



**Haynes**  
shows you how

**BMW 3-Series and Z4 (99-05) Includes 2006 325ci/330ci Coupe and Convertible models Haynes Online Manual.**

## 22 Power steering pump - removal and installation

### Note:

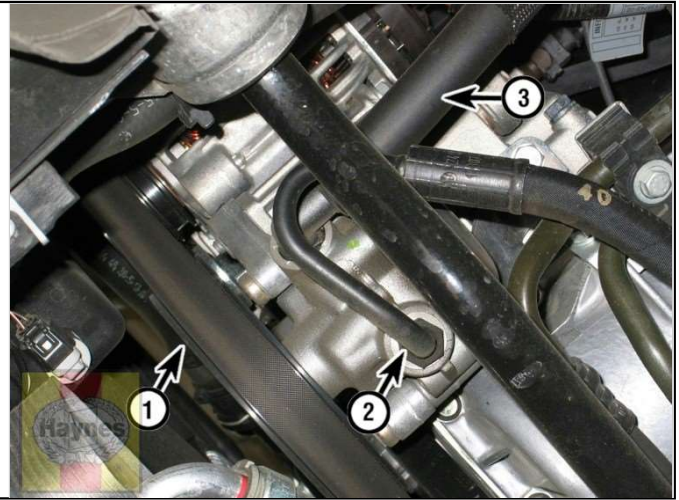
New pressure line fitting bolt sealing washers (if equipped) will be required on installation

### Removal

- 1 Chock the rear wheels, then raise the front of the vehicle and support it securely on jackstands (see *Jacking and towing* ). Remove the screws and remove the engine splash shield.
- 2 Loosen the drivebelt pulley fasteners but don't remove them.
- 3 Release the drivebelt tension and unhook the drivebelt from the pump pulley (see [Chapter 1](#) ).
- 4 Remove the drivebelt pulley.
- 5 Using brake hose clamps, clamp both the supply and return hoses near the power steering fluid reservoir. This will minimize fluid loss during subsequent operations.
- 6 Mark the pressure line fitting in relation to the pump to ensure it is correctly positioned when reinstalled. Loosen and remove the line fitting bolt and recover the sealing washers (if equipped) (see *illustration* ) . Remove the feed hose clamp and then the hose itself. Be prepared for fluid spillage and position a suitable container beneath the line and hose while removing them. Plug the line/hose ends and steering pump orifices to prevent fluid leakage and to keep dirt out of the hydraulic system. **Note:** *Later models use line fittings that do not use bolts to mount to the pump. These types of lines should be removed with a flare nut wrench.*

## 22.6 Power steering pump details (2004 M56 model shown - others similar)

- 1 Drive pulley
- 2 Pressure line
- 3 Feed hose



7 Loosen and remove the mounting bolts and then remove the pump.

8 If the power steering pump is faulty, seek the advice of your BMW dealer as to the availability of spare parts. If spares are available, it may be possible to have the pump overhauled by a specialist, or alternatively obtain an exchange unit. If not, the pump must be replaced.

## Installation

9 Where necessary, transfer the rear mounting bracket to the new pump, and securely tighten its mounting bolts.

10 Prior to installation, ensure that the pump is primed by injecting the specified type of fluid in through the feed hose orifice and rotating the pump shaft.

11 Place the pump in position and reinstall the mounting bolts, tightening them to the specified torque.

12 Position a new sealing washer on each side of the line fitting and reinstall the bolt. Tighten the bolt to the specified torque.

13 Remove the hose clamps and reinstall the pump pulley. Ensure the pulley is facing the correct way and securely tighten its retaining bolts.

14 Reinstall the drivebelt and tension it as described in [Chapter 1](#) .

15 On completion, lower the car to the ground and bleed the hydraulic system as described in [Section 23](#) .