

SPEED CONTROL SYSTEMS

SP(H4SO)

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GENERAL DESCRIPTION

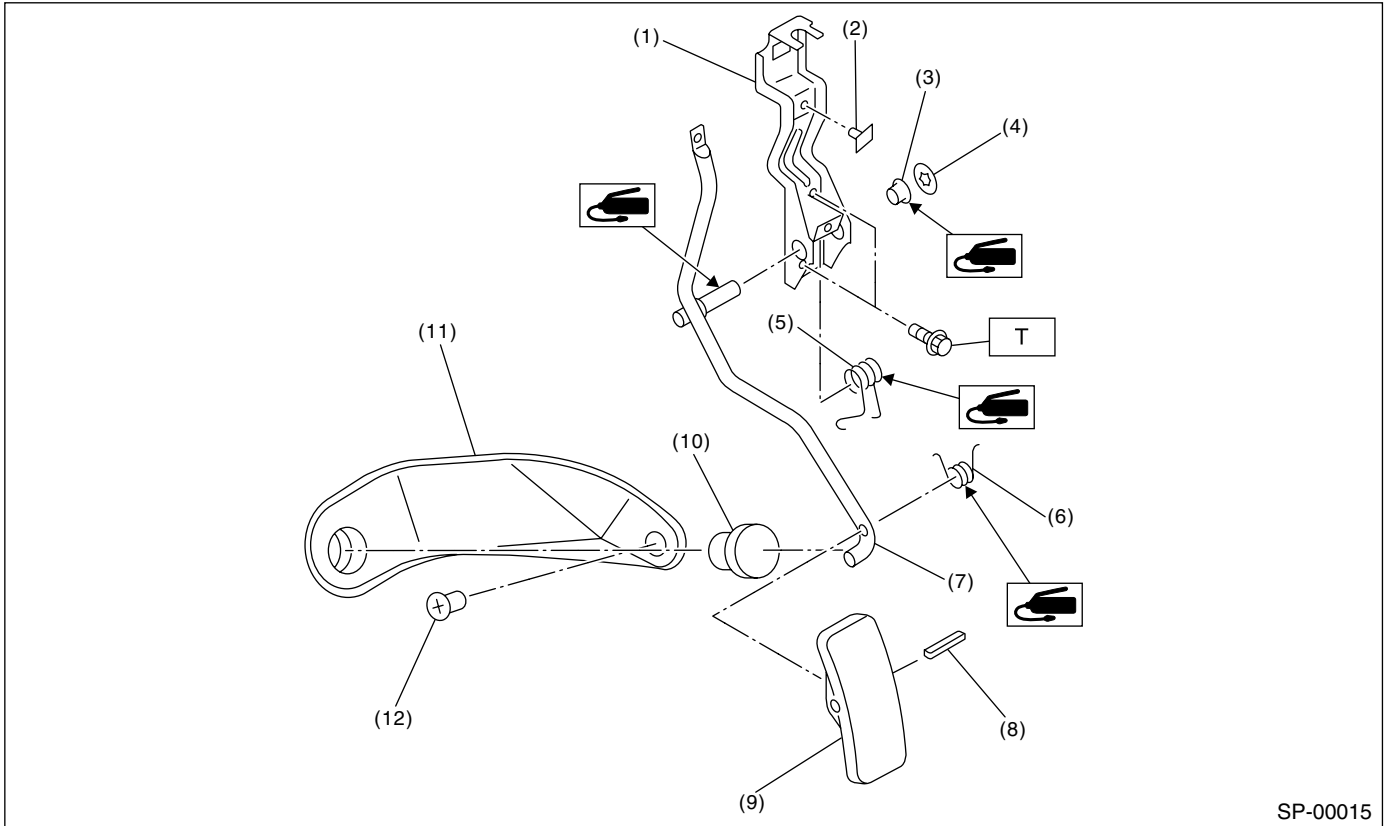
SPEED CONTROL SYSTEMS

1. General Description

A: SPECIFICATION

Accelerator pedal	Free play	At pedal pad	0 — 4 mm (0.04 — 0.16 in)
	Stroke	At pedal pad	50 — 55 mm (1.97 — 2.17 in)

B: COMPONENT



- | | | |
|-------------------------|------------------------------|------------------------|
| (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 safety stands at the specified points.
- Before disconnecting electrical connectors of sensors or units, be sure to disconnect ground cable from battery.

