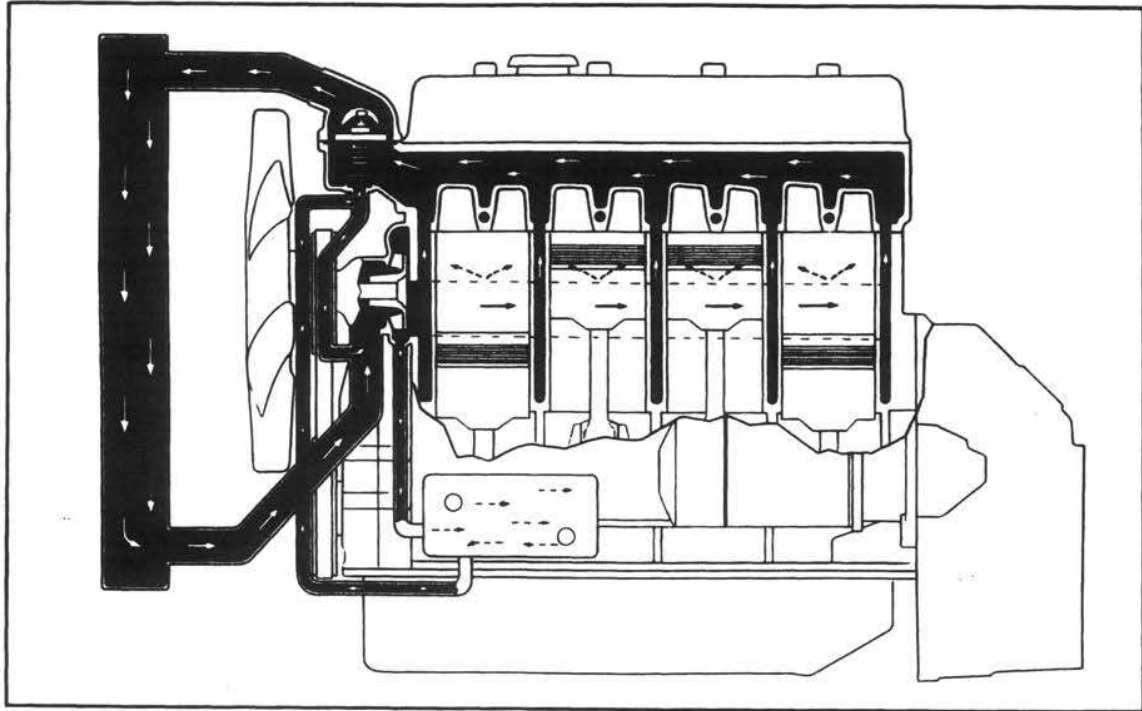
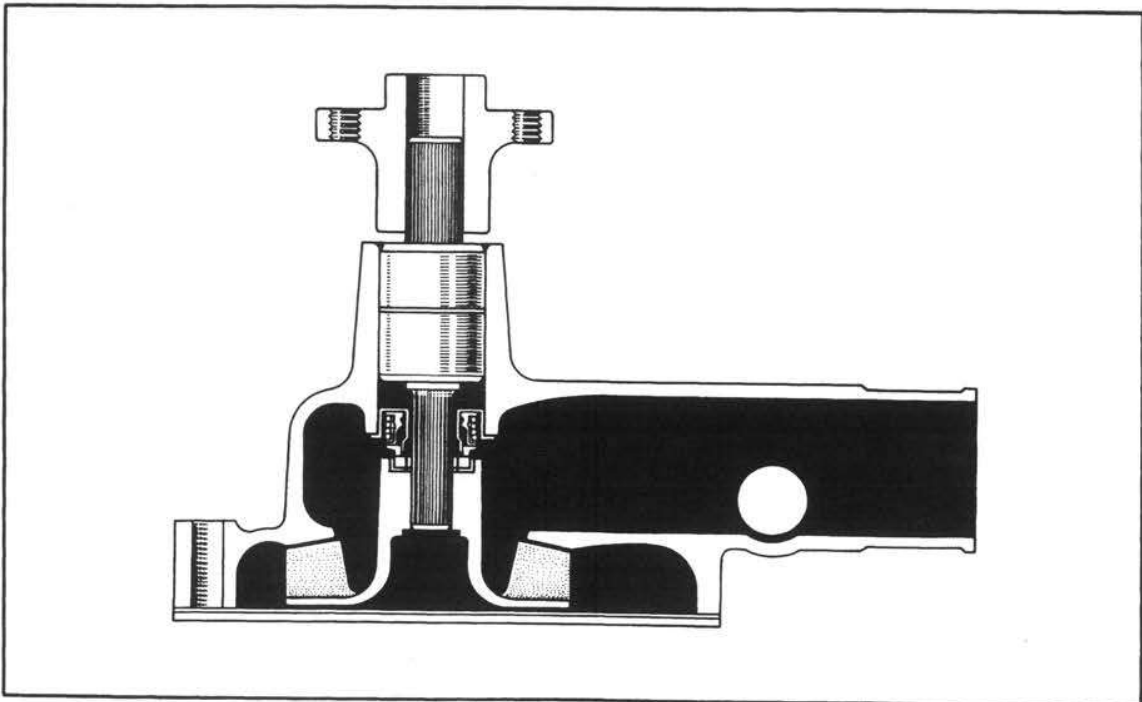


