

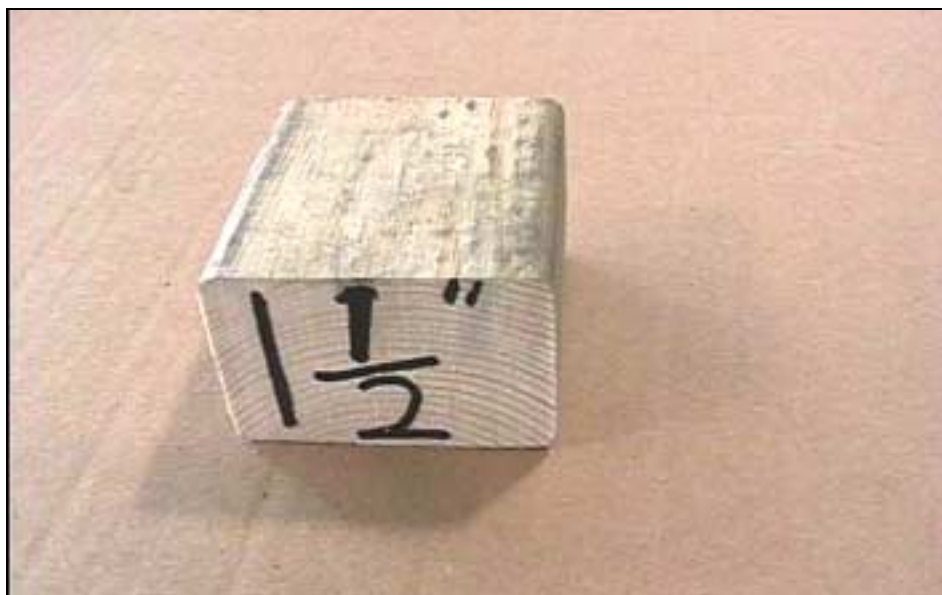
STOL CH 801 FINAL ASSEMBLY

SECTION 1

“NOSE GEAR TO THE FUSELAGE”



The nose gear parts.



Take a look at photos ff3-14 & 15 before starting assembly.

1 1/2" thick gauge block.



Temporarily applying a small strip of doubled sided carpet tape will assist in holding the bearing support in the correct location.

8F8-4 is bent at 14.4 degrees to be square with the gear leg.

Install the nose strut 8L1-1 into the upper bearing in the firewall. Place the spacer block behind the strut. Position the lower bearing support 8F8-4 in place under the cabin floor as illustrated and hold it there.



The bearing support has predrilled holes.

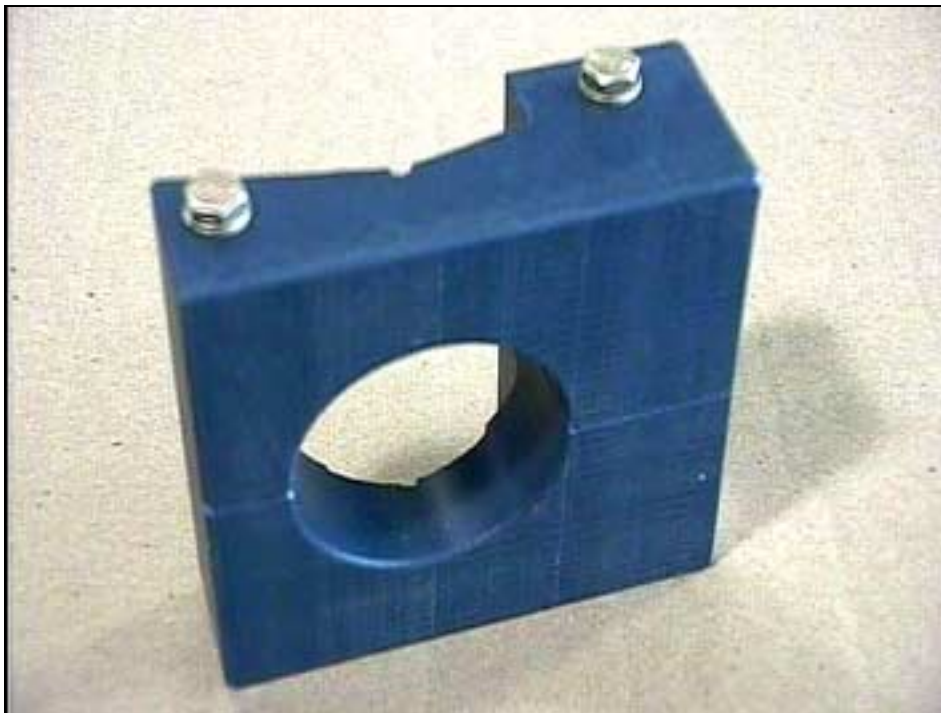
Viewing the strut from the front of the aircraft adjust the location if necessary to ensure that the strut is centered in the firewall channel.

