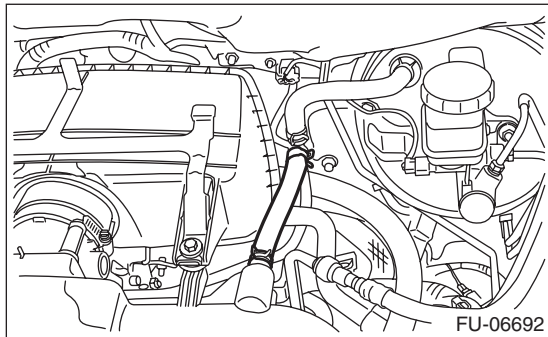


Throttle Body

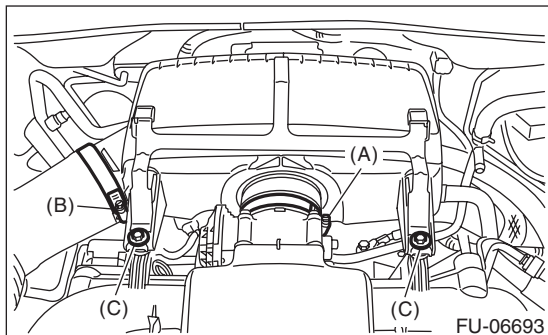
2. Throttle Body

A: REMOVAL

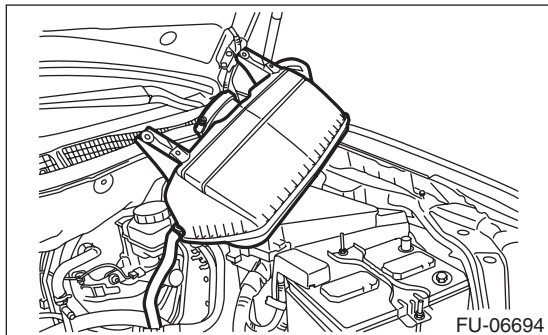
- 1) Remove the collector cover.
- 2) Disconnect the ground cable from battery.
- 3) Disconnect the brake booster vacuum hose from the intake manifold.



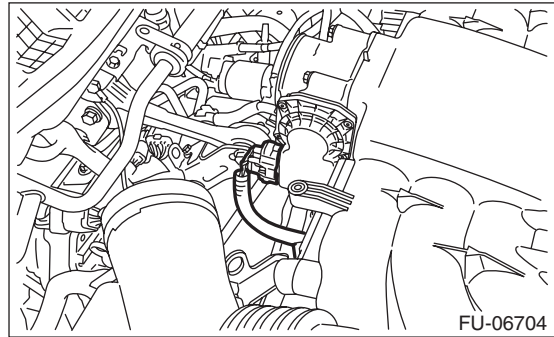
- 4) Loosen the clamp (A) which connects air intake chamber to throttle body.
- 5) Loosen the clamp (B) which connects intake boot to air intake chamber.
- 6) Remove the bolt (C) which secures air intake chamber and collector cover bracket to the stay.



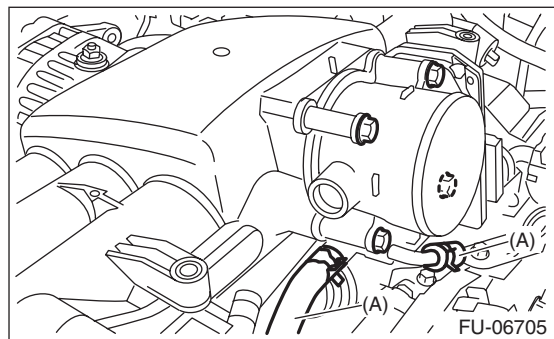
- 7) Remove the air intake chamber, and move it to the left side wheel apron.



- 8) Disconnect the connector from the throttle body.



- 9) Disconnect the engine coolant hoses (A) from throttle body.
- 10) Remove the bolts which secure the throttle body to the intake manifold.



Throttle Body

FUEL INJECTION (FUEL SYSTEMS)

B: INSTALLATION

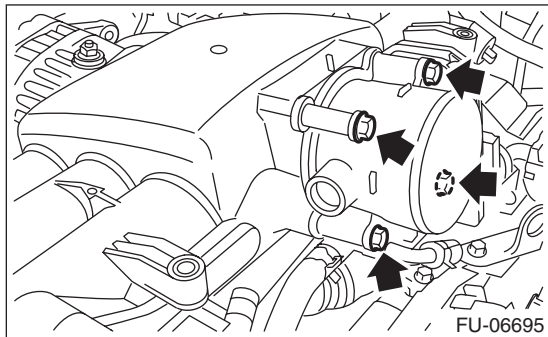
Install in the reverse order of removal.

