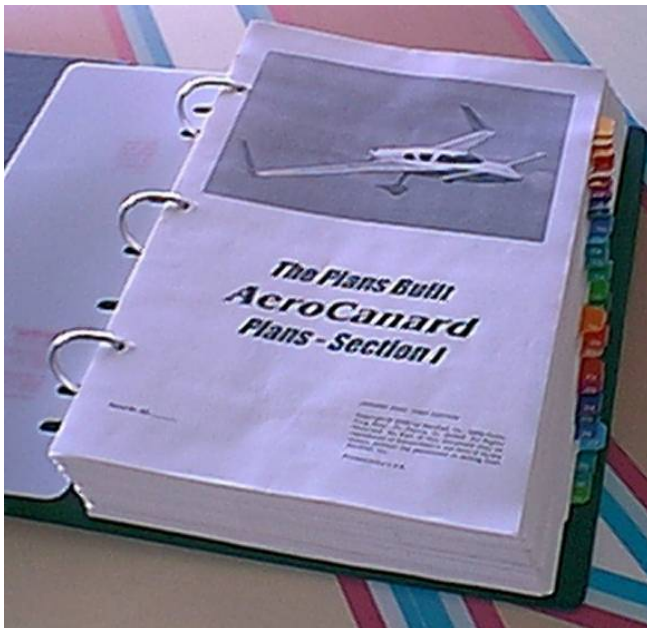
| <b>Long-eze Completed Wing Prices</b>                              |                 |
|--|-----------------|
| All Wings Completed With Controls Surfaces Installed and balanced  | <b>14995.00</b> |
| Main Wings (Assembled With Top And Bottom Skins And Roots Glassed) | 9515.00         |
| Molded wing spars  | 1595.00         |
| Winglets (Upper And Lower Glassed With Antennas)                   | 695.00          |
| Install Winglets   | 595.00          |
| Cut Out Install All Controls                                       | 595.00          |
| Center Section Spar  | 2495.00         |
| Center Section Spar Drilled And Bushings Installed                 | 650.00          |
| R1145MS Roncz Canard Complete With Elevator/Hardware Installed     | 3595.00         |
| R1145MS Roncz Canard Wing With Lift Tabs Installed                 | 2055.00         |
| Elevator/Hardware Installed  | 1540.00         |
| R1145MS Canard Spar  | 695.00          |
| Elevators Glassed To Torque Tubes Inserts Installed (Roncz Canard) | 595.00          |
| Elevators Glassed ( GU )   | 495.00          |
| Molded R1145MS Canard Tips   | 65.00           |
| Upper Winglets Glassed   | 520.00          |
| Lower Winglets Glassed   | 65.00           |

### **Info**

| <b>Component Description</b> | <b>Price</b> |
|------------------------------|--------------|
| Information pack             | Free         |

### **Plans**

| <b>Component Description</b> | <b>Price</b> |
|------------------------------|--------------|
| AeroCanard Plans (11x17)     | \$525.00*    |



| <b>AeroCanard Training</b>                          |              |
|---|--------------|
| <b>Component Description</b>                        | <b>Price</b> |
| AeroCanard Construction Training Video - 10 DVD Set | \$150.00     |

**CONTENTS:**

1. DISC 1 FUSELAGE TAPE 1
2. DISC 2 FUSELAGE TAPE 2
3. DISC 3 FUSELAGE TAPE 3\*
4. DISC 4 FUSELAGE TAPE 4
5. DISC 5 FUSELAGE TAPE 5
6. DISC 6 TOP AND WINDOWS
7. DISC 7 CANARD
8. DISC 8 ELEVATORS\*\*
9. DISC 9 WINGS
10. DISC 10 WINGLETS

\*CONTAINS COMPOSITE INSTRUCTION  
\*\*CONTAINS BONUS FLYING FOOTAGE

**AEROCAD, INC.®**  
14026 AIRPORT ROAD, BOWLING GREEN, MO

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**AeroCanard**  
CONSTRUCTION TRAINING VIDEO

**DVD**  
VIDEO



**AeroCanard** DVD VIDEO  
CONSTRUCTION TRAINING VIDEO  
with Jeff Russell  
AEROCAD, INC.®

\* All Prices and Specifications are Subject to Change.

# *AeroCanard Materials, Hardware and Suppliers*

## Disclaimer of Warranty

THESE PLANS ARE SUPPLIED "AS IS" AND WITHOUT WARRANTIES AS TO PERFORMANCE OF MERCHANTABILITY OR ANY OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED.

Because of the various capabilities of different builders, NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS OFFERED. The user assumes the entire risk of using these plans.

Preface Page 2

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AEROCANARD PLANS BUILT  
MANUFACTURING MANUAL  
SECTION 2

This manual, AEROCANARD PLANS SECTION 2, together with AEROCANARD PLANS SECTION 1, published previously under separate cover, comprise 26 chapters and 35 drawings 18" x 23" and constitute the entire manufacturing instructions for the AEROCANARD aircraft, including engine installation.

The custom prefab parts required in SECTION 2 are listed on this page, and the basic materials needed in SECTION 2 are listed as a complete kit on

Preface Page 2, and broken down by chapter on Preface Page 3 and 4.

Photographs of construction details are included at the end of some of the chapters.

