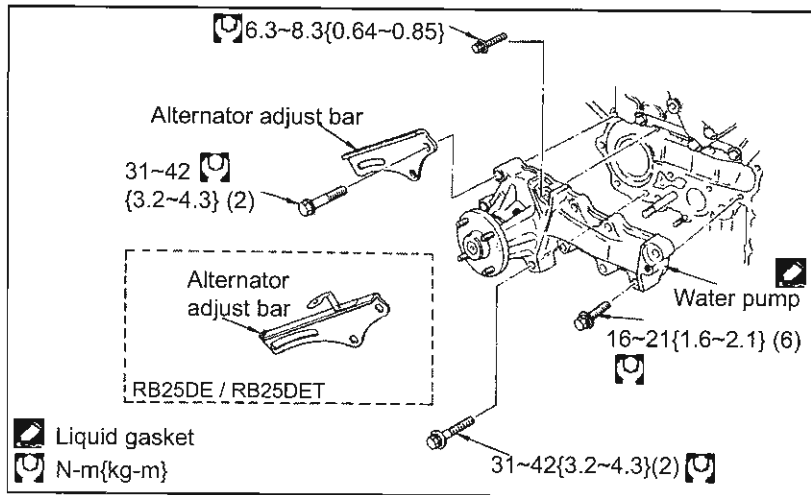
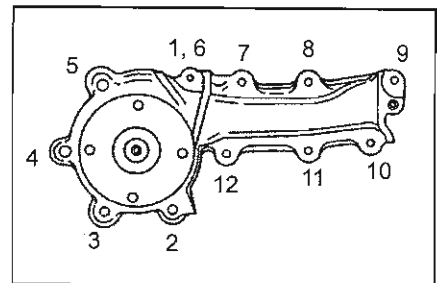


RB25DE / RB25DET ENGINE

14. WATER PUMP**Removal**

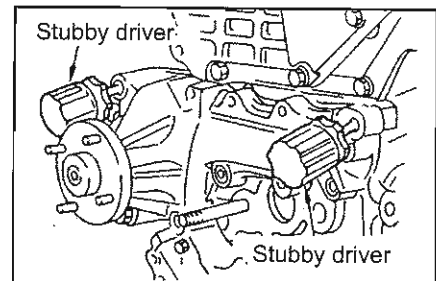
1. Remove the battery negative terminal inside the boot.
2. Remove the air duct.
3. Remove the under cover.
4. Drain coolant from the radiator drain plug.
5. Drain coolant from the cylinder block drain plug.
6. Remove the cooling fan.
7. Remove the radiator.
8. Remove the auxiliary belt.
9. Remove the water pump pulley.
10. Remove the timing belt.
11. Remove the tensioner pulley.
12. Remove the tensioner pulley and the idler pulley.
13. Remove the alternator adjust bar.
14. Remove the installation bolts in the order shown.
15. Remove the water pump.



- Insert the stubby driver into the installation bolt hole and move it up and down to remove.

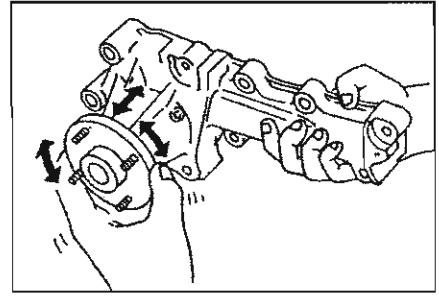
Caution:

Care must be taken not to damage the cylinder block side screws.



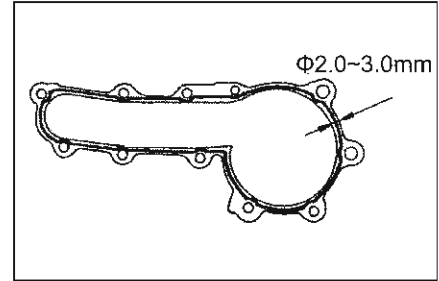
Inspection

- Check the water pump main body and the vane for rust or foreign objects.
- Make sure the water pump is not warpy.
- Replace the water pump if there are any abnormalities.

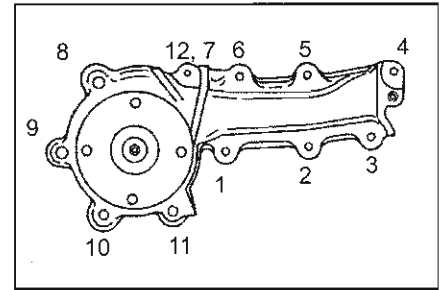


Installation

1. Install the water pump.
- Use a scraper to remove old gasket from the water pump and the cylinder block installation surface.
 - Clean the installation surface with white gasoline.
 - Apply sealing agent (KP710 00150) to the position shown in approx. $\Phi 2.0\sim 3.0\text{mm}$.



