SUPPLEMENT FOR 6 CYLINDER ENGINE MODEL

This service manual has been prepared to provide SUBARU service personnel with the necessary information and data for the correct maintenance and repair of SUBARU vehicles.

This manual includes the procedures for maintenance, disassembling, reassembling, inspection and adjustment of components and diagnostics for guidance of experienced mechanics.

Please peruse and utilize this manual fully to ensure complete repair work for satisfying our customers by keeping their vehicle in optimum condition. When replacement of parts during repair work is needed, be sure to use SUBARU genuine parts.

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All information, illustration and specifications contained in this manual are based on the latest product information available at the time of publication approval.

FUJI HEAVY INDUSTRIES LTD.

SUPPLEMENT FOR 6 CYLINDER ENGINE MODEL

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SPEED CONTROL SYSTEMS

SP(H6)

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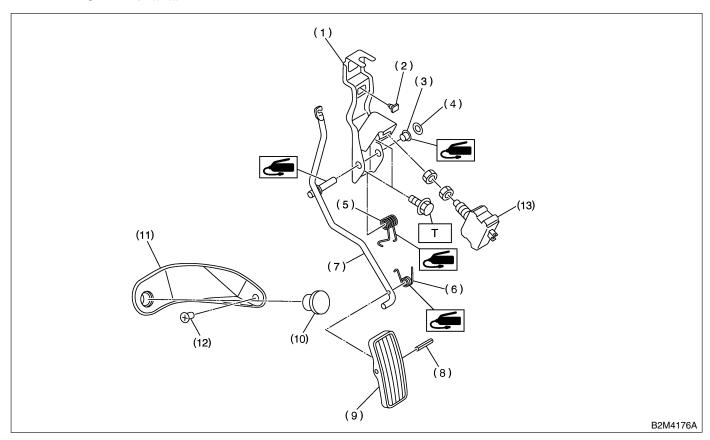
1. General Description s147001

A: SPECIFICATION S147001A22

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 S147001A05

1. LHD MODEL S147001A0501

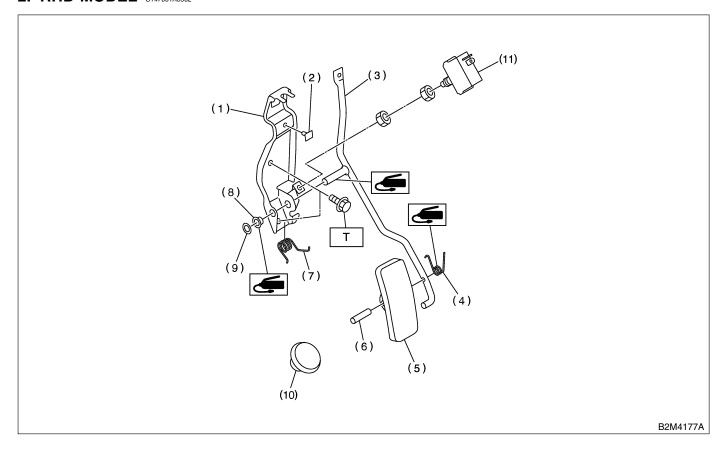


- (1) Accelerator bracket
- (2) Stopper
- (3) Bushing
- (4) Clip
- (5) Accelerator spring
- (6) Accelerator pedal spring
- (7) Accelerator pedal lever
- (8) Spring pin
- (9) Accelerator pedal
- (10) Accelerator stopper
- (11) Accelerator plate
- (12) Clip

(13) Kick-down switch

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

2. RHD MODEL S147001A0502



- (1) Accelerator bracket
- (2) Stopper
- (3) Accelerator pedal lever
- (4) Accelerator pedal spring
- (5) Accelerator pedal

- (6) Spring pin
- (7) Accelerator spring
- (8) Bushing
- (9) Clip
- (10) Accelerator stopper

(11) Kick-down switch

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

C: CAUTION S147001A03

- 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.

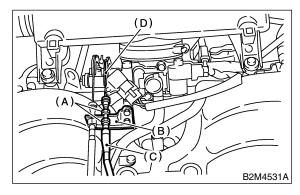
2. Accelerator Pedal S147005

A: REMOVAL S147005A18

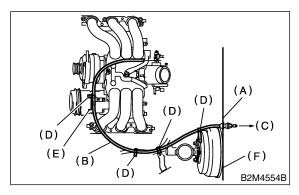
- 1) Disconnect ground cable from battery.
- 2) Remove lock nut from accelerator cable bracket.
- 3) Separate accelerator cable from bracket.
- 4) Remove accelerator cable end from throttle cam
- 5) Disconnect accelerator cable from throttle body.

CAUTION:

Be careful not to kink accelerator cable.

