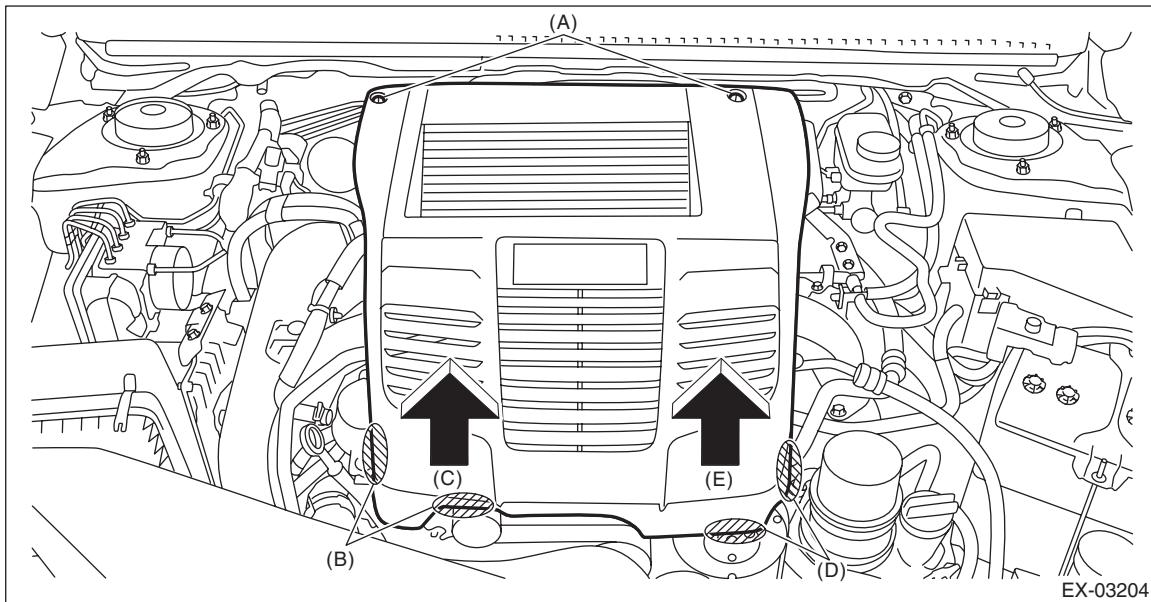


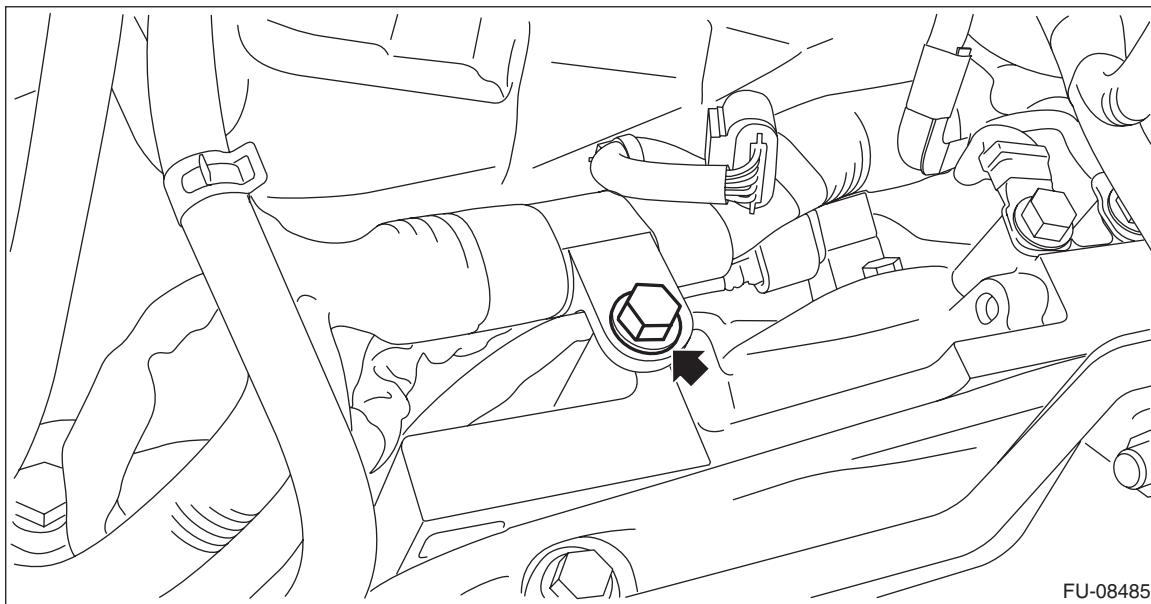
13.Crankshaft Position Sensor

A: REMOVAL

- 1) Remove the collector cover.
 - (1) Remove the clips (A).
 - (2) Hold the shaded area (B) by hand and carefully pull the RH side (C) upward.
 - (3) Hold the shaded area (D) by hand and carefully pull the LH side (E) upward.



