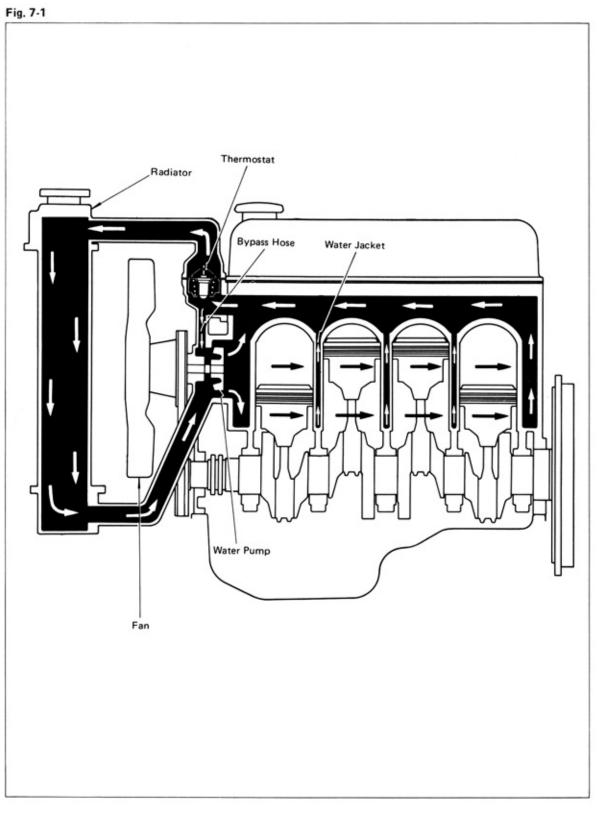
COOLING SYSTEM

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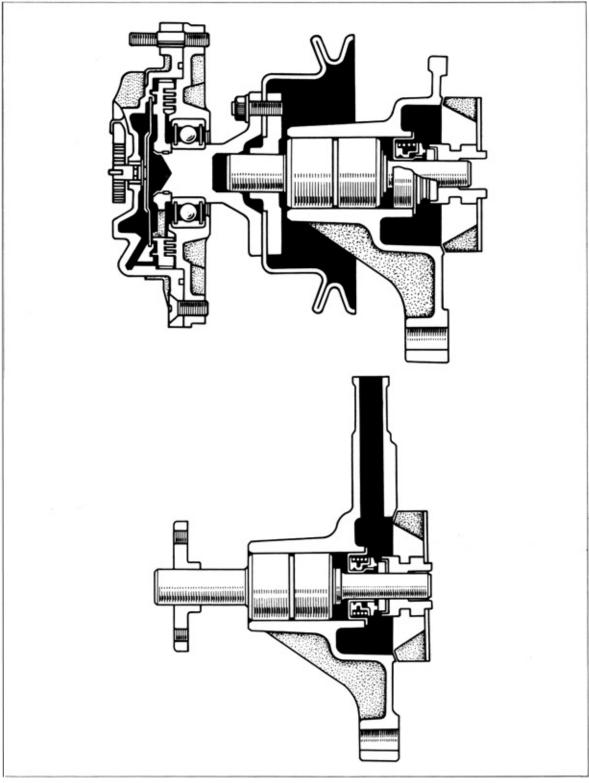
7

