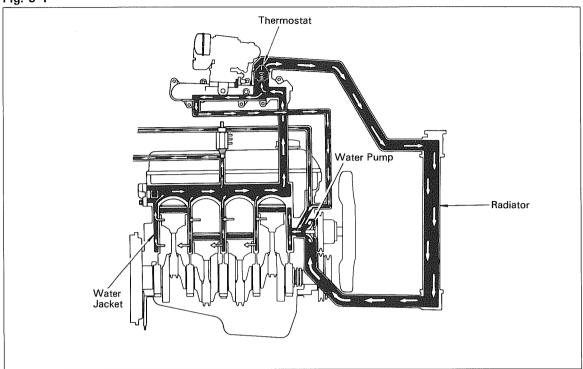
COOLING SYSTEM

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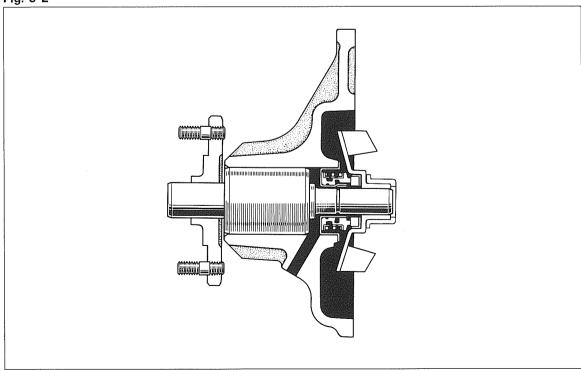
COOLING SYSTEM CIRCUIT

Fig. 5-1



WATER PUMP CUTAWAY VIEW

Fig. 5-2



WATER PUMP

DISASSEMBLY

Disassemble the parts in the numerical order shown in the figure.

Fig. 5-3

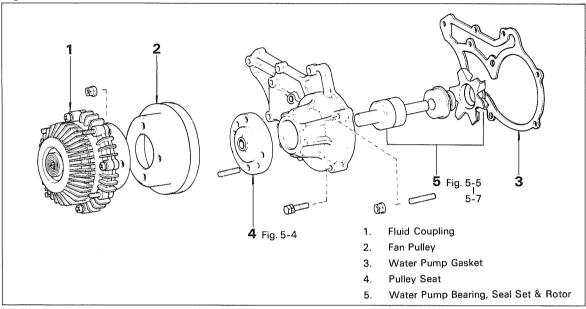
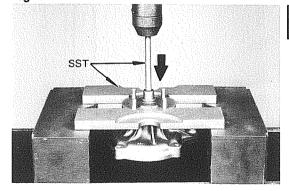


Fig. 5-4

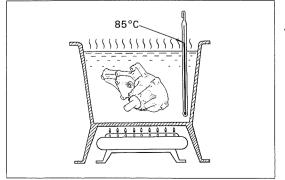




While supporting the pulley seat, press the shaft with SST.

SST (09236-36010) of set [09236-00100]

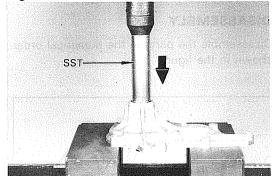
Fig. 5-5





Heat the water pump body to about 85°C (185°F).

Fig. 5-6





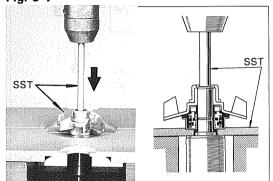
Using SST, press out the bearing together with the rotor.

SST (09236-28011) of set [09236-00100]

- Note -

Use a new seal set for assembly.



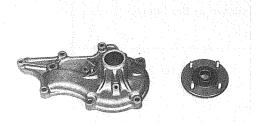




Press out the bearing with SST. SST (09236-28011) and (09236-36010) of set [09236-00100]

Note –Use a new rotor for assembly.

Fig. 5-8

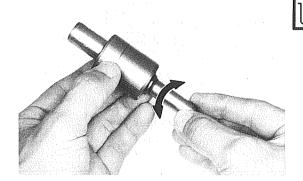


INSPECTION



1. Check the water pump body and pulley seat for cracks, wear or damage.

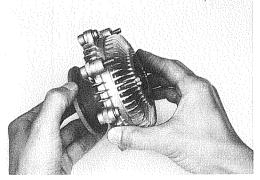
Fig. 5-9



Check the operating condition of the bearing

If damaged, produces noise or does not turn properly, replace.

Fig. 5-10





3. Check the fluid coupling for damage and silicone oil leak. If necessary, replace the coupling assembly.

- Note -

Do not press on the bi-metal.

ASSEMBLY

Assemble the parts in the numerical order shown in the figure.

