

## 11. Knock Sensor

### A: REMOVAL

1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

For the 12 volt engine restart battery, disconnect the ground terminal from 12V engine restart battery sensor.

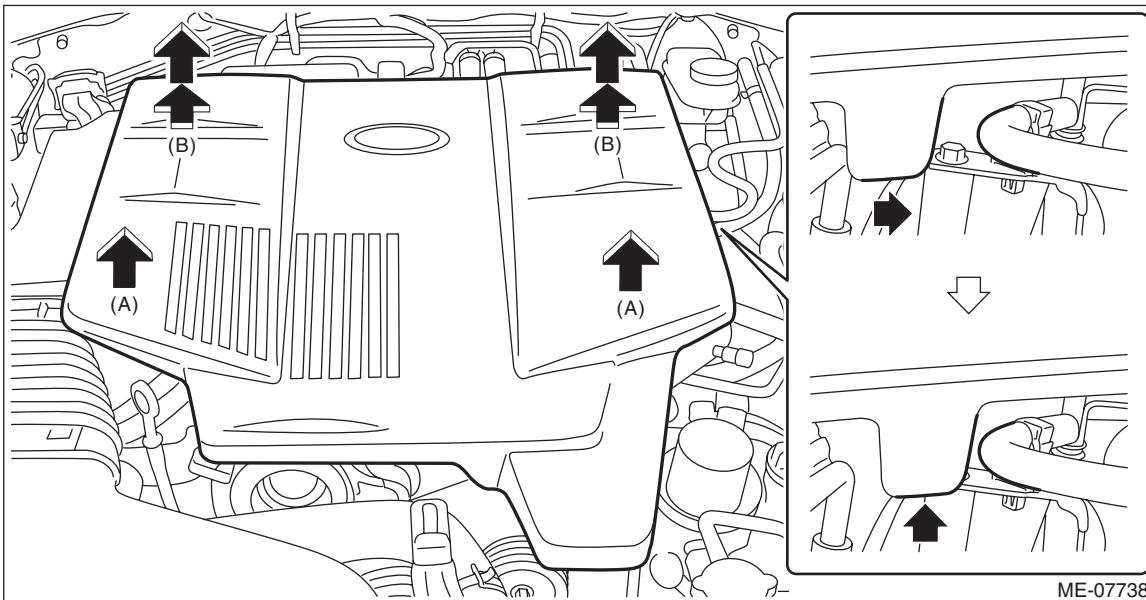
2) Remove the collector cover.

(1) Carefully pull up the front of collector cover at two positions (A).

(2) Carefully pull up the rear of collector cover at two positions (B) while moving it backward.

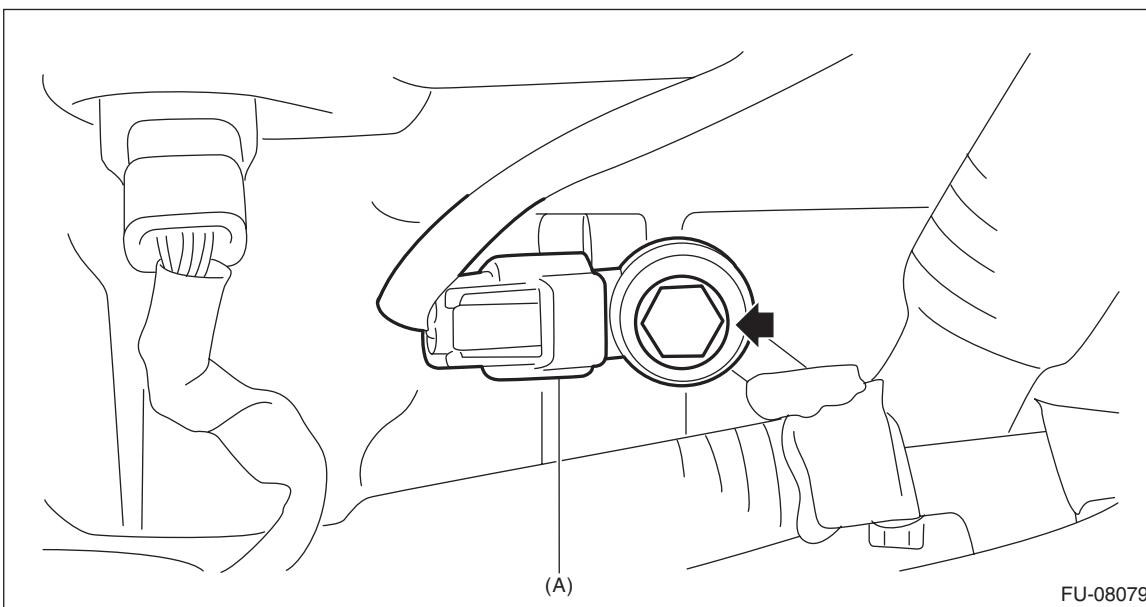
NOTE:

Be careful not to contact the fuel delivery tube when moving the collector cover rearward.



