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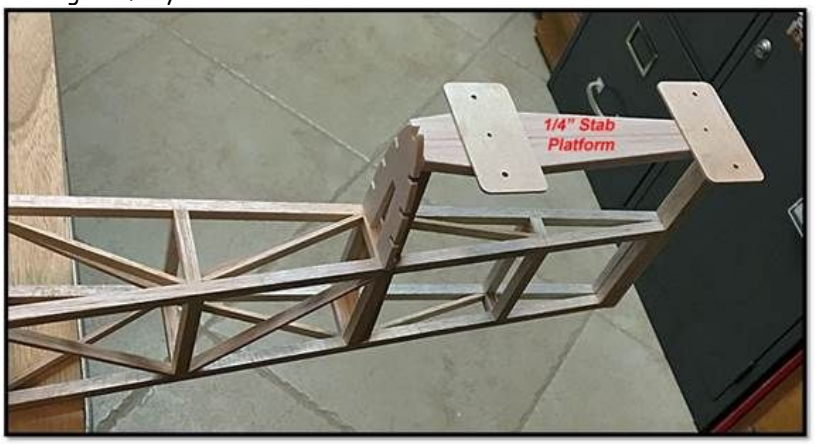
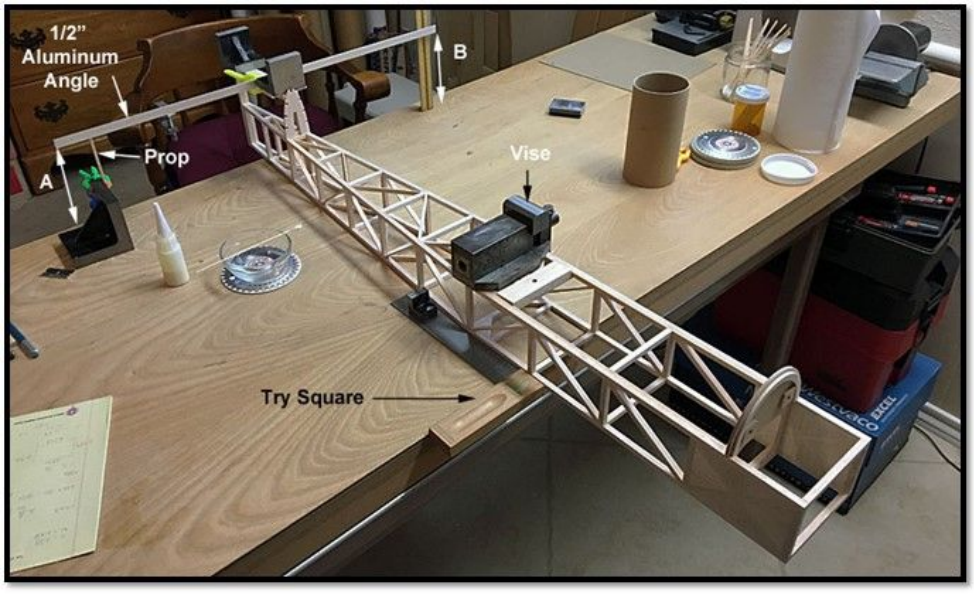
Date: 3/26/2018 1:50:24 PM
Subject: 96 Lancer 850 - Design of the Fuselage's Stab Mounting Structure (Part 5)

