



## POWER STEERING PUMP INSTALLATION: 60-6746R

### Models:

1997-2002 Dodge Ram 2500 & 3500 Pickup w 5.9L Diesel Engine, both (2WD & 4WD)

### Symptoms:

Oil leaks may develop between the power steering pump and the vacuum pump after replacing the power steering pump.

### Cause:

Improper installation of the power steering pump may cause damage to the vacuum pump oil seal. *(ref 4)*

### Remedy:

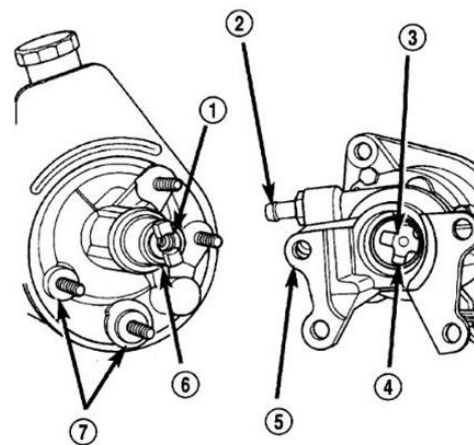
Follow the procedure below when removing and installing the old power steering pump.

### Removal of power steering pump:

- ❖ Use caution when sliding the power steering pump back from the vacuum pump so that not damage the oil seal in the vacuum pump. *(ref 4)*
- ❖ Remove the two mounting spacers and retain them as these will be needed when installing the replacement steering pump. *(ref 7)*

### Installation of replacement Pump:

- ❖ Install the two mounting spacers from the original steering pump to the replacement pump *(ref 7)*
- ❖ Rotate the steering pump shaft *(ref 1)* to line up the adapter to the vacuum pump drive *(ref 3)*
- ❖ Install the steering pump onto the vacuum pump mounting bracket. *(ref 5)* Be careful when mounting the steering pump to the vacuum pump to avoid damaging the oil seal. *(ref 4)* Ensure the steering pump with spacers is mounted securely with the vacuum pump mounting bracket.
- ❖ After the steering pump is installed to the vacuum pump, add the steering pump nuts, and tighten them to 18ft. pounds
- ❖ Align and install pump assembly onto the engine. Be sure to use new a gasket, and sealer if necessary to hold the gasket in place. Ensure that the steering pump stud is inserted into the engine block bracket before tightening the bolts. Tighten the pump to block bolts to 57 ft. pounds
- ❖ Tighten steering pump to mounting bracket nuts to 18 ft. pounds
- ❖ Reinstall the pressure and return hoses to the power steering pump. Tighten the pressure fitting at the pump to 23 ft. pounds
- ❖ Refill with fresh OE Approved PS Fluid, check for leaks, and bleed the system of any air.



- 1 - PUMP SHAFT
- 2 - VACUUM FITTING
- 3 - VACUUM PUMP DRIVE
- 4 - OIL SEAL
- 5 - MOUNTING BRACKET
- 6 - DRIVE DOG
- 7 - PUMP SPACERS