3) Remove the throttle body. <Ref. to FU(H4DO(HEV))-14, REMOVAL, Throttle Body.>

4) Disconnect the connector (A) from the knock sensor, and remove the knock sensor from the cylinder block.



# Knock Sensor

## FUEL INJECTION (FUEL SYSTEMS)

### B: INSTALLATION

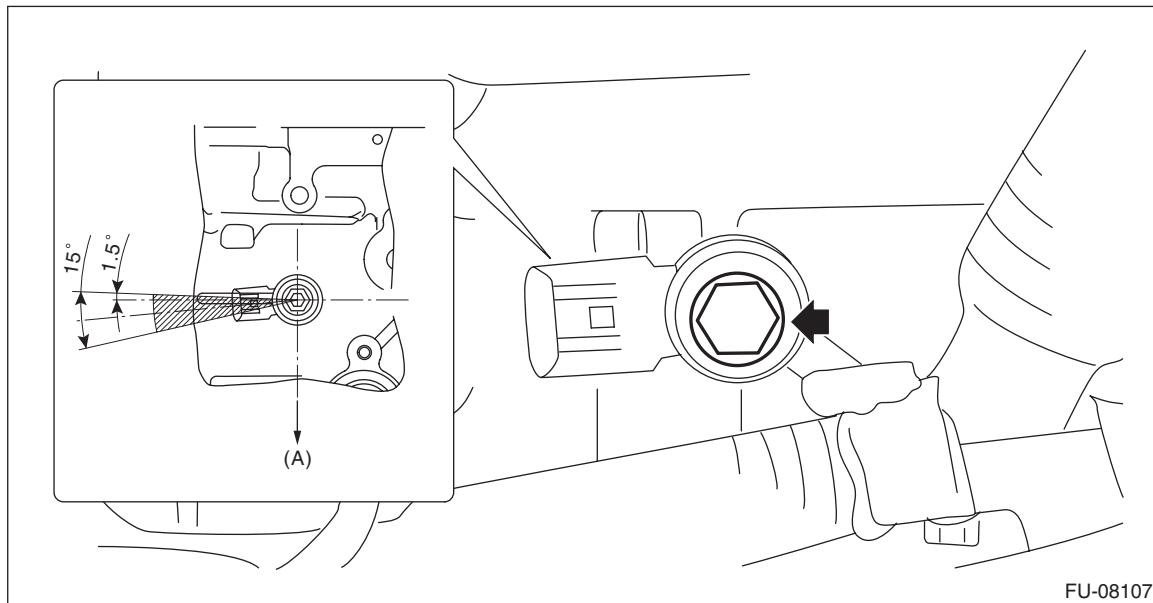
- 1) Install the knock sensor to the cylinder block.

**NOTE:**

The knock sensor should be installed so that the center of the connector is positioned at a 76.5 — 91.5° angle relative to the front of engine.