COOLING SYSTEM

	Page
COOLING SYSTEM CIRCUIT	5-2
WATER PUMP CROSS SECTIONAL VIEW	5-2
WATER PUMP	5-3
RADIATOR	5-8
THERMOSTAT	5-8

5-2 COOLING SYSTEM – Cooling System Circuit, Water Pump Cross Sectional View**COOLING SYSTEM CIRCUIT****Fig. 5-1****WATER PUMP CROSS SECTIONAL VIEW****Fig. 5-2**

COOLING SYSTEM – Water Pump

5-3

WATER PUMP**DISASSEMBLY**

Disassemble in numerical order.

Fig. 5-3

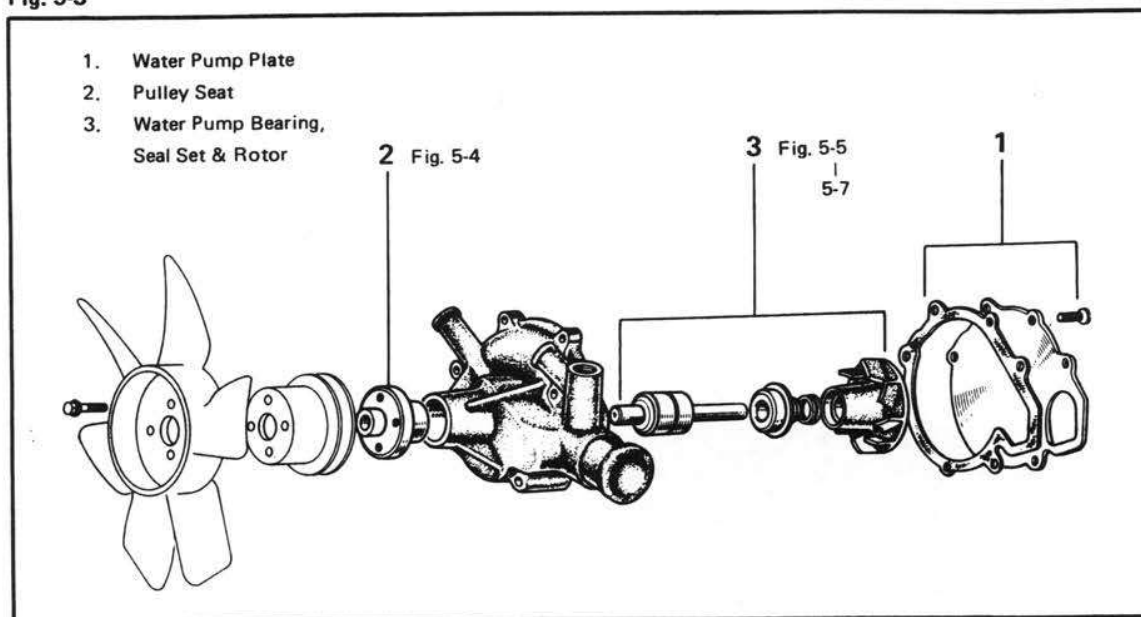
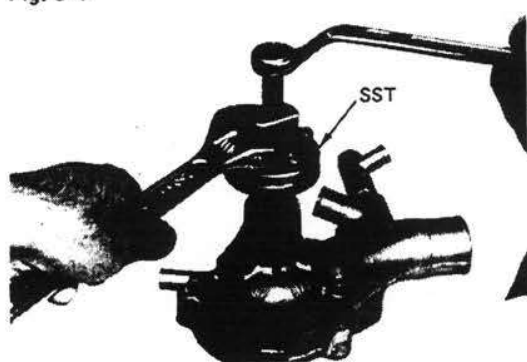
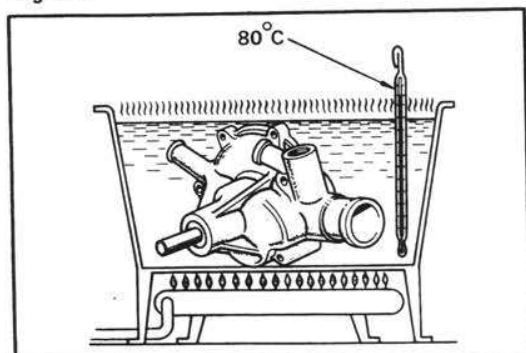


Fig. 5-4



Pull out pulley seat with SST [09235-60010].

