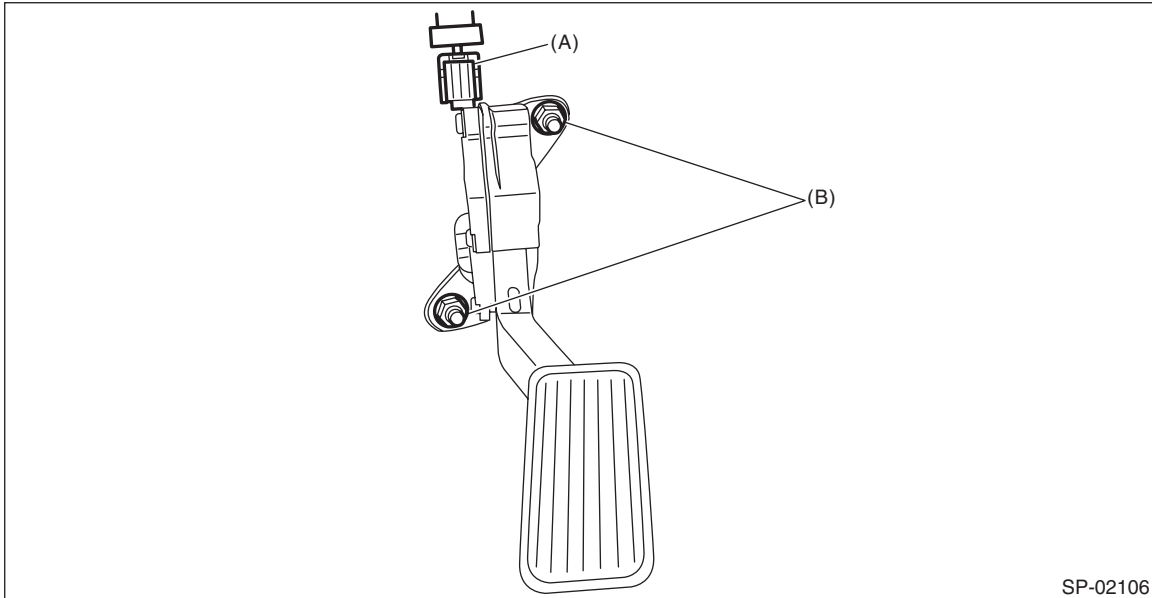


## 2. Accelerator Pedal

### A: REMOVAL

- 1) Disconnect the ground cable from battery.
- 2) Disconnect the connector (A).
- 3) Remove the nut (B) securing accelerator pedal assembly, and remove the accelerator pedal assembly.



SP-02106

### B: INSTALLATION

Install in the reverse order of removal.

#### ***Tightening torque:***

***7.5 N·m (0.8 kgf-m, 5.5 ft-lb)***

### C: DISASSEMBLY

NOTE:

The accelerator pedal cannot be disassembled.

