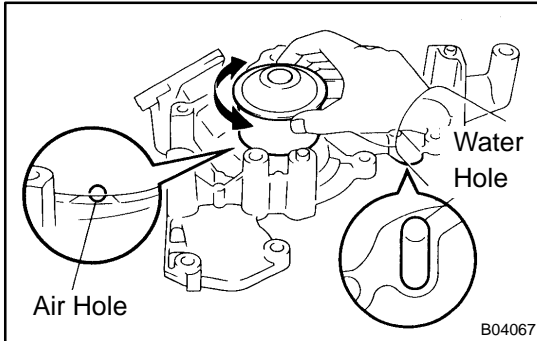


## INSPECTION



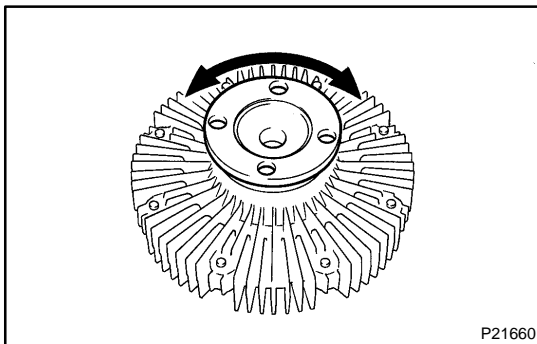
### 1. WATER PUMP ASSY

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

If leakage is found, replace the water pump and timing belt.

- (b) Turn the pulley, and check that the water pump bearing moves smoothly and quietly.

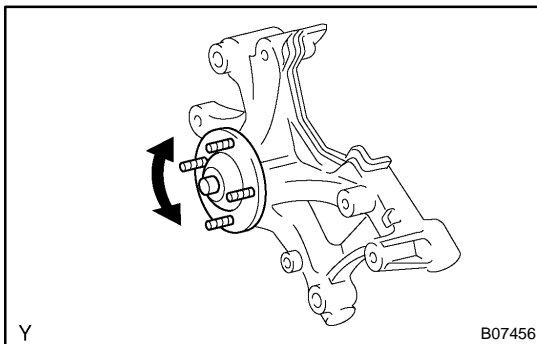
If necessary, replace the water pump.



### 2. FLUID COUPLING ASSY

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

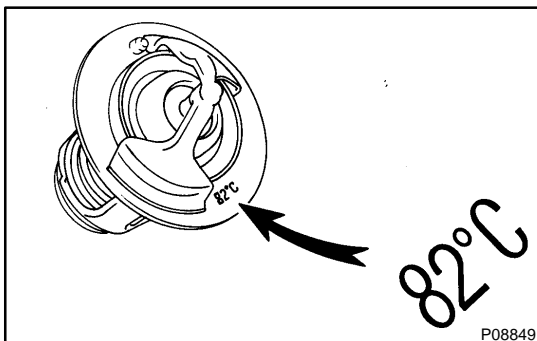
If necessary, replace the fluid coupling.



### 3. FAN BRACKET SUB-ASSY

- (a) Check the turning smoothness of the fan pulley.

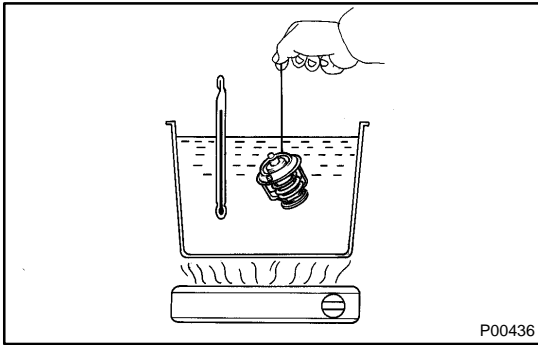
If necessary, replace the pulley bracket.



### 4. THERMOSTAT

HINT:

The thermostat is numbered with the valve opening temperature.



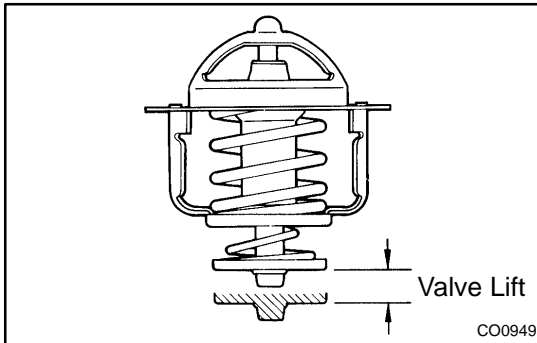
- (a) Immerse the thermostat in water and gradually heat the water.

- (b) Check the valve opening temperature.

**Valve opening temperature:**

**80 - 84°C (176 - 183°F)**

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



- (c) Check the valve lift.

**Valve lift: 10 mm (0.39 in.) or more at 95°C (203°F)**

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

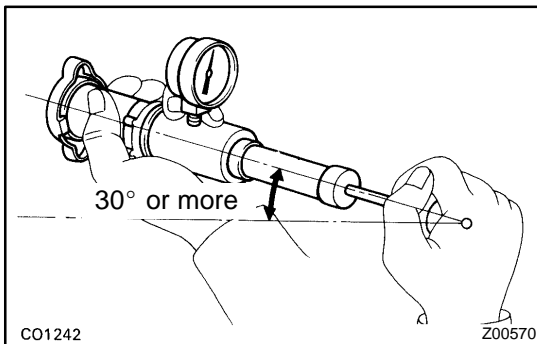
- (d) Check that the valve is fully closed when the thermostat is at low temperatures (below 40°C (104°F)).

If not closed, replace the thermostat.

## 5. 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 - 123 kPa (0.95 - 1.25 kgf/cm<sup>2</sup>, 13.5 - 17.8 psi)**

**Minimum opening pressure:**

**78 kPa (0.8 kgf/cm<sup>2</sup>, 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.