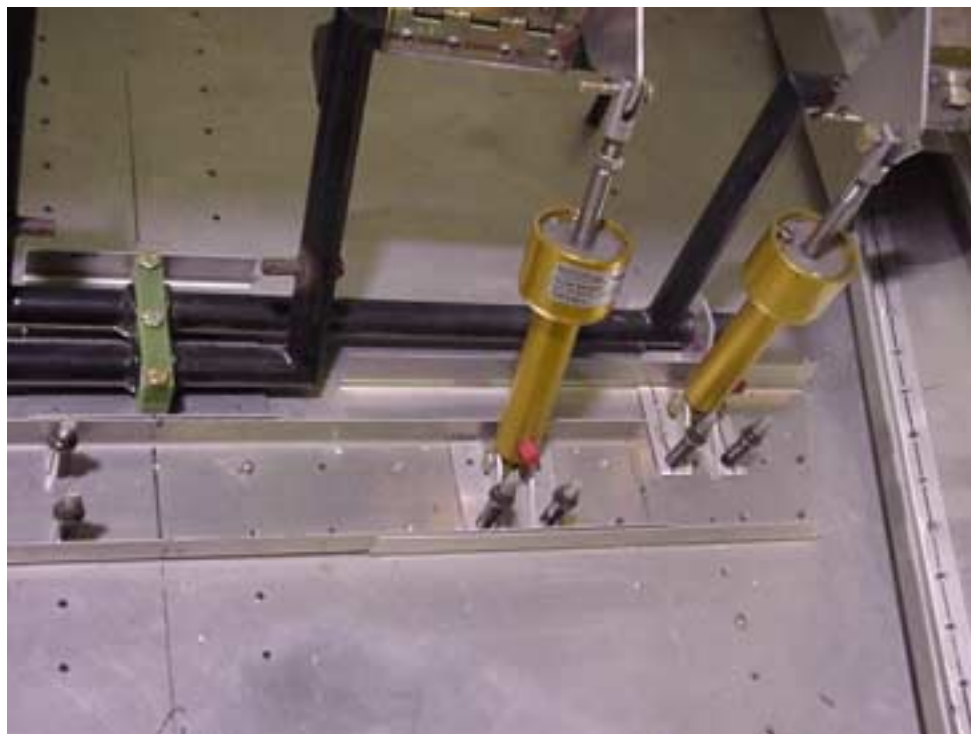


# STOL CH 801 FORWARD FUSELAGE ASSEMBLY

## SECTION 7 Floor Stiffeners and Rudder Pedals

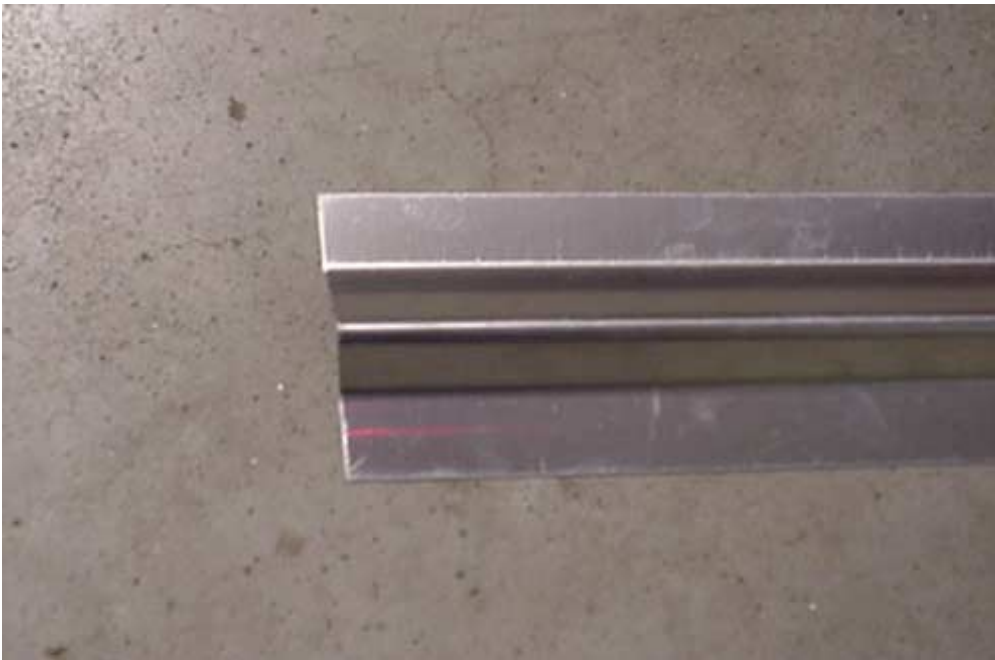


There is equal distance between the base of the master cylinder and the corresponding pedal.



**FORWARD FLOOR  
STIFFENER  
8F8-3**

Hat Channel



CHECK: the ends are tapered; locate the long end towards the back.



Ref. Drawing 8XF-2

Location of the Stiffeners between the front seat and the rudder pedals.



CHECK: 10mm edge distance to the edge of the front and aft flange.

**A4 PITCH 40**

Align center lines.  
Use a hole finder to drill a few holes to cleco the stiffener to the floor skin.



**FORWARD FLOOR CHANNEL  
8C4-5**

**BRAKE CYLINDER CHANNEL  
8C4-5B**

(95mm wide channel)

The square ends are I/B, tapered ends O/B. The narrow end is FRWD.



