

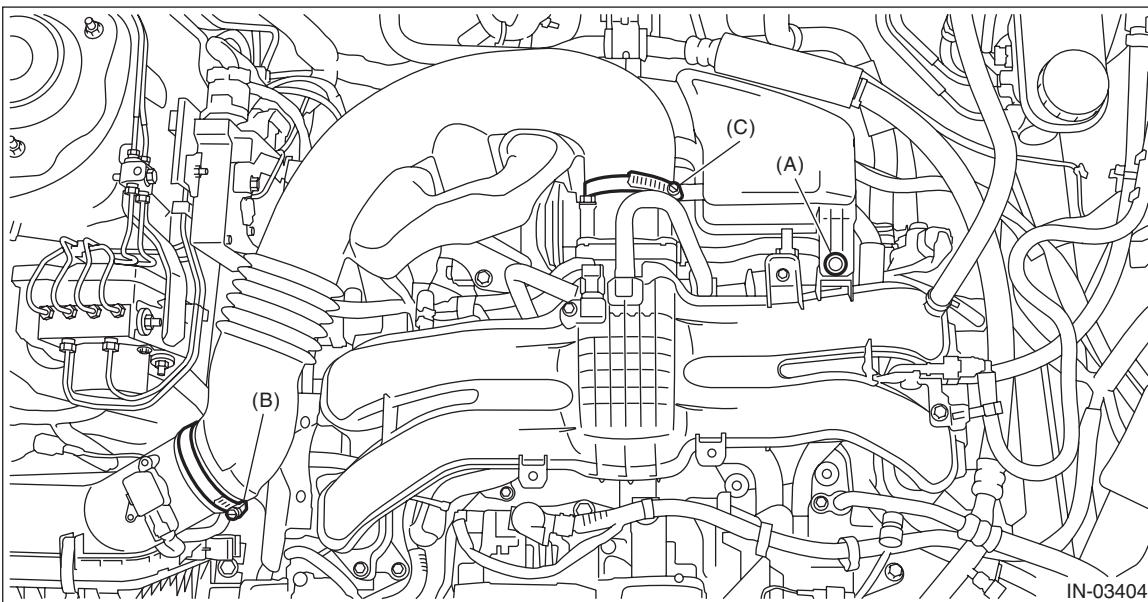
# Throttle Body

## FUEL INJECTION (FUEL SYSTEMS)

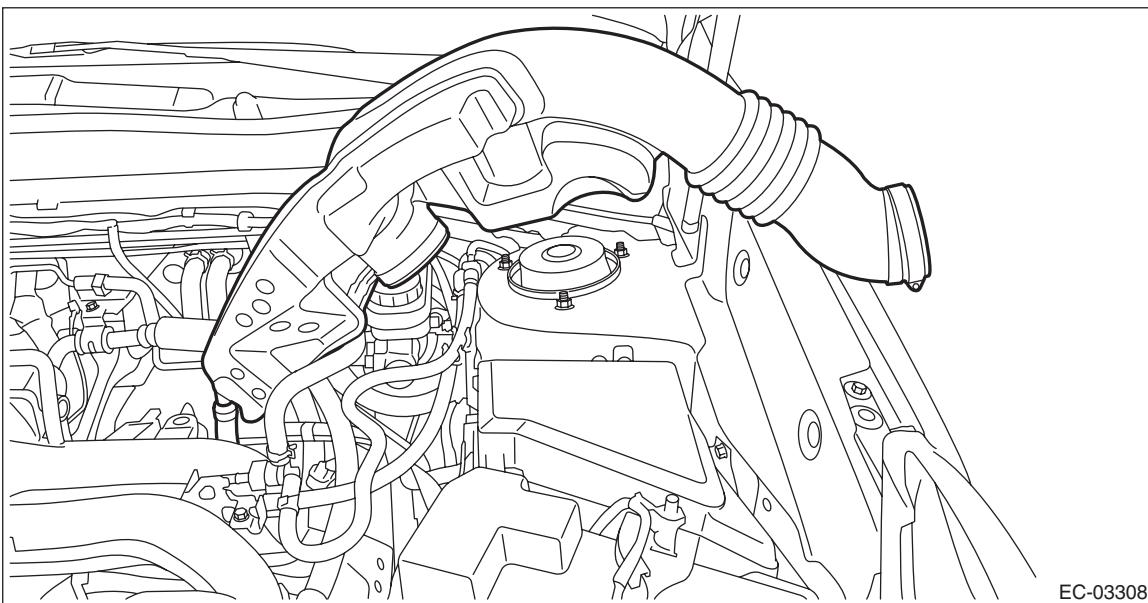
### 2. Throttle Body

#### A: REMOVAL

- 1) Disconnect the ground cable from battery.
- 2) Lift up the vehicle.
- 3) Remove the under cover. <Ref. to EI-23, REMOVAL, Front Under Cover.>
- 4) Drain approximately 3.0 L (3.2 US qt, 2.6 Imp qt) of coolant. <Ref. to CO(H4DO)-14, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 5) Remove the clip (A) from the air intake boot.