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7 6 Fuselage Exterior I

8 4 Shoulder Support/Seat Belts I

9 12 Main Gear/Landing Brake I

10 8 Canard I

11 10 Elevators I

12 2 Canard Installation I

13 17 Nose/Nose Gear I

14 12 Centersection Spar I

15 2 Firewall II

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18 17 Canopy II

19 18 Wings/Ailerons/Attach I

20 6 Winglets & Rudders I

21 9 Strakes/Fuel/Baggage I

22 6 Electrical II

23 21 Engine Installation II

24 5 Armrests/Seats/Covers II

25 5 Finishing/Painting II

26 1 Upholstery II

Appendix I 25 18" x 23" Drawings I

Appendix II 10 18" x 23" Drawings II

SECTION 2

## MATERIAL LIST BY SUPPLIER

Materials and parts for the AeroCanard are available from the following suppliers:

Brock Mfg., (714) 898-4366

11852 Western Ave., Stanton, CA 90680

(2) CS-72 Brackets (Chap. 15)

(2) CZSA Stick Assembly (Chap. 16)

(4) CS-1A Inserts (Chap. 16)

(2) CS-17 Spacers (Chap. 16)

(2) MKCS- 122/124 Belhorn (1 RT, 1 LFT)

(Chap. 16)

(4) CS-127 Brackets (Chap. 16)

(2) CS- 128 Bellcrank with Bearing (Chap.

16)

(2) CS-131 Spacers (Chap. 16)

(4) CS-131 Inserts (Chap. 16)

(8) CS-201 Bushings (Chap. 16)

(2) RT-Roll Trim Bracket (1 RT, 1 LFT)

(Chap. 17)

(1) CZRTH Roll Trim Handle (Chap. 17)

(1) CZPTH Pitch Trim Handle (Chap. 17)

(2) CZLB-1 Spacer (Chap. 17)

(2) CZLB-6 Spacer (Chap. 17)

(1) CZLB-10 Spring Bracket (Chap. 17)

(1) LB-11 Bracket (Chap. 17)

(1) CZLB- 13 Landing Brake Handle Ass.

(Chap. 17)



(1) CZLB-15 Landing Brake Actuator Ass. (Chap. 17)  
 (1) CZLB-21 Landing Brake Arm (Chap. 17)  
 (1) VECG Throttle Quadrant Ass. (Chap. 17)  
 Note: If using the Ellison TBI, you can omit the throttle element from this quadrant  
 (3) LL-1 Knobs (Chap. 17)  
 (1) CI-L Handle (Chap. 18)  
 (2) C2-L Arms (Chap. 18)  
 (1) C3 Lug (Chap. 18)  
 (1) C4 Block (Chap. 18)  
 (1) C4-A Block (Chap. 18)  
 (1) SC-1 Safety Catch (Chap. 18)  
 (1) C21 Handle (Chap. 18)  
 (2) CS- 13 Spacers (Chap. 18)  
 (1) AeroCanard Dynafocal Engine Mount (Chap. 23)  
 AeroCad, Inc. (573) 324-3300  
 14026 Airport Rd., Bowling Green, Mo. 63334  
 (1) Turtleback (optional) (Chap. 18)  
 (1) Engine Cowlings (Chap. 23)  
 (1) Carburetor Filter Box (optional) (Chap. 23)  
 (1) Set Armrests, Covers (optional) (Chap. 24)  
 Airplane Plastics Co. (513) 864-5607  
 8300 Dayton Rd., Fairborn, OH 45324  
 (1) Canopy (Chap. 18)  
 (1) Set of Side Windows (Chap. 18)  
 B & C Specialty Products (316) 283-8000  
 (1) Sealed, High Cranking Power Battery (Chap. 22)  
 (1) Light-Weight Alternator (Chap. 23)  
 (1) Linear Voltage Regulator (Chap. 23)  
 (1) Light-Weight Starter (Chap. 23)  
 Service Plus Distributors (215) 639-7810  
 977A Bristol Pike, Bensalem, PA 19020  
 (1) Gas Spring with Mounting Hardware (Chap. 18)  
 Ellison Fluid Systems (206) 271-3220  
 350 Airport Way, Renton, WA 98055  
 (1) Ellison Throttle Body Injector (Chap. 23)  
 Cable Craft (206) 475-1080  
 PO Box 11372, Tacoma WA 98411  
 (1) 183-VGG-3-109 Throttle Cable (Chap. 23)  
 Custom Aircraft Supply (619) 276-6954

1318 Gertrude St., San Diego, CA 92110  
 (1) Set SS Exhaust Pipes w Heat Muff (Chap, 23)  
 Aircraft Spruce East (800) 831-2949  
 Box 909, Griffin GA 30224  
 (1) Upholstery Kit (specify basic or complete) (Chap. 26)  
 B & T Props (503) 942-7068  
 75872 Mosby Creek Rd., Cottage Grove OR 97427  
 Tod's Props (206) 853-8947  
 Box 824, Concrete, WA 98237  
 Bernard Warnke (602) 682-2550  
 11700 Avra Valley Rd., Marana, AZ 85653  
 (1) Propellor (Chap. 23)  
 Preface Page 3  
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**SECTION 2**  
**BASIC MATERIALS KIT**  
 The basic materials needed to construct the AeroCanard are available from any of the following two Authorized Suppliers, in alphabetical order:  
 Aircraft Spruce & Spec. East & West (800) 824-1930  
 Box 909. Griffan, GA 30224 (East)  
 Box 42, Fullerton, CA 92532 (West)  
 Wicks Aircraft (800) 221-9425  
 410 Pine St., Highland IL 62249  
**GLASS:**  
 (30) yds. BID  
 (20) yds. UNI  
**EPOXY:**  
 (3) Gal.  
**BOLTS:**  
 (1) AN3-4 Bolts  
 (6) AN3-4A Bolts  
 (6) AN3-5A Bolts  
 (1) AN3-6 Bolts  
 (13) AN3-6A Bolts  
 (30) AN3-7A Bolts  
 (16) AN3-11 A Bolts  
 (1) AN3-12 Bolts  
 (5) AN3-13A Bolts  
 (1) AN3-115 Bolts  
 (2) AN3-16A Bolts  
 (8) AN4-10A Bolts  
 (3) AN4-11 A Bolts

