

B4M0366A

1. Pedal

A: ON-CAR SERVICE

1. BRAKE PEDAL

1) Check position of pedal pad.

- ① Stop light switch
- ② Mat
- ③ Toe board
- ④ Brake booster operating rod

Pedal height: L
148 mm (5.83 in)

If it is not in specified value, adjust it by adjusting brake booster operating rod length.

2) Check free play by operating pedal by hand.

If it is not in specified value, adjust it by adjusting position of stop light switch.

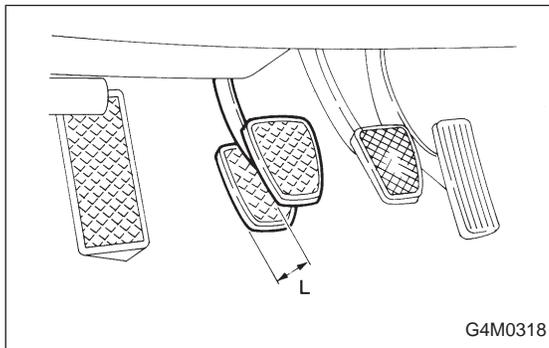
CAUTION:

Be careful not to rotate stop light switch.

Brake pedal free play: A
1 — 3 mm (0.04 — 0.12 in)
[Depress brake pedal pad with a force of less than 10 N (1 kg, 2 lb).]

Stop light switch lock nut tightening torque:
8±2 N·m (0.8±0.2 kg·m, 5.8±1.4 ft·lb)

3) Apply grease to operating rod connecting pin to prevent it from wearing.

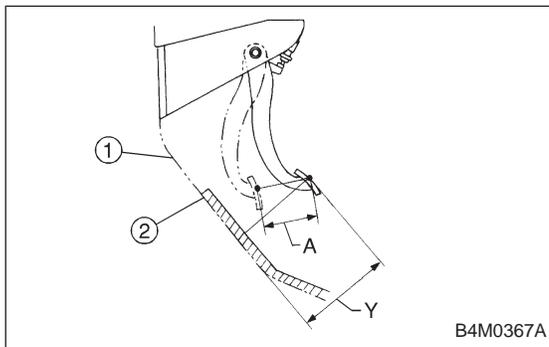


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2. CLUTCH PEDAL (2200 cc MODEL)

1) Check clutch pedal free play by operating pedal by hand.

Free play: L (At clutch pedal pad)
10 — 20 mm (0.39 — 0.79 in)

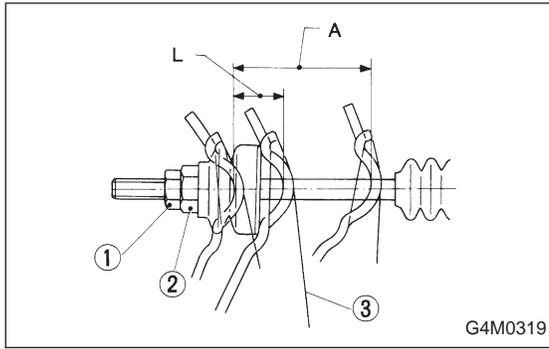


B4M0367A

Pedal height: Y
158 mm (6.22 in)

Pedal stroke: A
140 — 145 mm (5.51 — 5.71 in)

- ① Toe board
- ② Mat



2) If it is not in specified value, adjust it by turning adjusting nut on engine side end of clutch cable.

