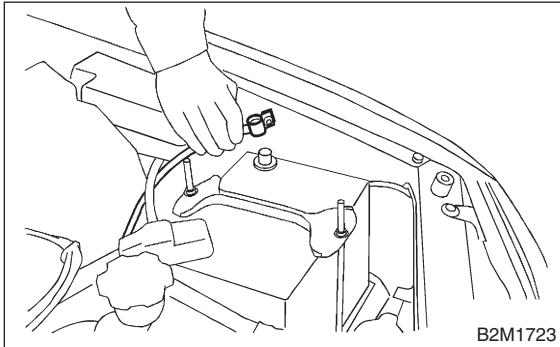


## 8. Throttle Position Sensor S105039

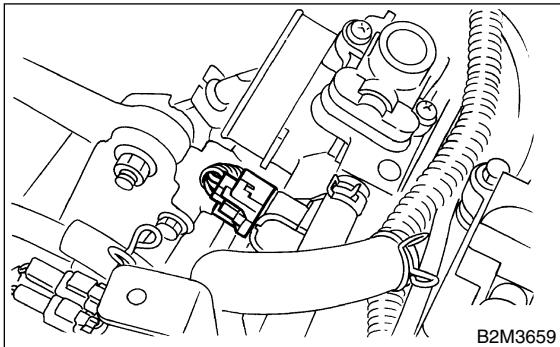
### A: REMOVAL S105039A18

#### 1. 2200 cc MODELS S105039A1803

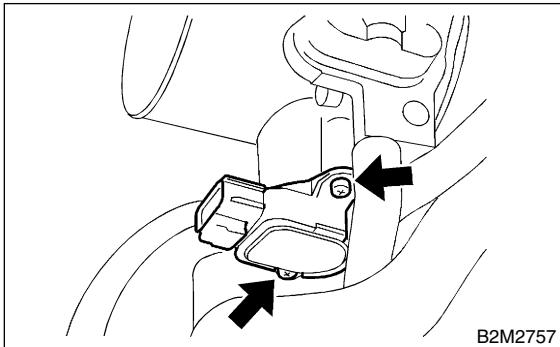
- 1) Disconnect battery ground cable.



- 2) Disconnect connector from throttle position sensor.

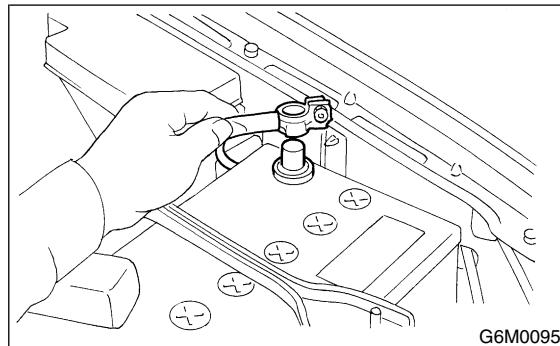


- 3) Remove throttle position sensor holding screws, and remove throttle position sensor itself.

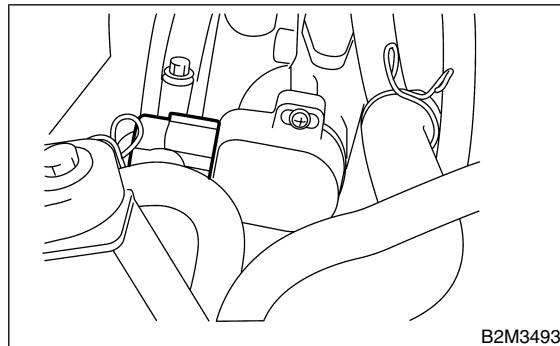


### 2. 2500 cc MODELS S105039A1804

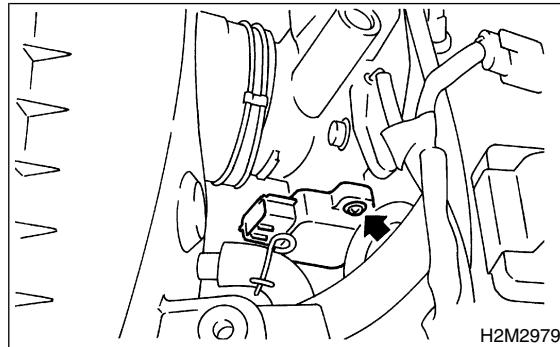
- 1) Disconnect battery ground cable.



