

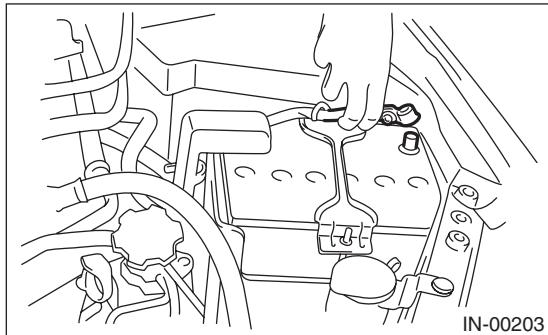
Throttle Body

FUEL INJECTION (FUEL SYSTEMS)

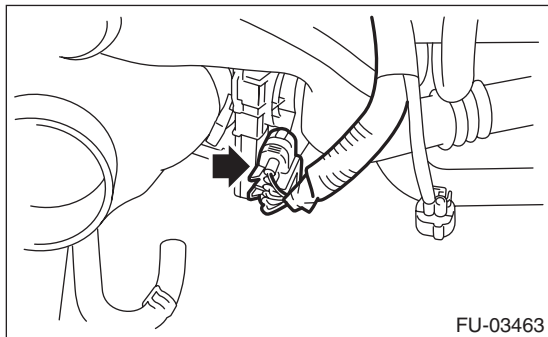
2. Throttle Body

A: REMOVAL

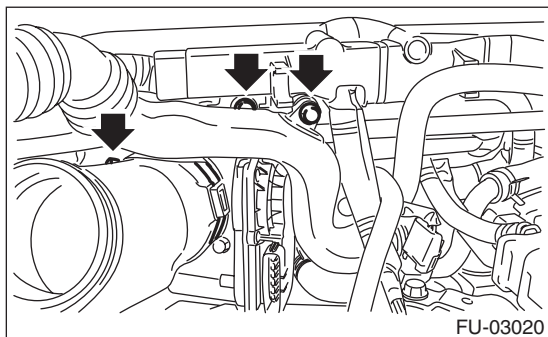
- 1) Set the vehicle on a lift.
- 2) Disconnect the ground cable from battery.



- 3) Lift up the vehicle.
- 4) Remove the under cover.
- 5) Drain approximately 3.0 ℓ (3.2 US qt, 2.6 Imp qt) of coolant. <Ref. to CO(H4DOTC)-14, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 6) Remove the intercooler. <Ref. to IN(H4DOTC)-13, REMOVAL, Intercooler.>
- 7) Disconnect the connectors from the throttle position sensor.

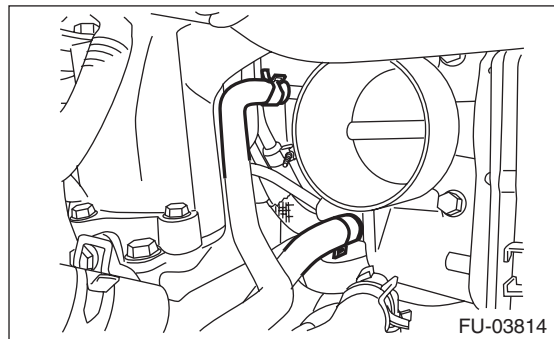


- 8) Remove the bolts which secure the air by-pass pipe and PCV pipe to the intake manifold, and loosen the clamp which connects the throttle body and duct.

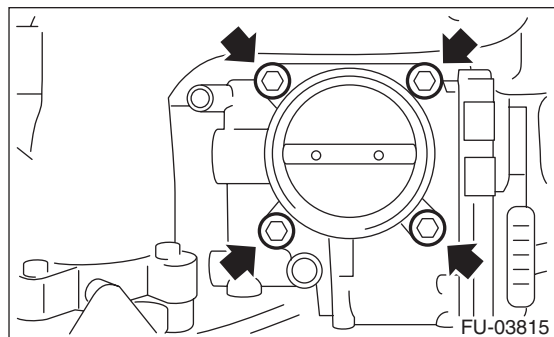


- 9) Remove the duct from the throttle body.

- 10) Disconnect the engine coolant hose from throttle body.



- 11) Remove the bolts which secure the throttle body to the intake manifold and remove the throttle body.



