

nut on the gear shaft and tighten the tool nut until the shoulder of the tool adapter contacts the gear housing.

(7) Remove the tool nut and adapter and install the seal back-up washer and oil seal snap ring with the sharp edge out.

(8) Position the grease retainer in the housing bore; place tool adapter SP-3828 with short step of lip against the seal (Fig. 24). Install tool nut on the gear shaft and tighten the tool nut until the shoulder of the tool adapter contacts the gear housing.

(9) Place the steering gear and front wheels in the

straight ahead position and install the steering gear arm and nut.

(10) Tighten the steering gear arm nut to 120 foot-pounds.

WORM SHAFT OIL SEAL REPLACEMENT

The worm shaft oil seal replacement requires removal of the steering gear assembly from the vehicle. Refer to "Gear Removal."

(1) Remove the oil seal with Tool C-3638 (Fig. 25).

(2) Drive the new oil seal in place (lip of seal toward housing head) with Tool C-3650 (Fig. 26).

POWER STEERING PUMP

Description

The slipper type power steering pump is a belt-driven constant displacement pump.

In operation (Fig. 1) the spring-loaded slippers in the pump rotor are in contact with the eccentric, inside diameter of the housing. As the rotor revolves the slippers forces the oil from the inlet side of the pump to the flow control valve. Orifices permit a flow

of approximately two gallons per minute to the gear before the valve moves to the left to allow the excess to flow back to the inlet side of the pump. Maximum pressure in the system is limited by the pressure relief valve. The valve opens into the reservoir when the pressure exceeds the maximum pressure specified.

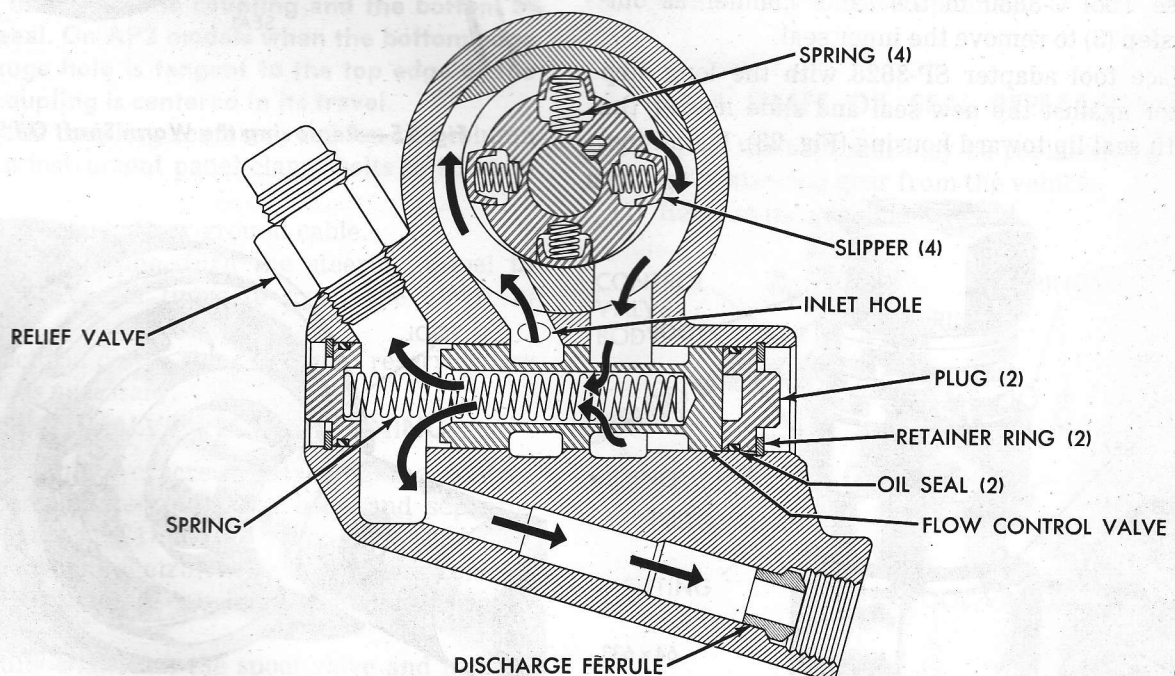


Fig. 1—Power Steering Pump (Schematic)
(.96 Cu. In. Displacement Shown)