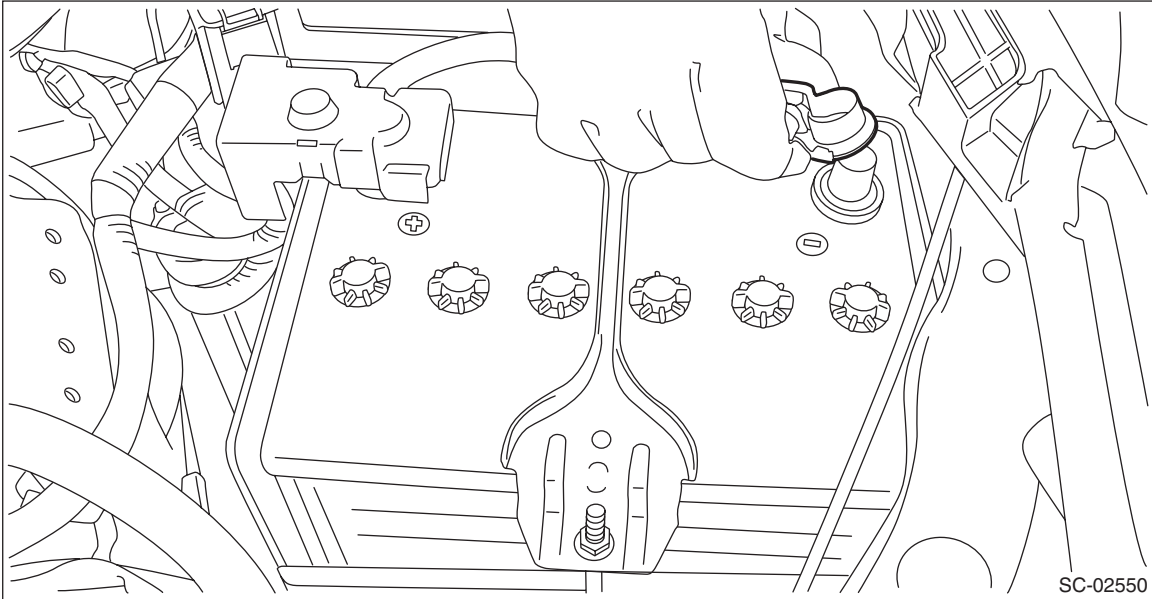


9. Camshaft Position Sensor

A: REMOVAL

1. INTAKE SIDE

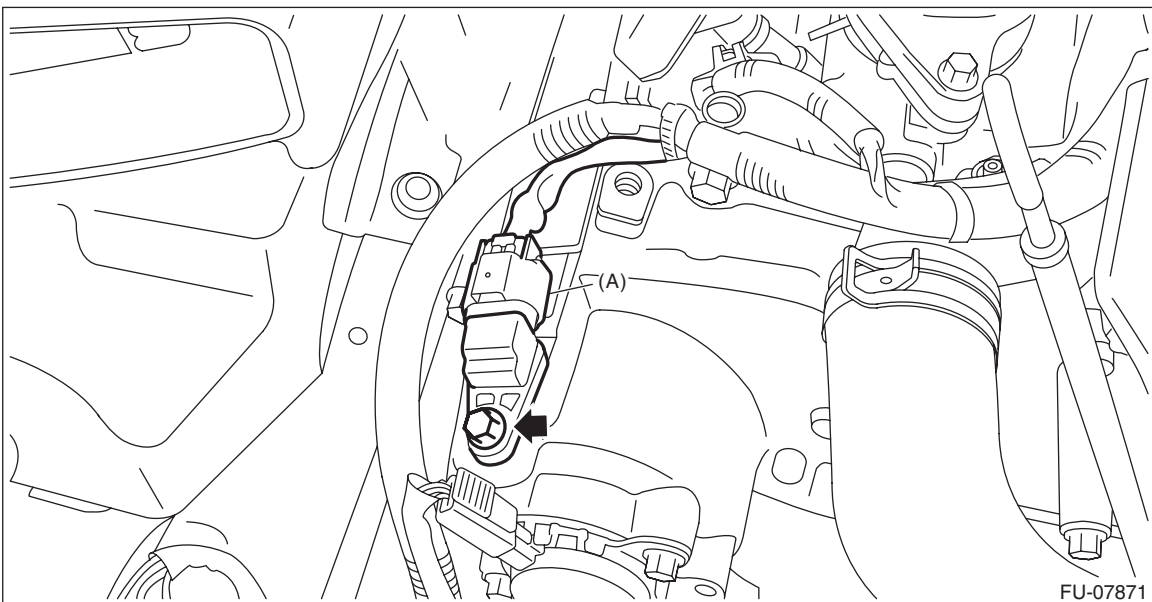
1) Disconnect the ground cable from battery.



