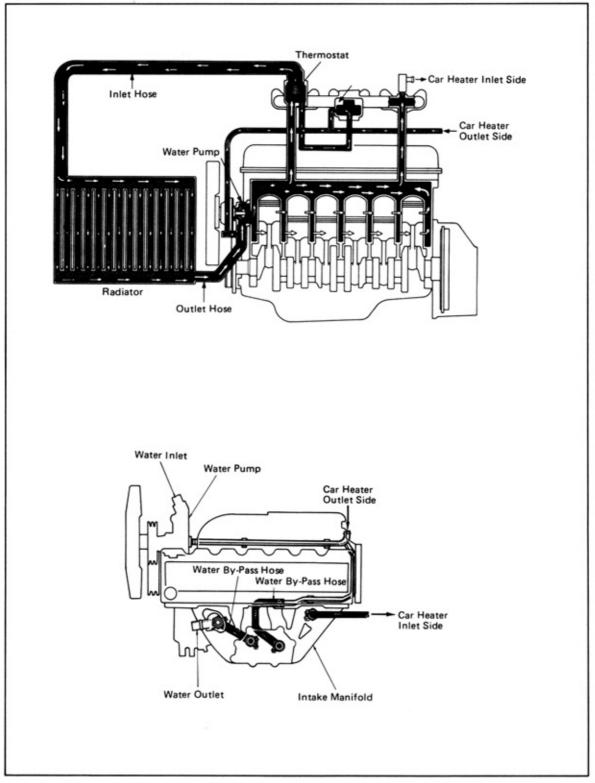
COOLING SYSTEM

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COOLING SYSTEM CIRCUIT

Fig. 5-1



RADIATOR

Fig. 5-2

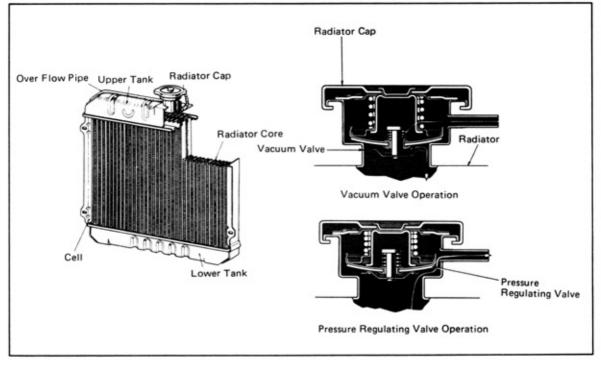


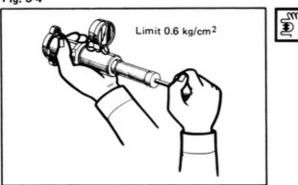
Fig. 5-3



INSPECTION

- **Radiator Cap**
 - Inspect the pressure regulating valve and vacuum valve in the radiator cap for spring tension and for damage and tightness of seal packing, and replace cap if defective.

Fig. 5-4



 Using the cap tester, measure the valve opening pressure. If lower than the limit, replace cap.

Valve opening pressure limit

0.6 kg/cm² (8.5 psi) Standard 0.75 - 1.05 kg/cm² (10.6 psi - 14.9 psi)

- Note -

Clean the seal packing and valve before measurement.



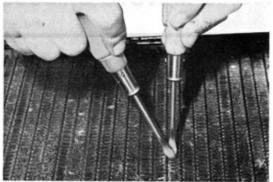
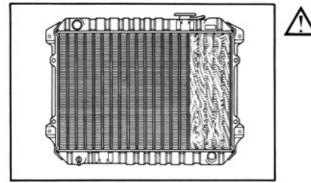


Fig. 5-6





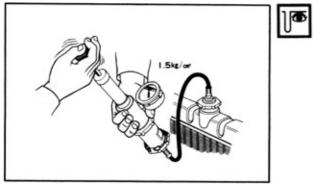
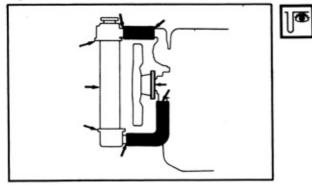


Fig. 5-8



Radiator & Hose

 Inspect the radiator core fins. If any of the fins are obstructing free passage fo air, repair by the method illustrated.

