



INSTRUCTIONS



42" Yak-55, 42" Yak-54, 42" Edge-540 and 42" Sbach 342

These instructions are intended as a rough guide for the kit assembly. Detailed construction videos, links to plans and online support forums can be found at www.midwestfoamplanes.com

Needed for assembly:

Glue (Welders brand glue from Lowes works best. Hot glue can be used.)

Paint (About any paint can be used with EPP)

Suggested components can be found on the web site.

CG: Yak-55, Yak-54 and Sbach is 3.5" and the Edge is 4.5", behind the leading edge of the wing.

- 1) Look over the parts and dry fit them together to check for proper fit.
- 2) It is easiest to paint the parts before assembly. Card stock can be used to make templates for stripes, checkers, ect...
- 3) Glue the two wing halves together. Cut a shallow slot in the top and bottom of the wing 36" long and 2.5" back from the leading edge of the wing tip.
- 4) Cut 2 of the 1.5mm carbon rods to 36" long. Push the rods into the slots in the wing. Press the wing flat to your table one side at a time. This will straiten out the wing. Check that the wing is strait by sighting along the wing leading edge. Wick CA along the upper spar rod letting the CA cure for 10 min and then carefully turn the wing over and glue the bottom rod.
- 5) Glue the 1mm x 3mm flat carbon to the elevator. It is positioned on the hinge bevel next to the bottom surface.
- 6) (Edge only) Glue the flat carbon pieces to the sides of the rear horizontal fuselage. Line the end of the carbon up with the aft edge of the foam. They will extend forward of the front edge.
- 7) Hinge the elevator to the horizontal stabilizer. (A Welders glue hinge video is on the web site.)
- 8) If using a stick mount, cut a slot in the horizontal nose piece and glue the mount in place. For a firewall plate wait until the airframe is built before installing. Set motor mount with NO right or down thrust. It is not required.
- 9) Glue together the horizontal pieces; nose, wing, rear fuselage, horizontal stabilizer/elevator. Aileron and elevator hinges go on top. (Edge only) Glue the flat carbon sides to the wing aileron cutout.
- 10) Hinge the ailerons to the wing.
- 11) Glue the lower fuselage doublers to the lower fuselage. Glue the lower fuselage piece to the horizontal assembly.
- 12) Glue on the upper fuselage piece.
- 13) Hinge the rudder to the aft of the vertical fuselage pieces.
- 14) Install the motor onto the motor mount and velcro the speed control to the lower left side of the fuselage. Find and mark the best location for the receiver and tail servos trying to get the balance point close to the recommended CG.
- 15) Cut pockets in the horizontal fuselage for the tail servos on either side of the vertical fuselage and glue the servos in place. The rudder servo is the one on the left. Install the aileron servos in the wing.
- 16) Install the control horns and push rods.
- 17) Program your radio and adjust push rods for 45 degrees of throw for high rates and half for low rates. 30% minimum expo is recommended.

Have fun!!!!