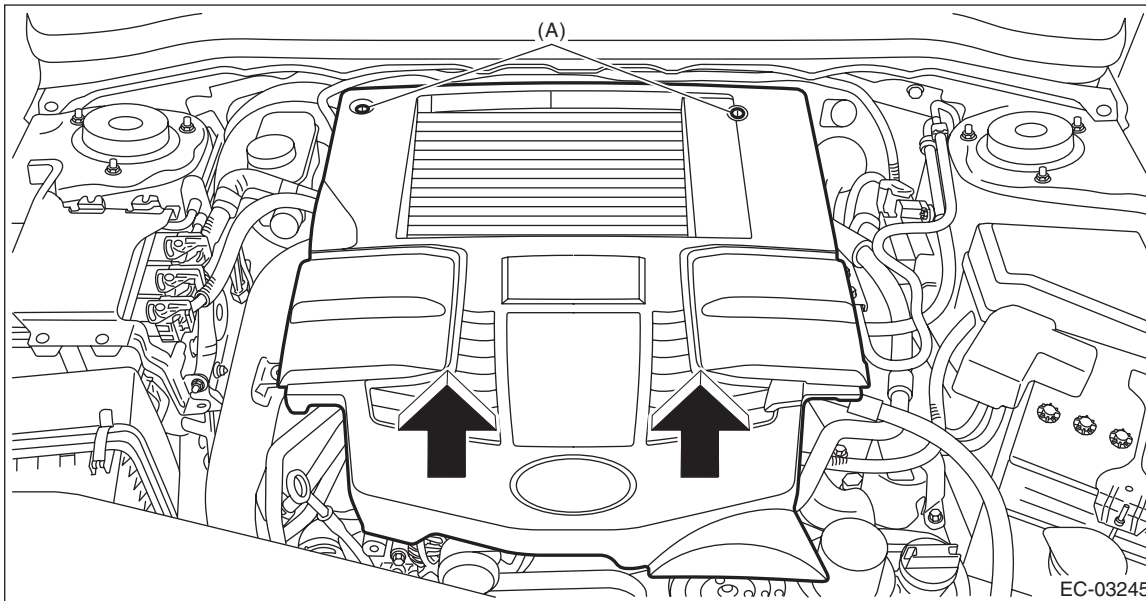


17. Knock Sensor

A: REMOVAL

1. RH SIDE

1) Remove the clip (A), lift the front of the collector cover in the direction of arrow, and then remove the collector cover.

