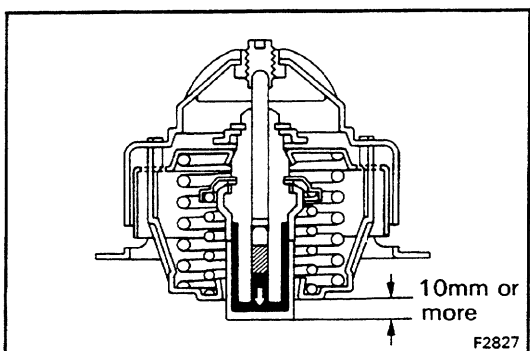
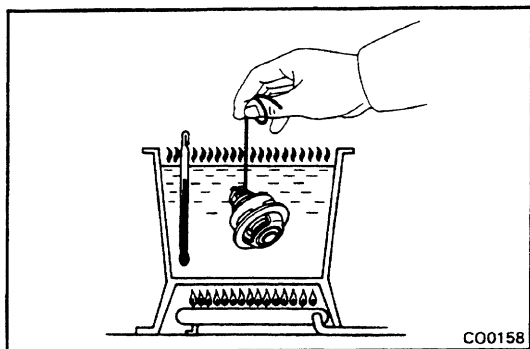
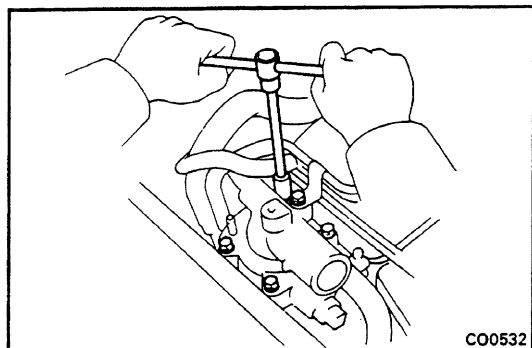


THERMOSTAT

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

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.

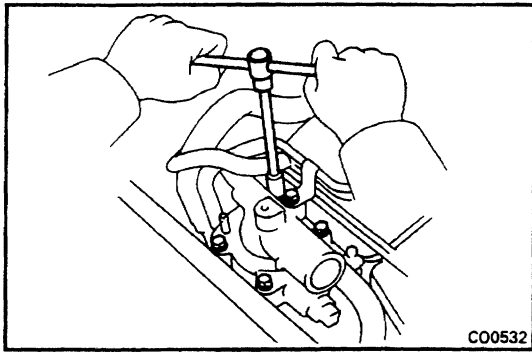
Valve lift:

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**