

STOL CH 801 CONTROLS

SECTION 1 Flap Torque Tube Ref Dwg 8CF-1





**FLAP CONTROL ROD
OUTER BEARING
MOUNTING CHANNEL
8C8-6**

Qty: 1L & 1R



Start the installation by removing the Rear Seat Panel 8F11-9.

Location of 8C8-6:
Against the Fuselage Side Skin 8F2-2A underneath the rear seat.

Photo of left side.

The lower flange sits on top of the longeron, the top fits underneath the L angle (L angle in the corner of the fuselage side skin and the Rear Seat Panel 8F11-9).

Slide the part rearward until a nice fit is obtained.



Wait to drill 8C8-6 to the L angle and longeron. Drill when the Flap Torque Tube 8C8-5 is installed to keep the bearings square.

Measure from the bottom edge of the rear seat front panel exactly 180. Measure up 25mm from the bottom skin.



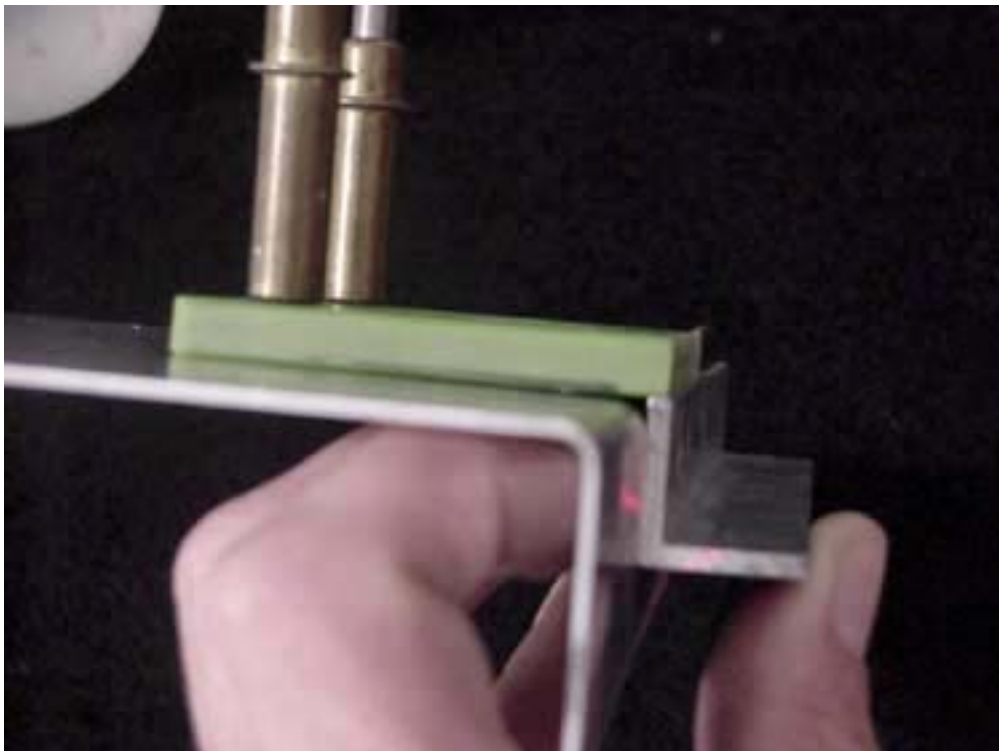
First drill a pilot hole, then drill the 1-1/4" hole in 8C8-6 for the Flap Torque Tube 8C8-5

