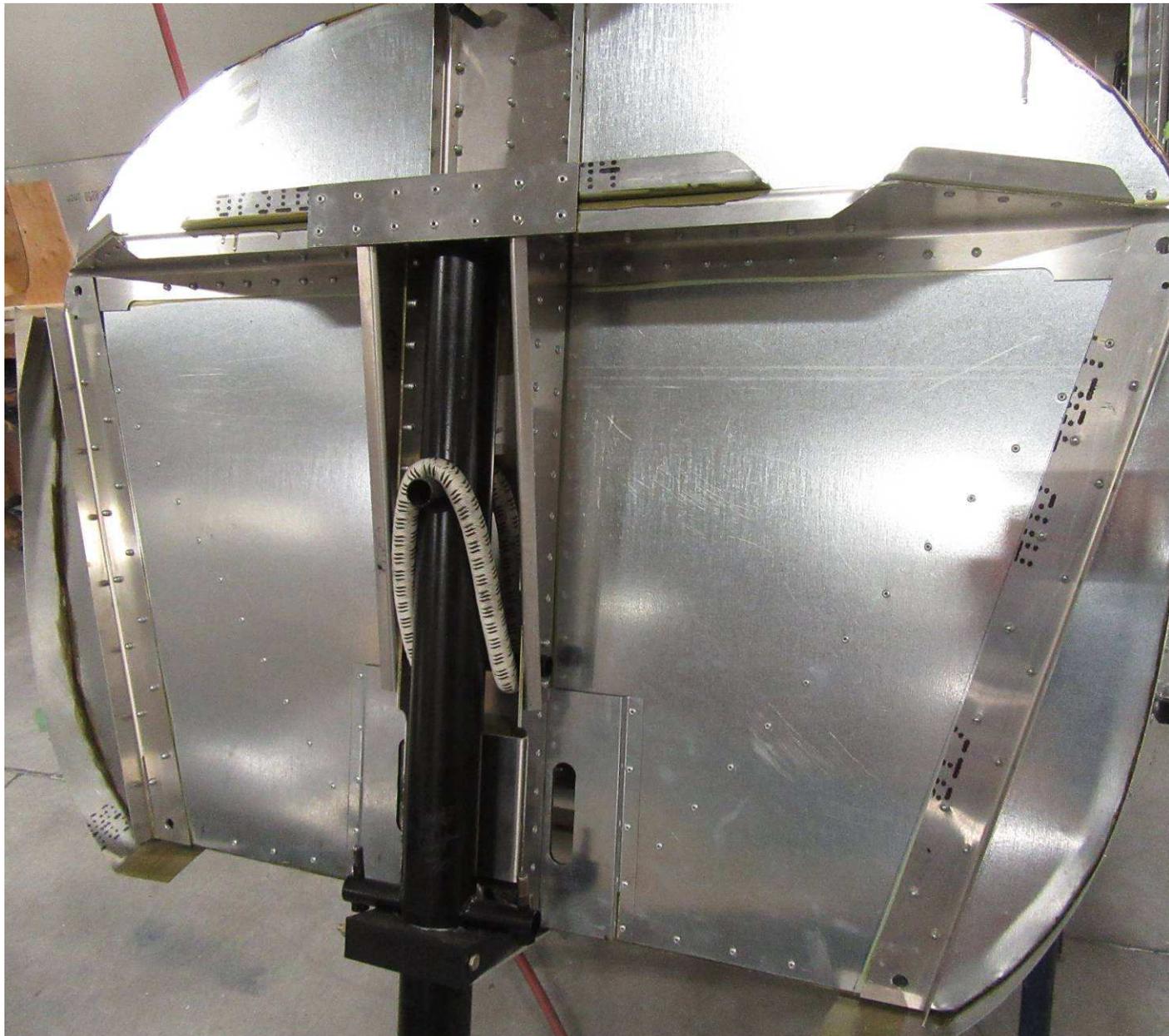


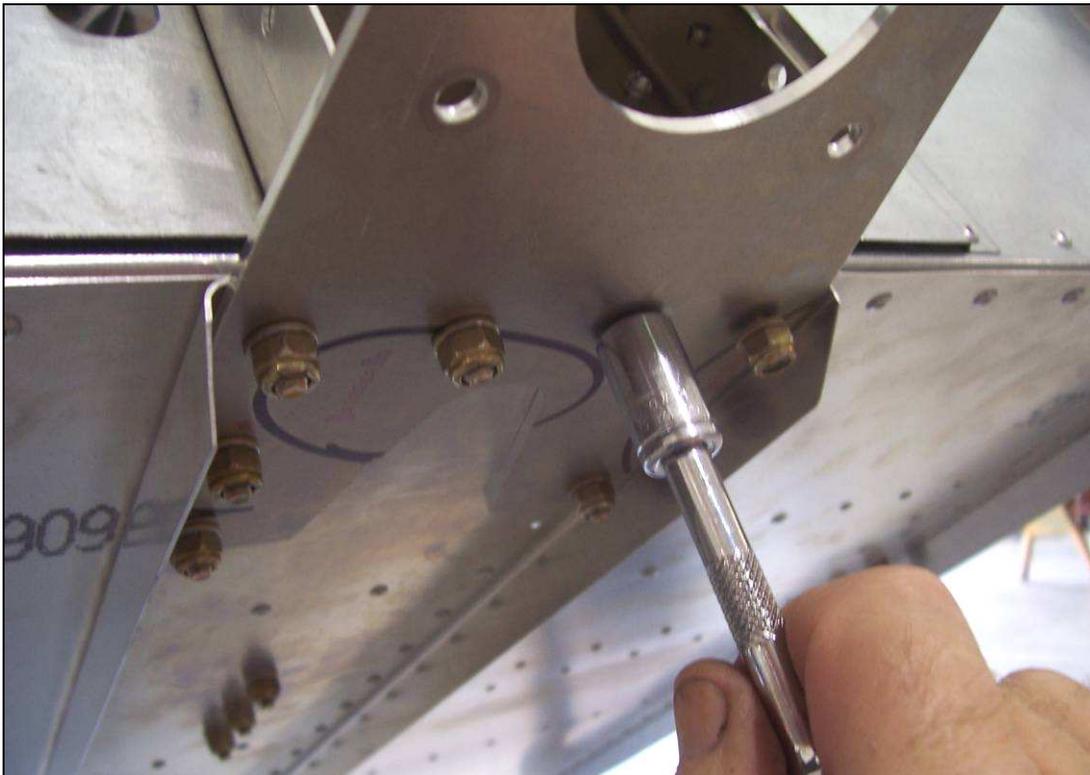
Section C75-LA-1 Nose Gear Installation



This manual has been prepared for assembly of the nose gear. This photo assembly manual is intended as a supplement to the drawings. If there is any discrepancy between this manual and the drawings, the drawings supersede this manual. For more information on building