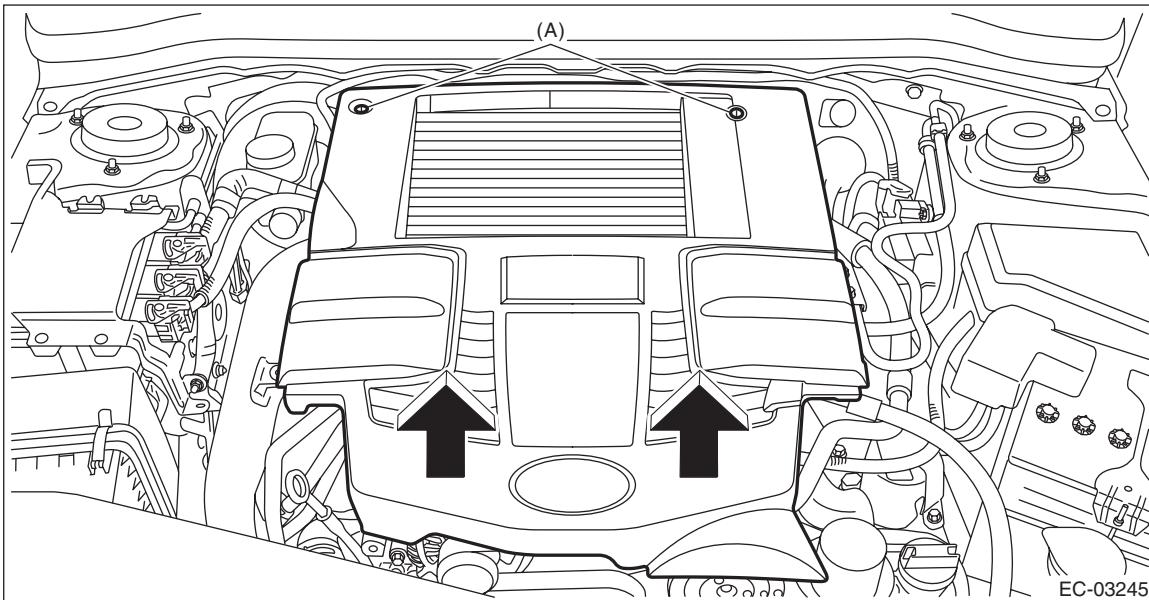


17. Knock Sensor

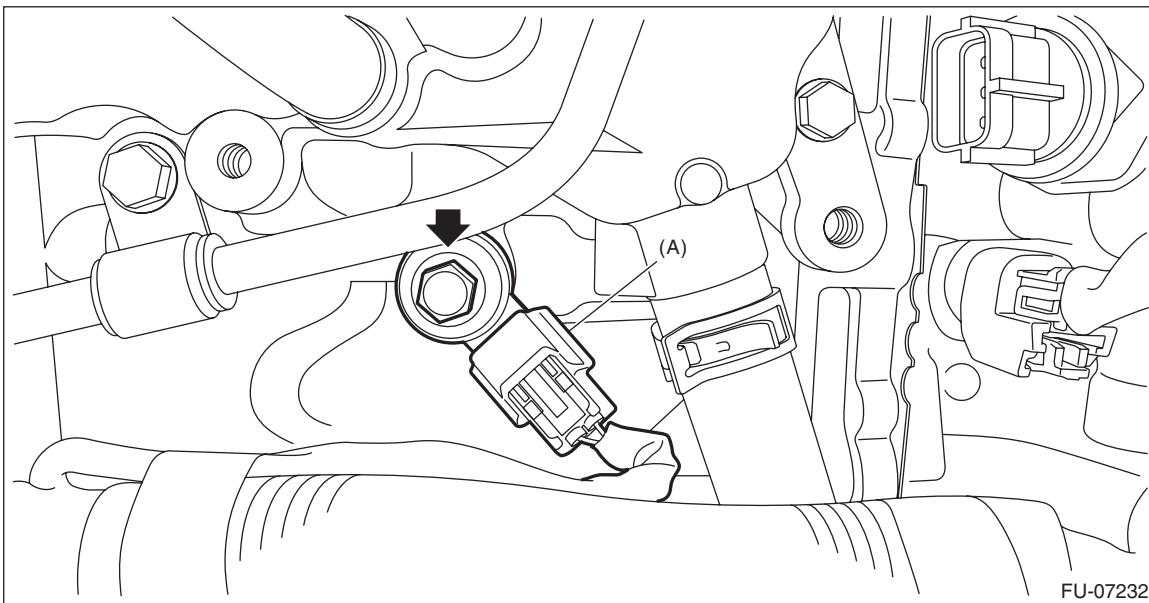
A: REMOVAL

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)-49, 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.