- (2) AN4-14 Bolts
- (1) AN4-21 A Bolts
- (1) AN4-31A Bolts
- (1) AN4-33A Bolts
- (4) AN6-34A Bolts
- (4) AN7-35A Bolts

**SCREWS:**

- (4) AN525-10R5 Screws
- (7) AN525-1OR 10 Screws
- (8) AN525-1OR 12 Screws
- (1) AN525-1OR 16 Screws
- (2) AN525-1OR20 Screws
- (1) AN525-1OR24 Screws
- (4) AN526-632R5 Screws
- (30) AN526-63286 Screws
- (1) AN526-632R8 Screws
- (5) MS24694-S48 Screws
- (2) MS24694-S49 Screws
- (10) MS24694-S50 Screws
- (65) MS24694-S51 Screws
- (10) MS24694-S52 Screws
- (3) MS24694-S66 Screws
- (2) MS24694-S70 Screws
- (5) MS24694-S74 Screws
- (4) MS35206-231 Screws
- (4) MS35265-79 Screws
- (16) MS35265-80 Screws

**WASHERS:**

- (200) AN9604L Washers
- (116) AN960-10 Washers
- (35) AN960-1OL Washers
- (1) AN960-416L Washers
- (17) AN960-416 Washers
- (4) AN960-616 Washers
- (4) AN960-716 Washers
- (4) AN960-1016 Washers
- (22) AN970-3 Washers
- (13) AN970-4 Washers
- (4) AN970-6 Washers
- (4) AN970-7 Washers
- (30) MS35333-37 Lock Washers
- (12) MS35333-40 Lock Washers
- (8) MS35333-41 Lock Washers
- (60) A-3235-028-24A Countersunk
- (4) PIN Phenolic Washers

**NUTS:**

- (30) MS20364-632 Nuts
- (4) MS21042-06 Nuts
- (160) MS21042-3 Nuts

- (10) MS21042-4 Nuts
- (4) NAS1291-7 Nuts
- (10) AN315-3 Nuts
- (3) AN310-3 Nuts
- (2) AN3104 Nuts
- (4) AN316-4 Nuts
- (2) AN345-10 Nuts
- (4) AN363-624 Nuts

**NUTPLATES:**

- (10) MS21047-3 Nutplates
- (80) MS21069-L3 Nutplates

**RIVETS:**

- (20) MS20470AD3-4 Rivets
- (5) MS20470AD3-7 Rivets
- (40) MS20470AD4-10 Rivets
- (100) Avex 1604-0412 Flush Pop Rivets
- (200) Avex 1601-0414 Round Pop Rivets

**FITTINGS:**

- (2) AN816-4 Nipple
- (1) AN910-1D Coupling
- (1) AN912-1 Bushing
- (2) MS20822-8D 90 deg. Elbow
- (2) MS20823-8D 45 deg. Elbow
- (2) AC#6470069 Fuel Pump Adapter (if needed)
- (2) pcs. (specify length) 666-8 Aeroquip hose w AE21496-H fitting
- (1) pc. (specify length) 666-4 Aeroquip hose w AE21496-D fitting

**FOAM:**

- (1) pc. 48 x 96 x 1/4" 4.5 lb. Last-A-Foam
- (4) pcs. 32 x 48 x 3/8" H45 PVC
- (1) pc. 24 x 48 x 1" Urethane
- (1) pc. 24 x 96 x 2" Urethane
- (1) M-26 Urethane Pourfoam Kit
- (4) pc. 24" x 48" x 1/4" 4.5 lb Last-A-Foam

**METAL:**

- (1) pc. 48 x 48 x .025 6061-T6 Alum.
- (1) pc. 18 x 24 x .032 2024-T3 Alum.
- (1) pc. 18 x 24 x .063 2024-T3 Alum.
- (12) in. 1 x 1 x .125 2024-T3 Alum. Angle
- (48) in. 5/16" O.D. x .049w 2024-T3 Tubing
- (48) in. 1/2" O.D. x .035w 2024-T3 Tubing
- (60) in. 3/4" O.D. x .058w 6061-T6 Tubing
- (48) in. 5/8" O.D. x .049w 4130 Steel Tubing
- (6) in. 1/4" O.D. 2024-T3 Alum. Rod
- (4) in. 1/4" x 20 Threaded Steel Rod
- (1) pc. 1/2" x .035W x 7ft. 4130 steel tubing

(1) pc. 3/8" O.D. x.065 W x 4" 4130 Steel Tubing

**MISC:**

(4) AN210-2A Pulleys  
(20) AN 100-3 Thimbles  
(20) 18-1-C Nicopress Sleeves  
(4) MS20392-2C9 Clevis Pins  
(1) MS20392-2C1 1 Clevis Pin  
(4) MS20392-2C1 8 Clevis Pins  
(7) AN416-1 Safety Pins  
(5) MS24665-132 Cotter Pins  
(4) MS24665-134 Cotter Pins  
(1) MS24665-283 Cotter Pins  
(2) AN 111-4 Cable Bushings  
(2) 1/4" Flanged Bronze Bushings  
(1) pt. Spraylat  
(1) gal. Glass Microspheres  
(1) gal. Flox  
(3) in. MS20257-P2 Hinge  
(3) in. MS20001-P3 Hinge  
(36) in. MS20001-P5 Hinge  
(36) in. MS20001-P6 Hinge  
(4) Lyc. #77611 Blow-Proof Exh. Gaskets  
(8) 1410 5/16"-I 8 Lyc. Exh. Man. Nuts  
(18) in. 3/4" I.D. x.1 25w Tygon Tubing  
(24) TY-525M Nylon Tie-Wraps  
(24) TY-528M Nylon Tie-Wraps  
(1) Tube High Temp. RTV Silicone  
(48) in. 2.5" I.D. Scat Aeroduct  
(24) in. 1.5" I.D. Scat Aeroduct  
(4) SC-124 Stainless Worm Clamps  
(4) WC-136 Stainless Worm Clamps  
(1) Coil MS20995C-041 SS Safety Wire  
(1) 18 in. long 350 O.D. x .05 wire Tension Spring  
(2) 12.5 in. long .375 O.D. x.06 wire Tension Springs  
(2) .5 in. long .350 O.D. x.06 wire Compression Springs  
(4) C-161 Century Spring Corp. Springs  
(1) H-5000-2 Hartwell Rush Latch (optional)  
(1) pc. 4 x 6 x.25" Phenolic  
(2) MS20271 -B-10 Universals  
(10) MM-3 Rod Ends  
(4) MM-4 Rod Ends  
(65) ft. 7 x 7 x 1/16" SS Cable  
(22) ft. 3/16" O.D. x.025w Nylaflo Tubing  
(2) FB-1013-8 Boston Bronze Ranged Bearings