- If the clogging in the radiator core exceeds 20 percent of the total radiation surface, replace the radiator assembly.
- Inspect the radiator hoses, and replace if damaged or excessively hardend.

- Precautions on Installing Radiator -

- 1. When filling anti-freeze in winter, be sure to use the ANTI-RUST type ETHYLENE GLYCOL base coolant.
- In models equipped with Automatic Transmission, check and replenish the transmission fluid.
- Inspect for leakage, using cap tester.
 - (1) Fully supply the radiator with water.
 - (2) Warm up engine and ture engine off.
 - (3) Install cap tester and pump to a pressure of 1.5 kg/cm² (21.3 psi).

(4) Inspect for leakage and hoses for excessive inflation.

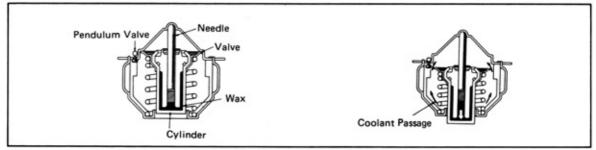
- Caution -

Use care in removing tester.

5-4

THERMOSTAT

Fig. 5-9





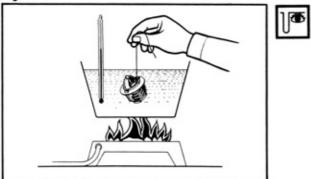
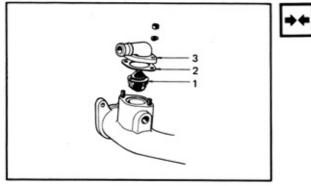


Fig. 5-11



INSPECTION

- Replace if the valve remains open at normal temperature or does not have proper tightness when flully closed.
- Immerse the thermostat in the water, and check the valve opening temperatures by heating the water gradually.

The valve is satisfactory if it starts to open at 80° to 84° C (176° to 183.2° F) and opens to more than 8 mm (0.32 in.) at 95° C (203°F).

Replace if defective.

INSTALLATION

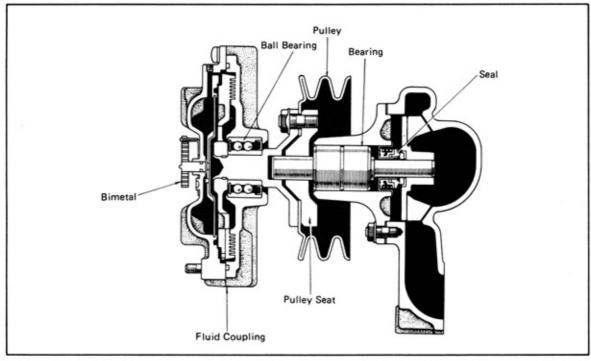
Fit in the thermostat, and install the water outlet over a gasket.

- Note -

Always use a new gasket.

WATER PUMP

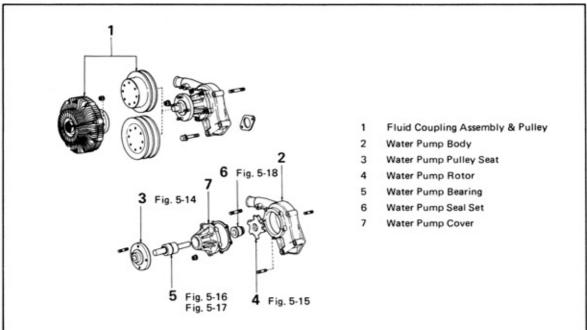
Fig. 5-12

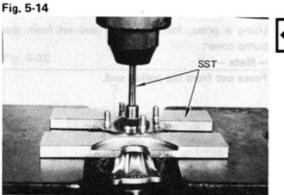


DISASSEMBLY

Disassemble in numerical order,



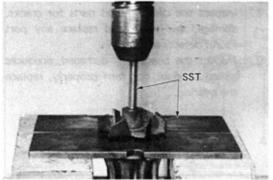






Using SST [09236-36010] and a press, force out the bearing shaft from the pulley seat.