B: INSTALLATION

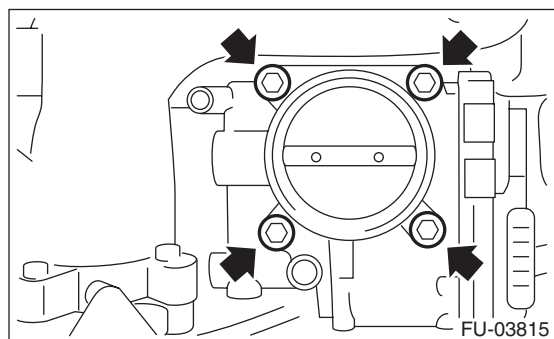
Install in the reverse order of removal.

NOTE:

Use new O-rings.

Tightening torque:

8 N·m (0.8 kgf-m, 5.9 ft-lb)



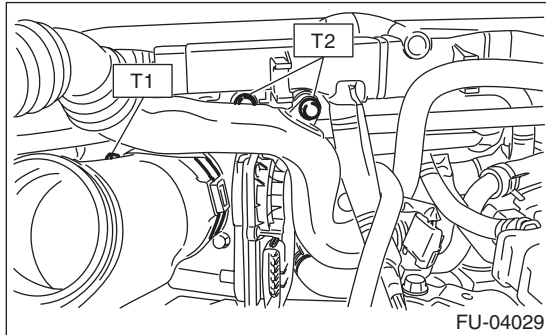
Throttle Body

FUEL INJECTION (FUEL SYSTEMS)

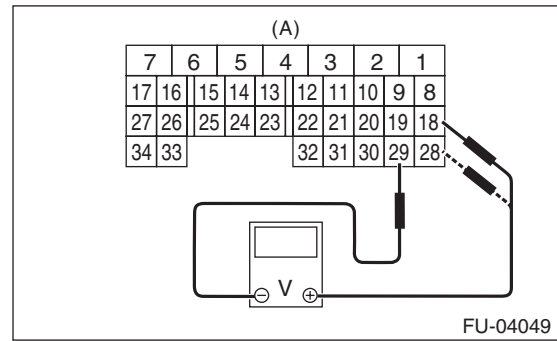
Tightening torque:

T1: 3 N·m (0.3 kgf-m, 2.2 ft-lb)

T2: 6.4 N·m (0.7 kgf-m, 4.7 ft-lb)



6) Measure the voltage between ECM connector terminals.

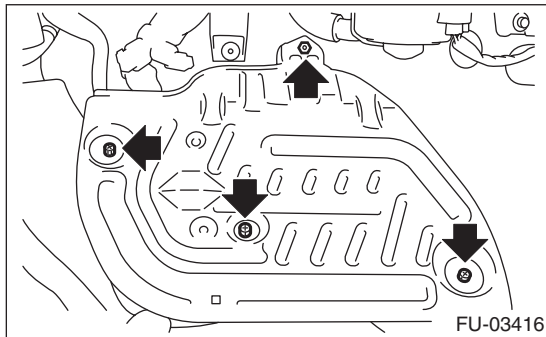


(A) To ECM connector

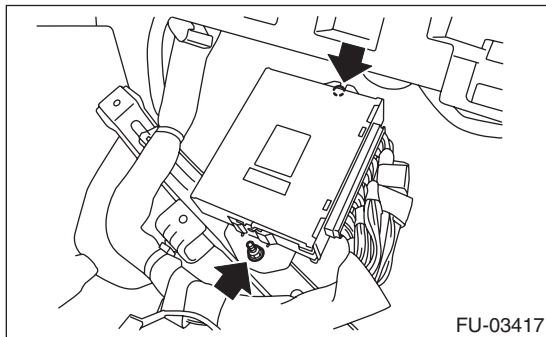
C: INSPECTION

1. THROTTLE SENSOR (METHOD WITH CIRCUIT TESTER)

- 1) Remove the lower inner trim of passenger's side. <Ref. to EI-55, 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)

Throttle sensor	Accelerator pedal	Terminal No.	Standard
Main	Not depressed (Full closed)	18 (+) and 29 (-)	Approx. 0.6 V
	Depressed (Full opened)		Approx. 3.96 V
Sub	Not depressed (Full closed)	28 (+) and 29 (-)	Approx. 1.48 V
	Depressed (Full opened)		Approx. 4.17 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(H4DOTC)(diag)-37, 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. 3.96 V
Sub	0.0 %	Approx. 1.48 V
	100.0 %	Approx. 4.17 V