- 6) Loosen the clamp (B) securing the air cleaner case (rear) to the air intake boot.
- 7) Loosen the clamp (C) which secures the throttle body to the air intake boot.



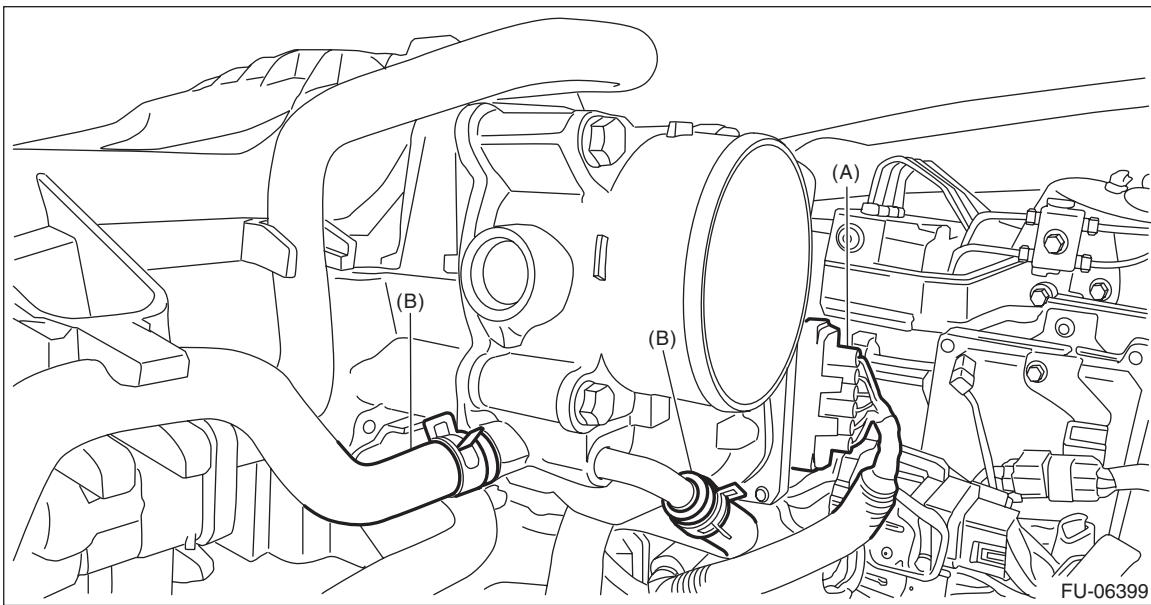
- 8) Remove the air intake boot from the throttle body, and move it to the left side wheel apron.



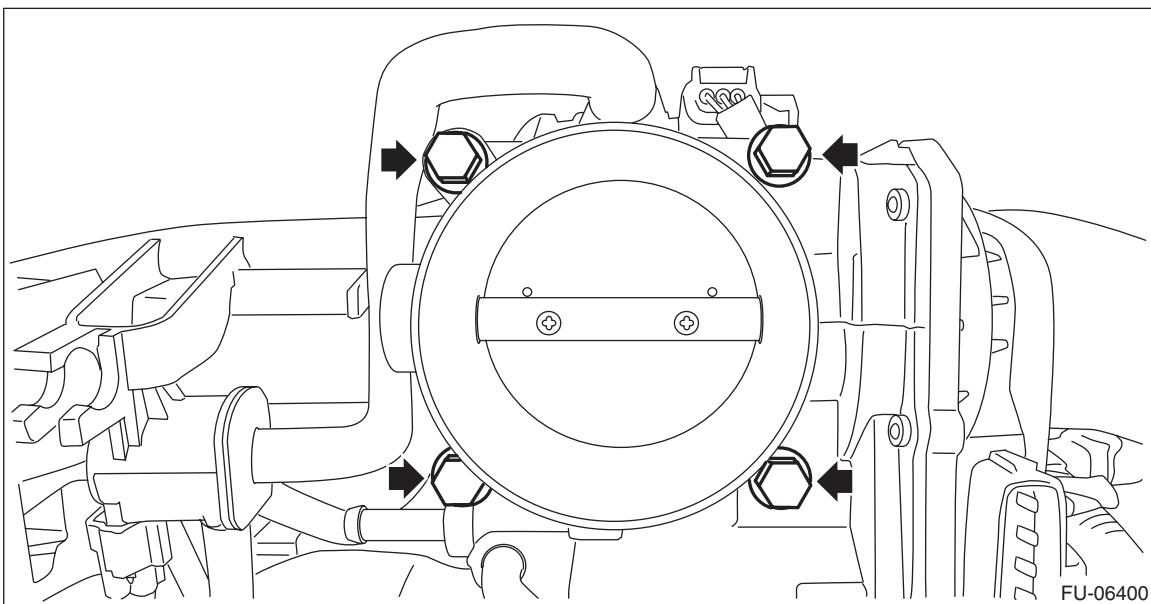
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- 9) Disconnect the connectors (A) from the throttle position sensor.
- 10) Disconnect the preheater hose (B) from the throttle body.



