

Camshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

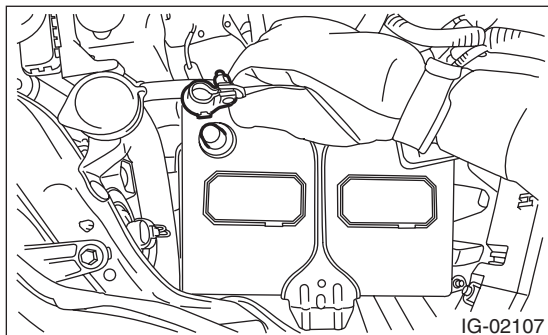
6. Camshaft Position Sensor

A: REMOVAL

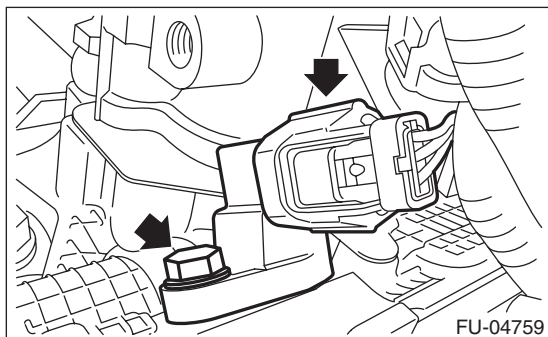
1. INTAKE SIDE

- Camshaft position sensor RH

1) Disconnect the ground cable from battery.

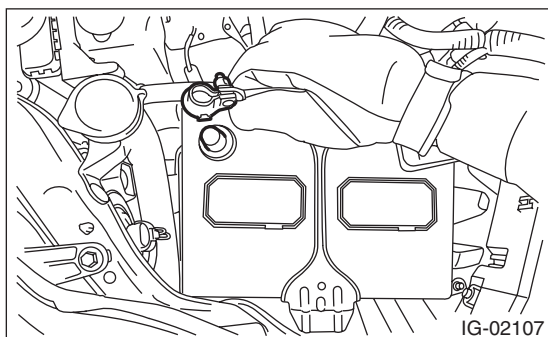


2) Disconnect the connector from the camshaft position sensor RH, and remove the camshaft position sensor RH.



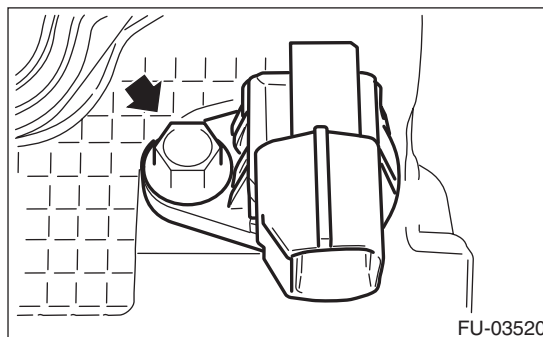
- Camshaft position sensor LH

1) Disconnect the ground cable from battery.



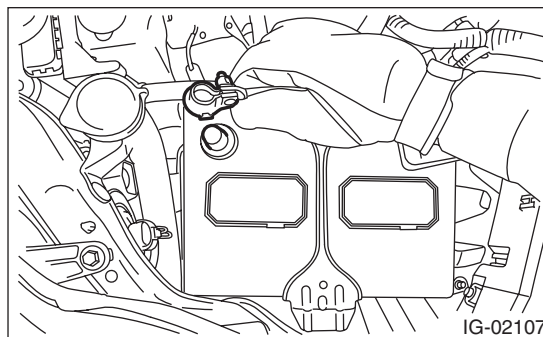
2) Remove the intake manifold. <Ref. to FU(H4DOTC)-17, REMOVAL, Intake Manifold.>

3) Remove the camshaft position sensor LH.



2. EXHAUST SIDE

1) Disconnect the ground cable from battery.

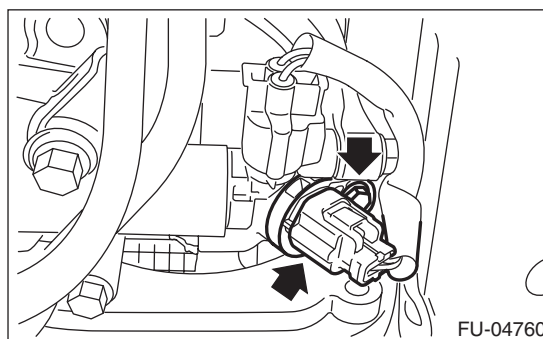


2) Lift up the vehicle.

