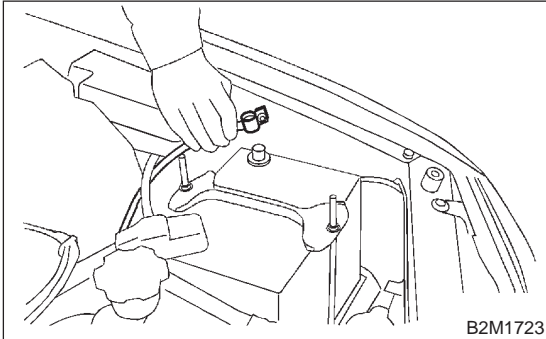


## 8. Throttle Position Sensor S105039

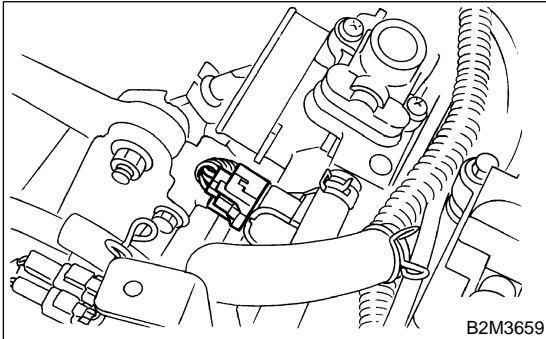
### A: REMOVAL S105039A18

#### 1. MT VEHICLES S105039A1801

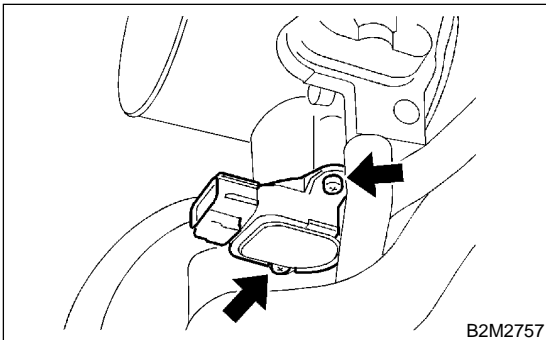
- 1) Disconnect battery ground cable.



- 2) Disconnect connector from throttle position sensor.

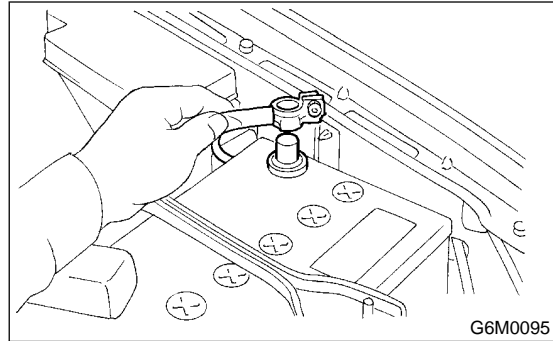


- 3) Remove throttle position sensor holding screws, and remove throttle position sensor itself.

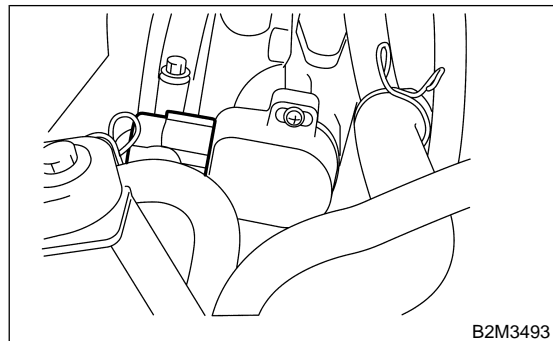


#### 2. AT VEHICLES S105039A1802

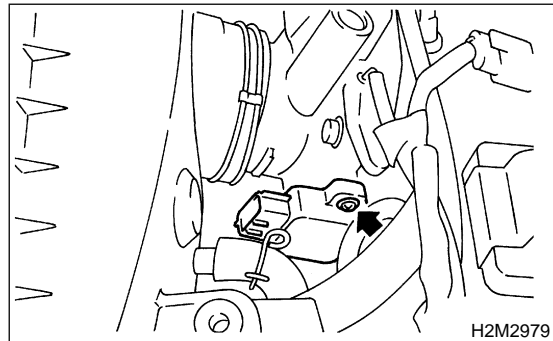
- 1) Disconnect battery ground cable.



