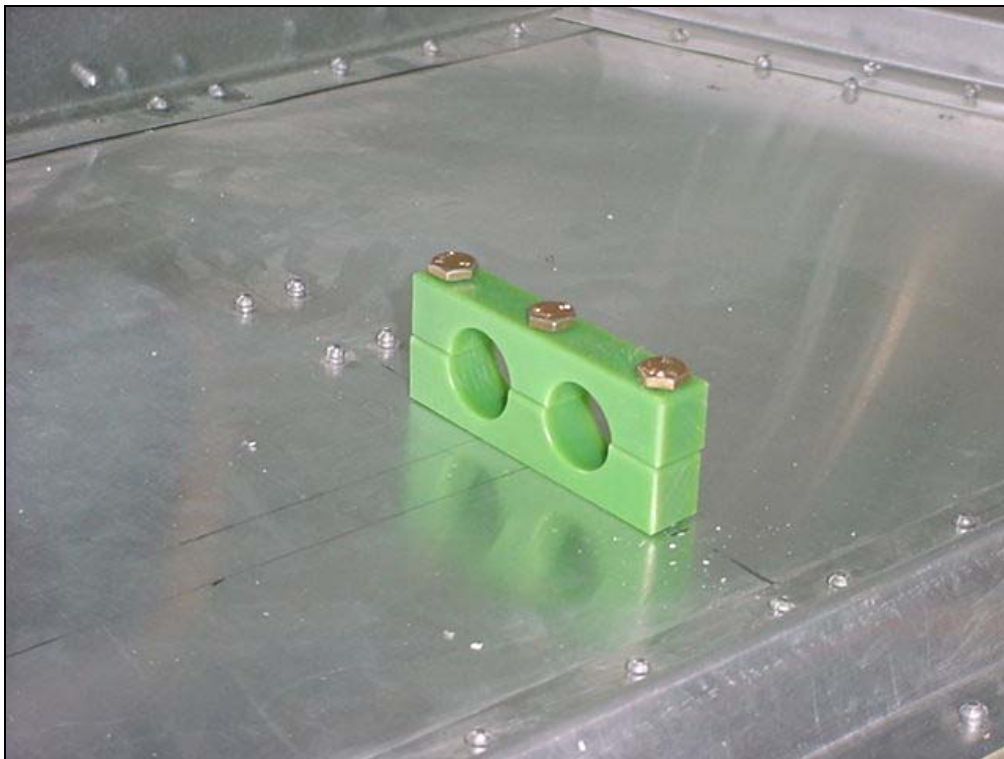




Dual Rudder Pedals with toe brakes on pilot side

Ref: 7-C-4

Neutral position of the pedals: the top of the pedals are in line over the middle of the Central Bearing 7C4-2



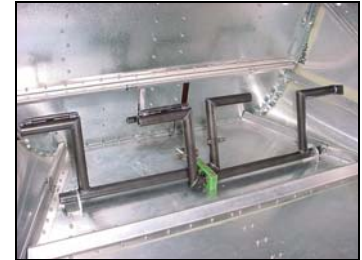
**7C4-2 Pedal Central Bearing**

Position: REF: 7-F-10

NOTE: The holes in the floor skin will be through the middle of the Central Floor Stiffener 7F8-1 on the aircraft centerline.



