

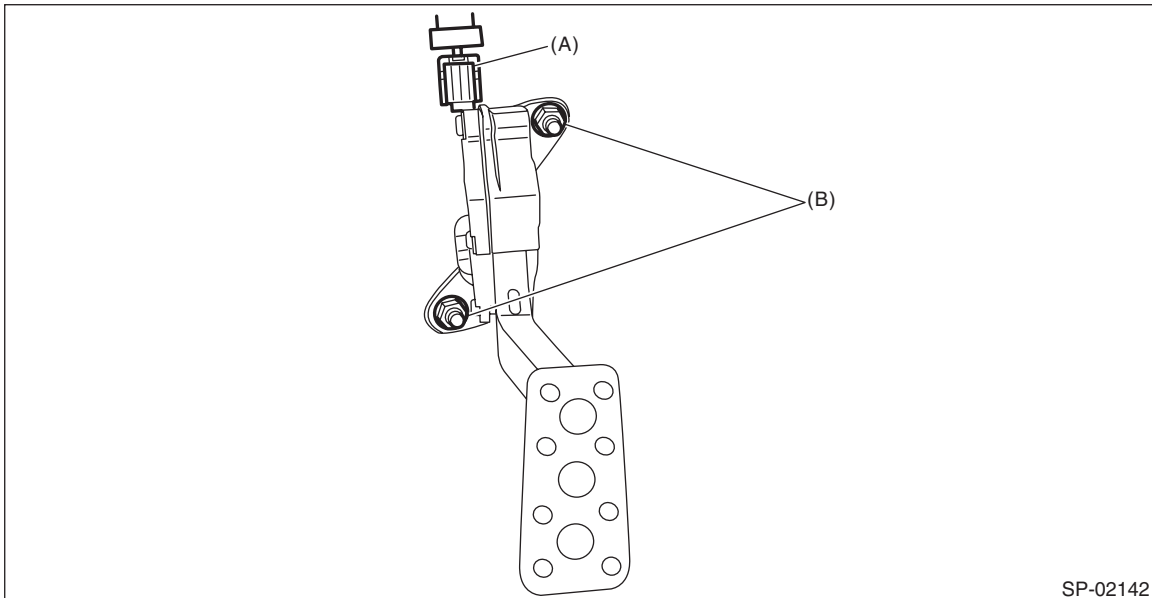
Accelerator Pedal

SPEED CONTROL SYSTEMS

2. Accelerator Pedal

A: REMOVAL

- 1) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 2) Disconnect the connector (A).
- 3) Remove the nut (B) securing accelerator pedal assembly, and remove the accelerator pedal assembly.



SP-02142

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.

