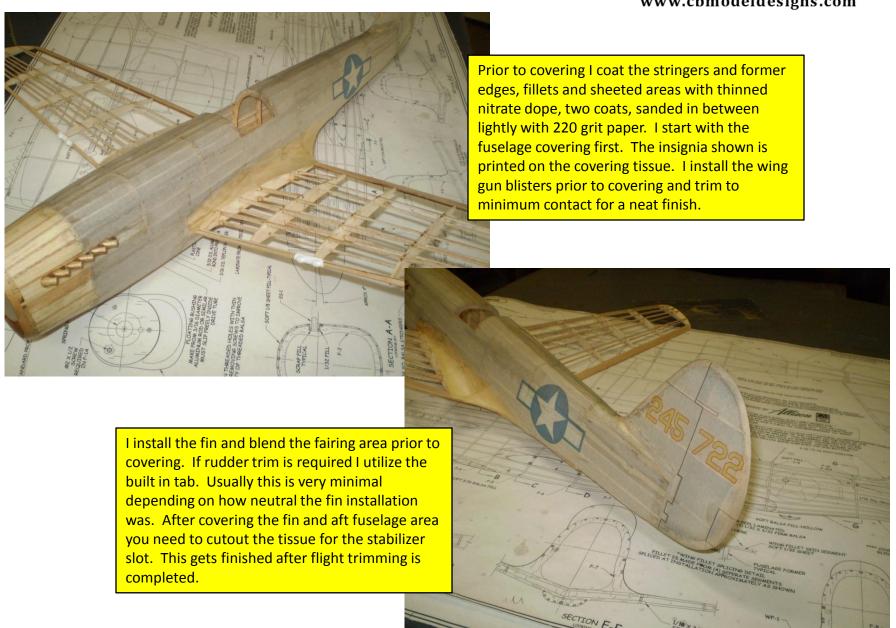
CURTISS XP-40Q

Kit No. CBMD-003

Construction Detail

Part 3 of 3: Covering the model

CB Model Designs



Kit No. CBMD-003 Curtiss XP-40Q

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I cover the ventral area before the wings

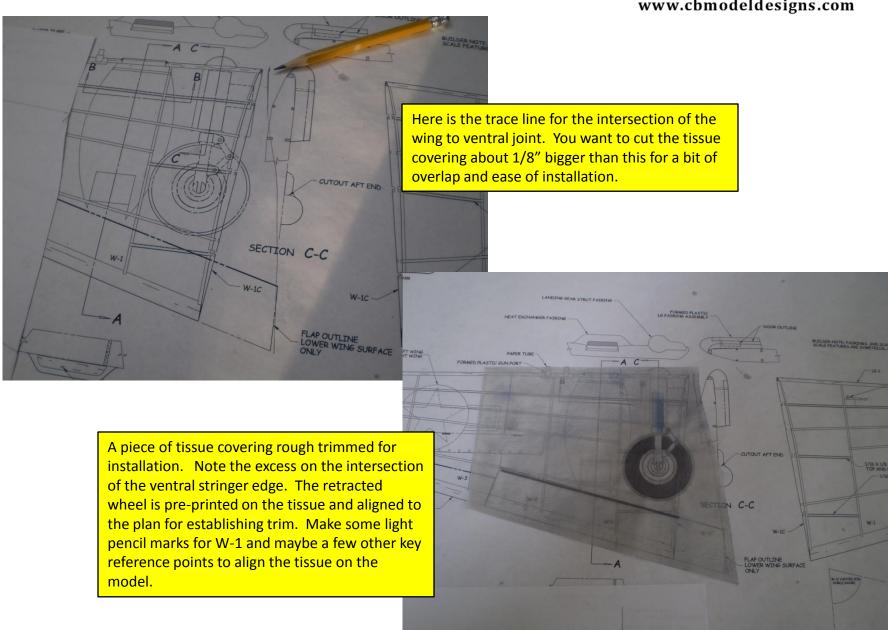
Not shown on the drawing-I add a little filler in this area to provide more edge on the upper side of W-1C for attaching tissue. It's soft 3/16 balsa-I taper it to flush at the bottom edge of W-1C and then hollow it with a ball shaped rotary file in a Dremel tool. Whatever method you choose-provide a bit more area to bond the wing tissue to W-1C on the top edge-life will be easier!