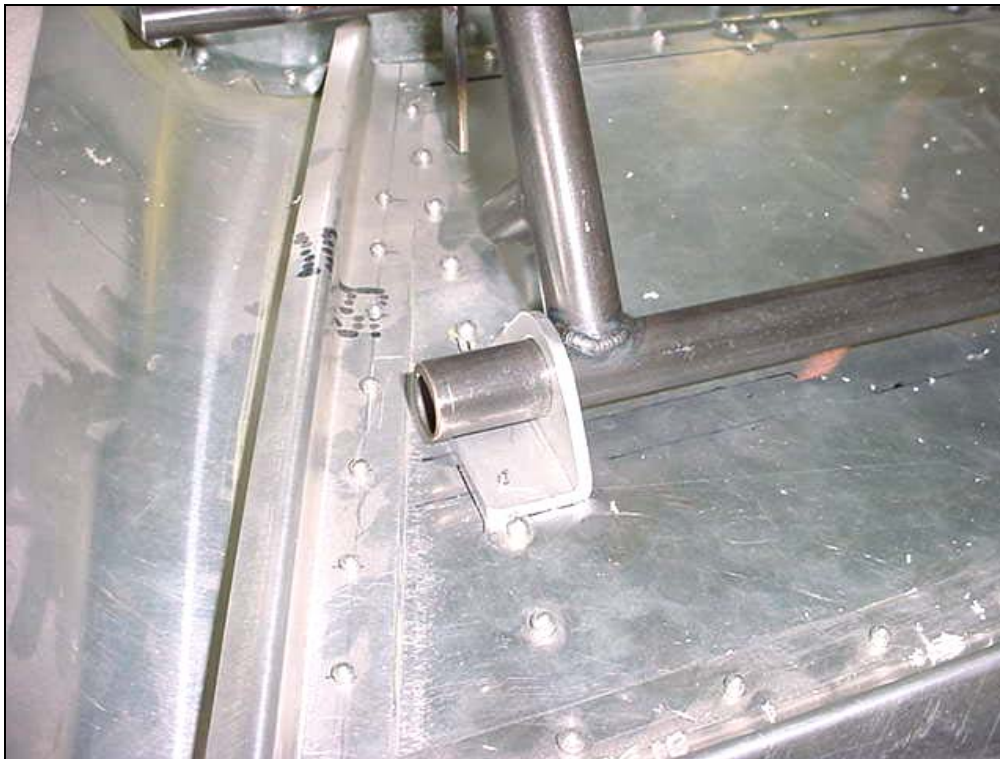
**7C4-3  
Pedal Outboard Bearing**



**CHECK:** The pedals are square to the aircraft centerline.

**NOTE:** The pedals are offset in the Bearing 7C4-2

Drill the 3/4" hole then round off the top.



Detail of left side

**ORIENTATION:** The vertical flange is on the inboard side.



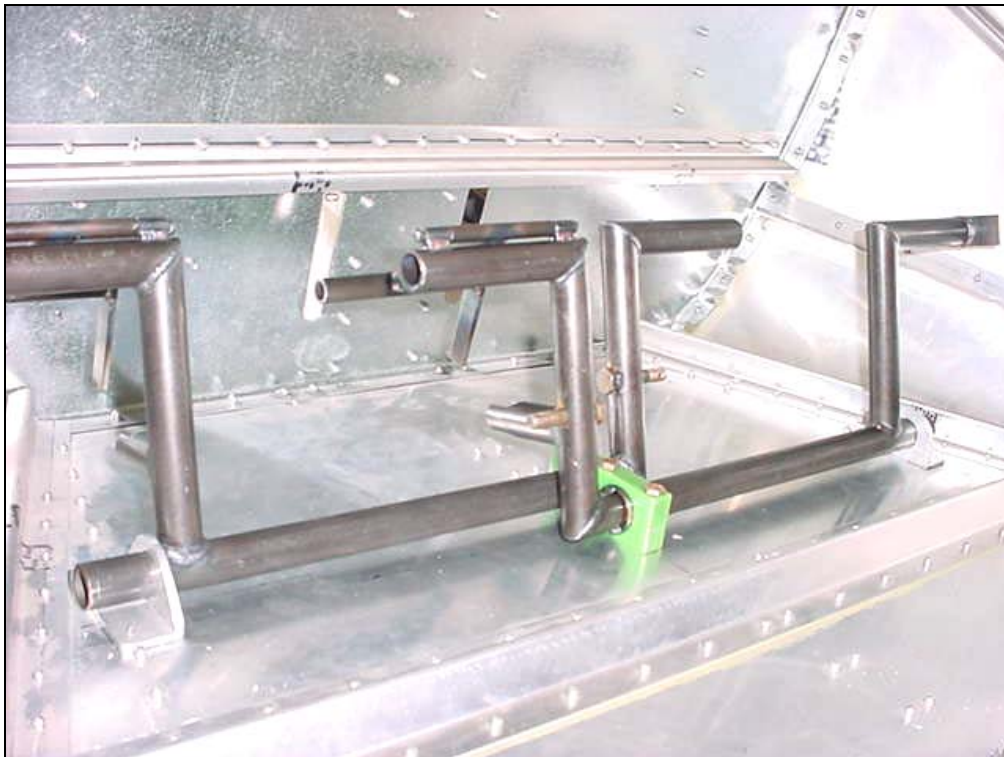
**IMPORTANT:** The holes are through the Longeron 7F10-3 underneath the fuselage.



Detail of right side.



The bolts are through the Front Bottom Longeron 7F10-3



Wait to bolt the rudder pedals to the fuselage, the pedals are removed to install the master cylinders next.



NOTE: The bolts through the Center Bearing 7C4-2 are through the Floor Stiffener 7F8-1



**7C4-1J**  
**Rudder pedals**

Drill the 3/16" hole for the rudder cable attachment.  
Check: Edge distance = 10mm



Cutout in 3/4" tube for the  
lower attachment

MC-5 Matco Master Cylinder with built in reservoir.

