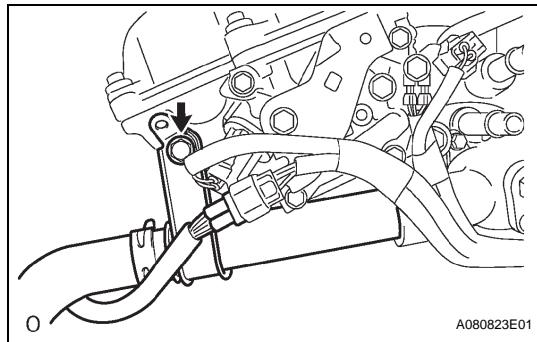


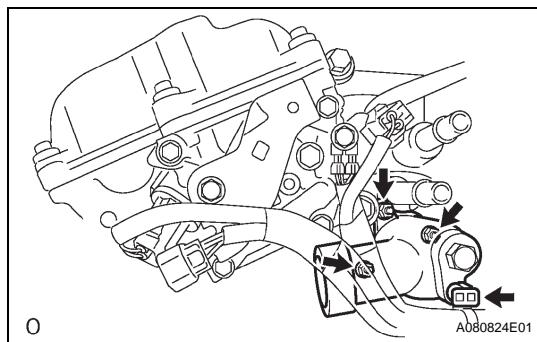
## REMOVAL

1. DRAIN ENGINE COOLANT (See page [CO-7](#))
2. REMOVE BATTERY
3. REMOVE AIR CLEANER CAP SUB-ASSEMBLY
  - (a) Remove air cleaner cap sub-assembly (See page [ST-5](#)).
4. REMOVE AIR CLEANER FILTER ELEMENT SUB-ASSEMBLY
5. REMOVE AIR CLEANER INLET NO.2 (See page [CO-1](#))
6. REMOVE AIR CLEANER CASE (See page [CO-1](#))
7. REMOVE AIR CLEANER BRACKET (See page [CO-1](#))
8. REMOVE AIR CLEANER INLET NO.1 (See page [CO-1](#))
9. REMOVE STARTER ASSEMBLY (TMMWV MADE) (See page [CO-1](#))
10. REMOVE WATER INLET PIPE (TMC MADE)
  - (a) Remove the bolt and the water inlet pipe.
  - (b) Remove the O-ring from the water inlet pipe.



### 11. REMOVE WATER INLET (TMC MADE)

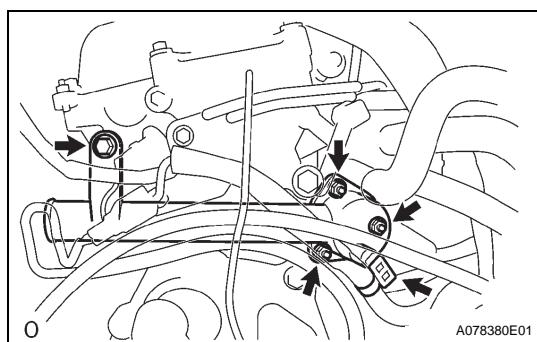
- (a) Disconnect the wire harness clamp.
- (b) Remove the 3 nuts and the water inlet.

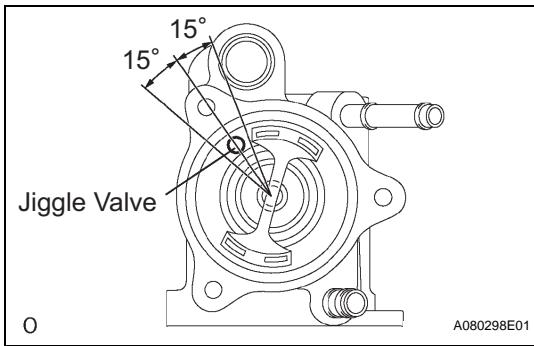


### 12. REMOVE WATER INLET (TMMWV MADE)

- (a) Disconnect the wire harness clamp.
- (b) Remove the bolt and 3 nuts, then remove the water inlet.

### 13. REMOVE THERMOSTAT





## INSTALLATION

### 1. INSTALL THERMOSTAT

- (a) Install a new gasket to the thermostat.
- (b) Align the jiggle valve of the thermostat and water inlet, and insert the thermostat in the water inlet housing.

#### HINT:

The jiggle valve should be set within 15° of either side of the prescribed position.