- 11) Remove the throttle body from the intake manifold.



## 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)**

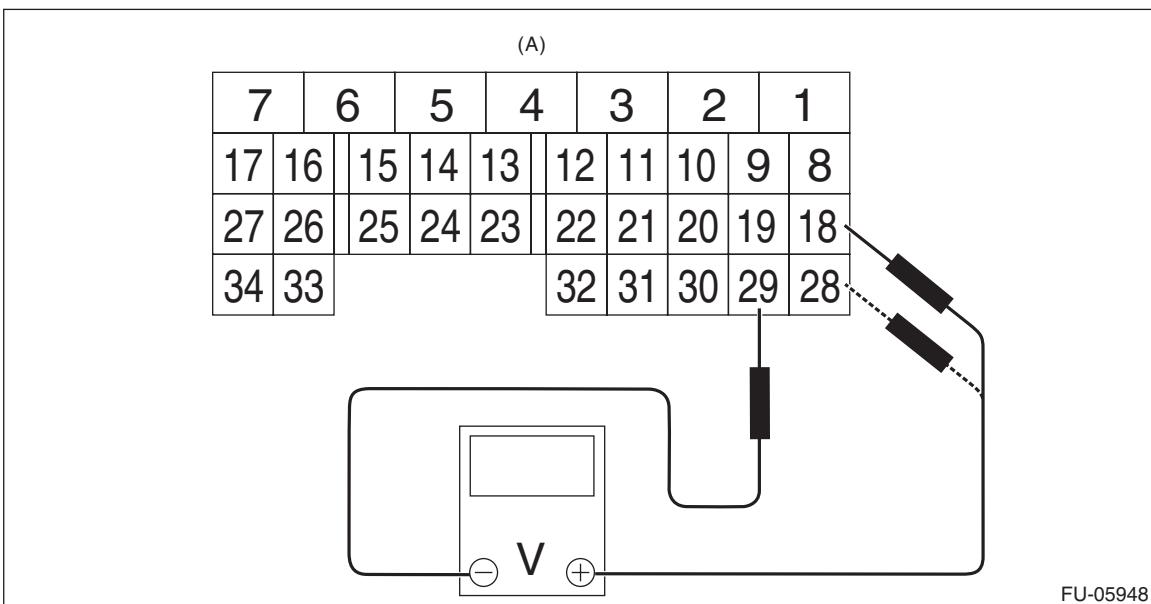
# Throttle Body

## FUEL INJECTION (FUEL SYSTEMS)

### C: INSPECTION

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

- 1) Remove the glove box. <Ref. to EI-61, REMOVAL, Glove Box.>
- 2) After warming-up the engine, turn the ignition switch to OFF.
- 3) Turn the ignition switch to ON. (engine OFF)
- 4) 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. 4.0 V
Sub	Not depressed (full closed)	28 (+) and 29 (-)	Approx. 1.5 V
	Depressed (full opened)		Approx. 4.2 V

- 5) After inspection, install the related parts in the reverse order of removal.

### 2. THROTTLE SENSOR (METHOD WITH SUBARU SELECT MONITOR)

- 1) After warming-up the engine, turn the ignition switch to OFF.
- 2) Turn the ignition switch to ON. (engine OFF)
- 3) Read the throttle opening angle signal and voltage of throttle sensor using Subaru Select Monitor. <Ref. to EN(H4DO)(diag)-36, DISPLAY CURRENT ENGINE DATA, 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 preheater hose has no cracks, damage or loose part.