

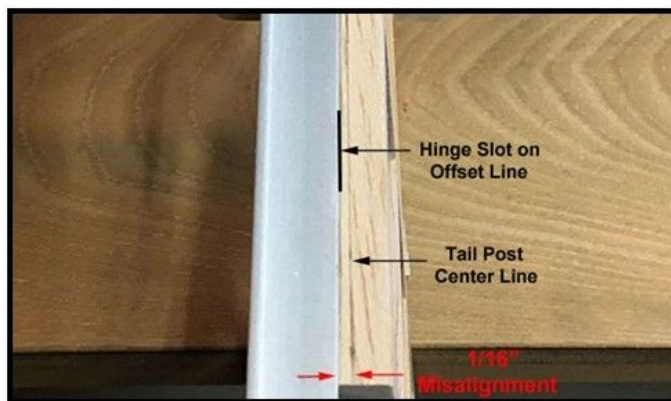
From: "Tandy Walker" <rdb435021@icloud.com>
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Date: 4/9/2018 12:18:15 PM
Subject: 108 Lancer 850 - Reworking The Tail Post (Part 2)

Report No. 108
New Cyclone Lancer 850
April 8, 2018

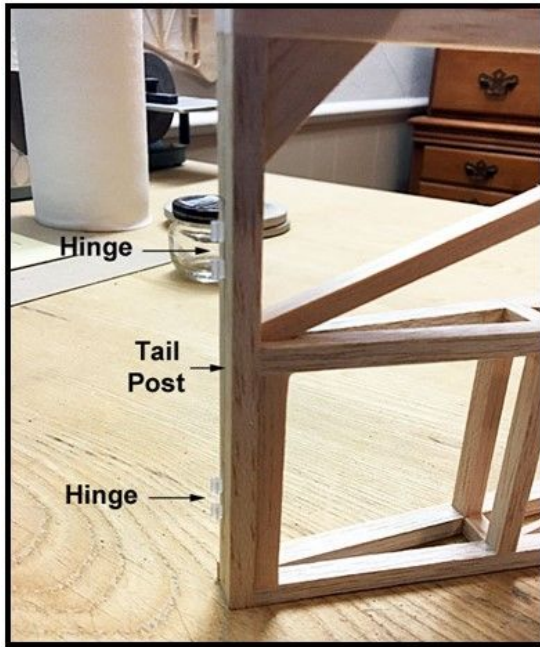
This report deals with the modifications necessary to correct the fuselage's misaligned tail post with the fin center line shown below.



This morning the hinge slots were located on the fuselage's tail post to match those on the rudder and cut in along the offset line shown below.



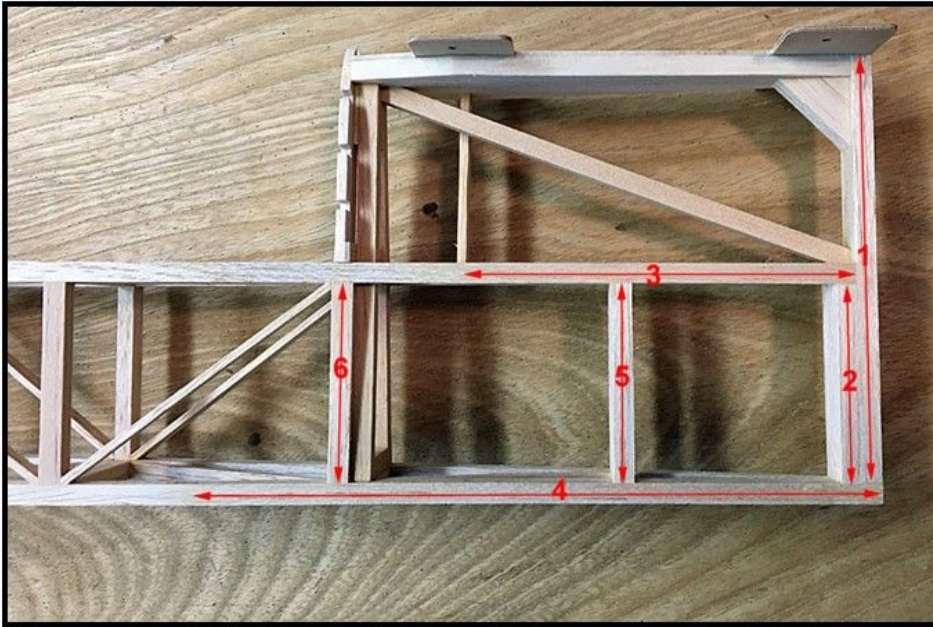
The tangs on the two hinge halves were cut down to 1/4" and inserted in the tail post as shown below.



