

SPEED CONTROL SYSTEMS

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GENERAL DESCRIPTION

Speed Control Systems

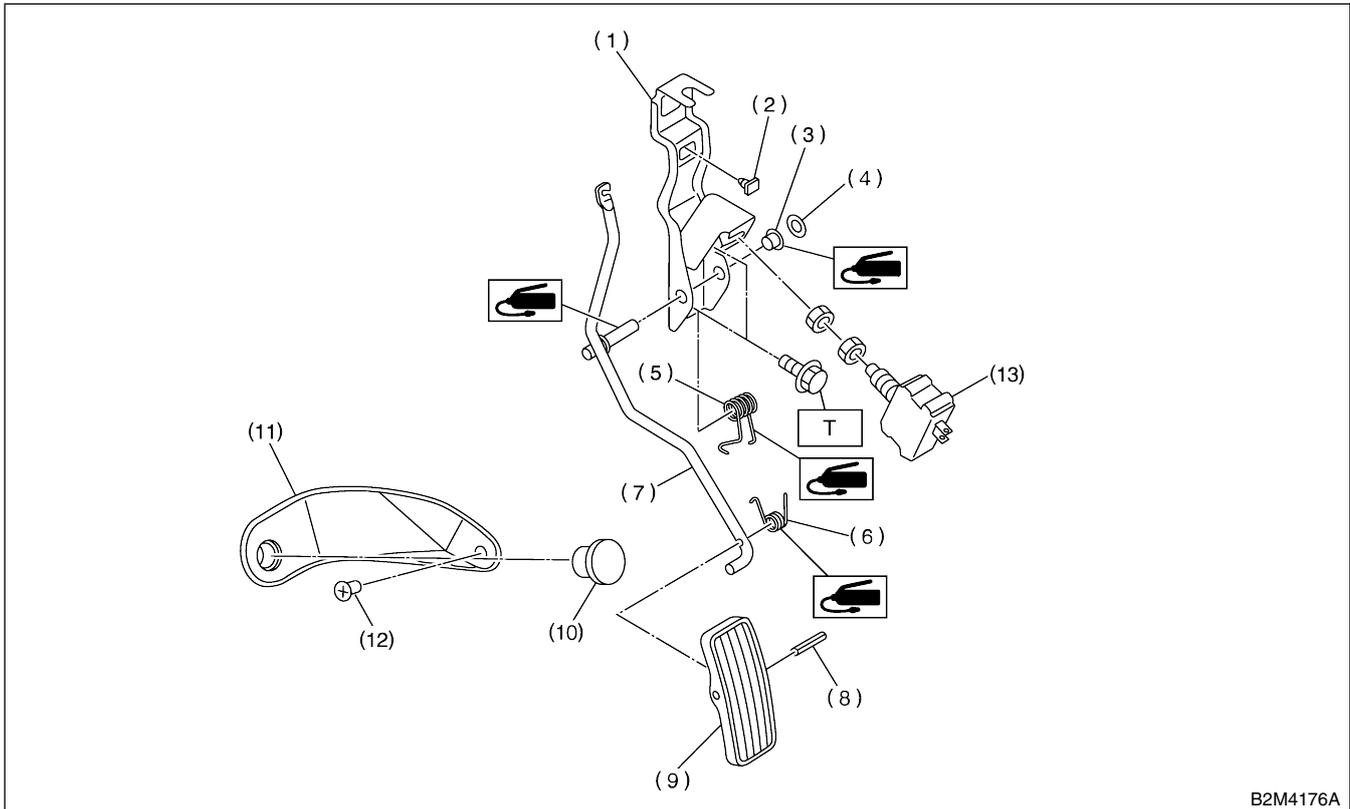
1. General Description S177001

A: SPECIFICATION S177001A22

Accelerator pedal	Free play	At pedal pad	1 — 4 mm (0.04 — 0.16 in)
	Stroke	At pedal pad	50 — 55 mm (1.97 — 2.17 in)

B: COMPONENT S177001A05

1. LHD MODEL S177001A0501



- (1) Accelerator bracket
- (2) Stopper
- (3) Bushing
- (4) Clip
- (5) Accelerator spring
- (6) Accelerator pedal spring

- (7) Accelerator pedal lever
- (8) Spring pin
- (9) Accelerator pedal
- (10) Accelerator stopper
- (11) Accelerator plate
- (12) Clip

