

5. Master Cylinder

A: REMOVAL

- 1) Thoroughly drain brake fluid from reservoir tank.
- 2) Disconnect fluid level indicator harness connector.
- 3) Remove brake pipes from master cylinder.
- 4) Remove master cylinder mounting nuts, and take out master cylinder from brake booster.

CAUTION:

Be extremely careful not to spill brake fluid. Brake fluid spilt on the vehicle body will harm the painted surface; wipe it off quickly if spilt.

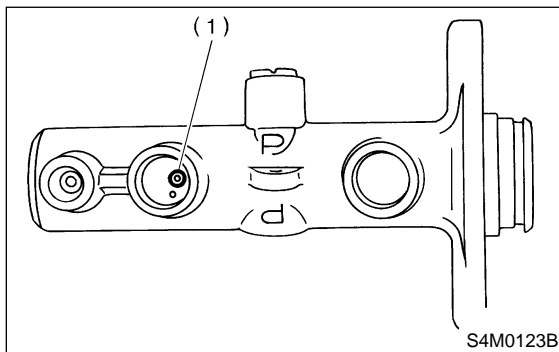
B: DISASSEMBLY

1. PRECAUTIONS FOR DISASSEMBLING

- 1) Remove mud and dirt from the surface of brake master cylinder.
- 2) Prepare tools necessary for disassembly operation, and arrange them neatly on work bench.
- 3) Clean work bench.

2. DISASSEMBLING PROCEDURE

- 1) Remove reserve tank.
- 2) Remove cylinder pin.

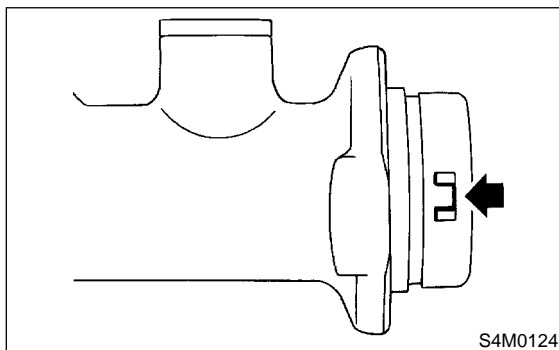


(1) Cylinder pin

- 3) Pry up the pawl and remove the piston retainer.

NOTE:

Piston may jump out from master cylinder.



- 4) Extract primary piston assembly and secondary piston assembly.

CAUTION:

- Do not disassemble the piston assembly; otherwise, the spring set value may be changed.
- Use brake fluid or methanol to wash inside wall of cylinder, pistons and piston cups. Be careful not to damage parts when washing. If methanol is used for washing, do not dip rubber parts, such as piston cups, in it for more than 30 seconds; otherwise, they may become swelled.

C: INSPECTION

If any damage, deformation, wear, swelling, rust, and other faults are found on the primary piston assembly, secondary piston assembly, supply valve stopper, or gasket, replace the faulty part.

CAUTION:

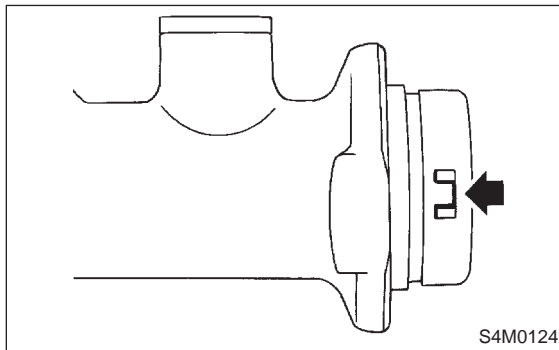
- The primary and secondary pistons must be replaced as complete assemblies.
- The service limit of the clearance between each piston and the master cylinder inner dia. is 0.11 mm (0.0043 in).
- When handling parts, be extremely careful not to damage or scratch the parts, or let any foreign matter get on them.

D: ASSEMBLY**1. PRECAUTIONS FOR ASSEMBLING**

- 1) When assembling, be sure to use recommended brake fluid.
- 2) Ensure that the inside wall of cylinder, pistons, and piston cups are free from dirt when assembling.
- 3) Be extremely careful not to damage, scratch, or dent cylinder inside wall, pistons, and piston cups.
- 4) Do not drop parts. Never attempt to use any part that has been dropped accidentally.

2. ASSEMBLING OPERATION

- 1) Assembling piston assembly:
Apply recommended brake fluid to inside wall of cylinder, and to outer surface of piston assembly, and install piston assemblies carefully into cylinder.
- 2) Assembling cylinder pin:
- 3) Press the pawl and install the piston retainer into the master cylinder.

**E: INSTALLATION**

Install the master cylinder to the body in the reverse order of removal.

Tightening torque:**Master cylinder mounting nut**

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

Piping flare nut

15^{+3}_{-2} N·m ($1.5^{+0.3}_{-0.2}$ kg·m, $10.8^{+2.2}_{-1.4}$ ft·lb)

CAUTION:

Be sure to use recommended brake fluid.

6. Brake Booster**A: REMOVAL**

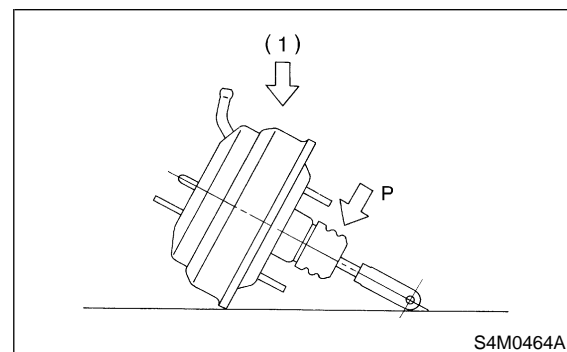
- 1) Remove or disconnect the following parts at engine compartment.
 - (1) Disconnect connector for brake fluid level indicator.
 - (2) Remove brake pipes from master cylinder.
 - (3) Remove master cylinder installing nuts.
 - (4) Disconnect vacuum hose from brake booster.
- 2) Remove the following parts from the pedal bracket.
 - (1) Snap pin and clevis pin
 - (2) The four brake booster installing nuts
- 3) Remove brake booster while shunning brake pipes.

B: HANDLING PRECAUTIONS

- 1) Be careful not to drop brake booster. Brake booster should be discarded if it has been dropped.
- 2) Use special care when handling operating rod. If excessive force is applied to operating rod, sufficient to cause a change in the angle in excess of $\pm 3^\circ$, it may result in damage to the power piston cylinder.
- 3) Use care when placing brake booster on the floor.

CAUTION:

If external force is applied from above when brake booster is placed in this position, the resin portion as indicated by "P", may be damaged.



- (1) Force