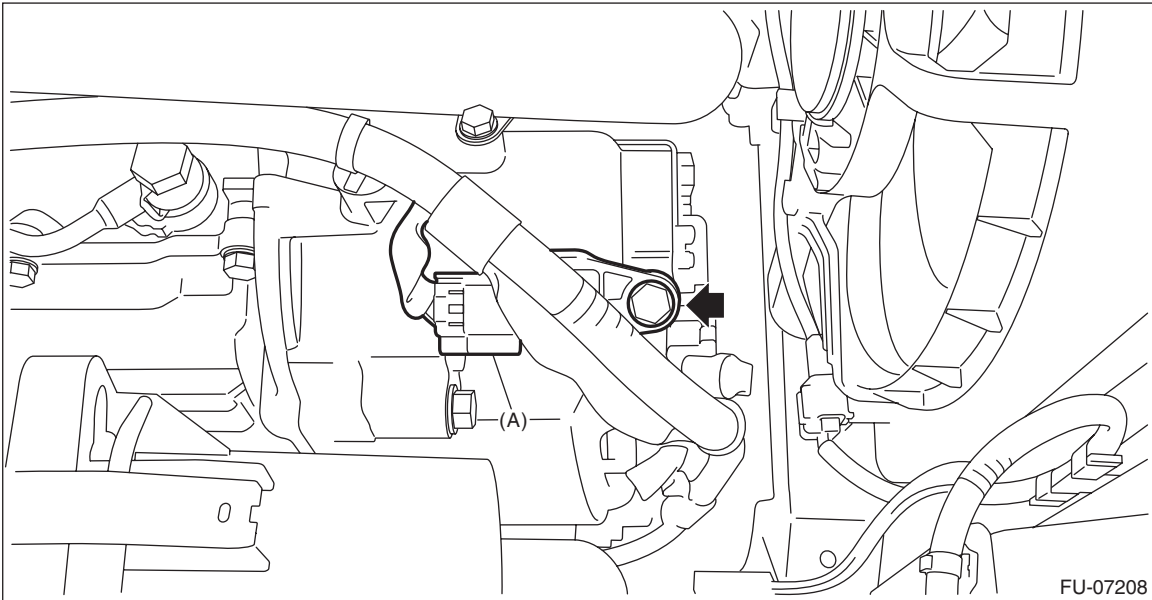


15. Camshaft Position Sensor

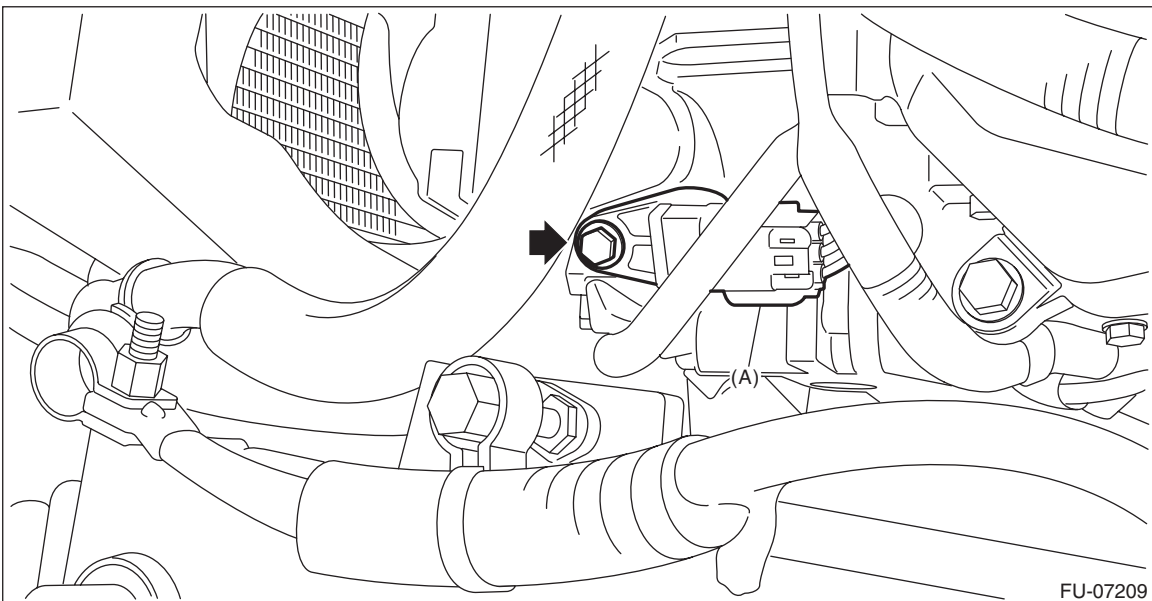
A: REMOVAL

1. INTAKE SIDE

- 1) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
