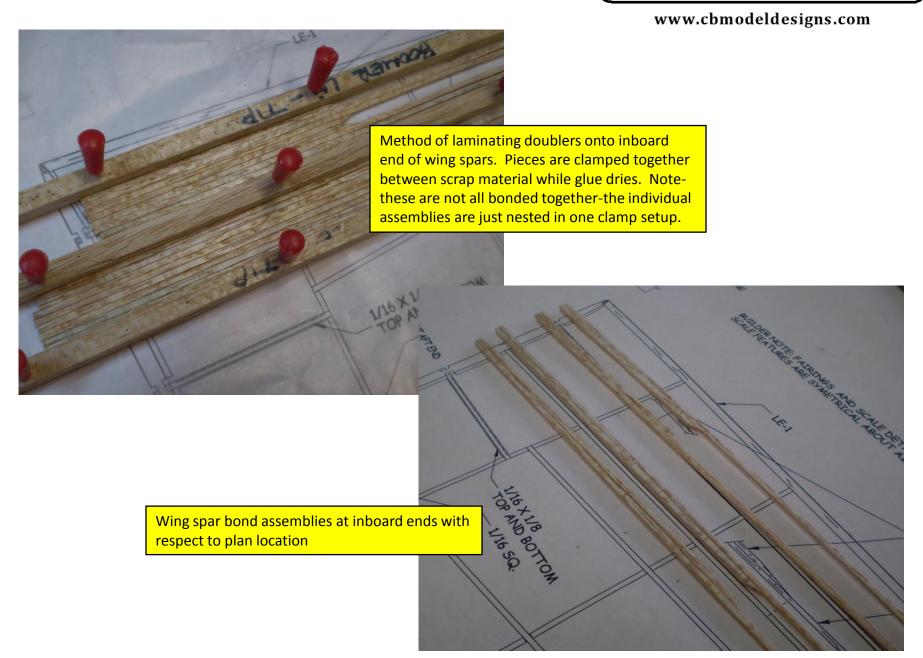
CURTISS XP-40Q

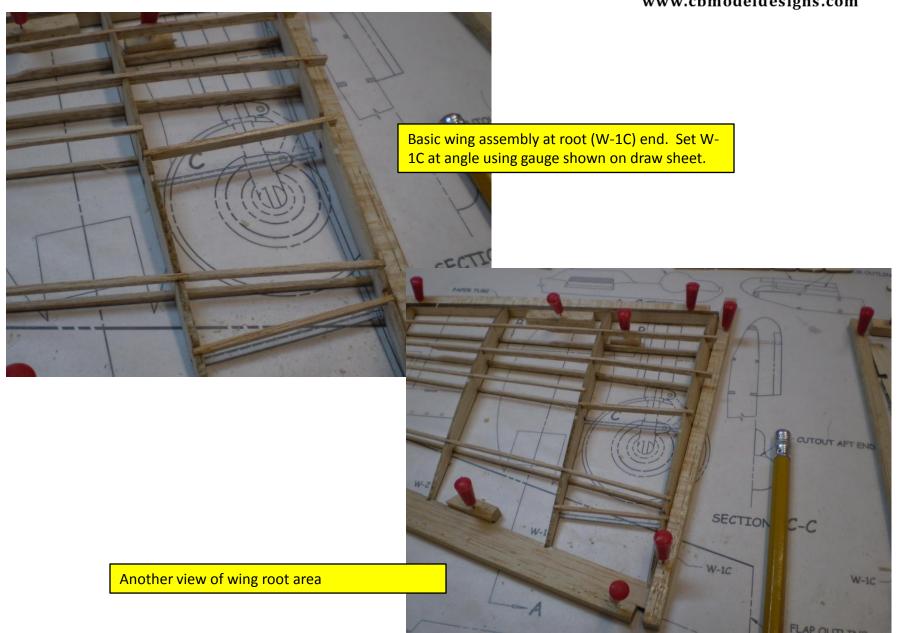
Kit No. CBMD-003

Construction Detail

Part 2 of 3: Wing and final assembly

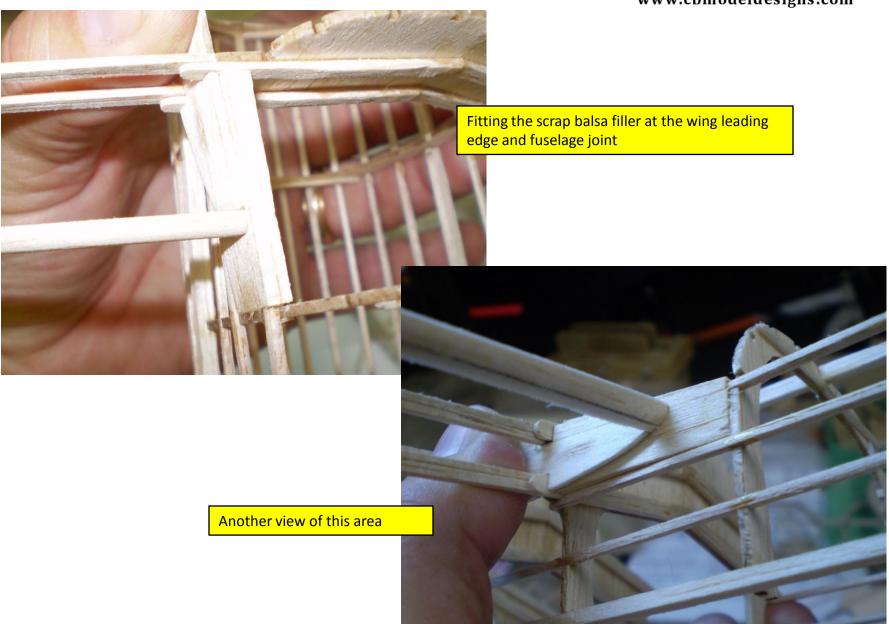
CB Model Designs

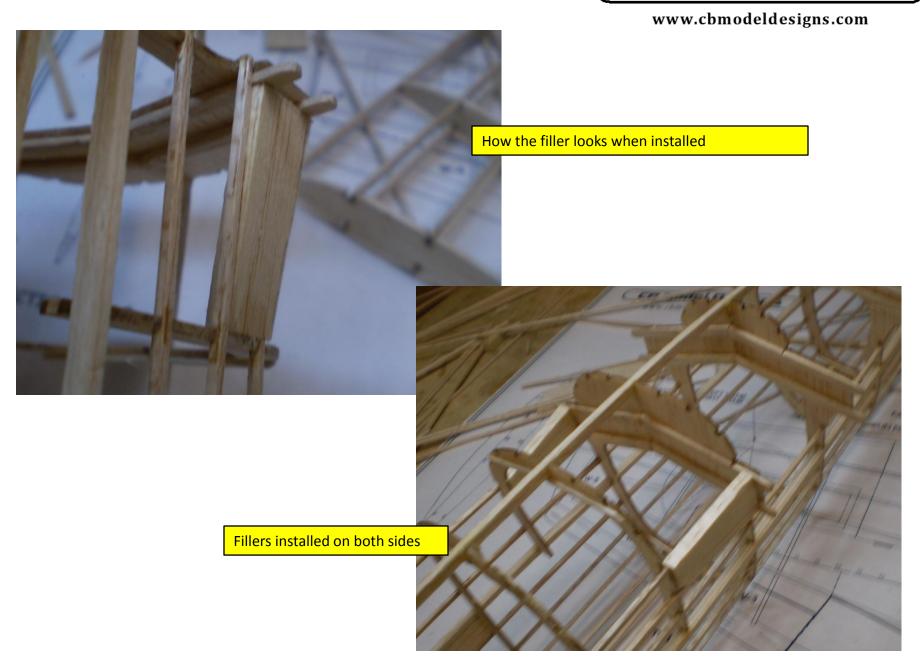


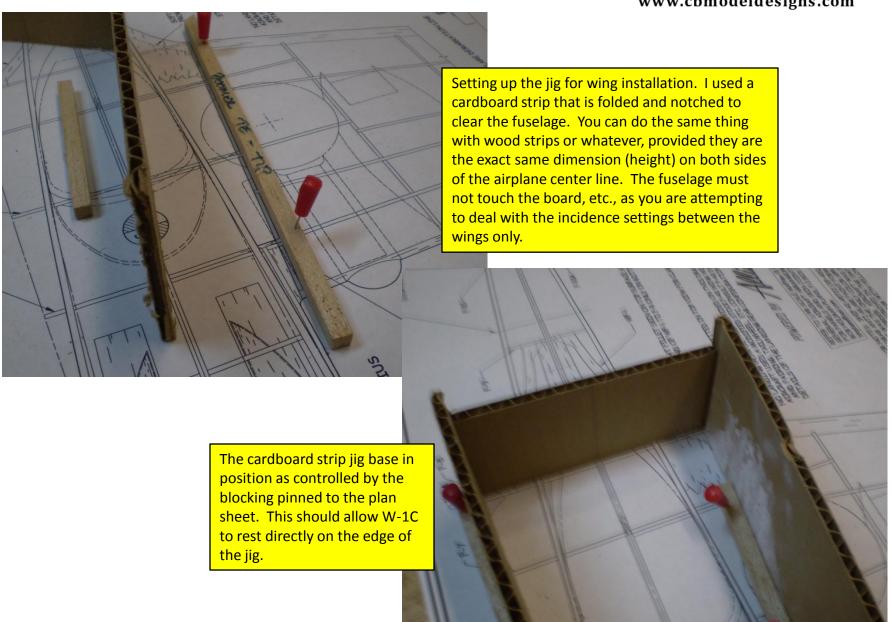


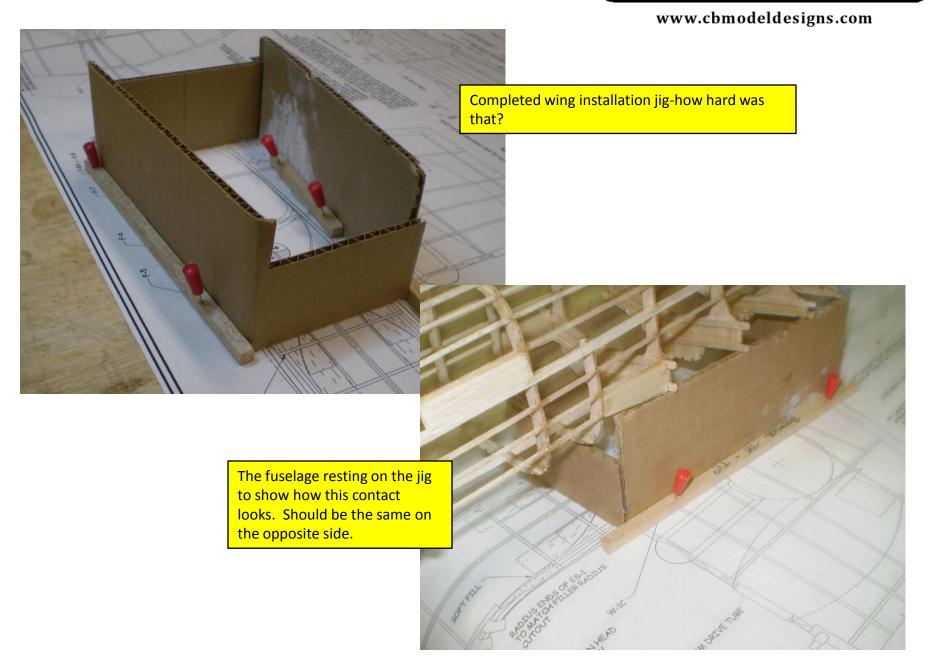


CB Model Designs









www.cbmodeldesigns.com



Looking down on the fuselage in position on the jig base

I start by installing the left wing panel-make sure the bottom of W-1C is set flush to the bottom of wing frames F-5, F-6, F-7 and the inside surface is contacting the ends of these frames. Once positioned, hit the stub spar joints with thin CA to attach everything. Go back and hit the ends of the frames lightly too. Most of the wing load is going through the stub spars-a perfect joint between W-1C and the ends of the frames is not necessary. Hopefully all your W-1C prefitting resulted in tight joints between the stub spars and wing spars for maximum strength. If not, make shims to take up the difference and improve the joint