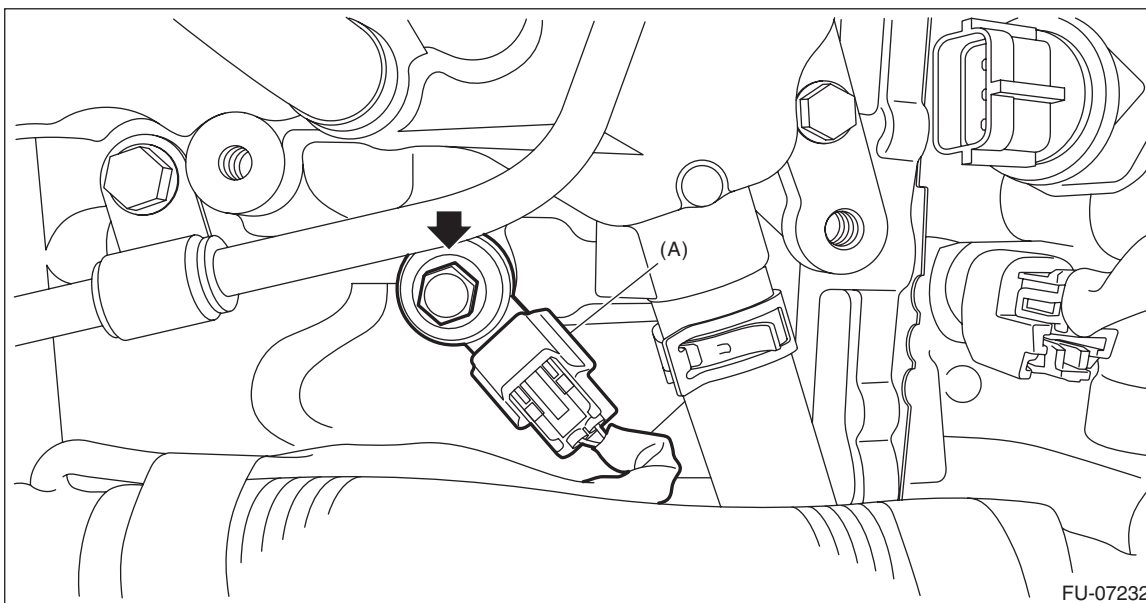


2) Disconnect the ground cable from battery.

3) Remove the intake manifold. <Ref. to FU(H4DOTC)-19, REMOVAL, Intake Manifold.>

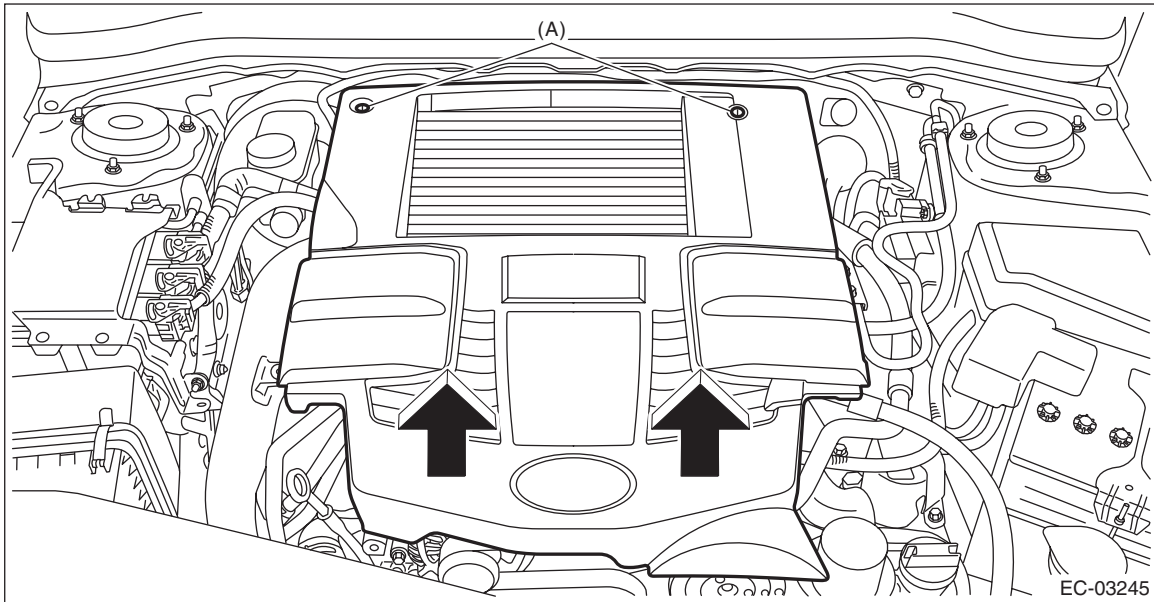
4) Remove the fuel pipe insulator No. 3. <Ref. to FU(H4DOTC)-48, FUEL PIPE INSULATOR NO. 3, REMOVAL, Fuel Insulator.>