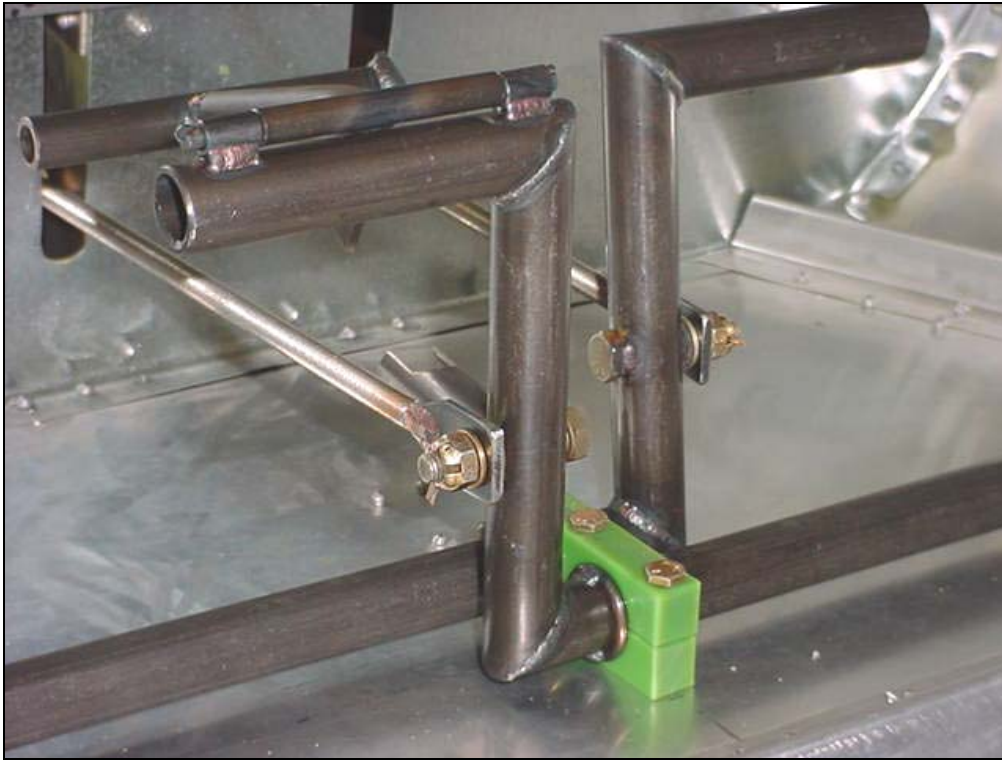


Note: If necessary, remove the fork to grind off some of the threads on the shaft.

Keep the top of the Master Cylinder close to the toe plate on the toe brake.  
CHECK: The Master Cylinder is very close (touches) the hinge for the toe brake.

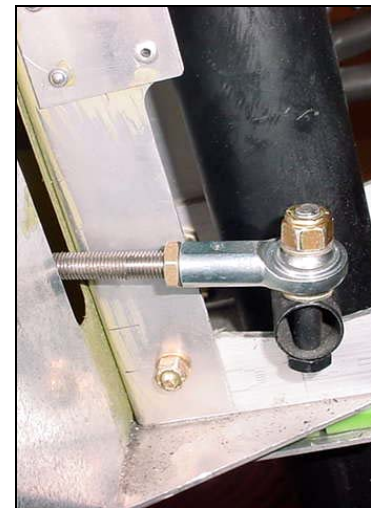
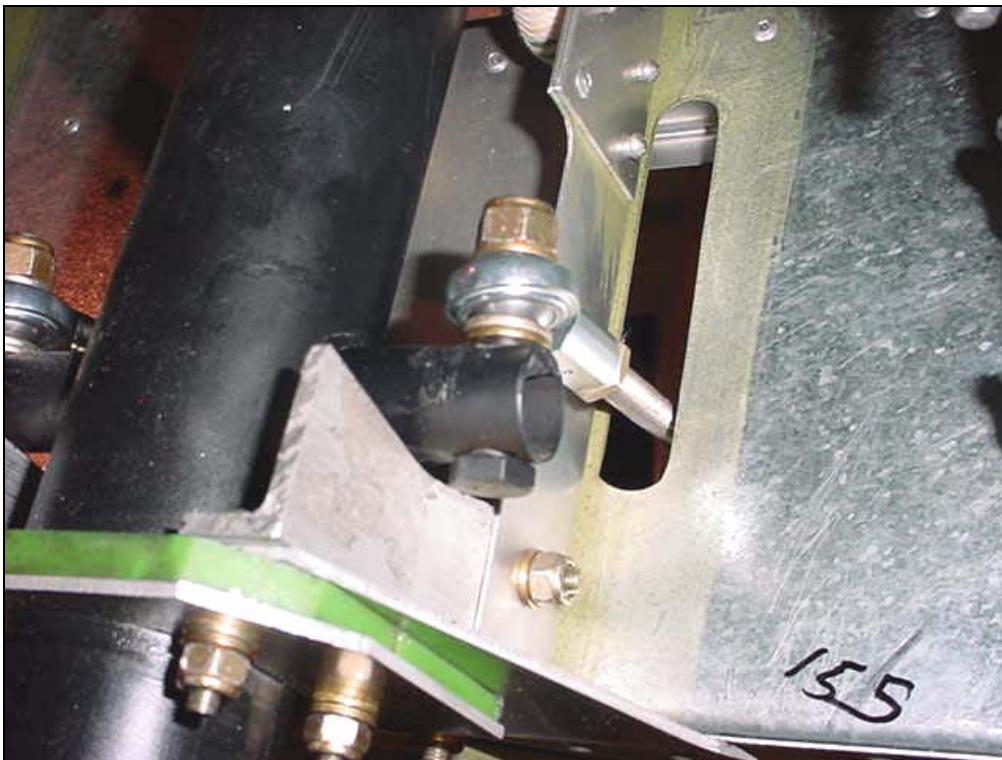


Re-install the rudder pedals to the fuselage.