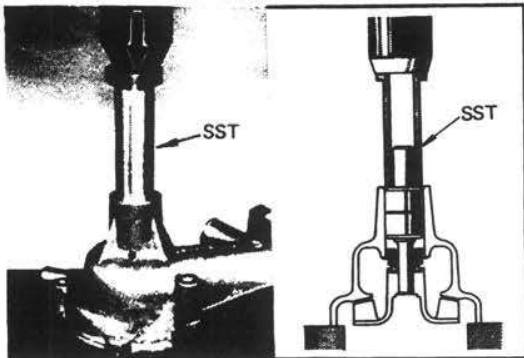
Fig. 5-5



Heat the water pump body to about 80°C (176°F).

5-4 COOLING SYSTEM – Water Pump

Fig. 5-6

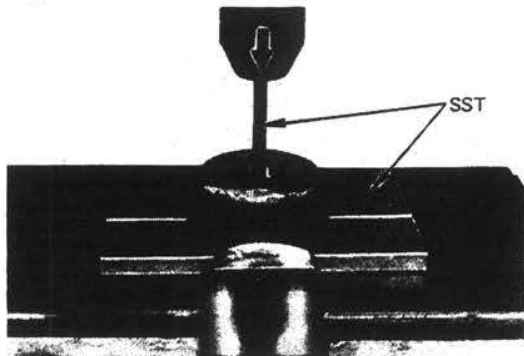


Press out the water pump bearing together with the rotor and seal set with SST [09238-48010].

— Note —

Always replace the seal set upon assembly.

Fig. 5-7



Press out the pump bearing from the rotor with SST [09236-36010].

Fig. 5-8

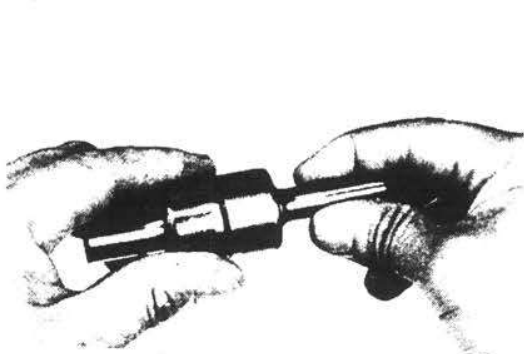


INSPECTION



1. Check the disassembled parts for cracks, damage and wear, and replace if defective.

Fig. 5-9



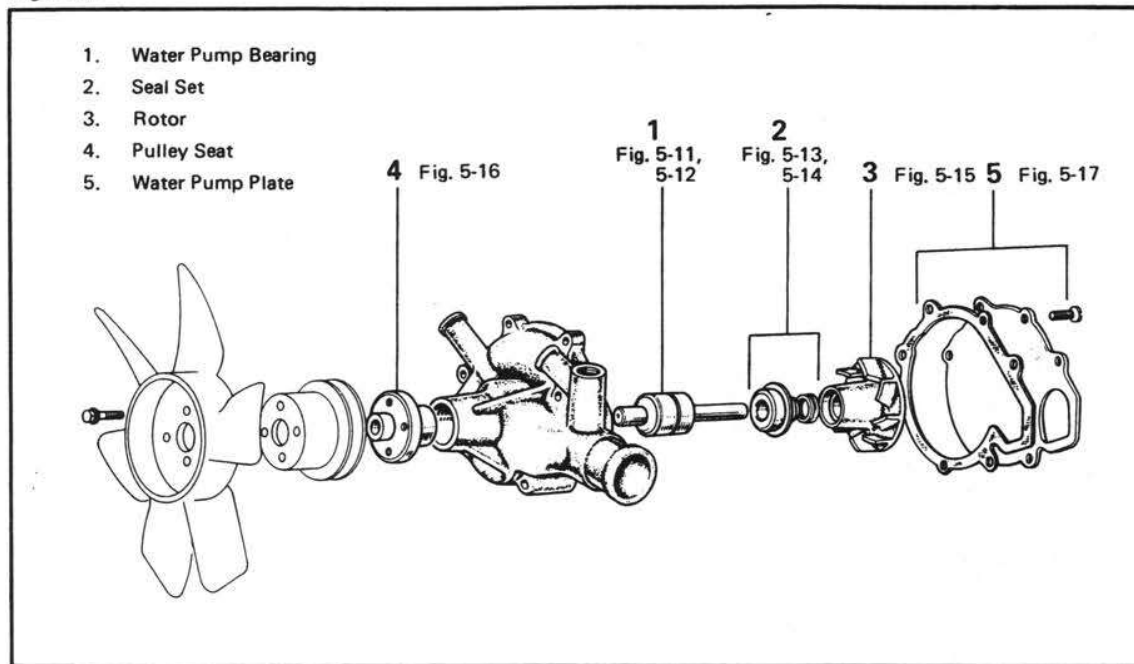
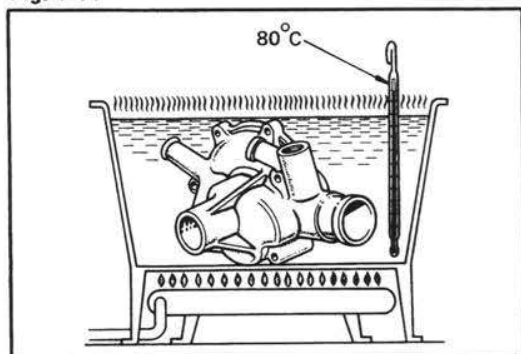
2. Check the bearing.
If it is damaged, produces noise or does not turn properly, replace.

