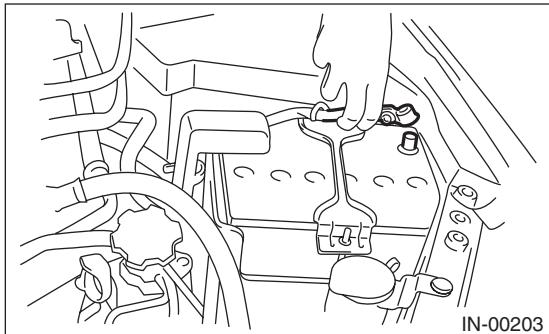


2. Throttle Body

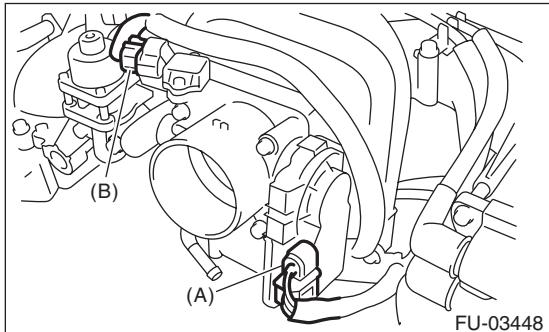
A: REMOVAL

- 1) Disconnect the ground cable from battery.



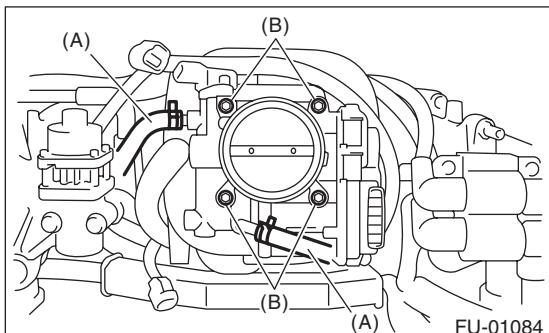
- 2) Lift up the vehicle.

- 3) Remove the under cover. <Ref. to EI-24, REMOVAL, Front Under Cover.>
- 4) Drain approximately 3.0 ℥ (3.2 US qt, 2.6 Imp qt) of coolant. <Ref. to CO(H4SO)-13, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 5) Remove the air intake chamber. <Ref. to IN(H4SO)-7, REMOVAL, Air Intake Chamber.>
- 6) Disconnect the throttle position sensor connector (A) and manifold absolute pressure sensor connector (B).



- 7) Disconnect the engine coolant hoses (A) from throttle body.

- 8) Remove the bolts (B) which secure the throttle body to the intake manifold, and remove the throttle body.



B: INSTALLATION

Install in the reverse order of removal.

NOTE:

Use a new gasket.

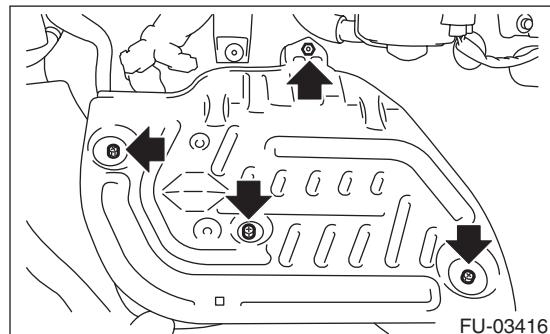
Tightening torque:

8 N·m (0.8 kgf-m, 5.9 ft-lb)

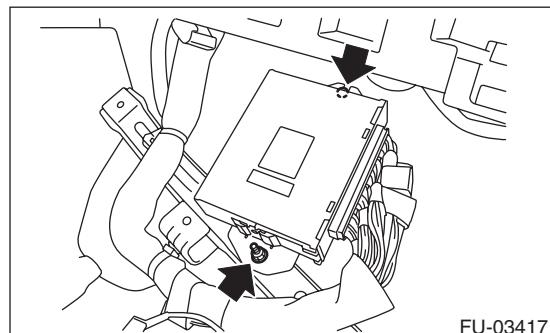
C: INSPECTION

1. THROTTLE SENSOR (METHOD WITH CIRCUIT TESTER)

- 1) Remove the lower inner trim of passenger's side. <Ref. to EI-53, REMOVAL, Lower Inner Trim.>
- 2) Turn over the floor mat of passenger's seat.
- 3) Remove the protect cover.

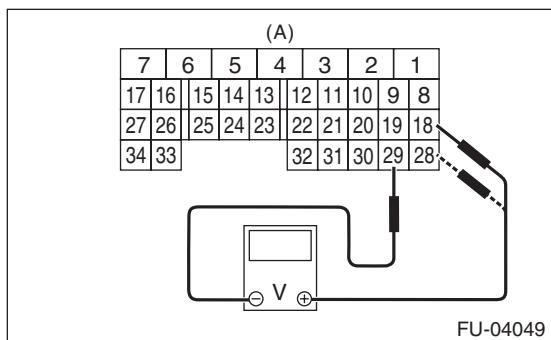


- 4) Remove the nuts and bolts which hold the ECM to the bracket.



- 5) Turn the ignition switch to ON. (engine OFF)

6) Measure the voltage between ECM connector terminals.



Throttle sensor	Accelerator pedal	Terminal No.	Standard
Main	Not depressed (Full closed)	18 (+) and 29 (-)	Approx. 0.6 V
	Depressed (Full opened)		Approx. 4.0 V
Sub	Not depressed (Full closed)	28 (+) and 29 (-)	Approx. 1.5 V
	Depressed (Full opened)		Approx. 4.2 V

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(H4SO)(diag)-34, 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. 4.0 V
Sub	0.0 %	Approx. 1.5 V
	100.0 %	Approx. 4.2 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.