Drill the bolt holes (#12 drill) from the under side of the fuselage through the bottom channel and floor.



AN3-6A bolts qty=4
AN3-7A bolts qty=3

Bolt the bearing support in place.



AN3-42A bolts qty=2

The lower nose gear bearing 8F8-5 is the next item to install. Remove the two bolts holding the two bearing halves together.



Clamp the installation template to the side of half of the lower bearing keeping it flush with the bottom and front edge. (see photo fa1-8)
Drill the two mounting holes in the template.



The template after drilling.



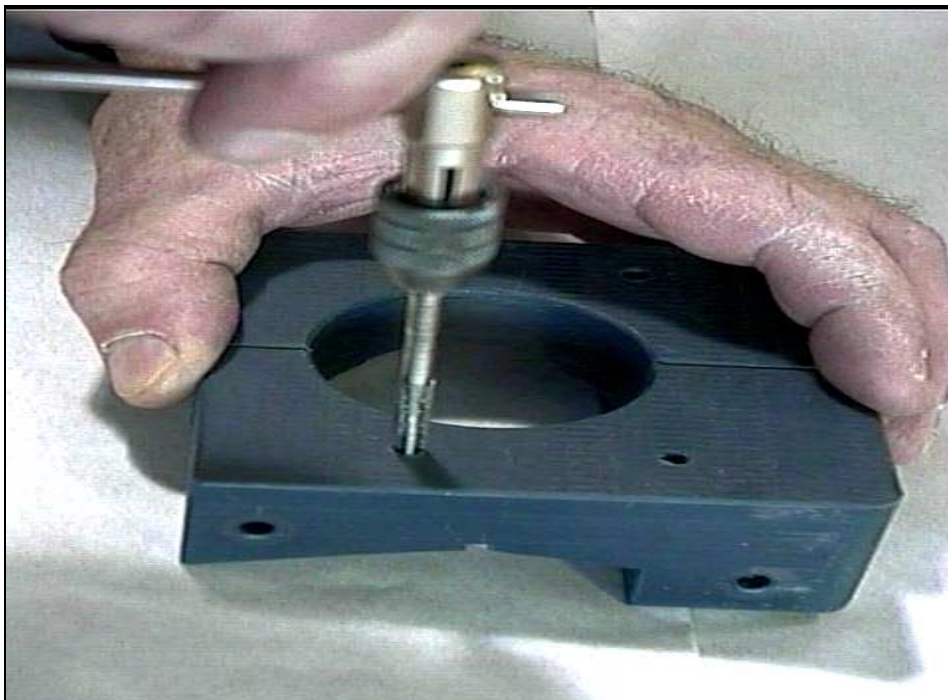
To allow the nose gear cross tube to sit tightly into the “V” groove, it will be necessary to cut a clearance notch in the template.

Bolt the bearing in place around the nose strut, with the template on the side, overlapping the vertical channel on the firewall.
Keep the template and bearing pressed tightly against the bearing support. Push the nose gear strut downward so that the cross tube nests tightly in the “V” groove of the bearing.
Use a long drill bit to drill through both sides of the firewall channel.
Install the rear bolt.



Later, open the pilot hole in 8F8-4 (aluminum) to a 1/4" hole.

With the bearing bolted to the firewall channel and also clamped to the bearing support, spot the two blind mounting holes into each half of the bearing. Drill a 3/16" pilot hole. Caution: Drill the spot holes 1 - 2mm deep - no more.



Use a #3 drill bit (.213")
Tap 1/4" x 28

An4H-6A bolts qty=4

Remove the bearing from the aircraft - drill the spotted holes with a #7 drill 15 - 18mm deep.



If the nose gear strut is found to be interfering with the main gear support it is quite correct to file the support to provide clearance for the strut. Only the nyoil bearing should be making contact with the nose gear strut.



8L1-1

Lubricate the top and bottom bearing area of the nose gear strut.



Cotter Pin
AN380-3-4

Washer
AN960-816

Install the bungee pin and the bungee, then the nose gear strut.



Install the lower bearing and bolt it in place. Safety wire the head of the four 1/4" bolts