1-1/4" diameter Hole saw

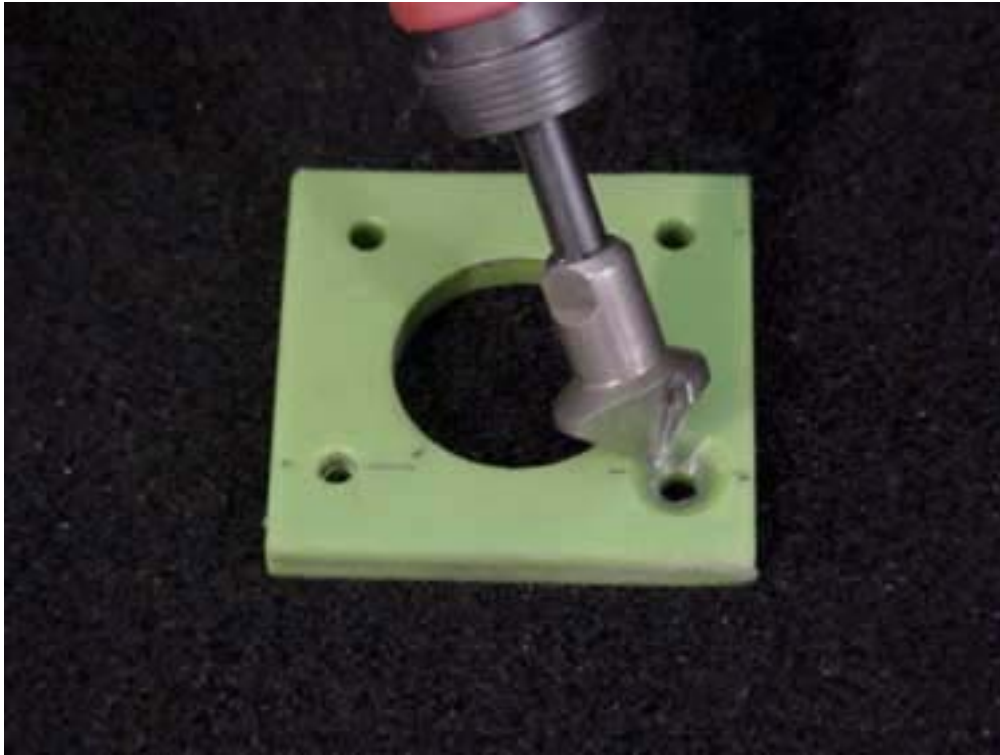


**FLAP CONTROL ROD
OUTER BEARING
8C8-7**

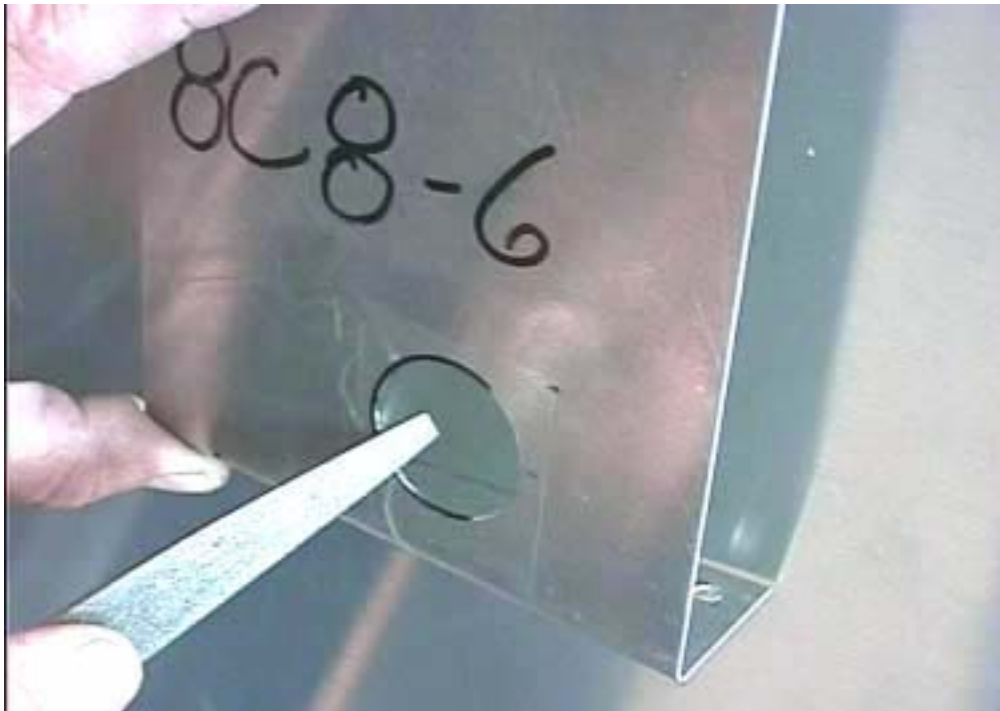
Insert the torque tube through the back side of 8C8-6. Position the Bearing 8C8-7 and drill the 4 corner holes with pilot holes.



If required trim the overhang.
The overhang is the thickness of the extrusion = .093"



The bottom aft hole must be countersunk to make room for the welded tab on the Flaperon Torque Tube 8C8-5.



Remove the bearing and increase the center hole in 8C8-6, 2 to 4mm in diameter. Cleco 8C8-6 back in to the fuselage.