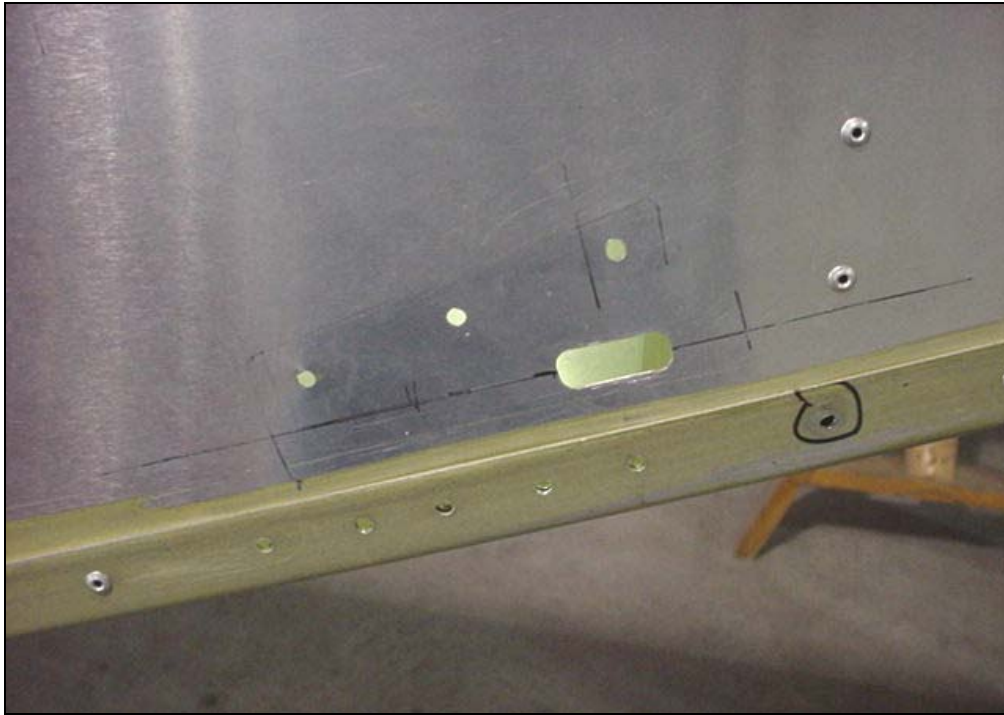
**Steering Rods 7L1-2J**

Bolt the Steering Rods to the Rudder Pedals: the plate with the 5/16" hole is positioned on the Rudder Pedals: use castle nut and cotter pin.



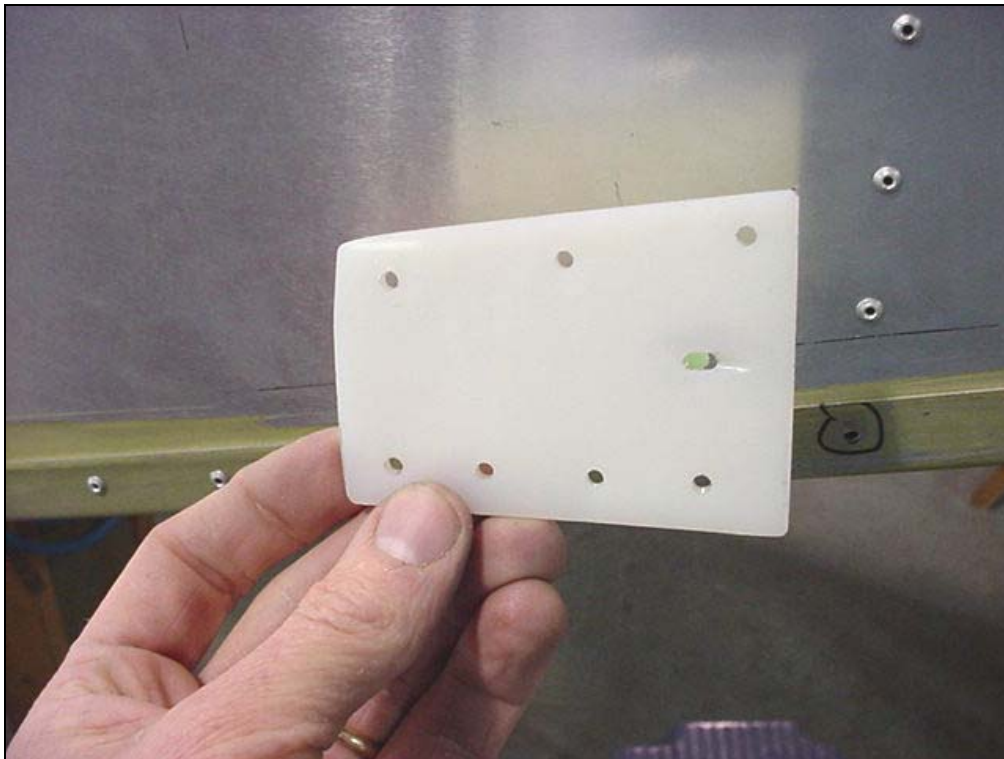
Screw in jam nut, then the rod end.