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

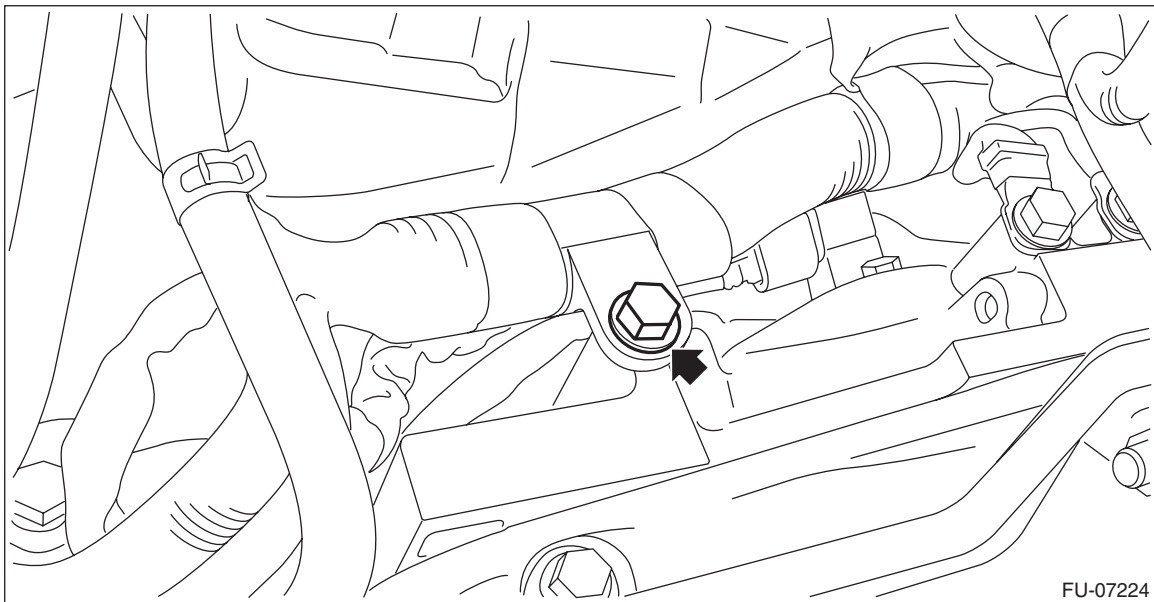


2. LH SIDE

1) Remove the clip (A), lift the front of the collector cover in the direction of arrow, and then remove the collector cover.



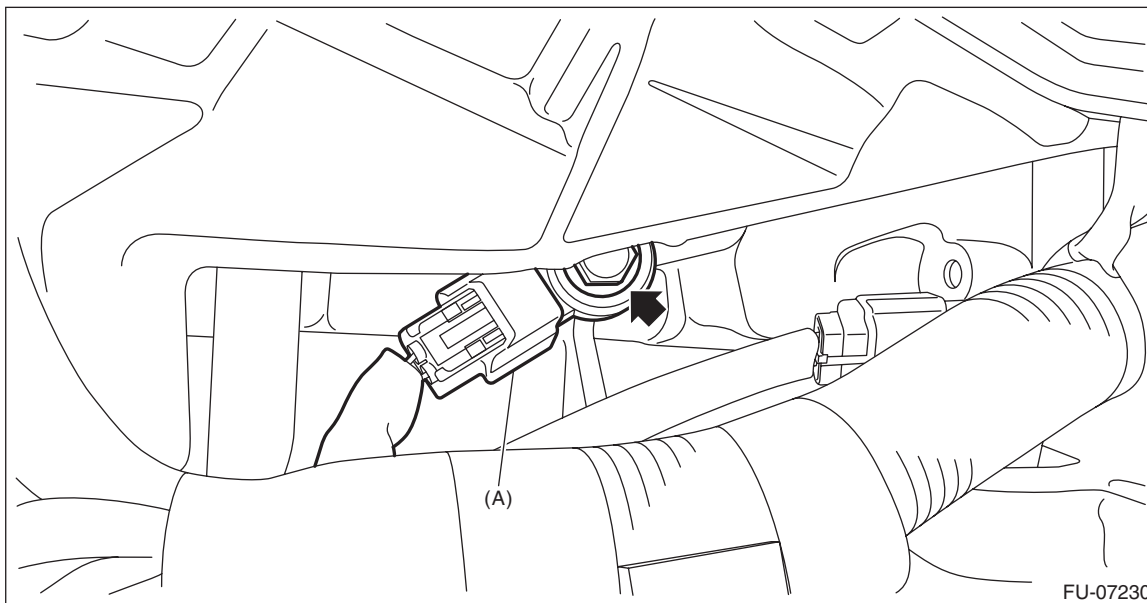
- 2) Disconnect the ground cable from battery.
- 3) Remove the intercooler. <Ref. to IN(H4DOTC)-35, REMOVAL, Intercooler.>
- 4) Remove the throttle body. <Ref. to FU(H4DOTC)-16, REMOVAL, Throttle Body.>
- 5) Remove the bolts securing the engine harness.



