

# **SPEED CONTROL SYSTEMS**

## General Description

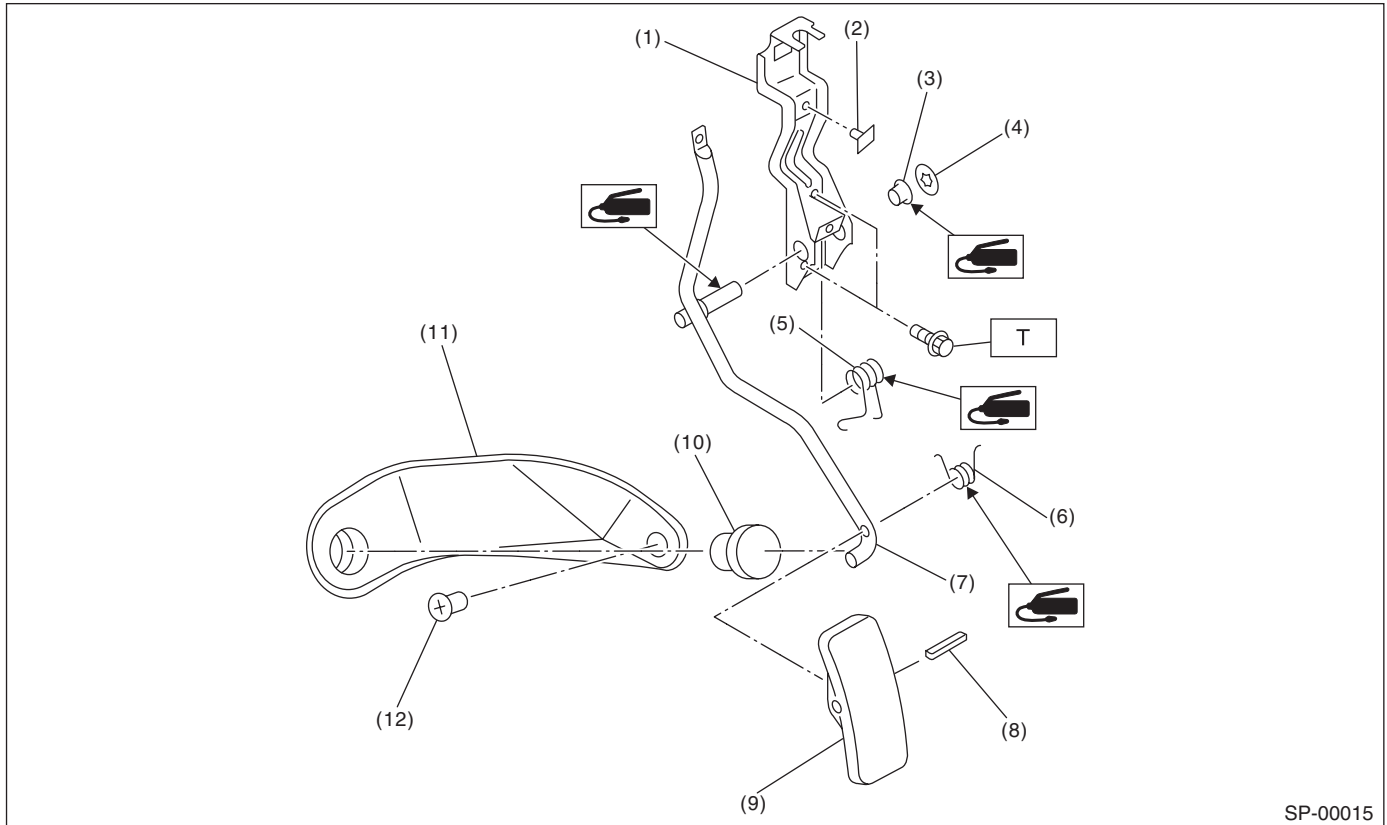
### SPEED CONTROL SYSTEMS

## 1. General Description

### A: SPECIFICATION

Accelerator pedal	Free play	At pedal pad	0 — 4 mm (0 — 0.16 in)
	Stroke	At pedal pad	52 — 57 mm (2.05 — 2.24 in)

### B: COMPONENT



SP-00015

- |                         |                              |                        |
|-------------------------|------------------------------|------------------------|
| (1) Accelerator bracket | (6) Accelerator pedal spring | (11) Accelerator plate |
| (2) Stopper             | (7) Accelerator pedal lever  | (12) Clip              |
| (3) Bushing             | (8) Spring pin               |                        |
| (4) Clip                | (9) Accelerator pedal        |                        |
| (5) Accelerator spring  | (10) Accelerator stopper     |                        |

**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 18 (1.8, 13.0)**

### C: CAUTION

- Wear work clothing, including a cap, protective goggles, and protective shoes during operation.
- Remove contamination, including dirt and corrosion, before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.
- Be careful not to burn your hands, because each part in the vehicle is hot after running.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.

