

4. Engine Coolant Temperature Sensor

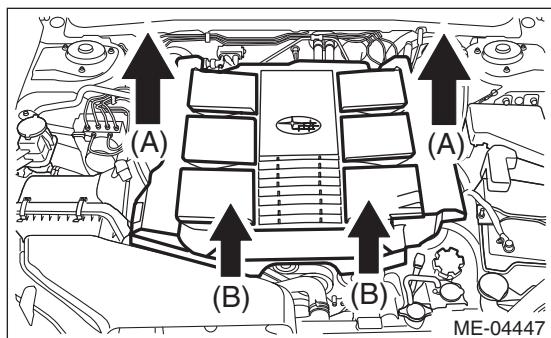
A: REMOVAL

- 1) Remove the collector cover.

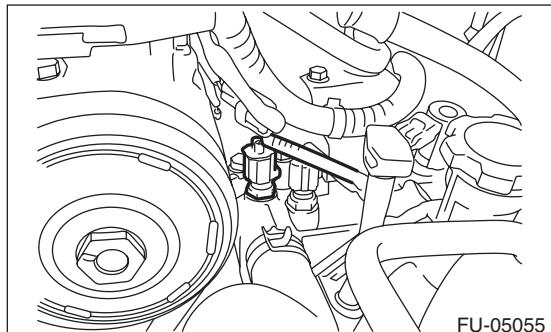
NOTE:

Follow these procedures for removal of the collector cover.

- (1) Lift up the rear side holding two positions (A).
- (2) Lift up the front side holding two positions (B) while moving it in the forward direction of the vehicle.



- 2) Disconnect the ground cable from battery.
- 3) Drain engine coolant. <Ref. to CO(H6DO)-12, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 4) Disconnect the connectors from the engine coolant temperature sensor.



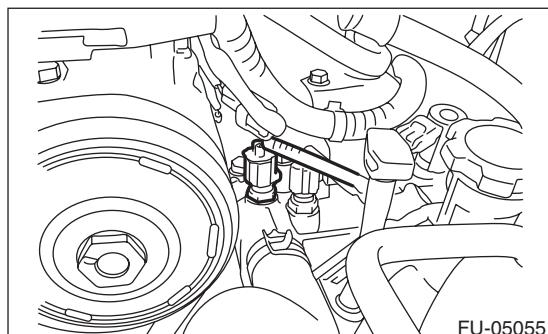
- 5) Remove the engine coolant temperature sensor.

B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

22 N·m (2.2 kgf·m, 16.2 ft·lb)



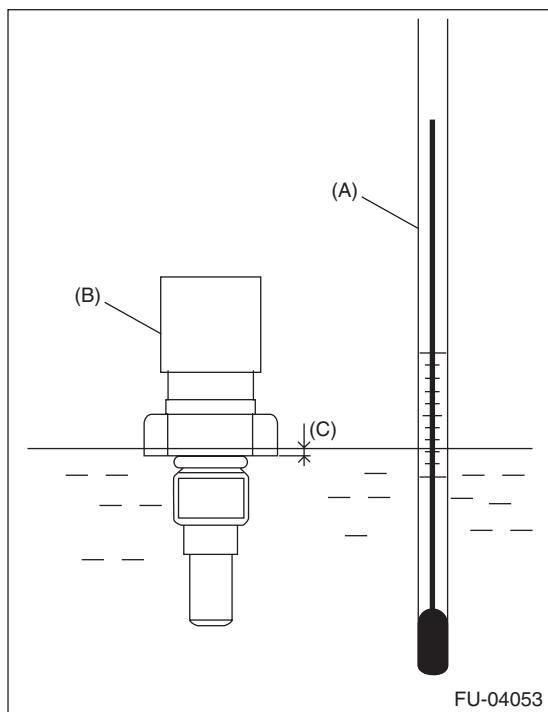
FU-05055

C: INSPECTION

- 1) Check that the engine coolant temperature sensor has no deformation, cracks or other damages.
- 2) Immerse the engine coolant temperature sensor and a thermometer in water.

CAUTION:

Take care not to allow water to get into the engine coolant temperature sensor connector. Completely remove any water inside.



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(A) Thermometer

(B) Engine coolant temperature sensor

(C) Hexagonal part height: To approx. $\frac{1}{3}$

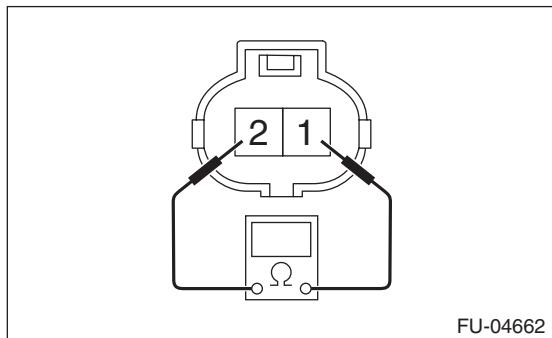
Engine Coolant Temperature Sensor

FUEL INJECTION (FUEL SYSTEMS)

3) Raise water temperature gradually, measure the resistance between the engine coolant temperature sensor terminals when the temperature is 20°C (68°F) and 80°C (176°F).

NOTE:

Agitate the water for even temperature distribution.



FU-04662

Water temperature	Terminal No.	Standard
20°C (68°F)	1 and 2	$2.45 \pm 0.2 \text{ k}\Omega$
80°C (176°F)		$0.318 \pm 0.013 \text{ k}\Omega$