

# Crankshaft Position Sensor

## FUEL INJECTION (FUEL SYSTEMS)

### 5. Crankshaft Position Sensor

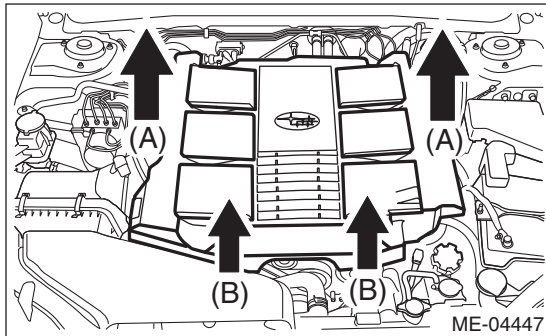
#### A: REMOVAL

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.

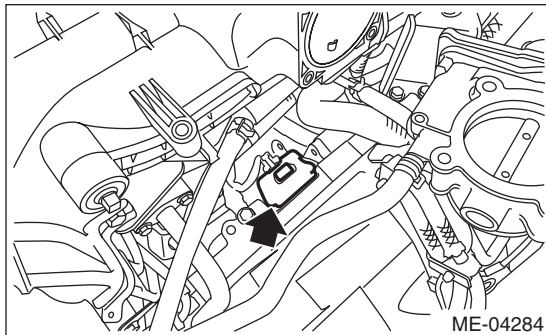


- 2) Disconnect the ground cable from battery.
- 3) Remove the air intake boot assembly. <Ref. to IN(H6DO)-7, REMOVAL, Air Intake Boot.>
- 4) Remove the throttle body from the intake manifold.

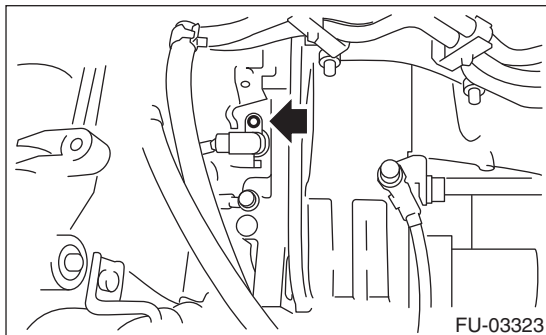
##### NOTE:

Do not disconnect the inlet and outlet hoses of engine coolant.

5) Remove the service hole plug.



6) Remove the crankshaft position sensor.



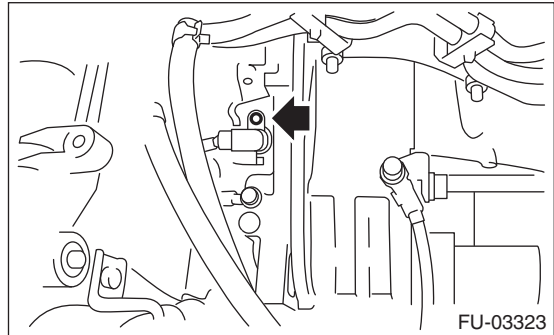
7) Disconnect the connector from crankshaft position sensor.

#### B: INSTALLATION

Install in the reverse order of removal.

##### Tightening torque:

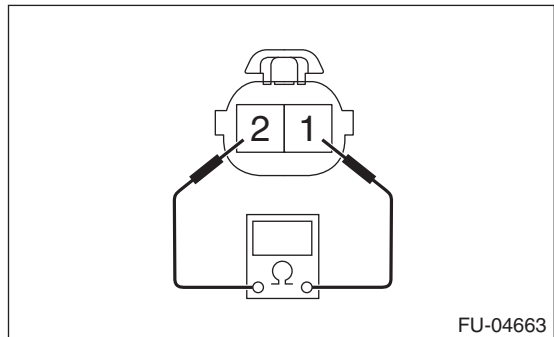
**6.4 N·m (0.7 kgf-m, 4.7 ft-lb)**



#### C: INSPECTION

##### 1. CRANKSHAFT POSITION SENSOR (METHOD WITH CIRCUIT TESTER)

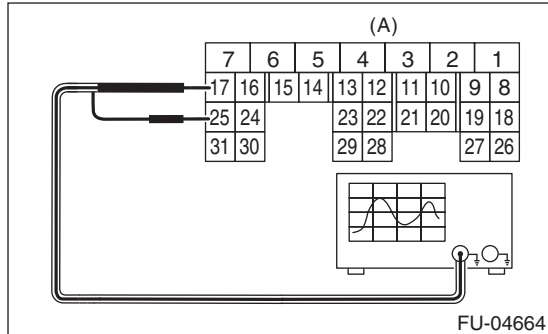
Measure the resistance between crankshaft position sensor terminals.



Terminal No.	Standard
1 and 2	1.86±0.186 kΩ

## 2. CRANKSHAFT POSITION SENSOR (METHOD WITH OSCILLOSCOPE)

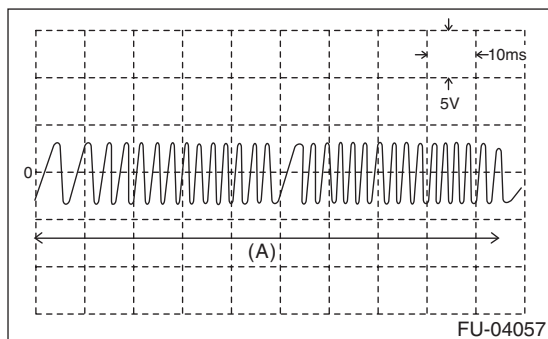
- 1) Prepare an oscilloscope.
- 2) Remove the glove box lid assembly. <Ref. to EI-65, REMOVAL, Glove Box.>
- 3) Connect the probe to ECM connector.



(A) To ECM connector

Terminal No.	Probe
17	+
25	-

- 4) Start the engine and let it idle.
- 5) Check that the pattern is the same as the wave-form and voltage shown below.



(A) One crankshaft rotation

- 6) After inspection, install the related parts in the reverse order of removal.

## 3. OTHER INSPECTIONS

Check that the crankshaft position sensor has no deformation, cracks or other damages.