

Fig. 6—Removing Drive Shaft Assembly

(15) Clamp drive shaft in soft jawed vise, with rotor and thrust plate facing up.

(16) Remove rotor lock ring, pry ring off drive shaft using a screw driver (Fig. 8). Exercise care to avoid nicking the rotor end face. Discard ring.

(17) Slide rotor and thrust plate off of shaft and remove shaft from vise.

Inspection

(1) Wash all parts in clean solvent, blow out all passages with compressed air and air dry cleaned parts.

(2) Inspect drive shaft for excessive wear and seal area for nicks or scoring. Replace if necessary.

(3) Inspect fit of vanes in rotor. Vanes must slide freely in slots of rotor without binding. Excessively loose vanes require replacement of rotor and/or vanes. Binding can be relieved by cleaning or removal of burrs with a thin fine file.

(4) Inspect flat surfaces of pressure and thrust plates for wear or scoring. Light scoring can be removed by lapping on a flat surface. Remove all lap-

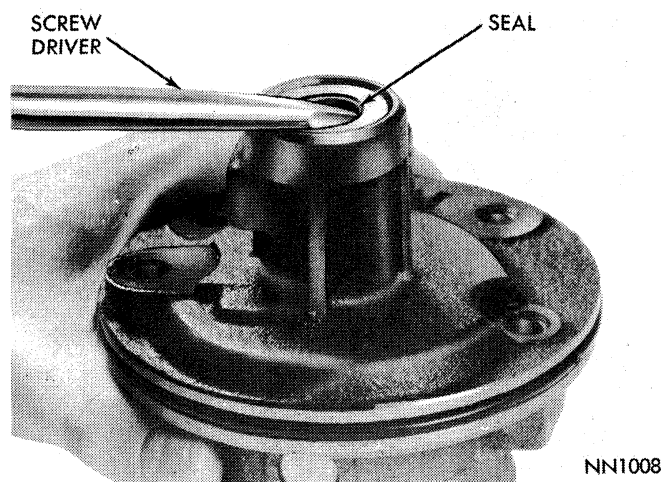


Fig. 7—Oil Seal Removal

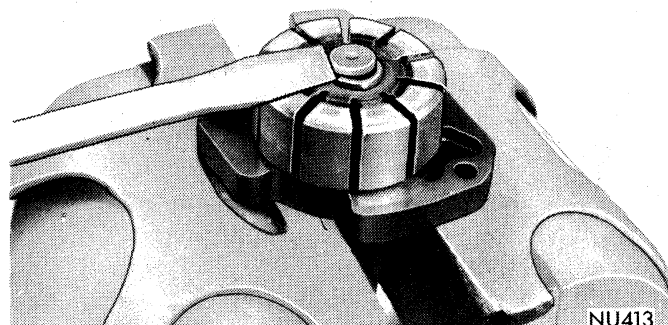


Fig. 8—Removing Rotor Lock Ring

ping compound thoroughly before reassembly.

(5) Inspect inner surface of cam ring for heavy scuff or chatter marks. Replace if necessary. Light score or scuff marks can be removed by polishing with a small, flat oil stone.

(6) Inspect end cover for nicks or burrs on surface contacting "O" ring and remove with a fine stone.

(7) Inspect pump body drive shaft bushing for excessive wear. Replace pump body and bushing as an assembly if badly worn or scored.

Assembly

(1) Place pump body on flat surface and drive new drive shaft seal into bore with a 7/8 or 15/16 inch socket till seal bottoms on shoulder (Fig. 9).

CAUTION: Excessive force will distort the seal.

(2) Lubricate seal with power steering fluid and clamp pump body in vise, (shaft end down).

(3) Install end cover and pressure plate "O" rings in grooves in pump cavity. These rings are the same size. Lubricate with power steering fluid.

(4) With drive shaft clamped splined end up in soft jawed vise, install thrust plate on drive shaft (smooth, ported side up) (Fig. 10).

(5) Slide rotor over splines with the counterbore of rotor facing down. Using Tool C-4090, install rotor

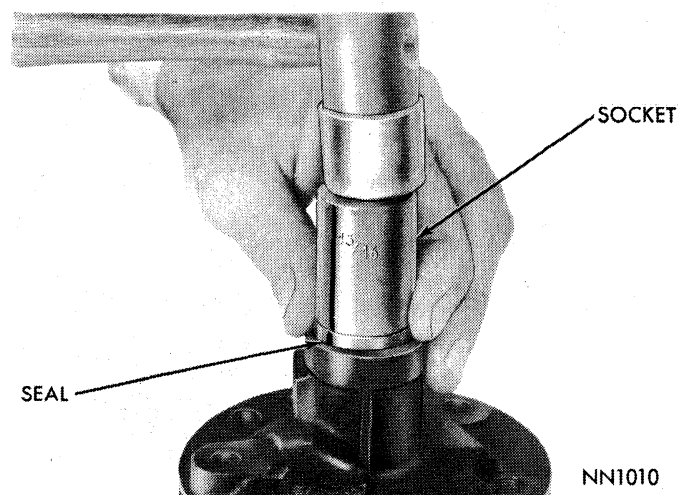


Fig. 9—Oil Seal Installation