Fig. 5-11

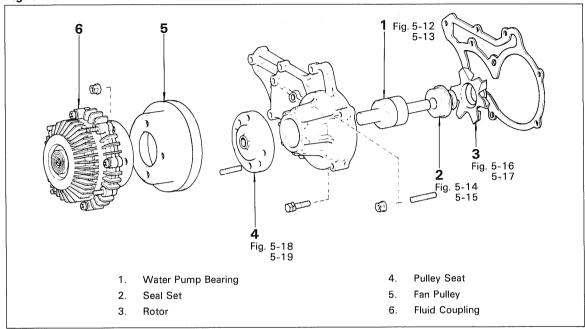
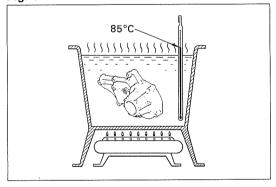


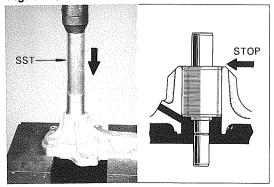
Fig. 5-12





Heat the water pump body to about 85°C (185°F).

Fig. 5-13





Press in the bearing with SST. SST (09236-28011) of set [09236-00100]

- Note -

The bearing end face should be flush with the body top surface.

Fig. 5-14



Apply a little liquid sealer to the seal set.



Always replace the seal set with a new one when reassembling.

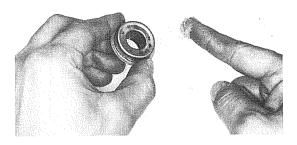
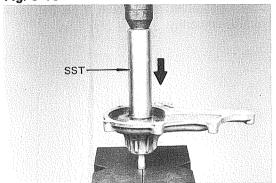


Fig. 5-15





Press the seal set into the pump body with SST. SST [09236-36010]

Fig. 5-16



Install the packing and seat into the rotor.

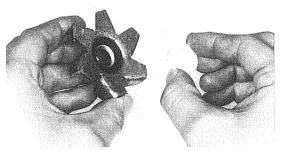
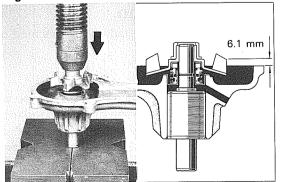


Fig. 5-17

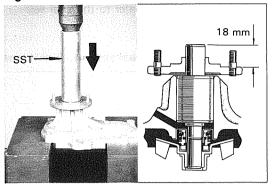




Press in the rotor.

- Note -
- 1. Use a new rotor for assembly.
- 2. As shown in the figure, the distance from the rotor edge to the pump body should be 6.1 mm (0.240 in.).

Fig. 5-18



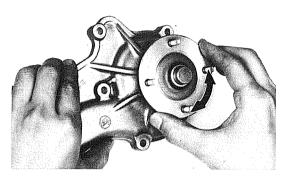


Press in the pulley seat with SST. SST (09236-36010) of set [09236-00100]

- Note -

As shown in the figure, the distance from the bearing shaft end to the pulley seat should be 18 mm (0.71 in.).

Fig. 5-19





After assembly, make sure that the rotor rotates smoothly.

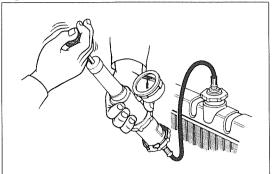
RADIATOR CLEANING METHOD

Using water or steam cleaner, remove mud or dirt from the cores.

- Caution -

If using a high pressure type cleaner be careful not to deform the fins of the radiator core. For example, keep a distance of at least 40-50 cm (16-20 in.) between radiator core and cleaner nozzle when cleaner, nozzle pressure is 30-35 kg/cm² (427-492 psi.)

Fig. 5-20





INSPECTION

 Install the radiator cap tester to the radiator, apply pressure and check for leakage in the cooling system under normal operating temperature.

Applicable pressure:

Previous type

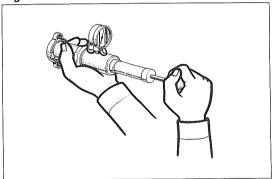
1.5 kg/cm²

Resin tank type

(21 psi) 0.9 kg/cm²

(12.8 psi)

Fig. 5-21





Check the pressure sealing and vacuum relief operation.

Valve opening pressure:

STD 0.75 - 1.05 kg/cm²

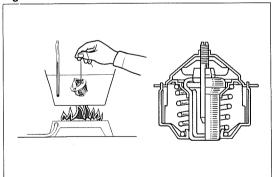
(10.7 - 14.9 psi)

Limit 0.6 kg/cm²

(8.5 psi)

3. If readings are not within specification, replace the radiator cap.

Fig. 5-22





THERMOSTAT

INSPECTION

- Immerse the thermostat in water and check the valve opening temperature by gradually heating the water.
- 2. Replace the thermostat if the valve remains open at normal temperature or is not very tight when fully closed.

Low temperature type:

Valve starts to open at $80 - 84^{\circ}$ C (176 - 183°F).

Valve opens by more than 8 mm (0.31 in.) at 95°C (203°F).

High temperature type:

Valve starts to open at $86 - 90^{\circ}$ C (187 - 194°F).

Valve opens by more than 8 mm (0.31 in.) at 100°C (212°F).

Fig. 5-23