(1) 10599 Stewart Warner Oil Cooler or (larger)

(1) 8 In. Prop Hub Extension (specify diameter)  
(1) Crush Plate (specify diameter)  
(1) Spinner Assembly w Airflow Guide  
(1) AN665-21 R Tie Rod Terminal  
(2) MS21919-DG-10 Adel Clamps  
(12) in. CCM-36 Baffle Fabric 40" wide  
(1) set EM 100-006 Lord Mount Bushings w Spacers  
(1) A730-RED-60 Cabin Heat Push-Pull Cable

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**SECTION 2**

**MATERIAL LIST BY CHAPTER**

Materials listed here are the same as those listed in the SECTION 2 MATERIALS KIT. They do not include tools, fillers, or jiggling materials. They are arranged here by chapter, rather than by distributor. You should find this list handy to assure that you have all the appropriate materials and parts before starting a major job, and will help you to keep track of hardware.

**Chapters 3 through 15:** (See Section 1)

**Chapter 15: Firewall and Accessories**

Note: The fuel line fittings needed for the firewall layout were listed in Section **1, Chapter 21**, except we recommend that you substitute Aeroquip 666-6 hose with AE21496-G fittings in place of the 303-6 hose and 491-6 fittings.

Prefab: (2) CS-72 Brackets

Hardware: (2) AN3-6A Bolts

(2) AN3-7A Bolts

(10) AN960-10 Washers

(18) MS21042-3 Nuts

(4) MS24665-135 (AN380-2-3) Cotter Pins

Foam: (1) pc. 12 x 24 x 1/4' 4.5 b. Last-A-Foam

Metal: (1) Sheet 48 x 48 x .013" 2024-T3 Alum.

(1) pc. 5x10 x .063" 2024-T3 Alum.

Misc.: (4) AN210-2A Pulleys

(1) pc. 24" x 5 ft. x 1/8" 970J Fiberfrax

(1) pt. QF-180 High temperature white glue  
(for Fiberfrax)

### **Chapter 16: Control System**

Prefab: (2) CZSA Stick Assemblies  
(10) CS-1 Inserts  
(4) CS- 1 A Inserts  
(2) CS-17 Spacers  
(2) MKCS-122/124 Belhorn (11 RT, 1 ILF71  
(4) CS- 127 Brackets  
(2) CS-128 Bellcrank with Bearing  
(2) CS-131 Spacers  
(4) CS-181 Inserts  
(8) CS-201 Bushings  
Hardware: (6) AN3-5A Bolts  
(2) AN3-6A Bolts  
(18) AN3-7A Bolts  
(16) AN3-11 A Bolts  
(2) AN3-13A Bolts  
(2) AN3-16A Bolts  
(2) AN4-10A Bolts  
(2) AN4-11 A Bolts  
(2) AN4-14 Bolts  
(90) AN960-10 Washers  
(8) AN960-416 Washers  
(4) AN960-1016 Washers  
(12) AN970-3 Washers  
(2) AN970-4 Washers  
(60) MS21042-3 Nuts  
(4) MS21042-4 Nuts  
(10) AN315-3 Nuts  
(2) AN310-4 Nuts  
(4) AN316-4 Nuts  
(12) AN 100-3 Thimbles  
(40) MS2947OAD4-10 Rivets  
(12) Avex 1604-0412 Flush Pop Rivets  
(8) Avex 1601-0414 Pop Rivets  
(12) 18-1-C Nicopress Sleeves  
(4) MS20392-2C9 (AN393-9) Clevis Pins  
(4) MS20392-2C18 (AN393-18) Clevis Pins  
(7) AN416-1 Safety Pins  
(2) MS24665-132 (AN380-2-2) Cotter Pins  
(2) MS202711-13-10 Universal joint  
(10) MM-3 Rod Ends  
(4) MM-4 Rod Ends  
(2) FB- 10 13-8 Bronze Ranged Boston  
Bearings  
Glass: (2) Yds. BID  
Epoxy: (.1) Gal.  
Foam: None

Metal: (1) pc. 3 x 5 x -063\* 2024-T3 Alum.  
(1) PC. 1 1/2"O.D. x.035w x 4 ft. 2024-T3  
Alum. tube  
(3) pcs. 3/4" O.D. x.058w x 5 ft. 6061-T6  
Alum tube  
(1) pc. 1/2" O.D. x.035W x 7 ft. 4130 Stl. tube  
(1) pc. 3/8' O.D. x.065W x 4"4130 Stl. tube  
(1) PC. 5/8" O.D. x .049w x 4ft. 4130 Stl.  
tube  
Wood: Scraps  
1/4" Birch Plywood from Firewall  
Misc: (1) pc. 1/4" thick x 3' x 6" Phenolic  
(1) pc. 1/16' x 60 ft. 7 x 7 SS Cable  
(1) pc. 3/16" O.D. x.025w x 20 ft. Nylaflo  
tubing