2) Remove the air intake duct. (RH side only) <Ref. to IN(H4DO(w/o HEV))-13, REMOVAL, Air Intake Duct.>

3) Disconnect the connector (A) from the camshaft position sensor, and remove the camshaft position sensor from the chain cover.

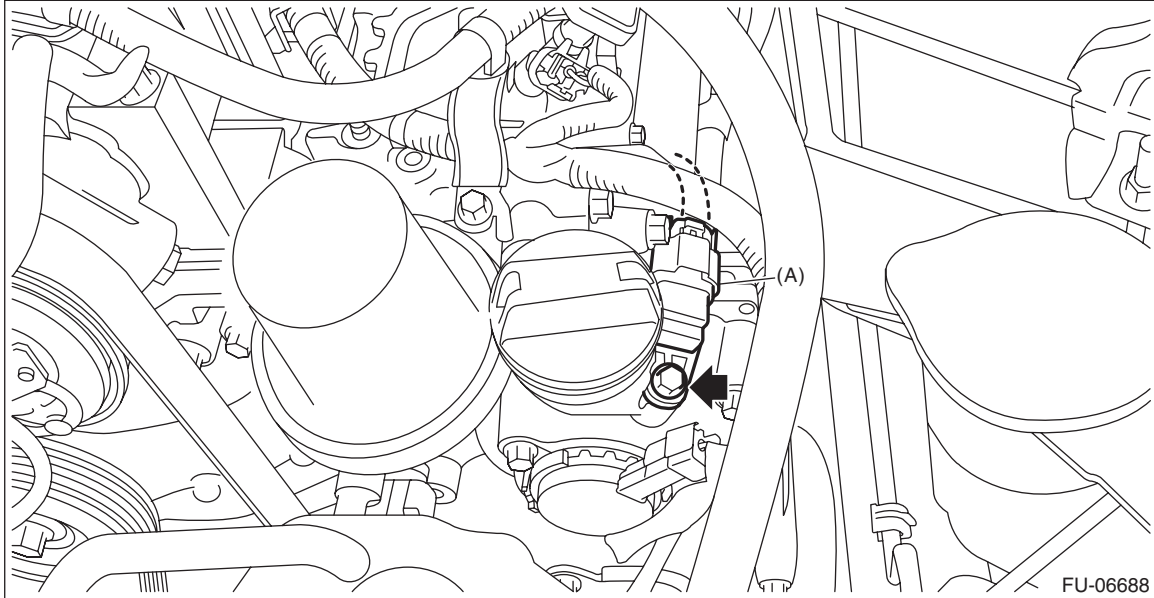
- RH side