Free play: L

3 — 4 mm (0.12 — 0.16 in)

Full stroke: A

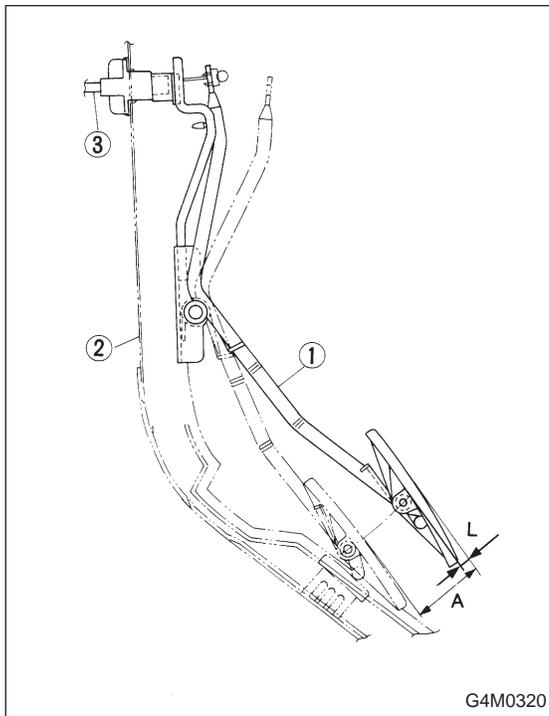
25.5 — 27 mm (1.004 — 1.063 in)

3) Apply grease to connecting portion of clutch pedal and clutch cable.

- ① Lock nut
- ② Adjusting nut
- ③ Release fork

Lock nut tightening torque:

5.9±1.5 N·m (0.60±0.15 kg-m, 4.3±1.1 ft-lb)



3. ACCELERATOR PEDAL

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)

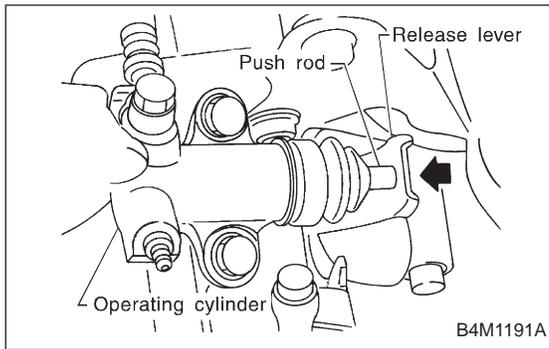
Stroke at pedal pad: A

50 — 55 mm (1.97 — 2.17 in)

- ① Accelerator pedal
- ② Toe board
- ③ Accelerator cable

Accelerator cable lock nut tightening torque:

14±4 N·m (1.4±0.4 kg-m, 10.1±2.9 ft-lb)



4. CLUTCH PEDAL (2500 cc MODEL)

- 1) Push release fork until operating cylinder push rod retracts. Check that clutch fluid level in reservoir tank increases.
- 2) If clutch fluid level increases, hydraulic clutch play is correct.
- 3) If clutch fluid level does not increase or push rod does not retract, clutch pedal must be adjusted. <Ref. to 4-5 [W1F1].>
- 4) Check the fluid level on the outside of the clutch master cylinder tank. If the level is below "MIN", add clutch fluid to bring it up to "MAX".

Recommended clutch fluid:

FMVSS No. 116, fresh DOT 3 or DOT 4 brake fluid

B: REMOVAL

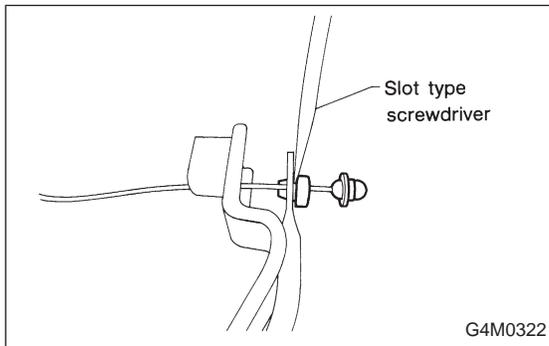
1. ACCELERATOR PEDAL (LHD MODEL)

- 1) Disconnect ground cable from battery.
- 2) Disconnect accelerator cable from throttle body.

