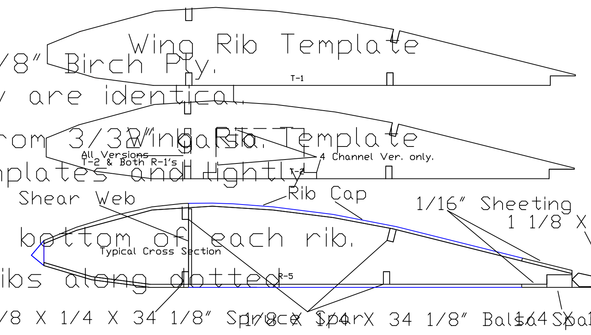
INSTRUCTIONS

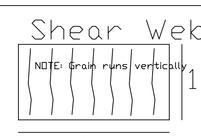
1. Cut 2 - Wing Rib Templates from 1/8" Birch Ply. Clamp together and sand until they are identical.
2. Using the template, cut 24 ribs from 3/32" balsa. Clamp 4 ribs at a time between templates and lightly sand to match template shape.
3. Carefully cut notches on top and bottom of each rib.
4. Cut template T-2 and two balsa ribs along dotted lines as shown on T-2 template.
5. From a 1/16 X 3 X 36" Balsa sheet, cut 24 - 1 1/2 X 3" pieces. (See Shear Web example)
6. Pin Aft Spar and T.E. to building board. (see plan for dimensions) (Pin down on wax paper covered plan or 1" graph paper)
7. Glue Wingtip rib to aft spar and T.E. Use a square to assure alignment.
8. Repeat this process for all ribs, using a Shear Web piece as a space guide. Ribs must be exactly 3" apart at facing sides. (See plans) DO NOT GLUE R-1 in place at this time.
9. Select correct Dihedral Brace for your Control Option, and cut from 1/8" Lite Ply.
10. Glue top spars in place across wing assemblies.
11. Carefully glue Shear Webs to AFT side of front spars between ribs, with bottom edge flush with bottom edge of lower spar. (see Typical Cross Section) Shear Webs will be slightly shorter than top spar height. Note: Glue is applied to aft side of spars and edge of Shear Web where it contacts rib.
12. Cut angled edges on inner Shear Webs and glue square edge against R-2 Repeat process by glueing second Shear Web to front of spars.
13. Carefully glue rib R-1 to end of wing, against shear web. Use a square to assure alignment. Glue bottom front spar to assembly. When dry, sand top spars flush with R-1.
14. Glue Leading Edge strips to front of wing assemblies. Sand inner end flush with R-1.
15. For 4 Channel version, install hinges, aileron torque rod linkage, and ailerons as shown. For 3 Channel version, glue Aileron Strip against T.E. as shown.
16. Coat 1/2 of dihedral brace with epoxy and slide into slot in R-1 until centerline is 1/16" from rib, and parallel with rib surface
17. Arrange wing halves with R-1's facing each other. Elevate and support wingtips to set dihedral (1" for 4 Channel 2" for 3 Channel)

NOTE: The next step must be done on a flat surface, with the wingtips fully supported in order to avoid a built in "twist" in the wing. Test fit all parts before glueing.

18. Coat both sides of protruding end of dihedral brace and T-2 with epoxy. Join the wing halves with T-2 sandwiched between them. Check Alignment and clamp together until fully cured.
19. Glue 1/16" sheeting to wings as shown. Cut Rib Edges and glue to top and bottom of ribs where exposed.
20. Epoxy centerline of wing with 2" wide Fiberglass to reinforce wing center joint.
21. For 4 Channel Version only, Epoxy aileron servo mount into wing.
22. Sand all edges and surfaces smooth, and cover with plastic film.