### **Chapter 17: Pitch & Roll Trim, Ldg Brake & Center Console**

Prefab: (2) RT-2 Roll Trim Bracket (1RT,  
1LFT)  
(2) CZRTH Roll Trim Handle  
(1) CZPTH Pitch Trim Handle  
(1) CZLB-1 Spacer  
(1) CZLB-6 Spacer  
(1) CZLB-10 Spring Bracket  
(1) LB11-Bracket  
(1) CZLB-13 Landing brake Arm  
(1) CZLB-15 Landing brake Arm  
(1) CZLB-21 Landing brake Arm  
(1) VECG Throttle Quadrant Assembly Note:  
If using the  
Ellison throttle body, you can omit the throttle  
element from this quadrant.  
(3) LL-1 Knobs  
Hardware: (1) AN3-6 Bolt  
(1) AN3-6A Bolt  
(1) AN3-7A Bolt  
(1) AN3-11 A Bolt  
(1) AN3-12 Bolt  
(1) AN3-15 Bolt  
(1) AN4-21 A Bolt  
(1) AN4-31 A Bolt  
(1) AN4-33A Bolt  
(5) MS24694-S48 Screws  
(2) AN525-10R10 Screws  
(16) AN 960-10 Washers  
(1) AN960-416L Washers  
(7) AN960-416 Washers  
(2) AN970-3 Washers  
(1) AN970-4 Washers

(4) PW Phenolic Washers  
 (8) MS21042-3 Nuts  
 (5) MS21042-4 Nuts  
 (3) AN310-3 Nuts  
 (3) MS24665-132 (AN380-2-2) Cotter Pins  
 (8) AN 100-3 Thimbles  
 (5) 1 B-1-C Nicopress Sleeves  
 Glass: (1) Yd. BID  
 (. 1) Yd. UND  
 Epoxy: (.2) Gal.  
 Foam: (1) 12 x 24 x 1/4 in. 4.5 lb. Last-A-Foam  
 Metal: None  
 Wood: Scraps 1/4" Birch Plywood from firewall  
 Misc: (5) ft. of 1/16" 7 x 7 SS Cable  
 (2) ft. of 3/16" O.D. x.025w Nylaflo Tubing  
 (5) ft. of .041 dia. Safety Wire  
 (1) 18" x .05 wire x.350 dia. Tension Spring  
 (2) pcs. 12.5" x .06 wire x.375 dia Tension Spring  
 (2) pcs. .5" x .06 wire x .350 dia Compression Spring  
**Chapter 18: Canopy**  
 Prefab: (1) Plexiglass Canopy  
 (1) Side Window Set  
 (1) C1-L Handle  
 (2) C2-L Arms  
 (1) C3 Lug  
 (1) C4 Block  
 (1) C4-A Block  
 (1) SC1 Safety Catch  
 (1) C21 Handle  
 (2) CS13 Spacers  
 Hardware: (2) AN3-4A Bolts  
 (2) AN3-6A Bolts  
 (3) AN3-7A Bolts  
 (3) AN3-13A Bolts  
 (5) MS24694-S51 Screws  
 (10) MS24694-S52 Screws  
 (3) MS24694-S66 Screws  
 (2) MS24694-S70 Screws  
 (5) MS24694-S74 Screws  
 (5) AN525-10R10 Screws  
 (8) AN525-10R12 Screws  
 (1) AN525-10R16 Screws  
 (2) AN525-10R20 Screws  
 (1) AN525-10R24 Screws  
 (32) AN960-10L Washers

(2) AN960-416 Washers  
 (6) AN970-3 Washers  
 (50) MS21042-3 Nuts  
 (10) MS21047-3 Nutplates  
 (20) MS20426AD3-4 Rivets  
 (5) MS20426AD3-7 Rivets  
 (40) Avex 1604-0412 Flush Pop Rivets  
 (3) in. MS20257-P2 Hinge  
 (36) in. MS20001-P5 Hinge  
 (20) in. MS20001-P6 Hinge  
 (1) H-5000-2 Hartwell Rush Latch (optional)  
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 (1) pc. 2 x 10 x .25' 2024-T3 Alum. Bar  
 (42) in. 5/16 O.D. x.049w 2024-T3 Alum. Tubing  
 (4) in. 1/4 x 20 Threaded Steel Rod  
 Misc: (1) pt. Spraylat Protective Coating  
 (1) Gal. Glass Bubbles  
 (1) Gal. Flox  
 (2) SW9977005-1 Whisperflo Vents  
 (1) SPD-5150-40 Gas Spring  
 (1) SPD-1005 Ball Stud  
 (1) SPD-1010 Reverse Elbow Bracket  
**Chapters 19 through 21: (See Section 1)**  
**Chapter 22: Electrical**  
 Note: Due to the wide variety of options, electrical materials and components are not included in the Section 2 Material Kit. The following items, however, are offered as a suggestion. Order only approved aircraft grade materials to meet your individual requirements.  
 (1) 25 AH Low Resistance, Sealed Battery (B & C Spec.)  
 (1) 35 Amp. Light-Weight Alternator (B & C Specialty)  
 (1) Linear Voltage Regulator (B & C Specialty)  
 (1) Light-Weight Starter (B & C Specialty)  
 (1) Starter Solenoid  
 (1) Battery Solenoid  
 (1) Wheien A413A-HDS-14 Power Pack  
 (1) Set A600 PG/R-14 Position & Strobe Fixtures  
 (14) Klixon Circuit Breakers, Assorted Sizes  
 (14) DC Toggle Switches, Assorted Sizes  
 (1) Keyed Ignition Switch



- (1) Push Button Switch
- (3) Lever Micro Switches
- (1) Relay Calectro C1 -974 or equivalent
- (1) Warning Horn
- (1) Warning Light
- (10) ft. #4 Welding Cable
- (15) ft. #10 AWG Shielded MIL-C-7078-5
- (30) ft. #10 AVVG Unshielded MIL-W-5086A, Type 11
- (100) ft. #18 AWIG Unshielded MIL-W-5086A, Type 11
- (100) ft. #22 AWG Unshielded MIL-W-5086A, Type 11

Assorted ring terminals, heat shrink tubing, and tie wraps.