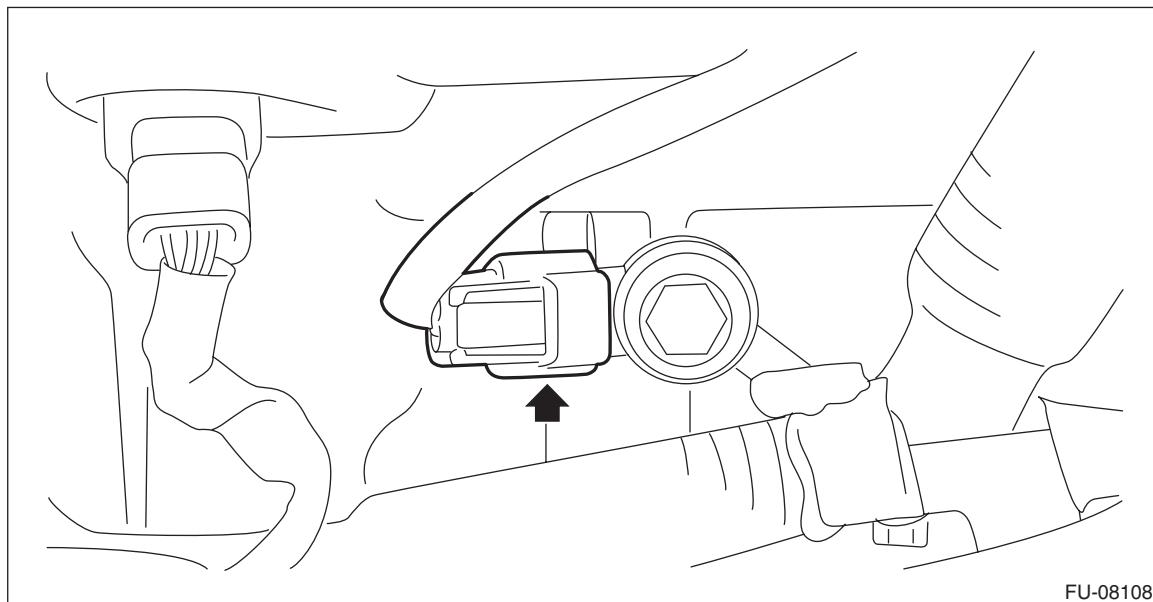
**Tightening torque:**

24 N·m (2.4 kgf·m, 17.7 ft-lb)



(A) Front of engine

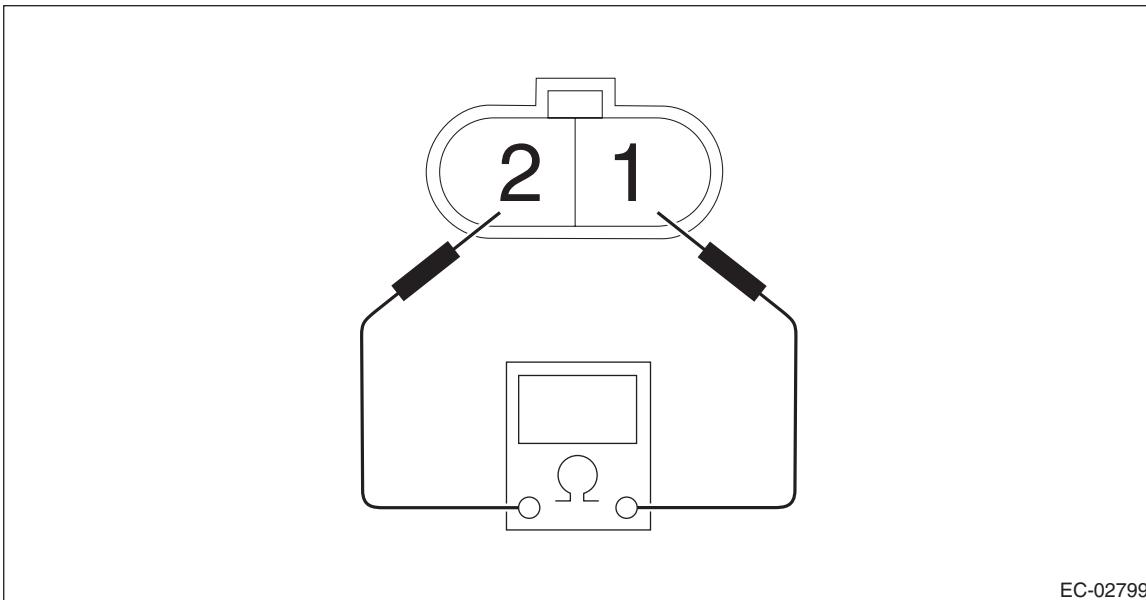
- 2) Connect the connector to the knock sensor.



- 3) Install the throttle body. <Ref. to FU(H4DO(HEV))-16, INSTALLATION, Throttle Body.>
- 4) Install the collector cover.
- 5) Connect the battery ground terminal. <Ref. to NT-5, BATTERY, NOTE, Note.>

### C: INSPECTION

- 1) Check that the knock sensor has no deformation, cracks or other damages.
- 2) Measure the resistance between knock sensor terminals.



Terminal No.	Standard
1 and 2	$560 \pm 28 \text{ k}\Omega$