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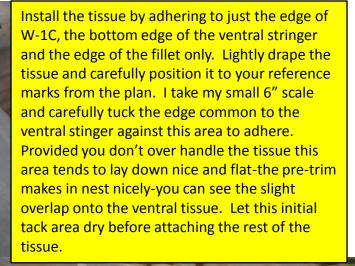
The tissue joint between the wing and ventral stringers seems hard-but with care and patience it's really not that hard. If this was a one piece wing you would be eventually faced with a tissue repair in this area anyway. Use a piece of translucent paper you can see shadows of the structure through and trace where W-1, the T.E. and main spar are from the drawing. Use these markings to position on the bottom of the wing and develop a trace of the curve in the ventral stringer intersection. It's easier than it sounds. Cut to profile and check the fit-adjust as needed until you closely follow the contour. Flip the template onto the opposite wing and check for fit here too.

Position your template on the wing drawing and trace the profile of the ventral stringer intersection onto the wing plan, aligning to the same reference features you started with.

ON C-C

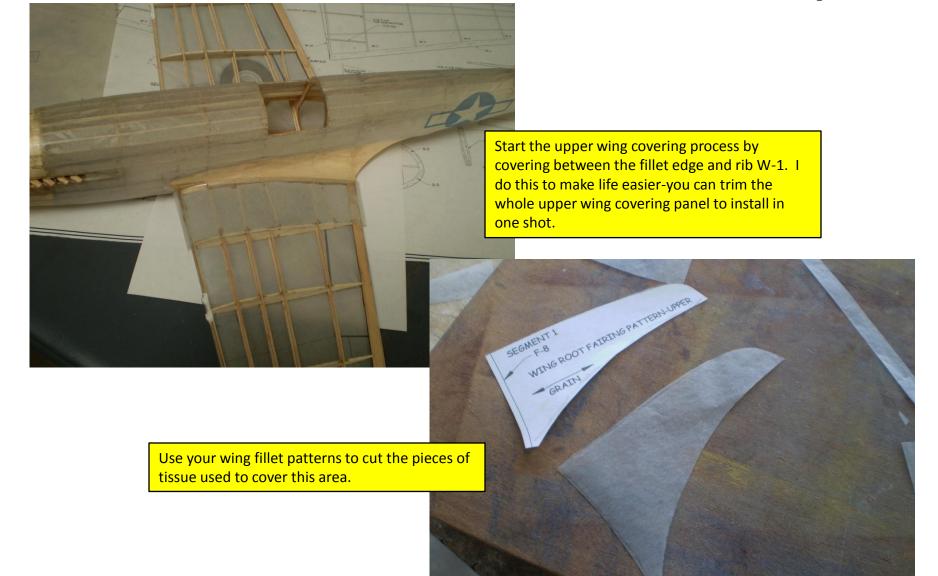


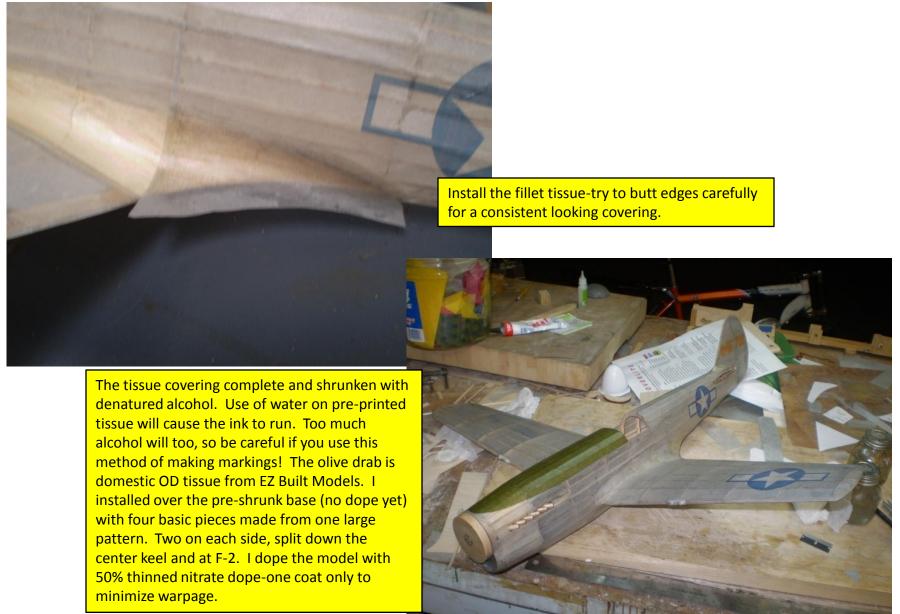
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Now attach the rest of the tissue panel to the wing and let dry. I use fairly thick nitrate dope to attach tissue-I'm old school and it works. After set, trim and dope down overlaps on the L.E. and T.E., etc. Apply thinner and dope to seal the edge common to the ventral stringer to keep this from coming off during the shrink step.





