EVF Powered Sabre/Fury ARF
Fuselage Internal Cooling

The Sabre/Fury ARF's come with pre painted gun ports

For EVF operations at 80° F or above, it is best to add this feature to your Sabre/Fury ARF. The added airflow through the fuselage will help cool the LiPo batteries and the associated wires and power plug.

Note: The F-86 has (3) 50 caliber guns per side, the Navy FJ Fury has (2) larger (20mm) guns per side, but to model the 2 larger Fury guns requires serious craftsmanship and paintwork. Keep in mind, that these are sport scale ARF's and the slightly non-scale Sabre guns should suffice. See photos later in this section.

There are 2 ways to utilize the gun ports for internal cooling air.

Method 1 (Preferred) – simply make the cut outs in the fuse sides per molded panel lines and back them up with the offset, flat black painted baffles.

Method 2 – is intended for the more intense scale modeler. This entails making the cut outs and then fitting tubing to the inside of the fuse. See the following pages.

Method 1 (Preferred)

□ Use a Perm Grit tapered cone # RF-1F to make initial openings then fine-tune with Perm Grit files. Treat the cut edges with a black marking pen.

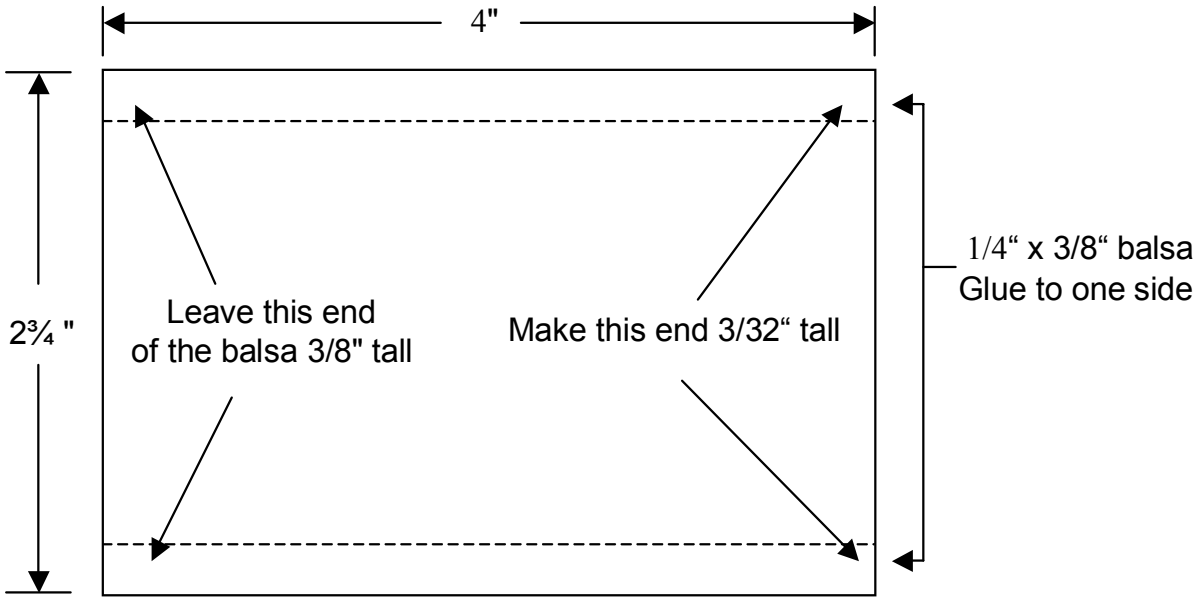
□ Glue (2) 1/4"x3/8"x4" balsa strips to one side of the black plastic or .010 polyply then block sand (belt sand) a taper into both strips such that the forward ends of the balsa strips are 3/32" tall and the aft ends remain 3/8" tall. See the following pages.

□ Trial fit to the inside of the fuse. Adjust as necessary for left and right fit to fuse inside curvature. You can use spray can flat black to complete the effect.

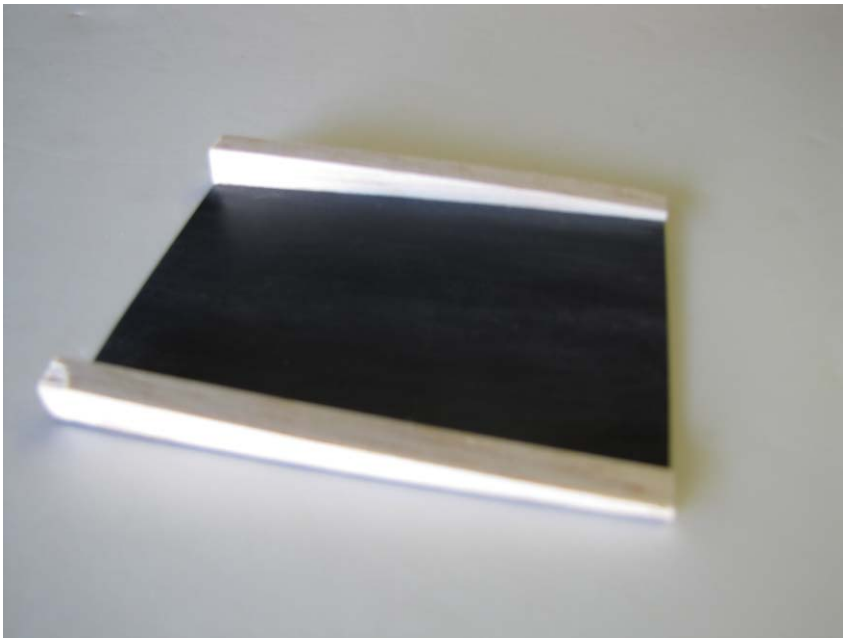
□ Use quick setting epoxy on the balsa rails to adhere to the inside of the fuse skins. Hold in a pre-marked position for cure.

Full Size Pattern

.040 black plastic sheet or .020 polyply



FORWARD



Method 2 (Sabre guns)

□ Make cutouts in the fuselage using a 3/32" carbide cutter staying inside the oval pattern lines. Use a large, round Perma-Grit file to final shape the openings.

□ Cut (6) 3-1/4" long pieces of the 5/16" aluminum tubing. Bevel one end of each on a belt sander.

□ Custom fit each tube into the fuselage opening and CA in place, add epoxy fillet inside fuselage to each barrel to strengthen joint.

□ You can blacken the inside of each tube with flat black model paint on a Q-Tip.

FURY Guns:

Since we had to fix the nose on the prototype Fury, we made the gun ports per scale. Notice location relative to lower panel line. The upper panel line was added. Make the 20 mm gun barrel sheaths from 1/2" O.D. brass or aluminum tubing

Cooling Air Exit – For wheel well door equipped models only

□ Use Perma Grit rotary cutters and files to make these 2 holes in the top hatch just aft of the canopy.

On the real aircraft, the oval shaped hole is an air exit for the cockpit pressurization system and the triangular opening is a light lens. These exits are sufficient to allow the incoming air to cool and then escape.