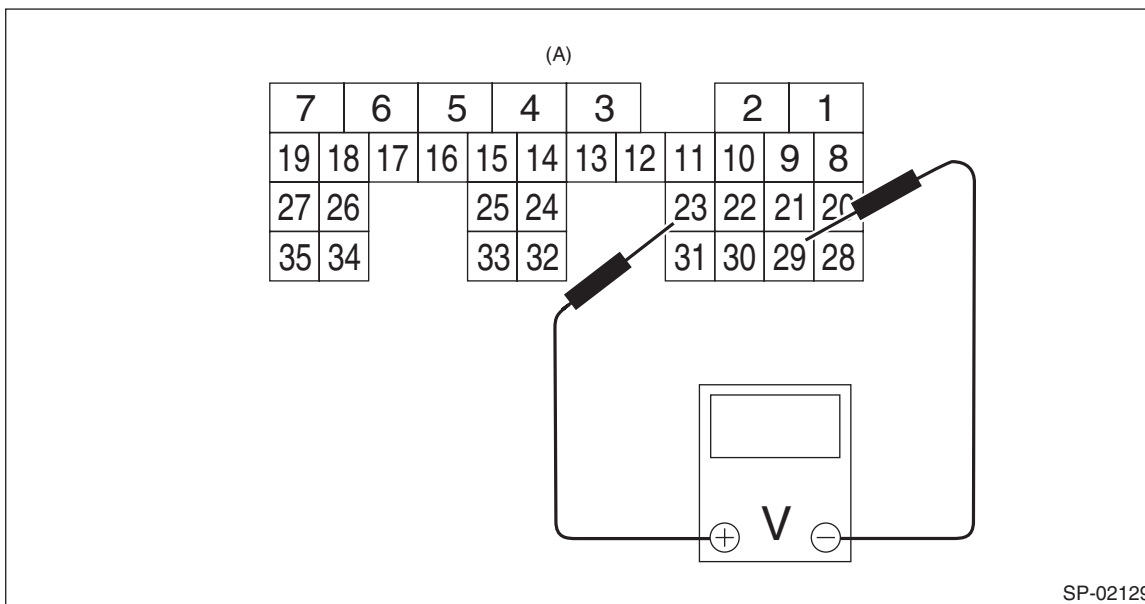
## D: INSPECTION

### 1. CHECK ACCELERATOR PEDAL SENSOR AREA (METHOD WITH CIRCUIT TESTER)

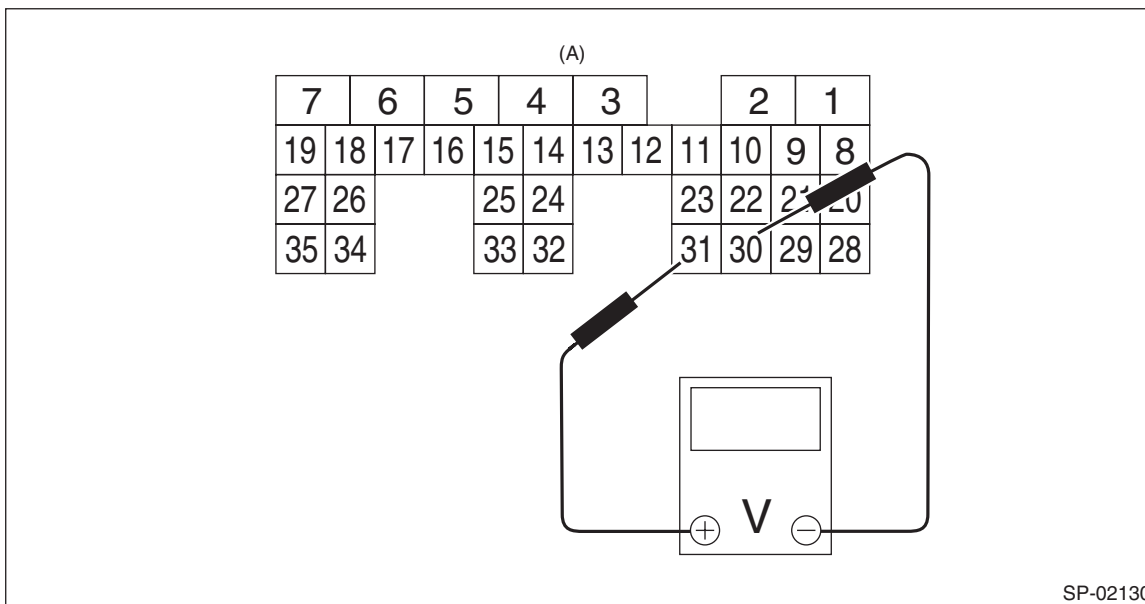
#### • Non-turbo model

- 1) Remove the glove box. <Ref. to EI-61, REMOVAL, Glove Box.>
- 2) Turn the ignition switch to ON. (engine OFF)
- 3) Measure the voltage between ECM connector terminals.

Main sensor side



Sub sensor side



(A) To ECM connector

| Accelerator pedal sensor | Accelerator pedal           | Terminal No.      | Standard    |
|--------------------------|-----------------------------|-------------------|-------------|
| Main                     | Not depressed (full closed) | 23 (+) and 29 (-) | 0.4 — 1.0 V |
|                          | Depressed (full opened)     |                   | 2.4 — 3.7 V |
| Sub                      | Not depressed (full closed) | 31 (+) and 30 (-) | 0.3 — 1.1 V |
|                          | Depressed (full opened)     |                   | 2.3 — 3.8 V |