standards and allowable tolerances see "Construction Standards for Zenair Light Aircraft" available from Zenith Aircraft Co.



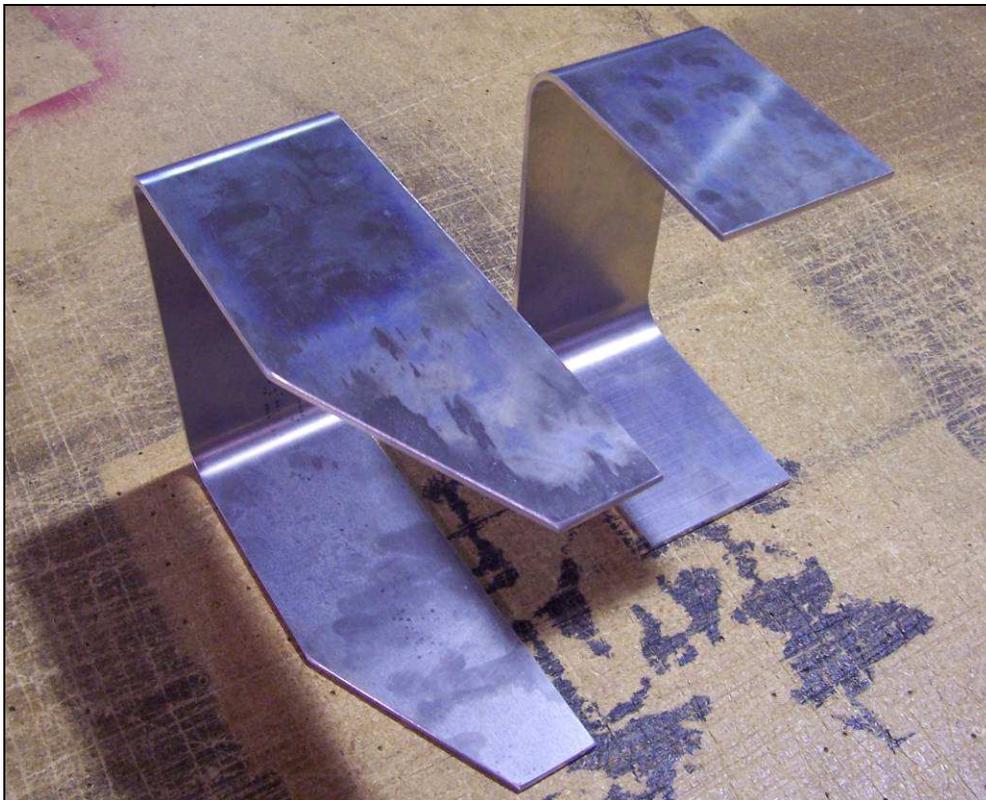
P/N: 75F12-5
Lower Bearing Support



Cleco the Lower Bearing Support to the Floor Stiffener and Cabin Floor
With a #12 drill bit, expand the holes. Deburr and bolt the Lower Bearing Support to the Fuselage with 8 AN3 bolts.

