STEERING

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GENERAL INFORMATION

POWER STEERING PUMP

The power steering pump used with the 2.5L VM Diesel engine operates the same way as the power steering pump used with the 2.5/4.0L gasoline engines. Refer to the Description and Operation section for the 2.5/4.0L gasoline engine power steering pump for more information.

STEERING GEAR OPERATION—RHD & LHD VEHICLES

NOTE: The power steering gear should NOT be serviced or adjusted. If a malfunction or oil leak occurs, the complete steering gear should be replaced.

Refer to the Power Steering Gear in group 19 for more information

POWER STEERING GEAR

SERVICE PROCEDURES

POWER STEERING PUMP – INITIAL OPERATION

WARNING: THE FLUID LEVEL SHOULD BE CHECKED WITH ENGINE OFF TO PREVENT INJURY FROM MOVING COMPONENTS.

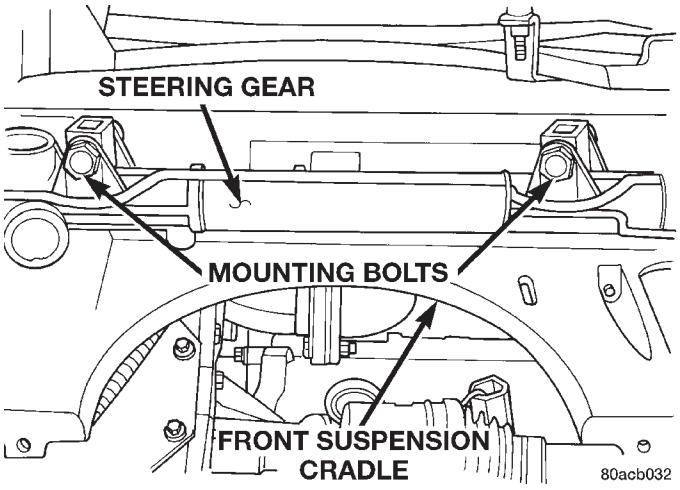

Fig. 1 Power Steering Gear—RHD Vehicles

CAUTION: Use MOPAR Power Steering Fluid or equivalent. Do not use automatic transmission fluid and do not overfill.

Wipe filler cap clean, then check the fluid level. The dipstick should indicate **COLD** when the fluid is at normal temperature.

(1) Fill the pump fluid reservoir to the proper level and let the fluid settle for at least two minutes.

(2) Start the engine and let run for a few seconds then turn engine off.

(3) Add fluid if necessary. Repeat the above procedure until the fluid level remains constant after running the engine.

SERVICE PROCEDURES (Continued)

(4) Raise the front wheels off the ground.
(5) Slowly turn the steering wheel right and left, lightly contacting the wheel stops at least 20 times.
(6) Check the fluid level add if necessary.
(7) Lower the vehicle, start the engine and turn the steering wheel slowly from lock to lock.
(8) Stop the engine and check the fluid level and refill as required.
(9) If the fluid is extremely foamy or milky looking, allow the vehicle to stand a few minutes and repeat the procedure.

CAUTION: Do not run a vehicle with foamy fluid for an extended period. This may cause pump damage.

REMOVAL AND INSTALLATION

POWER STEERING PUMP—2.5L DIESEL

NOTE: The power steering pump is mounted below the fuel pump on the left side of the engine. The vehicle should be raised on a hoist to access the pump from below.

REMOVAL

(1) Remove serpentine drive belt. Refer to Group 7, Cooling System, for procedure.
(2) Remove power steering pump pulley. Use a hex wrench to secure the power steering shaft while removing the pulley bolt with a box wrench. (Fig. 2)

CAUTION: Do not use an impact wrench to remove the pump pulley – this can cause rear pump seal damage. Do not secure power steering shaft with a wrench on the coupling to the A/C compressor – this can cause rear pump seal damage.

(3) Remove coupling bolts (2) from A/C compressor side of coupling.
(4) Loosen A/C compressor bolts and separate compressor from bracket. Do not disconnect A/C hoses.
(5) Remove bolts (2) securing the power steering pump to the power steering bracket.
(6) Disconnect power steering pump supply hose at the pump and drain fluid.
(7) Disconnect power steering pressure hose at the steering gear assembly.
(8) Remove power steering pump.

INSTALLATION

(1) Install pump on engine.
(2) Tighten pump bracket bolts to 47 N·m (35 ft. lbs.).

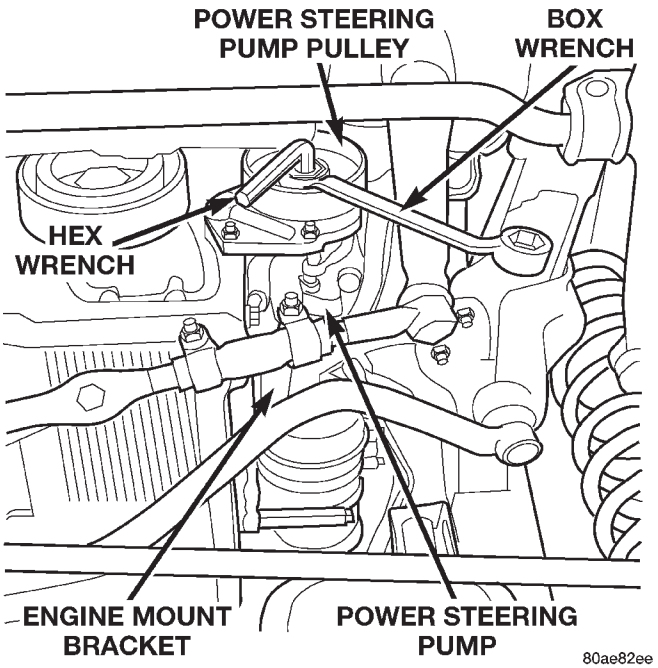

Fig. 2 Power Steering Pump Pulley Removal

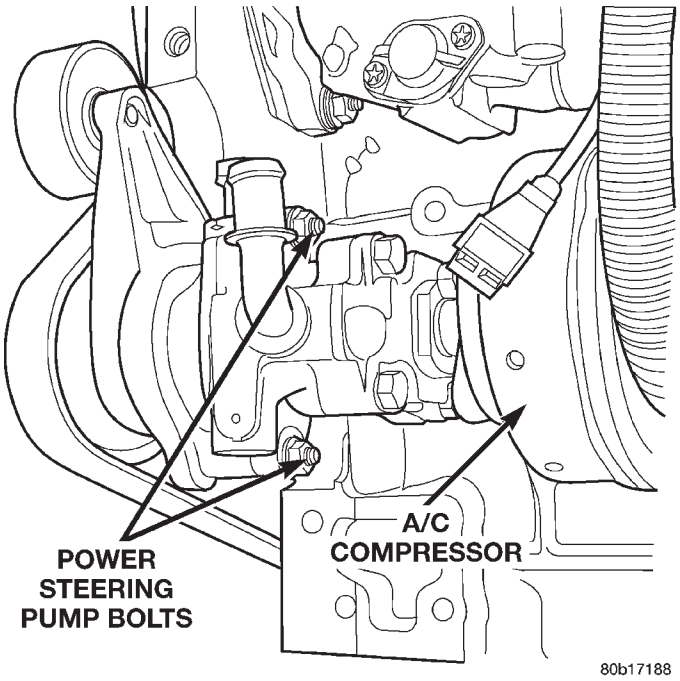

Fig. 3 Left SIde Motor Mount—VM DIesel

(3) Reverse the above procedures in steps 8 through 1 to complete installation.
(4) Add power steering fluid and perform Power Steering Pump Initial Operation.