NOTE:

Use new O-rings.

Tightening torque:

8 N·m (0.8 kgf-m, 5.9 ft-lb)



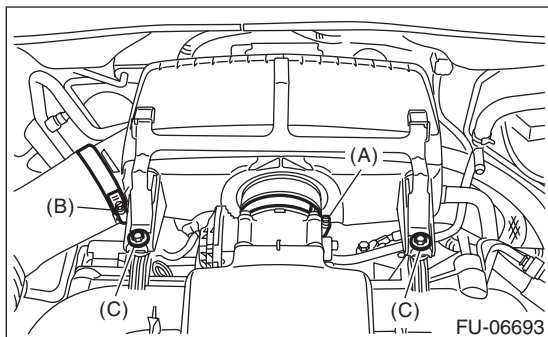
Tightening torque:

Clamp (A), (B)

3 N·m (0.3 kgf-m, 2.2 ft-lb)

Bolt (C)

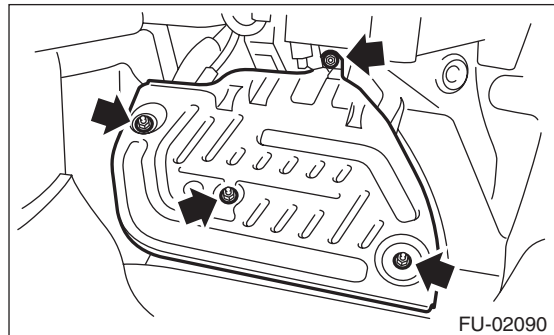
6.5 N·m (0.7 kgf-m, 4.8 ft-lb)



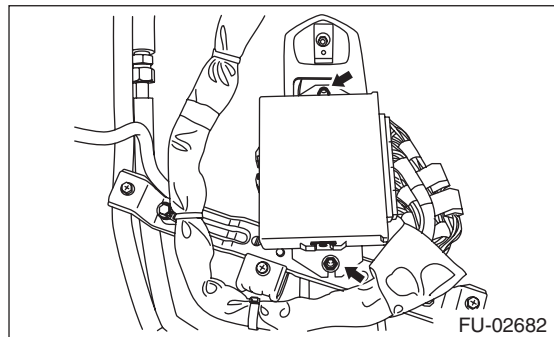
C: INSPECTION

1. THROTTLE SENSOR (METHOD WITH CIRCUIT TESTER)

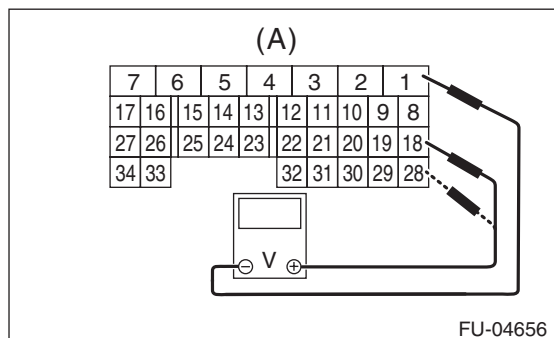
- 1) Disconnect the ground cable from battery.
- 2) Remove the front pillar lower trim and console side panel lower RH of passenger's side.
- 3) Detach the floor mat of passenger's seat.
- 4) Remove the protect cover.



- 5) Remove the ECM from vehicle.



- 6) Turn the ignition switch to ON. (engine OFF)
- 7) Measure the voltage between ECM connector terminals.



(A) To ECM connector

Throttle Body

Throttle sensor	Accelerator pedal	Terminal No.	Standard
Main	Not depressed (Full closed)	18 (+) and 1 (-)	Approx. 0.6 V
	Depressed (Full opened)		Approx. 4.04 V
Sub	Not depressed (Full closed)	28 (+) and 1 (-)	Approx. 1.48 V
	Depressed (Full opened)		Approx. 4.23 V

8) 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. THROTTLE SENSOR (METHOD WITH SUBARU SELECT MONITOR)

- 1) Turn the ignition switch to ON. (engine OFF)
- 2) Read the throttle opening angle signal and voltage of throttle sensor using Subaru Select Monitor. <Ref. to EN(H6DO)(diag)-38, READ CURRENT DATA FOR ENGINE (NORMAL MODE), OPERATION, Subaru Select Monitor.>

Throttle sensor	Throttle opening angle signal	Standard
Main	0.0%	Approx. 0.6 V
	100.0%	Approx. 4.04 V
Sub	0.0%	Approx. 1.48 V
	100.0%	Approx. 4.23 V

3. OTHER INSPECTIONS

- 1) Check that the throttle body has no deformation, cracks or other damages.
- 2) Check that the engine coolant hose has no cracks, damage or loose part.