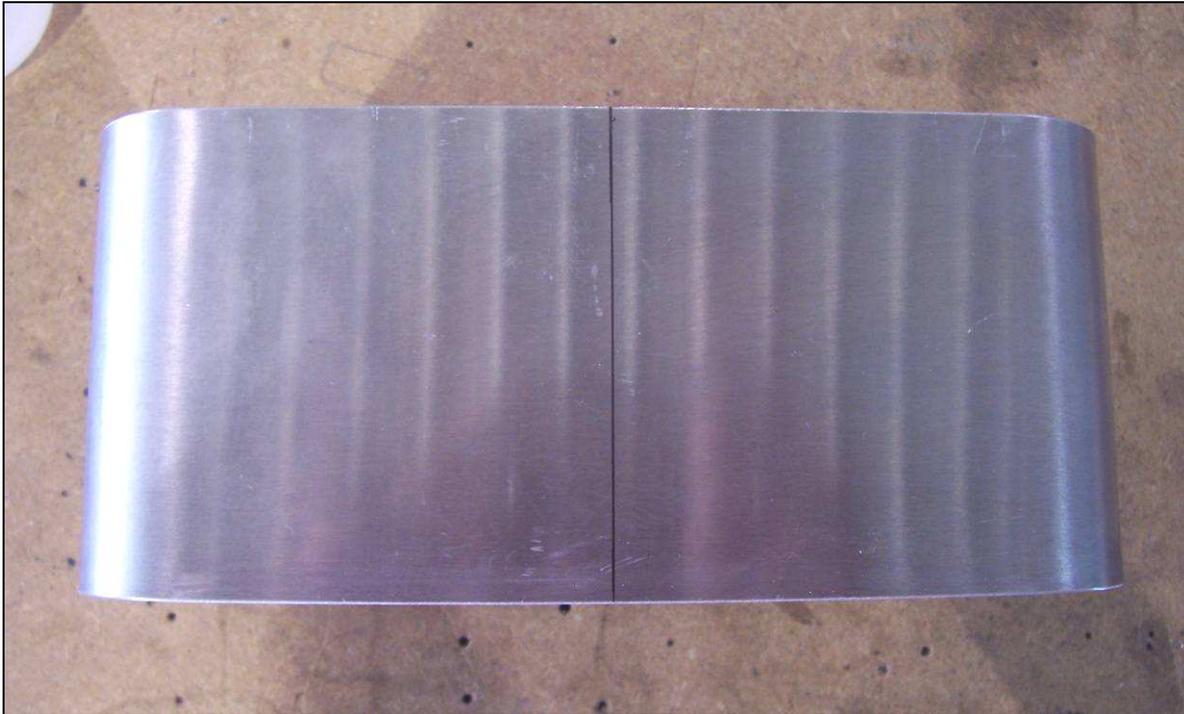


P/N: C75L1-1
Nose Gear
Leg

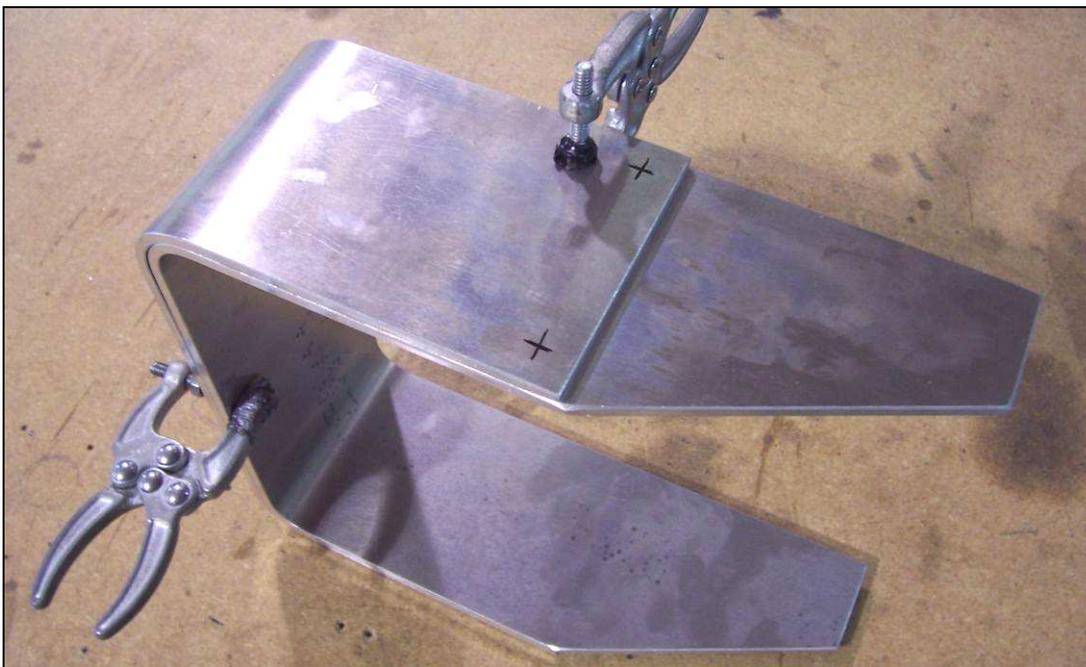


P/N: C75L1-2
Nose Wheel
Fork

