

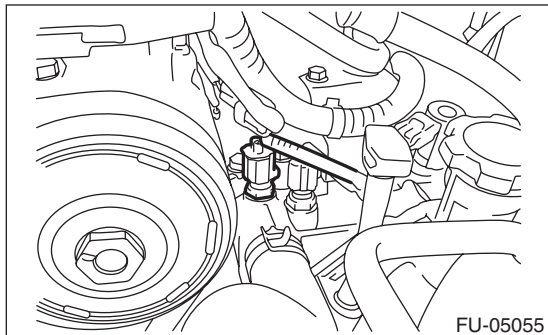
# Engine Coolant Temperature Sensor

FUEL INJECTION (FUEL SYSTEMS)

## 4. Engine Coolant Temperature Sensor

### A: REMOVAL

- 1) Remove the collector cover.
- 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

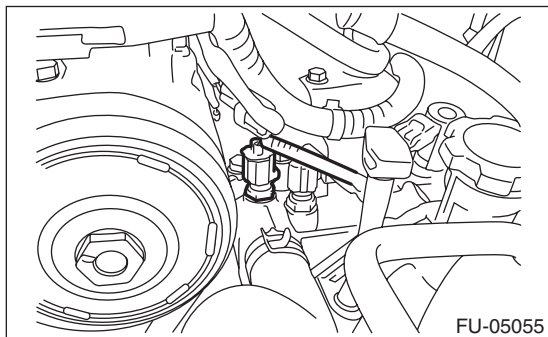
Install in the reverse order of removal.

NOTE:

Use a new gasket.

**Tightening torque:**

**22 N·m (2.2 kgf·m, 16.2 ft·lb)**

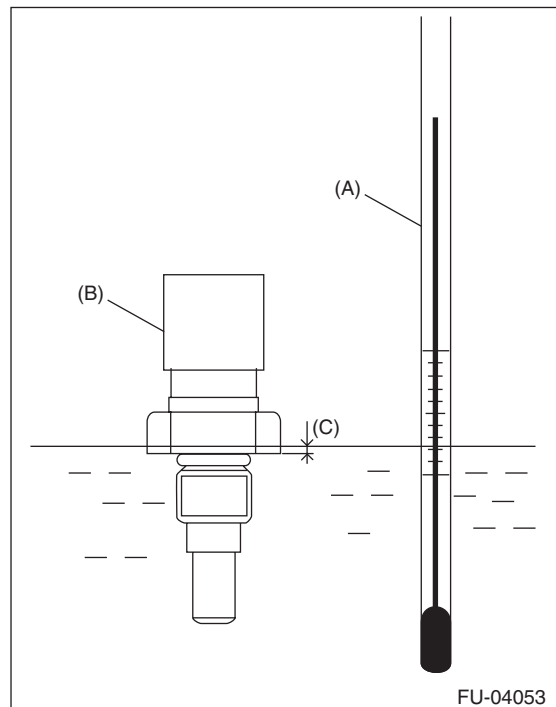


### C: INSPECTION

- 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.**

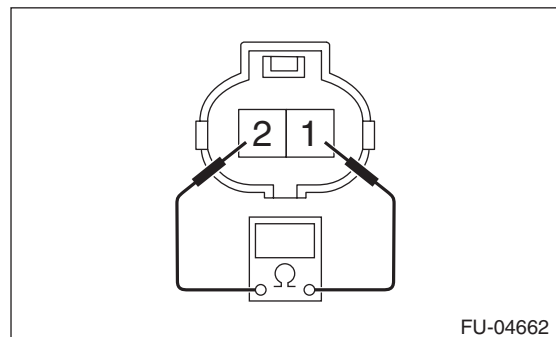


- (A) Thermometer  
 (B) Engine coolant temperature sensor  
 (C) Hexagonal part height: To approx.  $\frac{1}{3}$

- 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.



Water temperature	Terminal No.	Standard
20°C (68°F)	1 and 2	2.45±0.2 kΩ
80°C (176°F)		0.318±0.013 kΩ