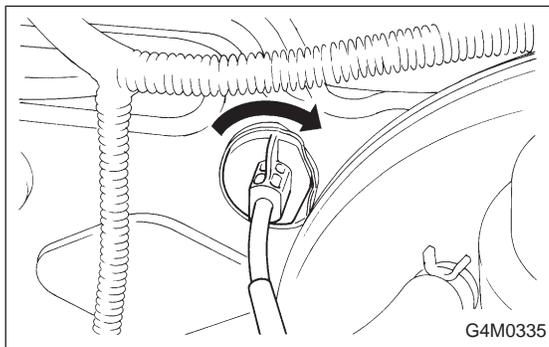
CAUTION:

Be careful not to kink accelerator cable.

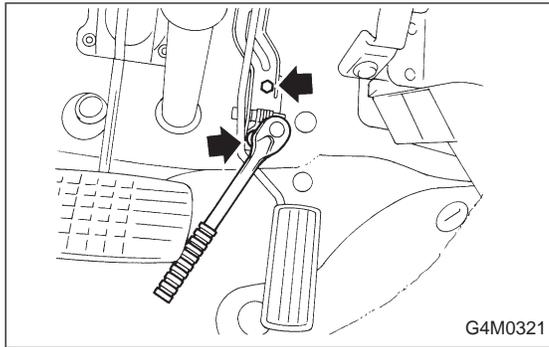
- 3) Remove instrument panel lower cover from instrument panel, and connector.



- 4) Disconnect accelerator cable from accelerator pedal lever.



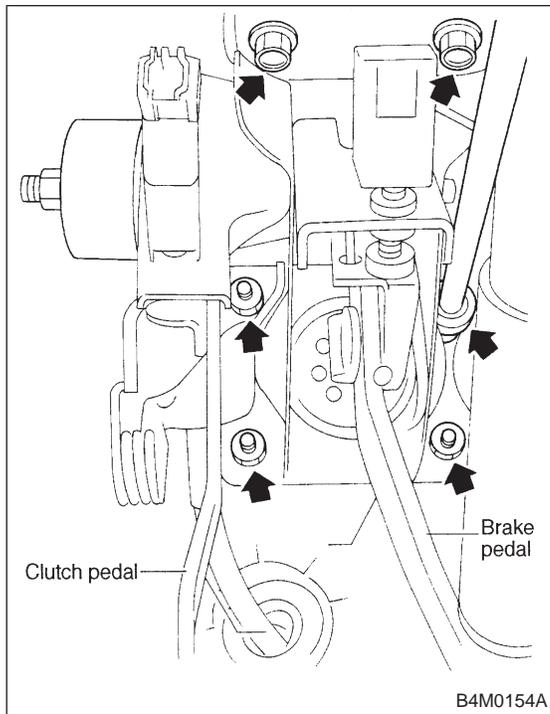
- 5) Working inside engine compartment, remove casing cap out of the toe board by turning it clockwise.
- 6) Pull out the cable from the toe board hole.



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

2. BRAKE AND CLUTCH PEDAL (LHD EXCEPT 2500 cc MODEL)

- 1) Disconnect ground cable from battery.
- 2) Disconnect clutch cable from release lever.
- 3) Remove instrument panel lower cover from instrument panel.
- 4) Disconnect the following parts from pedal bracket.
 - (1) Operating rod of brake booster
 - (2) Electrical connectors (for stop light switch, etc.)
- 5) Remove clevis pin which secures pedal to push rod.

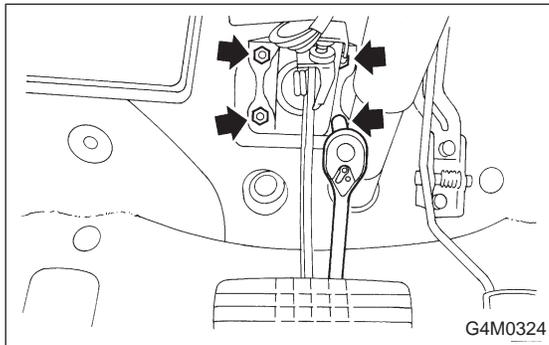


- 6) Remove bolts and nuts which secure brake and clutch pedals, and remove pedal bracket and clutch cable as a unit.