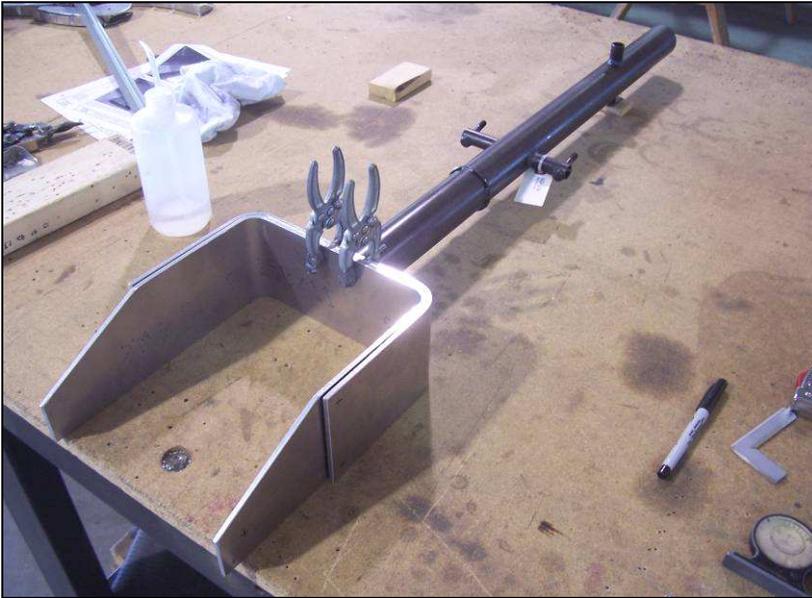
P/N: C75L1-3
Nose Wheel
Fork Doubler



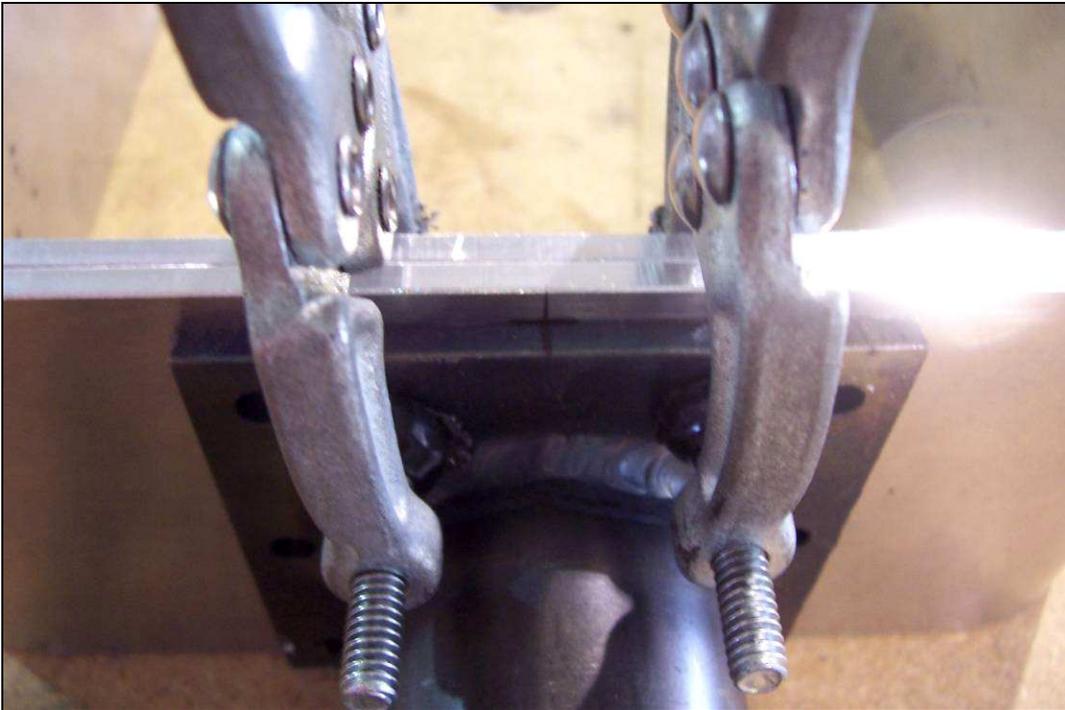
Mark the center line on the top of the Doubler.