 - 2) Remove the air intake duct. (RH side only) <Ref. to IN(w/o STI)-22, 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



- LH side



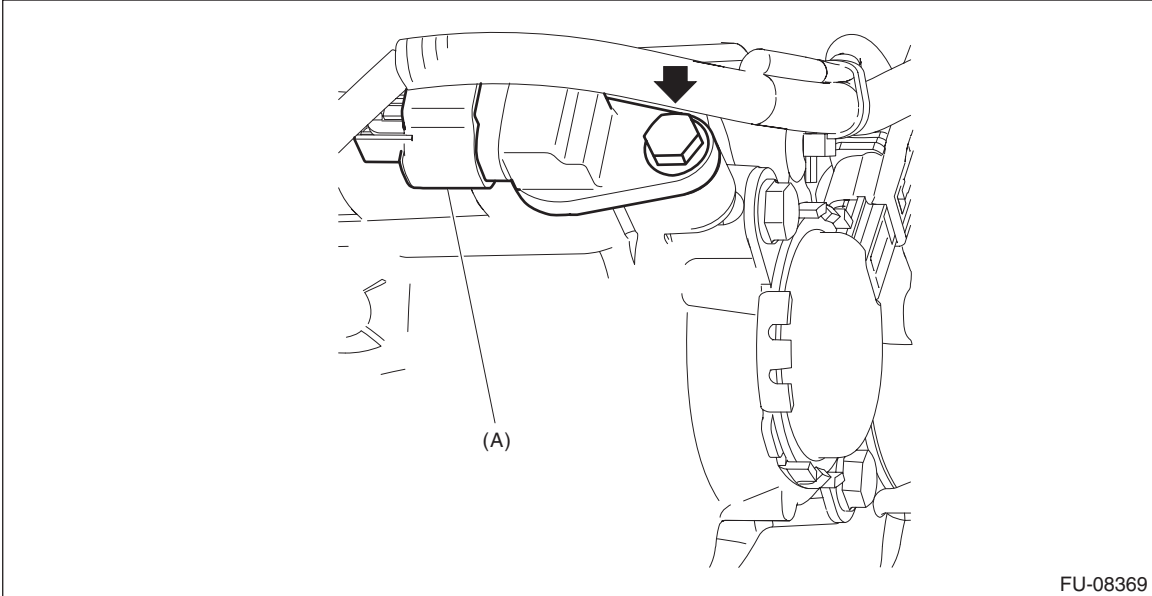
Camshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

