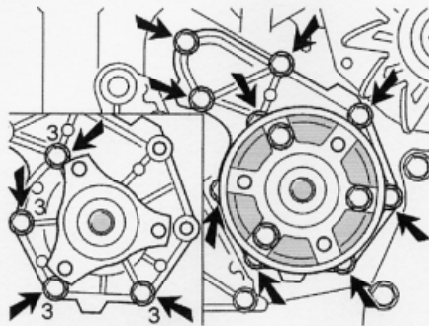
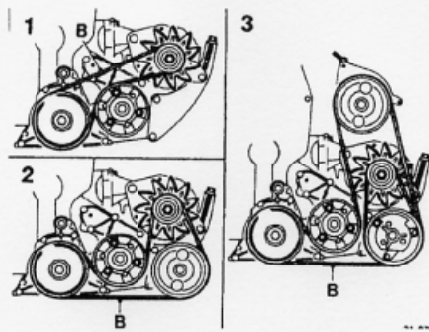


Removing/fitting the water pump and auxiliary water pump

Special tools: **999 5434** , **999 5436**



Preliminary operations

Remove the engine splash guard and the timing case cover.

Drain the cooling system. Close the tap immediately after draining the system; see Operation [Pressure-testing the cooling system, topping-up/changing coolant](#) .

Remove the water pump Poly V-belt

Slacken the adjusting nut (1) and the retaining bolts (2).

Remove/fit the water pump

Removal:

Release the bolts (9x) (four of the bolts cannot be removed) and remove the water pump from under the engine compartment. Remove the water pump drive gear. Remove the remaining four bolts.

Fitting:

Locate the four bolts (1).

Fit the water pump drive gear; tightening torque: see the specifications.

Clean the engine joint face.

Use a new gasket (dry: use no adhesives or sealants).

Fit the water pump; tightening torque: see the specifications.

Fill the cooling system; see Operations [Pressure-testing the cooling system, topping-up/changing coolant](#) .

Fit the engine splash guard.

Check the tension of the Poly V-belt

Fit special tools **999 5434** and **999 5436** on the

belt.

Slide the O-ring of the measuring tool down so it is under the graduated scale (1).

Locate the measuring tool on the belt and push it in as indicated in the drawing (2).

This position can also be felt (with the thumb) because the measuring pin is then flush with the top of the measuring tool.

Remove the measuring tool carefully and read off the belt tension (in mm) (3).

Specified value when checking and adjusting: see the specifications.

Remove the auxiliary water pump

Unplug the connector.

Pinch off the hoses with clamping tongs.

Release the hose clips.

Remove the hoses and the pump.

Remove the pump mounting bracket.

Fitting is in reverse order to removal.

Fill the cooling system; see Operations

[Pressure-testing the cooling system, topping-up/changing coolant](#) .

Tightening torque of bracket retaining bolts: see the specifications.

