

Read This First

Even if you're a very experienced builder, read this much at least!

Fuselage

The fuse formers are **not square** to the building board – use the supplied jig.

Tailplane (stab) incidence

The prototype model ended up with 1/8" or so downward deflection on the elevator for straight and level flight. This means you could increase the stab incidence a little, say 1/16" to 3/32" as measured at the leading edge.

Stab Support Strut

Don't try to do without this! It is functional.

Weighted Cowl Ring

These can be weighted to order. A simple resin ring without lead weighs about 3 oz. The heaviest possible is about 8-9 oz.

Nacelle Parts

The fiberglass nacelle is made from light fiberglass cloth and may seem a bit flimsy to you. This is for some good reasons, though. A thicker part would be a lot heavier for one. Also, when you cut out the windows, you don't want the framing to be very thick, as it will not look as scale. If you want a thicker part, you can add another layer of cloth and resin yourself, or let us know and we can make one for you. The belly pan area is laid up from two layers of cloth for strength. This area helps stiffen the wing structure if the wing skins are cut away for a scale interior.

Vacuformed Nacelle Glazing

The area around the dorsal gun blister has compound curves. A vacuformed piece is therefore required for this area and is supplied with the kit. The remainder of the nacelle glazing can be made from sheet plastic, this was done on the prototype model.

Reinforcement

From flight testing experience, we recommend the following reinforcement. If the weighted cowl ring is used, the cowl framework should be reinforced with glass cloth or carbon fiber and resin in the area near where it attaches to the firewall. Also, the right outer wing panel should get a band of glass cloth (4-5oz) to reinforce the dihedral break on top of the wing at rib W23. With the ballast in the wingtip, a hard landing can cause this seam to crack.

Center of Gravity

The fore/aft CG shown on the plans should be considered an aft limit. It is advisable to start 1/4" or so forward of the CG shown. The lateral CG is in the geometric center of the wing. The lateral balance is critical in this model. **Important:** read the advisories in the building guide on balance.

Maneuvers

Vertical stalls have been executed with no problems. So called "provoked" spins have not been attempted and are not recommended.

Gyro (Rudder)

A gyro was used on the rudder of the prototype model. This is not absolutely necessary, but experience with it has shown that it makes ground handling a lot easier. Once in the air, the model is very stable in yaw and does not need the gyro.