### 2. INSTALL WATER INLET

**Torque: 8.0 N\*m (82 kgf\*cm, 71 in.\*lbf)**

### 3. INSTALL WATER INLET PIPE

- (a) Install a new O-ring to the water inlet pipe.
- (b) Apply soapy water to the O-ring.
- (c) Connect the water inlet pipe to the water inlet.
- (d) Install the bolt which is used to fix the water inlet pipe to the cylinder head.

**Torque: 20 N\*m (199 kgf\*cm, 14 ft.\*lbf)**

### 4. INSTALL WATER INLET

**Torque: Nut**

**8.0 N\*m (82 kgf\*cm, 71 in.\*lbf)**

**Bolt**

**20 N\*m (199 kgf\*cm, 14 ft.\*lbf)**

**CO**

### 5. INSTALL STARTER ASSEMBLY (TMMWV MADE)

- (a) Install starter assembly (See page [ST-12](#)).

### 6. INSTALL AIR CLEANER INLET NO.1

- (a) Install air cleaner inlet No. 1 (See page [ST-12](#)).

### 7. INSTALL AIR CLEANER BRACKET

- (a) Install air cleaner bracket (See page [ST-12](#)).

### 8. INSTALL AIR CLEANER CASE

- (a) Install air cleaner case (See page [ST-12](#)).

### 9. INSTALL AIR CLEANER INLET NO.2

- (a) Install air cleaner inlet No. 2 (See page [ST-12](#)).

### 10. INSTALL AIR CLEANER CAP SUB-ASSEMBLY

- (a) Install air cleaner cap sub-assembly (See page [ST-12](#)).

### 11. ADD ENGINE COOLANT (See page [CO-7](#))

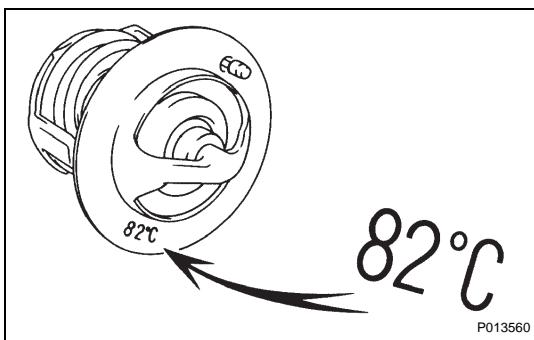
## 12. CHECK FOR ENGINE COOLANT (See page [CO-1](#)) INSPECTION

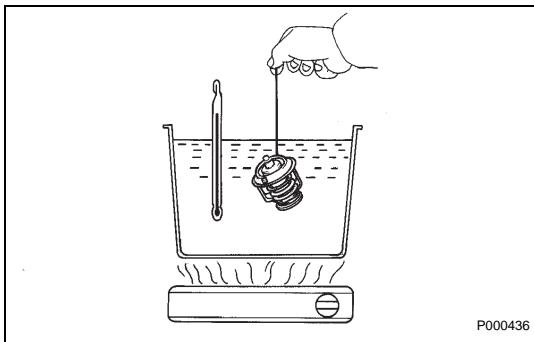
### 1. INSPECT THERMOSTAT

- (a) Check the thermostat number.

#### HINT:

The thermostat is numbered with the valve opening temperature.





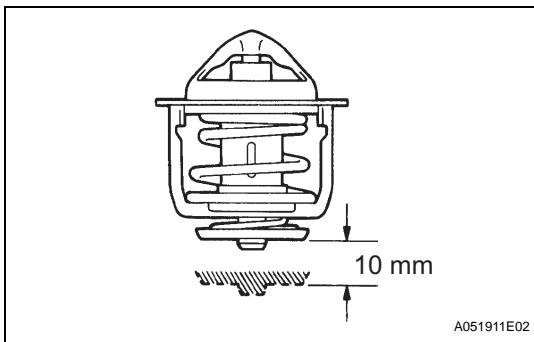
- (b) Immerse the thermostat in water and gradually heat the water.

- (c) 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.



- (d) Check the valve lift.

**Valve lift:**

**10 mm (0.394 in.) or more at 95°C (203°F)**

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

- (e) Check that the valve is fully closed when the thermostat temperature is low (below 77°C (171°F)). If not closed, replace the thermostat.

CO