

Installation of the P-162 Roller Bearings into the Edison Motor Frame Stem

1. Needed: one 5/16" bolt, two hex nuts to fit.



2. Cut the bolt to a length of 2 1/4 inches and clean the ends so that nuts will easily thread on. Then also supply two small washers for the bolt, and two or three LARGE washers whose center hole is large enough for the *roller bearing* to slip through.



3. After the stem hole is thoroughly cleaned, slide the shortened bolt through the stem hole, then slide one roller bearing on the left side over the bolt, then a small washer, then a nut. On the right side of the stem, slide over the bolt a small washer then the second nut. Snug the bearing directly over the stem hole and turn the right nut to tighten and center align the bolt. Use a wrench to continue turning the right nut. This causes the bearing to be forced into the stem hole. Leave 1/16th inch of the bearing exposed on the left side. Remove the nuts and washers.



4. Now slip one or two large washers over the bearing on the *left* side (washers "ride" over the bearing), then a small washer, then a nut. On the right side, slip on the second bearing, then a small washer and the second nut. Align the bearing over the hole and turn the right nut causing the bearing to be forced into the stem hole from the right. Continue turning the nut until the right bearing meets the left bearing. Then remove all parts except the installed bearings. (Suggestion: save these parts for a future job like this.)



5. When done, the bearings should be visible like this. A couple drops of light oil through the top hole will be helpful.



6. The top oiling hole can be closed with an appropriate screw, but is NOT to press against the bearings. All done. Congratulations! Enjoy!