CB Model Designs

www.cbmodeldesigns.com



Another view of the left wing installation

Area near former F-8 and wing T.E.







www.cbmodeldesigns.com



Prefit the right wing to the jig and stub spars, etc. and also the jig used to hold the dihedral angle the same as the left side. Then use thin CA to set all the joints. This completes wing installation with the bottom of both panels set to the identical incidence angle!

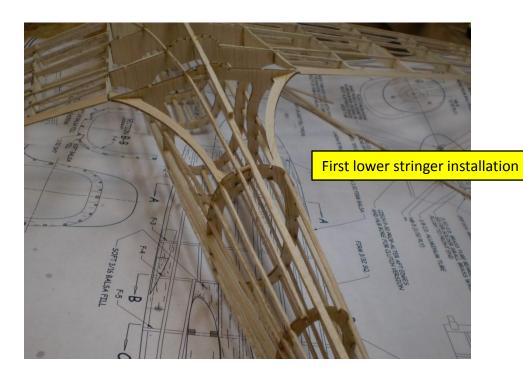
Completed tie-in at the wing root/T.E.

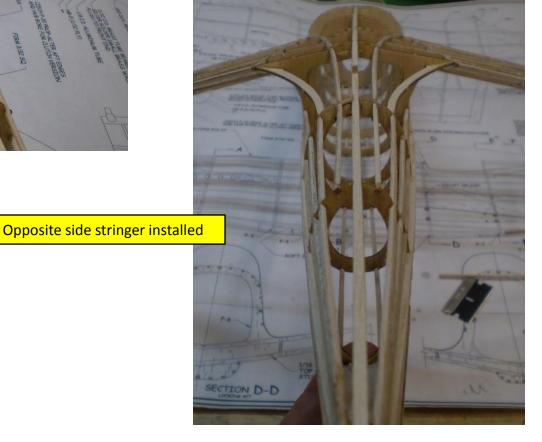
CB Model Designs