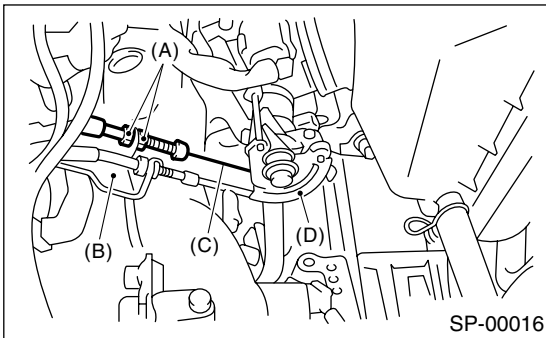
2. Accelerator Pedal

A: REMOVAL

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

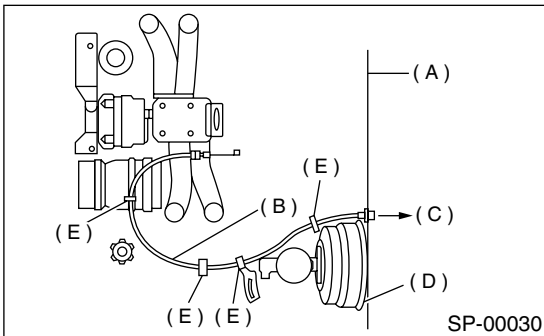
NOTE:

Be careful not to kink accelerator cable.



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

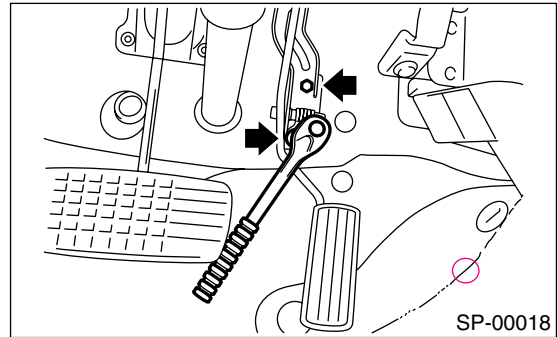
- 5) Remove clip inside engine compartment.



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

- 6) Remove instrument panel lower cover from instrument panel, and connector.

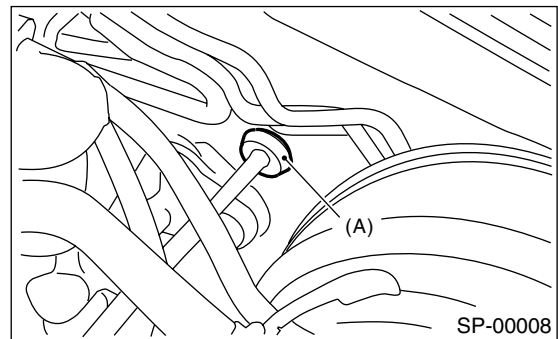
- 7) Remove accelerator pedal connecting bolt from accelerator pedal bracket.



- 8) Disconnect grommet (A) from toe board.

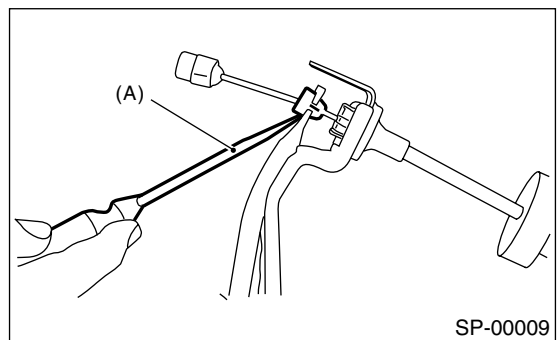
NOTE:

From engine room side, push grommet (A) into hole.



- (A) Grommet

- 9) Pull out the cable from the toe board hole.
- 10) Disconnect accelerator cable bushing from accelerator pedal lever.

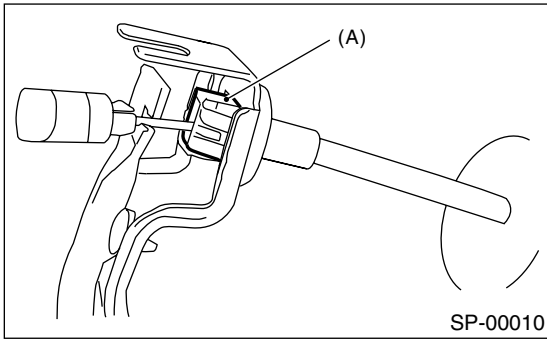


- (A) Flat-bladed screwdriver

ACCELERATOR PEDAL

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



(A) Accelerator cable stopper

- 12) Remove accelerator cable and bracket.

B: INSTALLATION

- 1) Install in the reverse order of removal.

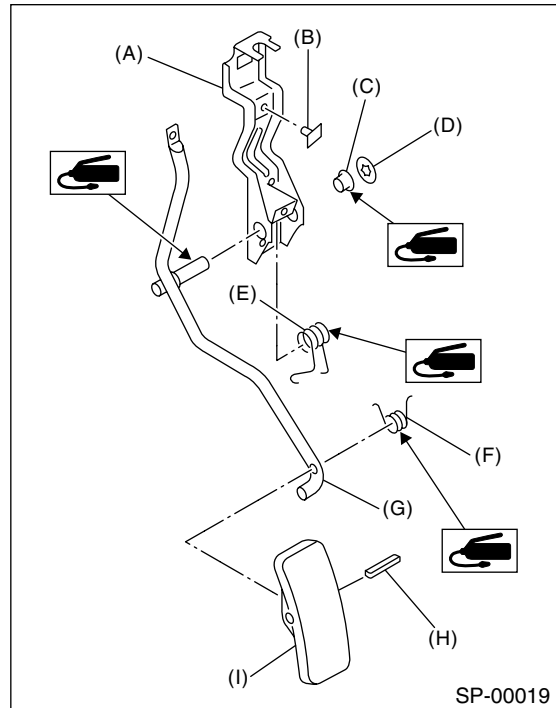
NOTE:

- If cable clamp is damaged, replace it with a new one.
- Never fail to cover outer cable end with boot.
- Be careful not to kink accelerator cable.

