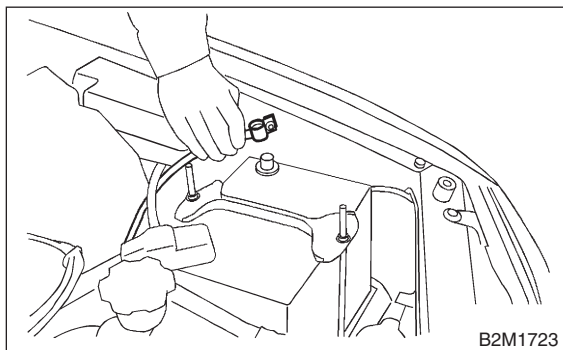


8. Throttle Position Sensor S105039

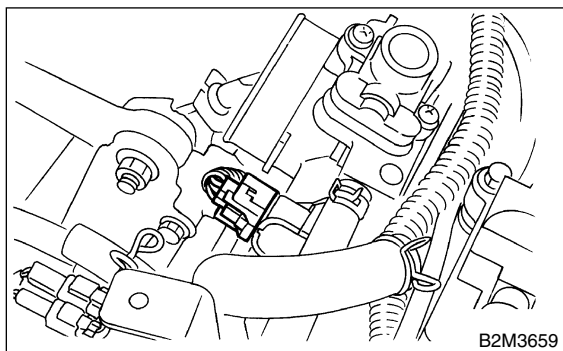
A: REMOVAL S105039A18

1. 2200 cc MODELS S105039A1803

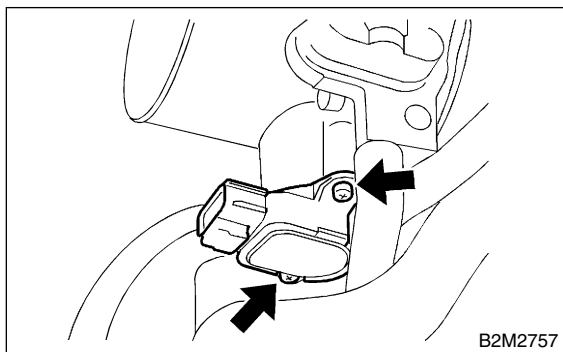
- 1) Disconnect battery ground cable.



- 2) Disconnect connector from throttle position sensor.

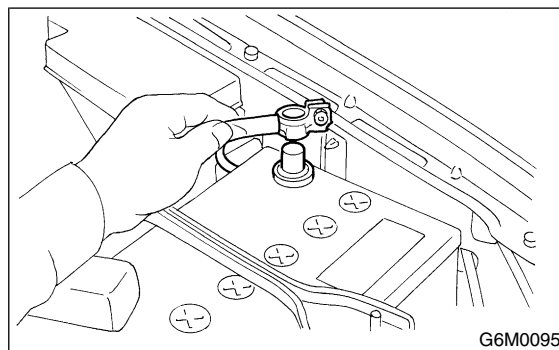


- 3) Remove throttle position sensor holding screws, and remove throttle position sensor itself.

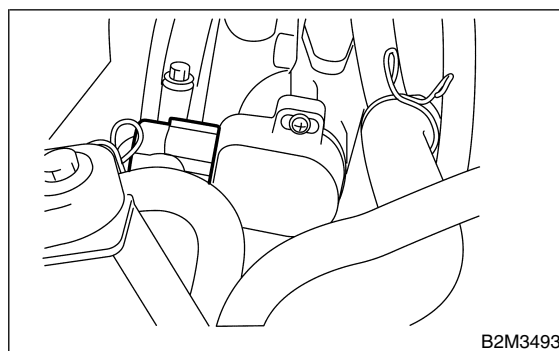


2. 2500 cc MODELS S105039A1804

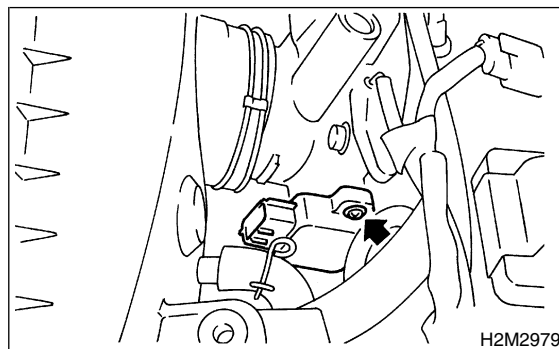
- 1) Disconnect battery ground cable.