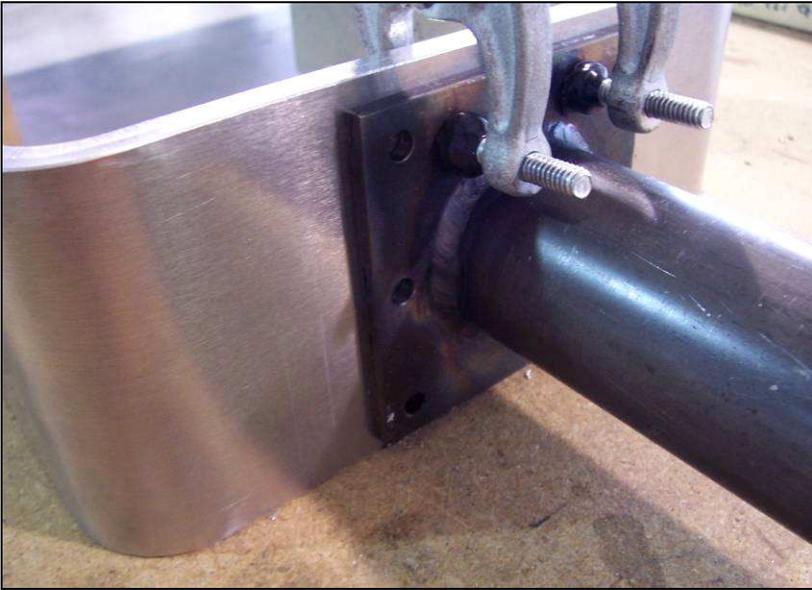
Clamp the Doubler on the Fork. Mark bolt locations 12mm from the front and back edges and up 12mm from the bottom of the Doubler on the left and right side. With a #40 drill bit, drill and Cleco the Doubler to the Fork. Expand the holes to 1/4". Deburr the holes and bolt the Doubler to the Fork with AN4 bolts.



Be sure the front of the Nose Gear Leg is clamped to the front of the Fork. The tapered side is forward on the Fork and the plate to retain the bungee is on the back of the Nose Gear Leg.



Mark the center line on the bottom plate of the Nose Gear Leg. Align the center line on the Doubler with the center line on the Nose Gear Leg. Position the edge of the Nose Gear Leg plate on the line 5mm from the edge of the Doubler and Clamp the Nose Gear Leg in place.



Layout 3 bolts locations on each side of the Nose Gear Leg plate and drill the holes to 1/4". Start with a #40 drill and work up to 1/4". Deburr the holes and bolt the Nose Gear Leg to the Fork and Doubler.