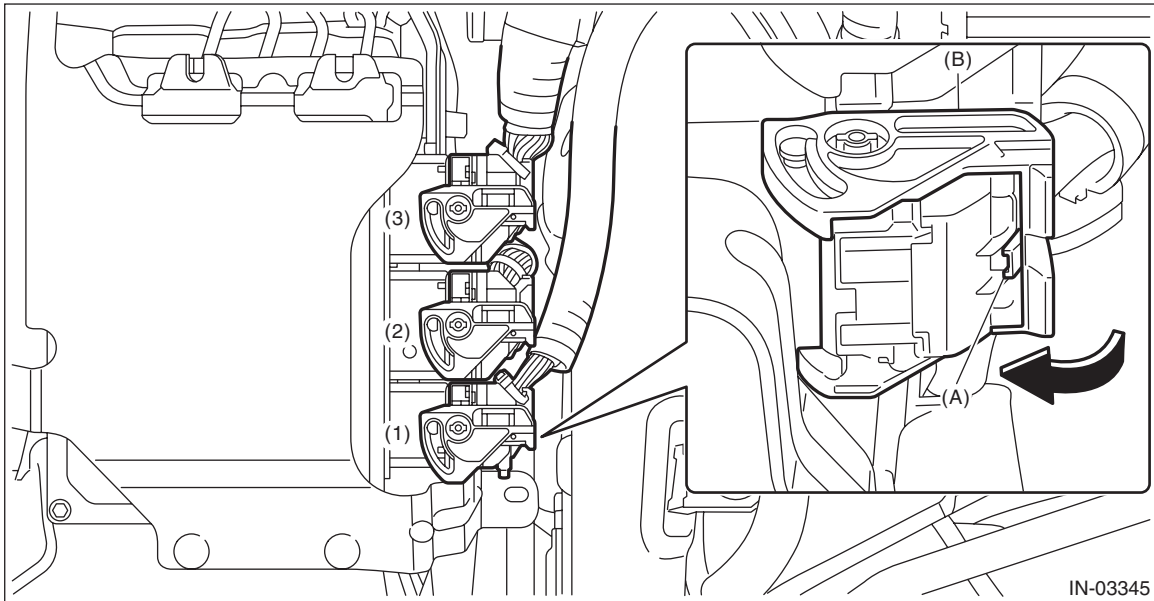
- 4) After inspection, install the related parts in the reverse order of removal.

# Accelerator Pedal

## SPEED CONTROL SYSTEMS

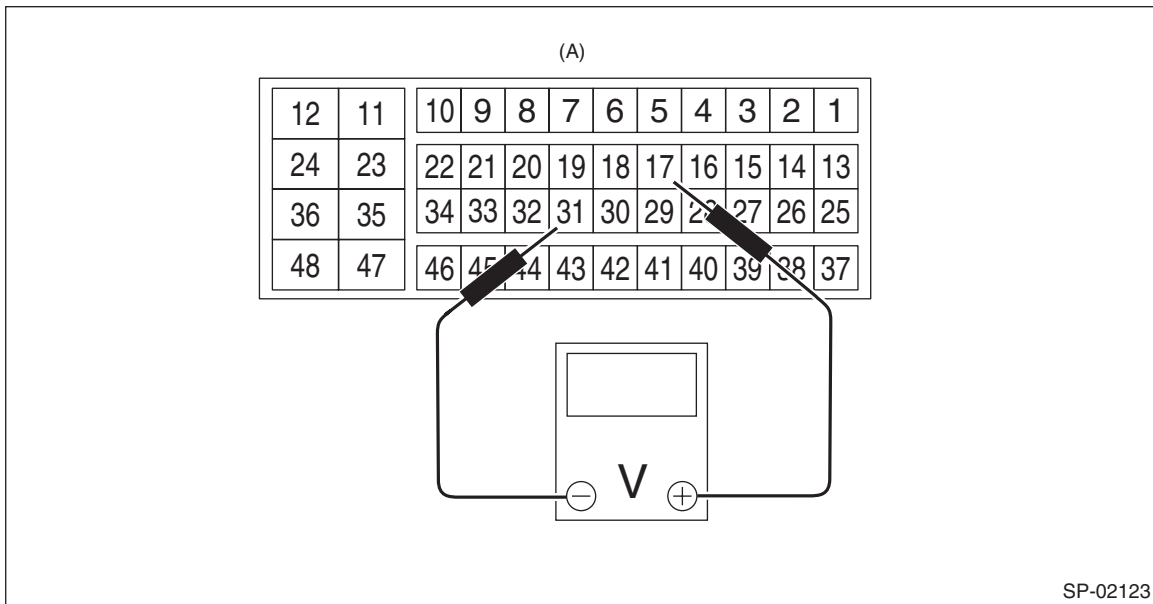
### • Turbo model

- 1) Disconnect the ground cable from battery.
- 2) While pressing the area (A) shown in the figure, move the lock lever (B) in the direction of the arrow to disconnect the connectors from ECM.