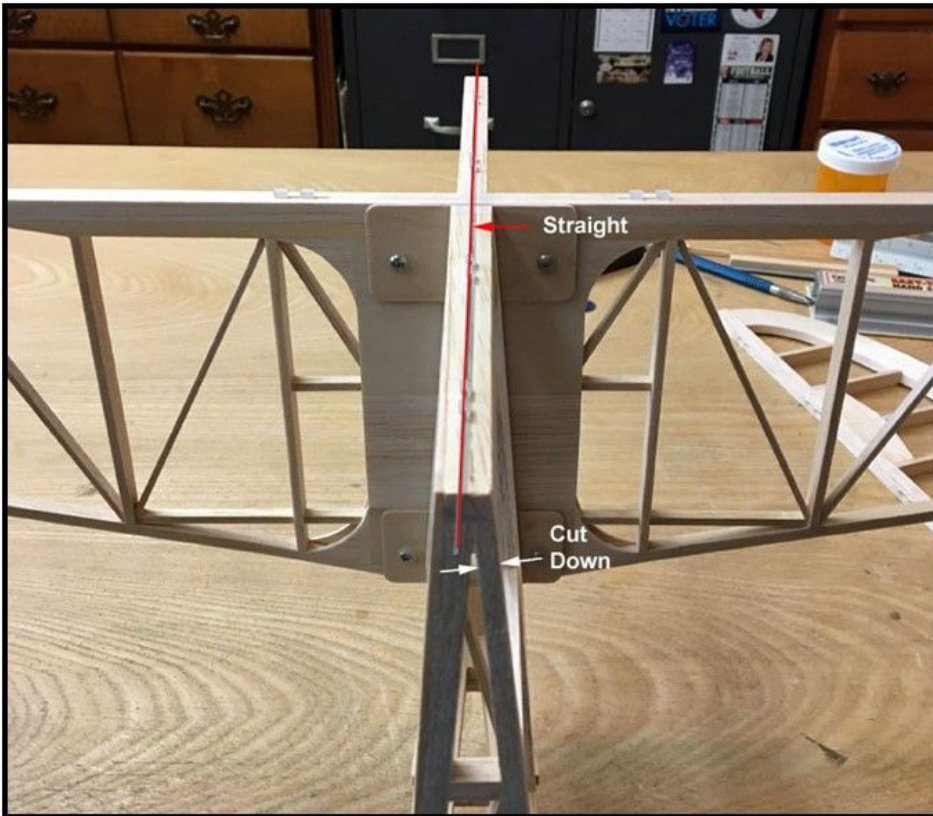
The tail assembly was mounted on the fuselage's stab platform and rudder was attached by inserting a continuous 0.031" hinge pin wire through the four hinges as shown below. A strip of 1/16" X 1/4" balsa was glued on the outside of the left bottom longeron as you can see below. As it turned out, a 3/32" piece would have been too thick.



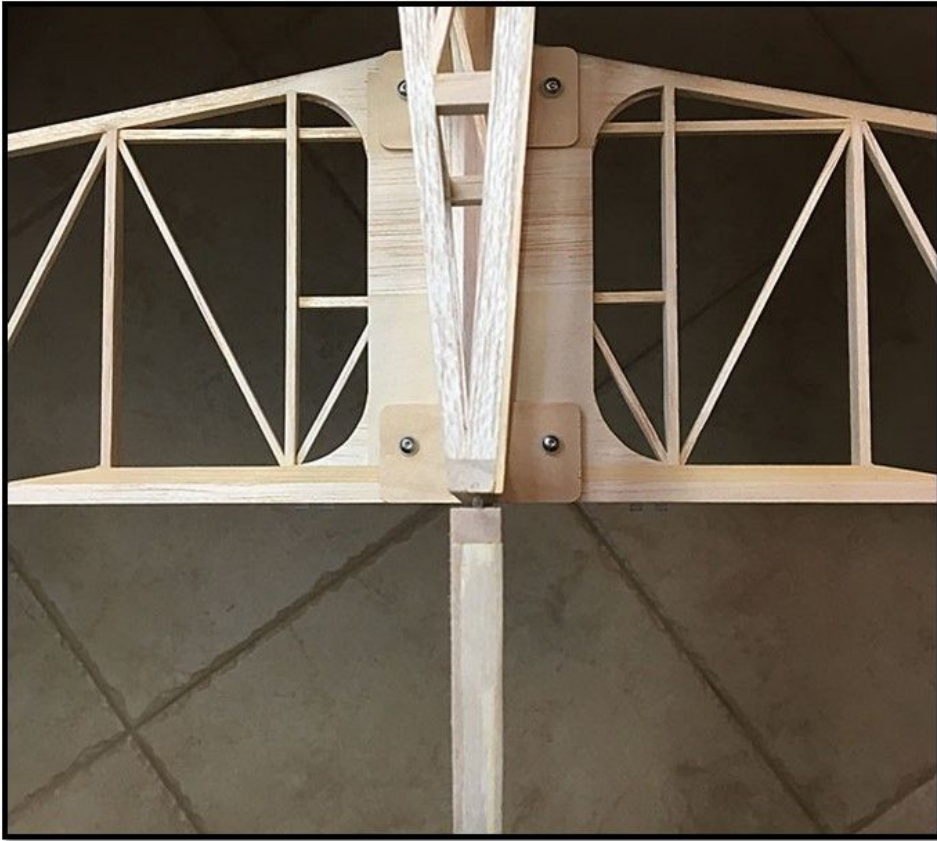
To build up the left side of the tail post, a total of six 1/16" X 1/4" strips were glued on the outside of the fuselage structure as shown in red below. By extending the strips forward (i.e., No.4), the buildup started out a 1/16" at the tail post and then feathered into the structure at the forward end, which helped to disguise the misalignment correction. Also strip No. 1 started out a 1/16" at the bottom of the tail post and then feathered into the structure at the top.



The right side of the fuselage was carved and sanded down a 1/16" at the bottom of the tail post as you can see, but not up at the top. All of these modifications successfully eliminated the tail post misalignment, which aligned it with rudder's straight hinge line as shown in red below.



This bottom view picture shows the tail post is now correctly aligned with the rudder.



I had a difficult time trying to describe the modifications to correct the tail post misalignment. Hopefully with the aid of the pictures you can understand what was done.....Tandy