Report No. 96
New Cyclone Lancer 850
March 26, 2018

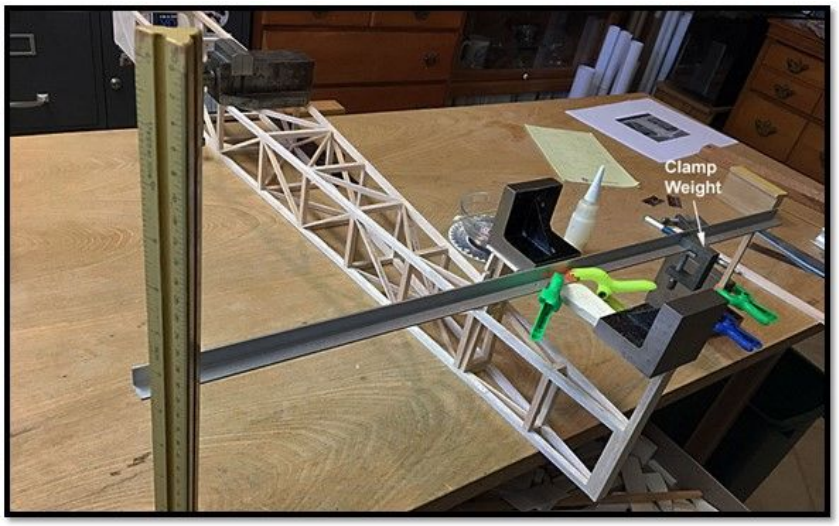
The stab platform was cut out of 1/4" sheet balsa and sanded to shape. It was place on top of the A-Frame and tail post, but not glued as shown below. The two 1/16" plywood stab mounting plates were also paced on top of the platform, but not glued for you to see below.



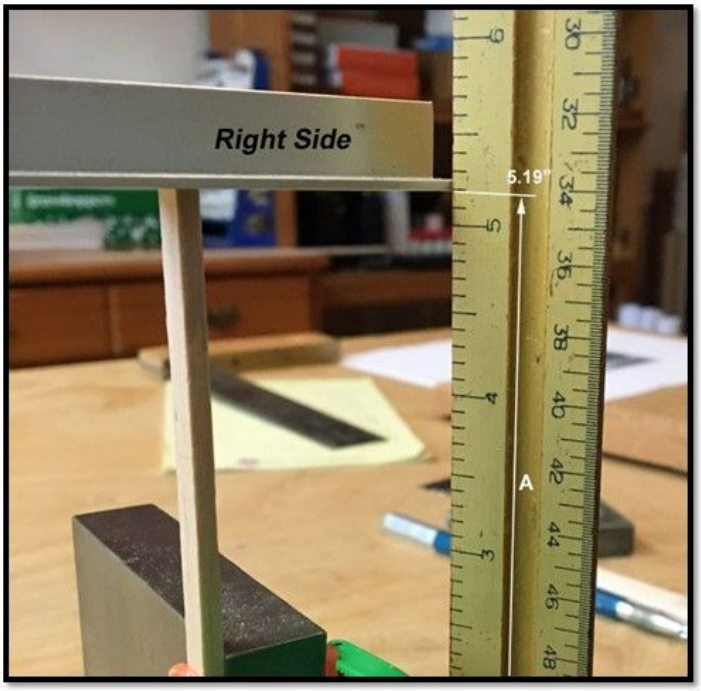
A jig set up had to be developed in order to position the stab platform straight on the tops of the A-Frame and tail post structural supports. First, the fuselage was placed across the work table and weighted down with a small heavy steel vise. A 24-3/4" long 1/2" aluminum angle was centered and clamped crosswise on the stab platform. A prop was made by clamping a balsa stick vertically to a 3" steel block square and placed under the aluminum angle as shown below. Two 2" steel block squares were used as weights fore and aft on top of the stab's platform. The prop was adjusted until the height (A) was equal to the height (B).



Then the stab platform was removed from the jig so that the top of the A-Frame and tail post could be pre-glued with aliphatic glue. Glue was applied to the stab platform, which was then put in place. The jig was quickly reassembled while the Titebond Extend wood glue was still wet. Notice the clamp attached to the right side of the aluminum angle that was used for weight to keep the angle down against the prop.



The adjusted (A) measurement on the right side was 5.19" as shown below.



The (B) measurement on the left side was 5.18" as shown below, which is well within my building accuracy. This jig setup will be left alone for the rest of the day to allow the glue to thoroughly dry.....Tandy