- 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. MT VEHICLES

S105039A1101

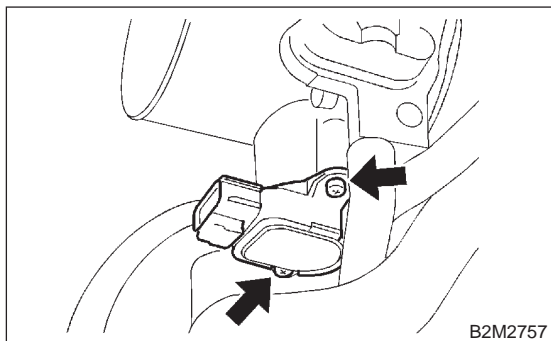
Install in the reverse order of removal.

#### CAUTION:

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

**Tightening torque:**

**1.6 N·m (0.16 kgf·m, 1.2 ft·lb)**



### 2. AT VEHICLES

S105039A1102

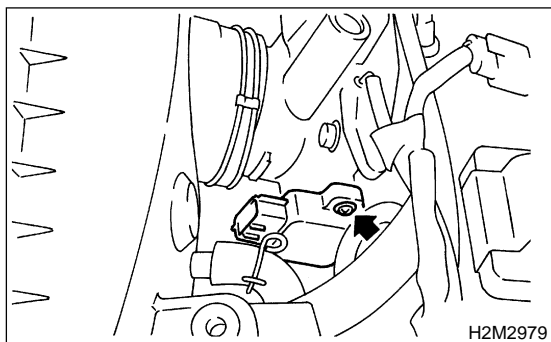
Install in the reverse order of removal.

**Tightening torque:**

**1.6 N·m (0.16 kgf·m, 1.2 ft·lb)**

#### CAUTION:

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



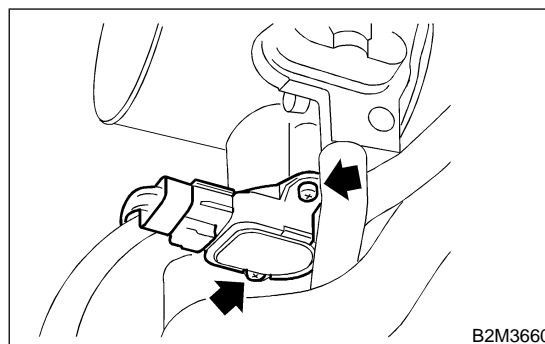
## C: ADJUSTMENT

S105039A01

### 1. MT VEHICLES

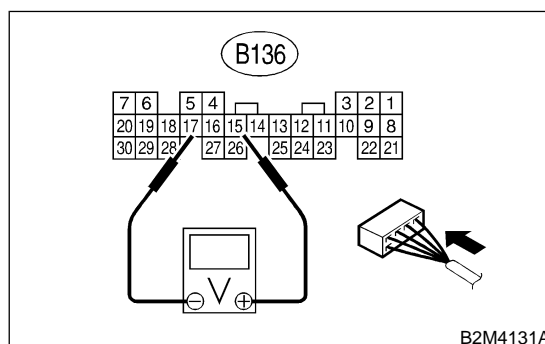
S105039A0101

- 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.