- 2) Disconnect connector from throttle position sensor.



- 3) Remove throttle position sensor holding screws, and remove it.



# THROTTLE POSITION SENSOR

Fuel Injection (Fuel Systems)

## B: INSTALLATION

S105039A11

### 1. 2200 cc MODELS

S105039A1103

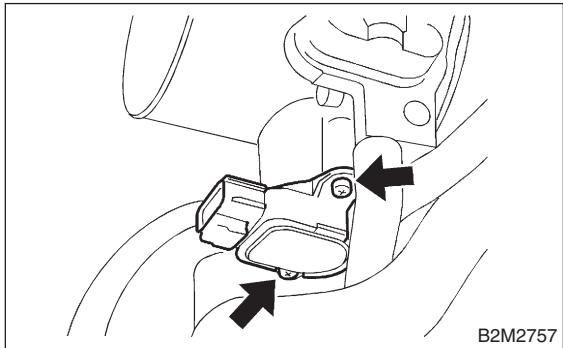
Install in the reverse order of removal.

**CAUTION:**

When installing throttle position sensor, adjust the position to match with the specified data.

**Tightening torque:**

2.2 N·m (0.22 kgf-m, 1.6 ft-lb)



### 2. 2500 cc MODELS

S105039A1104

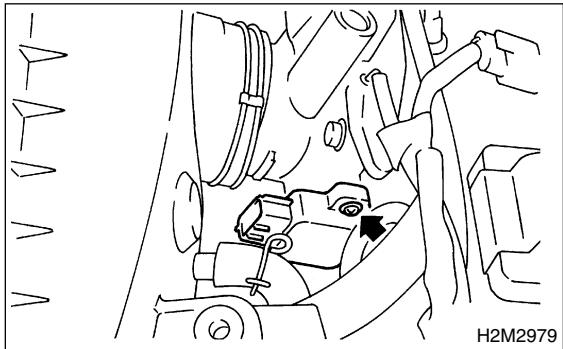
Install in the reverse order of removal.

**Tightening torque:**

2.2 N·m (0.22 kgf-m, 1.6 ft-lb)

**CAUTION:**

When installing throttle position sensor, adjust to the specified data.



## C: ADJUSTMENT

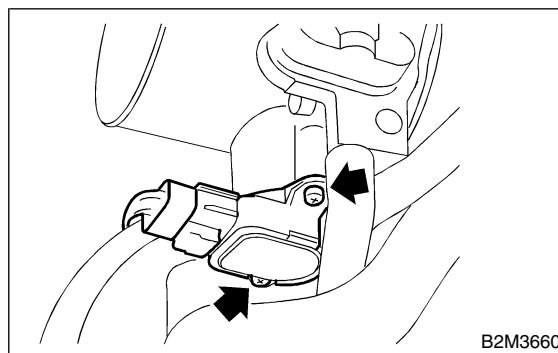
S105039A01

### 1. 2200 cc MODELS

S105039A0103

2200 cc models

- 1) Turn ignition switch to OFF.
- 2) Loosen throttle position sensor holding screws.



- 3) When using voltage meter;

(1) Take out ECM.

(2) Turn ignition switch to ON.

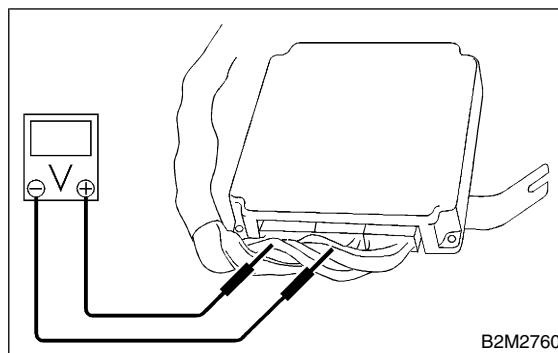
(3) Adjust throttle position sensor to the proper position to allow the voltage signal to ECM to be in specification.

