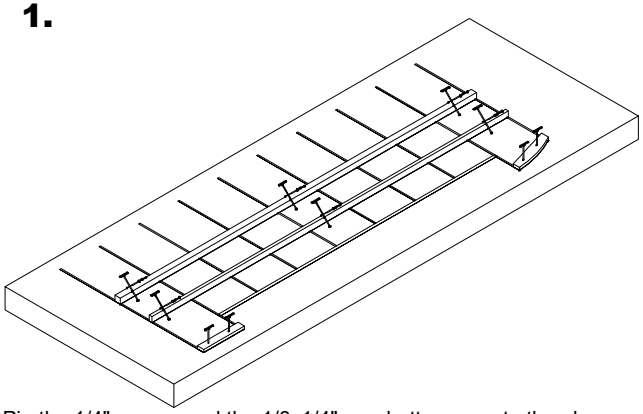
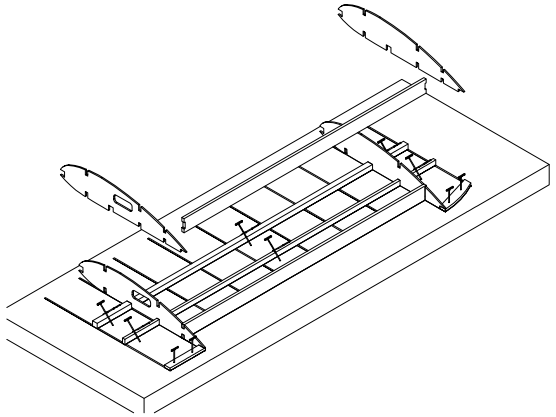
1.



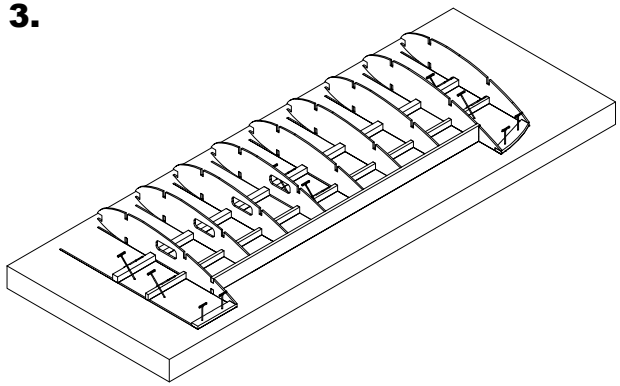
Pin the 1/4" square and the 1/8x1/4" rear bottom spar to the plan as shown. Also pin down the two 1/8" balsa trailing edge pieces as shown.

2.



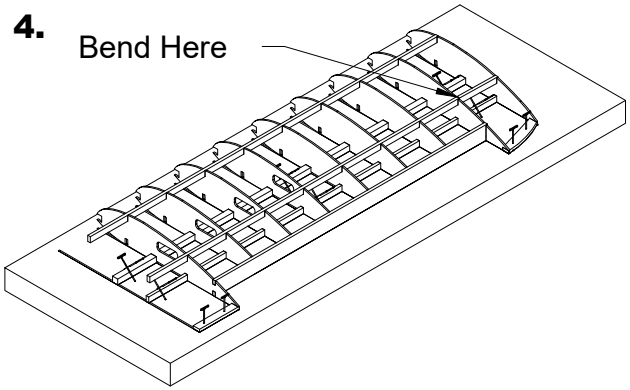
Dry fit the two ribs at the ends of the aileron opening edge and the aileron opening trailing edge as shown. When satisfied with the fit relative to the plan apply some thin Cya to the joints.

3.