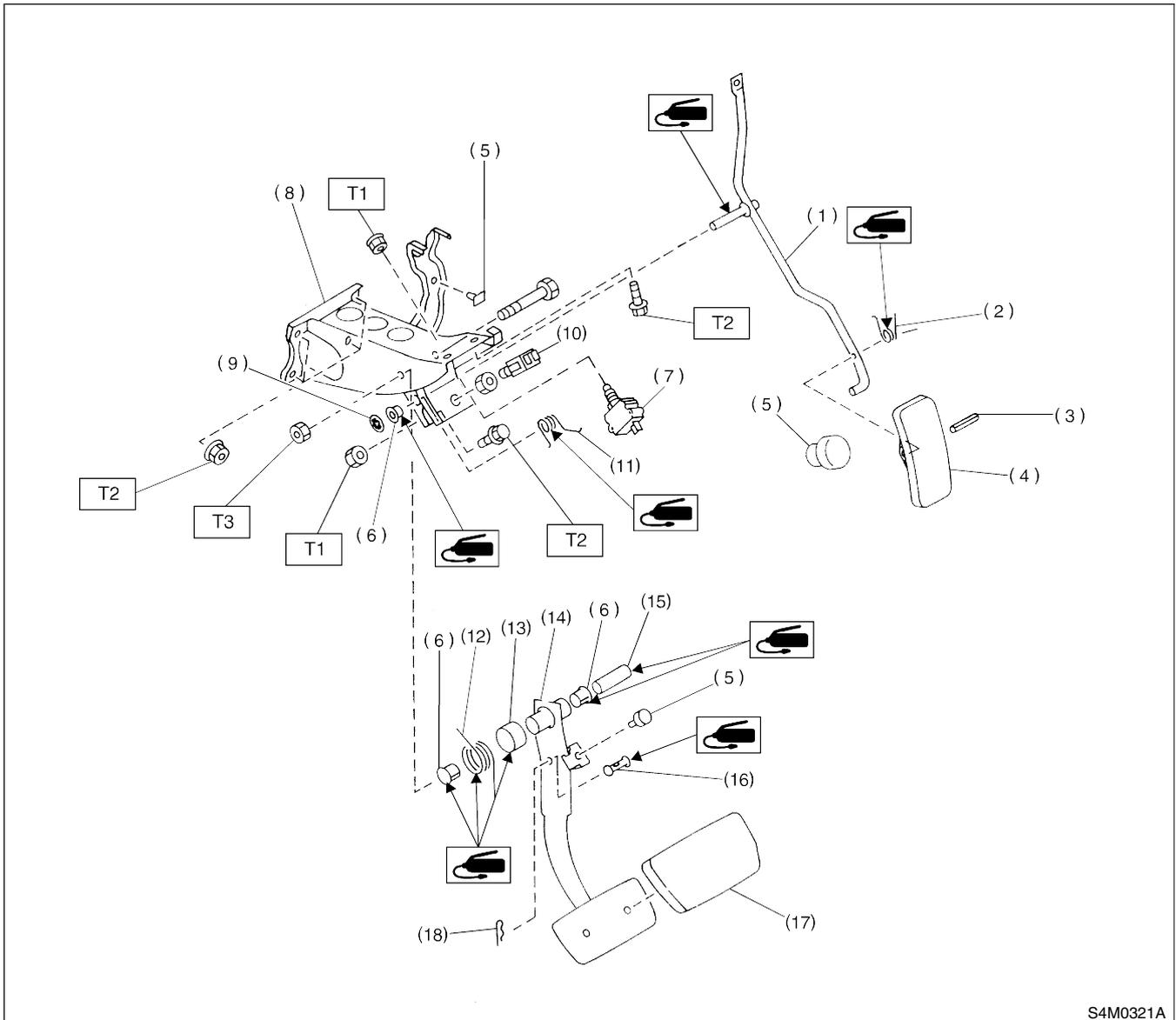
- (13) Kick-down switch (AT model)

Tightening torque: N·m (kgf·m, ft·lb)
T: 18 (1.8, 13.0)

