

WING

1. You must decide whether you want flaps and retractable landing gear before you start the wing. If you do, then add these details in your drawings to be sure you know how you want them.
2. Wing construction begins by gluing the W-20s to W-21s. The easy way is to fit one of each together as shown and hold in place with one long strip of masking tape. Turn it over, fold open using the tape as a hinge, glue the seam and wipe away excess glue.
3. Cover the wing plan with wax paper or Saran Wrap and pin the bottom spar in place using scrap balsa to block it up under W-6, W-7, and W-8 and the tip. The amount of needed block height can be measured by laying a straightedge along the bottom of wing front view and measuring it.
4. Draw centerlines on W-2s, W-4s and W-8s. Notice there is a top and bottom to the ribs (top is curved more).
5. Pin these ribs in place and adjust a straight strip of scrap balsa under the rib trailing edges such that the centerlines are parallel to your table top.
6. Glue ribs W-2 through W-8 in place and add the top spar.
7. Make the taper cut at spar tips (on the inside) as shown on the plan front view.
8. Trim the W-27 to fit in front of the spars and outboard of W-8. Glue it in place.
9. Glue in the square balsa rear spars.
10. Glue the top trailing edge sheet in place and then add the leading edge strip and the W-22 gun mounts.

11. When dry, sand off the top of leading edge to match the wing curve.
12. Carefully add the remaining top of the aileron outline on this wing skin.
13. When dry, remove this assembly from the wing and turn it over to complete.
14. Bolt the aileron bellcrank on to W-1 with pushrods attached as shown W-5.
15. Insure it works smoothly and then bolt and glue in place on the trailing edge skin in place.
16. Cut rod exit hole in bottom wing skin in place.
17. When dry, cut out aileron and cut a shaded area in the drawing below.
18. Add W-9 and W-25 to aileron (as shown) glue in scrap balsa fills at the ends as shown.
19. Glue W-26s between W-4 and W-5 W-7 and W-8.
20. Then, add W-24 and fit the hinges.
21. Now repeat this procedure for the other side.
22. The wing center section is built last.
23. Begin by trimming bottom spar of aileron which will allow it to rest flat on your table (located at the W-1 position) with 1/8 inch clearance.
24. Carefully interlock the W-1s, W-11, and slide panels into position as shown.
25. Glue W-13 and W-19 in place between the ailerons.
26. Install the W-14 landing gear mount and next to W-1A.