Lay 8C4-5 inside 8C4-5B

Overlap the flanges together on along the front side.

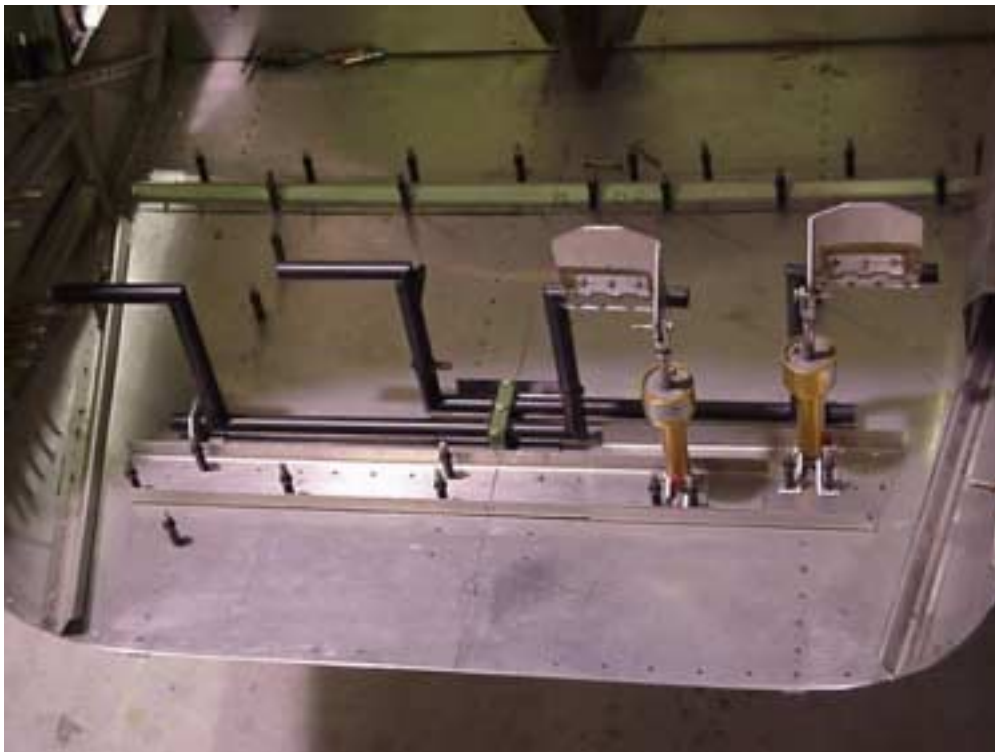
For brakes on the pilot side, the short channel 8C4-5B is installed on the left side.



On the floor skin, layout a line 365mm on each side of the aircraft centerline

Position the rear O/B end and the tapered end of the channels on the 365mm line (left and right side)

Check: distance from the front edge of the skin to the front flange of 8C4-5 is 168mm



CHECK: the channels are parallel to the rivet lines and equal distance to the front and aft flange.

Location of 8C4-5, centered over the 2 rivet lines, (the first rivet line is at 180mm from front edge of the skin 8F8-7)



Use a hole finder to drill the end holes of the rivet line.

The floor skin is pre-drilled for the location of the Channels.



**CENTER PEDAL  
BEARING STIFFENER  
8C4-6**

Installed by lining up center line with aircraft center line.

Positioned on the back side of 8C4-5

Use a hole finder to drill through from the top side.



**A5 PTICH 40**

Slide the assembly off the edge of the workbench to finishing drilling the rivet lines in the Channels and Stiffener.



Drill a hole in the center of 8C4-6 for 8C4-2

Open the hole in the center of 8C4-6 to 3/16 diameter (one hole)



**CENTER PEDAL BEARING  
8C4-2**

**Bolt AN3-15A**  
Qty: 3

Be certain that the bearing is placed parallel to and on the centerline of the floor skin centerline.

Insert a bolt through the middle hole and back drill through the two outer 3/16" holes into the floor skin with a 3/16" drill bit.

Position bearing 8C4-2 in place using a bolt through the center hole.



**OUTBOARD PEDAL BEARINGS  
8C4-3**

Orientation: The vertical flange is O/B

File the edges smooth to remove the saw marks.





**RUDDER PEDALS  
8C4-1**

(Welded assembly)

Separate the left and right pedals: The cable plates are on the middle pedals and point towards the rear (the centering rings are I/B)



Rudder pedals are staggered: The left pedal (pilots left foot) is positioned in the rear hole on the center bearing 8C4-2 (right foot pedal is nearest to the firewall)

**NOTE:** The rudder cable attachment plate welded on the rudder pedals point towards the back.

Photo of rudder pedals, looking forwards, toe brakes on the left.

Temporarily install the rudder pedals, the top portion of bearing 8C4-2 and the outboard bearings 8C4-3.



2 holes in 8C4-3, one in front and one behind the rudder pedal.

Check positioning and hole edge distances to allow for 3/16 bolt holes, before drilling 8C4-3. Drill with a 3/32" drill bit a hole in front and behind the pedals. The holes will be enlarged later for AN3 bolts.

Photo of left side looking forwards.

8C4-3 is behind the Channel 8C4-5B. The outboard bearing 8C4-3 is centered over the longeron rivet holes.



Photo of right side looking forwards.

The front of the bearing is flush with the channel.