GENERAL DESCRIPTION

Speed Control Systems

2. RHD MODEL S177001A0502



S4M0321A

- (1) Accelerator pedal
- (2) Accelerator pedal spring
- (3) Spring pin
- (4) Accelerator pedal pad
- (5) Stopper
- (6) Bushing
- (7) Kick-down switch
- (8) Pedal bracket

- (9) Clip
- (10) Stop light switch
- (11) Accelerator spring
- (12) Brake pedal spring
- (13) Brake spacer
- (14) Brake pedal
- (15) Spacer
- (16) Clevis pin

- (17) Brake pedal pad
- (18) Snap pin

Tightening torque: N·m (kgf·m, ft·lb)

T1: 8 (0.8, 5.8)

T2: 18 (1.8, 13.0)

T3: 29 (3.0, 21.7)

GENERAL DESCRIPTION

C: CAUTION S177001A03

- 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 negative terminal from battery.

2. Accelerator Pedal S177005

A: REMOVAL S177005A18

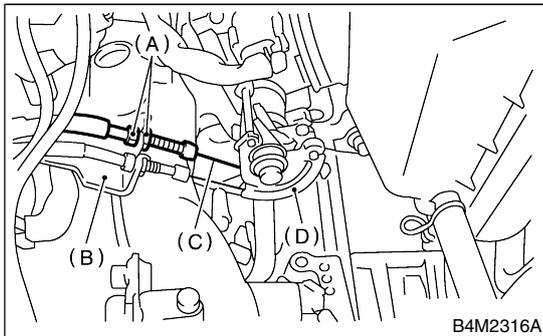
1. LHD MODEL S177005A1801

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

CAUTION:

Be careful not to kink accelerator cable.

● SOHC model



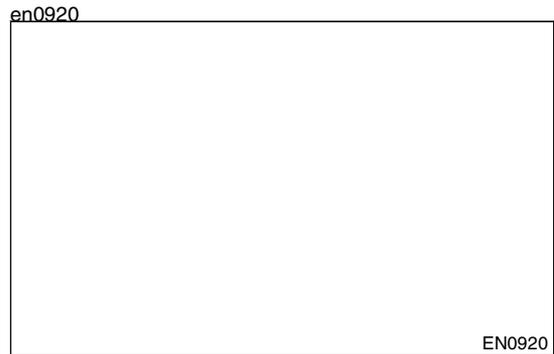
● DOHC TURBO model



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

- 6) Remove clip inside engine compartment.

● SOHC model

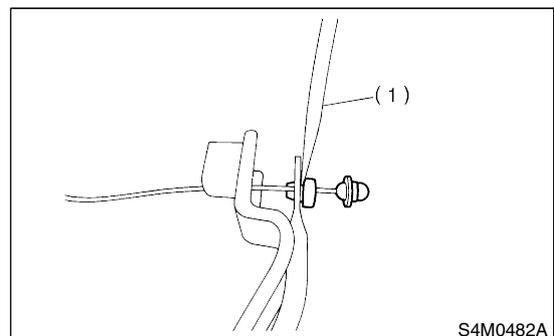


● DOHC TURBO model



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

- 7) Remove instrument panel lower cover from instrument panel, and connector.
- 8) Disconnect connector from kick-down switch. (AT model)
- 9) Remove brake and clutch pedal bracket. <Ref. to BR-54, REMOVAL, Brake Pedal.>
- 10) Disconnect accelerator cable from accelerator pedal lever.

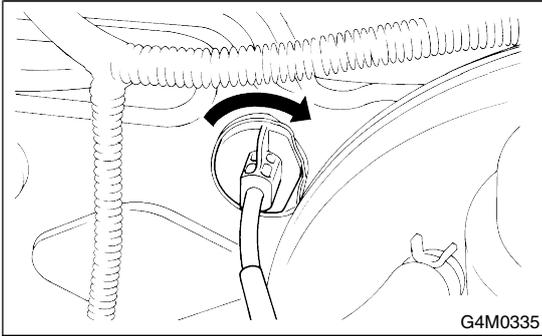


- (1) Slot type screwdriver

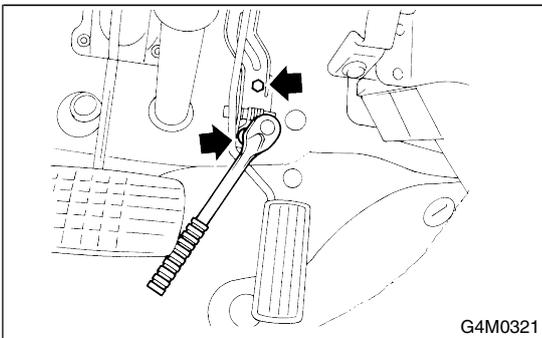
ACCELERATOR PEDAL

Speed Control Systems

11) Working inside engine compartment, remove casing cap out of the toe board by turning it clockwise.



