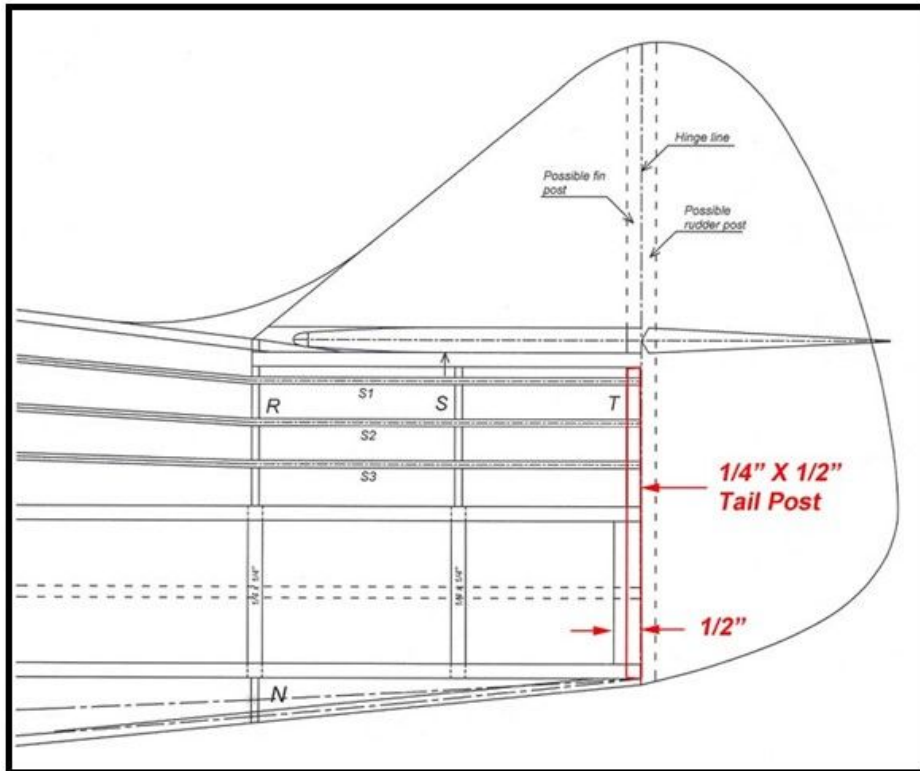


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 Date: 3/24/2018 2:18:39 PM  
 Subject: 94 Lancer 850 - Design of the Fuselage's Stab Mounting Structure (Part 3)

Report No. 94  
*New Cyclone Lancer 850*  
 March 24, 2018

The vertical end member glued in the fuselage structure is a 1/2" wide. By cutting off the end of the fuselage frame a 1/4", a continuous tail post can run from the bottom of the fuselage frame up to the bottom of the stab mounting platform as shown below. This provides significant support to the tail post.



The 1/2" vertical member at the end of the fuselage frame was marked a 1/4" from the end as shown below.



The end of the frame was carefully cut off and sanded to the marked line as shown

4/28/2018

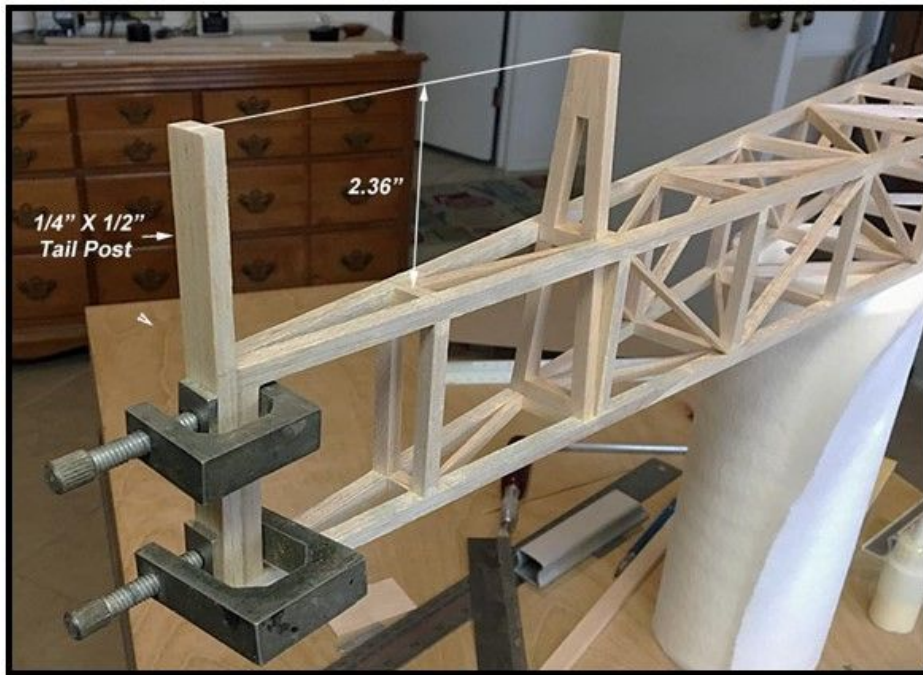
below.



A check was made with a metal square to insure that the 1/4" width remaining was still square with the longerons as shown below.



A 1/4" X 1/2" tail post was cut from a 1/4" sheet of medium hard balsa. After pre-gluing both surfaces with aliphatic glue, the tail post was glued and clamped in place with two very old X-Acto metal clamps as shown below. Great care was taken to insure that the tail post was aligned vertically with the fuselage frame and that the distance from the top longerons up to the top of the tail post was 2.36" which matches the height of the front A-Frame as shown below.



The stab platform will be a 1/4" thick base on which the two 1/16" plywood stab mounting plate will be glued. The rest of the stab platform will be filled in with 1/16" sheet balsa. Due to the addition of the two 1/16" mounting plates, a 1/16" must be trimmed off of the top S and T bulkheads as shown on bulkhead T below. This is why the distance from the top longerons up to the top of the tail post, and also the A-Frame is  $(2.42" - 1/16") = 2.36"$  instead of 2.42".....Tandy

