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Subject: 46 Lancer 850 - Dihedral Bracing (Part 1)

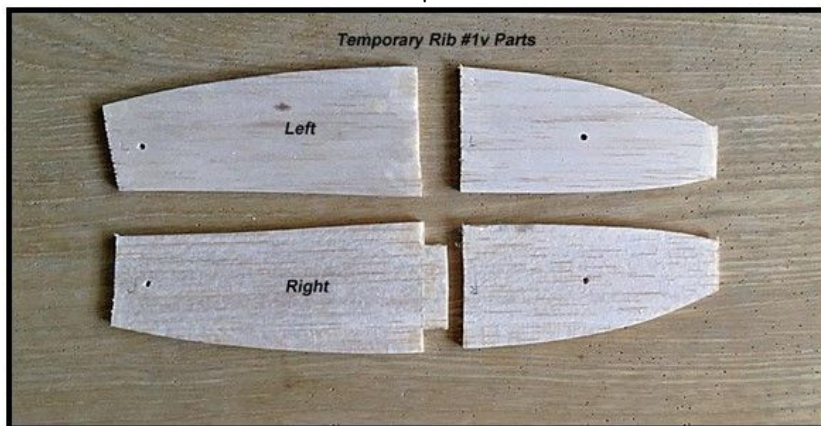
New Cyclone Lancer 850

January 27, 2018

In Report No. 24, the concept of a temporary #1v rib was introduced to maintain the LE, TE, and spar positions at the wing panel root only until wing panels were attached to the center section. The left and right panel's temporary #1v ribs are shown in the picture below. The four pieces of the ribs to be removed first are marked with an "X" in order to develop a pattern for the main spar's dihedral brace.



These are four pieces removed.



As you can see below, the removal of these pieces left the top and bottom 1/4" sq. spruce spars completely exposed between the two #2 ribs (if you remember the two #1a ribs were remove before the wing panels were joined to the center section). The 1/8" X 1/4" balsa braces were added between the top and bottom main spruce spars on either side of the center section to maintain the spar's separation now that the pieces of the #1v ribs are remove.



4/27/2018

A pattern shown below was developed for the main spar's dihedral brace using a sheet of 1/16" hard-balsa.



The pattern is continuous through the center section and extends out to each #2 rib as shown below. Notice that the pattern is on the rear face of main spars.



This picture shows the balsa pattern on the rear face of main spars.



The balsa pattern was then traced onto a sheet of 3-ply 1/16" birch plywood as shown below.



Work for the day was stopped at this point as Sue and I are attending a dinner party this evening and I have to start getting ready.....Tandy