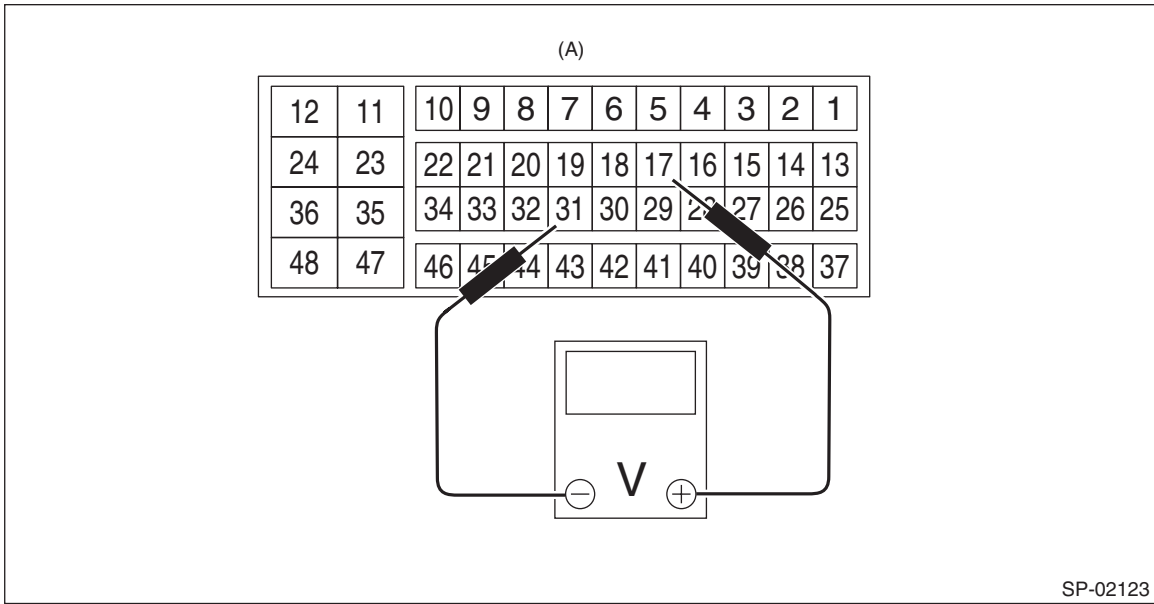
D: INSPECTION

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

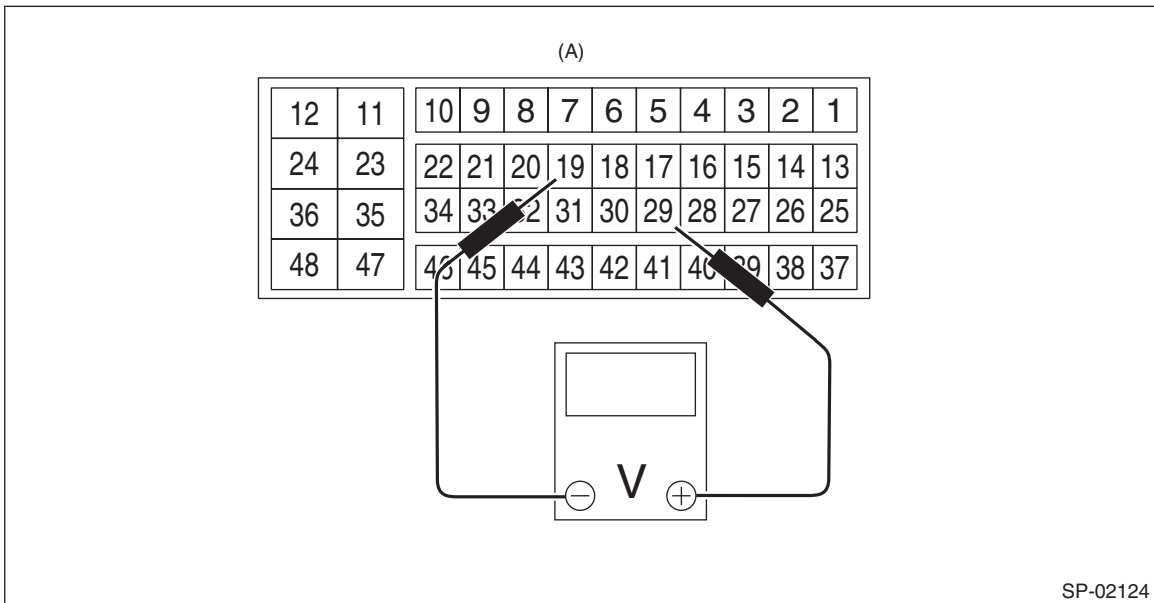
- 1) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 2) Remove the ECM. <Ref. to FU(w/o STI)-132, REMOVAL, Engine Control Module (ECM).>
- 3) Install the ST between the ECM and bulkhead harness and the engine harness. <Ref. to EN(w/o STI)(diag)-6, CAUTION, General Description.>
ST 18460AA030 CHECK BOARD
- 4) Connect the ground terminal to battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 5) Turn the ignition switch to ON. (engine OFF)

Accelerator Pedal

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(w/o STI)(diag)-37, DISPLAY CURRENT ENGINE DATA, OPERATION, Subaru Select Monitor.>

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(w/o STI)

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