- Before disconnecting electrical connectors of sensors or units, be sure to disconnect the ground cable from battery.

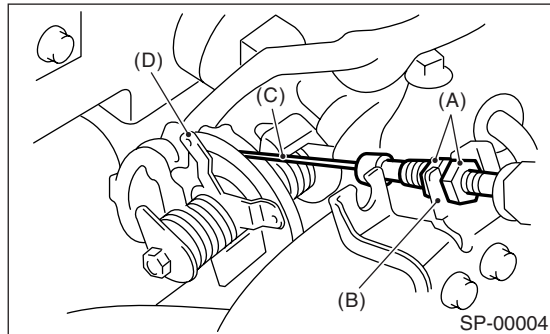
## 2. Accelerator Pedal

### A: REMOVAL

- 1) Disconnect the ground cable from battery.
- 2) Remove the lock nut from accelerator cable bracket.
- 3) Separate the accelerator cable from bracket.
- 4) Remove the accelerator cable end from throttle cam.

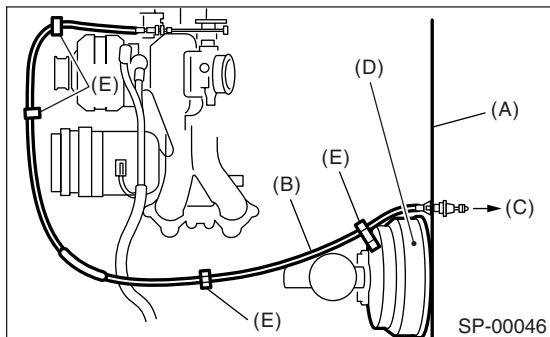
#### NOTE:

Be careful not to kink the accelerator cable.



- (A) Lock nut
- (B) Accelerator cable bracket
- (C) Accelerator cable
- (D) Throttle cam

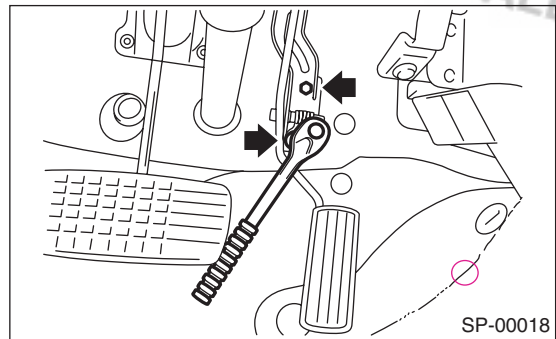
- 5) Remove the clip inside engine compartment.



- (A) Toe board
- (B) Accelerator cable
- (C) To accelerator pedal
- (D) Brake booster
- (E) Clip

- 6) Remove the instrument panel lower cover from instrument panel.

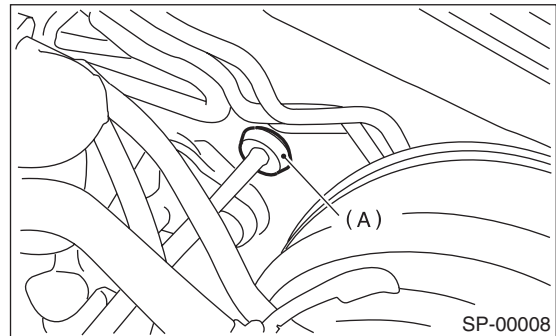
- 7) Remove the accelerator pedal connecting bolt from accelerator pedal bracket.



- 8) Disconnect the grommet from toe board.