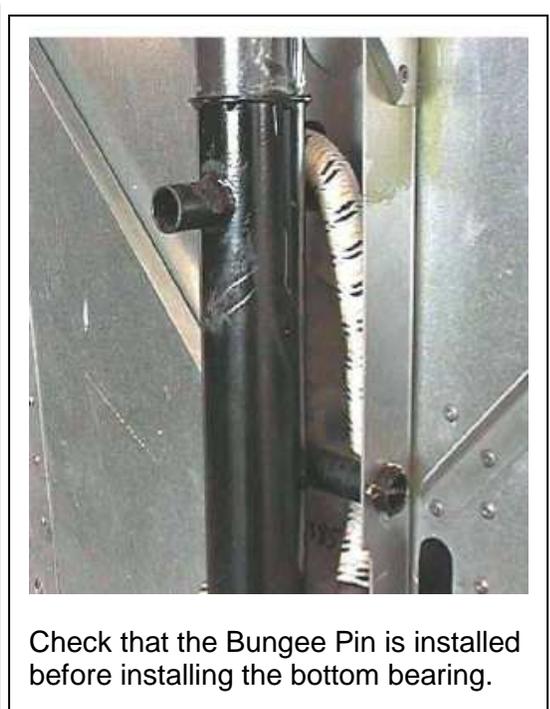
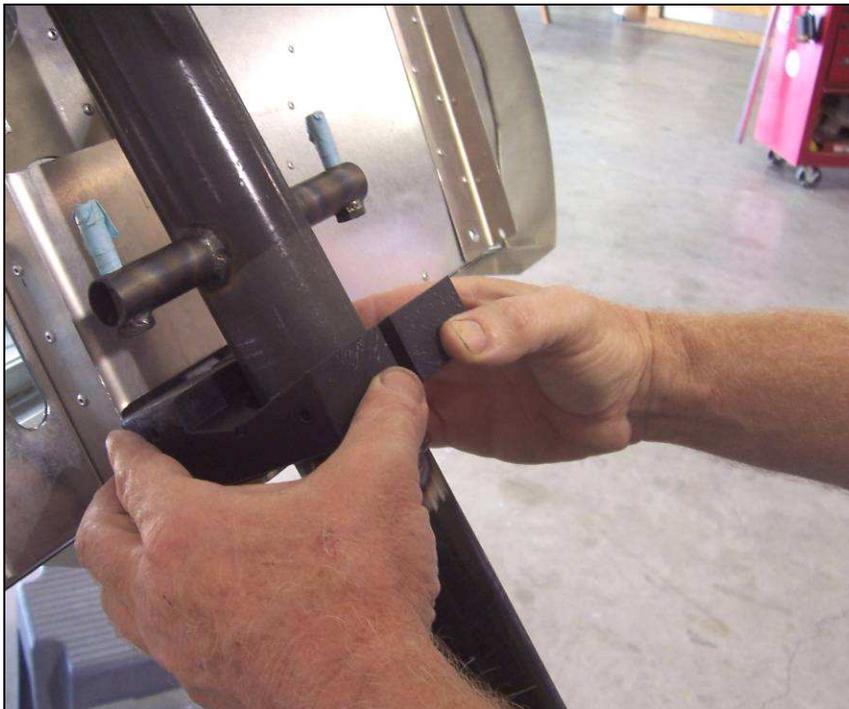
P/N: C75L1-6
Bungee Pin

P/N: 1080HD
Shock
Bungee

Position the Shock Bungee around the Nose Gear and reinstall the Nose Gear on the Firewall. Be sure to grease the Bearings before final installation. Install the Bungee Pin and secure it to the Firewall with a Cotter Pin on each side. Make sure the Bungee is under the Pin.



