

TC PUMP

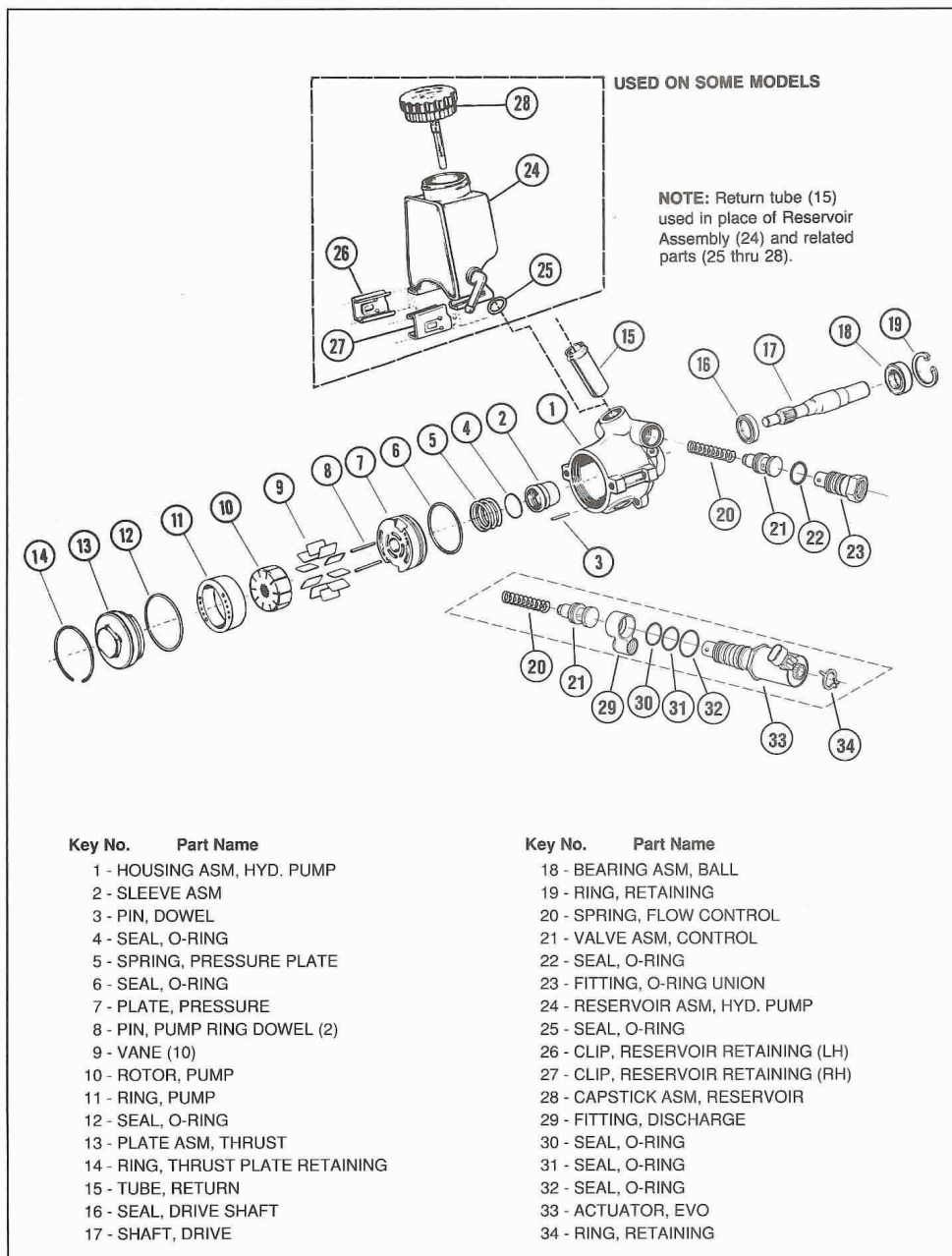


Figure 1 Typical TC Pump Assembly

→← Install or Connect
(Figures 1, 6, 7, 8)

1. Lubricate new drive shaft seal (16) with power steering fluid.
 - Seal (16) into pump housing (1) using suitable socket.
2. Ball bearing (18) to drive shaft (17).
 - Press bearing to shoulder of drive shaft or clearance measured prior to removal of old bearing.
 - Shaft (17) and bearing (18) into housing assembly (1). Rotate drive shaft so shaft serration engages with pump rotor (10).
3. Retaining ring (19) to housing (1).
4. Pump assembly to vehicle.

ROTATING GROUP AND SLEEVE ASSEMBLY

←→ Remove or Disconnect
(Figures 1, 4, 5, 9, 10, 11)

1. Perform steps 1 through 3 of Drive Shaft Assembly, Remove or Disconnect.
2. Thrust plate retaining ring (14) from housing (1).
3. Thrust plate (13) using a 5/8" piece of bar stock or suitable brass drift. Press on pressure plate hub from drive shaft side of housing (1).
4. O-ring seal (12).
5. Pump ring (11).
6. Pump rotor (10).
7. Ten vanes (9).
8. Two pump ring dowel pins (8).
9. Pressure plate (7). It may be necessary to use press to remove pressure plate.
10. O-ring seal (6) from pressure plate (7).
11. Pressure plate spring (5).