Knock Sensor

FUEL INJECTION (FUEL SYSTEMS)

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



B: INSTALLATION

1. RH SIDE

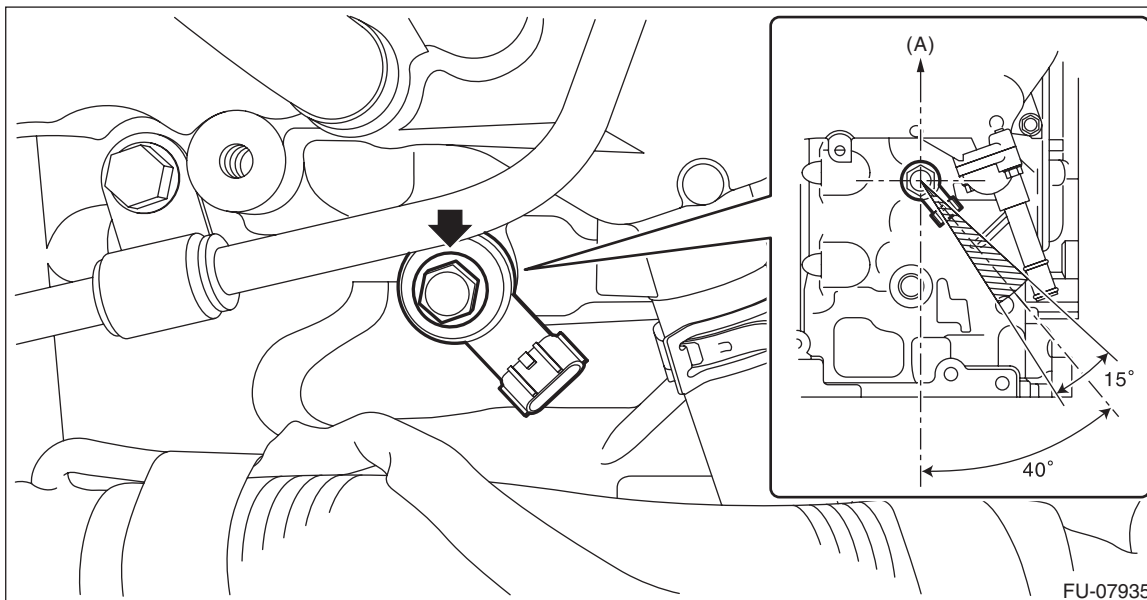
1) Install the knock sensor to the cylinder block.

NOTE:

The knock sensor should be installed so that the center of the connector is positioned at a 32.5° — 47.5° angle relative to the rear of engine.