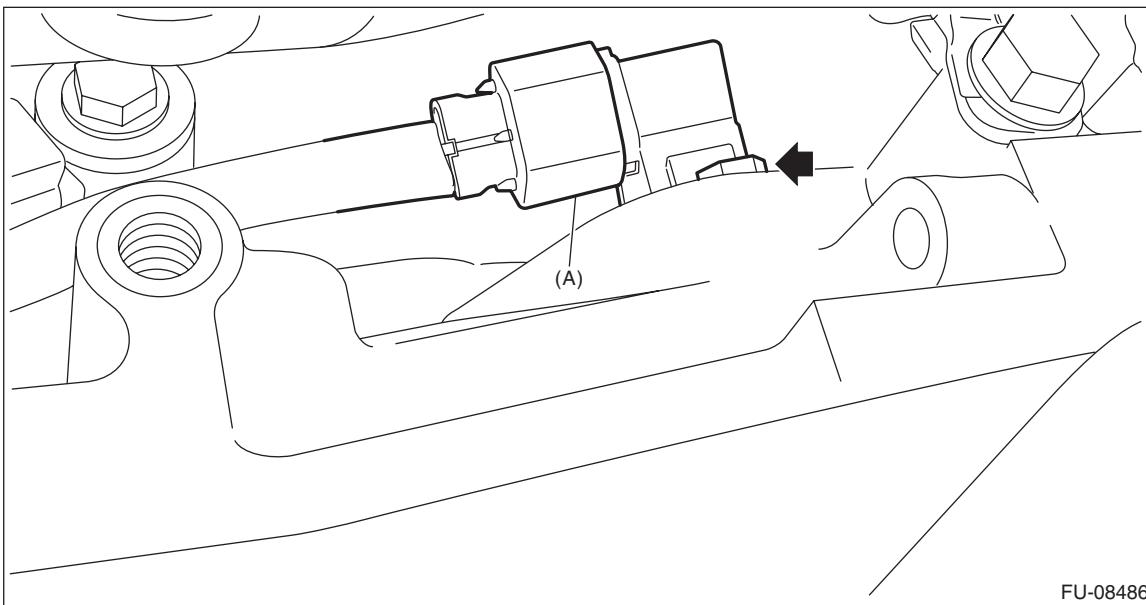
- 2) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 3) Remove the intercooler. <Ref. to IN(w/o STI)-38, REMOVAL, Intercooler.>
- 4) Remove the throttle body. <Ref. to FU(w/o STI)-15, REMOVAL, Throttle Body.>
- 5) Remove the bolts securing the engine harness.



Crankshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

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

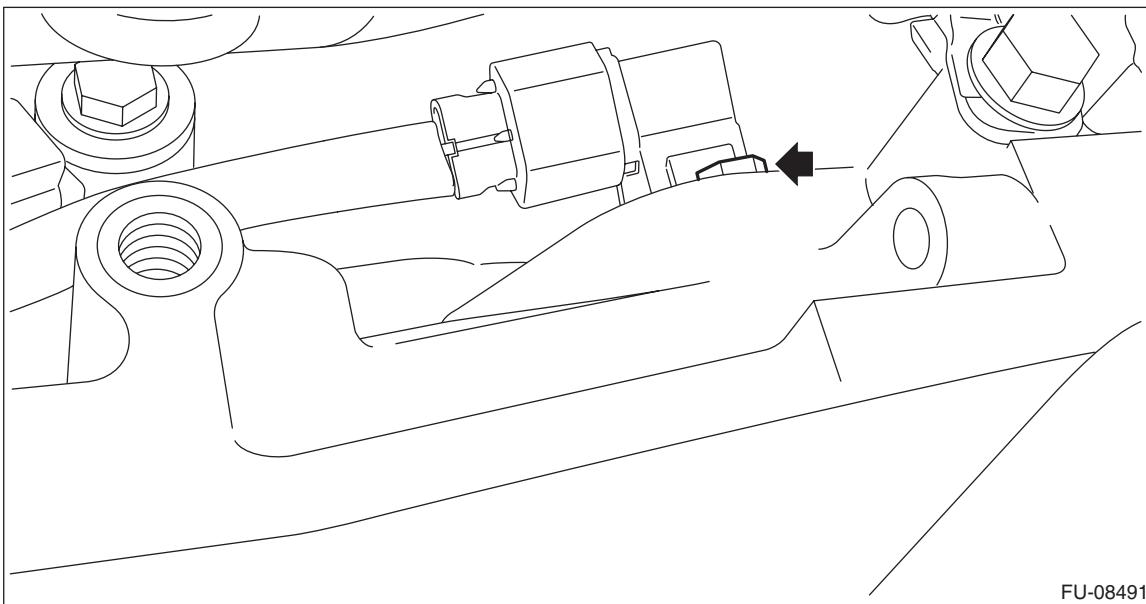


B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

6.4 N·m (0.7 kgf·m, 4.7 ft-lb)

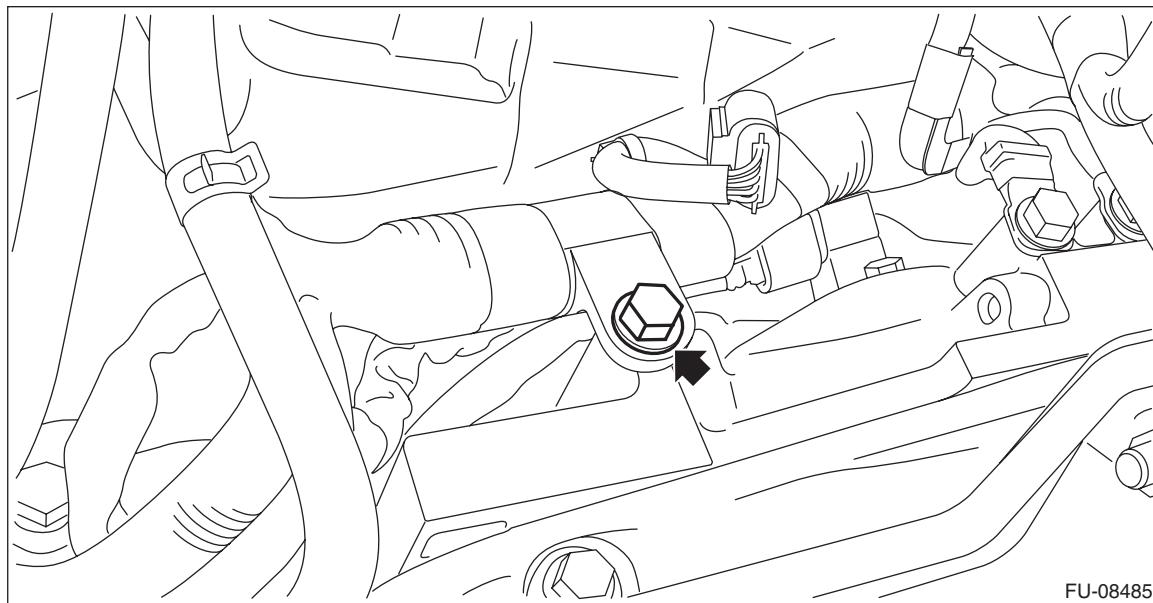


Crankshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

Tightening torque:

19 N·m (1.9 kgf·m, 14.0 ft-lb)



C: INSPECTION

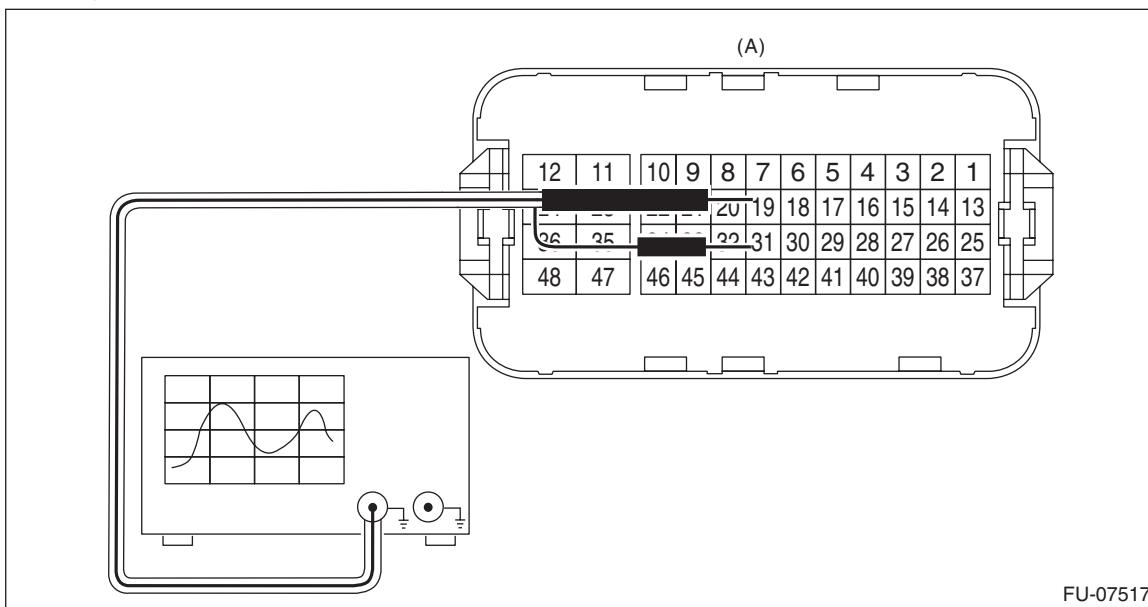
1. CRANKSHAFT POSITION SENSOR (METHOD WITH OSCILLOSCOPE)

- 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.>

Crankshaft Position Sensor

FUEL INJECTION (FUEL SYSTEMS)

6) Connect the probe to ST.

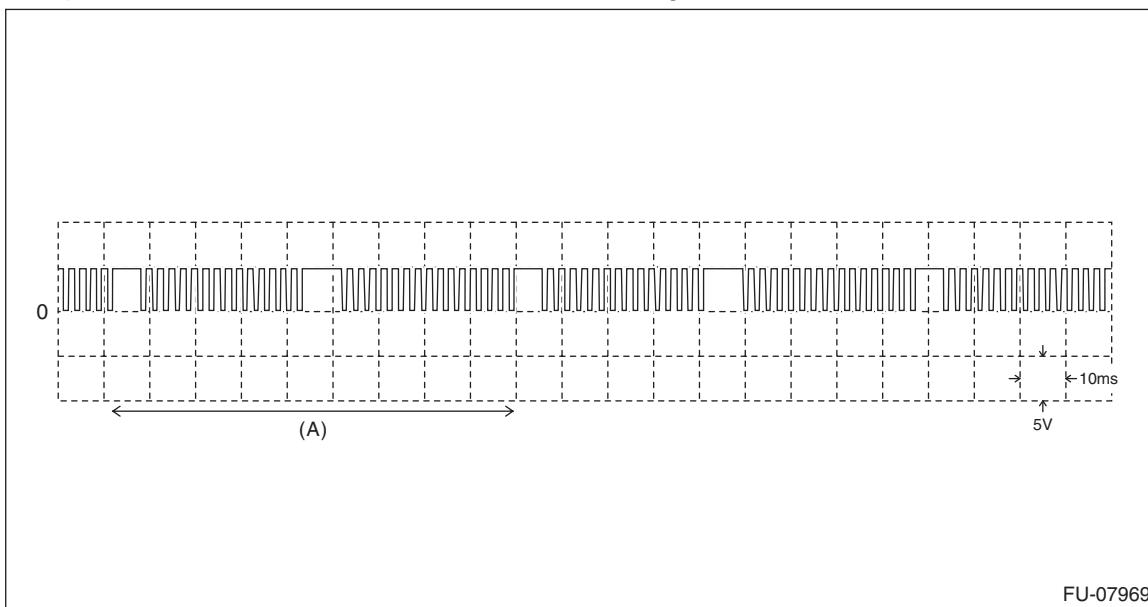


(A) To the check board connector
(ECM connector)

Terminal No.	Probe
19	+
31	-

7) Start the engine and let it idle.

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



(A) One crankshaft rotation

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

2. OTHER INSPECTIONS

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