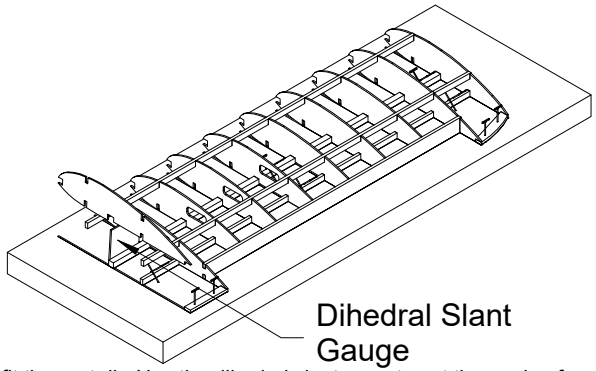
Dry fit the other ribs excluding the root rib. When satisfied with the alignment of each part to the plan and the structure, apply thin Cya to all joints.

4.



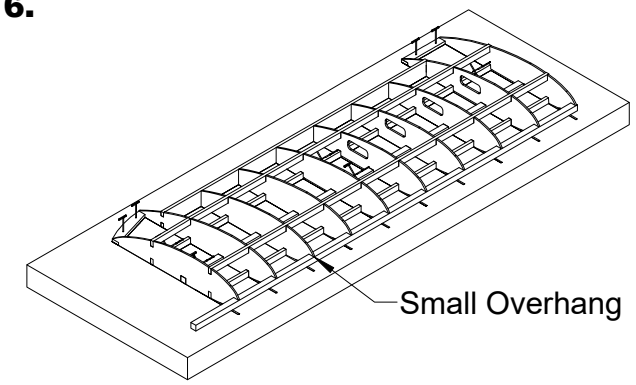
Dry fit the the top 1/8x1/4" spars to the structure. Note that the rear spar will have to bend down slightly at the tip. Align the spars to the tip rib. Apply thin Cya to the joints.

5.



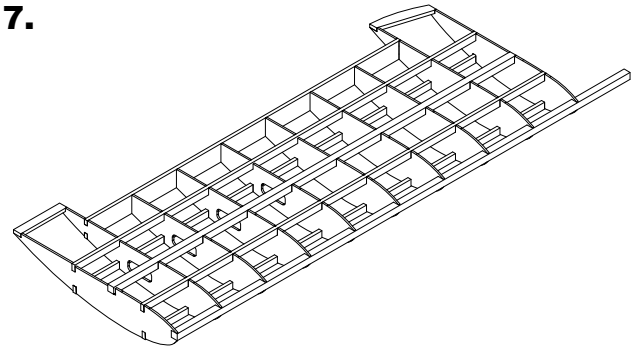
Dry fit the root rib. Use the dihedral slant gage to set the angle of the root rib. DO NOT GLUE THE SLANT GAUGE. Note that there will be a 1/16" gap between the forward edge of the main spar notch and the main spar. Apply thin Cya to the joints when satisfied with the fit.

6.



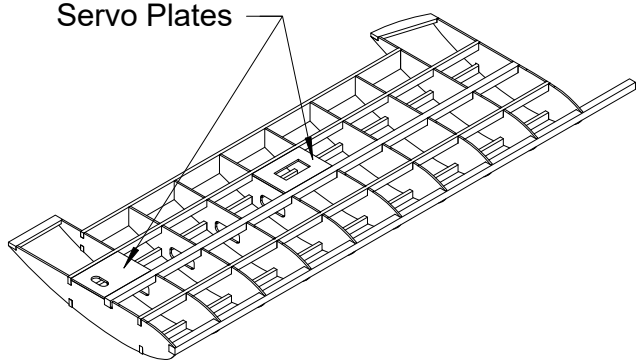
Insert the 1/4" leading edge into the rib slots. Align with the root rib. When satisfied with the fit, apply some thin Cya to the joints.

7.



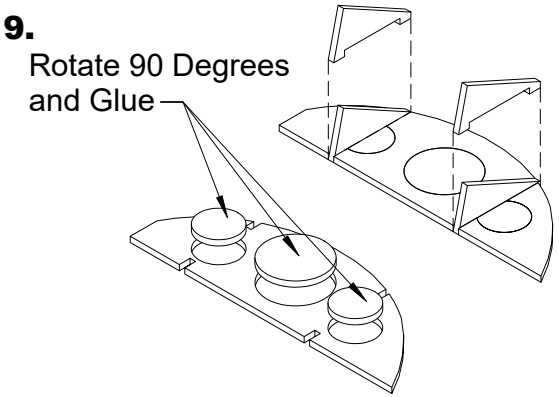
Remove the assembly from the building board. Insert the bottom forward 1/8x1/4" balsa spar in the rib slots. Apply thin Cya to the joints.