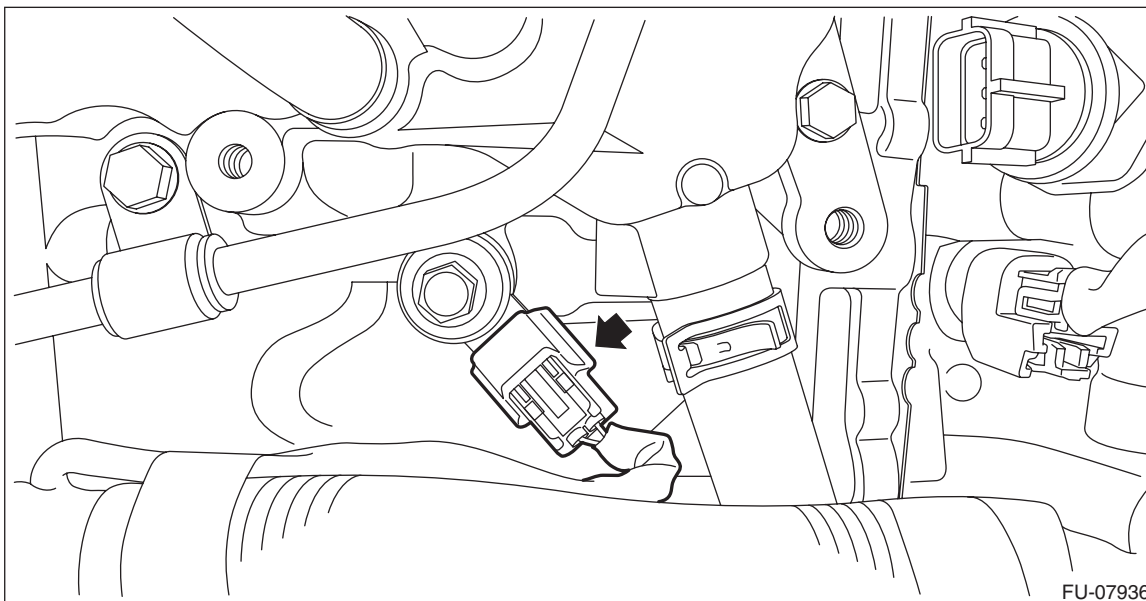
Tightening torque:

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 fuel pipe insulator No. 3. <Ref. to FU(H4DOTC)-50, FUEL PIPE INSULATOR NO. 3, INSTALLATION, Fuel Insulator.>

4) Install the intake manifold. <Ref. to FU(H4DOTC)-29, INSTALLATION, Intake Manifold.>

5) Connect the battery ground terminal.

6) Install the collector cover.

2. LH SIDE

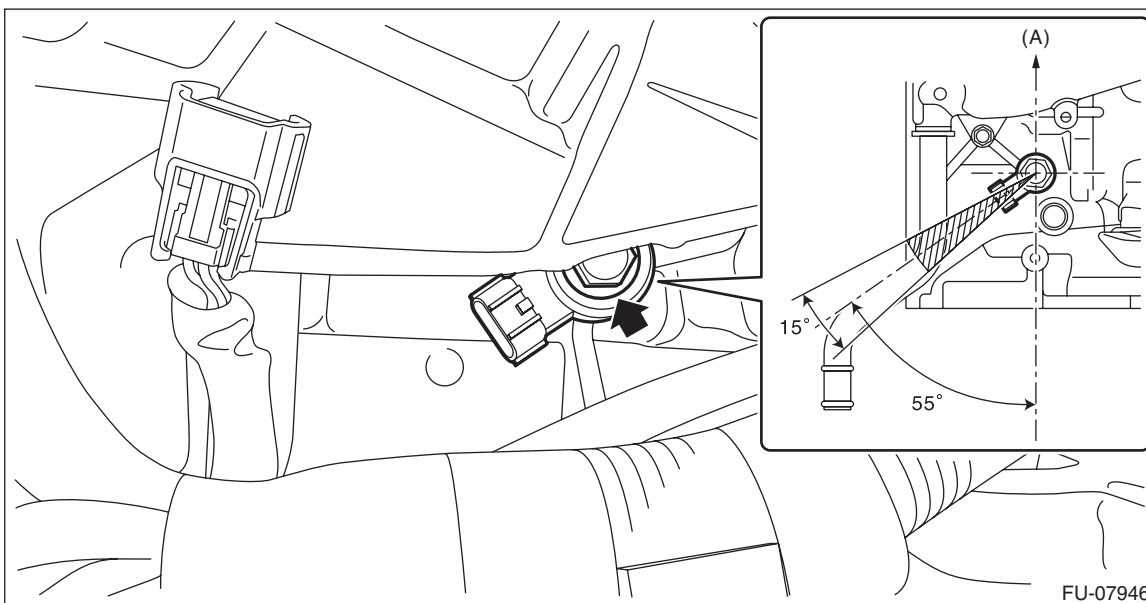
1) Install the knock sensor to the cylinder block.

