

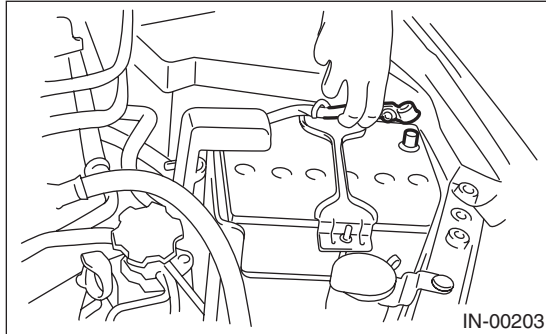
6. Camshaft Position Sensor

A: REMOVAL

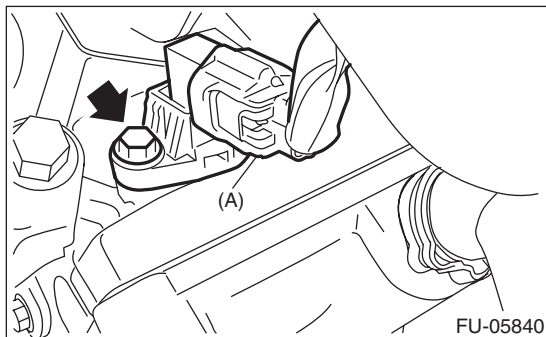
1. INTAKE SIDE

• Camshaft position sensor RH

1) Disconnect the ground cable from battery.

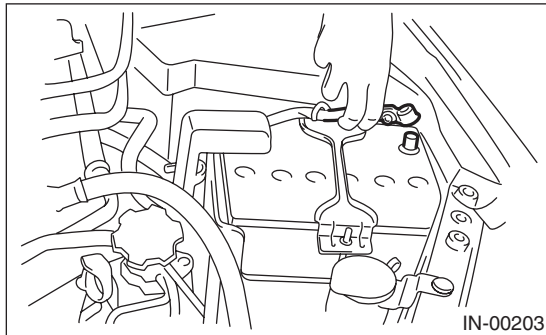


2) Disconnect the connector (A) from the camshaft position sensor RH, and remove the camshaft position sensor RH from the rear side of the cylinder head.



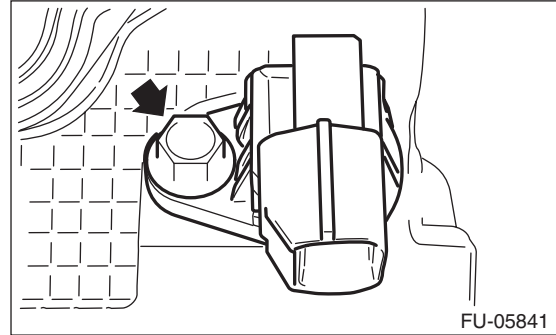
• Camshaft position sensor LH

1) Disconnect the ground cable from battery.



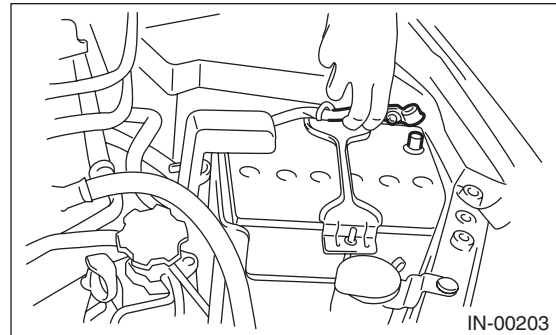
2) Remove the intake manifold. <Ref. to FU(STI)-17, REMOVAL, Intake Manifold.>

3) Remove the camshaft position sensor LH.



2. EXHAUST SIDE

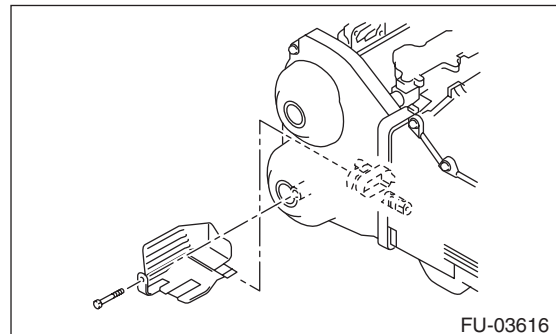
1) Disconnect the ground cable from battery.