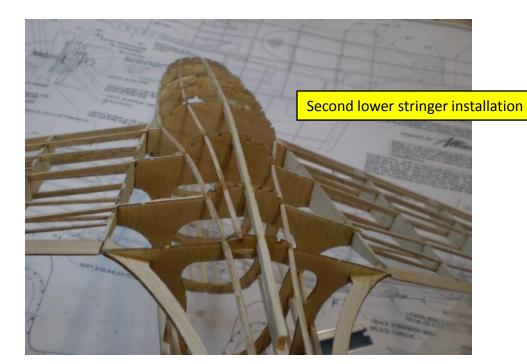
CB Model Designs





CB Model Designs

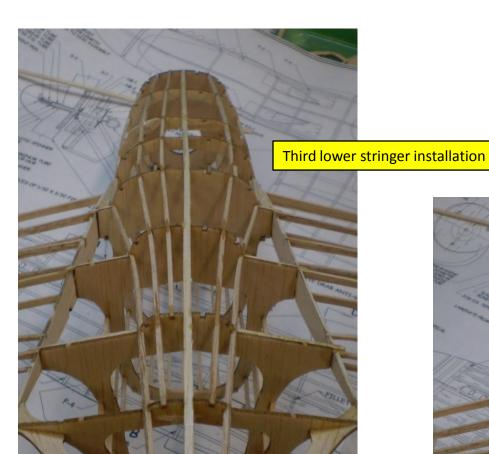
www.cbmodeldesigns.com

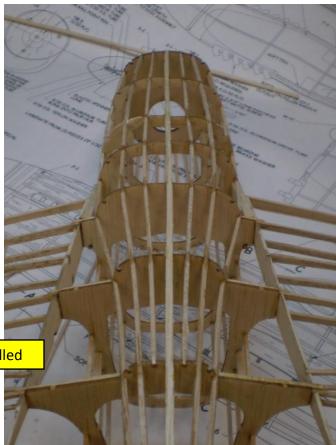


Opposite side stringer installed

Copyright CB Model Designs 2011

www.cbmodeldesigns.com





Opposite side stringer installed

CB Model Designs

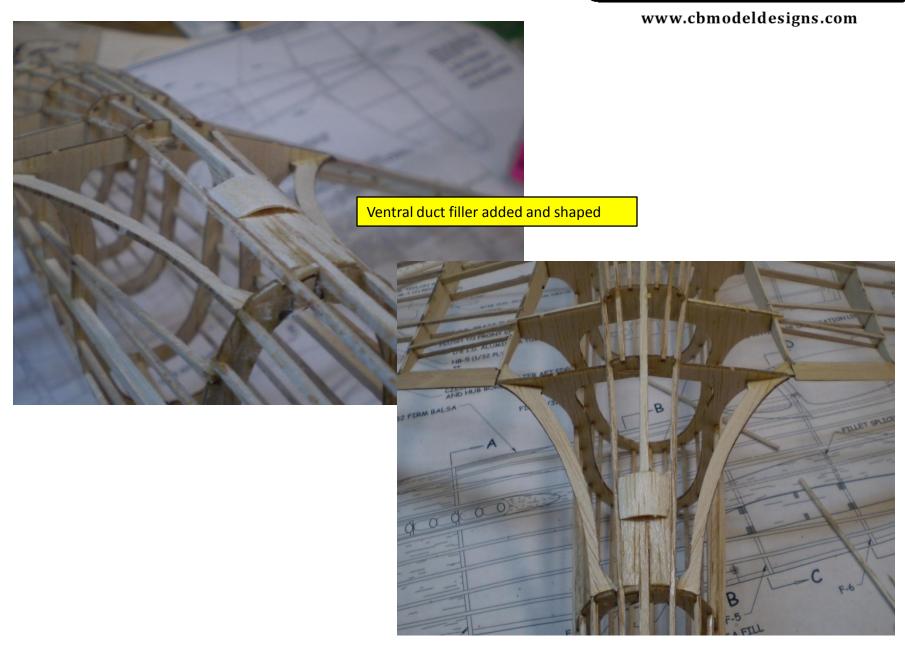
www.cbmodeldesigns.com

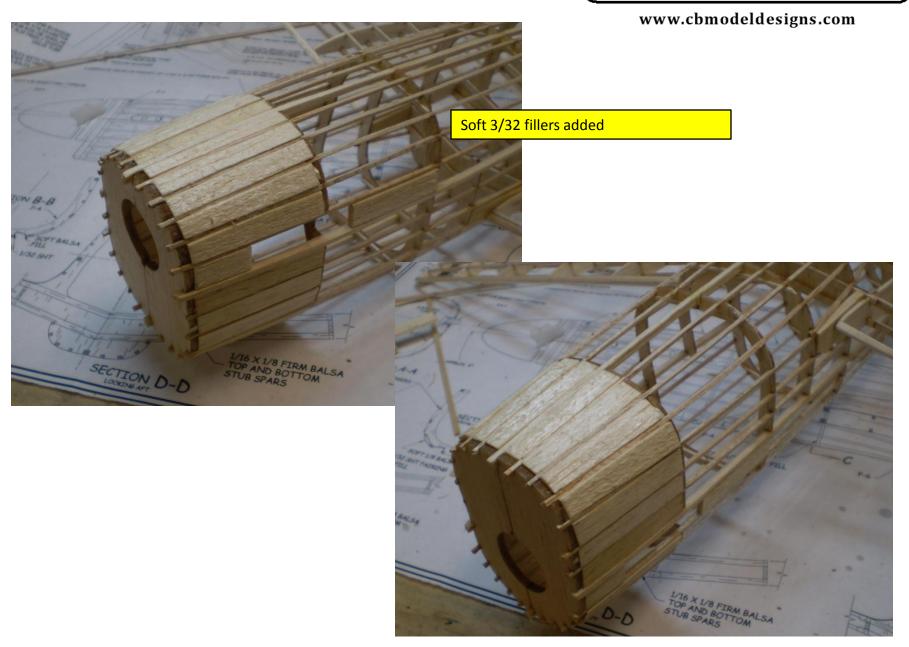


Lower stringer installation complete



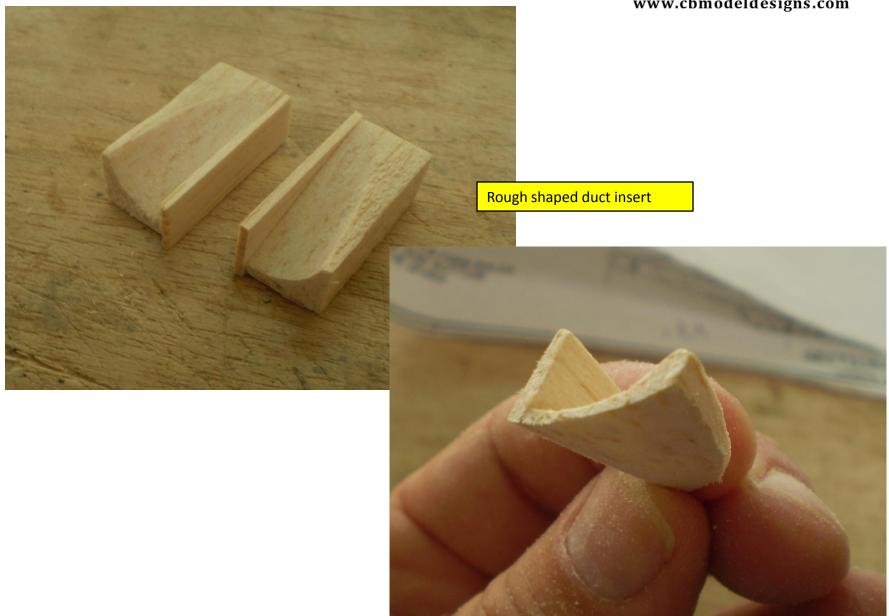
Ventral area to be faired in-fillers added



