Bearing Removal

1. Using A Drill Press

   "Chuck" the 1/2 inch diameter end on the 2-1/2 inch long bearing remover, and tighten. Make sure that the wheel assembly is perpendicular to the tool and the base of the wheel is supported by the support ring (page 9-7). Lower the chuck with the bearing remover (see Figure 9-2) and gently push the bearing out through the bottom.

2. Using an Arbor Press

   As with the drill press method, the wheel assembly must be supported with the support ring. Because there is no check on the arbor press, the bearing remover must be aligned by eye, perpendicular to the bearing. Gently push the bearing out through the bottom.

3. Using a Soft-Nose Hammer

   Using the support ring, insert the bearing at the top and gently tap until the bearings clear the bottom.

Bearing Installation

1. Using a Drill Press

   Chuck the bearing seating tool (page 9-8) into the drill with the one inch surface facing down toward the tape timer wheel (see Figure 9-3). Place the bearing on the 1/4 inch shaft portion of the tool, lightly holding it against the flat portion of the tool. This insures that the bearing will enter the wheel bore without being cocked. Lower the chucked tool into the bore and seat the bearing flush with the bottom of the timer wheel. Next, reverse the tool in the chuck and, turning the wheel over with the skirted side down (see Figure 9-4), place a bearing over the shaft as described above. Lower the chucked tool again until the tool bottoms on the one inch flat. This will seat the bearing .280 inch ± 0.002 inch deep.

2. Using an Arbor Press and the Soft-Nose Hammer

   The same principle applies as in using the drill press; however, extreme caution must be used to start the bearing into the bore absolutely straight. Also included are the drawings of the individual piece parts needed for replacement of bearings.