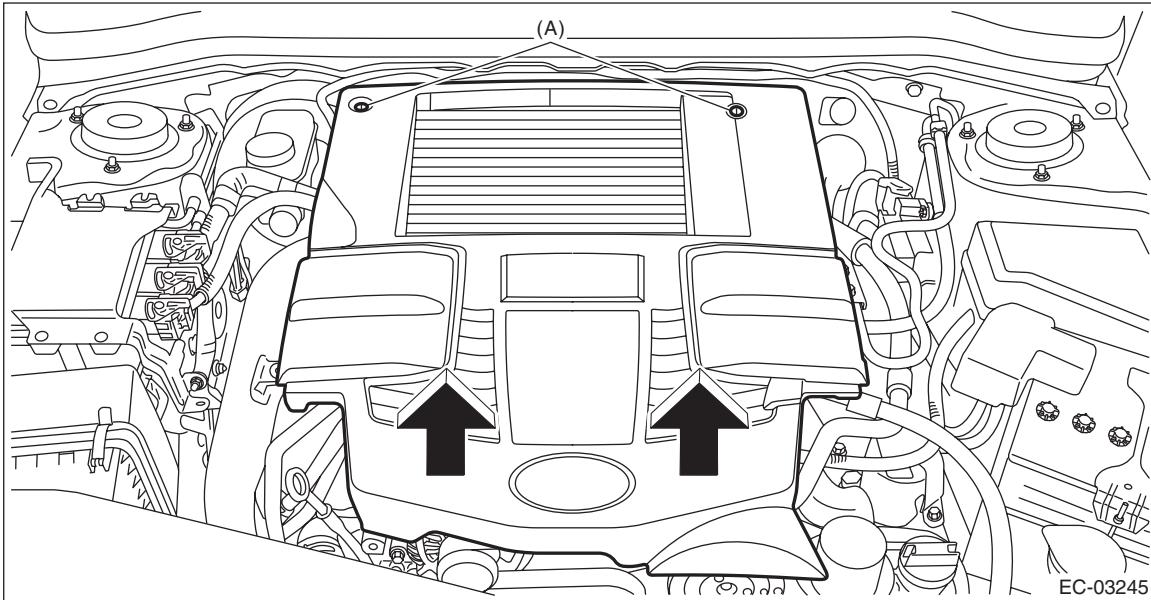


Knock Sensor

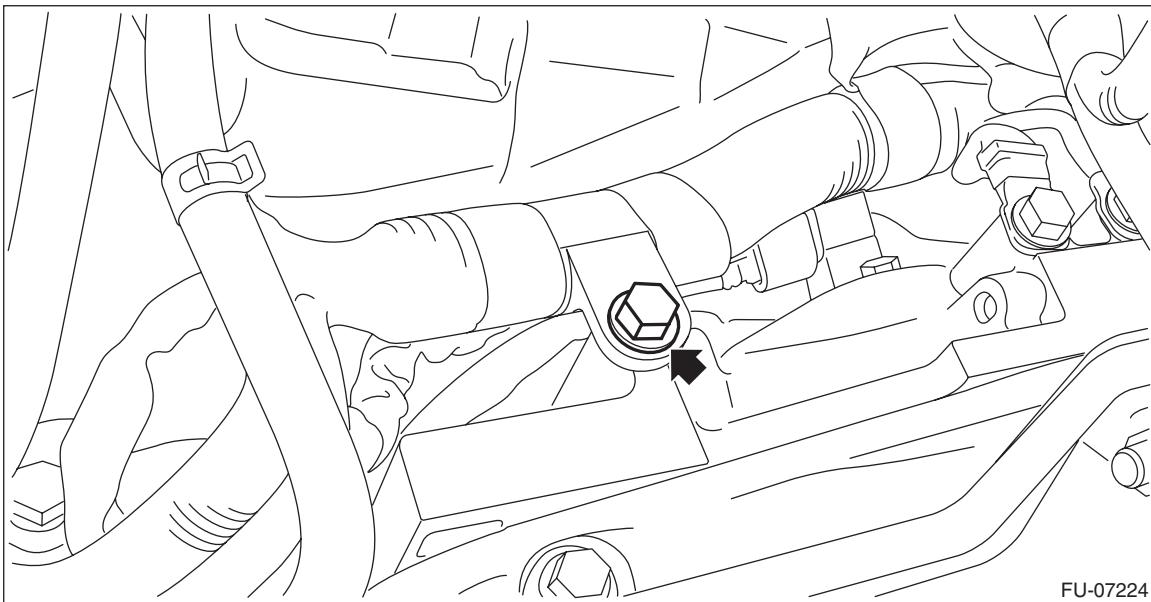
FUEL INJECTION (FUEL SYSTEMS)