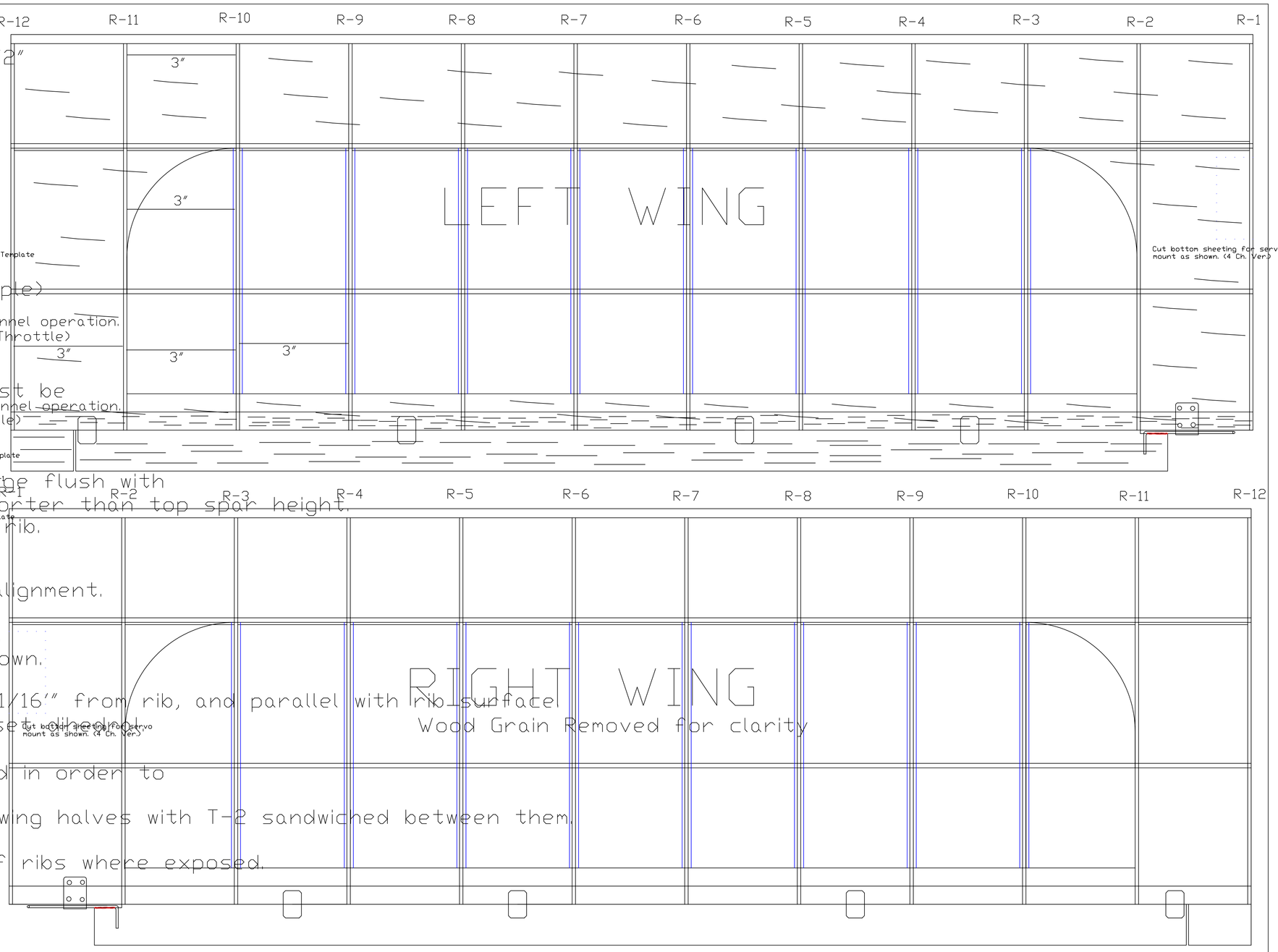
NOTE: Wingtips can be left flat, or tips added to builders preference.





Dihedral Brace

Use this template for 4 channel operation. (Aileron Rudder Elevator Throttle)

Dihedral Brace

Use this template for 3 channel operation. (Rudder Elevator Throttle)