CAUTION:

Before removing clutch cable from toe board, remove grommet. Slowly remove clutch cable, being careful not to scratch it.

- 7) Depress clutch pedal, disconnect clutch cable from clutch pedal.



3. BRAKE PEDAL (LHD MODEL)

- 1) Disconnect ground cable from battery.
- 2) Remove instrument panel lower cover from instrument panel.
- 3) Remove clevis pin which secures brake pedal to brake booster operating rod. Also disconnect stop light switch connector.
- 4) Remove two bolts and four nuts which secure brake pedal to pedal.

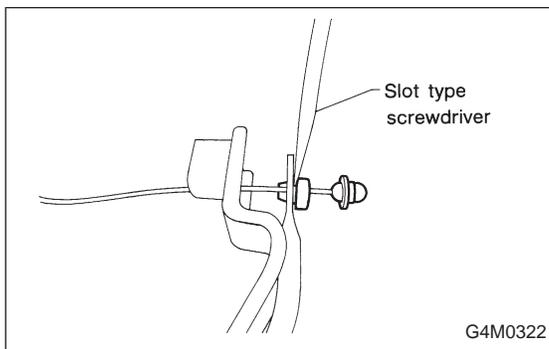
4. ACCELERATOR AND BRAKE PEDAL (RHD MODEL)

- 1) Disconnect negative cable from battery.
- 2) Disconnect accelerator cable from throttle body.

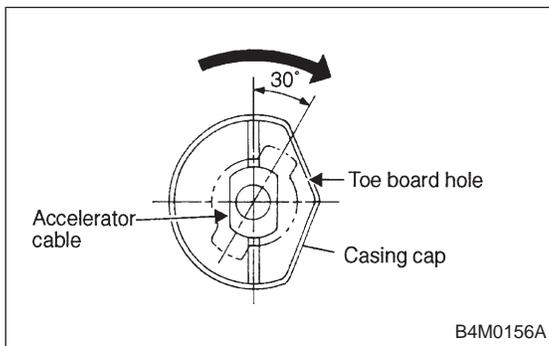
CAUTION:

Be careful not to kink accelerator cable.

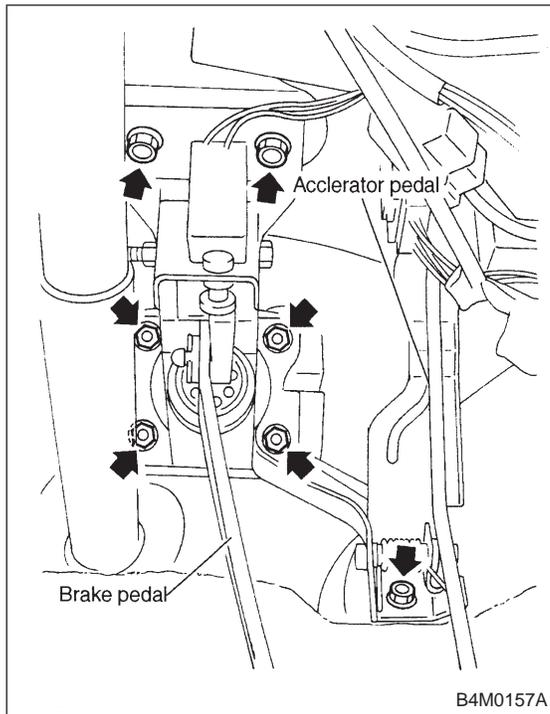
- 3) Remove instrument panel lower cover from instrument panel.
- 4) Remove clevis pin which secures brake pedal to brake booster operating rod. Also disconnect electrical connectors (for stop light switch, etc.).



- 5) Disconnect accelerator cable from accelerator pedal lever.