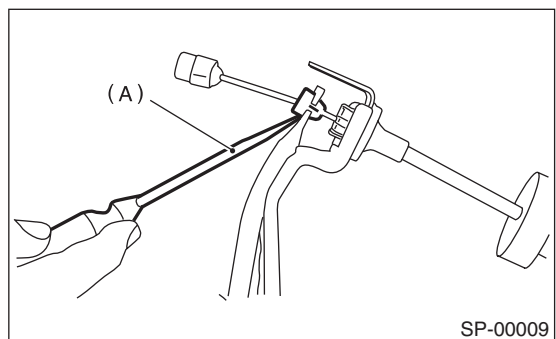
#### NOTE:

From inside compartment, push the grommet (A) into hole.



- 9) Pull out the cable from toe board hole.

- 10) Disconnect the accelerator cable bushing from accelerator pedal lever.

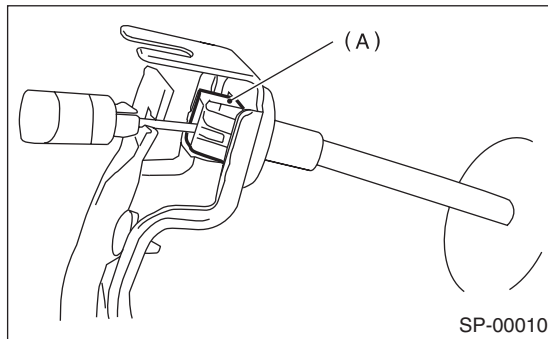


- (A) Flat tip screwdriver

## Accelerator Pedal

### SPEED CONTROL SYSTEMS

11) Disconnect the accelerator cable stopper (A) from bracket.



12) Separate the accelerator cable and bracket.

### B: INSTALLATION

1) Install in the reverse order of removal.

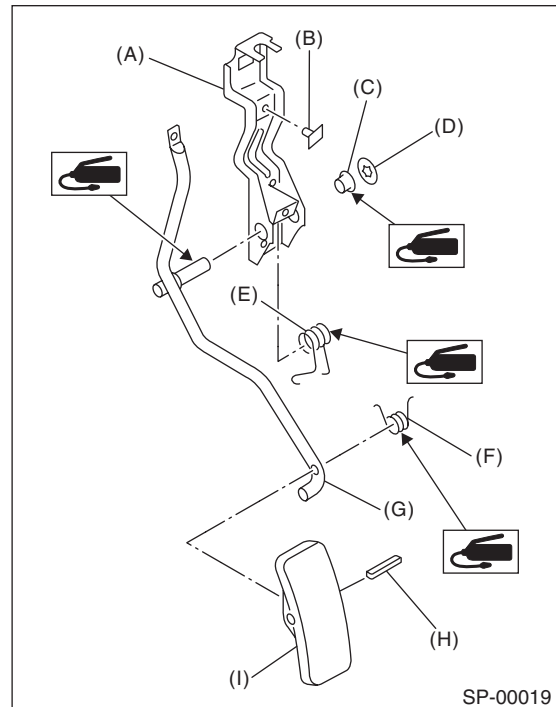
#### NOTE:

- If the cable clamp is damaged, replace it with a new one.
  - Never fail to cover the outer cable end with boot.
  - Be careful not to kink the accelerator cable.
  - For tightening torque, refer to "COMPONENT".
- <Ref. to SP(H4DOTC)-2, COMPONENT, General Description.>

2) After the installation, adjust the pedal. <Ref. to SP(H4DOTC)-5, ADJUSTMENT, Accelerator Pedal.>

### C: DISASSEMBLY

- 1) Remove the clip, and then remove the accelerator pedal lever from bracket.
- 2) Pull out the spring pin, and then remove the accelerator pedal from accelerator pedal lever.



- (A) Accelerator bracket
- (B) Stopper
- (C) Bushing
- (D) Clip
- (E) Accelerator spring
- (F) Accelerator pedal spring
- (G) Accelerator pedal lever
- (H) Spring pin
- (I) Accelerator pedal

### D: ASSEMBLY

Assemble in the reverse order of disassembly.

#### NOTE:

Clean and apply grease to the portions indicated in the figure.

