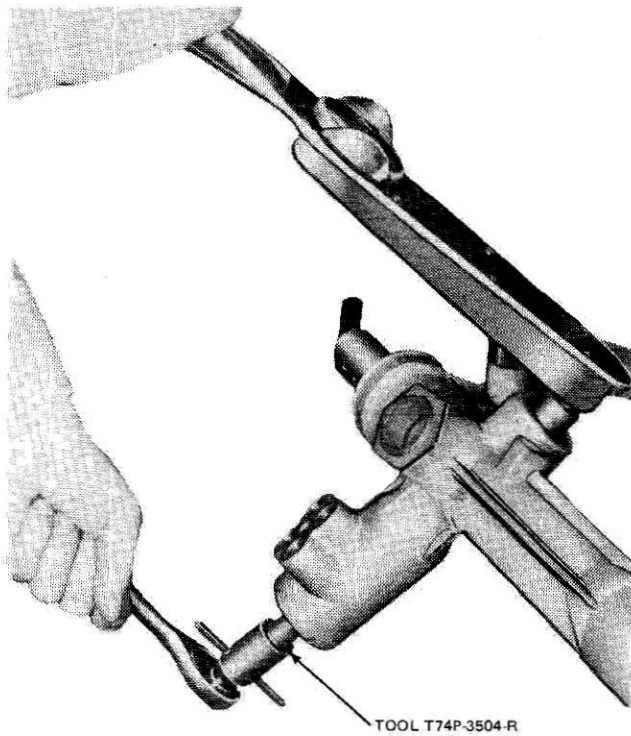
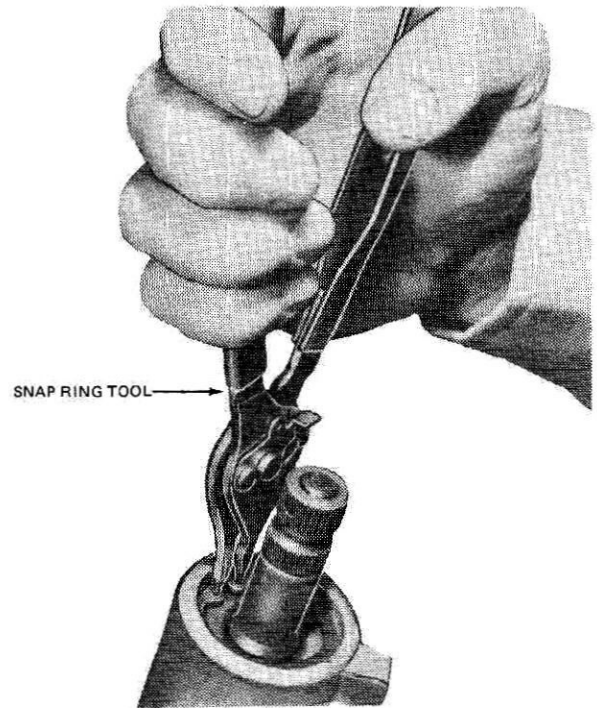