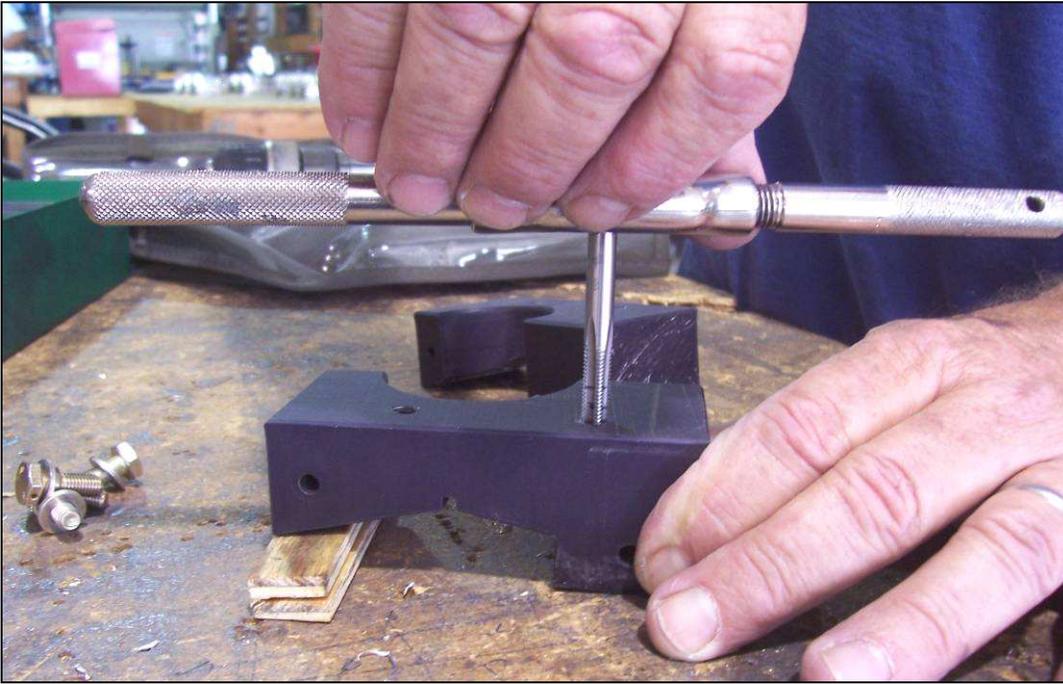
P/N: C75L1-7
Nose Gear
Bottom
Bearing



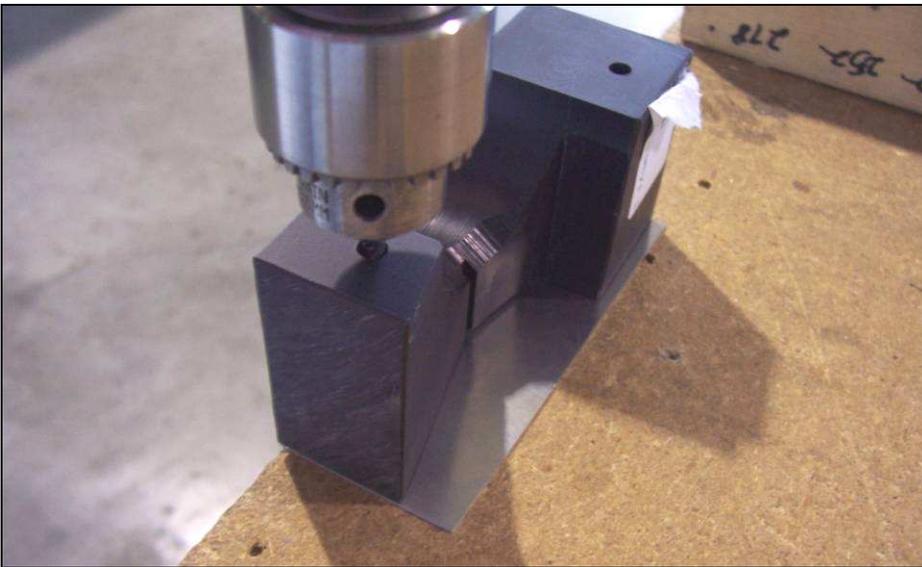
Check that the Bungee Pin is installed before installing the bottom bearing.

Position the Bottom Bearing around the Nose Gear Leg. Slide the Nose Gear Leg up into the Upper Bearing and push the Bottom Bearing between the flanges of the Center Firewall Stiffener

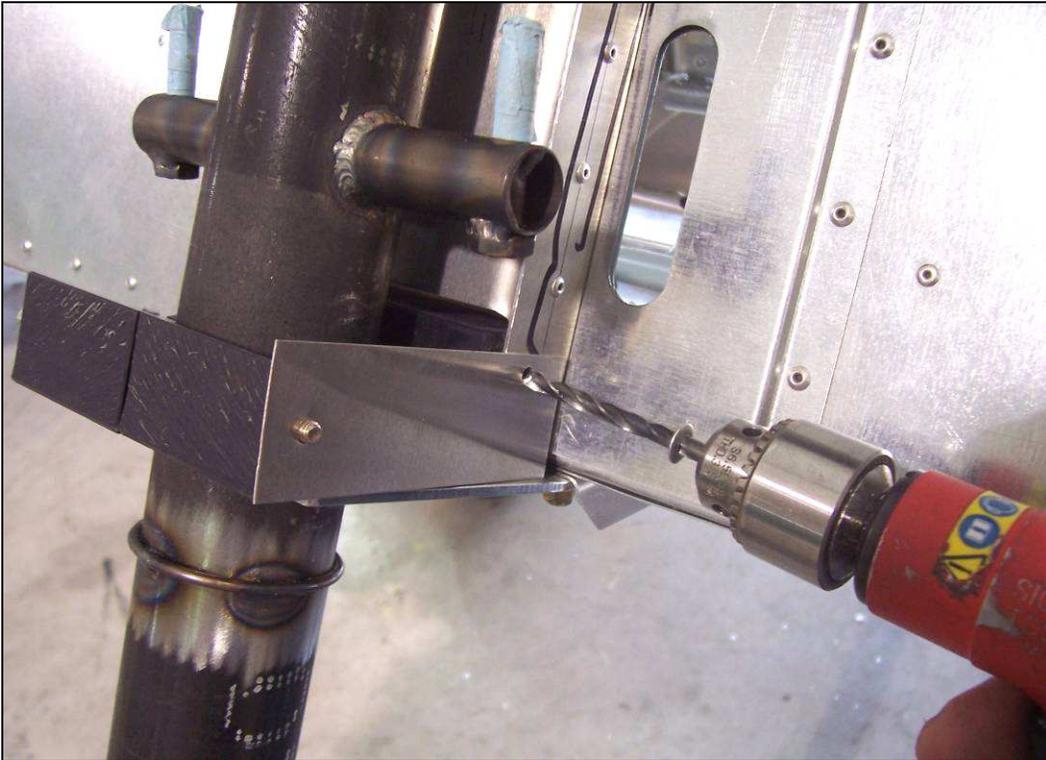
. Back drill through the Lower Bearing Support into the Bottom Bearing with a #30 drill bit and Cleco. Expand the holes in steps up to a #3 drill bit.