Camshaft Position Sensor

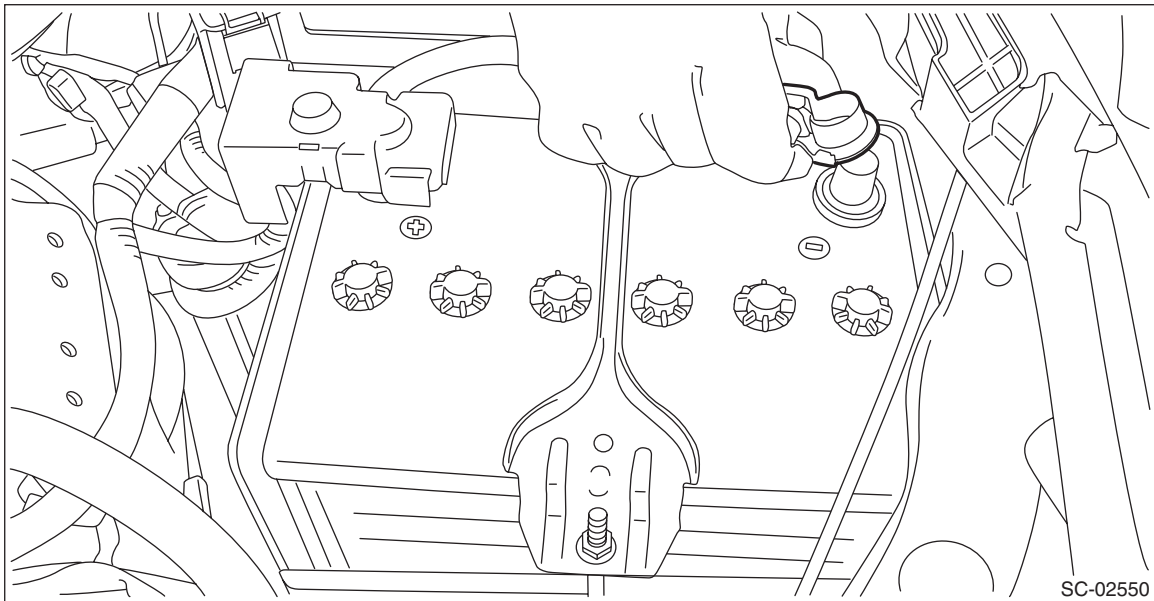
FUEL INJECTION (FUEL SYSTEMS)

- LH side



2. EXHAUST SIDE

- 1) Disconnect the ground cable from battery.



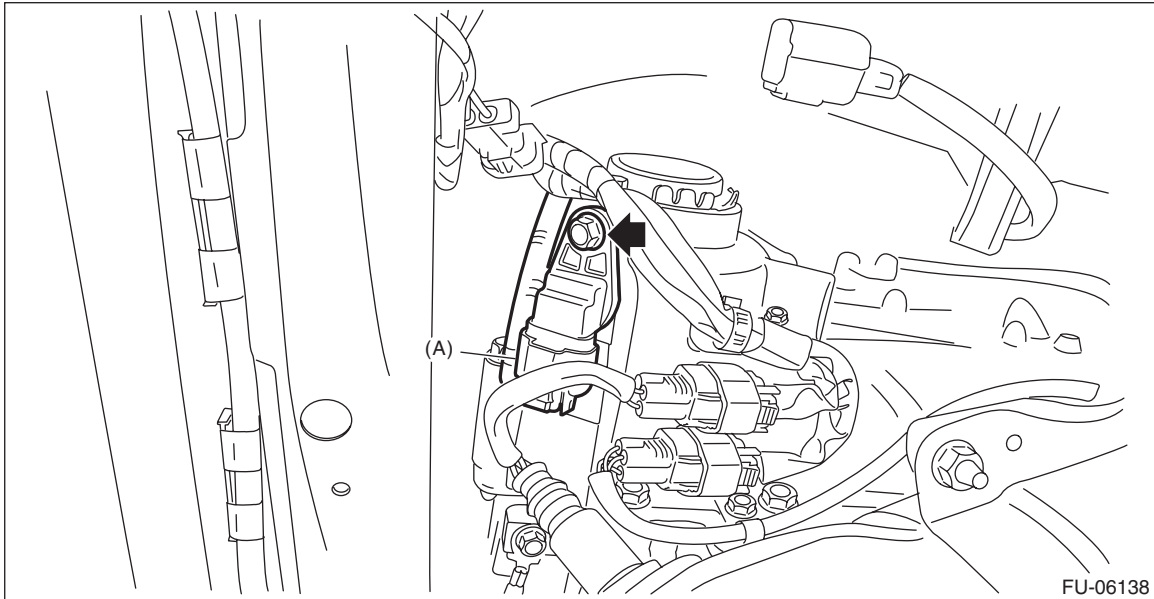
- 2) Remove the under cover. <Ref. to EI-32, REMOVAL, Front Under Cover.>