2. LH SIDE

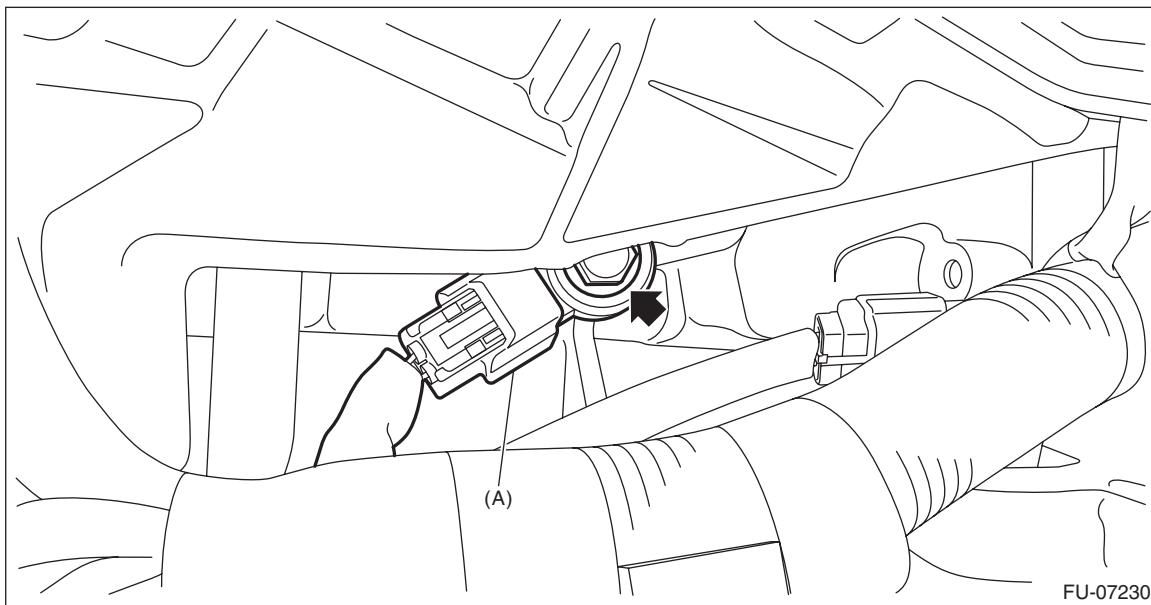
- 1) Remove the clip (A), lift the front of the collector cover in the direction of arrow, and then remove the collector cover.



- 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.



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



B: INSTALLATION

1. RH SIDE

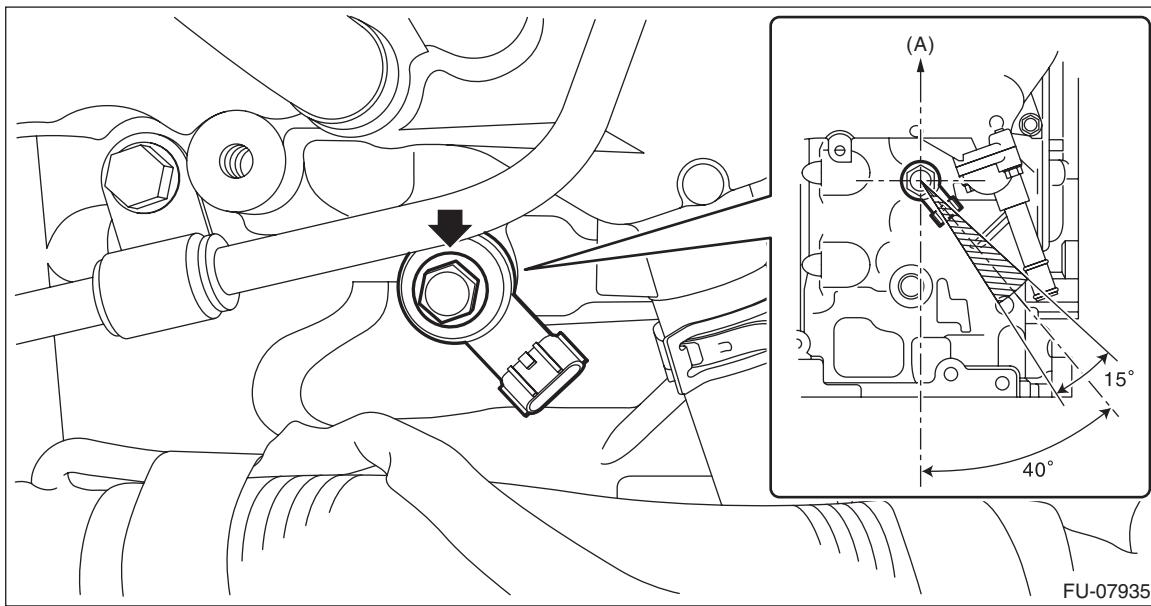
1) Install the knock sensor to the cylinder block.

