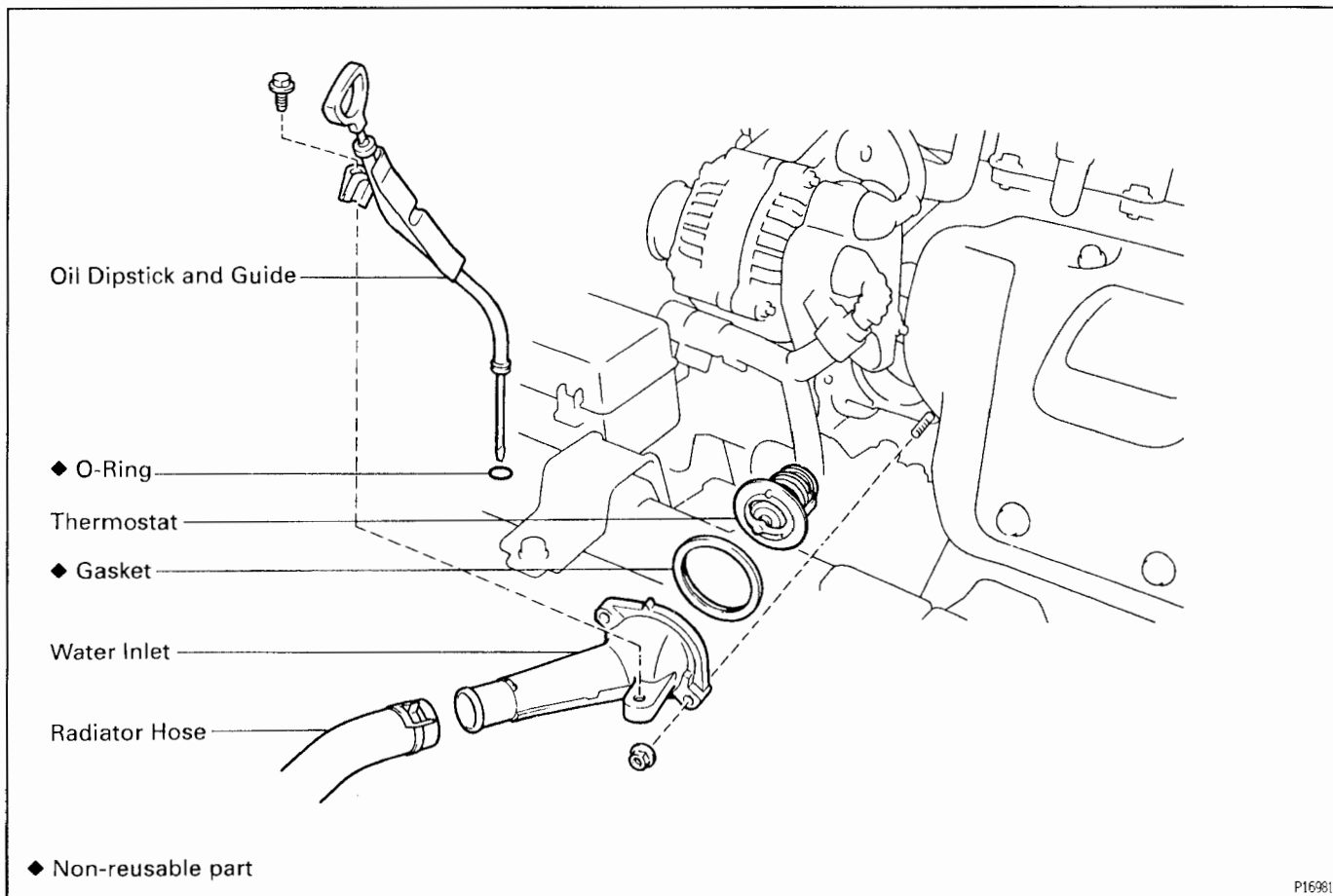


# THERMOSTAT COMPONENTS FOR REMOVAL AND INSTALLATION

EG180-08

EG



## THERMOSTAT REMOVAL

EG419-01

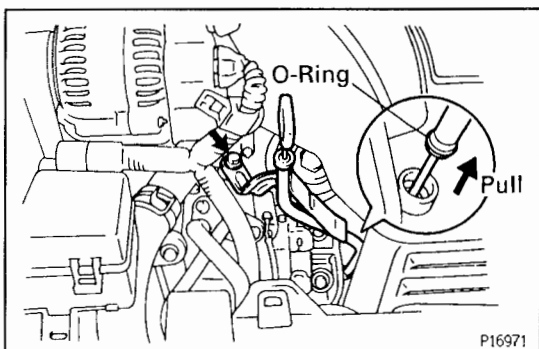
### (See Components for Removal and Installation)