12. Dowel pin (3).
13. O-ring seal (4) from sleeve assembly (2).
14. Sleeve assembly (2) using punch on drive shaft side of housing (1).

Clean

- All parts in power steering fluid.
- Dry parts.

Inspect

- Pressure plate (7).
- Vanes (9).
- Pump ring (11).
- Drive shaft (17) and splines.
- Ball bearing (18).
- For scoring, pitting, or chatter marks.
- If noted, replace appropriate parts.

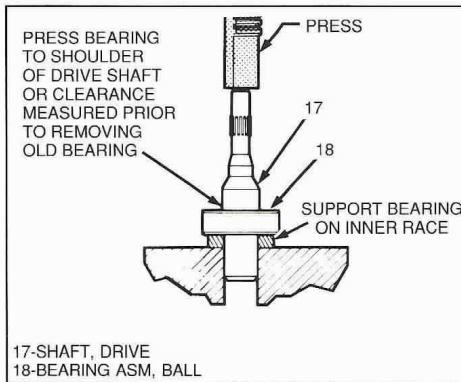


Figure 7 Ball Bearing onto Drive Shaft

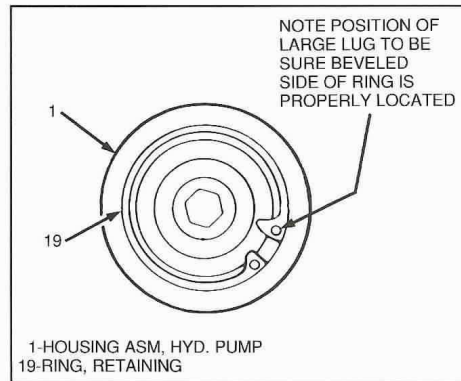


Figure 8 Drive Shaft Retaining Ring Installation

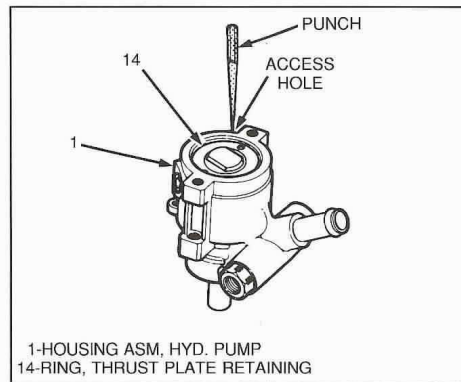


Figure 9 Retaining Ring Removal

Install or Connect
(Figures 1, 6, 7, 8, 12, 13, 14, 15, 16, 17)

1. New sleeve assembly (2) using a suitable socket and press to seat sleeve assembly into housing (1) from pressure plate side.
2. Lubricate new o-ring seal (4) with power steering fluid.
 - O-ring seal (4) into groove in sleeve assembly (2).
3. Dowel pin (3) into housing (1).
4. Pressure plate spring (5).
5. Lubricate new o-ring seal (6) with power steering fluid.
 - O-ring seal (6) into groove in pressure plate (7).
6. Mark top of pressure plate (7) directly over dowel pin hole in plate. This will help line up hole with dowel pin (3) to ensure dowel pin and hole in pressure plate engage properly.
 - Pressure plate (7).
7. Two pump ring dowel pins (8).
8. Pump rotor (10). Counterbore must face drive shaft end of housing (1).
 - Ten vanes (9) into slots in pump rotor (10).
9. Pump ring (11) over dowel pins (8).
10. Lubricate new o-ring seal (12) with power steering fluid.
 - O-ring seal (12) into groove in pump housing (1).
11. Lubricate outer edge of thrust plate assembly (13).
 - Thrust plate assembly (13). Dimples in thrust plate must line up with bolt holes in housing and ensure thrust plate engages pump ring dowel pins.
12. Press on thrust plate (13) far enough to install retaining ring (14).
 - Retaining ring (14) into groove in pump housing (1), with ring opening centered with bolt hole in housing (1) nearest to access hole.
13. Perform steps 2 through 4 of Drive Shaft Assembly, Install or Connect.

