

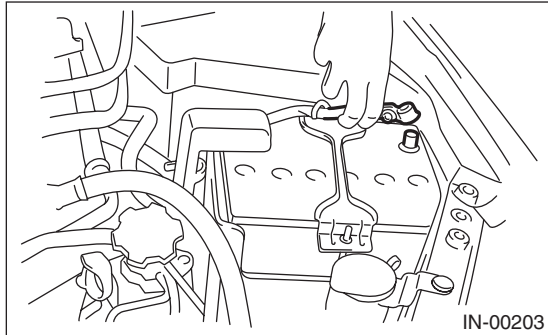
# Crankshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

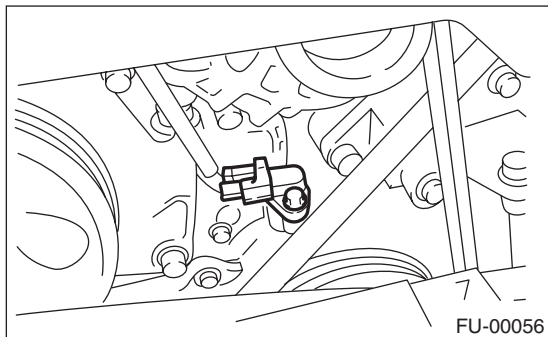
## 5. Crankshaft Position Sensor

### A: REMOVAL

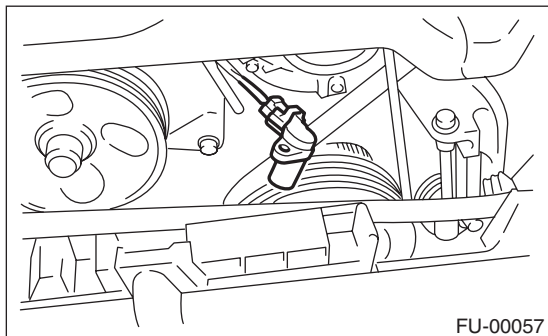
- 1) Disconnect the ground cable from battery.



- 2) Remove the bolt which secures crankshaft position sensor to oil pump.



- 3) Remove the crankshaft position sensor, and then disconnect the connector from it.

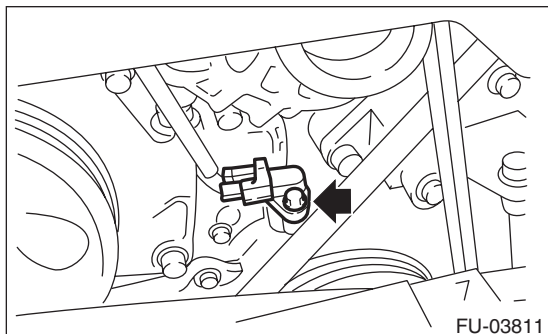


### B: INSTALLATION

Install in the reverse order of removal.

**Tightening torque:**

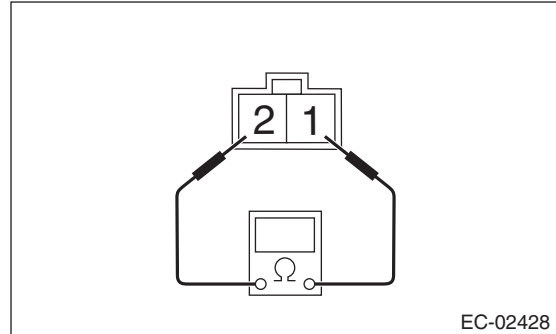
**6.4 N·m (0.7 kgf·m, 4.7 ft·lb)**



### C: INSPECTION

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

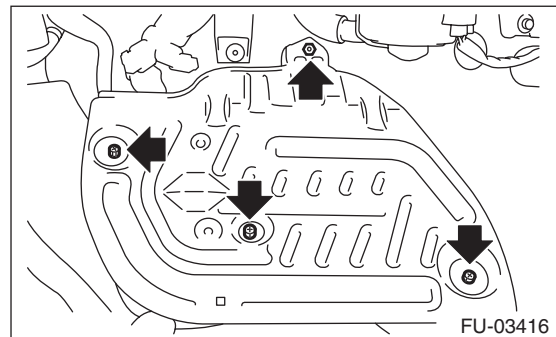
- 1) Measure the resistance between crankshaft position sensor terminals.



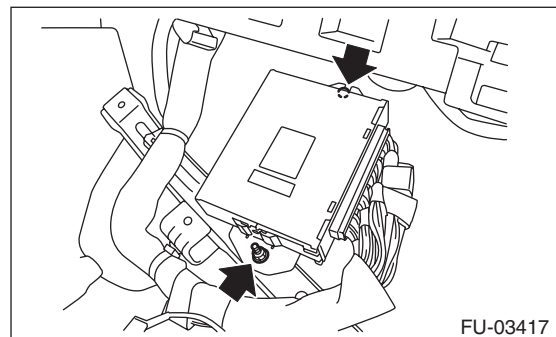
Terminal No.	Standard
1 and 2	2.04±0.204 kΩ

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

- 1) Prepare an oscilloscope.
- 2) Remove the lower inner trim of passenger's side. <Ref. to EI-53, REMOVAL, Lower Inner Trim.>
- 3) Turn over the floor mat of passenger's seat.
- 4) Remove the protect cover.

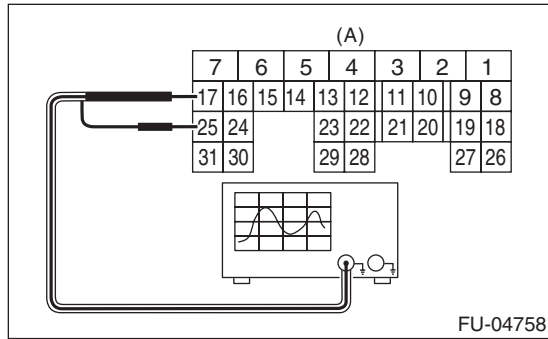


- 5) Remove the nuts and bolts which hold the ECM to the bracket.



# Crankshaft Position Sensor

6) Connect the probe to ECM connector.

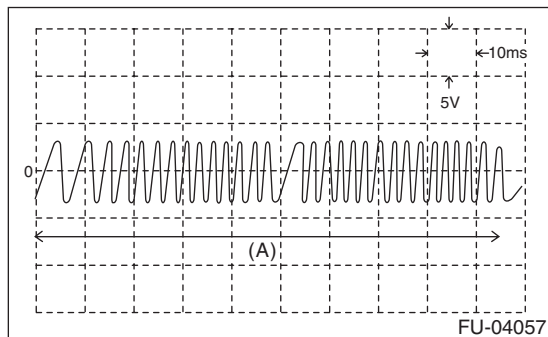


(A) To ECM connector

Terminal No.	Probe
17	+
25	-

7) Start the engine and let it idle.

8) Check the pattern is the same as the waveform and voltage shown below.



(A) One crankshaft rotation

### 3. OTHER INSPECTIONS

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