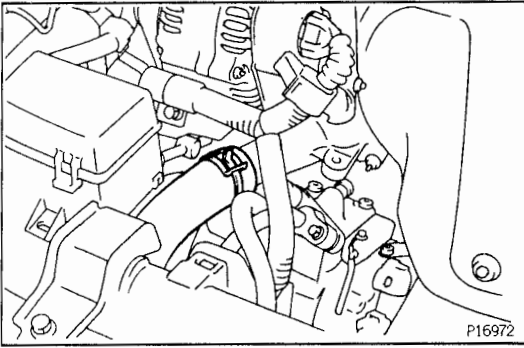
**HINT:** Removal of the thermostat would have an adverse effect, causing a lowering of cooling efficiency. Do not remove the thermostat, even if the engine tends to overheat.

#### 1. DRAIN ENGINE COOLANT

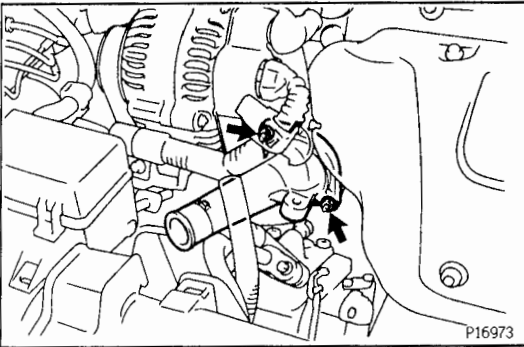
#### 2. REMOVE OIL DIPSTICK AND GUIDE

- (a) Remove the bolt.
- (b) Pull out the oil dipstick guide, and remove it and the oil dipstick.
- (c) Remove the O-ring from the oil dipstick guide.

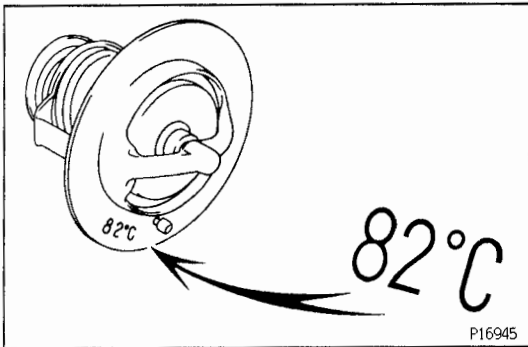




3. **DISCONNECT RADIATOR HOSE FROM WATER INLET**



4. **REMOVE WATER INLET AND THERMOSTAT**
- Remove the 2 nuts, water inlet and thermostat.
  - Remove the gasket from the thermostat.

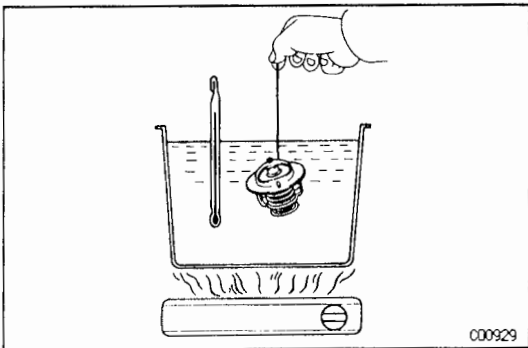


## THERMOSTAT INSPECTION

EQ13H-08

### INSPECT THERMOSTAT

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

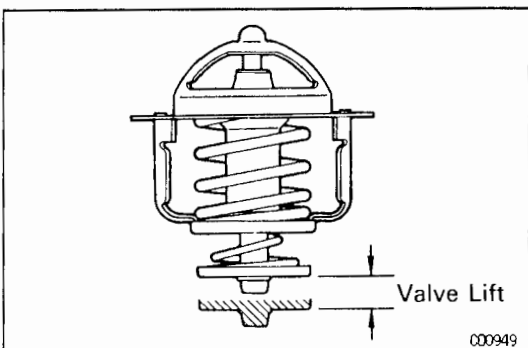


- Immerse the thermostat in water and gradually heat the water.
- Check the valve opening temperature.

**Valve opening temperature:**

**80 – 84°C (176 – 183°F)**

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



- Check the valve lift.