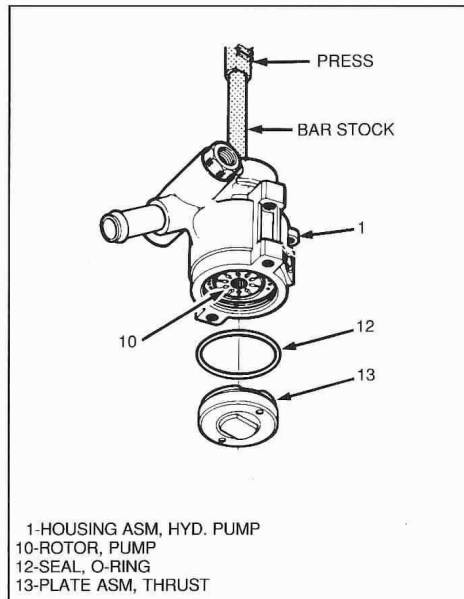


Figure 10 Thrust Plate Removal

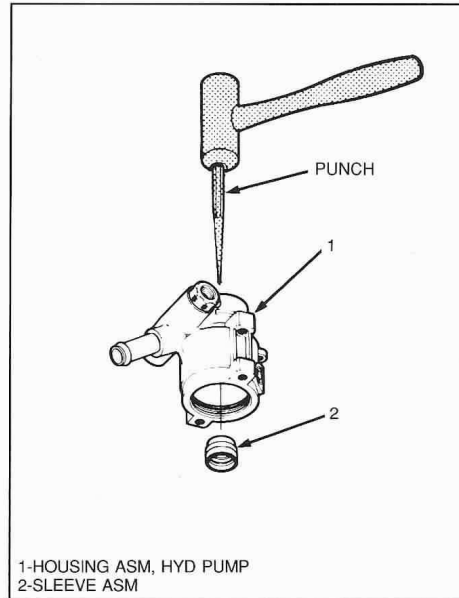


Figure 11 Sleeve Assembly Removal

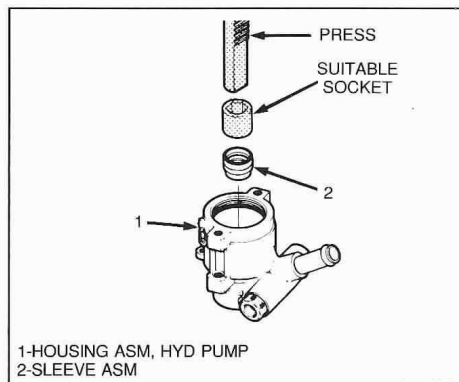


Figure 12. Sleeve Assembly Installation

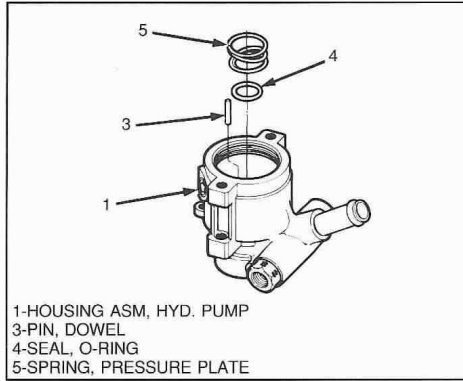


Figure 13 O-ring Seal, Spring, and Dowel Pin Installation

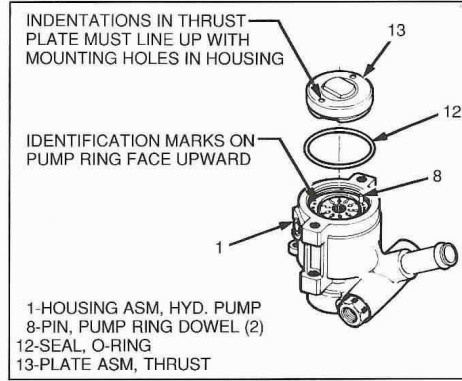


Figure 16 O-ring Seal and Thrust Plate Installation

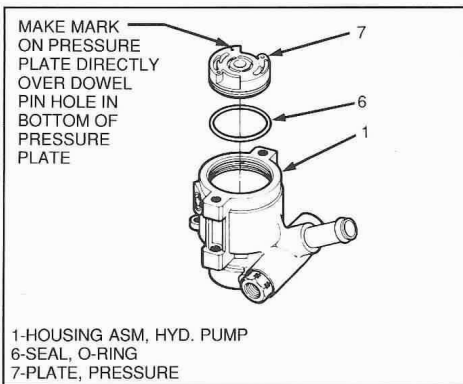


Figure 14 O-ring Seal and Pressure Plate Installation

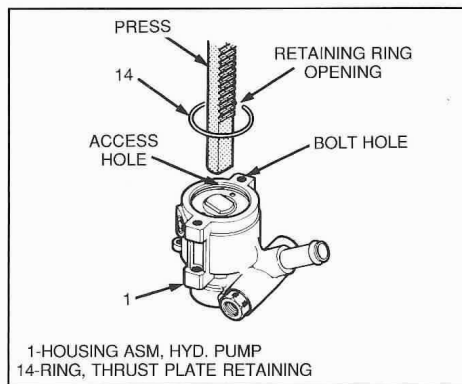


Figure 17 Thrust Plate Retaining Ring Installation

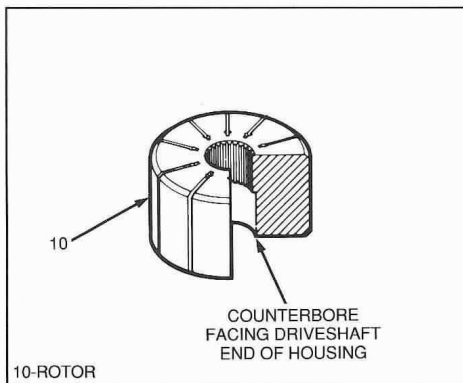


Figure 15 Rotor Installation