12) Pull out the cable from the toe board hole.
13) Remove accelerator pedal connecting bolt from accelerator pedal bracket.

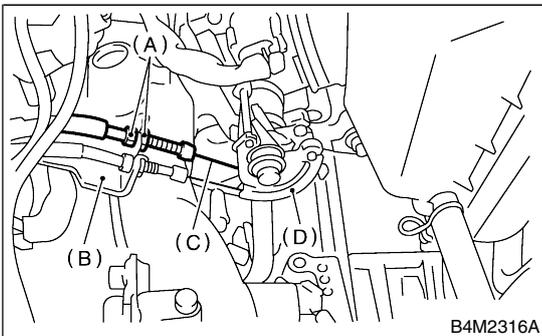


2. RHD MODEL S177005A1802

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

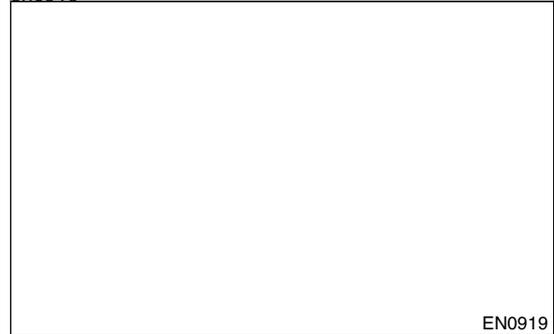
CAUTION:
Be careful not to kink accelerator cable.

● SOHC model



● DOHC TURBO model

en0919



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

6) Remove clip inside engine compartment.

● SOHC model

en0921



● DOHC TURBO model

en0923



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

7) Remove instrument panel lower cover from instrument panel, and connector.

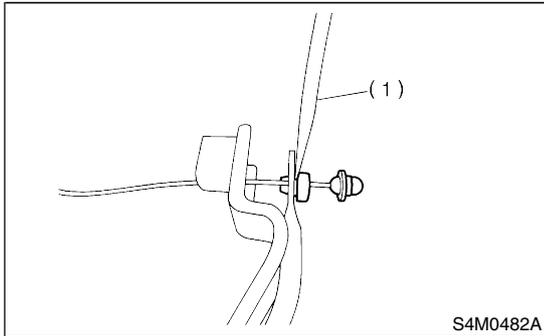
8) Disconnect connector from kick-down switch. (AT model)

9) Remove clevis pin which secures brake pedal to brake booster operating rod. Also disconnect electrical connectors (for stop light switch, etc.).

ACCELERATOR PEDAL

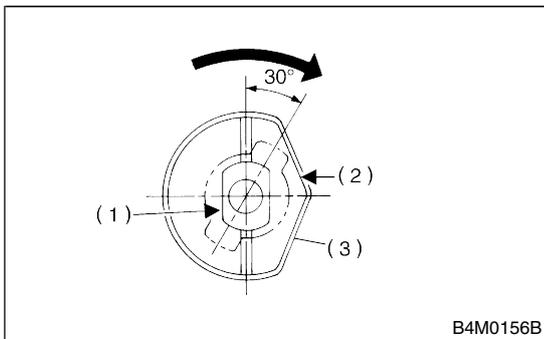
Speed Control Systems

10) Disconnect accelerator cable from accelerator pedal lever.