If necessary, adjust the length of the Steering Rods to position the Rudder Pedals in the neutral position.



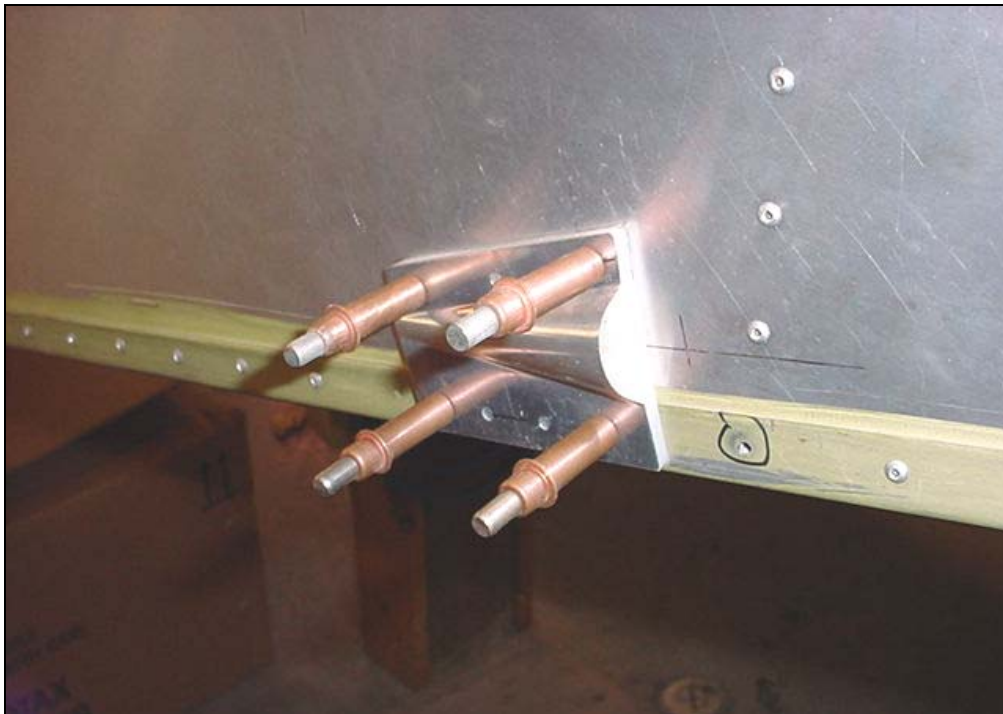
Rudder cable outlet  
REF: 7-C-5

Hole in Fuselage Side Skin 7F2-2 for the rudder cable (in front of the front HT Frame 7-F-4)



7C5-2  
Rudder Cable Fairlead

#20 hole slotted-hole in line with the direction of the rudder cables.



**7C5-3**  
**Rudder Cable Outlet**

The 1/8" plastic Fairlead is between the outside skin of the Fuselage and the Rudder Cable Outlet 7C5-3.