- 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

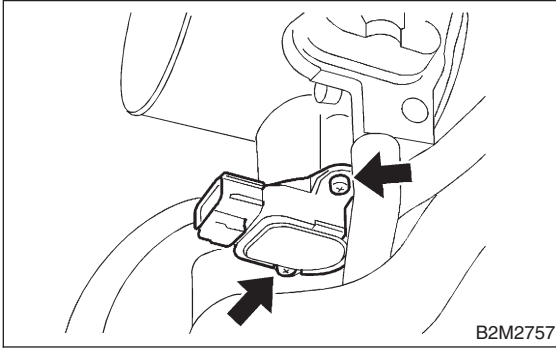
Install in the reverse order of removal.

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

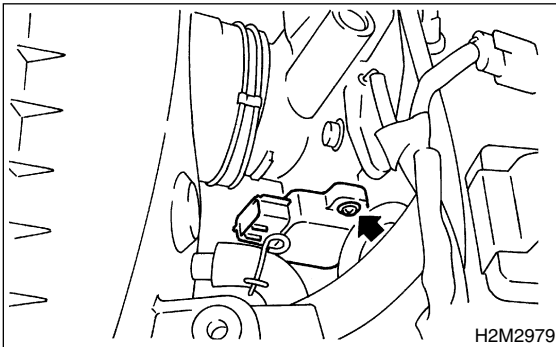
Install in the reverse order of removal.

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.

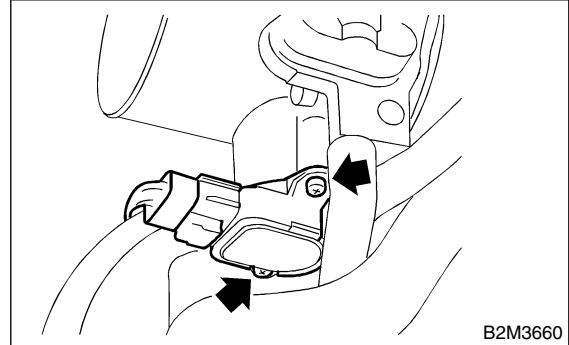


C: ADJUSTMENT S105039A01

1. 2200 cc MODELS S105039A0103

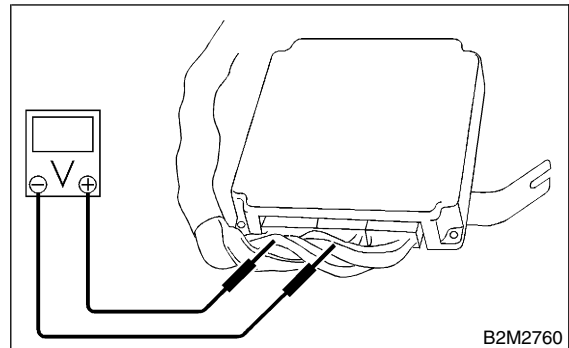
2200 cc models

- 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.

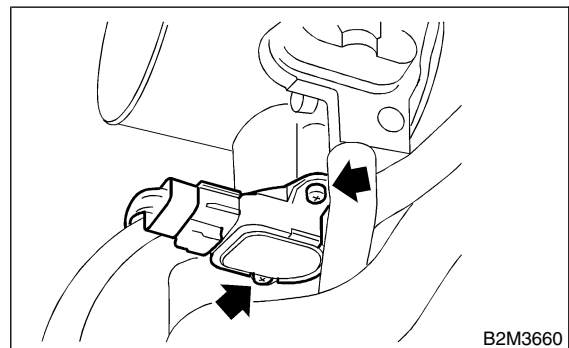
Connector & terminal / Specified voltage
(B136) No. 15 — (B136) No. 17 / 0.45 — 0.55 V
[Fully closed.]



- (4) Tighten throttle position sensor holding screws.

Tightening torque:

2.2 N·m (0.22 kgf-m, 1.6 ft-lb)

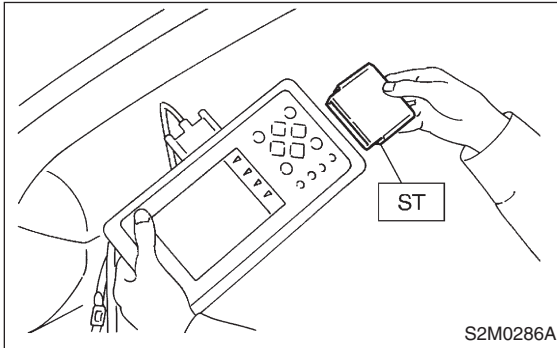


4) When using Subaru Select Monitor;

NOTE:

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

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



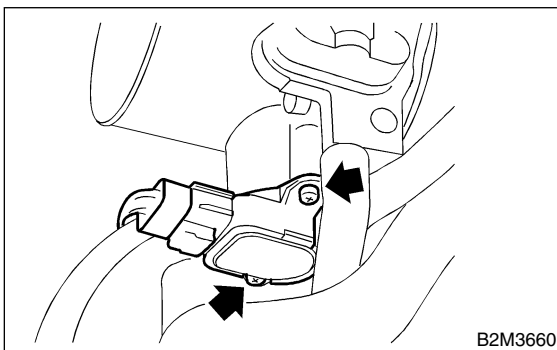
- (2) Connect Subaru Select Monitor to the data link connector.
- (3) Turn ignition switch to ON, and Subaru Select Monitor switch to ON.
- (4) Select {2. Each System Check} in Main Menu.
- (5) Select {Engine Control System} in Selection Menu.
- (6) Select {1. Current Data Display & Save} in EGI/EMPI 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:

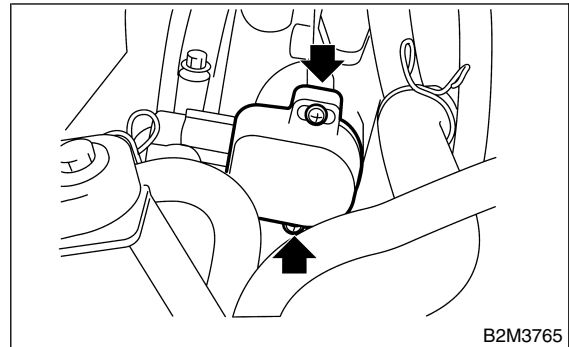
2.2 N·m (0.22 kgf-m, 1.6 ft-lb)



2. 2500 cc MODELS S105039A0104

2500 cc models

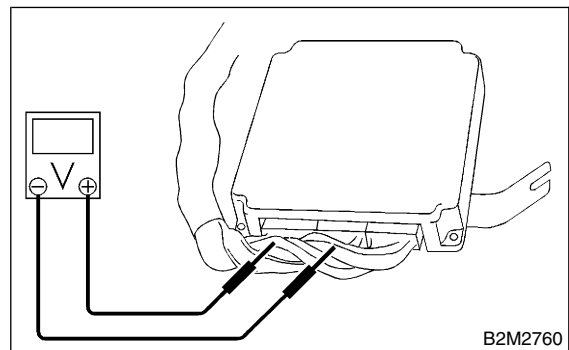
- 1) Turn ignition switch to OFF.
- 2) Loosen throttle position sensor holding screws.



- 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.

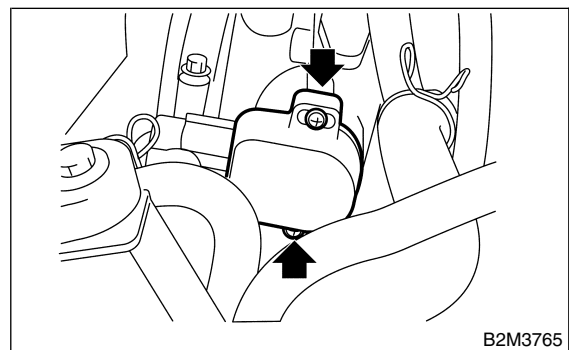
Connector & terminal / Specified voltage
(B136) No. 15 — (B136) No. 17 / 0.45 —
0.55 V
[Fully closed.]



- (4) Tighten throttle position sensor holding screws.

Tightening torque:

2.2 N·m (0.22 kgf-m, 1.6 ft-lb)



THROTTLE POSITION SENSOR

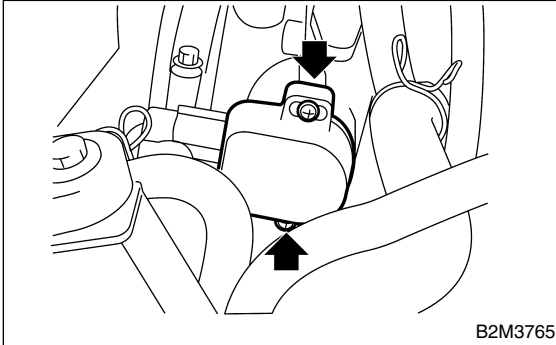
Fuel Injection (Fuel Systems)

4) When using Subaru Select Monitor;

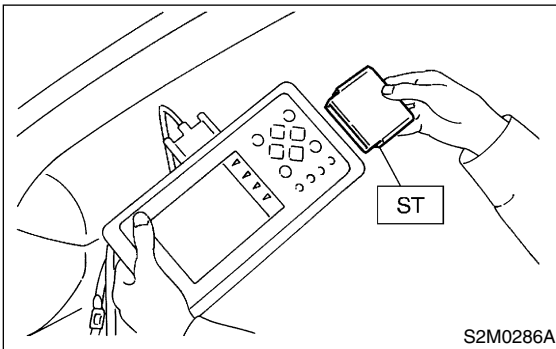
NOTE:

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