(1) Slot type screwdriver

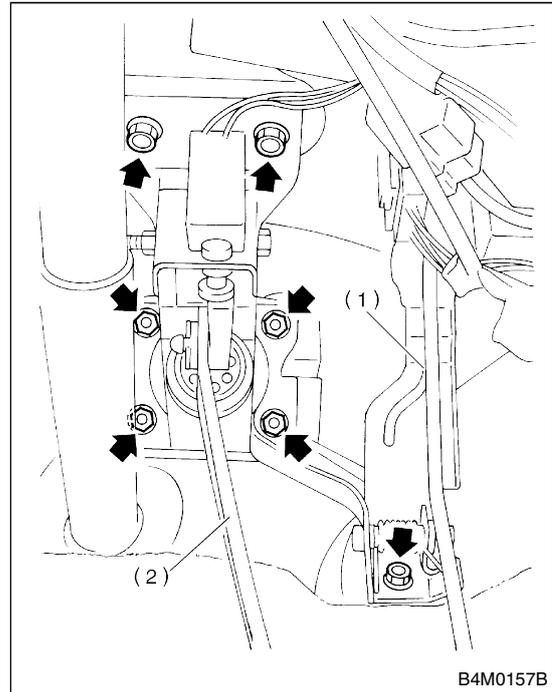
11) Remove the casing cap out of the toe board by turning it clockwise.



(1) Accelerator cable
(2) Toe board hole
(3) Casing cap

12) Pull out the cable from the toe board hole.

13) Remove nuts and bolts which secure pedal bracket.



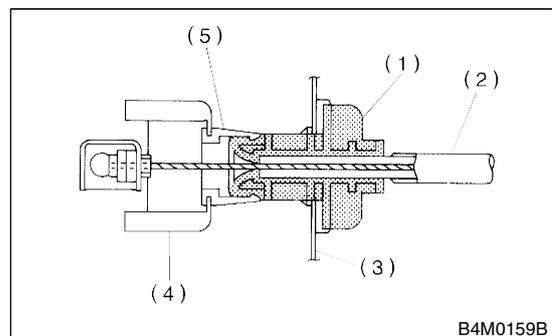
(1) Accelerator pedal
(2) Brake pedal

B: INSTALLATION S177005A11

Install in the reverse order of removal.

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.
- Always use new clevis pins. (RHD model only)
- Make sure that holder and casing cap are securely connected.



(1) Casing cap
(2) Accelerator cable
(3) Toe board
(4) Accelerator pedal bracket
(5) Holder