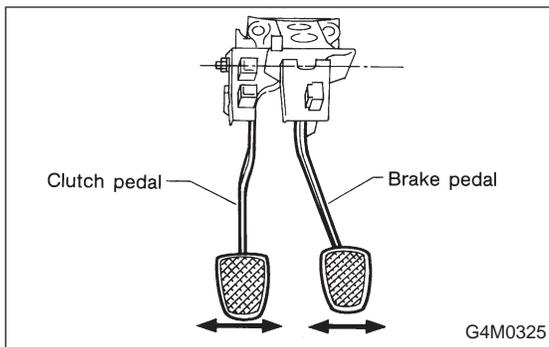
- 6) Remove the casing cap out of the toe board by turning it clockwise.
- 7) Pull out the cable from the toe board hole.



- 8) Remove nuts and bolts which secure pedal bracket.

5. BRAKE AND CLUTCH PEDAL (2500 cc MODEL)

- 1) Remove steering bolts.
- 2) Raise vehicle on hoist and remove the two bolts which secure steering unit to underside of body.
- 3) Lower vehicle to floor.
- 4) Remove instrument panel lower cover from instrument panel.
- 5) Disconnect the following parts from pedal bracket.
 - Operating rod of brake booster
 - Electrical connectors (for stop light switch, etc.)
- 6) Remove clevis pin which secures lever to push rod.
- 7) Remove nut which secures clutch master cylinder.
- 8) Remove steering assembly.
- 9) Remove bolts and nuts which secure brake and clutch pedals, and remove pedal assembly.



C: INSPECTION

1. BRAKE AND CLUTCH PEDALS

Move brake and clutch pedal pads in the lateral direction with a force of approximately 10 N (1 kg, 2 lb) to ensure pedal deflection is in specified range.

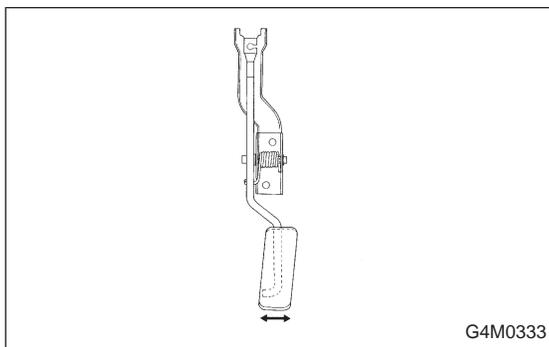
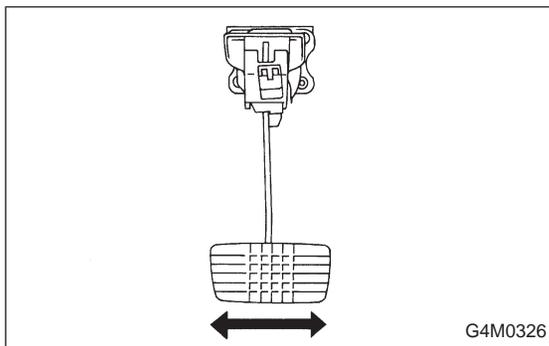
Deflection of brake and clutch pedal:

Service limit

5.0 mm (0.197 in) or less

CAUTION:

If excessive deflection is noted, replace bushings with new ones.



2. ACCELERATOR PEDAL

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

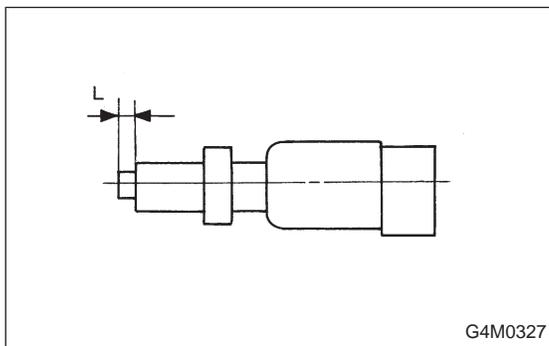
Deflection of accelerator pedal:

Service limit

5.0 mm (0.197 in) or less

CAUTION:

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



3. STOP LIGHT SWITCH

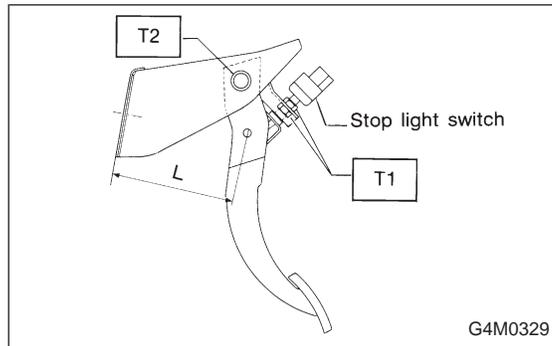
If stop light switch does not operate properly (or if it does not stop at the specified position), replace with a new one.

Specified position: L

$2.8^{+1.5}_0$ mm ($0.110^{+0.059}_0$ in)

D: ASSEMBLY**1. BRAKE AND CLUTCH PEDAL**

- 1) Attach stop light switch, etc. to pedal bracket temporarily.
- 2) Clean inside of bores of clutch pedal and brake pedal, apply grease, and set bushings into bores.
- 3) Align bores of pedal bracket, clutch pedal and brake pedal, attach brake pedal return spring and clutch pedal effort reducing spring (vehicle with hill holder), and then install pedal bolt.

**Tightening torque:**

T2: 29 ± 7 N·m (3.0 ± 0.7 kg·m, 21.7 ± 5.1 ft·lb)

NOTE:

Clean up inside of bushings and apply grease before installing spacer.

- 4) Set brake pedal position by adjusting position of stop light switch.

Pedal position: L

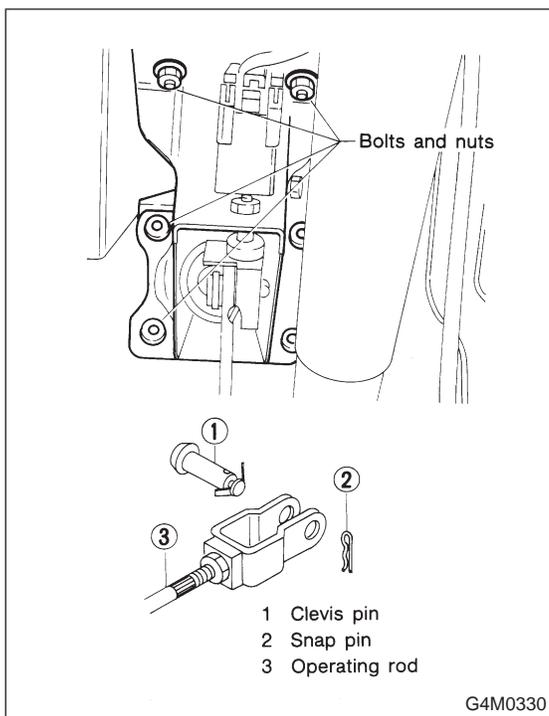
125.9 mm (4.96 in)

Tightening torque:

T1: 8 ± 2 N·m (0.8 ± 0.2 kg·m, 5.8 ± 1.4 ft·lb)

2. ACCELERATOR PEDAL

Clean and apply grease to spacer and inside bore of accelerator pedal. Install accelerator pedal onto pedal bracket.



E: INSTALLATION

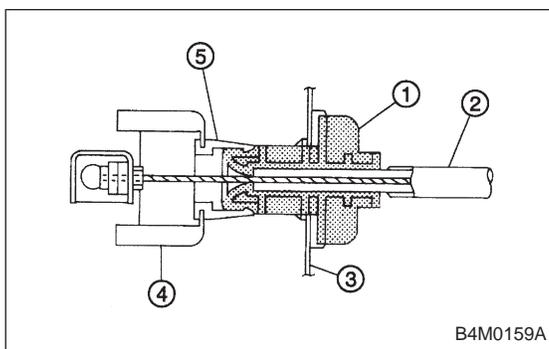
1. BRAKE AND CLUTCH PEDAL (2200 cc MODEL)

1) Installation is in the reverse order of removal procedures.