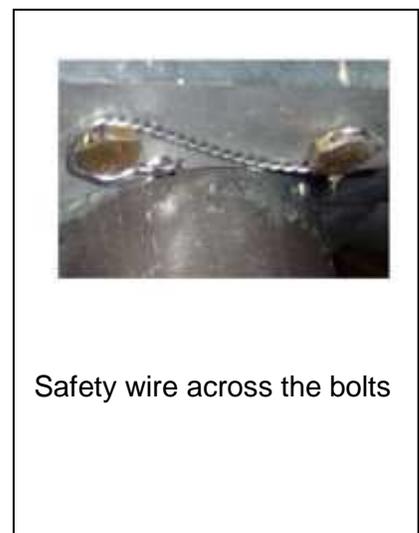
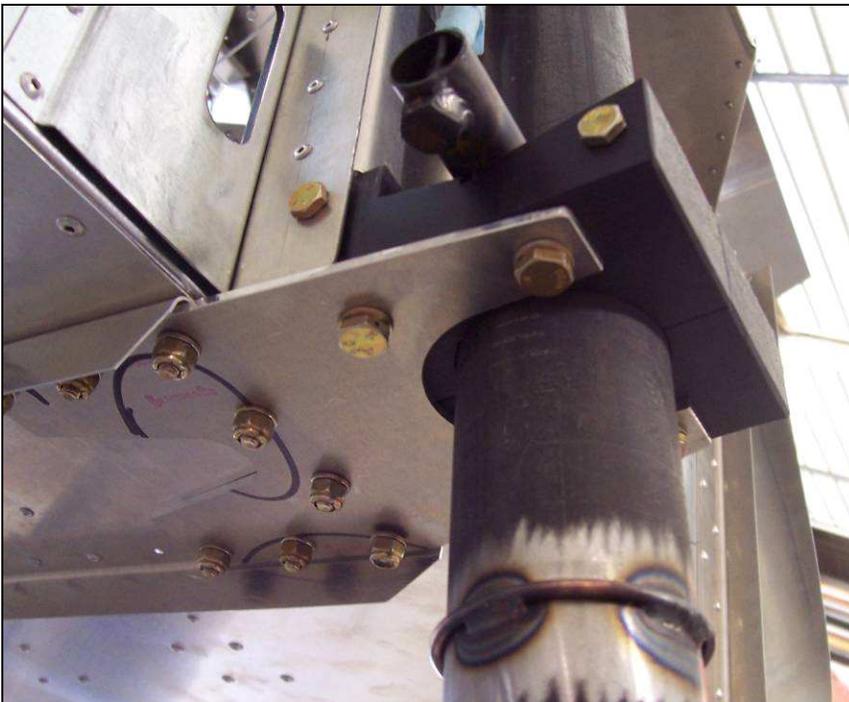
Remove the Bottom Bearing and Nose Gear Leg from the Firewall. Flip the Bottom Bearing over and use a couple pieces of plywood to support the front of the Bottom Bearing. Use a ¼"-28 tap, to tap the holes just drilled for AN4H-5A bolts. Be careful when tapping the threads; be sure the tap is perpendicular to the bottom of the Bearing.



Make a drill guide for the Lower Bearing from a piece of scrap material. Be sure the scrap material is flush at the bottom and rear of the Bearing. With a #12 drill bit, back drill through the Bearing into the scrap, be sure to drill both holes.



Use an AN3 bolt at the front of the Bearing to hold the drill guide in place. Set the bottom of the drill guide on the Lower Bearing Support and overlap the outside of the Center Firewall Stiffener. With a #12 drill bit, back drill through the drill guide into the Center Firewall Stiffener. Bolt the two halves of the Bottom Bearing together and to the Center Firewall Stiffener.



Safety wire across the bolts

Bolt the Bearing to the Lower Bearing Support and safety wire the heads of the bolts to prevent them from backing out.