ACCELERATOR PEDAL

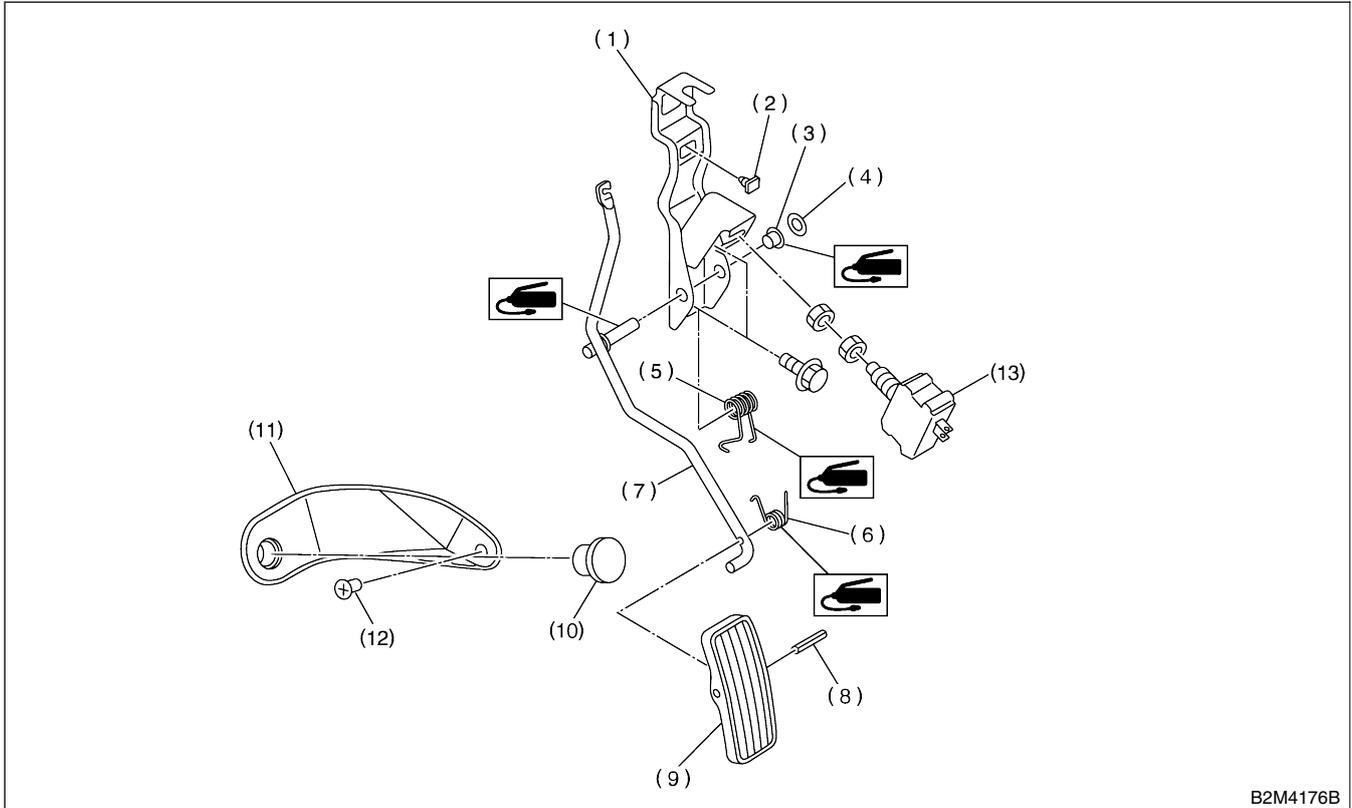
Speed Control Systems

C: DISASSEMBLY S177005A06

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.

● LHD model



B2M4176B

- (1) Accelerator bracket
- (2) Stopper
- (3) Bushing
- (4) Clip
- (5) Accelerator spring

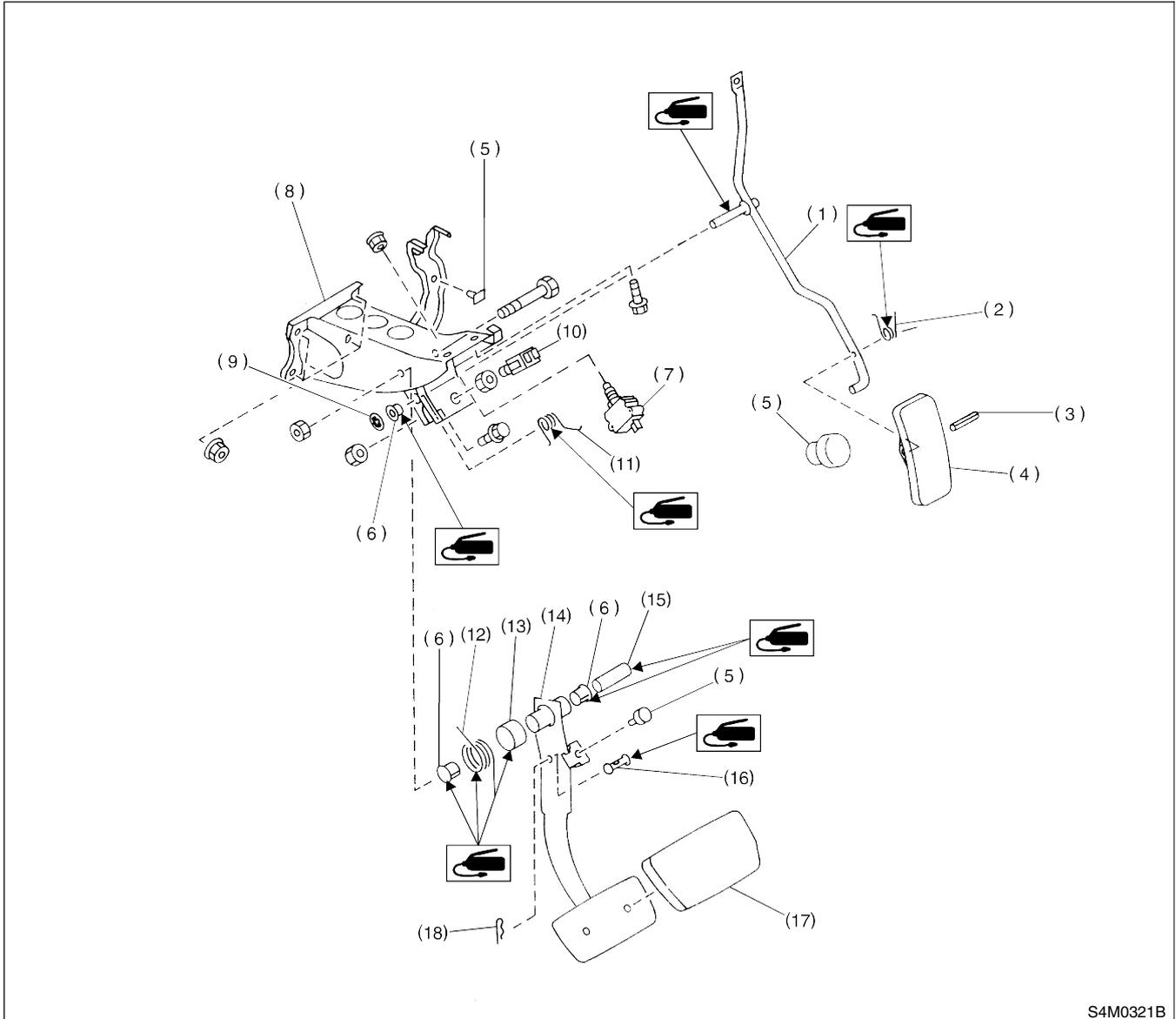
- (6) Accelerator pedal spring
- (7) Accelerator pedal lever
- (8) Spring pin
- (9) Accelerator pedal
- (10) Accelerator stopper

