

## 9. Clutch Pedal S504256

### A: REMOVAL S504256A18

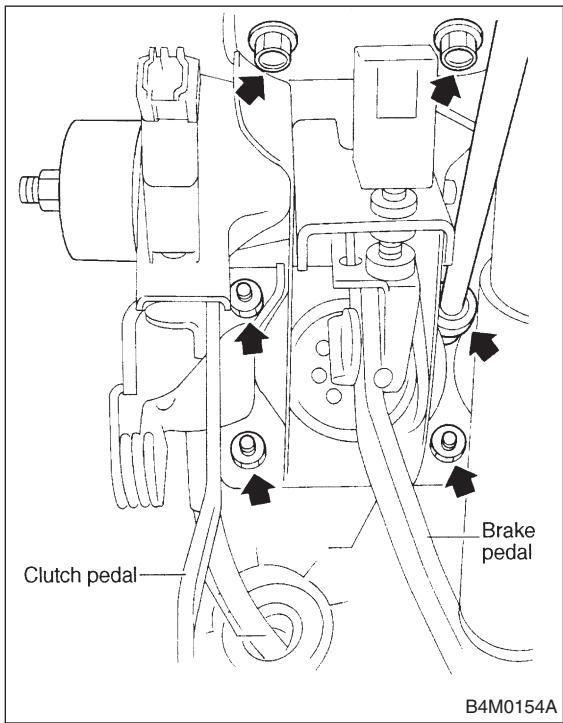
#### 1. MECHANICAL APPLICATION TYPE

S504256A1801

- 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.

### 2. HYDRAULIC APPLICATION TYPE S504256A1802

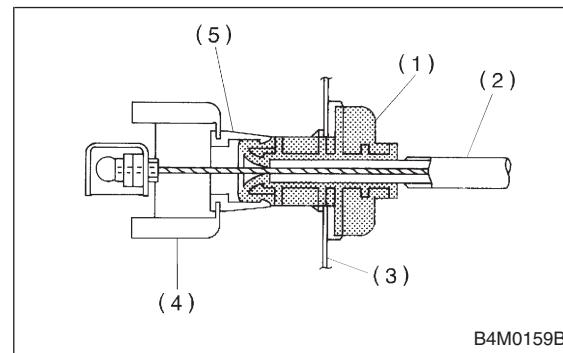
- 1) Remove steering bolts.
- 2) Raise vehicle on hoist and remove the two bolts which secure steering unit to underside of body.
- 3) Lower vehicle to floor.
- 4) Remove instrument panel lower cover from instrument panel.
- 5) Disconnect the following parts from pedal bracket.
  - Operating rod of brake 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.

### B: INSTALLATION S504256A11

- 1) Install in the reverse order of removal.

#### 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.
- 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) Adjust clutch pedal (2500 cc model) <Ref. to CL-24 ADJUSTMENT, Clutch Pedal.>
- 3) Adjustment after pedal installation <Ref. to CL-24 ADJUSTMENT, Clutch Pedal.>

**C: ASSEMBLY**

S504256A02

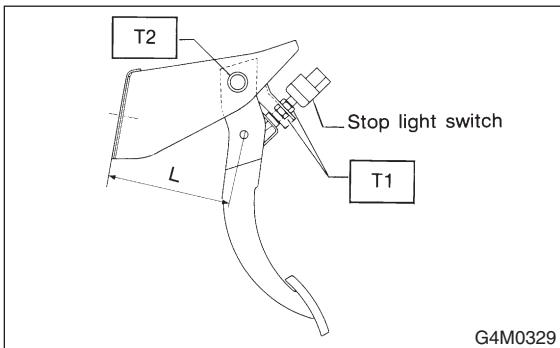
- 1) Attach stop light switch, etc. to pedal bracket temporarily.
- 2) Clean inside of bores of clutch pedal and brake pedal, apply grease, and set bushings into bores.
- 3) Align bores of pedal bracket, clutch pedal and brake pedal, attach brake pedal return spring and clutch pedal effort reducing spring,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