CAUTION:

- Be careful not to bend clutch cable too much.
- Never fail to cover outer cable end with boot.
- Be careful not to kink accelerator cable.

2) Adjustment after pedal installation. <Ref. to 4-5 [W1A1].>



2. ACCELERATOR PEDAL

1) 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

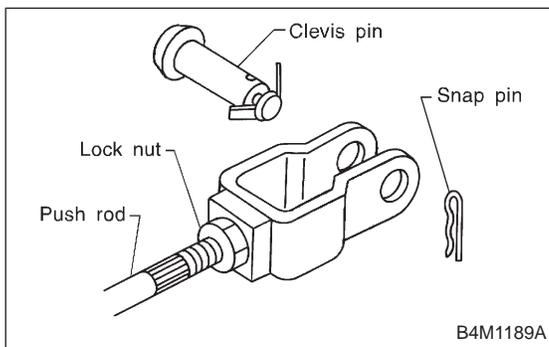
2) Adjustment after pedal installation. <Ref. to 4-5 [W1A1].>

3. BRAKE AND CLUTCH PEDAL (2500 cc MODEL)

1) Set pedal bracket above steering column.
 2) Insert bolts of brake booster into holes on toe board, support it from engine room, and fit holes of pedal bracket onto the bolts.

At this time, operating rod of brake booster should be engaged with brake pedal.

3) While pushing pedal bracket upward firmly, tighten 4 nuts and 2 bolts at its upper surface.



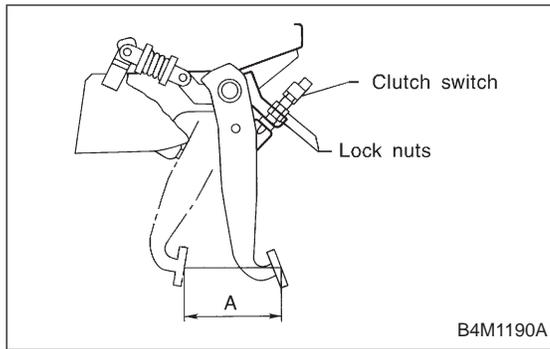
4) Connect operating rod of brake booster to brake pedal using clevis pin and snap pin.

- 5) Connect electrical connectors for stop light switch, etc.
- 6) Install steering column or steering assembly as before.
- 7) Install nut which secures clutch master cylinder.
- 8) Install clevis pin which secures lever to push rod.
- 9) Check brake pedal free play.

<Ref. to 4-5 [W1A1].>

10) Adjust clutch pedal.

<Ref. to 4-5 [W1F1].>



F: ADJUSTMENT

1. CLUTCH PEDAL (2500 cc MODEL)

1) Turn cruise control clutch switch lock nuts until clutch pedal full stroke length is within specifications.

CAUTION:

Do not attempt to turn clutch switch to adjust clutch pedal full stroke length.

NOTE:

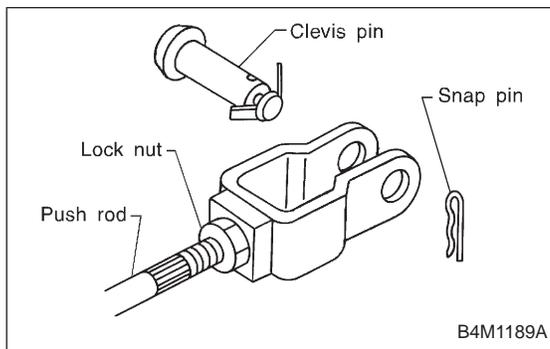
If lock nuts cannot adjust clutch pedal full stroke length to specifications, turn master cylinder push rod to adjust it.

Specified clutch pedal full stroke: A

145 — 150 mm (5.71 — 5.91 in)

Tightening torque (Clutch switch lock nut):

8±2 N·m (0.8±0.2 kg·m, 5.8±1.4 ft·lb)



2) Turn master cylinder push rod so that clevis pin moves to the left and then to the right. Clevis pin must move without resistance while it is rattling.

