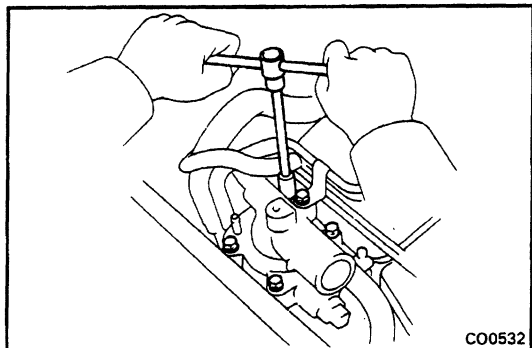


THERMOSTAT

REMOVAL OF THERMOSTAT

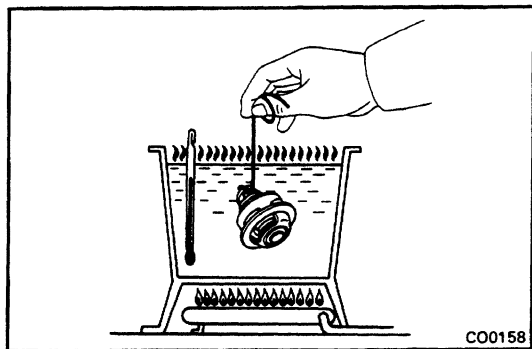
1. DRAIN ENGINE COOLANT (See page CO-5)
2. DISCONNECT RADIATOR INLET AND WATER BY-PASS HOSES FROM WATER OUTLET
3. DISCONNECT TWO VACUUM HOSES OF BVSV
4. DISCONNECT COLD START INJECTOR TIME SWITCH AND WATER TEMPERATURE SWITCH CONNECTORS



5. REMOVE WATER OUTLET

- (a) Remove the clamp bolt of ISC water by-pass pipe.
- (b) Remove the four bolts, water outlet and gasket.

6. REMOVE THERMOSTAT



INSPECTION OF THERMOSTAT

1. INSPECT THERMOSTAT

HINT: The thermostat is numbered with the valve opening temperature.

- (a) Immerse the thermostat in water and gradually heat the water.

- (b) Check the valve opening temperature.

**Valve opening temperature: 86 – 90°C
(187 – 194°F)**

If the valve opening temperature is not within specification, replace the thermostat.

- (c) Check the valve lift.

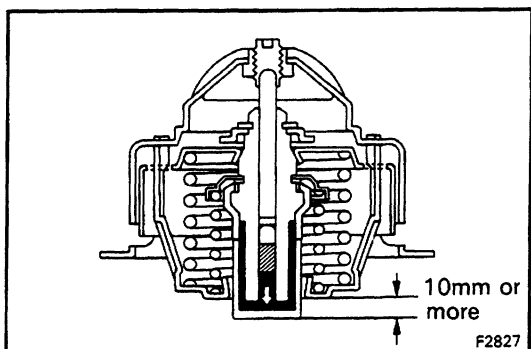
Valve lift:

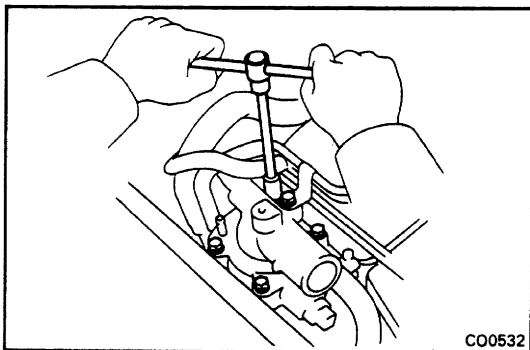
10 mm (0.39 in.) or more at 100°C (212°F)

If the valve lift is less than specification, replace the thermostat.

- (d) Check that the valve spring is tight when the thermostat is fully closed.

If necessary, replace the thermostat.





INSTALLATION OF THERMOSTAT

1. PLACE THERMOSTAT IN WATER OUTLET HOUSING
2. INSTALL WATER OUTLET
 - (a) Install a new gasket and the water outlet with the four bolts. Torque the bolts.
Torque: 185 kg-cm (13 ft-lb, 18 N-m)
 - (b) Install the clamp bolt of ISC water by-pass pipe.
3. CONNECT COLD START INJECTOR TIME SWITCH AND WATER TEMPERATURE SWITCH CONNECTORS
4. CONNECT TWO VACUUM HOSES OF BVSV
5. CONNECT RADIATOR INLET AND WATER BY-PASS HOSES
6. FILL WITH ENGINE COOLANT (See page [CO-5](#))
7. START ENGINE AND CHECK FOR LEAKS

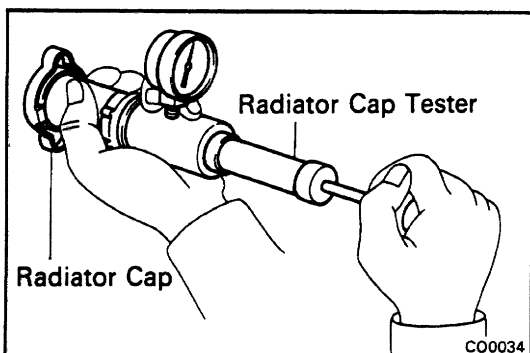
RADIATOR

CLEANING OF RADIATOR

CLEAN RADIATOR

Using water or steam cleaner, remove any mud and dirt from the radiator core.

NOTICE: If using a high pressure type cleaner, be careful not to deform the fins of the radiator core. If the cleaner nozzle pressure is 30–35 kg/cm² (427–498 psi, 2,942 – 3,432 kPa), keep a distance of at least 40–50 cm (15.75–19.69 in.) between the radiator core and cleaner nozzle.



INSPECTION OF RADIATOR

1. INSPECT RADIATOR CAP

Using a radiator cap tester, pump the tester until the relief valve opens. Check that the valve opens between 0.75 kg/cm² (10.7 psi, 74 kPa) and 1.05 kg/cm² (14.9 psi, 103kPa).

Check that the pressure does not drop rapidly when pressure on the cap is below 0.6 kg/cm² (8.5 psi, 59 kPa).

If either check is not within limits, replace the cap.

2. INSPECT COOLING SYSTEM FOR LEAKS

- (a) Fill the radiator with coolant and attach a radiator cap tester.
- (b) Warm up the engine.
- (c) Pump it to 1.2 kg/cm² (17 psi, 118 kPa), check that pressure does not drop.
If the pressure drops, check for leaks from the hoses, radiator or water pump. If no external leaks are found, check the heater core, block and head.

