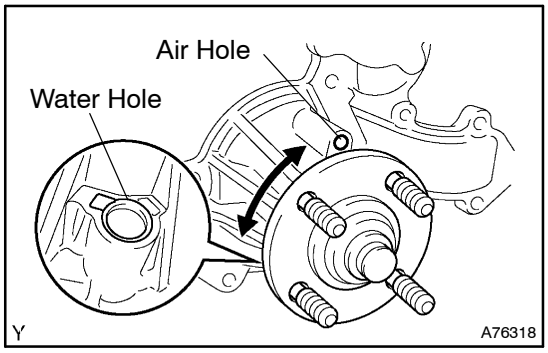
160J9–02

INSPECTION



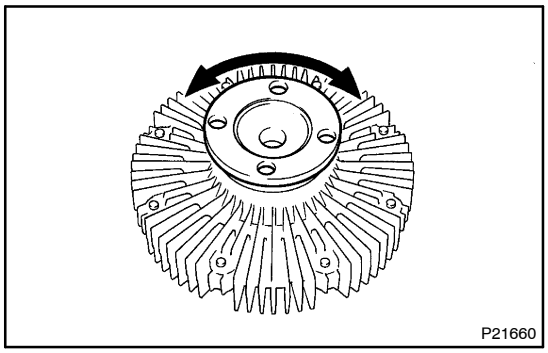
1. INSPECT WATER PUMP ASSY

(a) Visually check the air hole and water hole for coolant leakage.

If leakage is found, replace the water pump.

(b) Turn the pulley seat, and check that the water pump bearing moves smoothly and does not make noise.

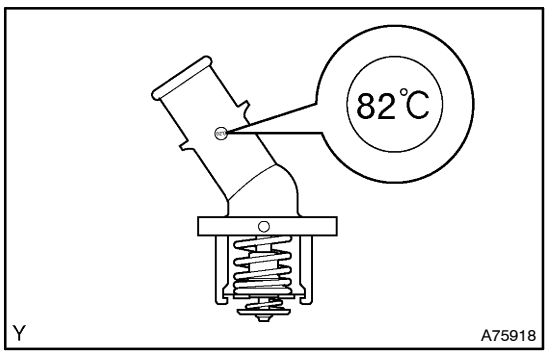
If necessary, replace the water pump.



2. INSPECT FLUID COUPLING ASSY

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

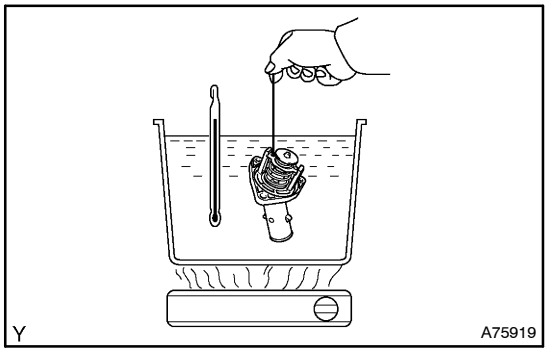
If necessary, replace the fluid coupling.



3. INSPECT WATER INLET W/THERMOSTAT

HINT:

The valve opening temperature is inscribed on the thermostat.

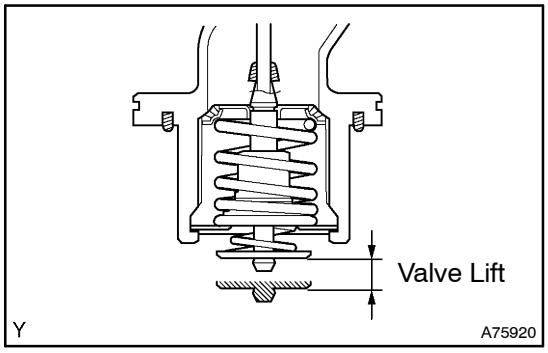


(a) Immerse the thermostat in water and heat the water gradually.

(b) Check the valve opening temperature of the thermostat.

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

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)

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

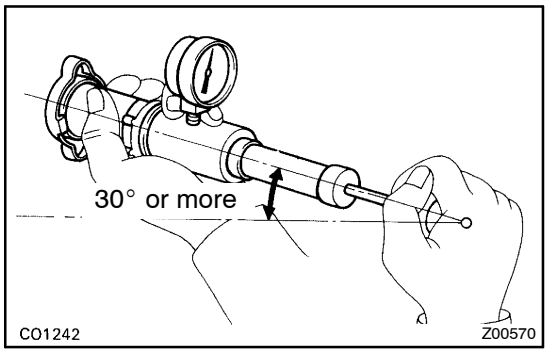
(d) Check that the valve is fully closed when the thermostat is at low temperature (below 40 °C (104 °F)).

If not closed, replace the thermostat.

4. INSPECT RADIATOR CAP SUB–ASSY

NOTICE:

- **If the reservoir cap has contaminations, rinse it with water.**
- **Before using a radiator cap tester, wet the relief valve and the 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 per 3 seconds or more

NOTICE:

Push the pump at a constant speed.

HINT:

- Pump speed: 1 push per 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 to 123 kPa (0.95 to 1.25 kgf/cm^2, 13.5 to 17.8 psi)
Minimum opening pressure:
78 kPa (0.8 kgf/cm^2, 11.4 psi)

NOTICE:

The following pump speed is for the first pump only (in order to close the vacuum valve). After the first pump, the pump speed can be reduced.

HINT:

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