2) Lift up the vehicle.

3) Remove the under cover. <Ref. to EI-28, REMOVAL, Front Under Cover.>

4) Remove the engine harness cover. (right side only.)

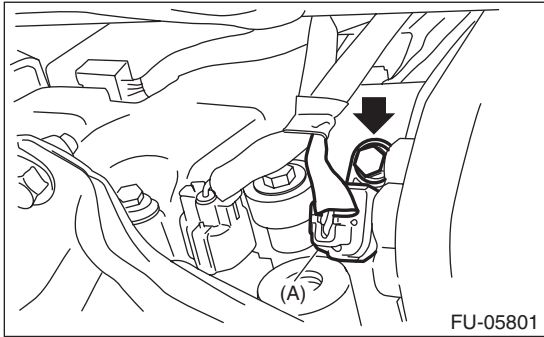


Camshaft Position Sensor

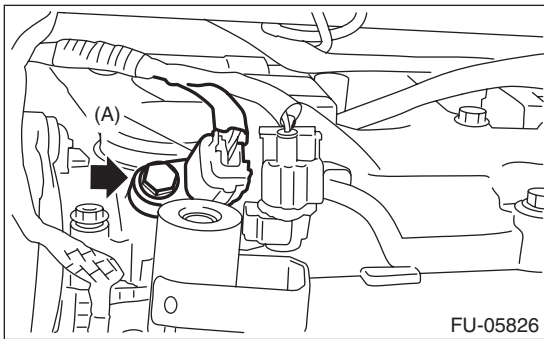
FUEL INJECTION (FUEL SYSTEMS)

5) Disconnect connector (A) from the camshaft position sensor, and remove the camshaft position sensor from under the cylinder head.

- 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)

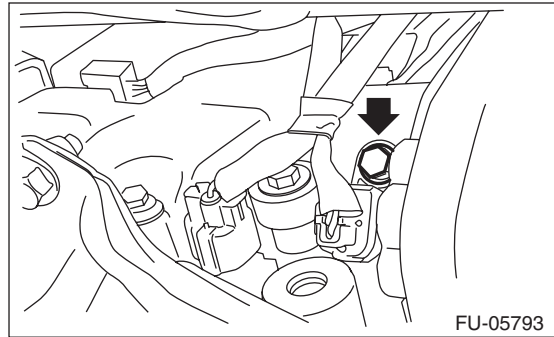
2. EXHAUST SIDE

Install in the reverse order of removal.

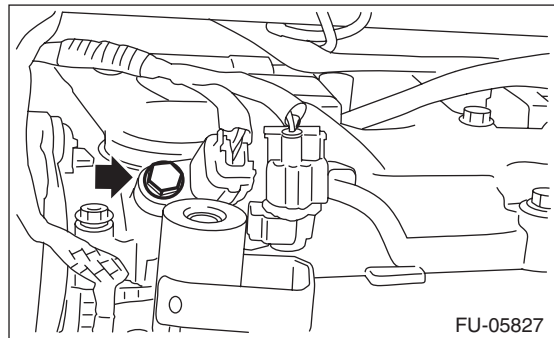
Tightening torque:

6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

- RH side

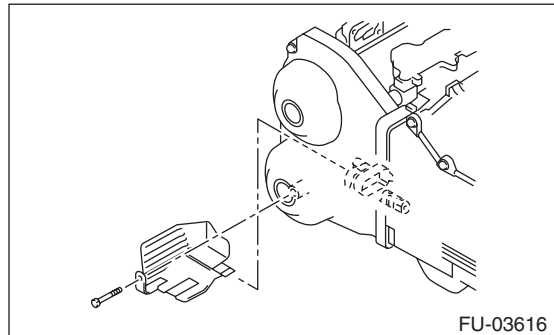


- LH side



Tightening torque:

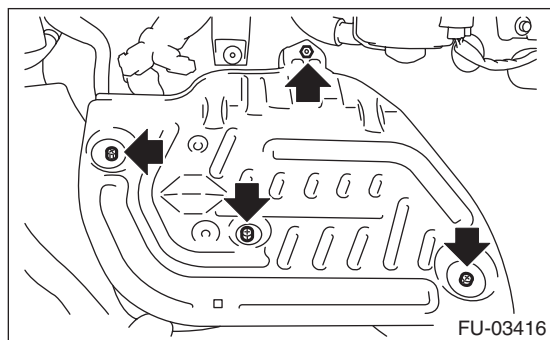
5 N·m (0.5 kgf-m, 3.7 ft-lb)



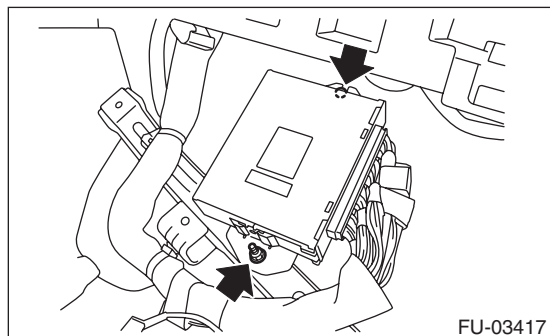
C: INSPECTION

1. CAMSHAFT POSITION SENSOR (METHOD WITH OSCILLOSCOPE)

- 1) Prepare an oscilloscope.
- 2) Remove the lower inner trim of passenger's side. <Ref. to EI-57, REMOVAL, Lower Inner Trim.>
- 3) Turn over the floor mat of passenger's seat.
- 4) Remove the protect cover.

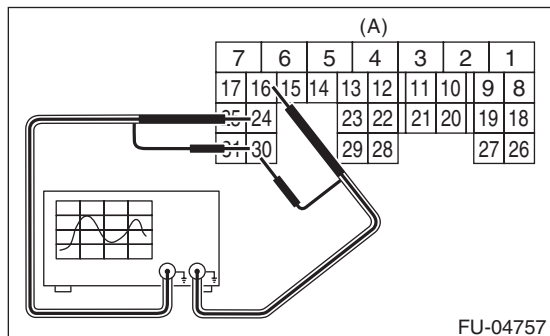


- 5) Remove the nuts and bolts which hold the ECM to the bracket.



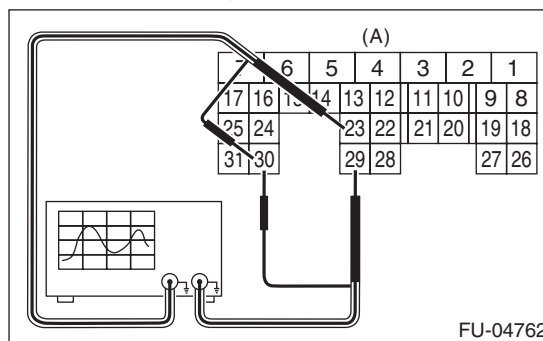
- 6) Connect the probe to ECM connector.

- Intake camshaft position sensor



(A) To ECM connector

- Exhaust camshaft position sensor

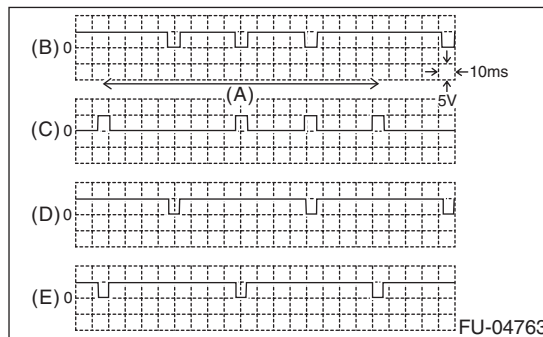


(A) To ECM connector

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

- 7) Start the engine and let it idle.

- 8) Check 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

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

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

2. OTHER INSPECTIONS

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