COOLING SYSTEM — Water Pump

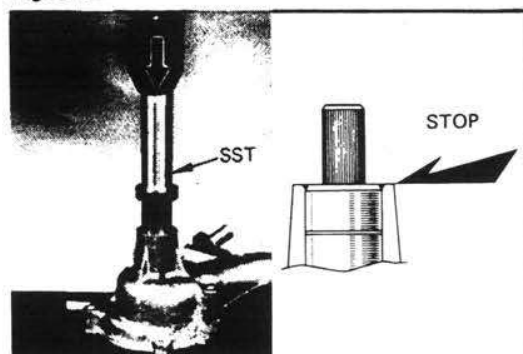
5-5

ASSEMBLY

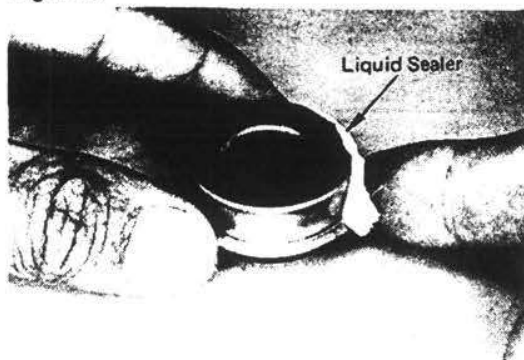
Assemble in numerical order.

Fig. 5-10**Fig. 5-11**

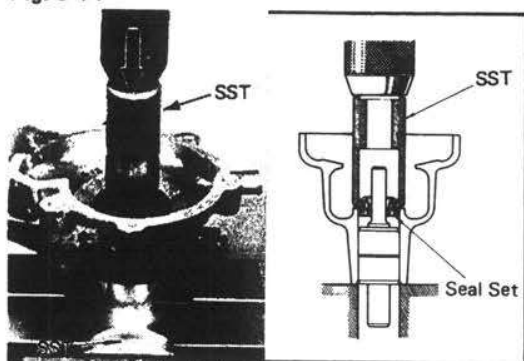
Heat the water pump body to about 80°C (176°F).

Fig. 5-12

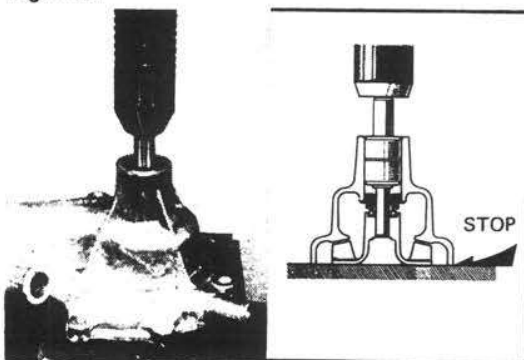
Press in the water pump bearing into the pump body with SST[09238-48010].