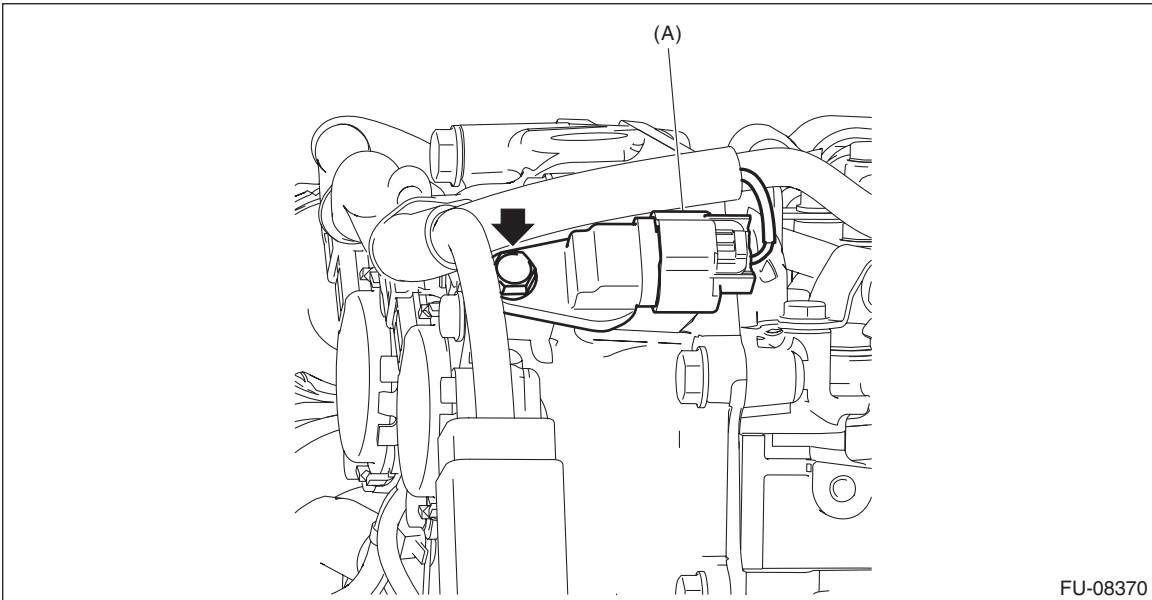
2. EXHAUST SIDE

- 1) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 2) Remove the under cover. <Ref. to EI-21, REMOVAL, Front Under Cover.>
- 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.

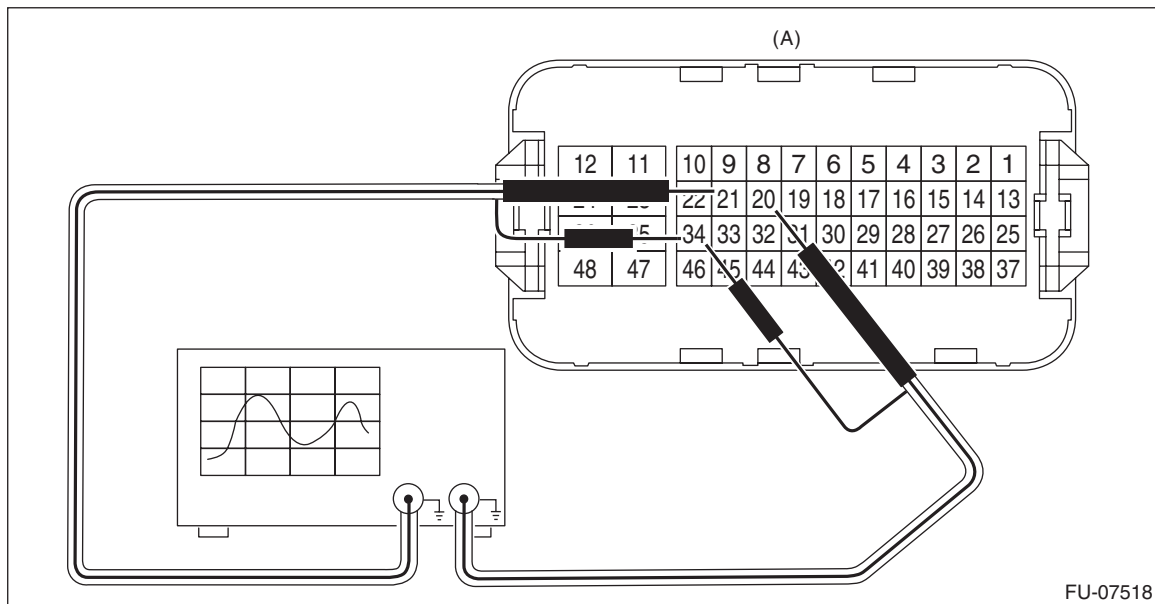
Tightening torque:

6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

C: INSPECTION

1. CAMSHAFT POSITION SENSOR (METHOD WITH OSCILLOSCOPE)

- 1) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
 - 2) Prepare an oscilloscope.
 - 3) Remove the engine control module (ECM). <Ref. to FU(w/o STI)-132, REMOVAL, Engine Control Module (ECM).>
 - 4) Install the ST between the ECM and bulkhead harness and the engine harness. <Ref. to EN(w/o STI)(diag)-6, CAUTION, General Description.>
ST 18460AA030 CHECK BOARD
 - 5) Connect the ground terminal to battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
 - 6) Connect the probe to ST.
- Intake camshaft position sensor

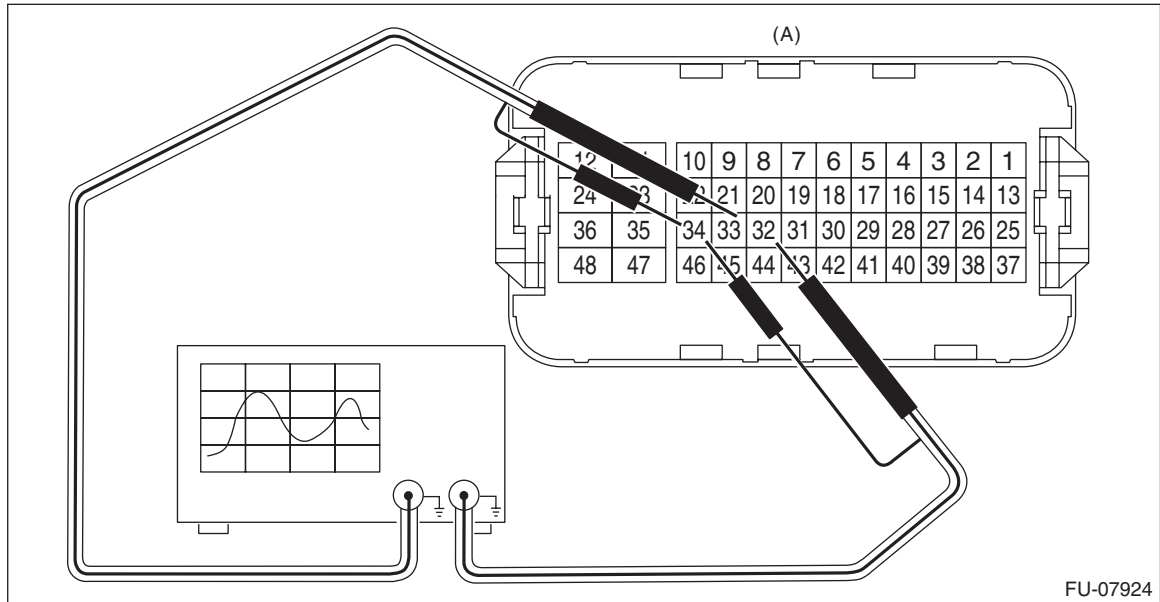


- (A) To the check board connector
(ECM connector)

Camshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

- Exhaust camshaft position sensor



(A) To the check board connector
(ECM connector)