**7C5-7**  
**Pulley Brackets**

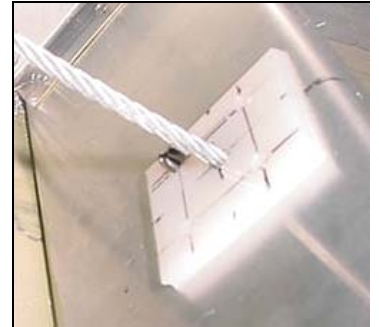




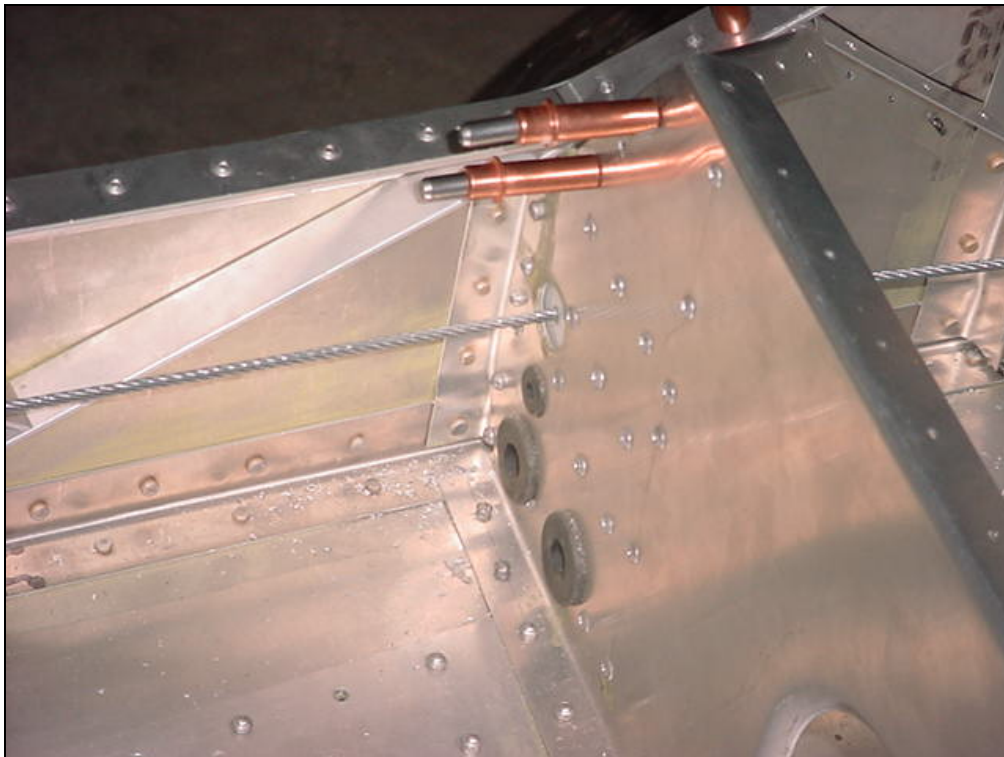
Rudder Cable through a #20 hole in the Fairlead 7C5-6



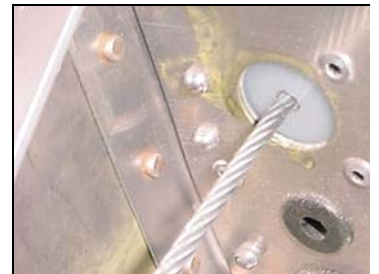
1/2" hole in the web of the Bottom Channel 7F6-1



1/8" Fairlead 7C5-6 riveted on the front side of Channel 7C6-1



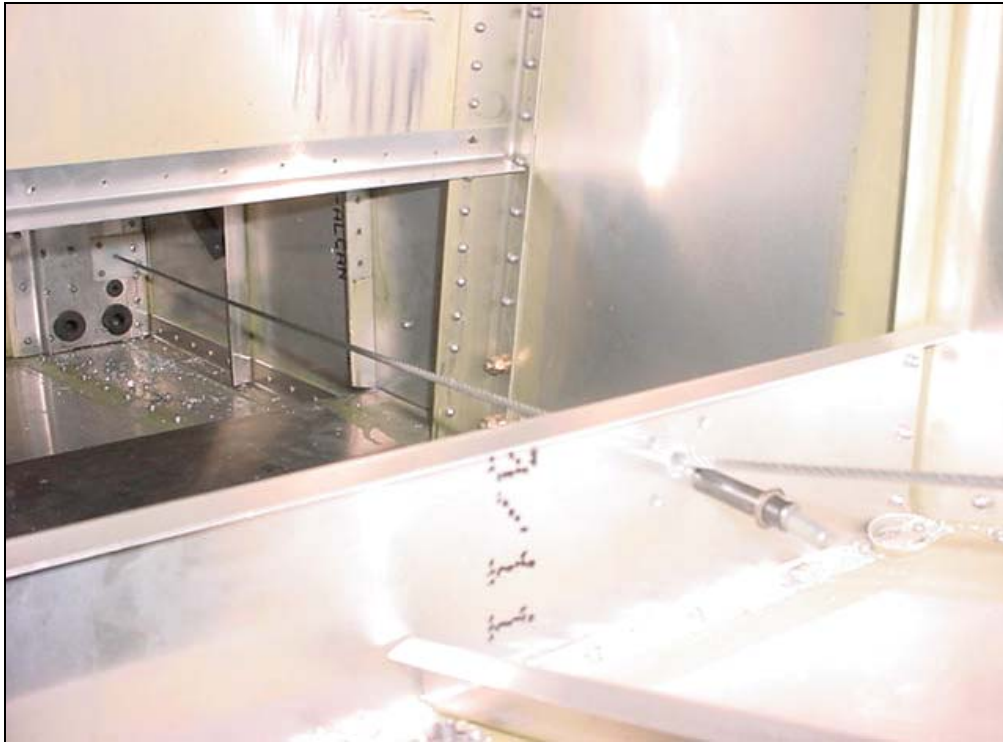
Rudder Cable through the Seat Front



3/4" hole in Seat Front 7F11-1 Ref: Hole "a" and "e"