### **Chapter 23: Engine and Propeller Installation**

- Prefab: (1) Upper and Lower Cowling  
 (1) AeroCanard Dynafocal Engine Mount  
 (1) AeroCanard Exhaust System with Heat Muff

- Hardware: (1) AN3-4 Bolt  
 (4) AN3-4A Botts  
 (6) AN3-6A Botts  
 (6) AN3-7A Botts  
 (6) AN3-10A Botts  
 (4) AN6-34A Botts  
 (4) AN7-35A Botts  
 (4) MS35206-231 Screws  
 (4) MS35265-79 Screws  
 (16) MS35265-80 Screws  
 (12) MS24694-S49 Screws  
 (10) MS24694-S50 Screws  
 (60) MS24694-S51 Screws  
 (4) AN525-10R5 Screws  
 (4) AN526-632R5 Screws  
 (30) AN526-632R6 Screws  
 (1) AN526-632R8 Screw  
 (4) MS21042-06 Nuts  
 (22) MS21042-3 Nuts  
 (4) NAS 1291-7 Nuts  
 (30) MS20364-632 Nuts  
 (2) AN345-10 Nuts  
 (4) AN363-624 Nuts  
 (8) 1410 5/16-18 Lyc. Exhaust Manifold Nuts  
 (80) MS21069-L3 Nutplates  
 (60) A3235-028-24A Couritersink Washers  
 (200) AN960-4L Flat Washers  
 (4) AN960-616 Washers

- (4) AN960-716 Washers
  - (2) AN970-3 Washers
  - (4) AN970-6 Washers
  - (4) AN970-7 Washers
  - (30) MS35333-37 Lock Washers
  - (12) MS35333-40 Lock Washers
  - (8) MS35333-41 Lock Washers
  - (2) MS35489-12 Grommets
- Fittings: Fuel line fittings were listed in

### **Chapter 21.**

- (2) AN816-4 Nipples
- (1) AN910-1D Coupling
- (1) AN912-1 Bushing
- (2) MS20822-8D 90 deg. elbow
- (2) MS20823-8D 45 deg. elbow
- (2) AC-6470069 Fuel Pump Adapters
- (2) pcs. 666-8 Aeroquip w AE21496-H Fittings
- (1) pc. 666-4 Aeroquip w AE21496-D Fittings
- Glass: (3) yds. BID
- Epoxy: (.2) Gal.
- Foam: (1) pc. 24 x 24 x 3/8" H45 PVC
- (1) pc. 24 x 24 x 1 " Urethane
- Metal: (1) pc. 48 x 48 x .025" 6061 -T6 Alum. sheet
- (1) pc. 12 x 24 x .032" 2024-T3 Alum. sheet
- (1) pc. 12 x 24 x .063" 2024-T3 Alum. sheet
- (1) pc. 6 x 2 x 1/8" 2024-T3 Alum. Bar
- (1) pc. 4 x 2 x 1/4" 2024-T3 Alum. Bar
- (3) in. 1 x 1 x 1/8" 2024-T3 Extruded Alum. Angle
- (6) in. 5/16" O.D. x.049w 2024-T3 Alum. Tubing
- (6) in. 1/4" O.D. 2024-T3 Alum. Rod
- Misc: (1) Engine Mount
- (1) Set Dynafocal 100-006 Lord Mount Bushings
- (1) 8" Prop Hub Extension
- (1) Propeller Crush Plate
- (1) Propeller with bolts
- (1) Spinner Assembly w Airflow Guide
- (1) Stewart Warner 10599 Oil Cooler or larger
- (1) Ellison 4-5 Throttle Body Injector
- (1) Earl's in-line Fuel Filter
- (1) Fram CA3647 Filter Element
- (1) A730-RED-60 Cabin Heat Push-Pull Cable

(1) 183-VGG-3-109 Cable Craft Throttle Cable  
(4) Lyc#7761 1 Blow Proof Exh. Gaskets  
(18) in 3/4" ID x 1/8" w Tygon Tubing  
(24) TY-525M Nylon Tyraps 6 in. long  
(24) TY-528M Nylon Tyraps 12 in. long  
(1) Tube High Temp. RTV silicone  
(4) WC-124 Worm Clamps  
(4) WC-136 Worm Clamps  
(2) 1/4" I.D. Ranged Bronze Bushings  
(4) ft. 2.5" ID Seat Aeroduct  
(2) ft. 1.5" ID Scat Aeroduct  
(4) Century C-161 Springs  
(1) ft. 40" wide CCM36 Baffle Fabric  
(1) MS20995C-041 SS Safety Wire  
Chapter 24: Covers, Fairings, & Consoles  
Prefab: All Covers and Fairings are available  
prefab from AeroCad.  
Hardware: (14) Avex 1601-0414 Pop Rivets  
(12) in. MS20001 -P6 Hinge  
Glass: (8) yds. BID  
Epoxy: (1) gal.  
Foam: (3) sheets 34 x 37 x 3/8" H45 PVC  
(1) pc. 24 x 24 x 2" Urethane  
(1) M-26 2 qt. Kit Urethane Pourfoam  
Chapter 25: Finishing  
Epoxy: (1) Gougeon West System 105 epoxy  
with  
206 catalyst and dispensers  
Fillers: Glass Microspheres as required  
(2) Gal. High-build Epoxy or U-1761 Sterling  
Primer  
Sandpaper: (100) sheets 36 grit  
(100) sheets 80 grit  
(100) sheets 220 grit wet/dry  
(50) sheets 320 grit wet/dry  
(30) sheets 400 grit wet/dry  
Finish Primer: Same as above  
Finish Paint: White PPG (Acrylic Urethane)  
Note: These items (except for West System  
& Fillers) are available locally  
and not supplied with the materials kit.  
Chapter 26. Upholstery  
Note: The basic front and back seat  
cushions, or complete upholstery kits,  
are available from Aircraft Spruce East with  
foam, fabric, and color or your  
choice, or you can have the cushions made  
locally according to the dimensioned

drawings on Page 26-1.