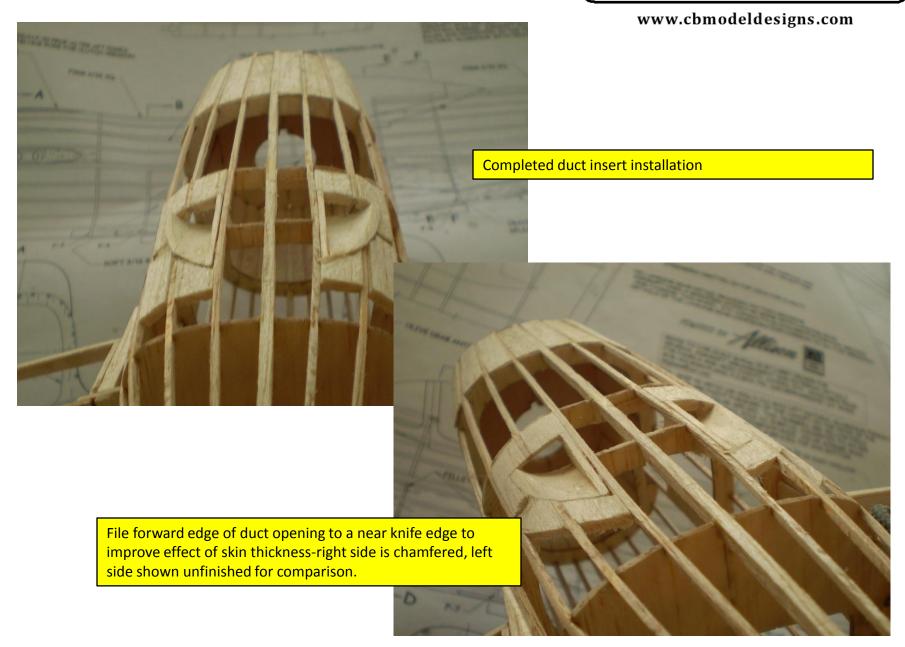












CB Model Designs

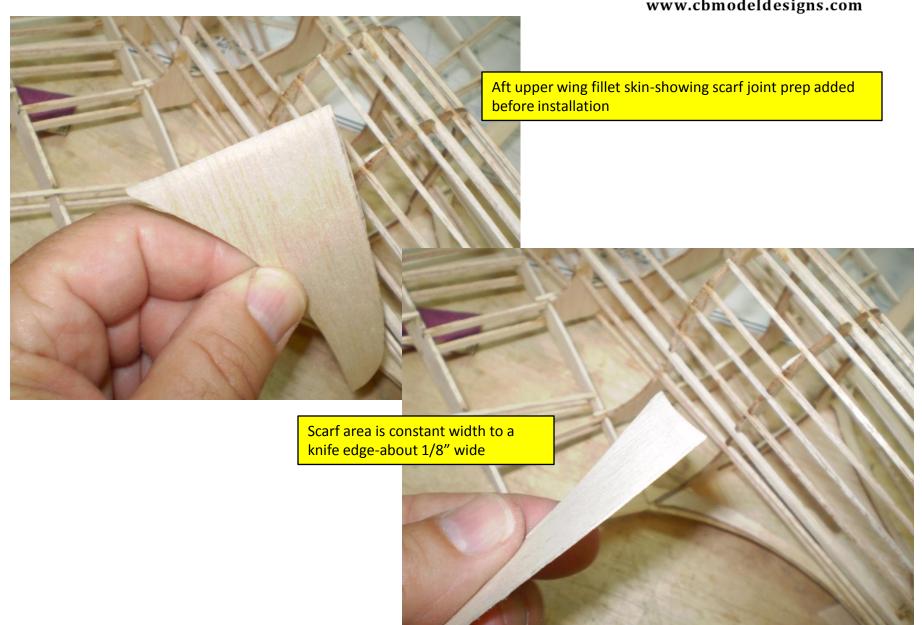


www.cbmodeldesigns.com

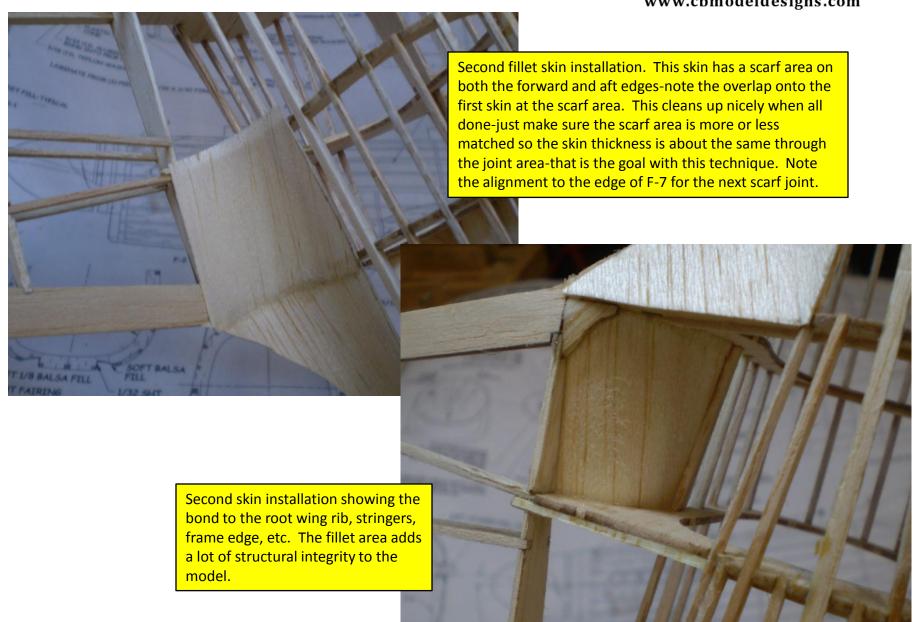


View from the top of the fuselage-inside of lower fillet skin attached to stringer and WF-1