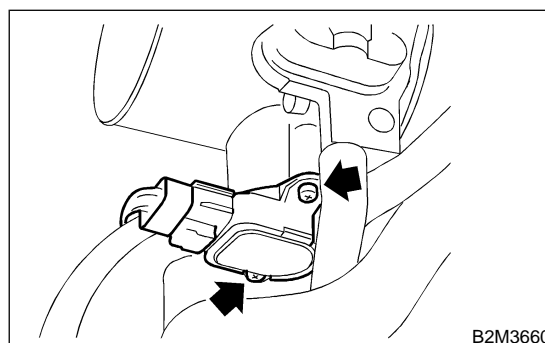
**Connector & terminal / Specified voltage**  
**(B136) No. 15 — (B136) No. 17 / 0.45 —**  
**0.55 V**  
**[Fully closed.]**



- (4) Tighten throttle position sensor holding screws.

**Tightening torque:**

**1.6 N·m (0.16 kgf·m, 1.2 ft·lb)**



# THROTTLE POSITION SENSOR

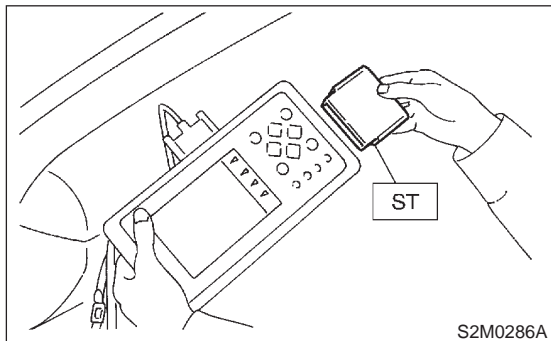
Fuel Injection (Fuel Systems)

4) When using Subaru Select Monitor;

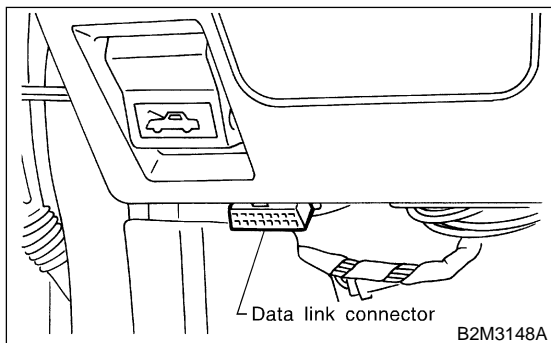
**NOTE:**

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.

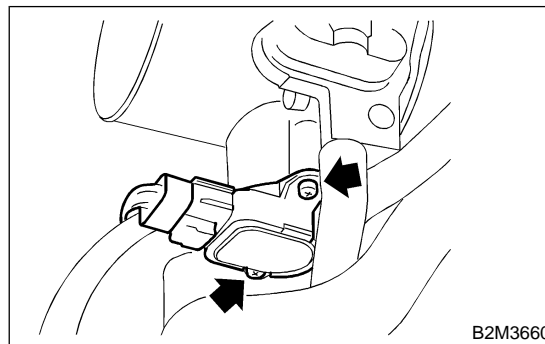
(8) Adjust throttle position sensor to the proper position to match with the following specifications.

**Condition: Throttle fully closed**  
**Throttle opening angle 0.00%**  
**Throttle sensor voltage 0.50 V**

(9) Tighten throttle position sensor holding screws.