- (11) Accelerator plate
- (12) Clip
- (13) Kick-down switch (AT model)

ACCELERATOR PEDAL

Speed Control Systems

● RHD model



S4M0321B

- | | | |
|------------------------------|-------------------------|----------------------|
| (1) Accelerator pedal | (7) Kick-down switch | (13) Brake spacer |
| (2) Accelerator pedal spring | (8) Pedal bracket | (14) Brake pedal |
| (3) Spring pin | (9) Clip | (15) Spacer |
| (4) Accelerator pedal pad | (10) Stop light switch | (16) Clevis pin |
| (5) Stopper | (11) Accelerator spring | (17) Brake pedal pad |
| (6) Bushing | (12) Brake pedal spring | (18) Snap pin |

ACCELERATOR PEDAL

Speed Control Systems

D: ASSEMBLY S177005A02

Assemble in the reverse order of disassembly.

CAUTION:

Clean and apply grease to spacer and inside bore of a accelerator pedal.

E: INSPECTION S177005A10

1. ACCELERATOR PEDAL S177005A1001

Lightly move pedal pad in lateral the direction to ensure pedal deflection is in specified range.

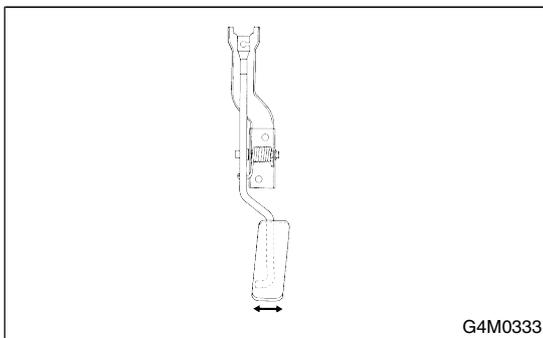
CAUTION:

If excessive deflection is noted, replace bushing and clip with new ones.

Deflection of accelerator pedal:

Service limit

5.0 mm (0.197 in) or less

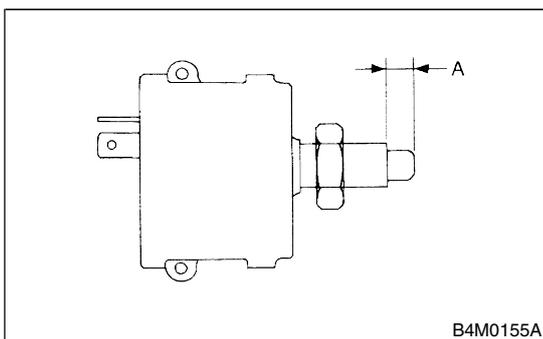


2. KICK-DOWN SWITCH S177005A1002

If kick-down switch does not operate properly (or if it does not stop at the specified position), replace with a new one.

Specified position: A

$2^{+1.5}/_0$ mm ($0.079^{+0.059}/_0$ in)



F: ADJUSTMENT S177005A01

1) Check pedal stroke and free play by operating accelerator pedal by hand.