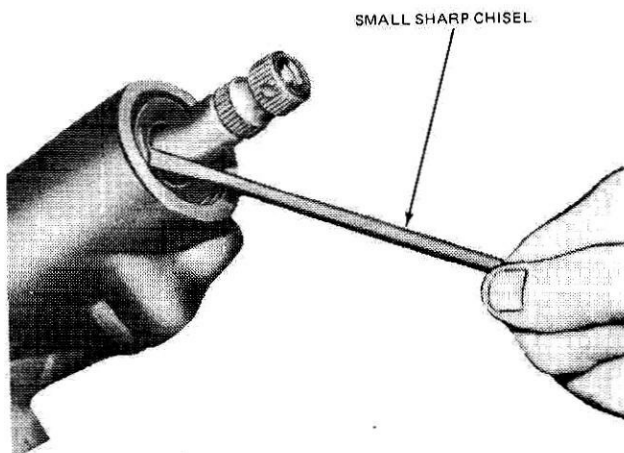
G2728-1A

FIG. 13 Removing/Installing Pinion Bearing Locknut



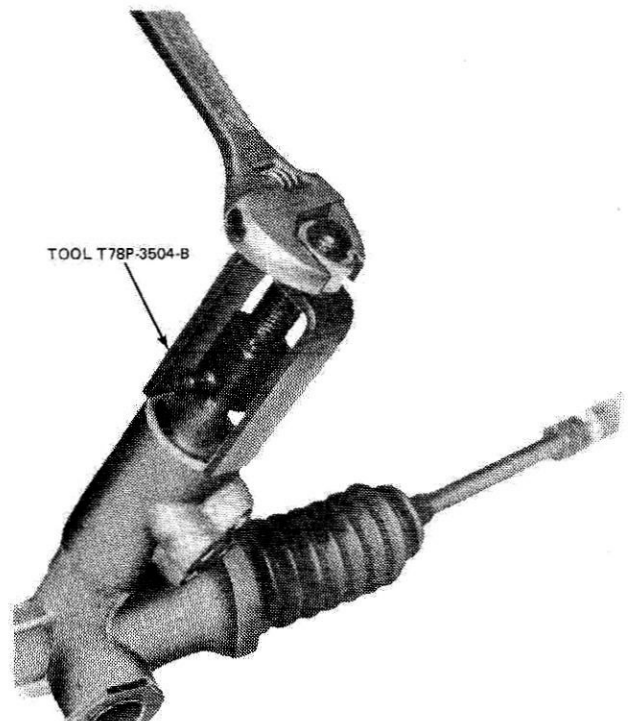
G2730-1A

FIG. 15 Removing/Installing Snap Ring



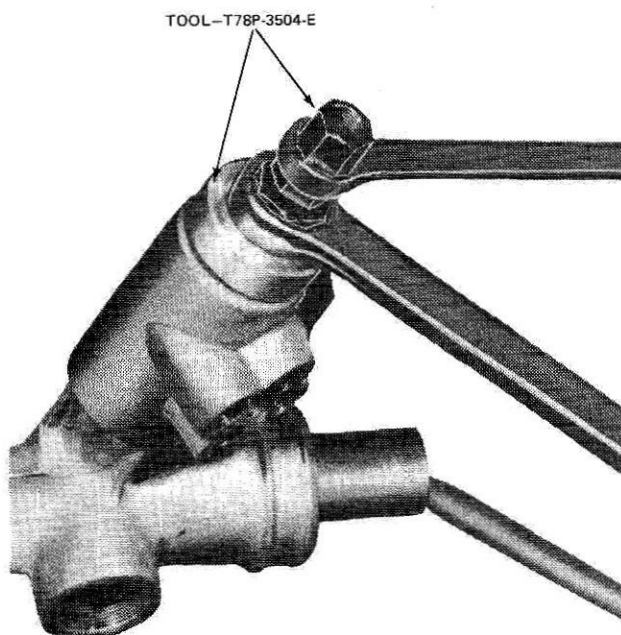
G2729-1A

FIG. 14 Removing Input Shaft Dust Seal



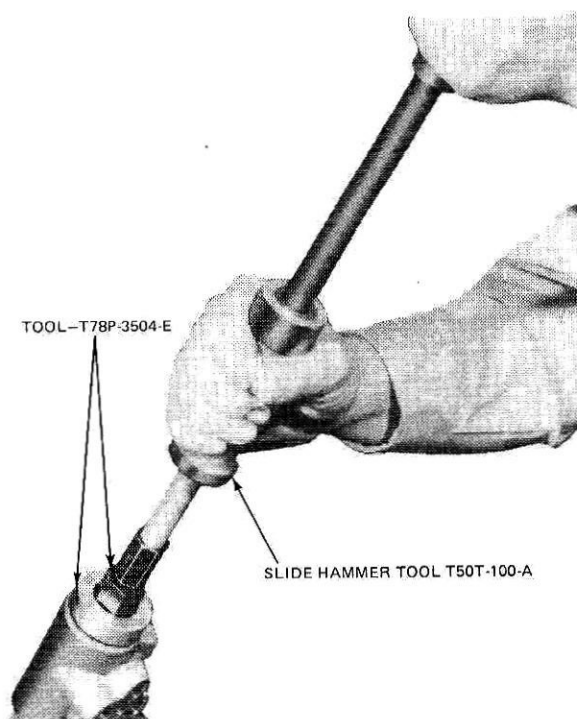
G2731-1A

FIG. 16 Removing Input Shaft/Control Valve Assembly From Valve Housing



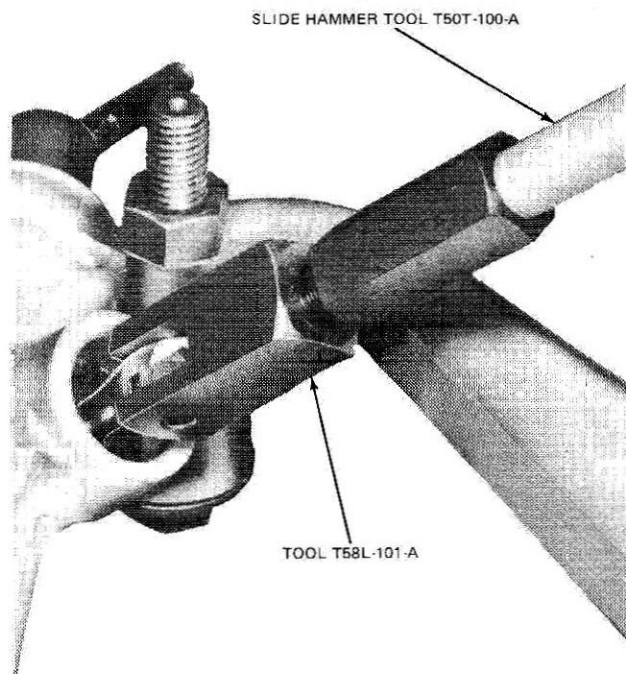
G2732-1A

FIG. 17 Activating Expander of Pinion Seal Remover Tool T78P-3504-E



G2733-1A

FIG. 18 Removing Lower Pinion Shaft Seal



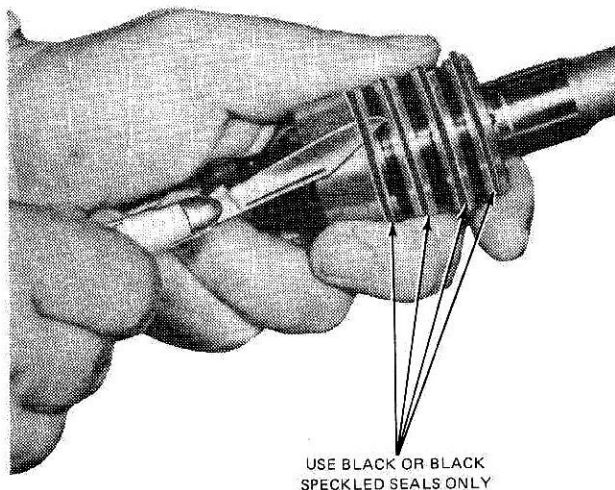
G2734-1A

FIG. 19 Removing Pinion Bearing

12. The only serviceable components of the input shaft and valve assembly are the four plastic O-rings. Remove the O-rings by pushing the rings to one side and inserting a small pointed pocket knife under each ring and cutting it off (Fig. 20). Use care not to scratch the valve sleeve.

Assembly

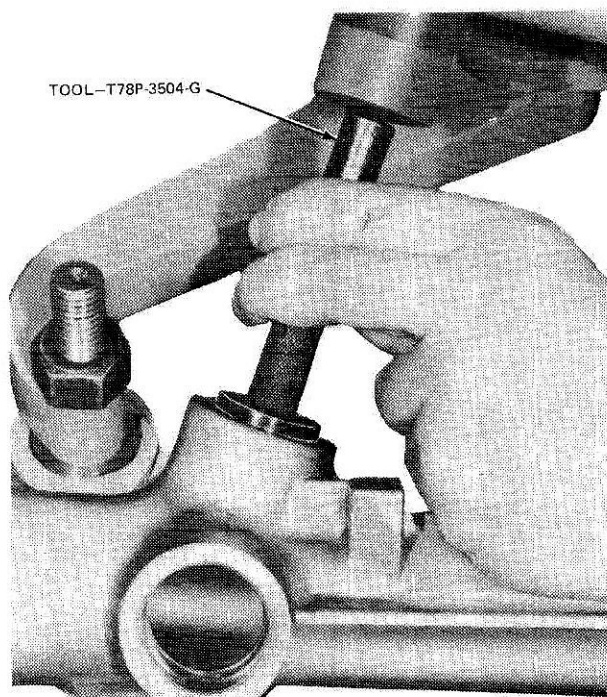
1. Install steering gear pinion bearing in gear housing using installation Tool, T78P-3504-G (Fig. 21). Seat the bearing against the shoulder in the bore (Fig. 22). Support valve housing with a wooden block when seating pinion bearing.
2. Apply grease to pinion oil seal and place on installation Tool, T78P-3504-F with seal lip towards tool (Fig. 23). Install seal in the valve bore, seating it against shoulder.
3. Mount the pinion end of the valve assembly into a soft jawed vise.
4. Install mandrel Tool, T75L-3517-A1 over the sleeve; slide one valve sleeve ring over the tool (Fig. 24).
5. Slide the pusher Tool, T75L-3517-A2 over the mandrel; rapidly push down on the pusher tool, forcing the ring down the ramp and into the fourth groove of the valve sleeve. Repeat this step three more times, and each time, add one of the spacers, Tool T75L-3517-A3, under the mandrel tool. By adding the spacer each time, the mandrel tool will line up with the next groove of the valve sleeve.
6. After installing the four valve sleeve rings, apply a light coat of gear lubricant to the sleeve and rings.