COOLING SYSTEM CIRCUIT



WATER PUMP CUTAWAY VIEW





WATER PUMP

DISASSEMBLY

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

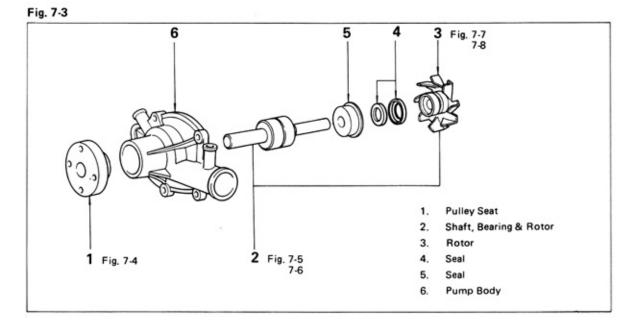
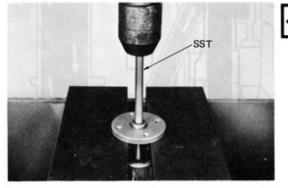
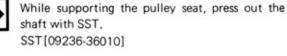
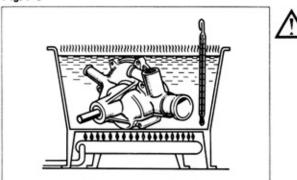


Fig. 7-4

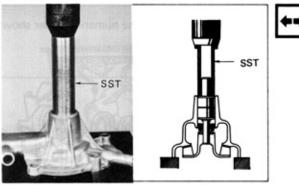








Heat the water pump body to about 80°C (176°F).

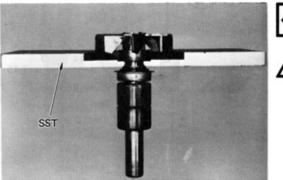


Press out the bearing together with the rotor using SST. SST[09236-28011]

- Note -

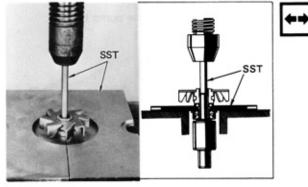
Always replace the seal set when assembling.





Support the rotor with SST as shown in the figure. SST[09236-28011]





Press out the shaft with SST. SST[09236-36010]

ASSEMBLY

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

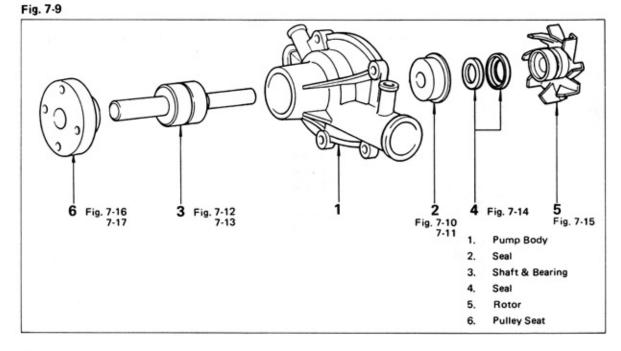
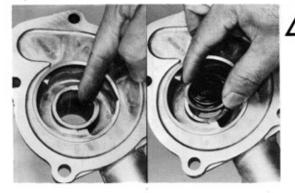
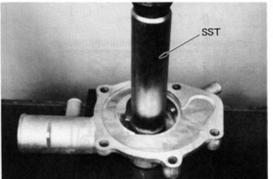


Fig. 7-10



Apply liquid sealer on the pump body.

Fig. 7-11



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

7-7

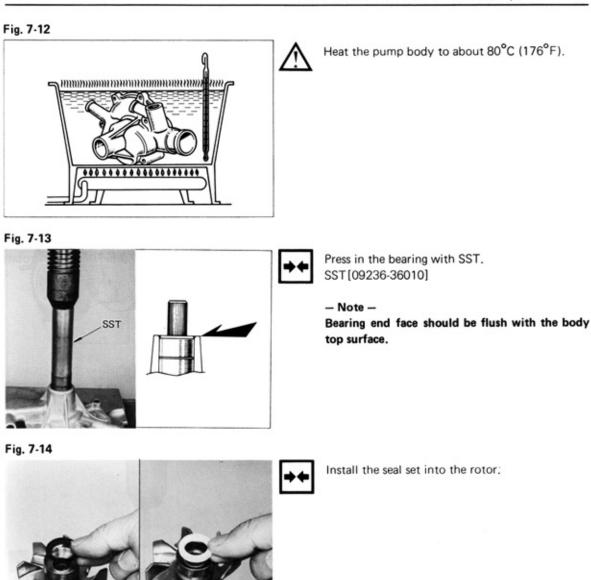
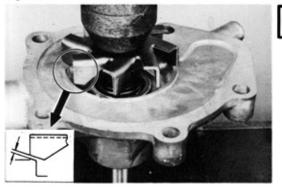


Fig. 7-15



Press i

Press in the rotor. Rotor body clearance:

1 mm (0.04 in.)

