

IMMEDIATE ACTION

SERVICE



BULLETIN

NUMBER 8

Rev. Date: 2-18-46

SUBJECT: Reinforcement of Stabilizer Yokes

MODELS AFFECTED: E2 and F2 Cubs

It has been brought to our attention that a certain Model E2 of early manufacture had in it a stabilizer adjustment yoke which did not quite conform to the approved drawings with regard to an internal reinforcement.

Due to the ever-present possibility of fatigue cracks occurring in the vicinity of a welded joint, it is in the interest of safety that the reinforcement in question should be adequate. It is therefore necessary, in the case of every E2 or F2 "Cub" now in service, that the stabilizer adjustment yoke be inspected for conformity with the approved drawing, and have additional reinforcement added if the present one is unsatisfactory.

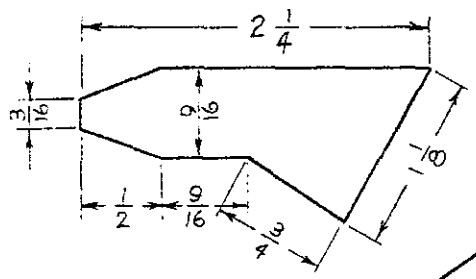
To facilitate this procedure, we are issuing herewith a drawing to act as a guide both to the inspection of the part and to the method of repair.

It will be seen, upon examination of the yoke at the joint located just outside the fuselage, that there is a welded seam lengthwise of the tubing on both top and bottom. These seams indicate where an internal gusset, as shown at "A" in the sketch, has been inserted in slots in the tubing and welded in place at these slots.

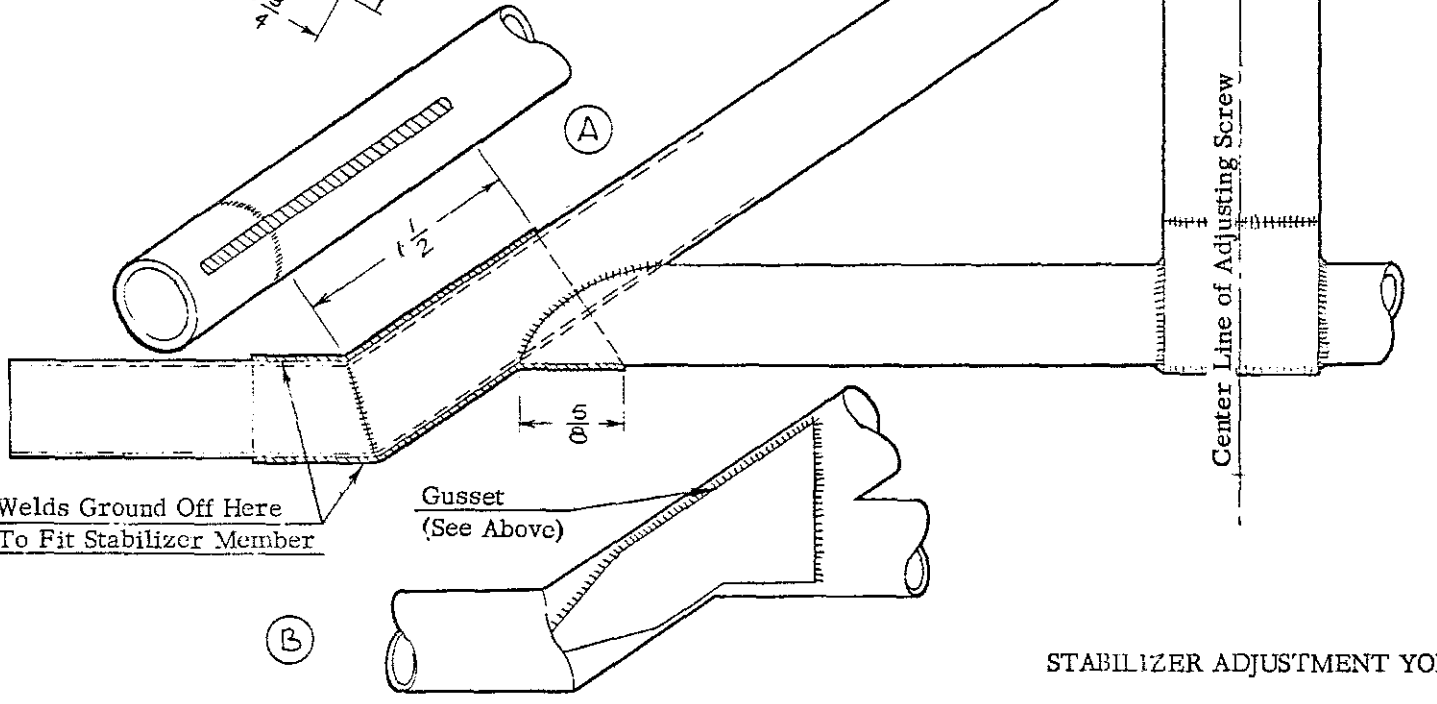
The dimensions of 1-1/2" on top and 5/8" on the bottom, as shown in the sketch, indicate the correct distance which the gusset should extend inward. If, when measured in the exact manner as indicated, these seams are found to be shorter than the dimensions given, it will be necessary to add an external reinforcement.

The method of reinforcement as shown at "B" on the drawing will be satisfactory. Four gussets of the form indicated should be made and welded in place, one on the front and one on the back of each joint.

PIPER AIRCRAFT CORPORATION, LOCK HAVEN, PA., U. S. A.



Reinforcement Gusset
 1/16" #1025 Steel
 4 Required



Welds Ground Off Here
 To Fit Stabilizer Member

Gusset
 (See Above)

STABILIZER ADJUSTMENT YOKE

Method of Reinforcement

CUB MODELS E2 & F2