Tightening torque (Push rod lock nut):

8±2 N·m (0.8±0.2 kg·m, 5.8±1.4 ft·lb)

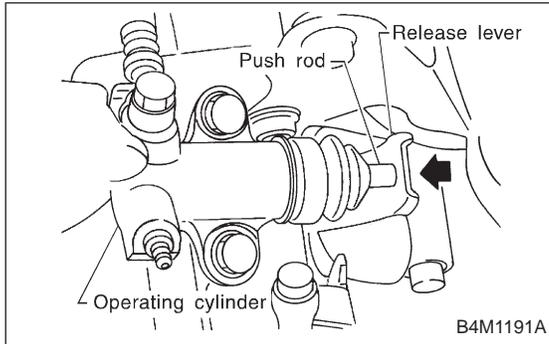
3) Depress and release clutch pedal 2 to 3 times to ensure that clutch pedal and release fork operate smoothly. If clutch pedal and release fork do not operate smoothly, bleed air from clutch hydraulic system. <Ref. to 2-10 [W202].>

4) Measure clutch pedal full stroke length again to ensure that it is within specifications. If it is not, repeat adjustment procedures again from the beginning.

Specified clutch pedal full stroke:

145 — 150 mm (5.71 — 5.91 in)

5) Move clevis pin to the left and then to the right. It should move without resistance while it is rattling. If resistance is felt, repeat adjustment procedures again from the beginning.

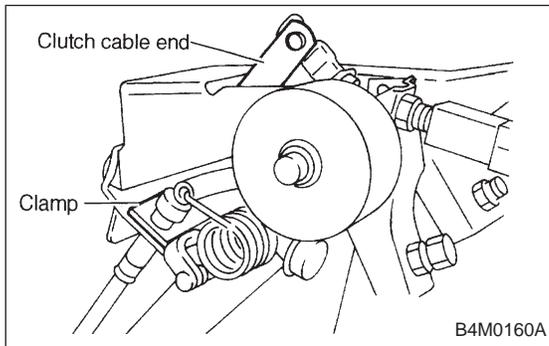


6) Push release lever until operating cylinder push rod retracts. Ensure that clutch fluid level in reservoir tank increases. If clutch fluid level increases, hydraulic clutch is properly adjusted; if fluid level does not increase or push rod does not retract, replace master cylinder with new one. <Ref. to 2-10 [W600].>

2. Clutch Cable

A: REMOVAL

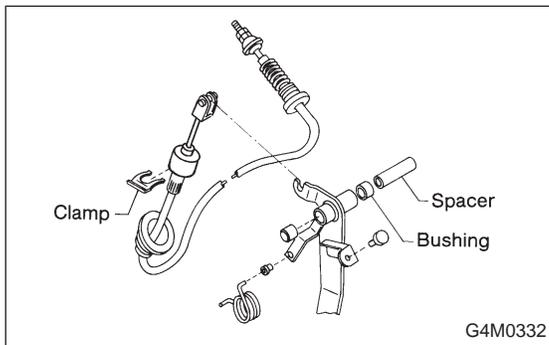
1) Disconnect clutch cable from release lever.



- 2) Depress clutch pedal to the floor.
- 3) Remove clutch cable clamp from pedal bracket.
- 4) Disconnect clutch cable from pedal bracket and pedal end.
- 5) Remove clutch cable from body.

CAUTION:

Before removing clutch cable from toe board, remove grommet. Slowly remove clutch cable, being careful not to scratch it.



B: INSTALLATION

- 1) Clean clutch pedal fitting hole, and apply grease. Connect clutch cable to clutch pedal.
 - 2) Fit clutch pedal to pedal bolt, and connect clutch cable to bracket with clamp.
 - 3) Connect clutch cable end to pedal end.
 - 4) Connect clutch cable from release lever.
 - 5) Install grommet to toe board.
 - 6) Adjustment after cable installation.
- <Ref. to 4-5 [W1A2].>