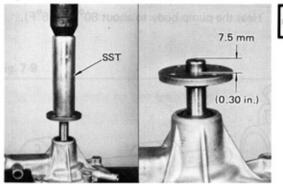
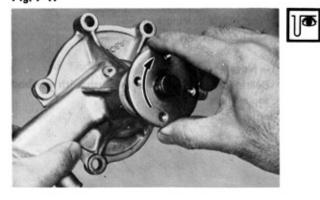


Fig. 7-17



Press in the pulley seat with SST as shown in the figure.

SST[09236-36010]

After assembly make sure the rotor rotates smoothly.

WATER PUMP

(With Temperature Controlled Coupling)

DISASSEMBLY

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

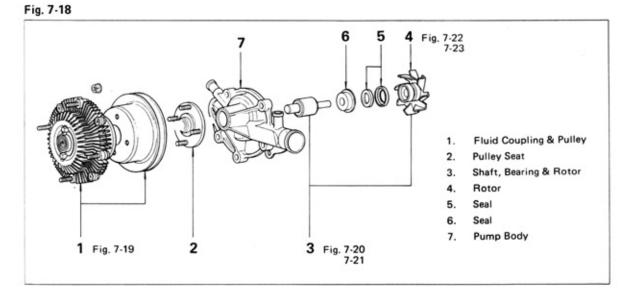
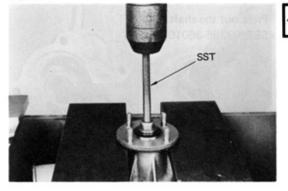
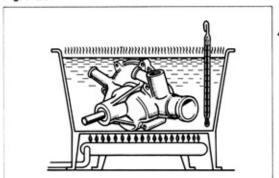


Fig. 7-19

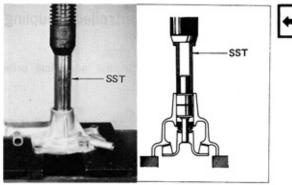


While supporting the pulley seat, press out the shaft with SST. SST[09236-36010]





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

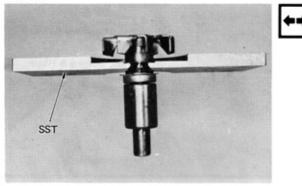


Press out the bearing together with rotor with SST. SST[09236-28011]

- Note -

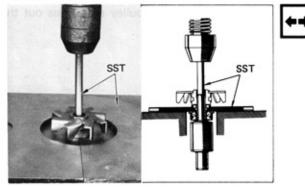
Always replace the seal set upon assembly.

Fig. 7-22



Support the rotor with SST as shown in the figure. SST[09236-28011]

Fig. 7-23



Press out the shaft with SST. SST[09236-36010]

ASSEMBLY

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

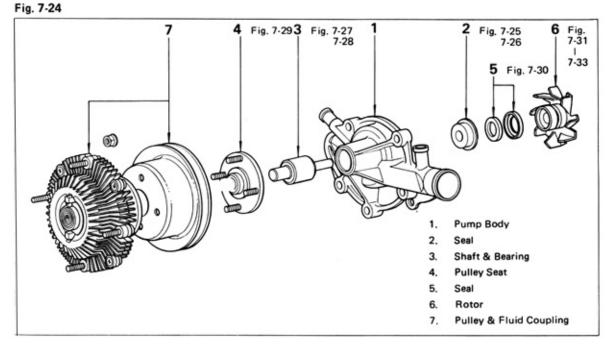
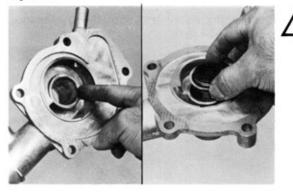
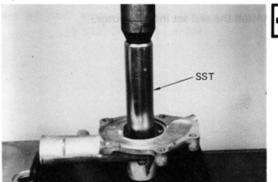