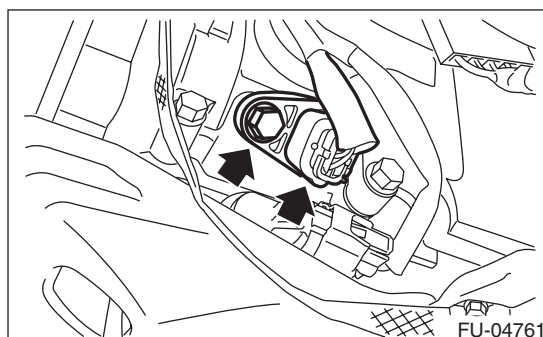
3) Remove the under cover. <Ref. to EI-35, REMOVAL, Front Under Cover.>

4) Disconnect the connector from the camshaft position sensor, and remove the camshaft position sensor.

- RH side



- LH side



B: INSTALLATION

1. INTAKE SIDE

Install in the reverse order of removal.

Tightening torque:

6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

2. EXHAUST SIDE

Install in the reverse order of removal.

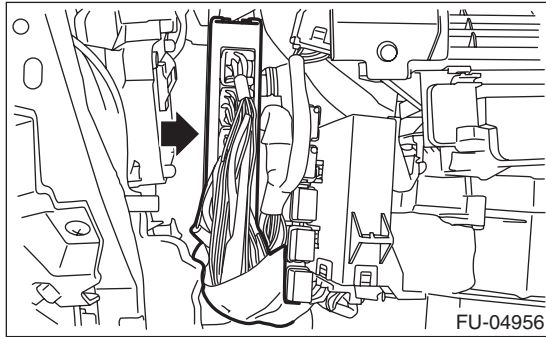
Tightening torque:

6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

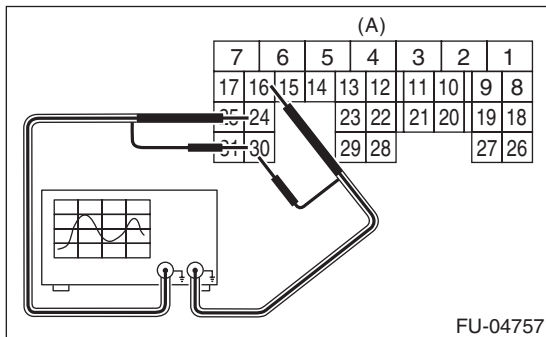
C: INSPECTION

1. CAMSHAFT 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.

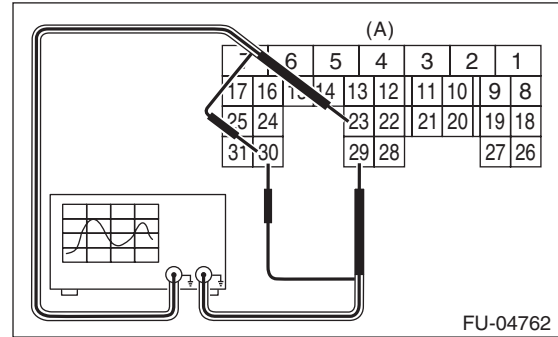


- Intake camshaft position sensor



(A) To ECM connector

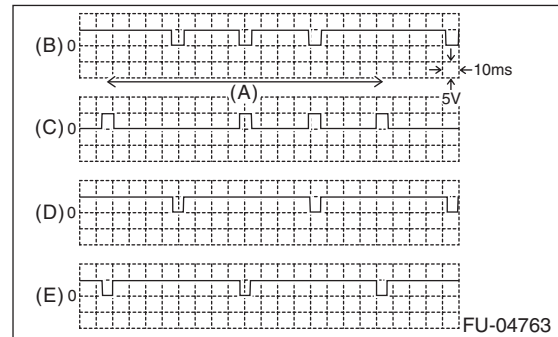
- Exhaust camshaft position sensor



(A) To ECM connector

Camshaft position sensor		Terminal No.	Probe
Intake	RH	24	+
	LH	16	+
Exhaust	RH	23	+
	LH	29	+
RH and LH		30	-

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



- (A) One camshaft rotation
- (B) Intake camshaft position sensor RH
- (C) Intake camshaft position sensor LH
- (D) Exhaust camshaft position sensor RH
- (E) Exhaust camshaft position sensor LH

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

2. OTHER INSPECTIONS

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