- 2) Adjust after pedal installation. <Ref. to SP(H4SO)-5, ADJUSTMENT, Accelerator Pedal.>

C: DISASSEMBLY

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



- (A) 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 areas as shown in the illustration and apply grease.

Grease:

Part No. 003602010 (SUNLIGHT No. 2)

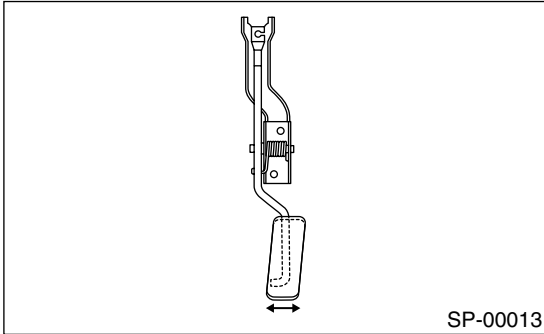
E: INSPECTION

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

Deflection of accelerator pedal:

Service limit

$\pm 2.0 \text{ mm } (\pm 0.079 \text{ in})$ or less



F: ADJUSTMENT

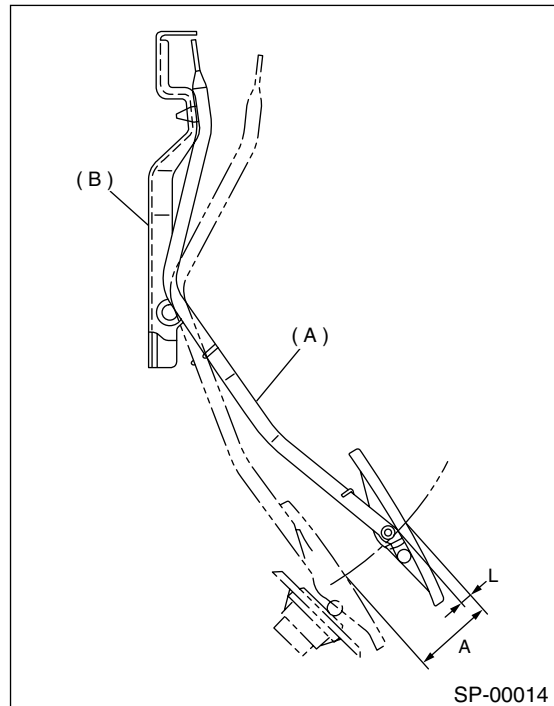
- 1) Check pedal stroke and free play by operating accelerator pedal by hand.
- 2) If it is not within specified value, adjust it by turning accelerator cable lock nut.

Free play at pedal pad: L

$0 - 4 \text{ mm } (0 - 0.16 \text{ in})$

Stroke at pedal pad: A

$50 - 55 \text{ mm } (1.97 - 2.17 \text{ in})$



(A) Accelerator pedal lever

(B) Accelerator pedal bracket

Accelerator cable lock nut tightening torque:

$12 \text{ N}\cdot\text{m } (1.2 \text{ kgf}\cdot\text{m}, 9 \text{ ft}\cdot\text{lb})$

ACCELERATOR CONTROL CABLE

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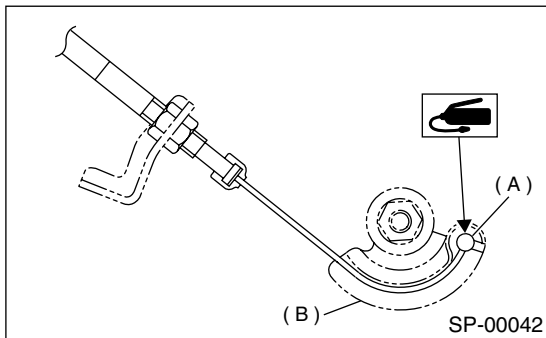
3. Accelerator Control Cable

A: REMOVAL

- 1) Remove accelerator pedal. <Ref. to SP(H4SO)-3, REMOVAL, Accelerator Pedal.>
- 2) Separate accelerator cable and accelerator pedal.

B: INSTALLATION

- 1) Install in the reverse order of removal.
- 2) Apply grease to the point (accelerator cable end on engine side) shown in the figure below.
Part No. 004404002 (Slicolube G-30M)



- (A) Cable end
(B) Throttle cam

CAUTION:

- If cable clamp is damaged, replace it with a new one.
- Never fail to cover outer cable end with boot.
- Be careful not to kink accelerator cable.
- Do not apply grease except for special area.

- 3) Adjustment after pedal installation <Ref. to SP(H4SO)-4, INSTALLATION, Accelerator Pedal.>

C: INSPECTION

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