

From: "Tandy Walker" <rd435021@icloud.com>

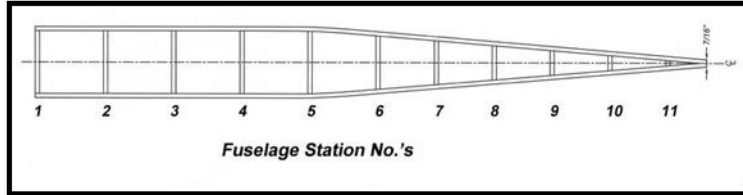
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Date: 2/26/2018 4:30:35 PM

Subject: 73 Lancer 850 - Joining the Two Sides (Part 2)

Report No. 73  
*New Cyclone Lancer 850*  
 February 26, 2018

The fuselage station numbers 1 through 11 are defined in the frame's top view drawing below.



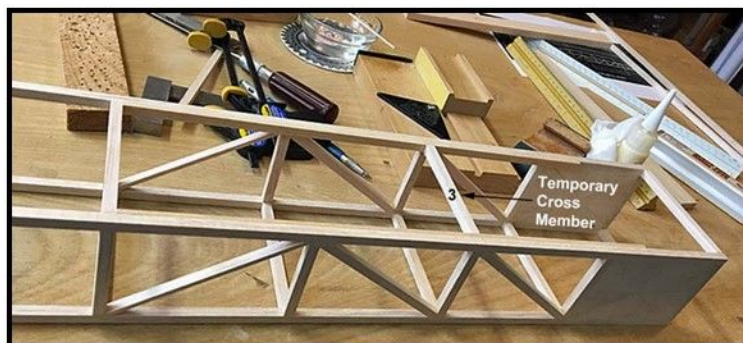
Yesterday whole series of weights, squares, blocks, and planks were used to jig the two sides together with the two cross members at Sta.'s 1 and 5 as shown below and left to dry overnight.



This morning 1/4" sq. cross members 2, 3, and 4 were glued on the bottom longerons as shown below.

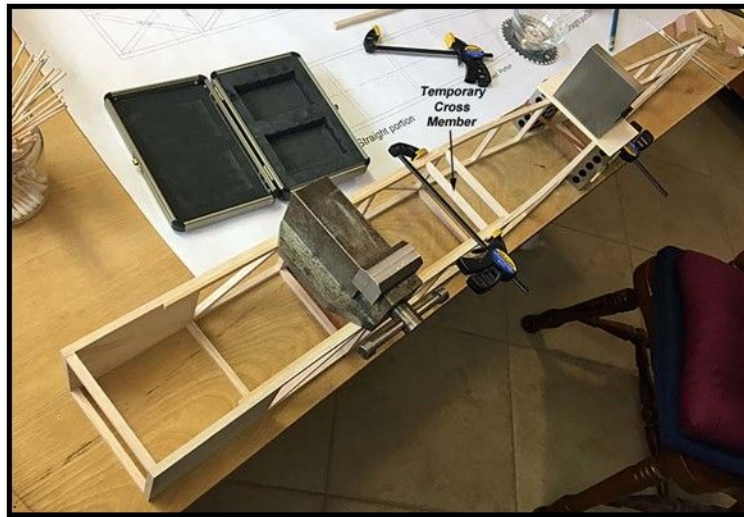


In addition, a temporary cross member was glued in between the spruce doubles at Sta. 3 on the top longerons as shown below. This cross member should minimize any bowing of the top longerons when the aft portion of the fuselage frame is pulled together and will be removed later on in the construction.

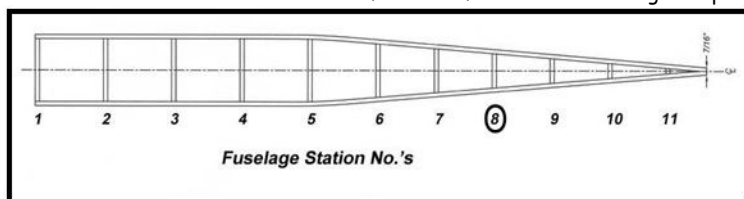


After the forward cross members were dry, it was time to bend and pull together the aft portion of the fuselage's sides. First the aft end of the two sides were tapered inside by sanding so that together their width measured 7/16" as was shown on the drawing. The sides already joined in the front were placed on the work table and weighted down with small

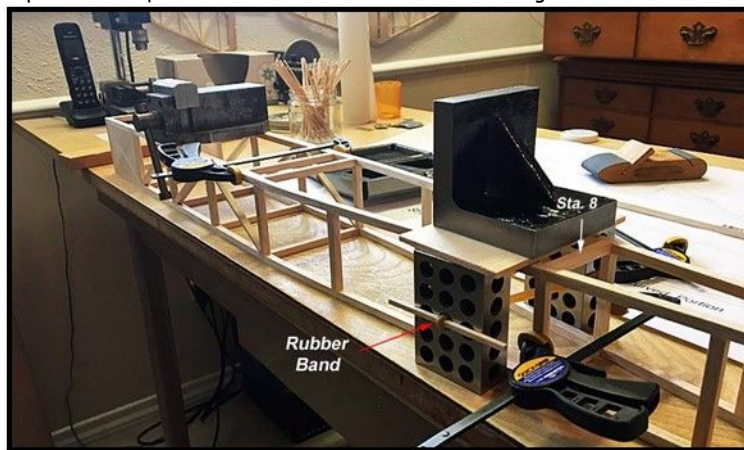
heavy steel vise. Another temporary cross member shown below was clamped in place, but not glued to prevent the top longerons from bowing when the aft portion of the fuselage frame was pulled together.



