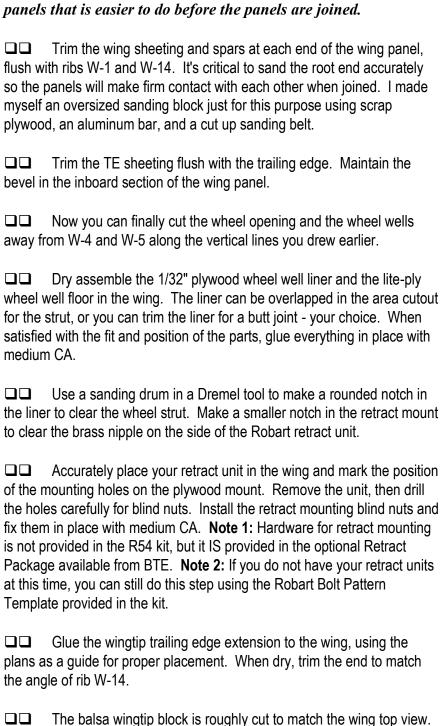
## 3 WING PANEL DETAILS

At this point, the primary structures of the wing panels are complete. The last major part, the top center sheeting, will be added after the wing panels are joined (this allows easy access to the dihedral braces so you can be certain they are glued properly). This section wraps up some of the detail work on the wing panels that is easier to do before the panels are joined.



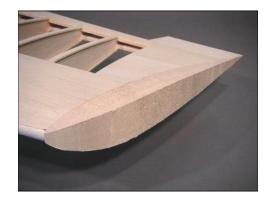
Mark the airfoil shape on the block using the actual wing as a pattern, then saw the block to a rough airfoil shape. Glue the wingtip block in place with

yellow glue using pins and tape to hold it in position until dry.



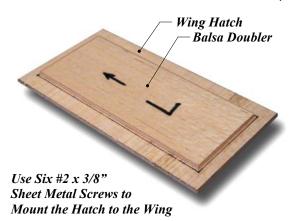






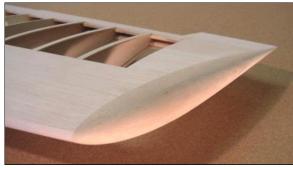
Carve and sand the wingtip to a pleasing round shape. You can protect the surrounding sheeting by masking off a portion of your sanding block with paper and tape.

The wing hatches that you cut out earlier need to be stiffened with a balsa doubler. Use some scrap 3/32" balsa cut



slightly smaller than the hatch opening which is already drawn on the hatch. Make sure the grain of the doubler runs fore and aft, perpendicular to the hatch grain. Glue the doubler to the hatch.

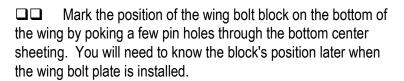


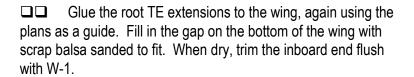


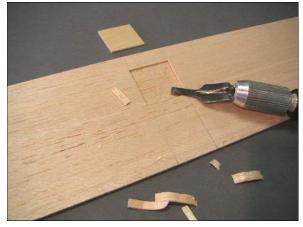
Lightly sand the edges of the hatch, just enough to provide some clearance for covering material. Mark the positions of the six

mounting holes, tape the hatch to the wing, then drill at the marks with a 1/16" drill bit. Remove the hatch and re-drill the holes in the hatch with a 3/32" drill bit. You can toughen the wood around the holes in the hatch by applying thin

CA. Finally, mark the hatch to indicate the correct wing panel and an arrow pointing forward to help with orientation later.







Cut a flap from the material provided in the kit. Sand the ends square, leaving about a 1/16" gap at each end for clearance. Inset a 1/16" plywood control horn pad into the bottom of the flap, positioned as shown on the plans.

□□ Cut an aileron and install its control horn pad just as you did for the flap.

Now is a good time to drill the flaps and ailerons for their control horns. The flaps use short horns (one left-hand, one right-hand), and the ailerons use the long horns. Position the horns carefully, mark the mounting holes, then drill at the marks with a 3/32" drill bit. I like to use a drill press for accuracy; prop up the surface so the ply pad is perpendicular to the drill. Harden the wood around the holes using thin CA. **NOTE:** The flap horns are positioned back from the hinge point to minimize the vertical displacement of the pushrod at full flap deflection.