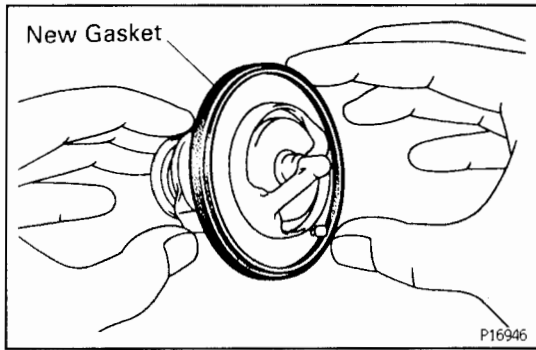
**Valve lift:**

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

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

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

If not closed, replace the thermostat.

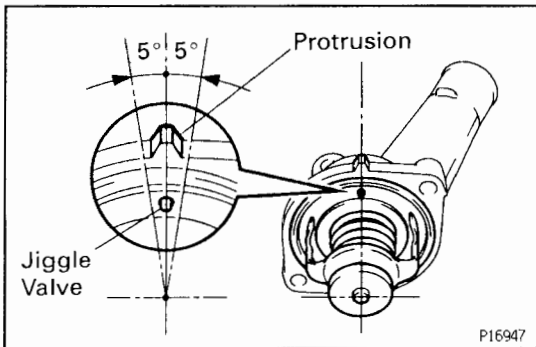


## THERMOSTAT INSTALLATION

(See Components for Removal and Installation)

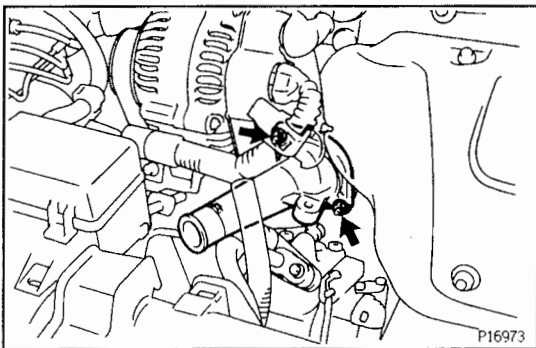
### 1. PLACE THERMOSTAT IN WATER PUMP

- (a) Install a new gasket to the thermostat.



- (b) Align the jiggle valve of the thermostat with the protrusion of the water inlet, and insert the thermostat in the water inlet.

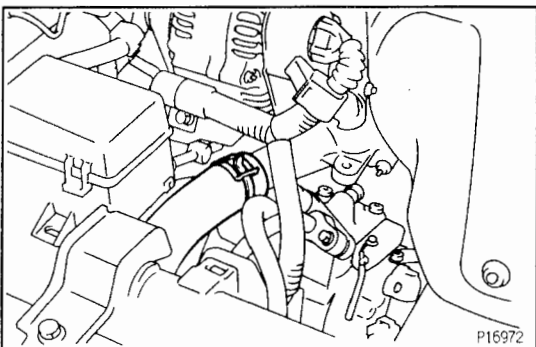
HINT: The jiggle valve may be set within 5° of either side of the prescribed position.



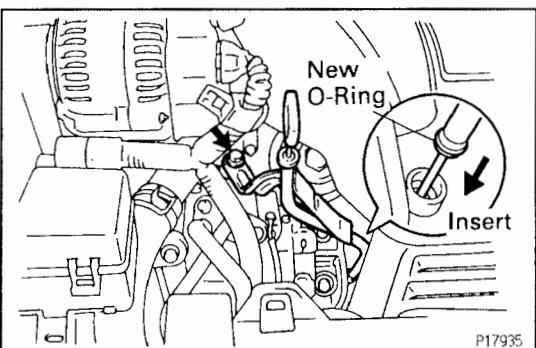
### 2. INSTALL WATER INLET AND THERMOSTAT

Install the water inlet and thermostat with the 2 nuts.

Torque: 9.0 N·m (92 kgf·cm, 80 in·lbf)



### 3. CONNECT RADIATOR HOSE TO WATER INLET



### 4. INSTALL OIL DIPSTICK AND GUIDE

- (a) Install a new O-ring to the oil dipstick guide.  
 (b) Apply soapy water to the O-ring.  
 (c) Insert the oil dipstick guide into the guide hole of the cylinder block.  
 (d) Install the oil dipstick and guide with the bolt.

### 5. FILL WITH ENGINE COOLANT

### 6. START ENGINE AND CHECK FOR LEAKS

### 7. CHECK ENGINE OIL LEVEL