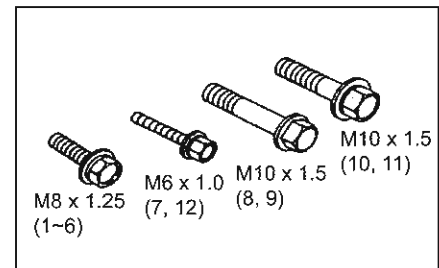
- Tighten the installation bolts in the order shown.
- Tighten the installation bolts 8 and 9 together with the alternator adjust bar.



- There are four types of installation bolts.

Tightening torque (N-m{kg-m})

M6	6.3~8.3{0.64~0.85}
M8	16~21{1.6~2.1}
M10	31.4~42.1{3.2~4.3}



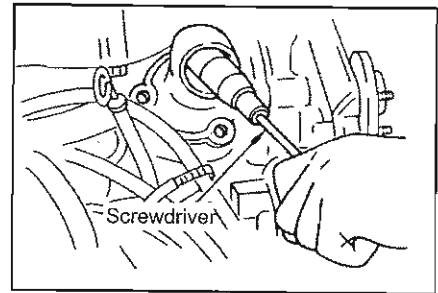
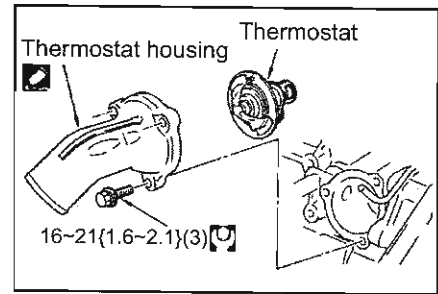
2. Install the rest in reverse order to the removal procedure.

15. THERMOSTAT & WATER INLET

Removal

1. Remove the battery negative terminal inside the boot.
 - (1) Open the boot lid.
 - (2) Remove the boot front finisher and remove the negative battery terminal.
2. Drain coolant from the radiator drain plug.
3. Drain coolant from the cylinder block drain plug.
4. Remove the alternator belt to shift the alternator down.
5. Remove the alternator adjust bracket.
6. Remove the radiator lower hose at the thermostat housing side.

7. Remove the water inlet.
 - Insert end of a tool such as a screwdriver into the thermostat housing and move it up and down to remove.
8. Remove the thermostat.



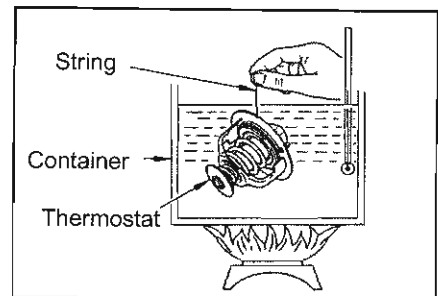
Inspection

Thermostat inspection

Check the valve opening temperature and maximum valve lift.

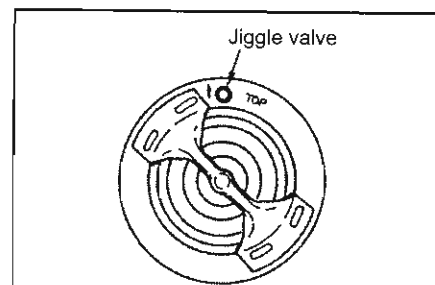
- Hang the thermostat by string on the valve and submerge in heated water in double walled container and stir water while heating it up.
- The opening temperature is the temperature when the valve opens and thermostat falls from the string.

Valve opening temperature (°C)	76.5
Max. valve lift (mm/°C)	Over 10 / 90
- Replace the thermostat if the value is not at standard value.



Installation

1. Use a scraper to remove old liquid gasket from the water inlet and the cylinder block installation surface.
 - Use white gasoline to clean the surface.
2. Install the thermostat.
 - Position the thermostat so the jiggle valve (TOP mark) is on the top.



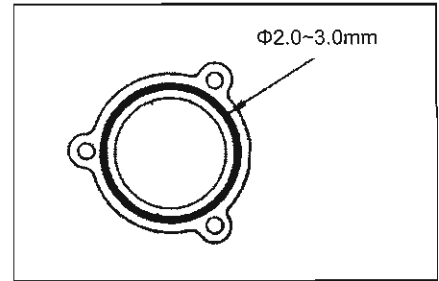
RB25DE / RB25DET ENGINE

3. Install the water inlet.

- Apply sealing agent (KP510 00150) at approx. $\Phi 2.0\sim 3.0\text{mm}$ as shown in the figure.

- Tighten the installation bolts.

Tightening torque (N-m{kg-m}) 16~21{1.6~2.1}



- 4. Install the rest in reverse order to the removal procedure.