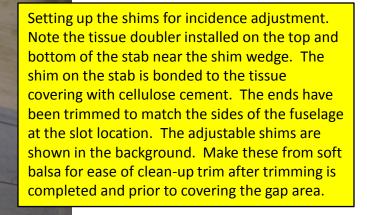


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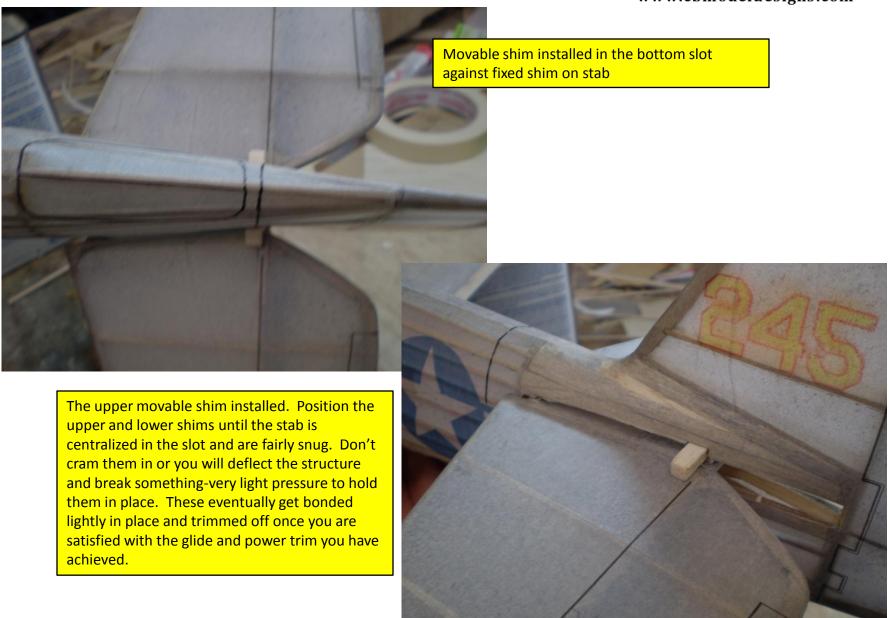


Showing the stabilizer installed for reference. Not shown are the shims used to wedge the assembly in place and adjust incidence for glide trim.

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The stab is installed for flight by using a bit of cellulose glue at the front edge slot the stab fits into. The upper and lower shims are then place over the wedges attached to the stab, and held in place by the slot in the fuselage which is there to trap them in location. I highly suggest two sets of movable shims be made in case you lose one or two during flight tests!











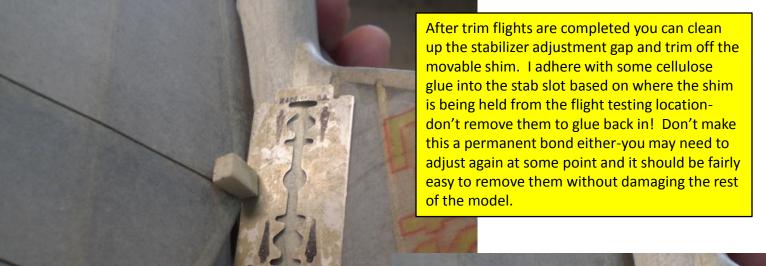
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A few views of the noseblock under engagement with the motor. I use the small Crocket hook from FAI model supply for the most part, which is the metallic bit that is attaching the motor to the prop shaft hook in case you are unfamiliar with this technique.

The three screws are for thrust line adjustment of the noseblock. This makes for quick field adjustment with no shimming to bring in the power setting. I apply thin CA to the surface of the noseblock where the screw heads contact to locally harden and keep indentations in the balsa from changing the thrust angle. Once the model has been fine tuned for maximum power the laser cut balsa nose shim can be glued to the front of the fuselage and faired in to the contour of the nose. Then block sand the front of the shim until you contact the three screw headsthis results in a fully seated noseblock with minimal gap on the thrust plane established by the three screw heads. Seal and finish the thrust shim to match the fuselage and noseblock.



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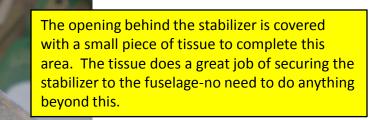


The trimmed shim-this is why soft balsa is used for the movable shim!



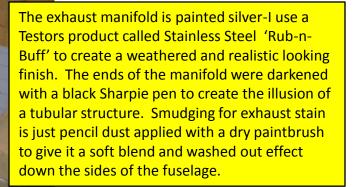


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Finished tissue covered tail area-you can add line work to represent the stab to fin fairing edges, etc.

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The basic finished model-keep it in a storage box to preserve the finish and minimize warping. Most of all-enjoy the fruits of your labor and appreciate the slender beauty this model offers in flight!