

**Haynes**
shows you how

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

8 Water pump - removal and installation

Warning:

Do not allow antifreeze to come in contact with your skin or painted surfaces of the vehicle. Rinse off spills immediately with plenty of water. Antifreeze is highly toxic if ingested. Never leave antifreeze lying around in an open container or in puddles on the floor; children and pets are attracted by it's sweet smell and may drink it. Check with local authorities about disposing of used anti-freeze. Many communities have collection centers which will see that antifreeze is disposed of safely. Never dump used anti-freeze on the ground or into drains.

Note:

Non-toxic coolant is available at most auto parts stores. Although the coolant is non-toxic, proper disposal is still required.

Note:

A new sealing ring will be required on installation.

Removal

- 1 Drain the cooling system (see [Chapter 1](#)).
- 2 Remove the cooling fan (see [Section 5](#) or 6).
- 3 Loosen the water pump pulley bolts (see illustration) then remove the auxiliary drivebelt (see [Chapter 1](#)).

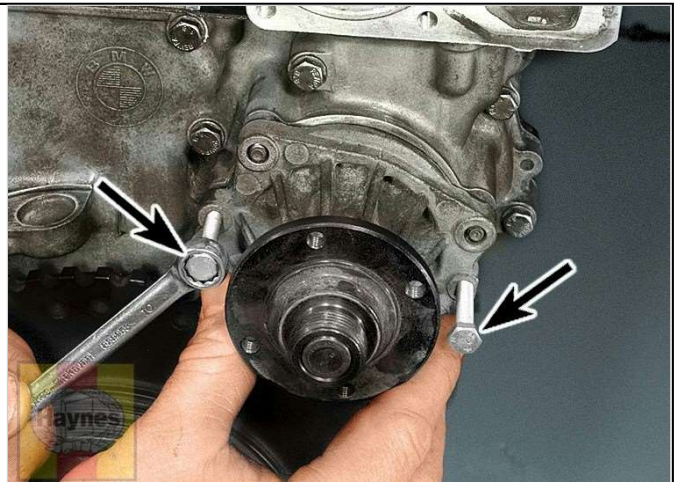
8.3 Remove the water pump pulley bolts (if necessary, wedge a screwdriver between one of the bolts and the hub to prevent it from turning)



4 Unscrew the retaining bolts/nuts and remove the pulley from the pump, noting which way around it is installed.

5 Loosen and remove the pump retaining bolts/nuts (as applicable) and withdraw the pump. If the pump is a tight fit, screw two M6 bolts into the jacking holes on either side of the pump and use the bolts to draw the pump out of position (see illustration) .

8.5 If the water pump is a tight fit, separate the pump using two jacking bolts



6 Recover the sealing ring from the rear of the pump (see illustration) .

8.6 Recover the sealing ring from the rear of the water pump



Installation

7 Install the new sealing ring to the rear of the pump and lubricate it with a smear of grease to ease installation.

8 Place the pump in position and reinstall the retaining bolts/nuts. Tighten the bolts/nuts evenly and progressively to the torque listed in [this Chapter's Specifications](#), making sure the pump is drawn squarely into position.

9 Reinstall the pulley to the pump, making sure it is the correct way around, and screw in its retaining bolts. Tighten the bolts to the torque listed in [this Chapter's Specifications](#).

10 Reinstall the drivebelt as described in [Chapter 1](#) then securely tighten the pulley bolts.

11 Reinstall the cooling fan assembly (where applicable) as described in [Section 5](#) or 6.

12 Refill the cooling system (see [Chapter 1](#)).

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