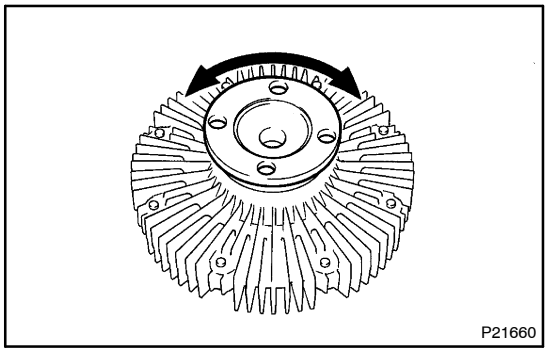
160HQ–01

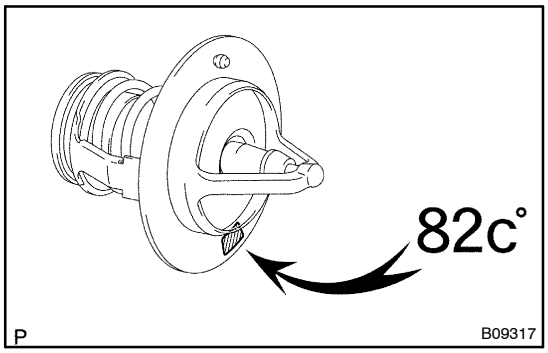
INSPECTION



1. FLUID COUPLING ASSY

(a) Check that the fluid coupling is not damaged and that no silicon oil leaks.

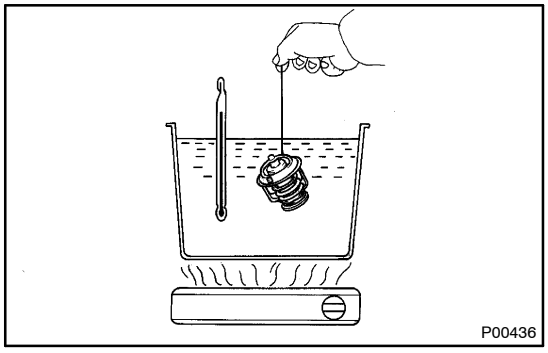
If necessary, replace the fluid coupling.



2. THERMOSTAT

HINT:

The thermostat is numbered with the valve opening temperature.



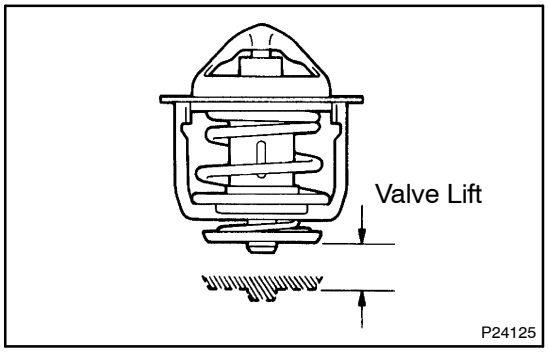
(a) Immerse the thermostat in water an gradually heat the water.

(b) Check the valve opening temperature.

Valve opening temperature:
80 – 84°C (176 – 183°F)

HINT:

If the valve opening temperature is not as specified, replace the thermostat.



(c) Check the valve lift.

Valve lift: 8 mm (0.31 in.) or more at 95°C (203°F)

HINT:

If the valve lift is not as specified, replace the thermostat.

(d) Check that the valve is fully closed when the thermostat is at low temperatures (below 40 °C (104 °F)).

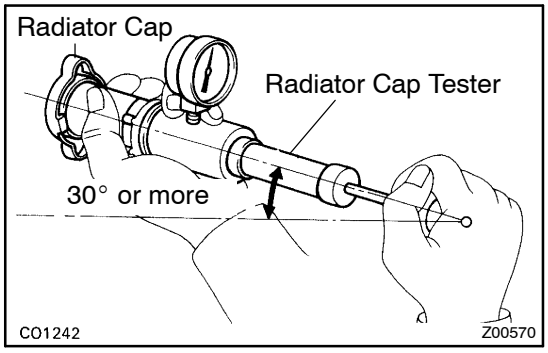
HINT:

If not closed, replace the thermostat.

3. RADIATOR CAP SUB–ASSY

NOTICE:

- **If the reservoir cap has contaminations, always rinse it with water.**
- **Before using a radiator cap tester, wet the relief valve and pressure valve with engine coolant or water.**



(a) Using a radiator cap tester, slowly pump the tester and check that air is coming from the vacuum valve.
Pump speed: 1 push / (3 seconds or more)

NOTICE:
Push the pump at a constant speed.

HINT:
- Pump speed: 1 push / (3 seconds or more)
- If air is not coming from the vacuum valve, replace the reservoir cap.

(b) Pump the tester and measure the relief valve opening pressure.
Standard opening pressure:
93 – 122 kPa (0.95 – 1.25 kgf/cm^2, 13.4 – 17.6 psi)
Minimum opening pressure:
78 kPa (0.8 kgf/cm^2, 11.4 psi)

NOTICE:
This pump speed is for the first pump only (in order to close the vacuum valve). After this, the pump speed can be reduced.

HINT:
- Pump speed: 1 push within 1 second
- Use the tester's maximum reading as the opening pressure.
- If the opening pressure is less than minimum, replace the reservoir cap.