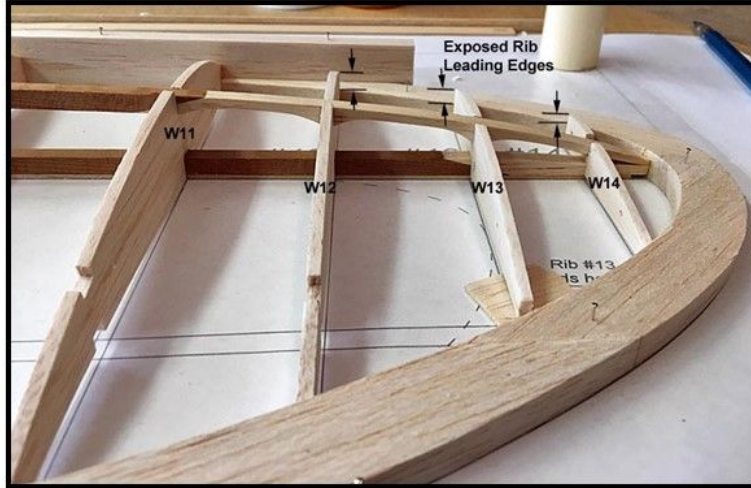


From: "Tandy Walker" <rd435021@icloud.com>  
 To: "Tandy Walker" <rd435021@icloud.com>  
 Date: 1/8/2018 9:43:09 PM  
 Subject: 32 Lancer 850 - Contouring Right Wing Tip

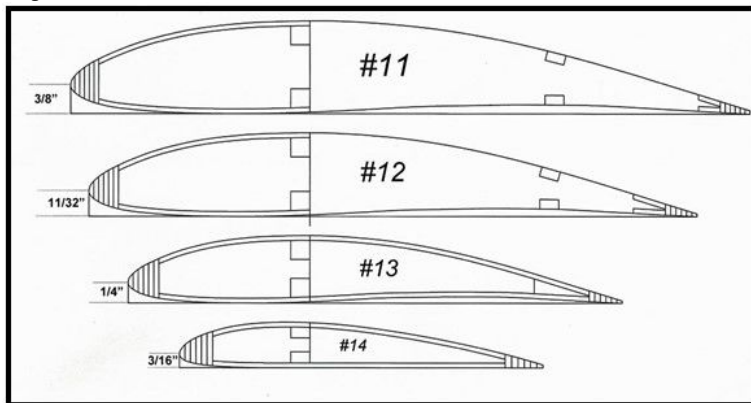
*New Cyclone Lancer 850*

*January 8, 2018*

I have been reluctant to proceed with work on the right wing panel because of the uncertainty on just how to develop a smooth integrated wing tip. First of all, the forward part of ribs W12, W13, and W14 had to be cut back when they were glued in place. This left a front portion of the ribs exposed as you can see below.



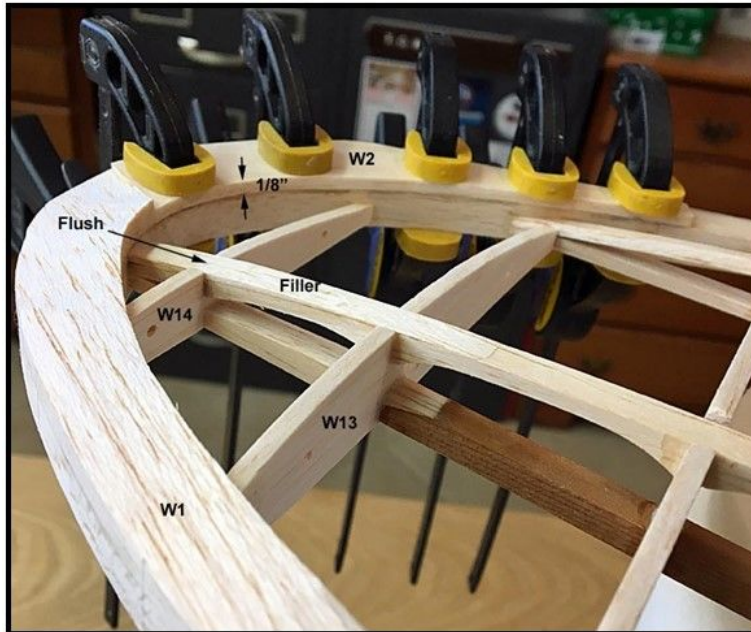
Now the leading edge center line is 3/8" above the work table at rib #11 and drops down to 3/16" at rib #14 as shown below on the ACDC rib drawings.



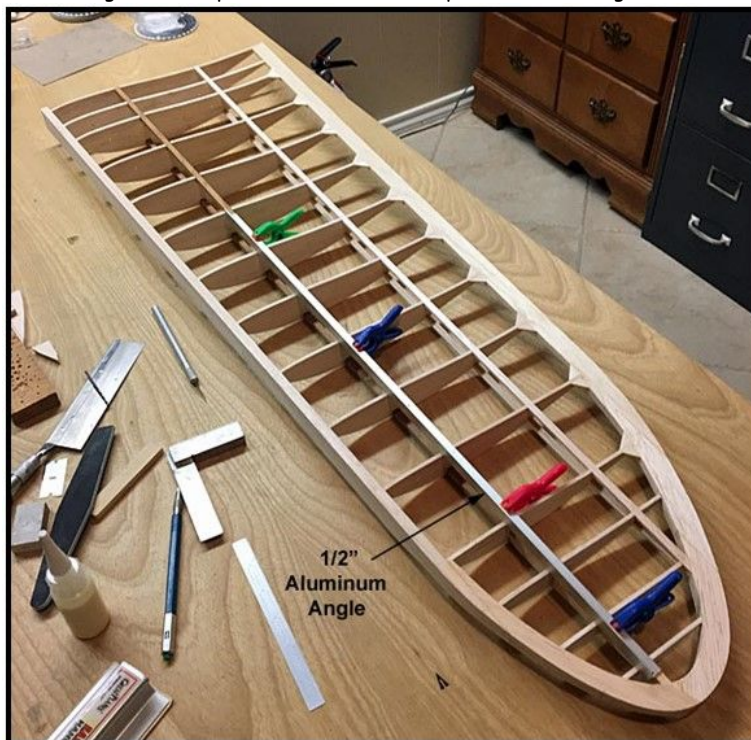
Therefore, another 3/8" W1 tip piece was glued on top of the wing tip as shown below in order cover the exposed three ribs.



In addition, a second W2 tip piece 1/8" thick was glued on top of the wing tip as shown below in order provide enough tip thickness behind the main spar to contour in smoothly. Notice also that a tapered piece of 1/16" X 1/4" balsa was added to the top of main spar to bring it up flush with the top of the W14 rib.



However, it was noticed that the bend in the top main spar had actually pulled the tip up about a 1/16". To correct this deformation, a 1/2" aluminum angle was clamped to the bottom main spar to hold it straight out at the tip as shown below.



Then two 1/4" balsa filler blocks were cut out to fill in between top and bottom spar openings. These were glued in place with aliphatic glue between ribs W11-W12 and W12-W13 as shown below. Once these filler blocks thoroughly dry overnight, the bottom main spar and wing tip should remain straight. The two holes in the filler blocks are for venting between compartments.....Tandy