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)

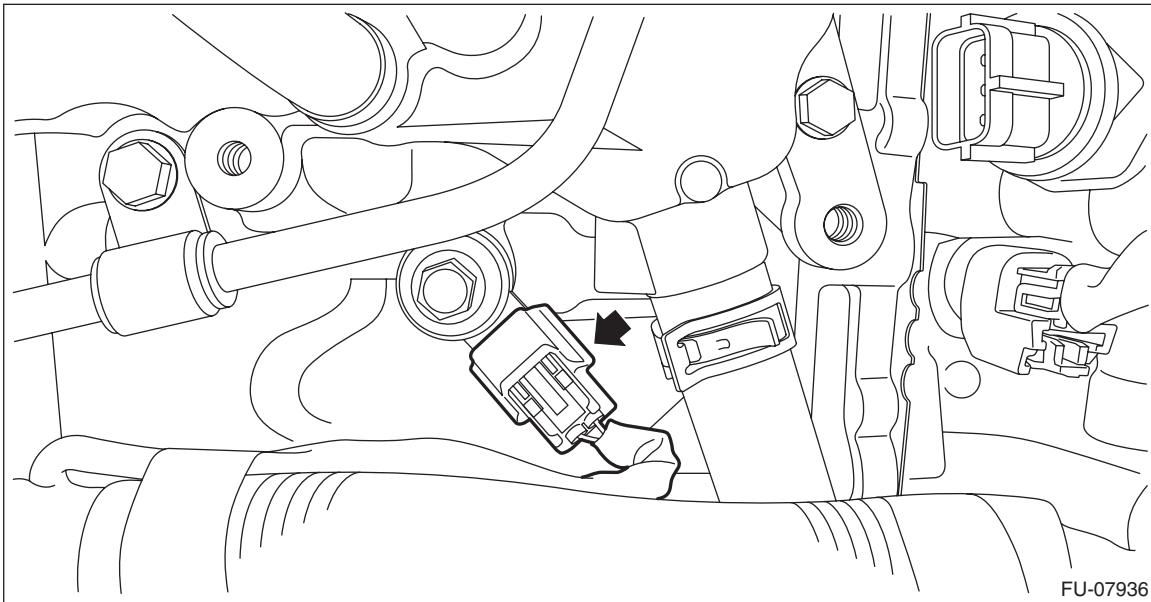


(A) Front of engine

Knock Sensor

FUEL INJECTION (FUEL SYSTEMS)

- 2) Connect the connector to the knock sensor.



- 3) Install the fuel pipe insulator No. 3. <Ref. to FU(H4DOTC)-51, FUEL PIPE INSULATOR NO. 3, INSTALLATION, Fuel Insulator.>
- 4) Install the intake manifold. <Ref. to FU(H4DOTC)-30, INSTALLATION, Intake Manifold.>
- 5) Connect the battery ground terminal.
- 6) Install the collector cover.