8.



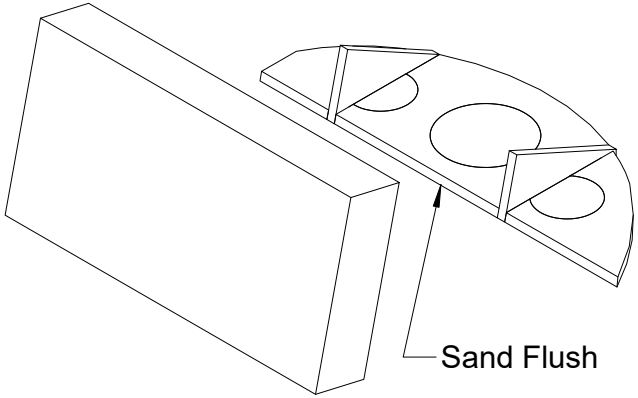
Dry fit the servo plate and servo lead guide plate to the assembly as shown. When satisfied with the fit, apply thin Cya to the joints.

9.



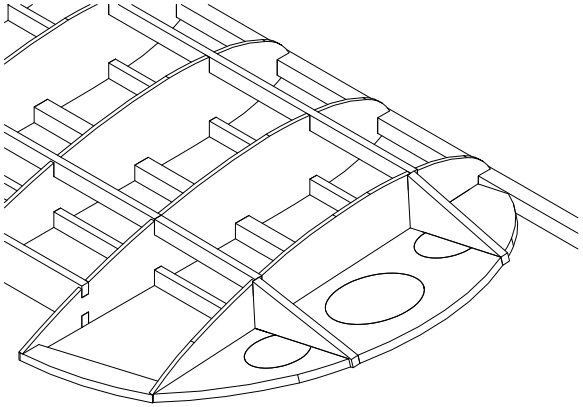
Remove the hole inserts in one of the tips. Rotate the inserts so the wood grain is 90 degrees to the tip grain direction. Apply some thin Cya to each insert. Next glue the tip angle supports to the tip as shown.

10.



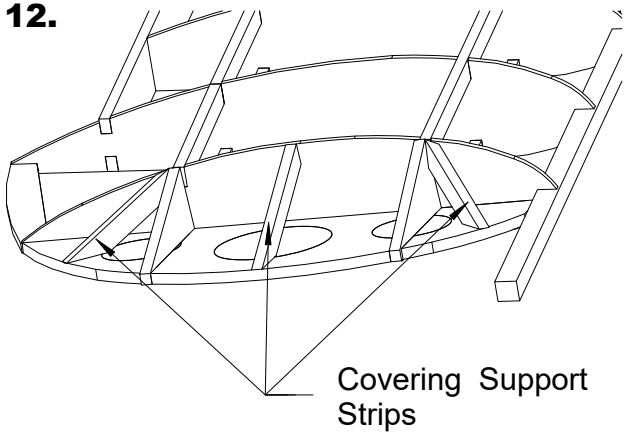
Sand the bottom edge of the tip so it is flush with the supports.

11.



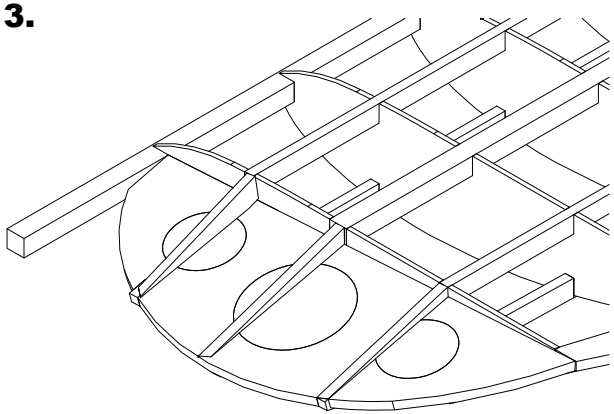
Glue the tip to the assembly as shown. It should be tight against the leading edge.