**Tightening torque:**

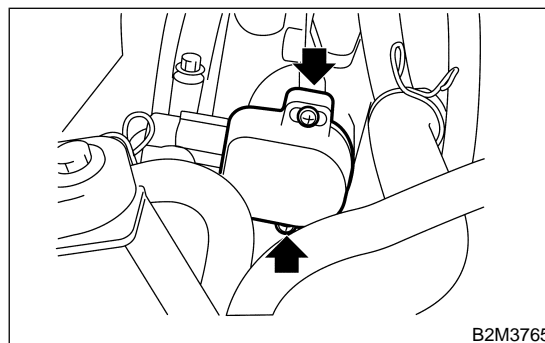
**1.6 N·m (0.16 kgf·m, 1.2 ft·lb)**



**2. AT VEHICLES**

S105039A0102

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

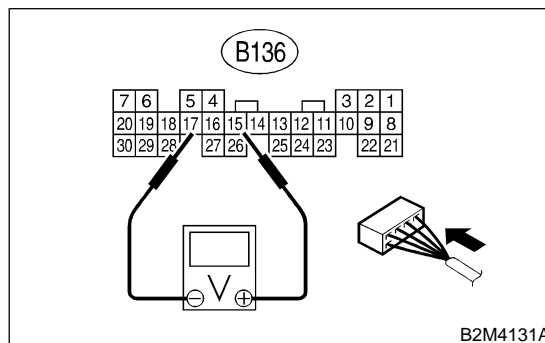


3) When using voltage meter;

- (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.]**



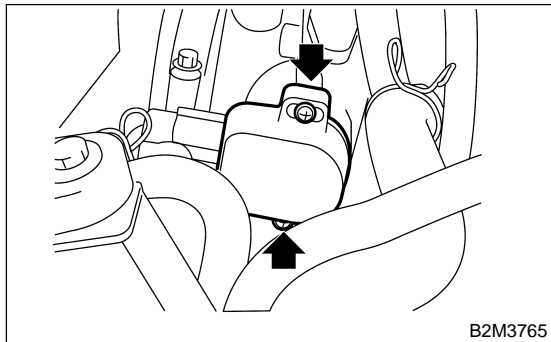
# THROTTLE POSITION SENSOR

Fuel Injection (Fuel Systems)

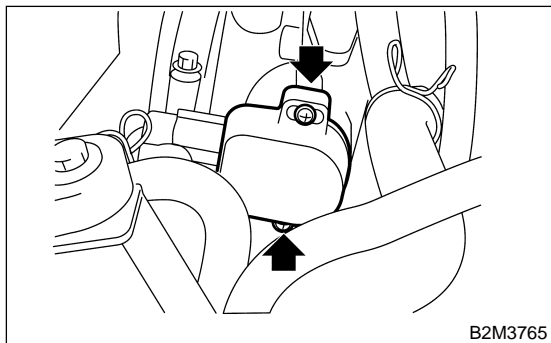
(4) Tighten throttle position sensor holding screws.

**Tightening torque:**

**1.6 N·m (0.16 kgf·m, 1.2 ft·lb)**



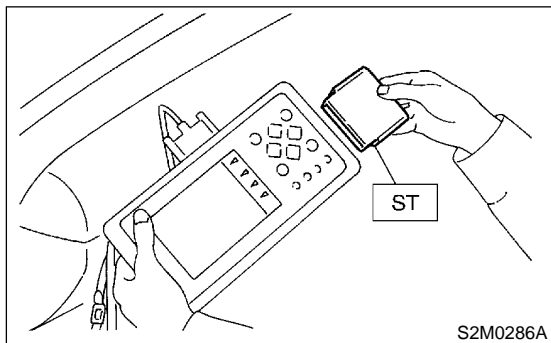
- 4) When using Subaru Select Monitor;
- (1) Turn ignition switch to OFF.
  - (2) Loosen throttle position sensor holding screws.



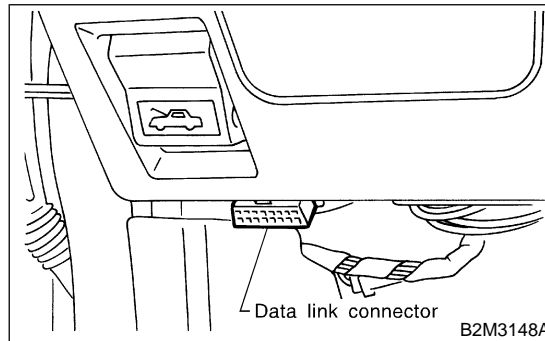
**NOTE:**

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

- (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**

- 11) Tighten throttle position sensor holding screws.

**Tightening torque:**

**1.6 N·m (0.16 kgf·m, 1.2 ft·lb)**

