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Subject: 107 Lancer 850 - Hinging the Rudder and Reworking The Tail Post (Part 1)

Report No. 107
New Cyclone Lancer 850
April 7, 2018

Once it was determined that the fuselage's tail post was misaligned off of vertical as shown below, it was necessary to go back and rework the fuselage's aft structure to correct the misalignmnet.



It seemed prudent to use the rudder hinged to the fin as a tool to more accurately quantify the misalignment. First the location of the two Klett hinge halves was determined on the fin's trailing edge and the hinge halves installed as shown below.



The two hinge locations were transferred to the rudder and the hinge halves installed as well as the two lower hinge halves as shown below.



This picture shows the rudder attached to the fin with a continuous hinge pin wire.



The fin was attached to the stab which was then mounted on the fuselage's stab platform. The rudder was attached to the fin with the continuous hinge pin wire as shown below.



The fuselage was placed upside down on the work table and this picture was taken to show the actual location of the rudder's center line, defined by the hinge pin wire, relative to the center line of the fuselage's tail post. The misalignment turned out to be slightly greater than a $1/16$ ", but less than $3/32$ ", so call it $5/64$ ". Therefore, $3/32$ " balsa strips will be used to build-up on the left side of the fuselage.....Tandy