NOTE:

The knock sensor should be installed so that the center of the connector is positioned at a 47.5 — 62.5° angle relative to the rear of engine.

Tightening torque:

24 N·m (2.4 kgf-m, 17.7 ft-lb)

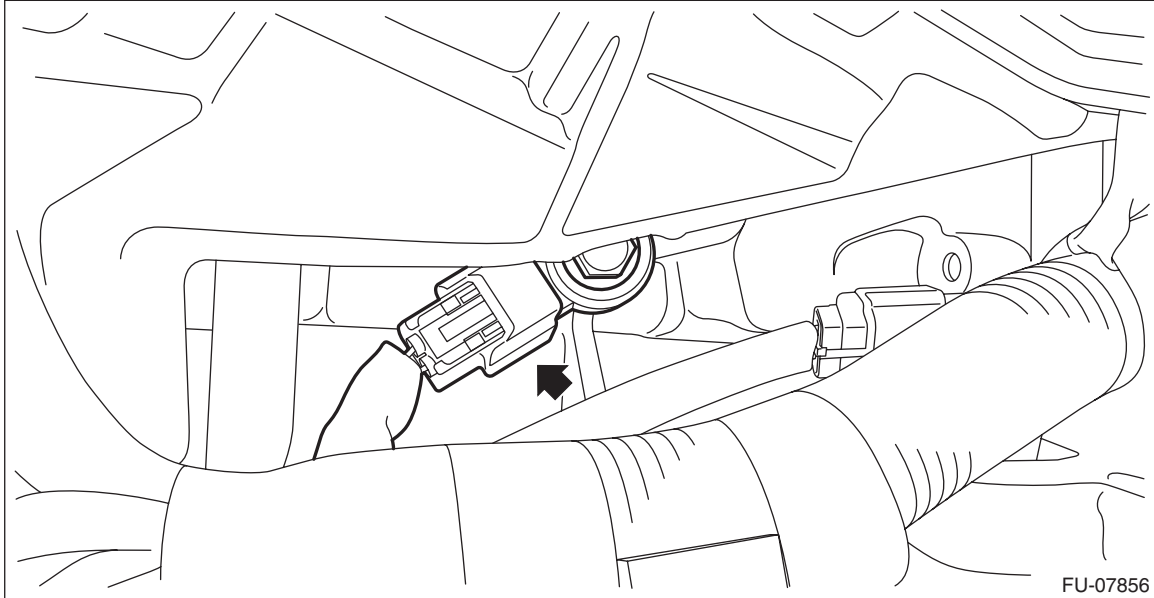


(A) Front of engine

Knock Sensor

FUEL INJECTION (FUEL SYSTEMS)

