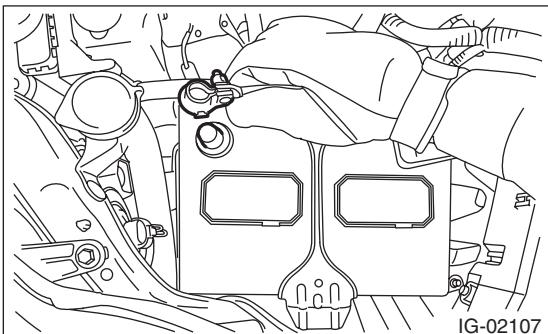


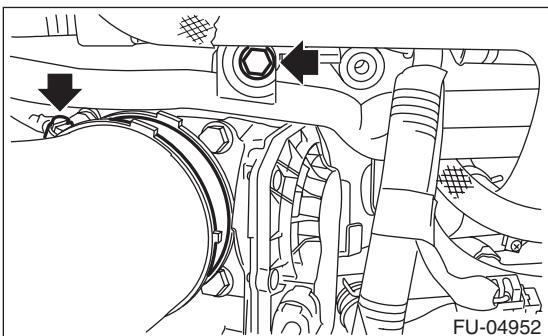
## 2. Throttle Body

### A: REMOVAL

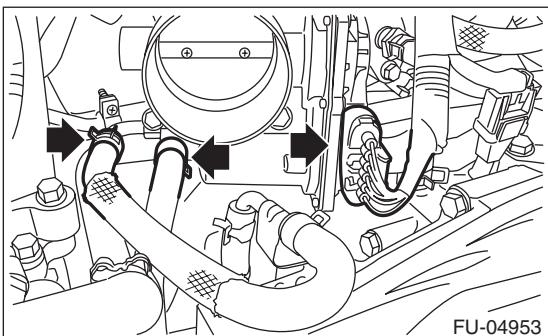
- 1) Remove the collector cover.
- 2) Disconnect the ground cable from battery.



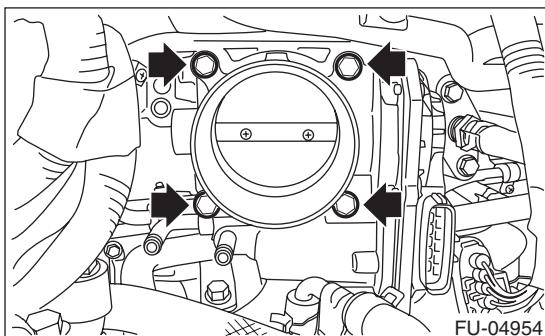
- 3) Lift up the vehicle.
- 4) Remove the under cover. <Ref. to EI-35, REMOVAL, Front Under Cover.>
- 5) Drain approximately 2.0 l (2.1 US qt, 1.8 Imp qt) of engine coolant. <Ref. to CO(H4DOTC)-14, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 6) Remove the intercooler. <Ref. to IN(H4DOTC)-17, REMOVAL, Intercooler.>
- 7) Remove the bolts which secure the engine harness and PCV pipe to the intake manifold, and remove the intake duct from the throttle body.



- 8) Disconnect the connectors and preheater hoses from the throttle position sensor.



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

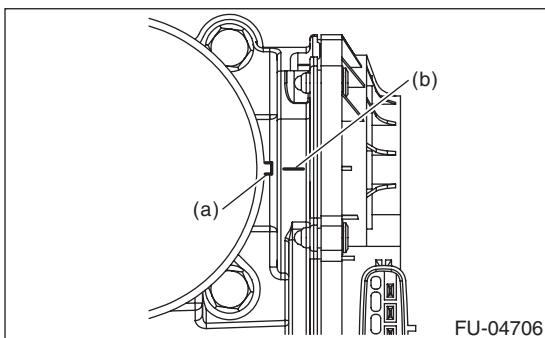


### B: INSTALLATION

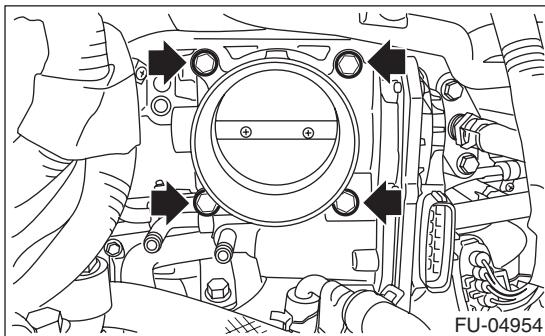
Install in the reverse order of removal.

#### NOTE:

- Use new O-rings.
- When installing the intake duct to the throttle body, align the protrusion (a) on the intake duct to the installation position mark (b) on the throttle body to install.



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

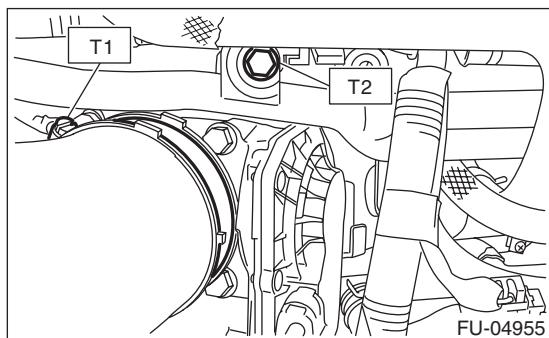


# Throttle Body

## FUEL INJECTION (FUEL SYSTEMS)

### Tightening torque:

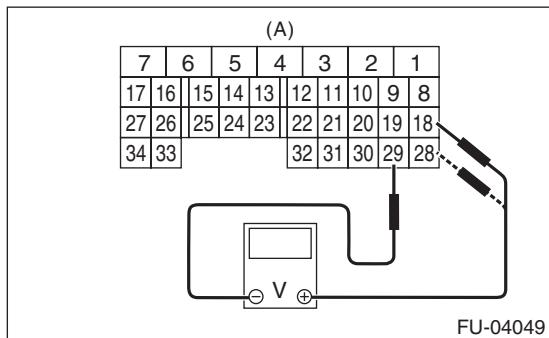
T1: 3 N·m (0.3 kgf-m, 2.2 ft-lb)  
 T2: 6.4 N·m (0.7 kgf-m, 4.7 ft-lb)



### C: INSPECTION

#### 1. THROTTLE SENSOR INSPECTION (METHOD WITH CIRCUIT TESTER)

- 1) Remove the glove box lid assembly. <Ref. to EI-65, REMOVAL, Glove Box.>
- 2) Turn the ignition switch to ON. (engine OFF)
- 3) Check 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. 4.04 V
Sub	Not depressed (Full closed)	28 (+) and 29 (-)	Approx. 1.48 V
	Depressed (Full opened)		Approx. 4.23 V

#### 2. THROTTLE SENSOR INSPECTION (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)-36, 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