Camshaft Position Sensor

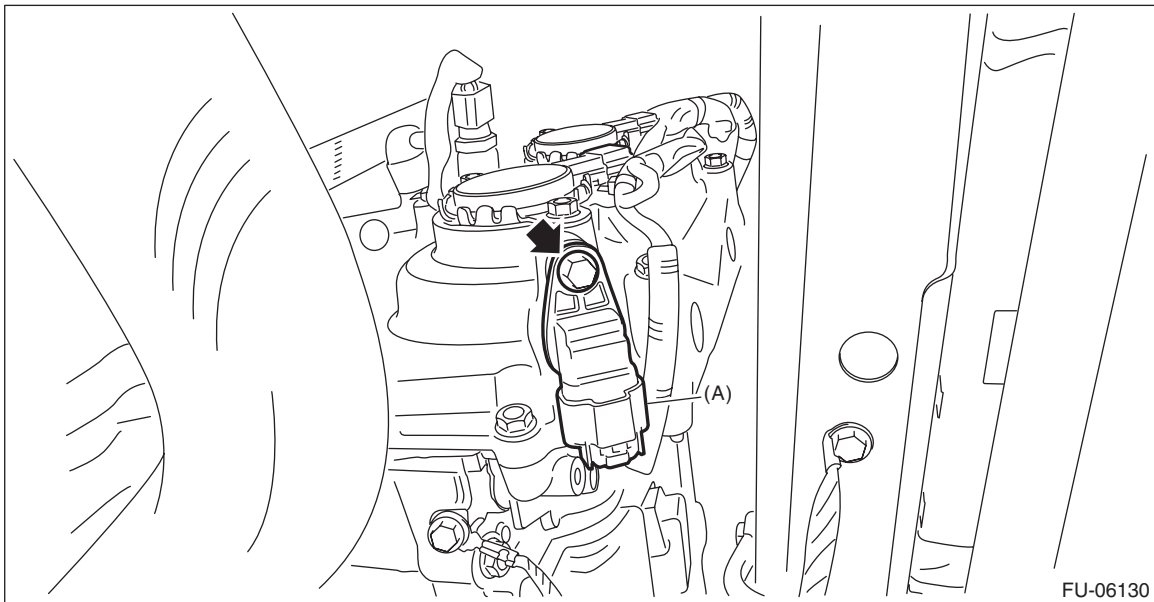
FUEL INJECTION (FUEL SYSTEMS)

3) Disconnect the connector (A) from the camshaft position sensor, and remove the camshaft position sensor from the chain cover.

- RH side



- LH side



B: INSTALLATION

Install in the reverse order of removal.

NOTE:

- Use new O-rings.
- Apply engine oil to O-ring.

Tightening torque:

6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

Camshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

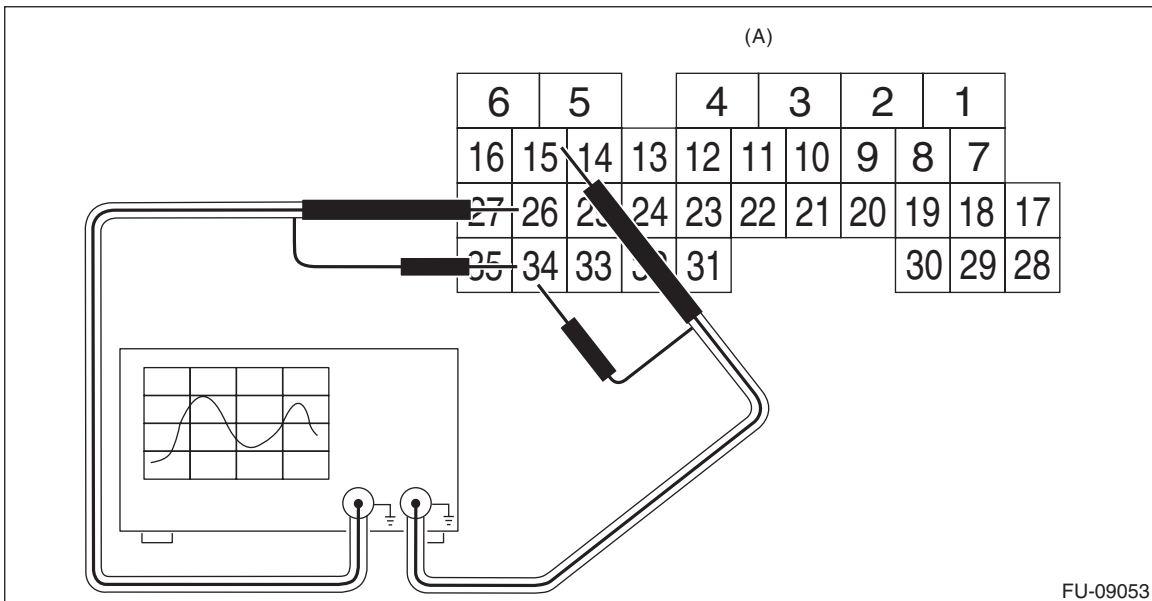
C: INSPECTION

1. CAMSHAFT POSITION SENSOR (METHOD WITH OSCILLOSCOPE)

- 1) Prepare an oscilloscope.
- 2) Remove the glove box. <Ref. to EI-78, REMOVAL, Glove Box.>
- 3) Connect the probe to ECM connector.



- Intake camshaft position sensor

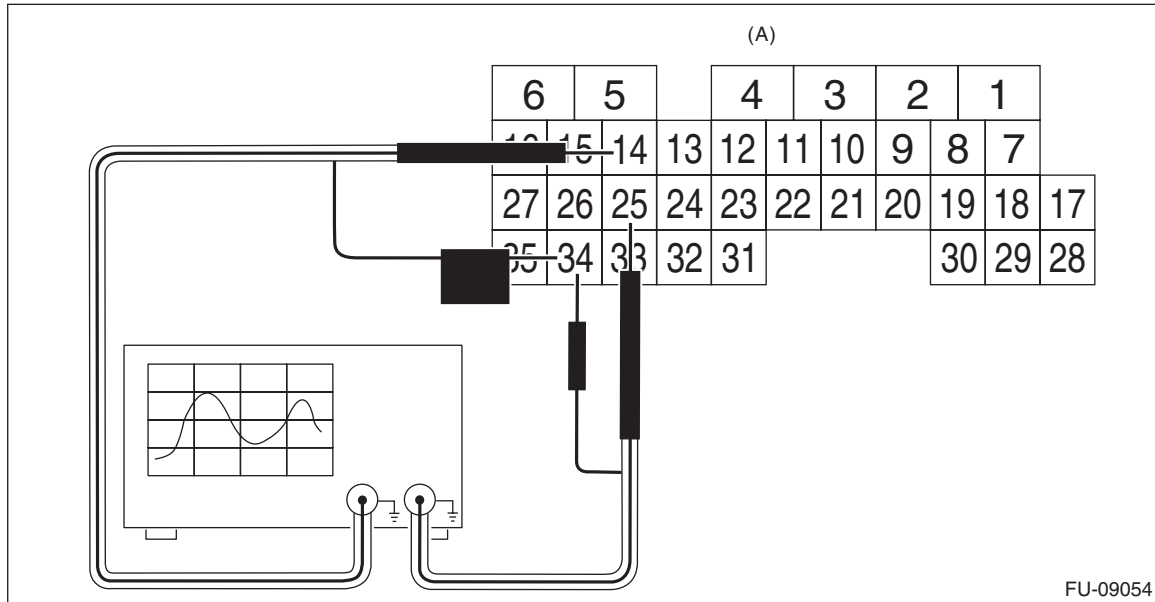


(A) To ECM connector

Camshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

- Exhaust camshaft position sensor



(A) To ECM connector

Camshaft position sensor		Terminal No.	Probe
Intake	RH	26	+
	LH	15	+
Exhaust	RH	14	+
	LH	25	+
RH and LH		34	-

- Start the engine and let it idle.
- Check the waveforms and voltage.

NOTE:

For waveform and voltage, refer to "Engine Control Module (ECM) I/O Signal". <Ref. to EN(H4DO w/o HEV)(diag)-19, ELECTRICAL SPECIFICATION, Engine Control Module (ECM) I/O Signal.>

- 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.