**Connector & terminal / Specified voltage**

**(B136) No. 15 — (B136) No. 17 / 0.45 —**

**0.55 V**

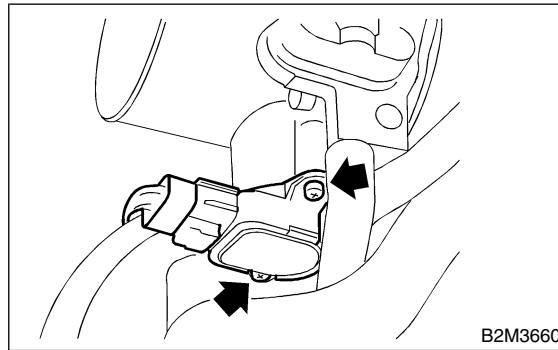
**[Fully closed.]**



- (4) Tighten throttle position sensor holding screws.

**Tightening torque:**

2.2 N·m (0.22 kgf-m, 1.6 ft-lb)



# THROTTLE POSITION SENSOR

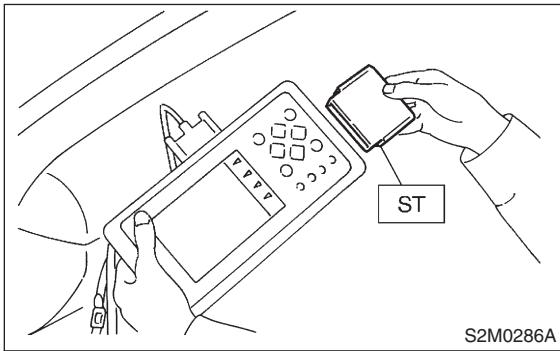
Fuel Injection (Fuel Systems)

4) When using Subaru Select Monitor;

NOTE:

For detailed operation procedures, refer to the Subaru Select Monitor Operation Manual.

(1) Insert the cartridge to Subaru Select Monitor.



(2) Connect Subaru Select Monitor to the data link connector.

(3) Turn ignition switch to ON, and Subaru Select Monitor switch to ON.

(4) Select {2. Each System Check} in Main Menu.

(5) Select {Engine Control System} in Selection Menu.

(6) Select {1. Current Data Display & Save} in EGI/EMPI Diagnosis.

(7) Select {1.12 Data Display} in Data Display Menu.

(8) Adjust throttle position sensor to the proper position to match with the following specifications.

**Condition: Throttle fully closed**

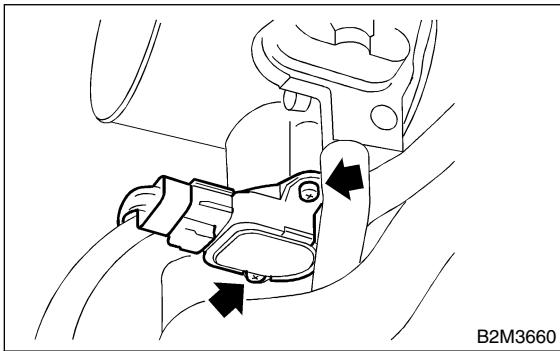
**Throttle opening angle 0.00%**

**Throttle sensor voltage 0.50 V**

(9) Tighten throttle position sensor holding screws.

**Tightening torque:**

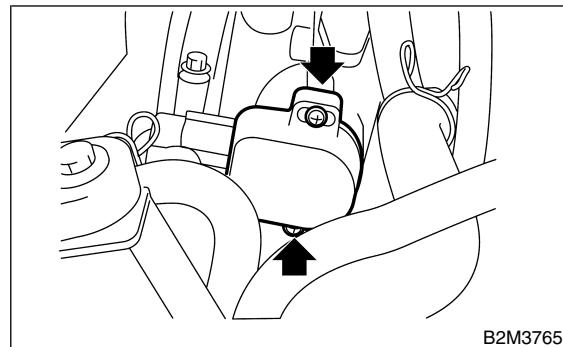
**2.2 N·m (0.22 kgf·m, 1.6 ft-lb)**



## 2. 2500 cc MODELS S105039A0104

2500 cc models

1) Turn ignition switch to OFF.  
2) Loosen throttle position sensor holding screws.