5-6 COOLING SYSTEM – Water Pump**Fig. 5-13**

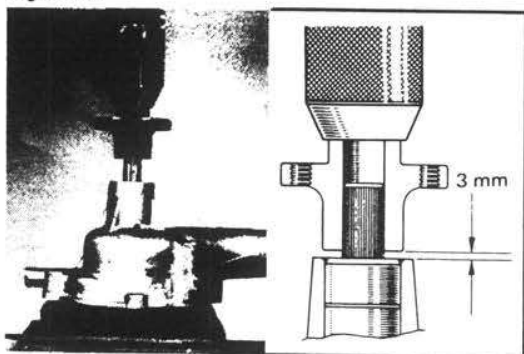
Apply liquid sealer to the surface contacting with the pump body.

Fig. 5-14

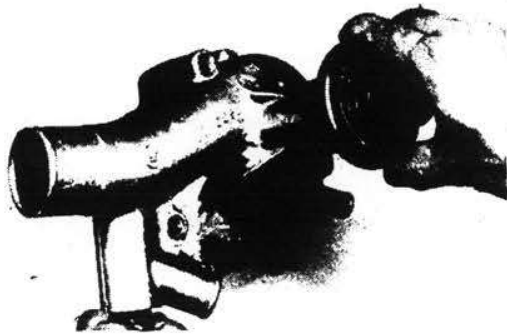
Press in the seal set with SST [09236-36010].

Fig. 5-15

Press in the rotor.

Fig. 5-16

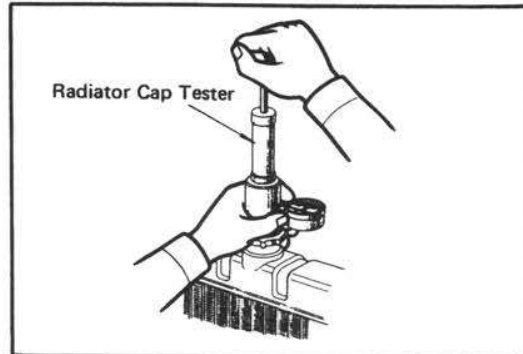
Press in the pulley seat to the specified depth.

COOLING SYSTEM – Water Pump**5-7****Fig. 5-17**

After assembling, make sure the rotor rotates smoothly with the water pump plate in installed condition.

5-8 **COOLING SYSTEM – Radiator, Thermostat**

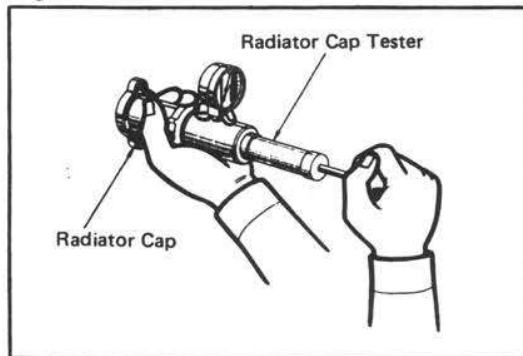
Fig. 5-18

**RADIATOR****INSPECTION**

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

Applicable pressure **1.2 kg/cm²**
 (17.1 psi)

Fig. 5-19

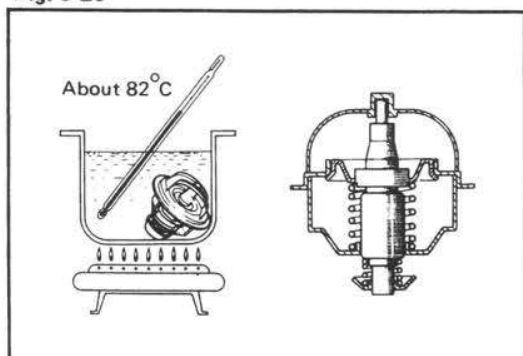


2. Check pressure sealing and vacuum relief valve operation.

Valve opening pressure
Limit **0.6 kg/cm² (8.5 psi)**
STD **0.75 – 1.05 kg/cm²**
 (10.7 – 14.9 psi)

3. If readings are not within acceptable limits, replace radiator cap.

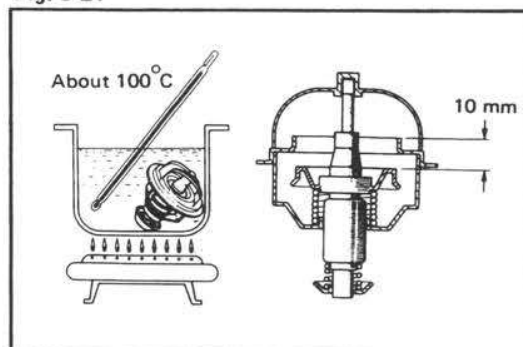
Fig. 5-20

**THERMOSTAT****INSPECTION**

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

Valve starts to open at 80.5 – 83.5°C
(177 – 182°F).

Fig. 5-21



Valve opens by more than
10 mm (0.39 in.) at 100°C (212°F).