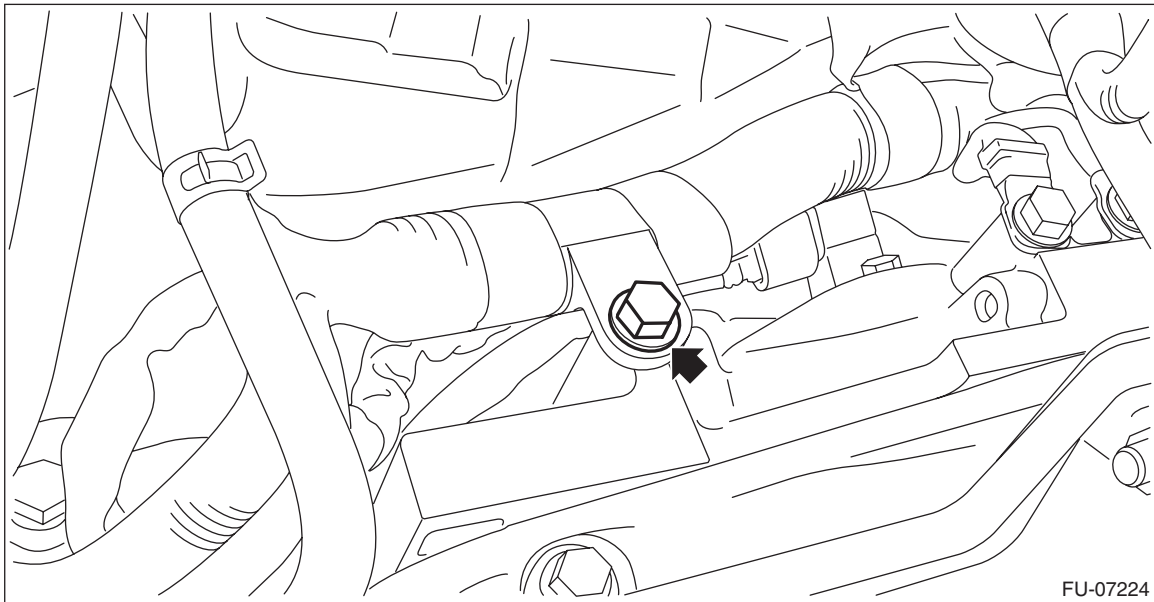
- 2) Connect the connector to the knock sensor.



- 3) Install the bolts securing the engine harness.

Tightening torque:

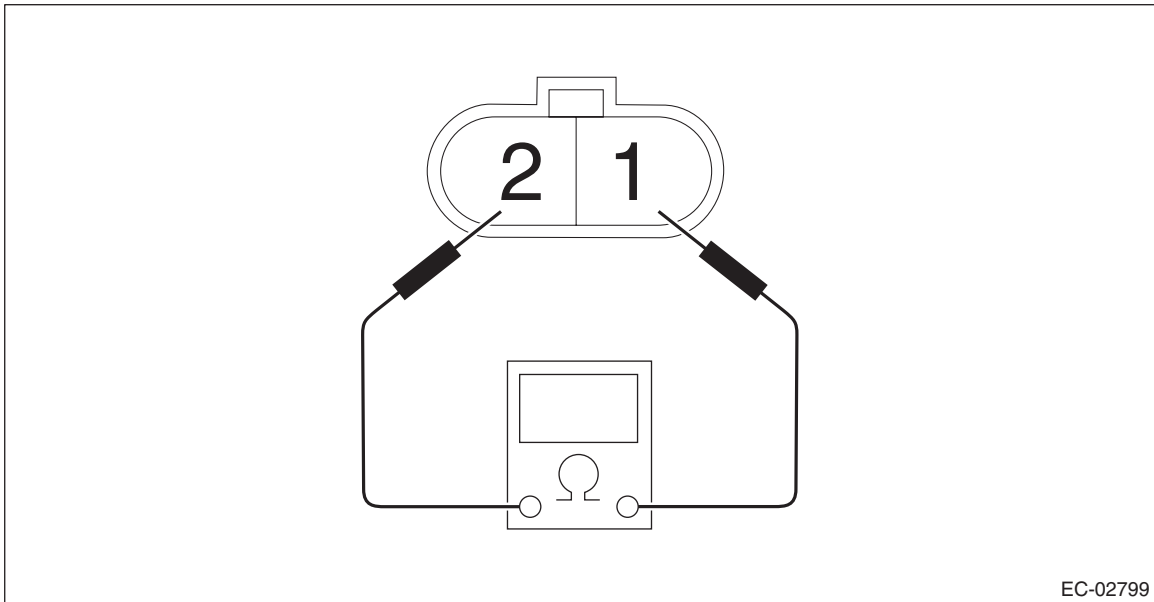
19 N·m (1.9 kgf-m, 14.0 ft-lb)



- 4) Install the throttle body. <Ref. to FU(H4DOTC)-17, INSTALLATION, Throttle Body.>
5) Install the intercooler. <Ref. to IN(H4DOTC)-37, INSTALLATION, Intercooler.>
6) Connect the battery ground terminal.
7) Install the collector cover.

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±28 kΩ