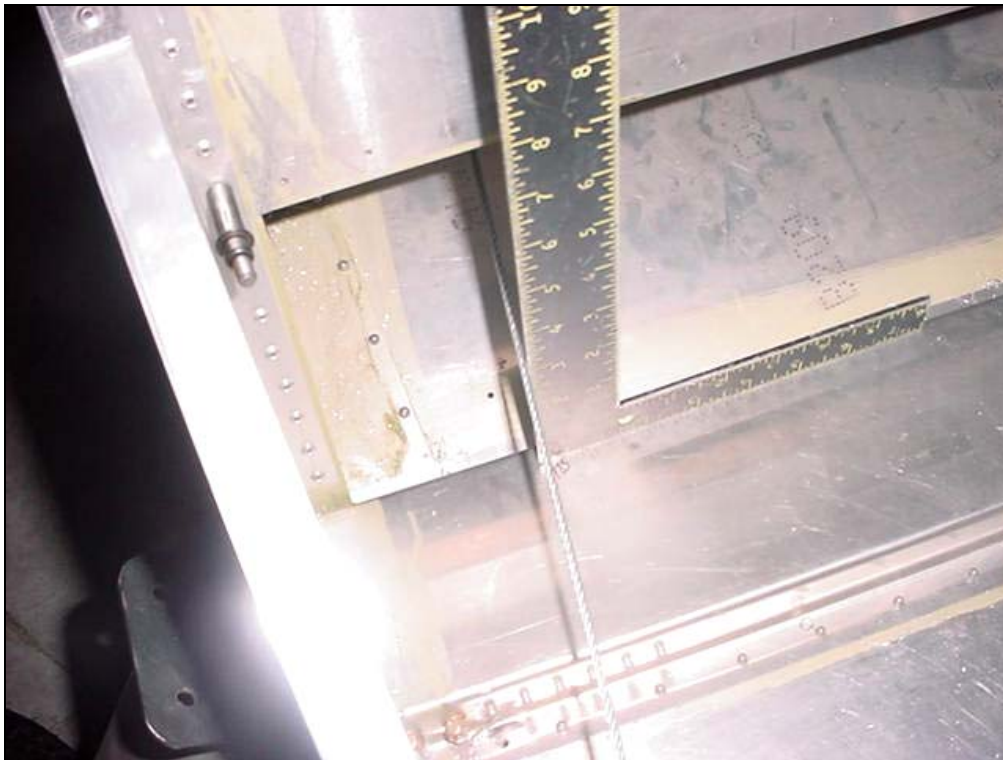


Fairlead 7C5-1A riveted on back side of 7F11-1



Pull the cable through Fairleads 7C5-1A and 7C5-6

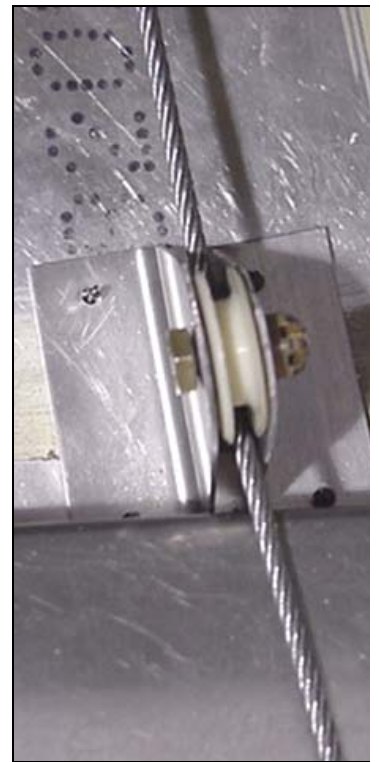
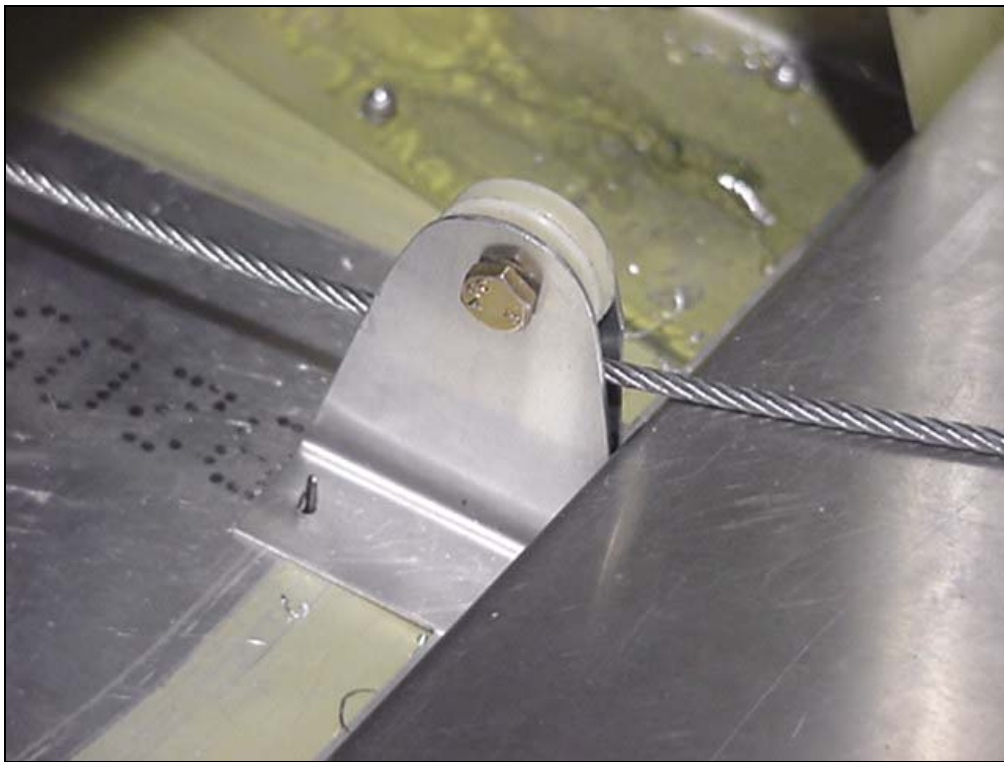
Pull the cable tight between the Front Seat 7F11-1 and the Rear Channel 7F6-1