USE BLACK OR BLACK
SPECKLED SEALS ONLY

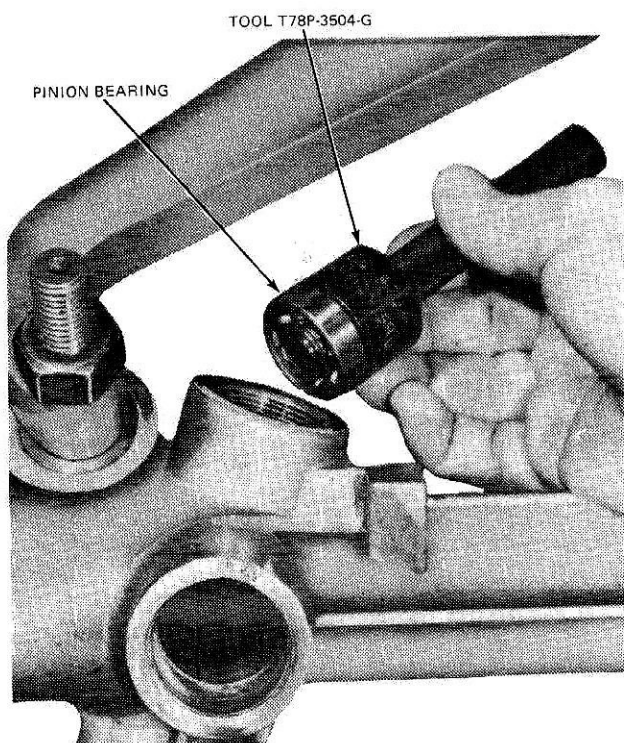
G2735-1A

FIG. 20 Removing Valve Sleeve Rings



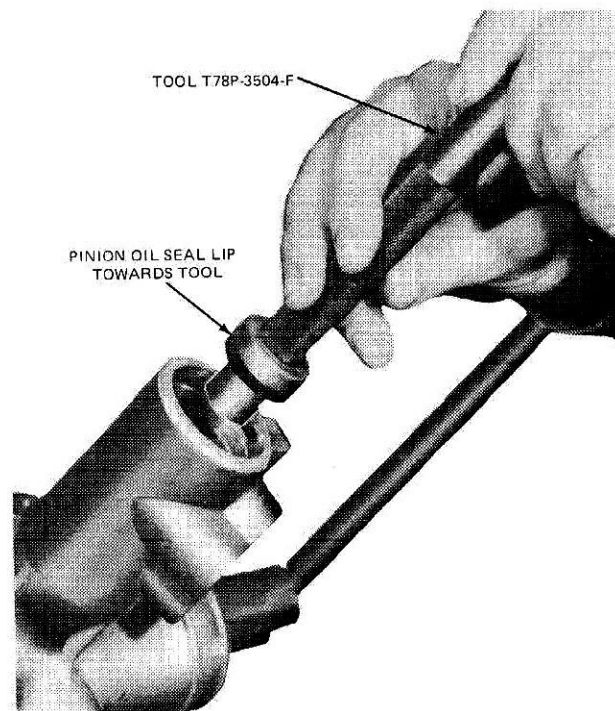
G2737-1A

FIG. 22 Seating Pinion Bearing



G2736-1A

FIG. 21 Installing Pinion Bearing



G2738-1A

FIG. 23 Installing Pinion Oil Seal