Lower wing fillet skins installed





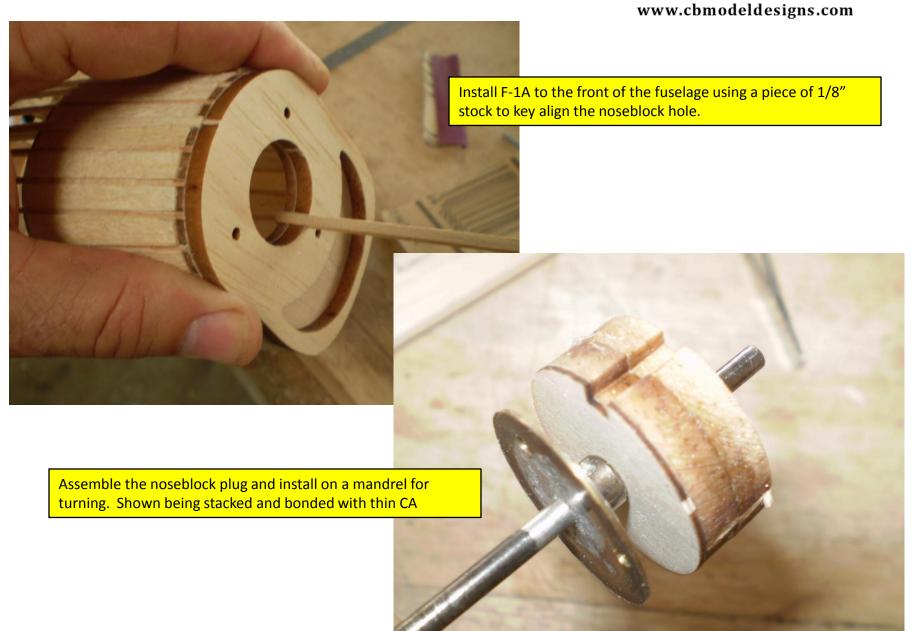


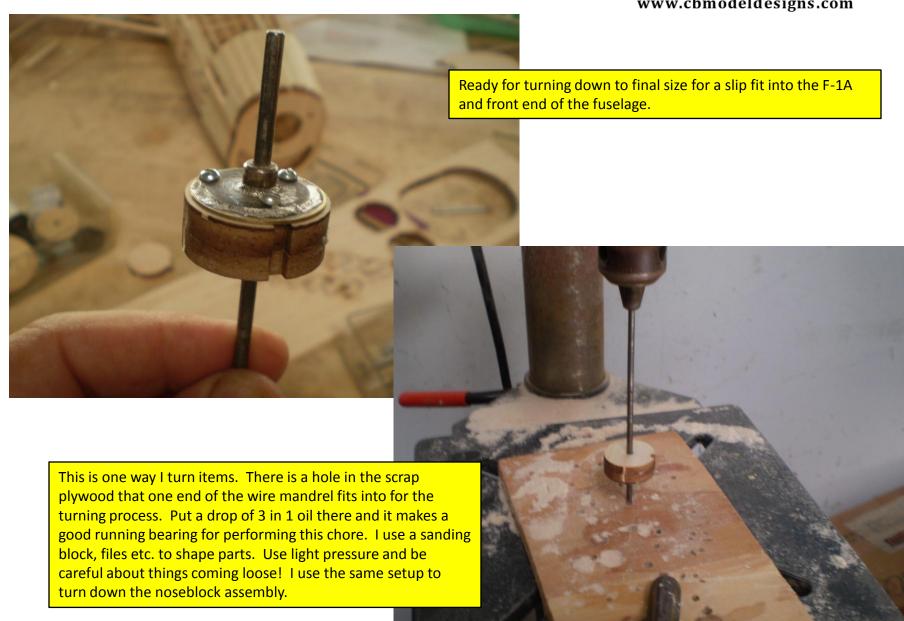


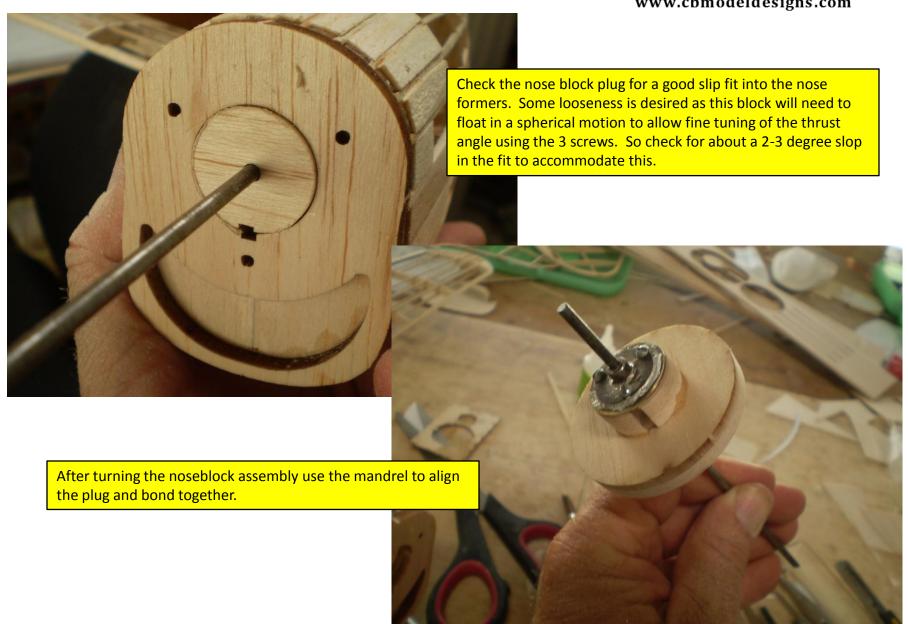




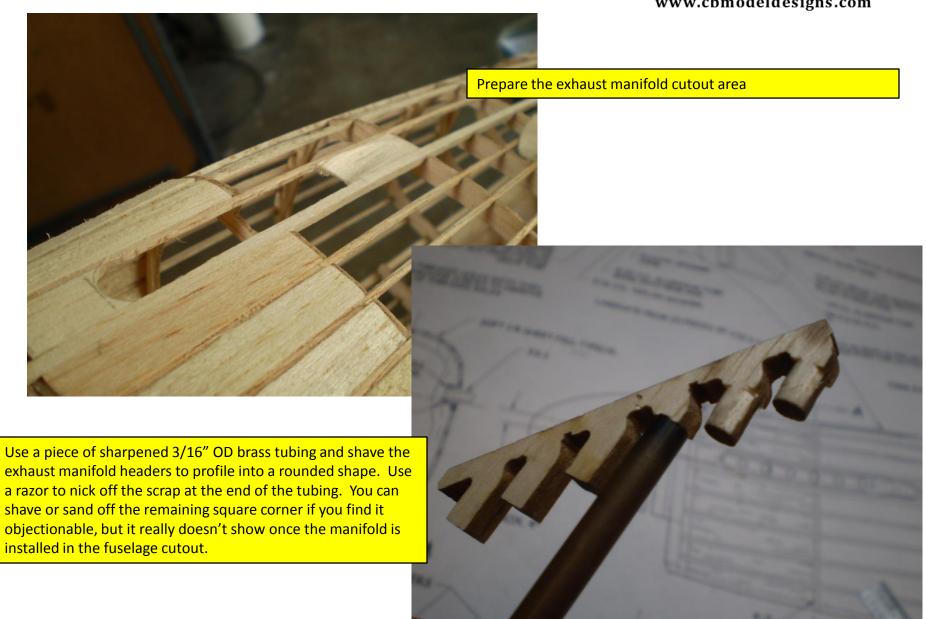




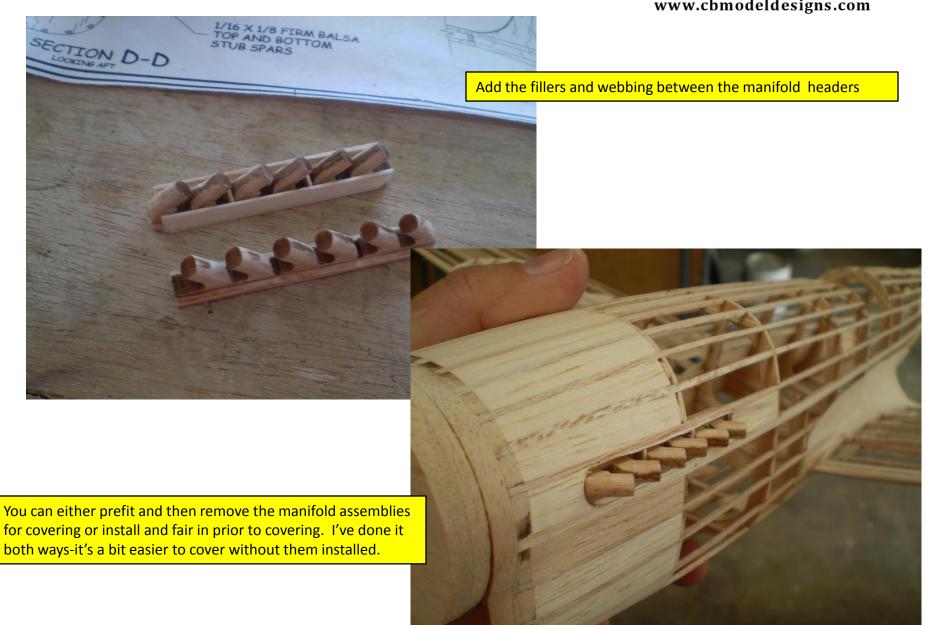




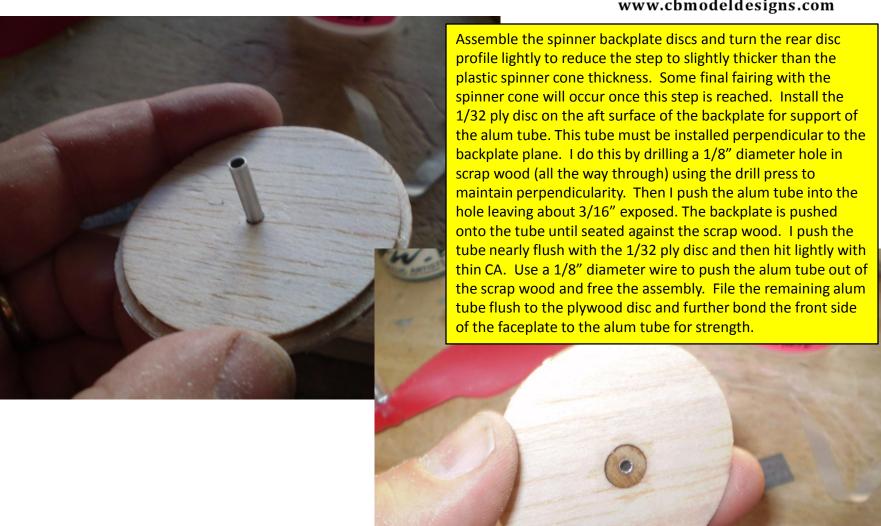




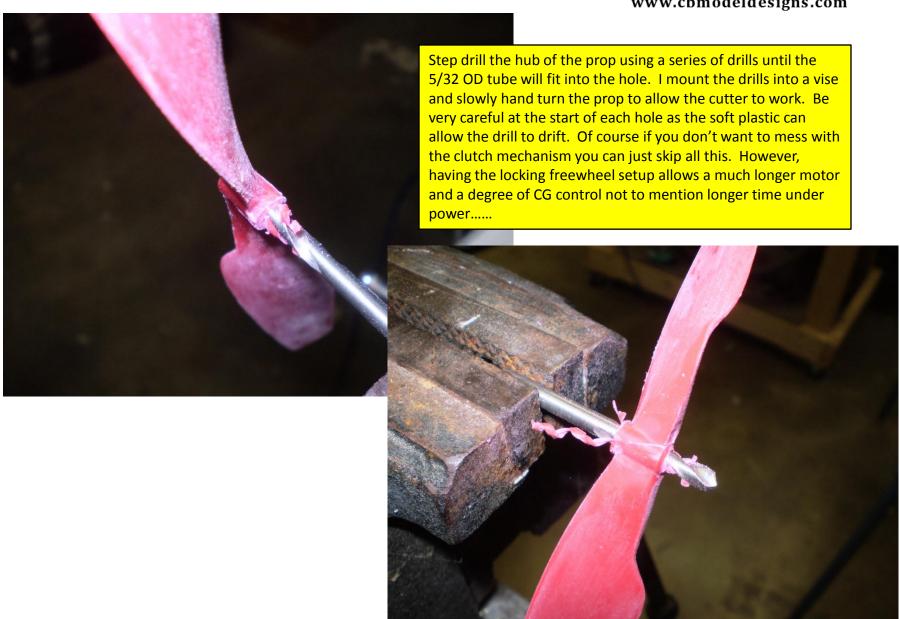
CB Model Designs



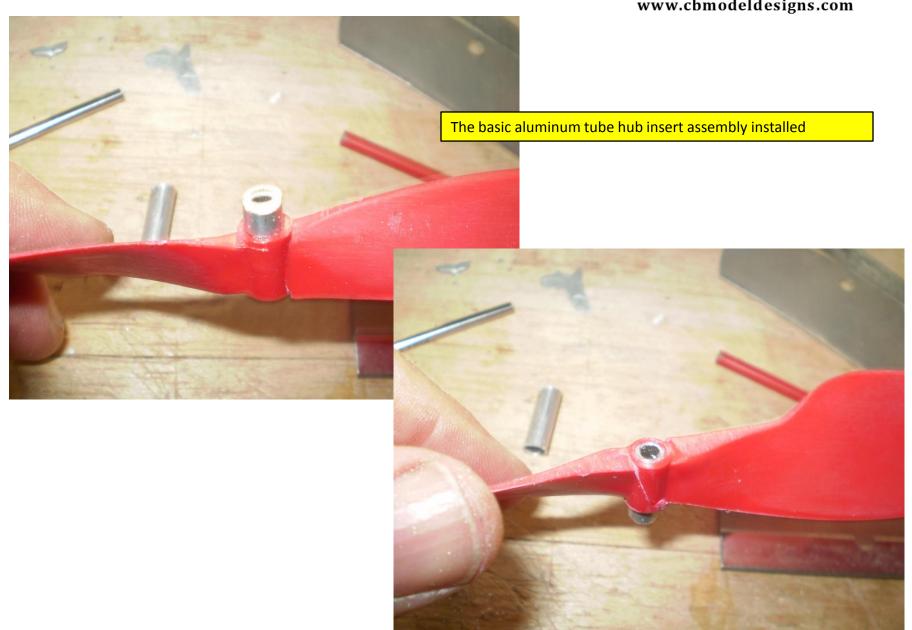




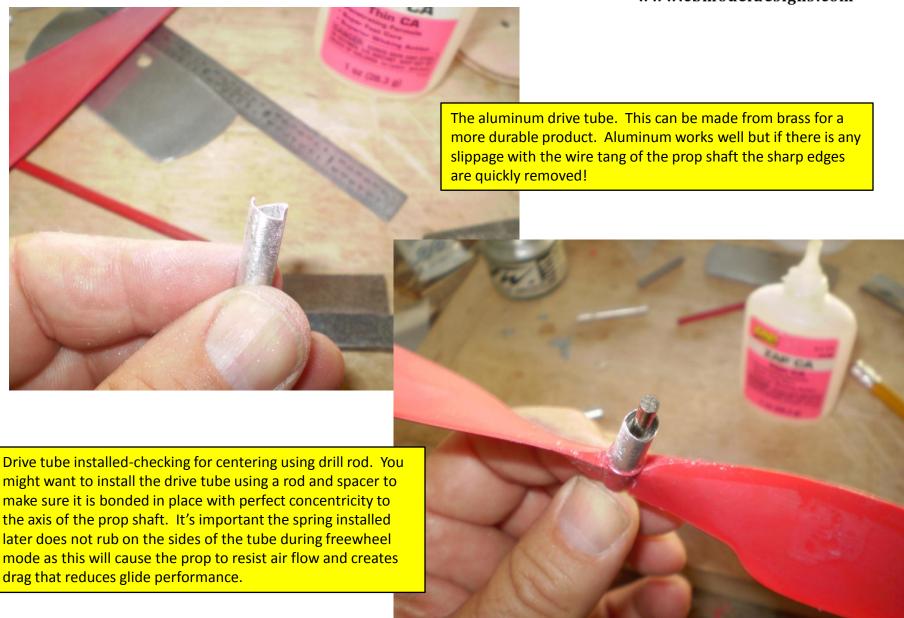




CB Model Designs



CB Model Designs



CB Model Designs



www.cbmodeldesigns.com

Jumpir assem Teflon at the shown alumin washe 3/32" the corpushin mediu compression of the compression of th

Jumping ahead-the prop is painted black and the noseblock assembly is finished, etc. Here you see the 3/16 diameter Teflon washer between the backplate and noseblock, the one at the bottom of the spring, the light compression spring. Not shown is the bushing noted on the plan. I made those from aluminum rod, but have also substituted with another Teflon washer on top of the spring, followed with a short piece of 3/32" diameter alum tube, about 3/16" long. You can adjust the compression on the spring a bit after the tang is formed by pushing the tube down the wire shaft and touching with some medium CA to hold location. Do this if the spring is not compressed enough to release the tang from the drive tube.

The tang is formed very carefully-you can see the 3/32 diameter tube directly under the tang. The spring should very lightly release the tang from the drive tube. An aggressive release will likely result in a pre-release under power which will be evident with a loud buzzing sound! You want the motor to run almost completely limp before the clutch releases-the rubber is still suspended between the hook and motor peg, but not very tightly. If it's slack and laying in the fuselage, correct by backing out the stop screw until you hit that sweet spot of just enough tension left to keep the motor in place and still release the clutch. It works-keep playing with adjustments. Usually problems are due to the spring being too strong under compression at the end of the motor run.