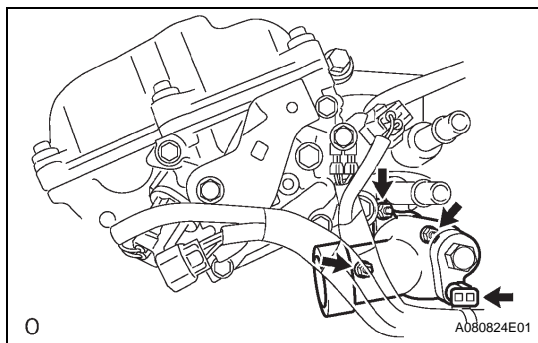
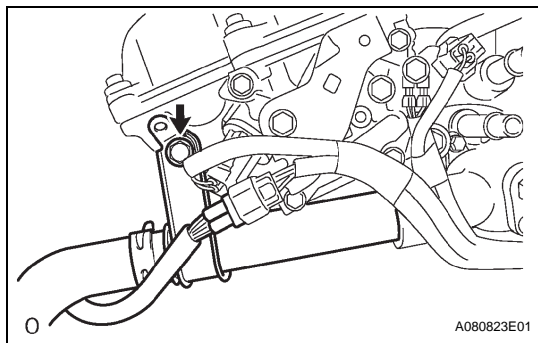
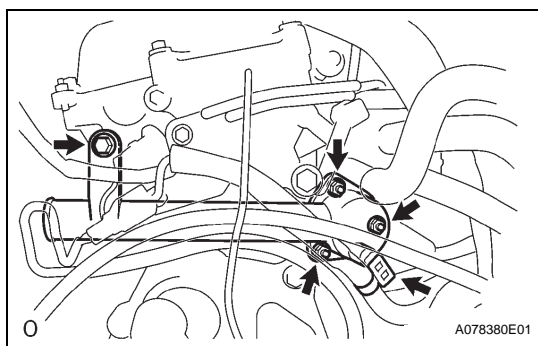


REMOVAL

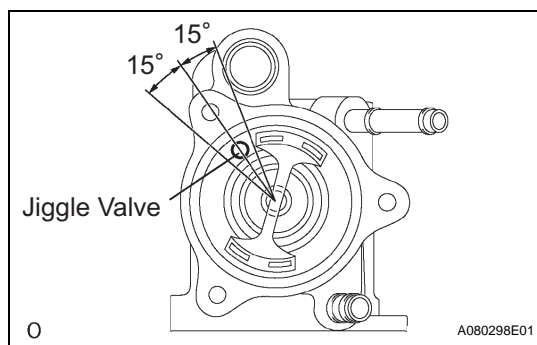
1. DRAIN ENGINE COOLANT (See page [CO-7](#))
2. REMOVE BATTERY
3. REMOVE AIR CLEANER CAP SUB-ASSEMBLY
 - (a) Remove air cleaner cap sub-assembly (See page [ST-5](#)).
4. REMOVE AIR CLEANER FILTER ELEMENT SUB-ASSEMBLY
5. REMOVE AIR CLEANER INLET NO.2 (See page [CO-1](#))
6. REMOVE AIR CLEANER CASE (See 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

- Install a new gasket to the thermostat.
- 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

- Install a new O-ring to the water inlet pipe.
- Apply soapy water to the O-ring.
- Connect the water inlet pipe to the water inlet.
- 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)

5. INSTALL STARTER ASSEMBLY (TMMWV MADE)

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

6. INSTALL AIR CLEANER INLET NO.1

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

7. INSTALL AIR CLEANER BRACKET

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

8. INSTALL AIR CLEANER CASE

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

9. INSTALL AIR CLEANER INLET NO.2

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

10. INSTALL AIR CLEANER CAP SUB-ASSEMBLY

- 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](#))

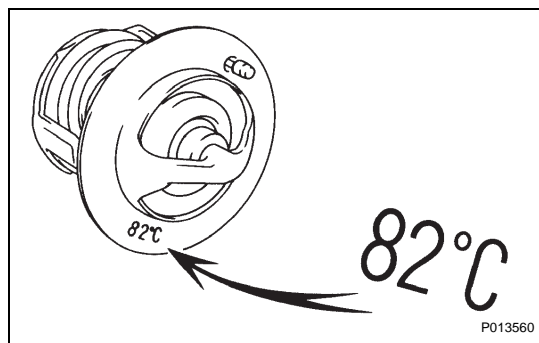
INSPECTION

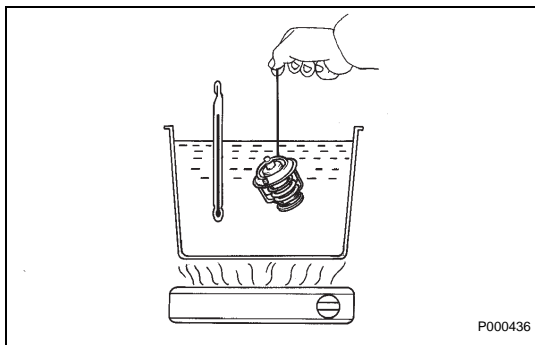
1. INSPECT THERMOSTAT

- Check the thermostat number.

HINT:

The thermostat is numbered with the valve opening temperature.



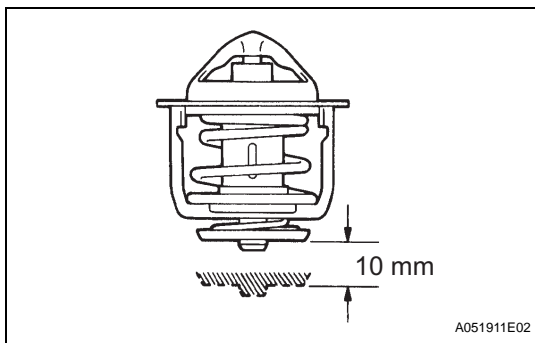


- (b) Immerse the thermostat in water and gradually heat the water.
- (c) Check the valve opening temperature of the thermostat.

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.