12.



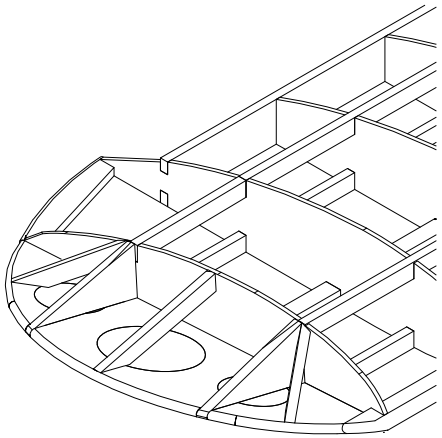
Use some 1/8x1/4" stock to make up three tip covering supports as shown.

13.



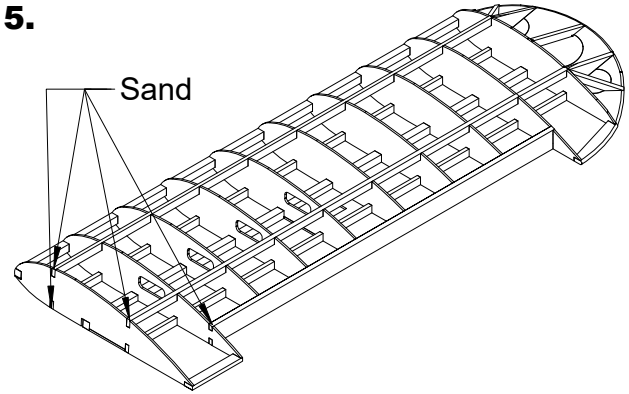
Flip the assembly over and add three strips to the bottom of the tip as shown.

14.



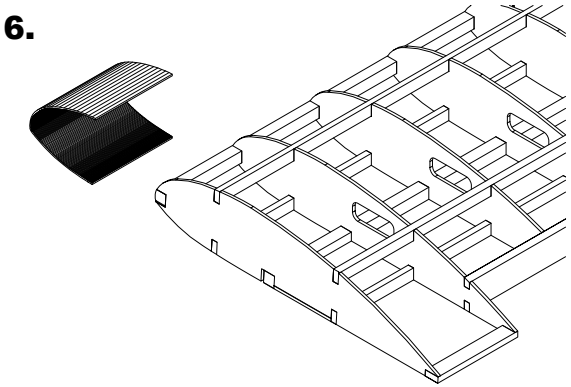
Sand the leading edge to a rounded shape. Also sand the tips and blend the leading edge to the tip.

15.



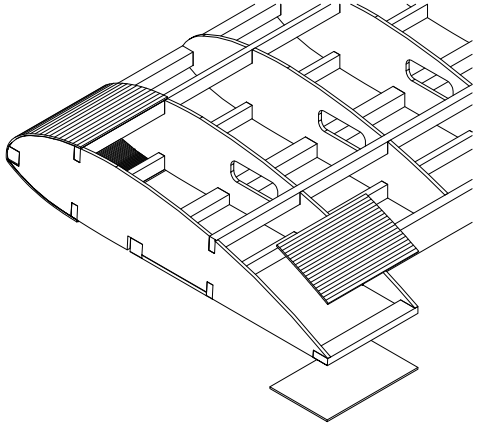
Carefully sand the spars so they are flush with the ribs. To protect the ribs during sanding, strips of masking tape can be applied to the ribs parallel to the spars.

16.