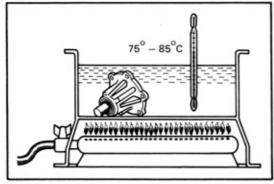
Fig. 5-15



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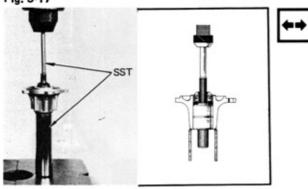
Using SST [09236-28011], [09236-36010] and a press, force out the bearing shaft from the rotor.

Fig. 5-16



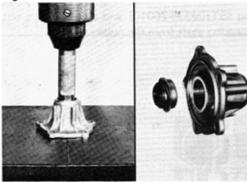
Heat the water pump cover up to around 75° to 85°C (167° to 185°F).





Using SST [09236-36010] and a press, force out the bearing from the pump cover.

Fig. 5-18



Using a press, force out the seal set from the pump cover.

- Note -

Force out from the pulley end.





INSPECTION

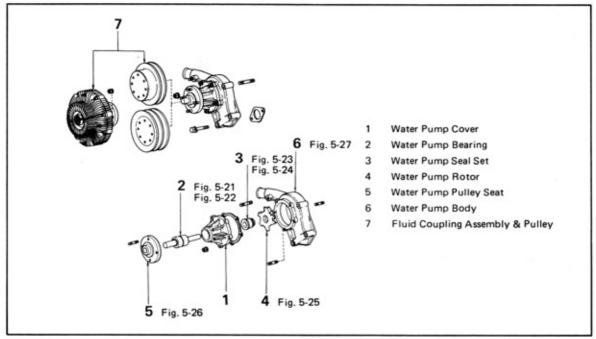
- Inspect the disassembled parts for cracks, damage, and wear, and replace any part found defective.
- Inspect the bearing. If damaged, produces noise, or does not turn properly, replace the bearing.



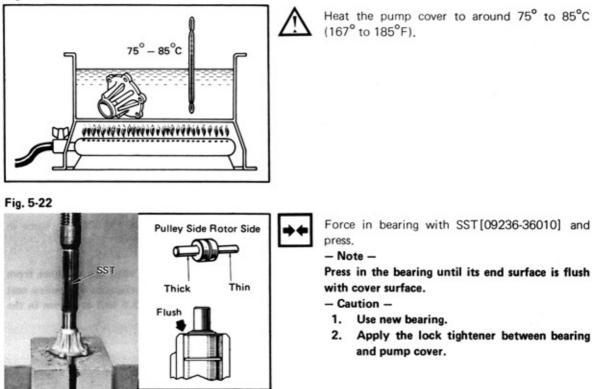
ASSEMBLY

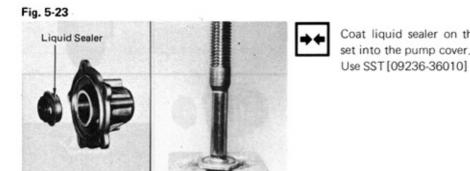
Assemble in numerical order.

Fig. 5-20









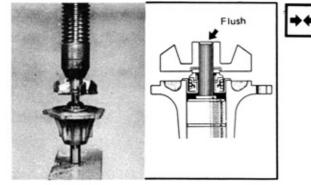
Coat liquid sealer on the seal set, and press seal set into the pump cover. Use SST [09236-36010]

Fig. 5-24



Install seal and cover on rotor.

Fig. 5-25

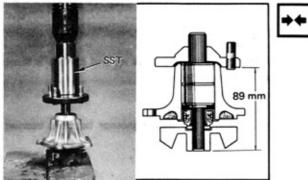


Using a press, force in rotor.

- Note -

Press in the rotor until it is flush with the shaft end.

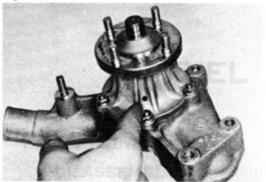




Using a press and SST[09238-40010], force in the pulley seat.

- Note -

Press in the pulley seat until the distance from the bearing shaft end surface to the pulley seat end surface is 89 mm (3.5 in.) as shown in the illustration.



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Install the water pump cover to the body with the water drain hole positioned downward.