



**NOTE:** Numbers in parentheses ( ) indicate a component or tool in the associated illustration.

## REMOVAL

### WARNING:

- Risk of scalding as a result of hot coolant spraying out
- Open cap of expansion reservoir or radiator (2)
- Do not open the cap of the expansion reservoir or radiator unless the coolant temperature is below 90°C.
- Carefully turn cap to the first detent or slowly about 1/2 turn.
- Wear protective clothing.

1. Drain coolant.
2. Remove viscous fan coupling.
3. Slacken bolts of belt pulley at coolant pump (5) as follows: Fit on counter-holder at belt pulley of coolant pump (5) Loosen bolts
4. Remove poly V-belt.
5. Take off belt pulley of coolant pump (5)
6. Position piston of cylinder 1 to TDC Rotate engine at crankshaft in normal direction of rotation only. **CAUTION:** Do not turn engine backward.
7. Unbolt bracket of TDC sensor (17) **CAUTION:** After unbolting the TDC sensor bracket, do not crank engine any further.
8. Unbolt coolant pump (6) at coolant pump housing (11) Pay attention to dowel sleeves (9).

## INSTALLATION

- Install in the reverse order, noting the following: Installation: clean coolant pump (6) sealing

surfaces.

Replace coolant pump (6) gasket (10).

Pay attention to coolant pump (6) dowel sleeves (9).

Install TDC sensor (17) so that the pointer is aligned with the TDC marking on vibration damper, if necessary:

Check setting of bracket of TDC sensor and correct, refer to Engine.

Inspect cooling system for leaks

- Tighten the following components to: Pulley To Coolant Pump: **10 Nm**

Coolant Pump To Housing: **10 Nm**