**3 RIVETS A6
1 RIVET A5**

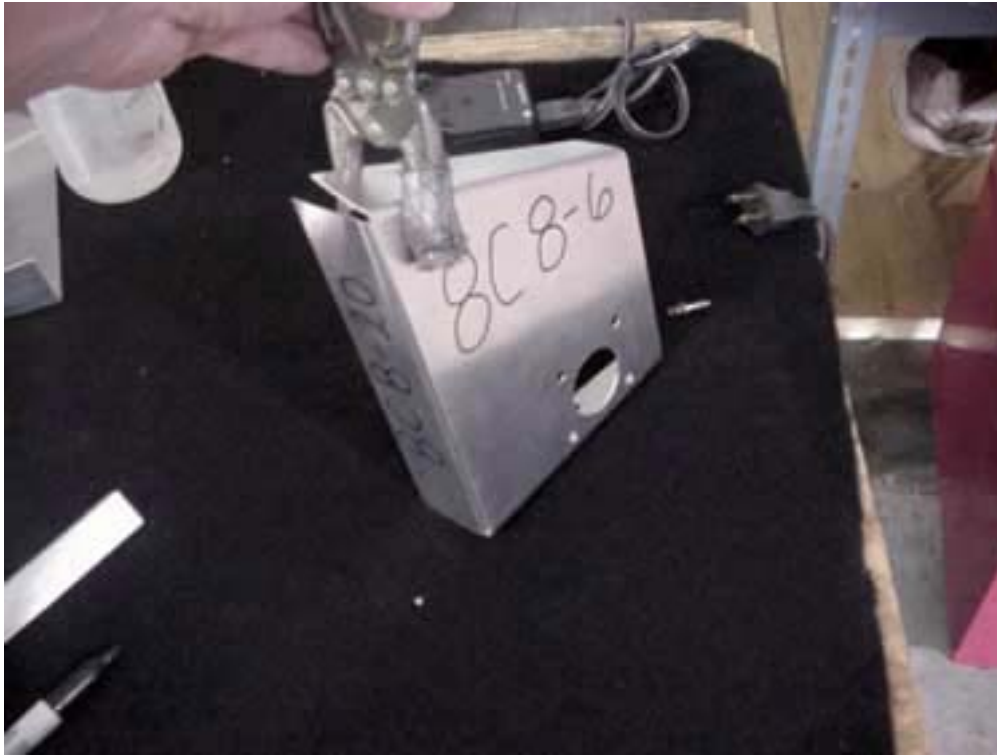
Counter bore hole to ensure that the rivet head will be 1/16" below the surface of the bearing.



**L SUPPORT
8C8-20**

**L ANGLE
4ft length**

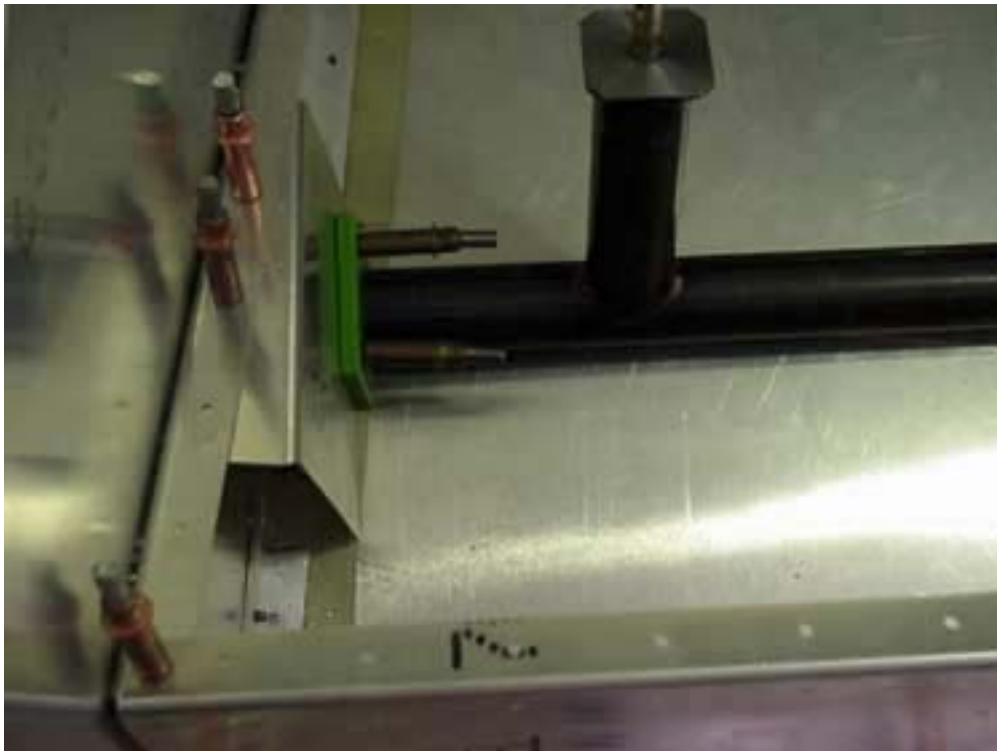
Not supplied cut to length. Cut to length to fit inside the support Channel 8C8-6



Drill and Cleco the Support Channel 8C8-20 inside 8C8-6

6 RIVETS A5

Trim 6B8-20 to length. Clamp the short flange to 8C8-6.



Place the assembly in the fuselage. Clamp 8C8-6 to the L angle.

Check Tolerance:
Approximately 1 to 2mm between the welded tab on 8C8-5 and the Bearing 8C8-7

Check: The centerline of the Torque tube is 182mm from the Seat Panel.

Drill and cleco the top through the L angle and the bottom through the Longerons.

Check: The Bearings are square to the Torque tube. Check edge distance in the top and bottom flange of 8C8-6



Cut the L angle to length. Position the L angles against the side skin.



Rear L angle

4 RIVEST A5
in each flange of the L
angle. (8C8-20 and 8F2-
2A)

Trim the L angle to length.



Front L angle

6 RIVEST A5
in each flange of the L
angle. (8C8-20 and 8F2-
2A)

Suggestion: Trace the edge of the L angle on 8C8-6, then remove the assembly from the fuselage to drill the L angle to 8C8-20



Inside view to show how 8C8-20 overlaps on the inside of the Mounting Channel 8C8-6.