2. LH SIDE

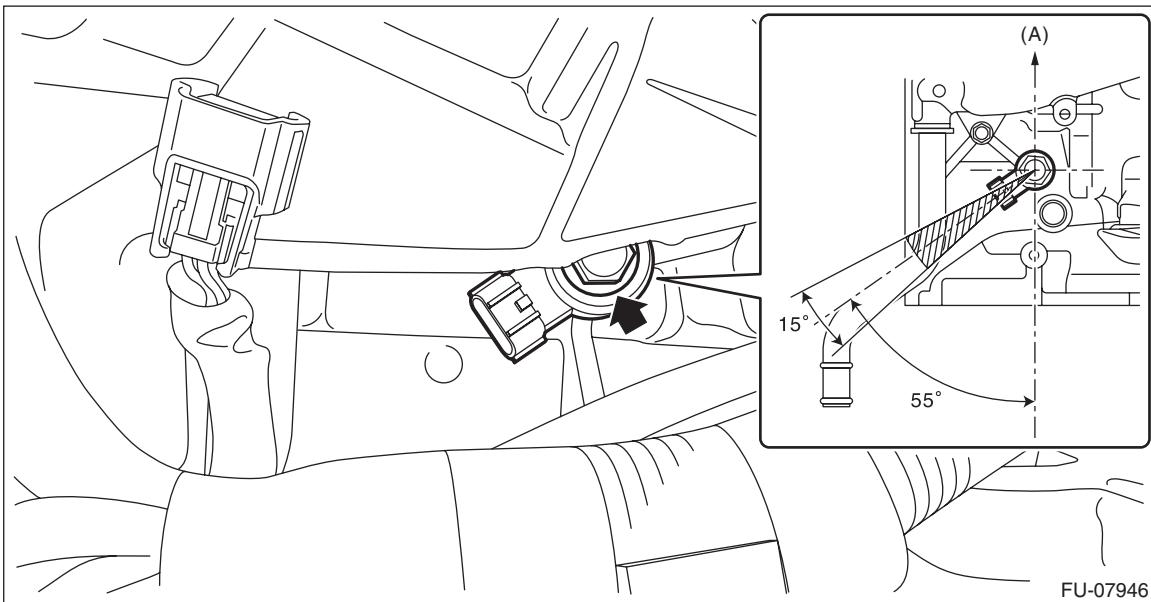
- 1) Install the knock sensor to the cylinder block.

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)

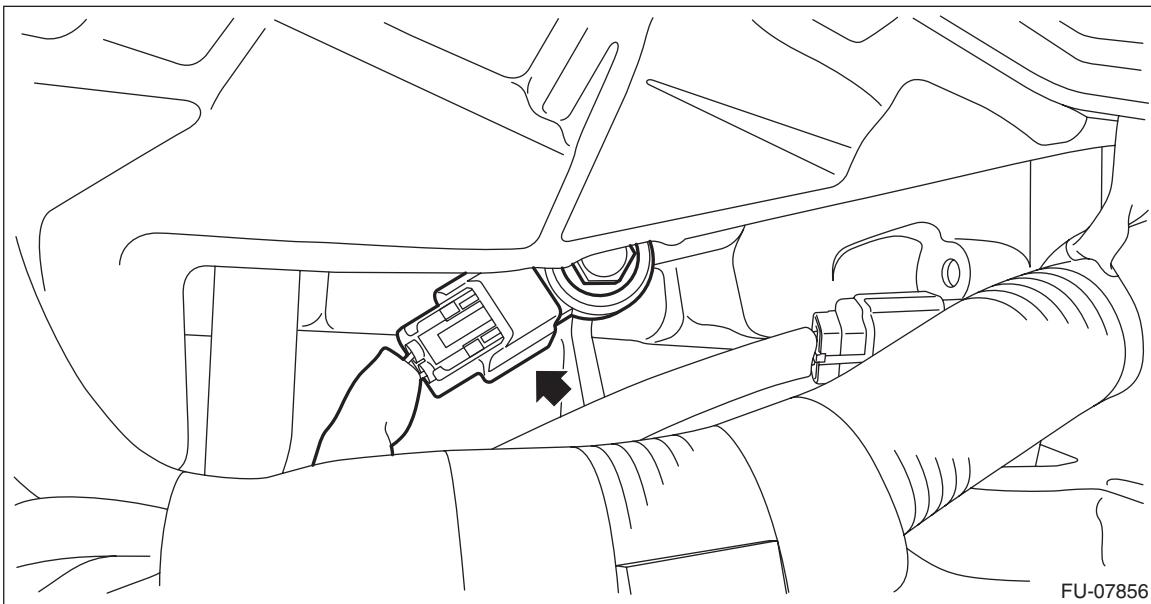


(A) Front of engine

Knock Sensor

FUEL INJECTION (FUEL SYSTEMS)

