MISS ASHLEE

Designed by

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Building Guide

The Miss Ashlee was designed to build quickly and easily. Begin construction by checking that all of the parts listed on the "Parts List" are in your kit. Review the Plans to become familiar with the design. It is always best to start construction with the wing as this is the most important part of the model. If your wing is not straight your Miss Ashlee will not fly well!

WING:

- Locate the Rib Spacer Web Piece
- Locate and then join 1/4 x 1/4 x 18 balsa into 1/4 x 1/4 x 36
- Mark rib locations on 1/4 x 1/4 leading & trailing edges using Spacer for rib locations
- Block up the leading & trailing edges far enough apart for the ribs to fit between them.
- Use 8 pieces of 1" soft block (scrap)
- Slide the Ribs onto the Spacer Web Piece
- Pin the leading & trailing edges to the ribs
- Make sure that everything is straight & square then pin the leading & trailing edges to the 1" blocks
- Glue Ribs to Spacer Web Piece, leading & trailing edge using CyA glue
- Sand the ribs from leading to trailing edge using a T-Bar sander to make sure all ribs taper properly
- Locate the Bellcrank mount, Bellcrank, lead out wires and 1/16" pushrod wire. If you wish to use a plate-style Bellcrank mount drill a #2 hole in the 1/8 plywood Bellcrank mount where indicated on the plans. Mount the Bellcrank to the plywood plate using a 2-56 x 1/2" bolt by inserting the bolt through the plywood and Bellcrank. You can use an extra nut or washers between the plywood and the Bellcrank to raise the Bellcrank high enough above the mounting plate to insure free movement of the wire pushrod. It's a good idea to install the lead out wires onto the Bellcrank now. Also drill out one of the Bellcrank holes to accept the 1/16" pushrod wire.
- Insert the lead out wires (You will have to cut holes in the inboard Ribs for the wire to pass through) and mount onto the bellcrank.
- Glue the Bellcrank mount between the ribs
- Insert the 1/16" pushrod into the Bellcrank using a "Z" bend
- Check the system to make sure that it moves freely
- Use a Flat sanding block to sand the leading & trailing edges to shape
- Plank the center section using 1/32" balsa. Cut out a hole for the pushrod
- When everything is dry remove wing from the jig and turn over
- Pin the wing to the jig
- Sand the leading & trailing edges to shape
- Glue 2 pieces of 1/8 X 1/4 scrap to the Bellcrank/Rib joint to help support the Bellcrank
- Plank the center section using 1/32" balsa
- Glue the Wing Tips to the outside Rib
- Slide small pieces of brass tubing over the lead out wires and glue to the inboard wing tip as lead out guides
- Check that your Bellcrank moves freely
- Run the lead out wires through the ribs and out through the adjustable lead out guide. Finish the ends of the leadouts using the eyelets and crimp sleeves (or wrap the ends if you prefer)
- Locate the adjustable weight box and assemble it. This box is designed to accept the Sig brand of 1/4 oz flat weights. Glue the two 3/4 x 3/4 sides to the 3/4 x 3/4 bottom. Glue the two 3/4 x 1 sides. Place the 1/16 top plate in place and drill a 1/8" hole in the center of the top piece and the box bottom. Install a 4-40 blind nut in the box bottom and glue it in place. Epoxy the weight box to the last rib and spacer web piece on the bottom of the outboard wing

FUSELAGE

- Glue the 2 pieces of angled balsa the front of the fuselage
- Glue the 1/8 X 1-1/2 X 1-1/2 plywood motor mount to the front of the fuselage making sure that it is square
- Insert the tail skid into the bottom of the fuselage and reinforce with a strip of cloth glued with CyA

ASSEMBLY

- Slide the wing into the fuselage. You may have to sand the hole to achieve a perfect fit
- Check that the wing is level using a square
- Measure from the back of the fuselage to each wing tip to center the wing
- When satisfied that the wing is level recheck everything again then tack glue the wing using CyA
- Recheck the level again
- Glue wing into fuselage using 12 min epoxy
- Use the same procedure with the stabilizer
- Make a "Z" bend in the pushrod at the trailing edge of the stabilizer
- Hinge the stabilizer and elevator after making sure that the edges join closely but move freely
- Insert the elevator horn onto the pushrod the mount it on the elevator.
- Check that everything moves freely
- Glue the Rudder to the top of the fuselage so that it angles to the outside of the circle as the plan shows
- Check that your controls move freely
- Fine sand everything
- Cover the wing using either the silkspan supplied in the kit of use an "iron-on covering such as Monocoat
- Paint the wooden parts using a model dope such as Sig's SuperCoat or use "Rustoleum" spray paint. You will achieve a much smoother finish if you brush two coats of clear dope on the wood with fine sanding between each coat. This will help to seal the wood grain. You can add a little talcum powder to the last coat if you wish to help to fill the grain. You should have a smooth finish to the wood with no grain showing before the color coats are applied.
- If you intend to use a Cox "Baby Bee" or similar engine and plan to perform stunts with your Miss Ashlee you must move the position of the fuel pick-up tube inside the tank. Remove the engine backplate. The fuel tube will be pointing toward the bottom of the tank. Move the fuel tube so that the pick-up is facing toward the outer side of the tank. Since your fuel will flow towards the outer side of the fuel tank when the Miss Ashlee is in flight you must have the fuel pick-up tube in a position to draw fuel constantly. If you do not move the fuel pick-up tube to this position your engine will stop whenever you perform stunts.
- Mount your engine making sure that the Landing gear is sandwiched between the engine & the motor mount

Thank you for purchasing the Miss Ashlee. We hope that you enjoyed building the kit. If you have any suggestions for improving the kit please contact RSM Distribution.

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