3) When using voltage meter;

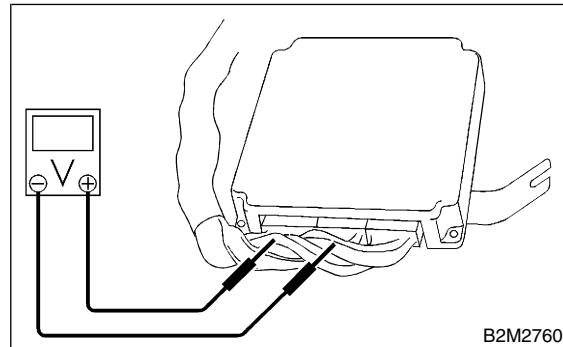
(1) Take out ECM.

(2) Turn ignition switch to ON.

(3) Adjust throttle position sensor to the proper position to allow the voltage signal to ECM to be in specification.

**Connector & terminal / Specified voltage**

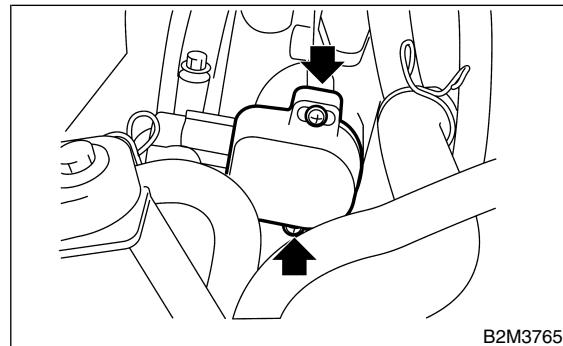
**(B136) No. 15 — (B136) No. 17 / 0.45 — 0.55 V  
[Fully closed.]**



(4) Tighten throttle position sensor holding screws.

**Tightening torque:**

**2.2 N·m (0.22 kgf·m, 1.6 ft-lb)**



## THROTTLE POSITION SENSOR

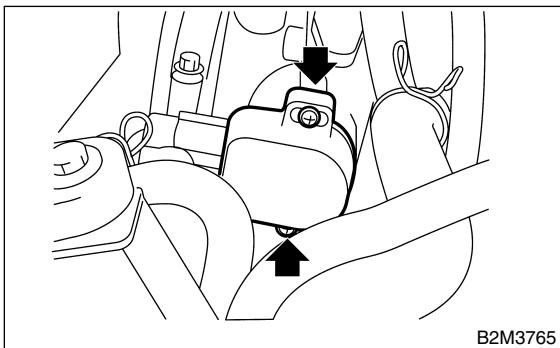
### Fuel Injection (Fuel Systems)

- 4) When using Subaru Select Monitor;

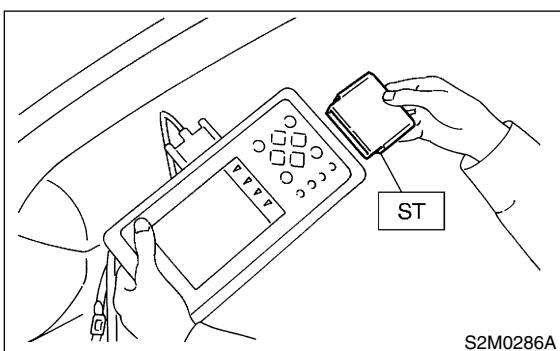
NOTE:

For detailed operation procedures, refer to the Subaru Select Monitor Operation Manual.

- (1) Turn ignition switch to OFF.
- (2) Loosen throttle position sensor holding screws.



- (3) Insert the cartridge to Subaru Select Monitor.



- (4) Connect Subaru Select Monitor to the data link connector.
- 5) Turn ignition switch to ON, and Subaru Select Monitor switch to ON.
- 6) Select {2. Each System Check} in Main Menu.
- 7) Select {Engine Control System} in Selection Menu.
- 8) Select {1. Current Data Display & Save} in Engine Control System Diagnosis.
- 9) Select {1.12 Data Display} in Data Display Menu.
- 10) Adjust throttle position sensor to the proper position to match with the following specifications.

**Condition: Throttle fully closed**

**Throttle opening angle 0.00%**

**Throttle sensor voltage 0.50 V**