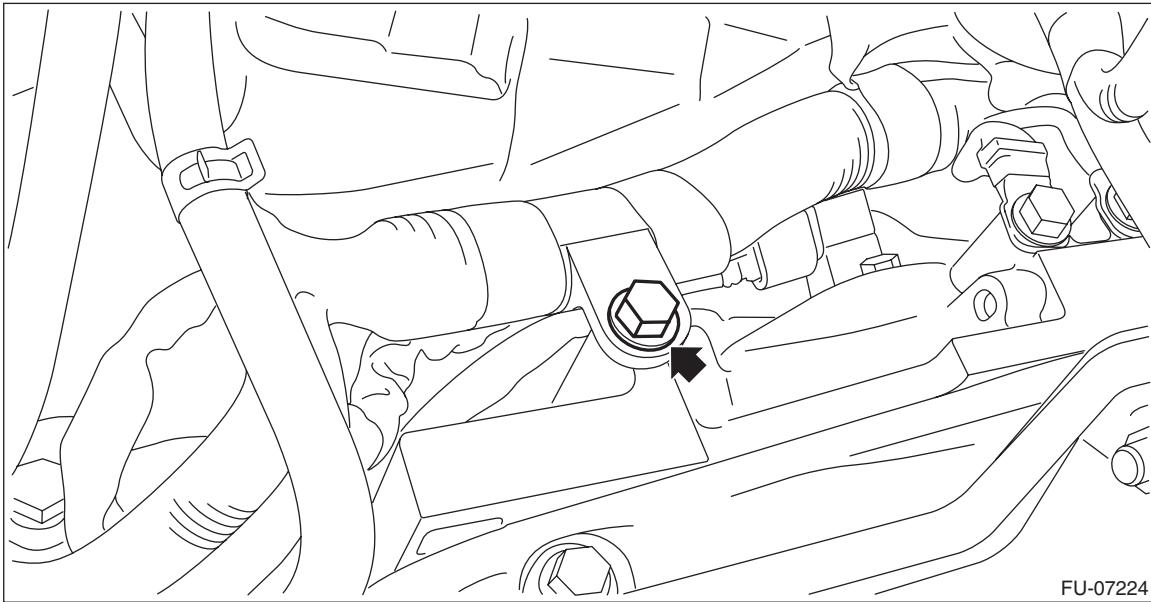
- 2) Connect the connector to the knock sensor.



- 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.

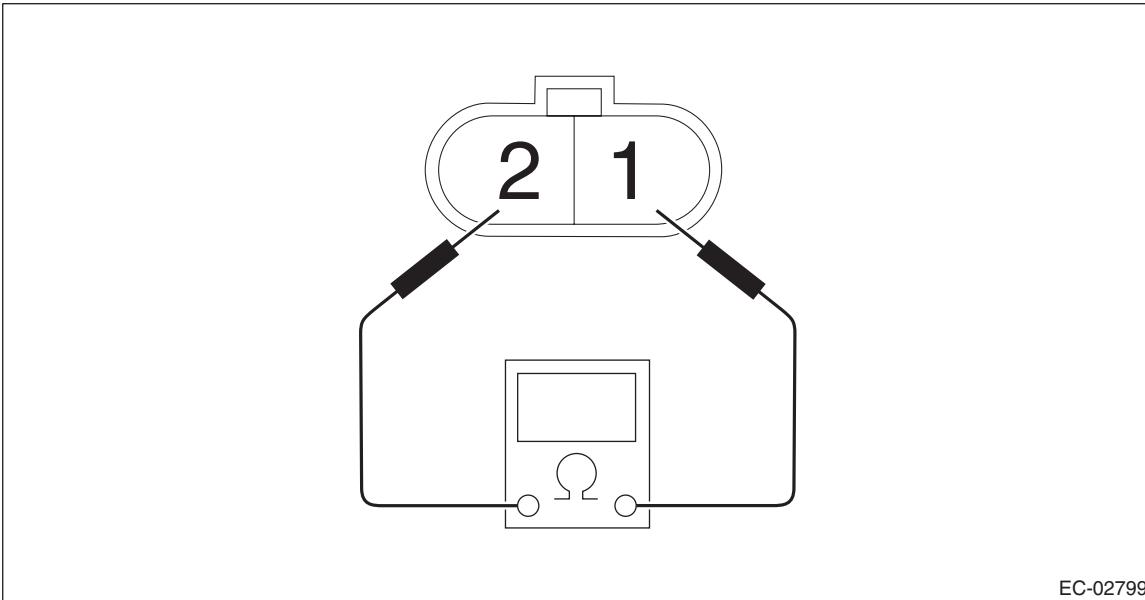
- 7) Install the collector cover.

Knock Sensor

FUEL INJECTION (FUEL SYSTEMS)

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	$560\pm28\text{ k}\Omega$