**NOTE:**

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

**Tightening torque:**

**T2: 29 N·m (3.0 kgf-m, 21.7 ft-lb)**



- 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 N·m (0.8 kgf-m, 5.8 ft-lb)**

**D: INSPECTION**

S504256A10

**1. CLUTCH PEDAL**

S504256A1001

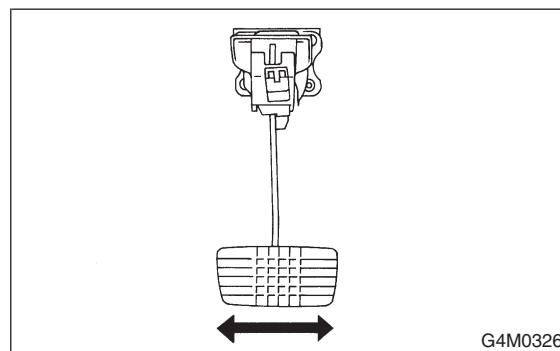
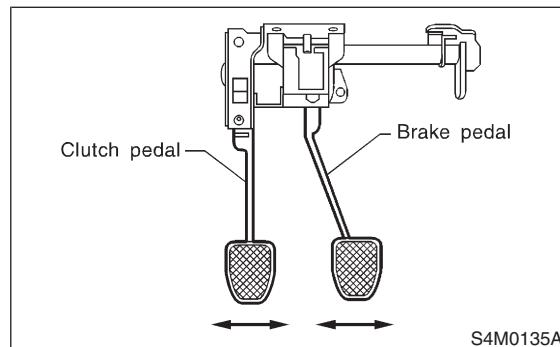
Move brake and clutch pedal pads in the lateral direction with a force of approximately 10 N (1 kgf, 2 lb) to ensure pedal deflection is in specified range.

**CAUTION:**

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

**Deflection of brake and clutch pedal:****Service limit**

**5.0 mm (0.197 in) or less**

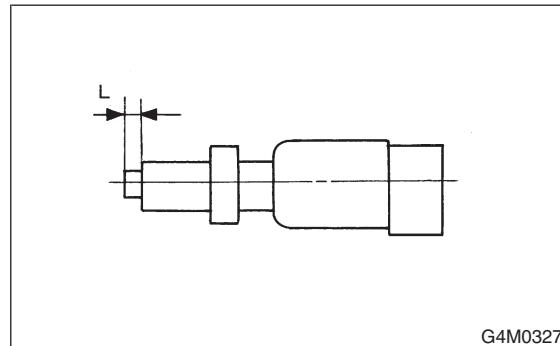
**2. CLUTCH SWITCH**

S504256A1002

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

**Specified position: L**

**$2^{+1.5}_{-0}$  mm (0.079  $^{+0.059}_{-0}$  in)**



# CLUTCH PEDAL

## Clutch System

### E: ADJUSTMENT S504256A01

#### 1. MECHANICAL APPLICATION TYPE

S504256A0102

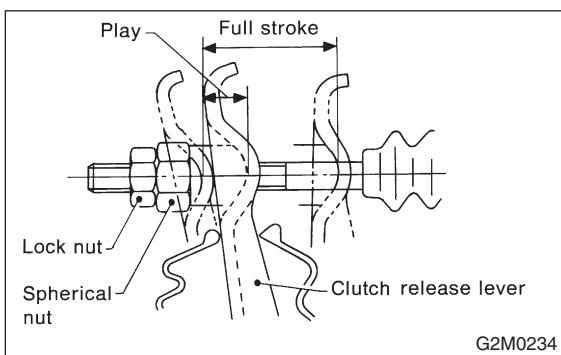
- 1) Remove clutch release lever return spring from lever.
- 2) Adjust spherical nut so that the play is within the specified value at the lever end (center of spherical nut).