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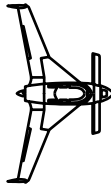
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# AEROCAD, INC. ®

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## RELEASE, EXPRESS ASSUMPTION OF RISK, AND INDEMNITY AGREEMENT

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1. Purchaser must understand, agree with, sign, and have notarized or witnessed, the **RELEASE, ASSUMPTION OF RISK, and INDEMNITY** clauses accompanying this contract.

2. The price for each sub-assembly will be as listed in 2.a, F.O.B. AeroCad, Inc., Bowling Green, MO. Each sub-assembly is payable upon completion of that sub-assembly.

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Undersigned purchaser, for himself, his heirs, executors, administrators and assigns, hereby releases, waives, discharges and covenants not to sue AeroCad, Inc., its assigns, officers, directors, employees, designers and associates, for any liability, loss or damage, and any claims or demands therefore on account of personal injury, death or property damage arising from the use of the experimental aircraft, whether in construction or operation of the aircraft, and whether caused solely by the negligence of AeroCad, Inc., in whole or in part, its agents, etc. or employees, or otherwise. The purchaser further understands that AeroCad, Inc. carries NO liability insurance.

#### b) EXPRESS ASSUMPTION OF RISK

The purchaser specifically acknowledges, understands and agrees that AeroCad, Inc., accepts no liability whatsoever for the airworthiness or structural integrity of the experimental amateur built aircraft constructed by the purchaser or constructed in part or in total by AeroCad, Inc. or someone else for the purchaser, as AeroCad, Inc. has no control over the actual materials, processes or workmanship used by the builder.

**WARNING:** The purchaser should understand that the aircraft is an Experimental category amateur built aircraft which requires his utmost attention to detail in construction and operation and failure to devote such attention may result in his death or serious injury. The purchaser expressly assumes full risk and responsibility for any damage resulting from construction or operation of the aircraft.

#### c) INDEMNITY AGREEMENT

The purchaser further agrees to hold harmless and indemnify AeroCad, Inc., its assigns, officers, directors, employees, designers and associates, from suits, actions, damages, liability and expense in connection with loss of life, bodily or personal injury or property damage arising from the construction or operation of the aircraft, whether caused solely or in part by the negligence of AeroCad, Inc., its agents or employees. Purchaser shall also pay all costs, expenses and reasonable attorney's fees that may be incurred or paid by AeroCad in enforcing the terms of this indemnity agreement.