#### Grease:

**SUNLIGHT No. 2 (Part No. 003602010)**

### E: INSPECTION

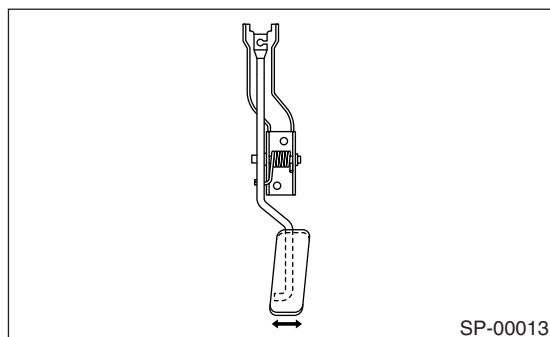
#### 1. ACCELERATOR PEDAL

- 1) Lightly move the pedal pad in lateral direction to ensure that pedal deflection is in specified range.
- 2) If excessive deflection is noted, replace the bushing and clip with new ones.

#### **Deflection of accelerator pedal:**

##### **Service limit**

**2.0 mm (0.079 in) or less**



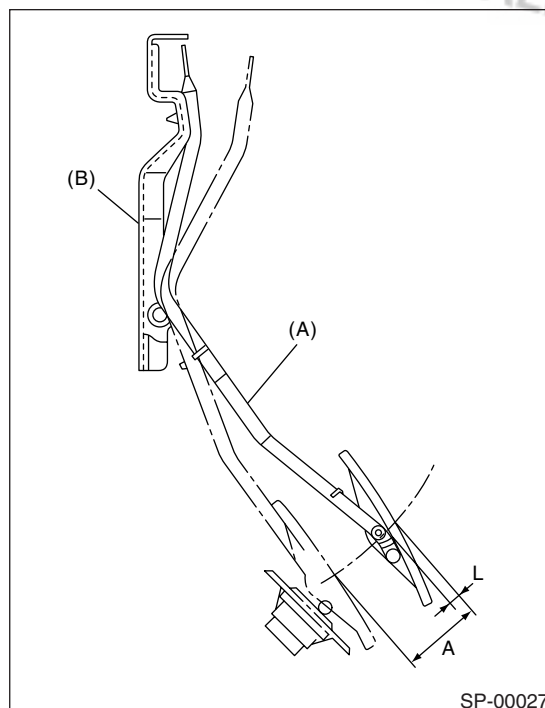
### F: ADJUSTMENT

- 1) Check the pedal stroke and free play by operating the accelerator pedal by hand.
- 2) If it is not within specified value, adjust it by turning the nut connecting the accelerator cable to throttle body.

#### **Free play at pedal pad L:**

**0 — 4 mm (0 — 0.16 in)**

**Stroke at pedal pad A:**  
**52 — 57 mm (2.05 — 2.24 in)**



(A) Accelerator pedal

(B) Accelerator pedal bracket

**Accelerator cable lock nut tightening torque:**  
**12 N·m (1.2 kgf-m, 9 ft-lb)**

### 3. Accelerator Control Cable

#### A: REMOVAL

- 1) Remove the accelerator pedal.  
<Ref. to SP(H4DOTC)-3, REMOVAL, Accelerator Pedal.>
- 2) Separate the accelerator cable and accelerator pedal.

#### B: INSTALLATION

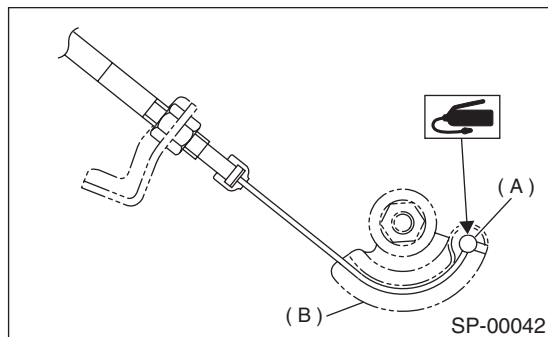
- 1) Install in the reverse order of removal.

##### NOTE:

- If the cable clamp is damaged, replace it with a new one.
  - Never fail to cover the outer cable end with boot.
  - Be careful not to kink the accelerator cable.
  - Do not apply grease to except specified part.
- 2) Apply grease to engine side accelerator cable end.

##### Grease:

**Silicolube G-30M (Part No. 004404002)**



- (A) Accelerator cable end  
(B) Throttle cam

- 3) After installation, adjust the pedal. <Ref. to SP(H4DOTC)-5, ADJUSTMENT, Accelerator Pedal.>

#### C: INSPECTION

- 1) Make sure the inner cable is not twisted or worn.
- 2) Make sure the outer cable is not cracked.