#### CAUTION:

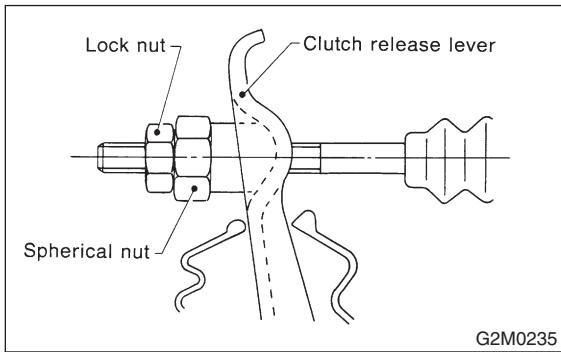
Take care not to twist the cable during adjustment.

**Play: 3 — 4 mm (0.12 — 0.16 in)**

**Full stroke: 24 — 26 mm (0.94 — 1.02 in)**



- 3) Upon completion of adjustment, securely lock spherical nut with lock nut.

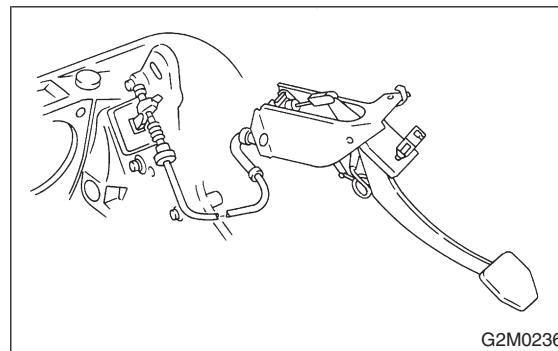


- 4) Install return spring on lever.

#### NOTE:

Hook the long hook side of the return spring with the lever.

- 5) Depress clutch pedal to assure there is no abnormality in the clutch system.



#### 2. HYDRAULIC APPLICATION TYPE S504256A0103

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

#### CAUTION:

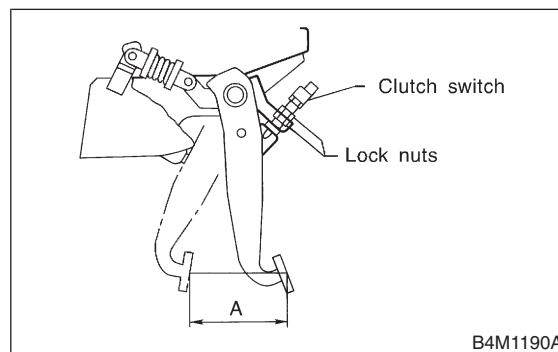
Do not attempt to turn clutch switch to adjust clutch pedal full stroke length.

#### 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  
130 — 135 mm (5.12 — 5.31 in)**

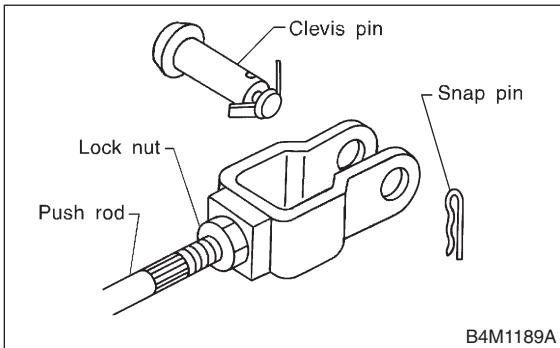
**Tightening torque (Clutch switch lock nut):  
8 N·m (0.8 kgf-m, 5.8 ft-lb)**



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):**

**10 N·m (1.0 kgf-m, 7.2 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 CL-21 PROCEDURE, Clutch Fluid Air Bleeding.>

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:**

**130 — 135 mm (5.12 — 5.31 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 CL-18 INSTALLATION, Master Cylinder.>