Sta. 8 shown below was selected as the first set of cross members to glue in place.



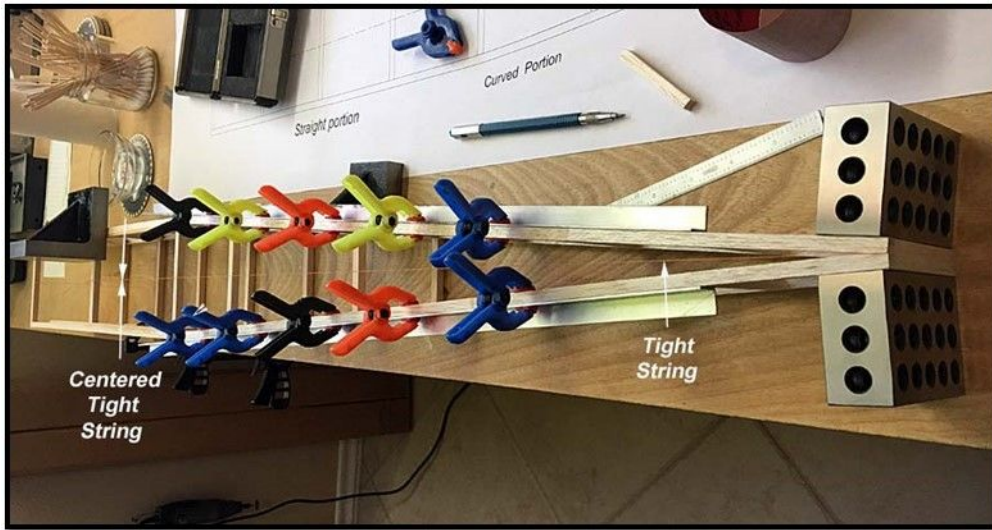
The two 1/4" sq. cross member for Sta. 8 were cut with the ends beveled to fit the slope of the sides. A Quick-Grip clamp was used to hold the sides together while the both cross members were glued in place using aliphatic glue. While the glue was still wet, precision 1-2-3 steel blocks were placed on each side and rubber banded together as shown below. The a piece of 1/8" sheet balsa was placed on top of the two blocks and a 3" steel square block was placed on top for weight. The whole purpose was keep the sides square and vertical while the cross member glue dried.



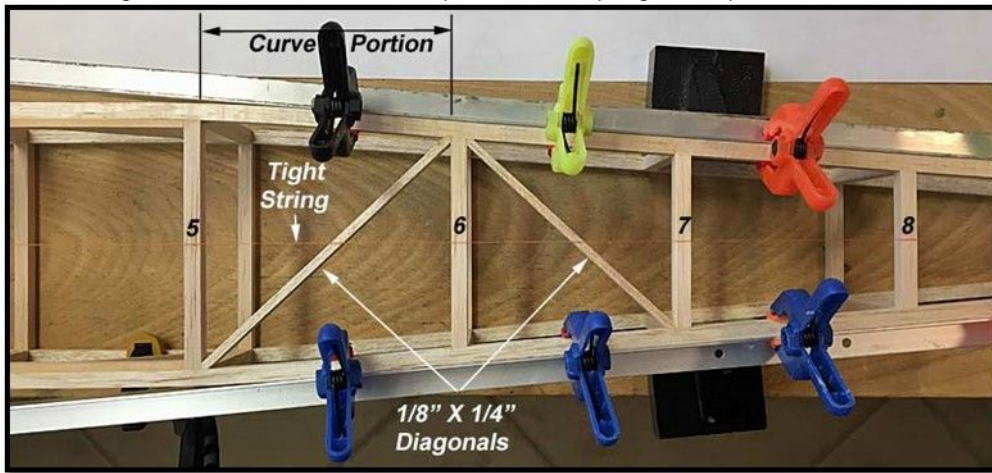
A 1/2" aluminum angle was clamped on the top longerons to hold them straight from Sta. 6 through 11 as shown below and then the sides were clamped to the work table. The pair of precision 1-2-3 steel blocks were placed up against the tail post and adjusted to center orange thread tight string.



This close up of orange thread tight string shows the final adjustment of the precision blocks to line up the tail post. Only the top of the tail post was spot glued at this time.



Two 1/8" X 1/4" diagonals were used to lock the curve portion of the top longerons in place as shown below.



Tomorrow, the frame will be turned over and the bottom longerons worked on.....Tandy