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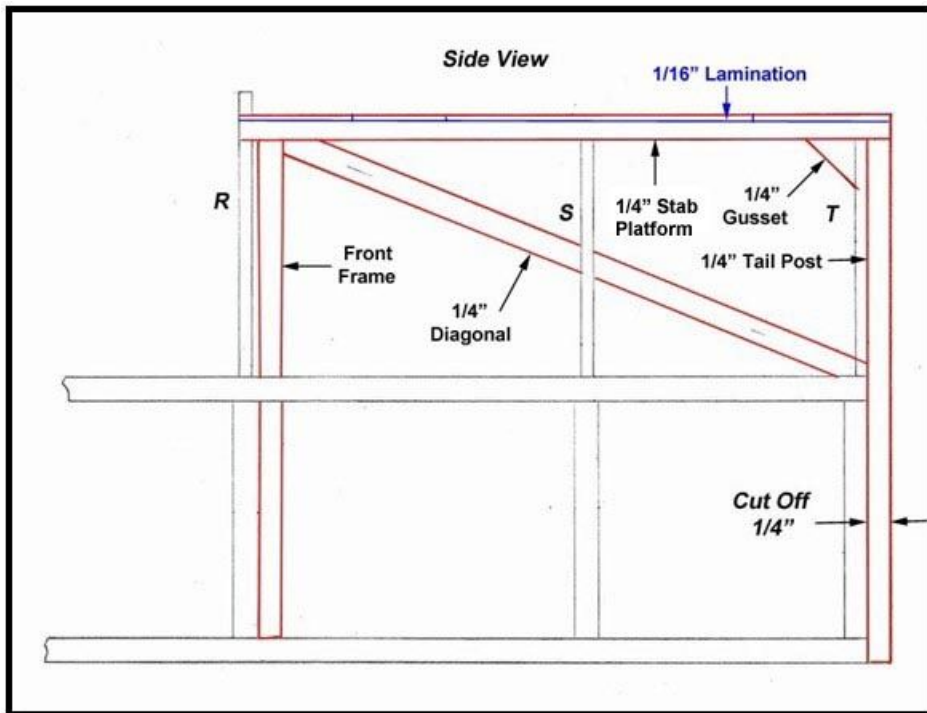
Subject: 92 Lancer 850 - Design of the Fuselage's Stab Mounting Structure (Part 1)

Report No. 92

New Cyclone Lancer 850

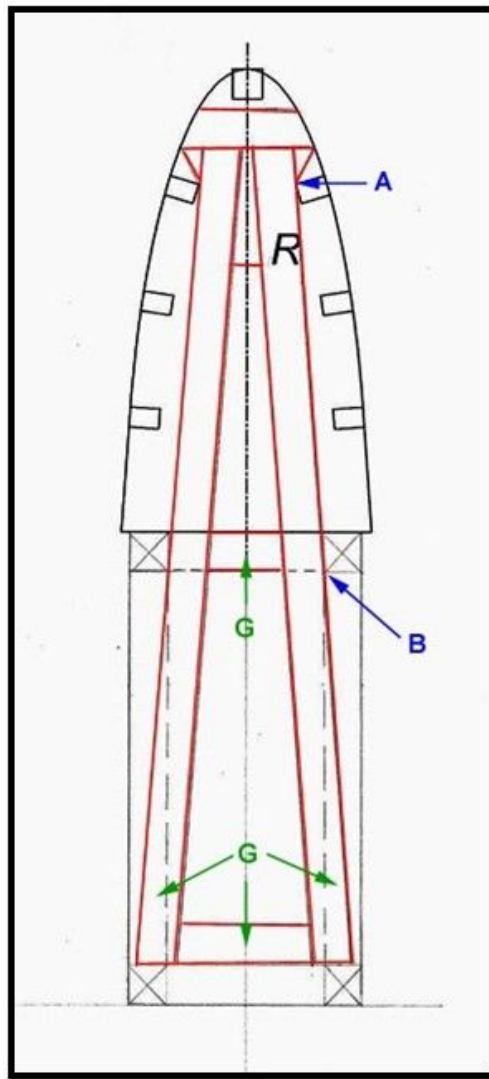
March 23, 2018

I have spent an afternoon coming up with what I think is a good design of the fuselage structure for the supporting the stab mount. A sketch of the side view is shown below. Notice that first a 1/4" is removed off of the rear of the existing fuselage's primary 1/4" sq. frame work as shown below. Then a 1/4" thick tail post with a "T" width would be glued on to the rear of the fuselage's structure reaching up to the stab's platform. There would be a 1/4" gusset in the corner as shown below. The stab platform has a 1/4" thick base on which the two 1/16" plywood stab mounting plate are glued. The rest of the stab platform is filled in with 1/16" sheet balsa.



The front frame is an "A-Frame" structure shown below. It's geometry is dictated in width constrained by points A and B shown below. The A-Frame is glued in 4 places shown by "G" in the picture below. Finally a 1/4" diagonal runs from the top of the A-Frame down through the "S" bulkhead to the tail post as shown the side view drawing above.

Front A-Frame



This shows the 1/4" sq. front A-Frame glued together and pinned down on the sketch. The bottom overhang will be sanded off flush after the A-Frame is unpinned and removed.....Tandy