With the cable pulled tight between Fairleads 7C5-1A and 7C5-6, use a square to mark the vertical position of the cable on the Bottom Channel 7F10-1



Position the pulley assembly to the fuselage floor with the pulley in line with the reference line.



Approximately 10mm clearance between the cable and the Gear Channel. Check that the pulley turns freely.

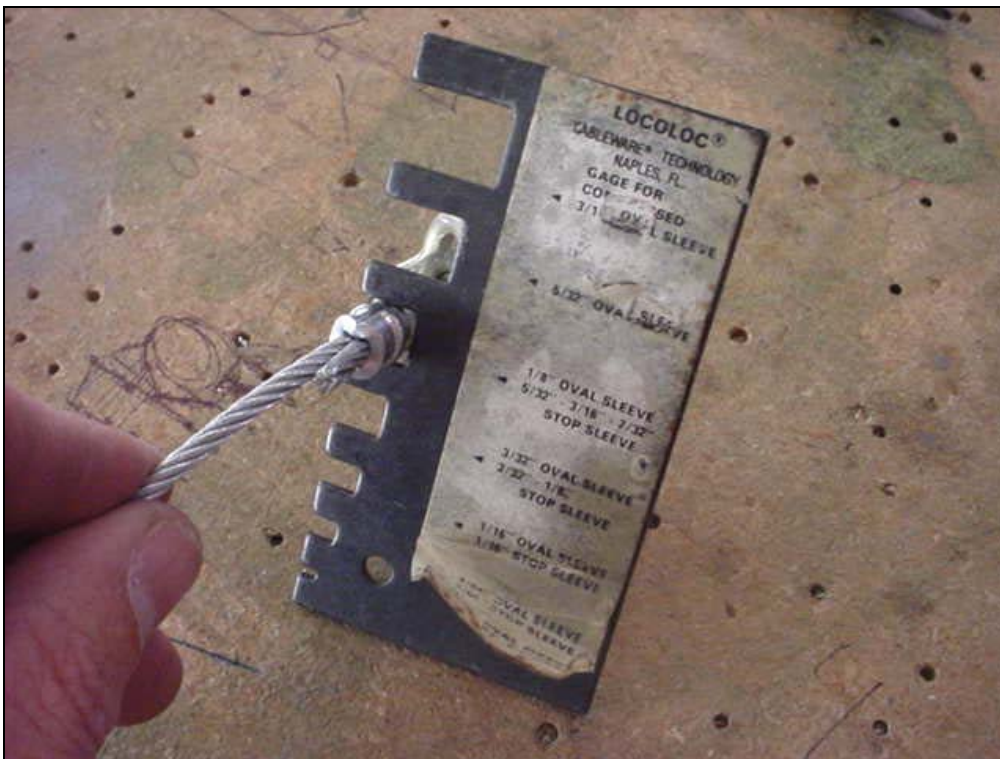
Castle nut and cotter pin.



Nicopress Sleeve

REF 7-C-0

Cable Shackles AN115-21



**Reference:** See

“Construction Standards for Zenair Light Aircraft”

And

**FAA AC 43-13**  
for proper swaging order and procedure.

GO-NO Go Sleeve Gauge



Bolt the Rudder Cables to the Rudder Pedals. Install the bolts with the head on the inboard side to avoid bending or wearing the cotter pin on the castle nut when deflecting the Rudder Pedals.



Rudder Horn 7R2-3, the legs are bent down

**CHECK:** The top and bottom surface of the fork on the turnbuckle are parallel with the Rudder Horn.

If necessary, bend the legs of the Rudder Horn to be in line with the Rudder Cable.



The kit is supplied with the Cable Plates 7C6-1 and the Cable Angles 7C6-2. An alternative is to use turnbuckles.

Safety-wire the turnbuckle.