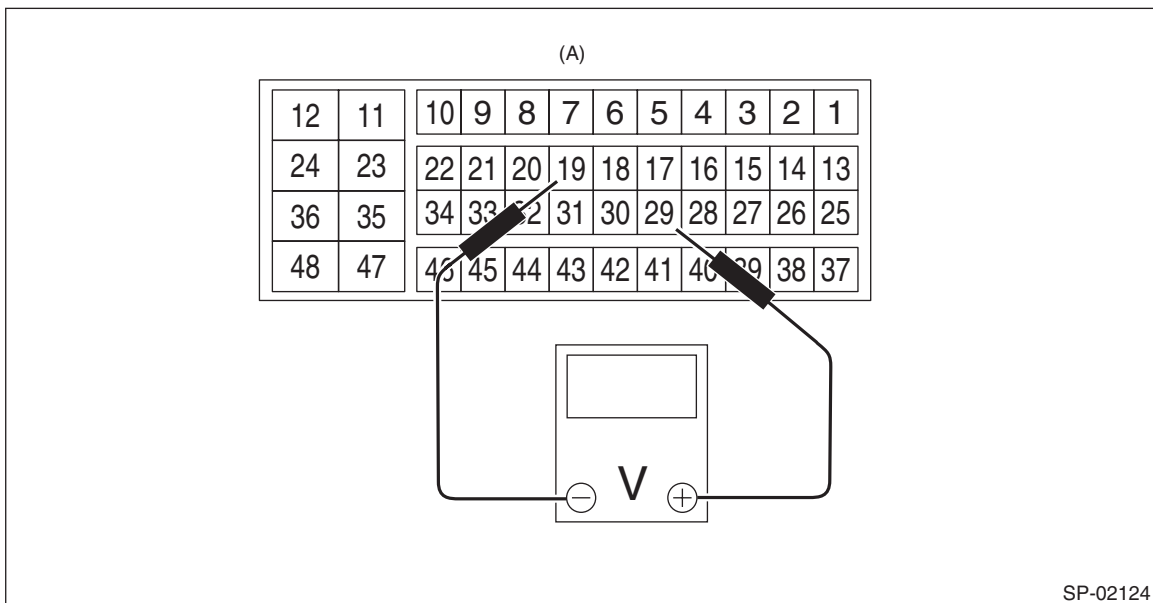


- 3) Install the special tool between the ECM and body harness and the engine harness. <Ref. to EN(H4DOTC)(diag)-6, CAUTION, General Description.>  
ST 18460AA030 CHECK BOARD
- 4) Connect the ground cable to battery.
- 5) Turn the ignition switch to ON. (engine OFF)

6) Measure the voltage between ECM connector terminals using ST.  
Main sensor side



Sub sensor side



(A) To the check board connector  
(ECM connector)

| Accelerator pedal sensor | Accelerator pedal           | Terminal No.      | Standard    |
|--------------------------|-----------------------------|-------------------|-------------|
| Main                     | Not depressed (full closed) | 17 (+) and 31 (-) | 0.4 — 1.0 V |
|                          | Depressed (full opened)     |                   | 2.4 — 3.7 V |
| Sub                      | Not depressed (full closed) | 29 (+) and 19 (-) | 0.4 — 1.0 V |
|                          | Depressed (full opened)     |                   | 2.4 — 3.7 V |

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

# Accelerator Pedal

## SPEED CONTROL SYSTEMS

### 2. CHECK ACCELERATOR PEDAL SENSOR AREA (METHOD WITH SUBARU SELECT MONITOR)

- 1) Turn the ignition switch to ON. (engine OFF)
- 2) Read the accelerator pedal opening angle signal and voltage of accelerator pedal sensor using Subaru Select Monitor. <Ref. to EN(H4DO)(diag)-36, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.> <Ref. to EN(H4DOTC)(diag)-37, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.>

- Non-turbo model

| Accelerator pedal sensor | Accelerator pedal opening angle signal | Standard    |
|--------------------------|----------------------------------------|-------------|
| Main                     | 0.0%                                   | 0.4 — 1.0 V |
|                          | 100.0%                                 | 2.4 — 3.7 V |
| Sub                      | 0.0%                                   | 0.3 — 1.1 V |
|                          | 100.0%                                 | 2.3 — 3.8 V |

- Turbo model

| Accelerator pedal sensor | Accelerator pedal opening angle signal | Standard    |
|--------------------------|----------------------------------------|-------------|
| Main                     | 0.0%                                   | 0.4 — 1.0 V |
|                          | 100.0%                                 | 2.4 — 3.7 V |
| Sub                      | 0.0%                                   | 0.4 — 1.0 V |
|                          | 100.0%                                 | 2.4 — 3.7 V |

### 3. OTHER INSPECTIONS

- 1) Check that the accelerator pedal does not have deformation, cracks or damage.
- 2) Check for smooth operation when the accelerator pedal is depressed.
- 3) Check if the accelerator pedal returns to its original position smoothly when the pedal is released.

IGNITION

*IG(H4DO)*

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