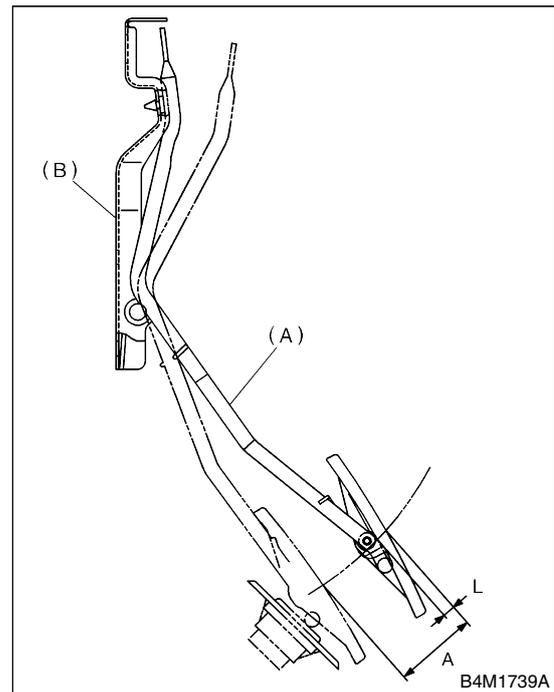
If it is not within specified value, adjust it by turning nut connecting accelerator cable to throttle body.

Free play at pedal pad: L

1 — 4 mm (0.04 — 0.16 in)

Stroke at pedal pad: A

50 — 55 mm (1.97 — 2.17 in)



(A) Accelerator pedal

(B) Accelerator pedal bracket

Accelerator cable lock nut tightening torque:

14 N·m (1.4 kgf·m, 10.1 ft·lb)

ACCELERATOR PEDAL

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2) Check to ensure the kick-down switch operates at the specified value in relation to the stroke of the accelerator pedal.

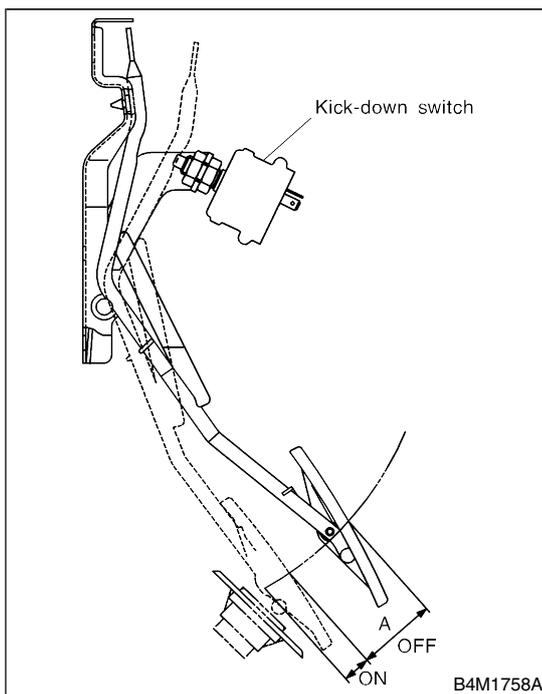
If it is not in specified value, adjust it by adjusting position of kick-down switch.

CAUTION:

Be careful not to rotate kick-down switch.

Kick-down switch stroke: A
 $48 \pm 1 \text{ mm}$ ($1.89 \pm 0.04 \text{ in}$)

Kick-down switch tightening torque:
 $8 \text{ N}\cdot\text{m}$ ($0.8 \text{ kgf}\cdot\text{m}$, $5.8 \text{ ft}\cdot\text{lb}$)



ACCELERATOR CONTROL CABLE

Speed Control Systems

3. Accelerator Control Cable S177759

A: REMOVAL S177759A18

- 1) Remove accelerator pedal. <Ref. to SP-5, REMOVAL, Accelerator Pedal.>
- 2) Separate accelerator cable and accelerator pedal.

B: INSTALLATION S177759A11

- 1) Install in the reverse order of removal.

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 to the throttle cable on the engine side.

- 2) Adjustment after pedal installation <Ref. to SP-7, INSTALLATION, Accelerator Pedal.>

C: INSPECTION S177759A10

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