Fig. 7-25

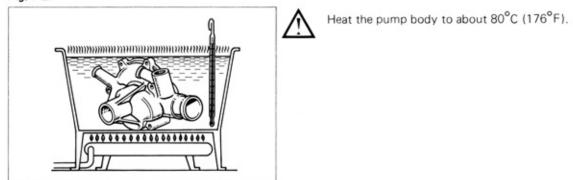


Apply liquid sealer on the pump body.

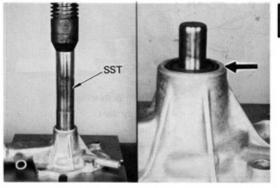
Fig. 7-26



Press in the seal set into the pump body.





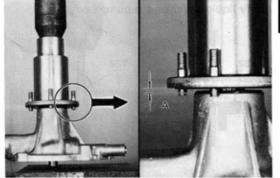


Press in the bearing with SST. SST[09236-28011]

- Note -

Bearing end face should be flush with the body top surface.

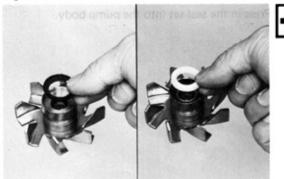
Fig. 7-29



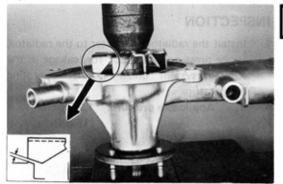
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Press in the pulley seat until the A clearance about 2.0 mm (0.08 in.).

Fig. 7-30



Install the seal set into the rotor.

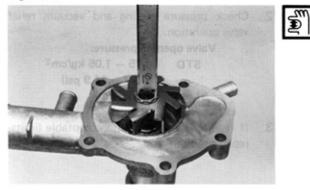


Press in the rotor.

Rotor body clearance: 1.0 mm

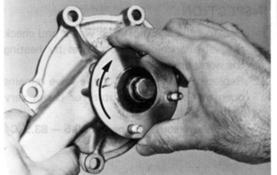
(0.04 in.)

Fig. 7-32



After assembly check the shaft depth. Shaft depth: 13 mm (0.5 in.)

Fig. 7-33





After assembly make sure the rotor rotates smoothly.

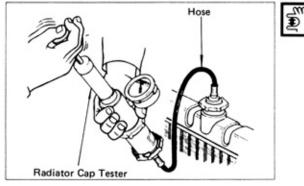


Fig. 7-35

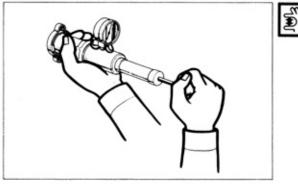
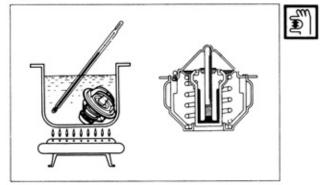
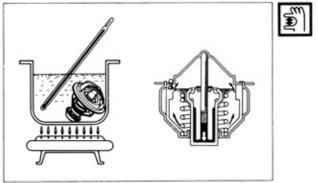


Fig. 7-36







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 psi)

2. Check pressure sealing and vacuum relief valve operation.

> Valve opening pressure: STD 0.75 - 1.05 kg/cm² (10.7 - 14.9 psi) 0.6 kg/cm² Limit (8.5 psi)

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

THERMOSTAT

INSPECTION

- 1. Immerse the thermostat in water, and check the valve opening temperatures by heating the water gradually.
- 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).

Valve opens by more than 10 mm (0.4 in.) at 100°C (212°F).

7-14

MEMO