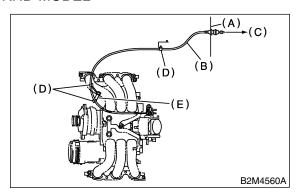


- (A) Lock nut
- (B) Accelerator cable bracket
- (C) Accelerator cable
- (D) Throttle cam
- 6) Remove clip inside engine compartment.
- LHD MODEL

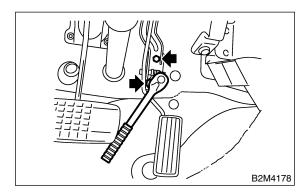


- (A) Toe board
- (B) Accelerator cable
- (C) To accelerator pedal
- (D) Clip
- (E) Bracket
- (F) Brake booster

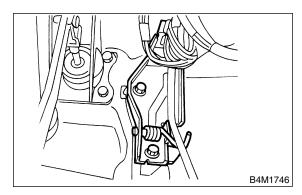
RHD MODEL



- (A) Toe board
- (B) Accelerator cable
- (C) To accelerator pedal
- (D) Clip
- (E) Bracket
- 7) Remove instrument panel lower cover from instrument panel, and connector.
- 8) Disconnect connector from kick-down switch.
- 9) Remove accelerator pedal connecting bolt from accelerator pedal bracket.
- LHD MODEL



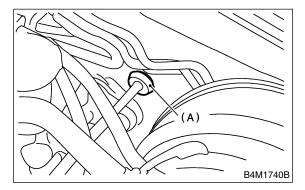
RHD MODEL



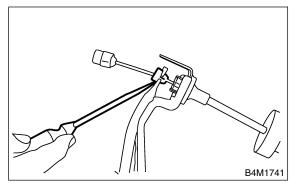
10) Disconnect grommet (A) from toe board.

NOTE:

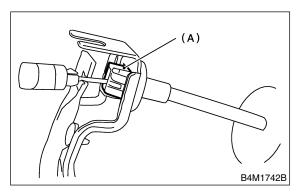
From inside compartment, push grommet into hole.



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



13) Disconnect accelerator cable stopper (A) from bracket.



14) Separate accelerator cable and bracket.

B: INSTALLATION S147005A11

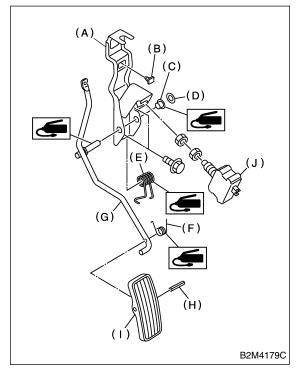
Install in the reverse order of removal.

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.

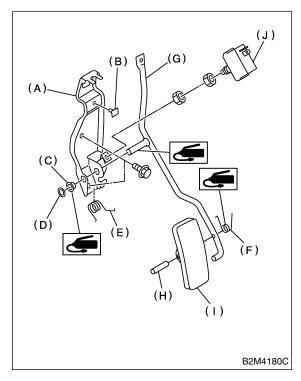
C: DISASSEMBLY S147005A06

- 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



- (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
- (J) Kick-down switch

RHD MODEL



- (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
- (J) Kick-down switch

D: ASSEMBLY S147005A02

Assemble in the reverse order of disassembly.

CAUTION:

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

E: INSPECTION S147005A10

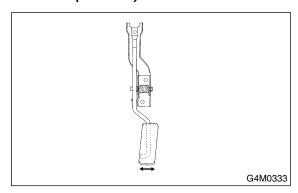
1. ACCELERATOR PEDAL S147005A1001

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.

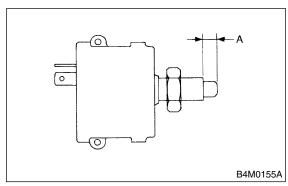
Deflection of accelerator pedal: Service limit 5.0 mm (0.197 in) or less



2. KICK-DOWN SWITCH S147005A1002

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



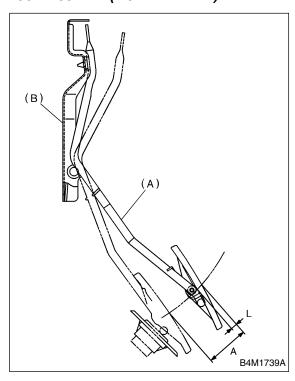
F: ADJUSTMENT S147005A01

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: 12 N⋅m (1.2 kgf-m, 9 ft-lb)

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

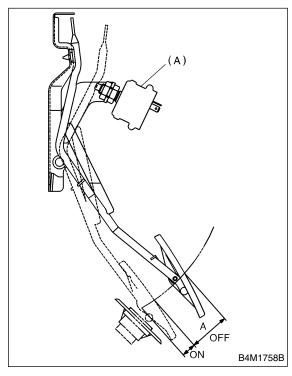
If it is not in specified value, adjust it by adjusting position of kick-down switch.

CAUTION:

Be careful not to rotate kick-down switch.

Kick-down switch stroke: A 48±1 mm (1.89±0.04 in)

Kick-down switch tightening torque: 12 N⋅m (1.2 kgf-m, 9 ft-lb)



(A) Kick-down switch

3. Accelerator Control Cable s147007

A: REMOVAL S147007A18

- 1) Remove accelerator pedal. <Ref to SP(H6)-4, REMOVAL, Accelerator Pedal.>
- 2) Separate accelerator cable and accelerator pedal.

B: INSTALLATION S147007A11

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(H6)-5, INSTALLATION, Accelerator Pedal.>

C: INSPECTION S147007A10

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