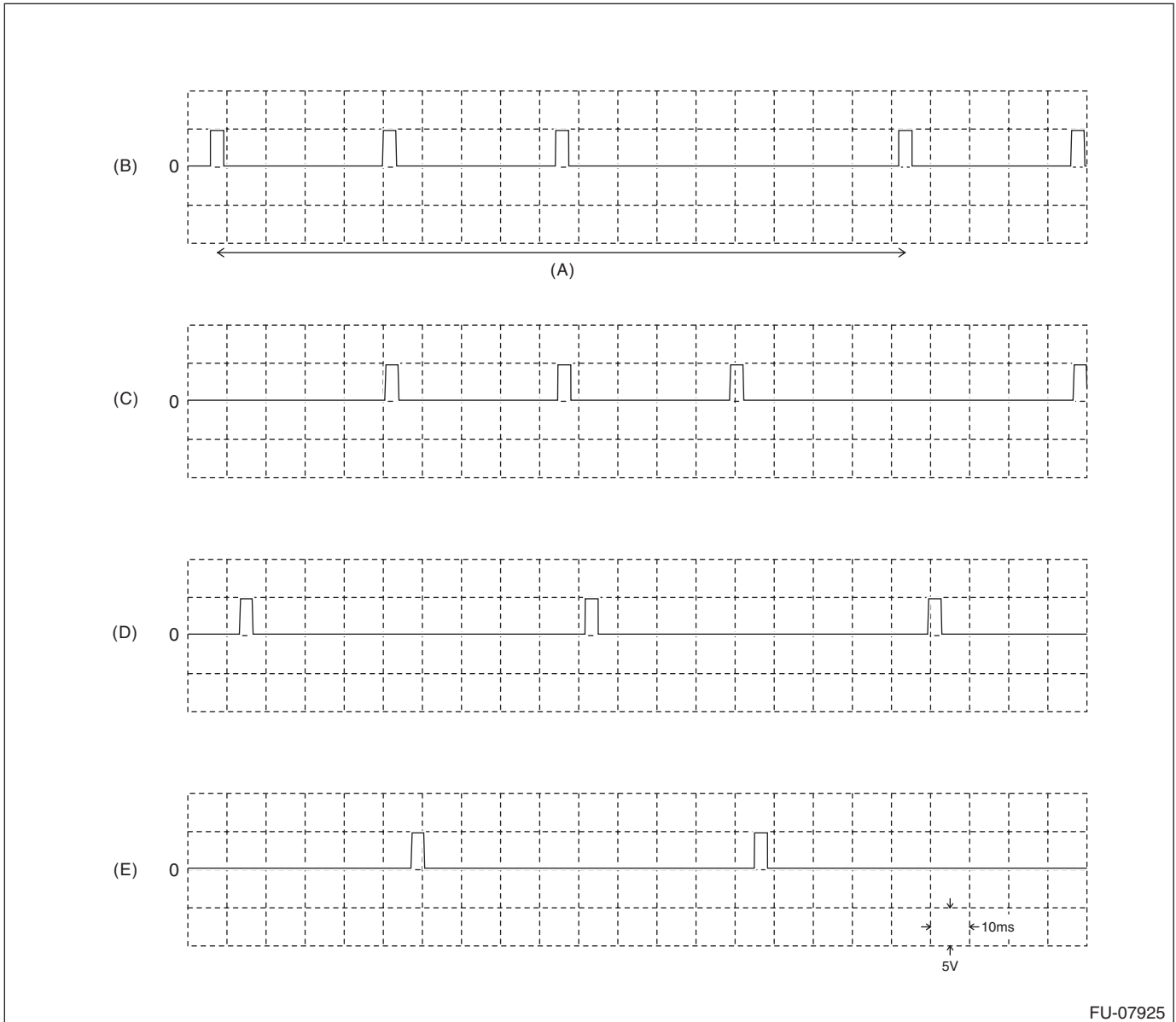
Camshaft position sensor		Terminal No.	Probe
Intake	RH	20	+
	LH	21	+
Exhaust	RH	32	+
	LH	33	+
RH and LH		34	-

7) Start the engine and let it idle.

Camshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

8) Check the pattern is the same as the waveform and voltage shown below.



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

9) 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.