Print Name: \_\_\_\_\_

Address: \_\_\_\_\_

phone# \_\_\_\_\_

City, State, \_\_\_\_\_

Zip: \_\_\_\_\_

Signature: \_\_\_\_\_

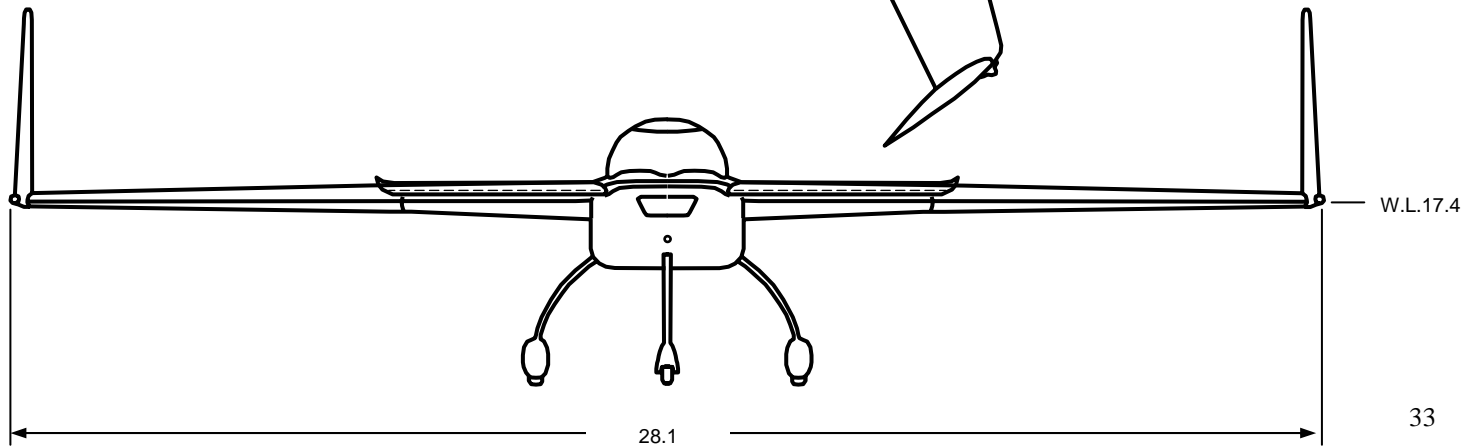
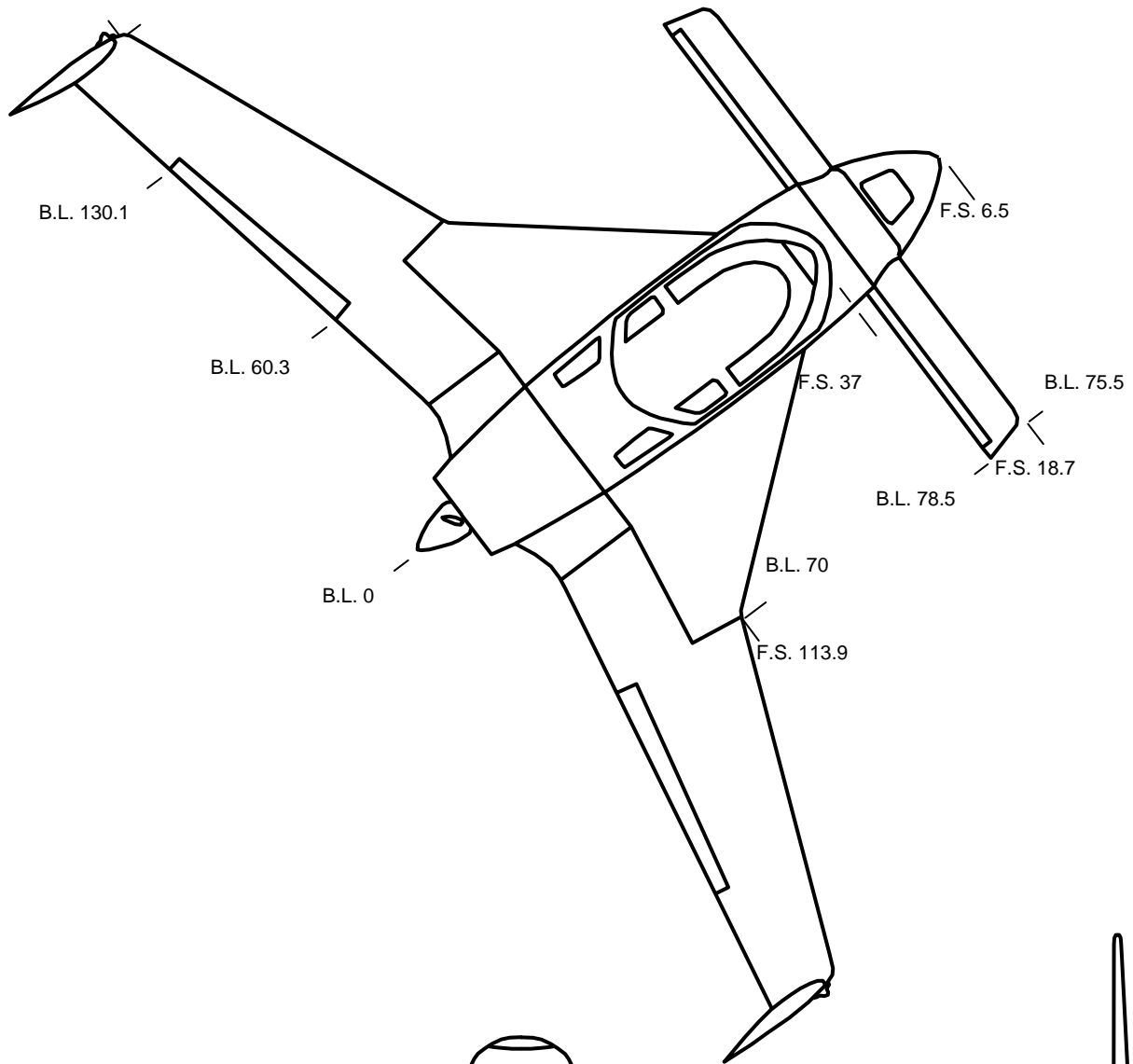
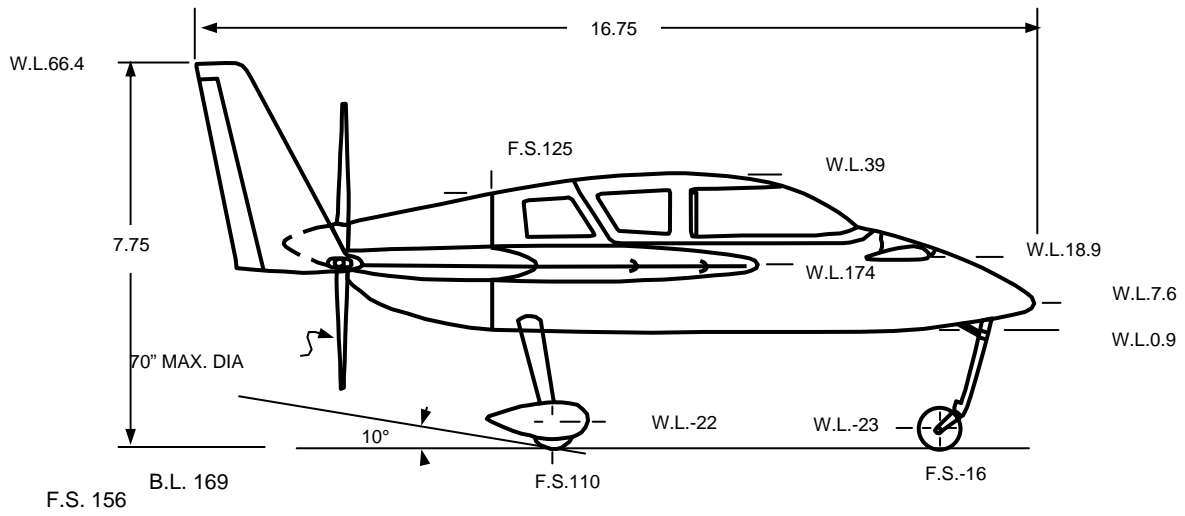
#### NOTARY OR WITNESS:

Print Name: \_\_\_\_\_

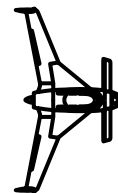
Signature: \_\_\_\_\_

My Commission Expires: \_\_\_\_\_





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