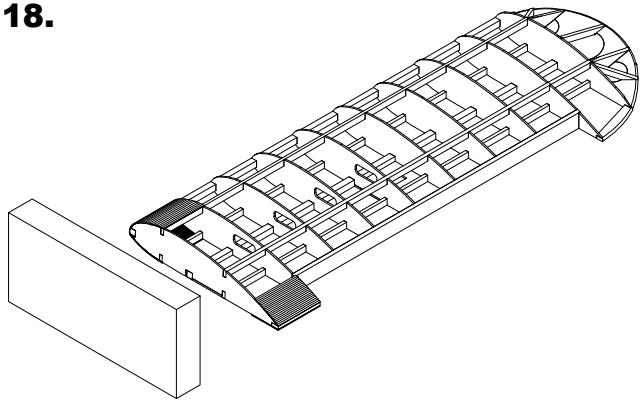
Make up a strip of 1/32" blasa that is 2.5" wide and 3 19/32" long. Wet one side of the strip and let it rest for several minutes. Place the wet side against the assembly at the root and bend it around the leading edge as shown. Glue in place with thin Cya.

17.



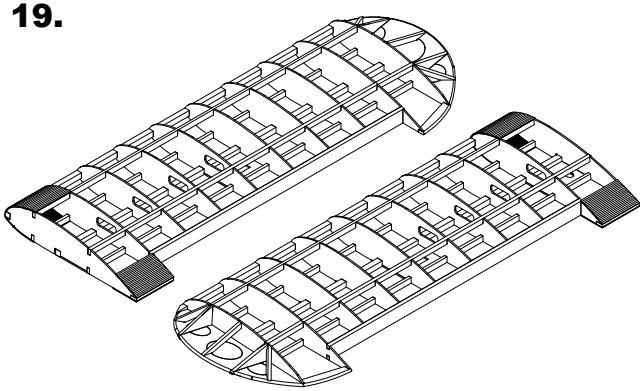
Glue the two trailing edge 1/32" balsa cap pieces to the assembly as shown.

18.



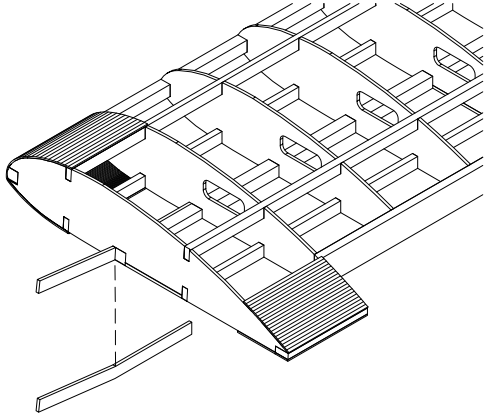
Sand the the wing root smooth.

19.



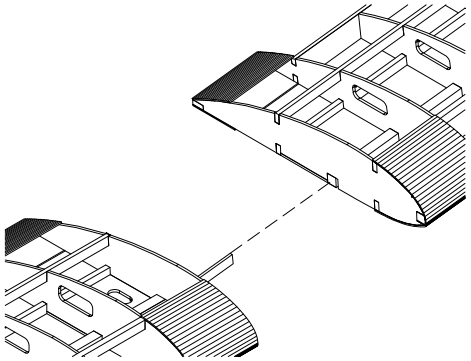
Repeat steps 1 through 17 for the other wing half.

20.



Glue the plywood dihedral doubler to the forward face of the main spar of one of the wing panels.

21.



Apply an air dry glue or epoxy to the face of the root rib and the plywood doubler. Slide the exposed leg of the dihedral doubler into the corresponding slot of the opposite wing half. Make sure the root ribs are tight together. Some masking tape can be used to hold the wing halves together while the glue dries.

22.

Check the fit of the 1/8" balsa ailerons to make sure there is something like 1/32" clearence at each end. Depending on the style of hinge being used, sand the leading edge of each aileron to the shape shown here.

23.

Cover the wing and the ailerons. Attach the ailerons using your chosen hinge style.

24.

Route the servo leads/extensions trough the servo plate opening and then through the rib openins. Pull the connector through the opening in the guide plates at the wing root. Attach the servos to the wing plates with screws.

25.

26.

27.