

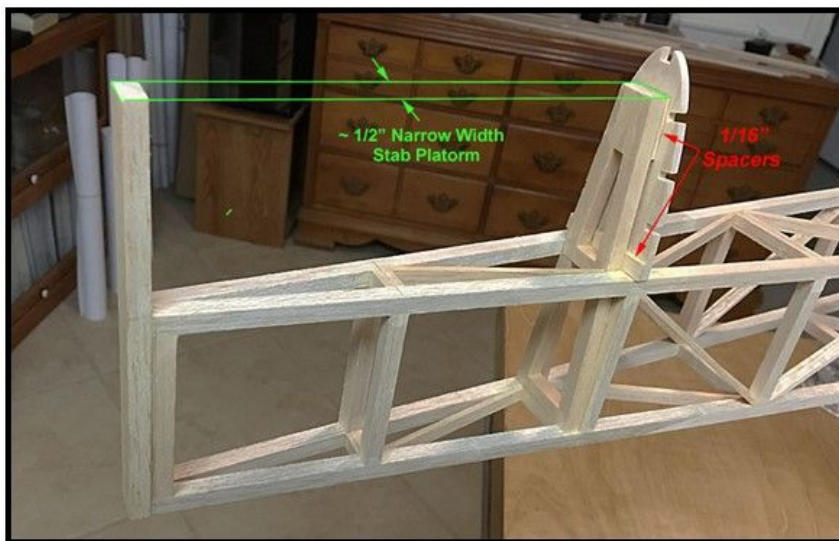
From: "Tandy Walker" <rdb435021@icloud.com>  
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 Date: 3/26/2018 12:35:40 PM  
 Subject: 95 Lancer 850 - Design of the Fuselage's Stab Mounting Structure (Part 4)

Report No. 95  
 New Cyclone Lancer 850  
 March 26 2018

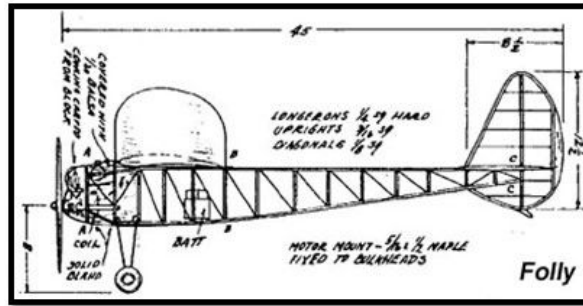
Yesterday the "R" bulkhead was cut out and part of its center was removed for the elevator push rod to pass through as shown below.



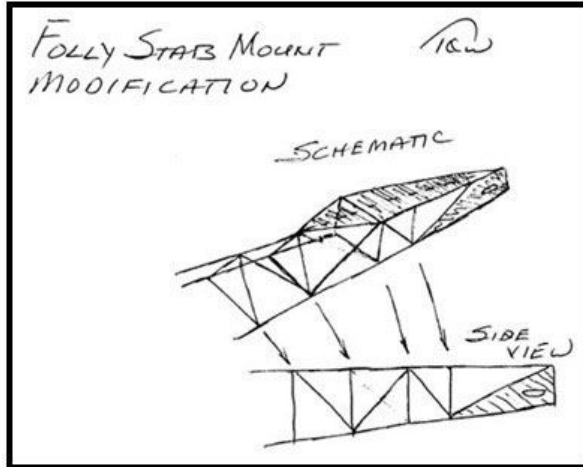
1/16" spacers were put in between the R bulkhead and the A-Frame when they were glued together in order to center the 1/8" R bulkhead over the 1/4" vertical upright as you see below. I had serious concerns over the stab platform's narrow width available to mount the removable stab illustrated in green below.



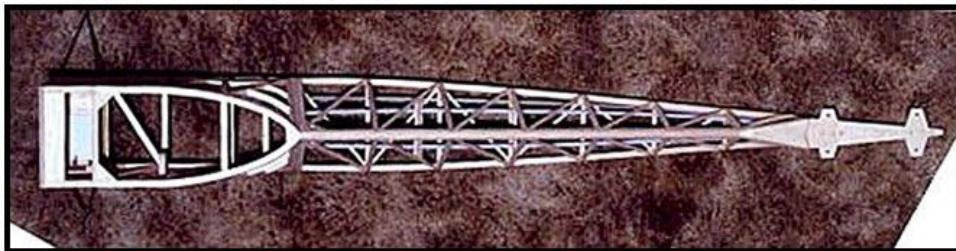
I encountered a similar situation with the 1937 Folly shown below built for the SAM Ohlsson Sideport Event in 1999. The flat bottom fuselage structure had a triangular cross section and plans did not show how the stab was to be mounted to the single top longeron ?



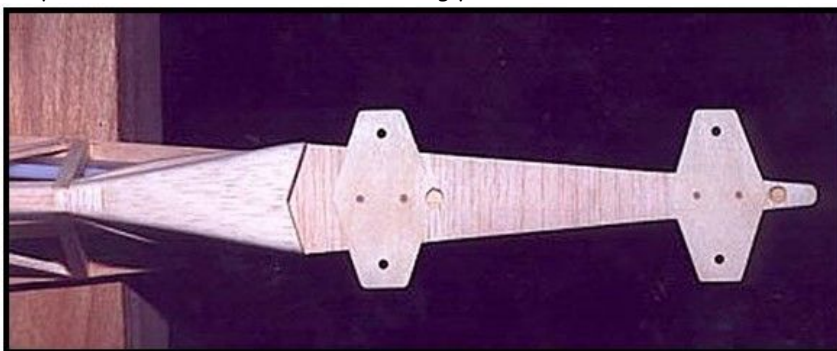
It was necessary to come up with a structure that provided a platform suitable to mount the removable stab on. The sketch below shows a schematic of the resulting structure that was developed.



This is a top view picture of the of the completed fuselage structure showing the stab platform.



A close up stab mount shows the two mounting plates used to attach the removable stab.



Using the Folly approach, the stab platform width was increased to 1.30" at the front mounting plate holes. The cardboard cutout below shows the dimensions of the 1/4" thick stab platform.....Tandy

