

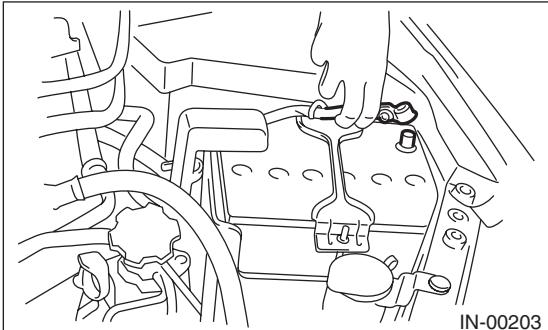
Throttle Body

FUEL INJECTION (FUEL SYSTEMS)

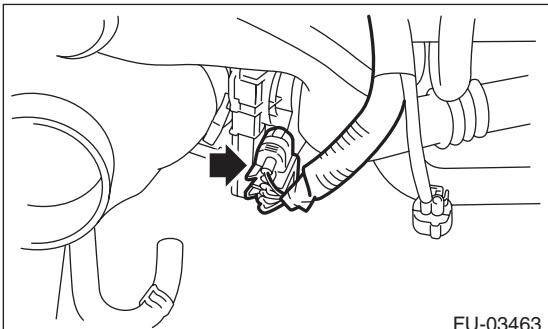
2. Throttle Body

A: REMOVAL

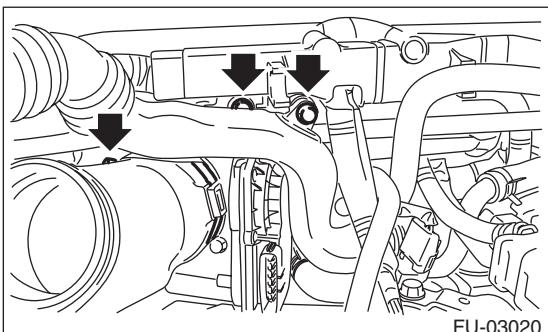
- 1) Set the vehicle on a lift.
- 2) Disconnect the ground cable from battery.



- 3) Lift up the vehicle.
- 4) Remove the under cover.
- 5) Drain approximately 3.0 ℥ (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.

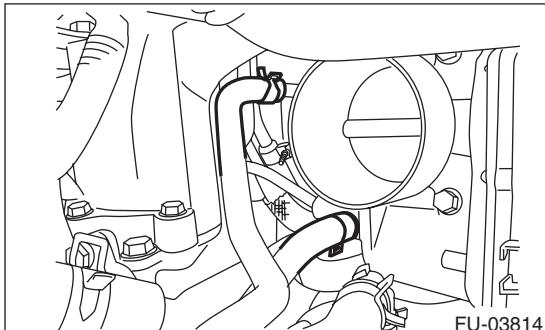


- 8) Remove the bolts which secure the air by-pass pipe and PCV pipe to the intake manifold, and loosen the clamp which connects the throttle body and duct.

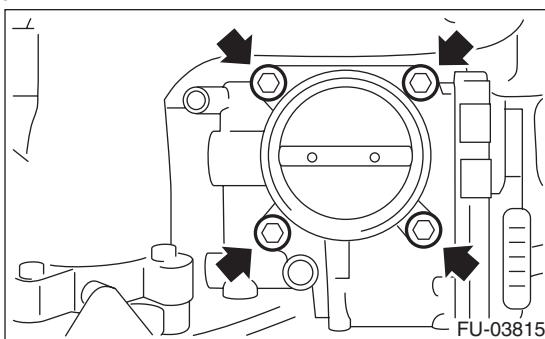


- 9) Remove the duct from the throttle body.

- 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.



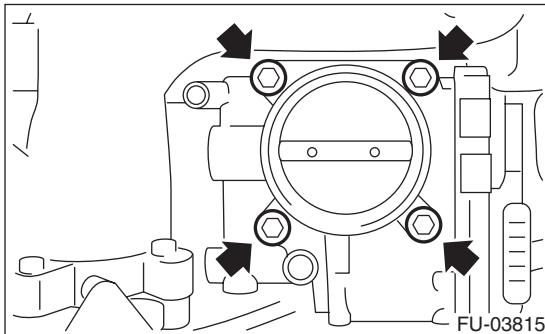
B: INSTALLATION

Install in the reverse order of removal.

NOTE:

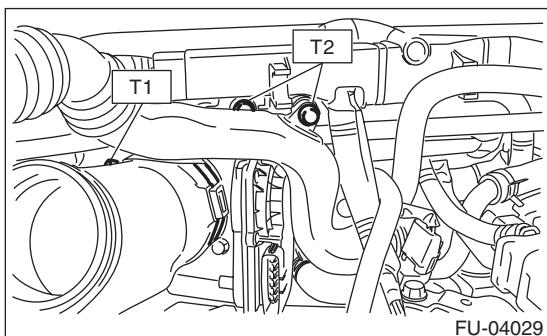
Use new O-rings.

Tightening torque:
8 N·m (0.8 kgf·m, 5.9 ft-lb)



Tightening torque:

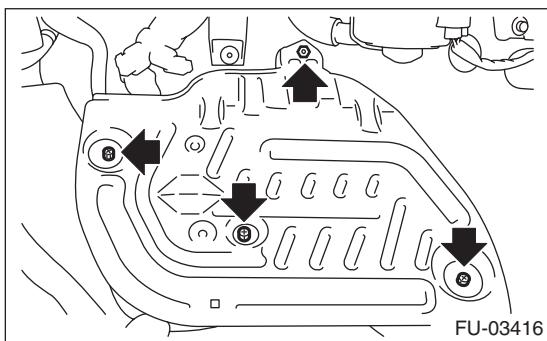
T1: 3 N·m (0.3 kgf-m, 2.2 ft-lb)
 T2: 6.4 N·m (0.7 kgf-m, 4.7 ft-lb)



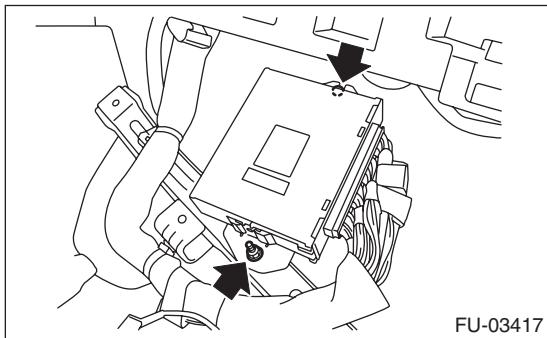
C: INSPECTION

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.

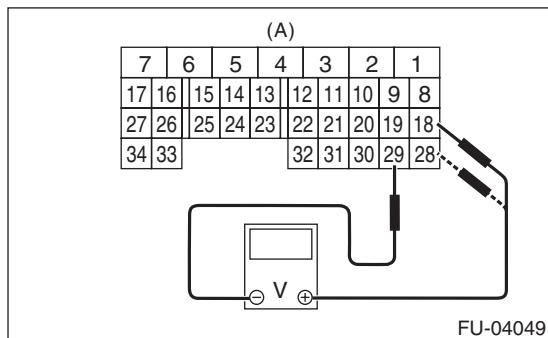


- 4) Remove the nuts and bolts which hold the ECM to the bracket.



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

- 6) Measure the voltage between ECM connector terminals.



(A) To ECM connector

| 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 |