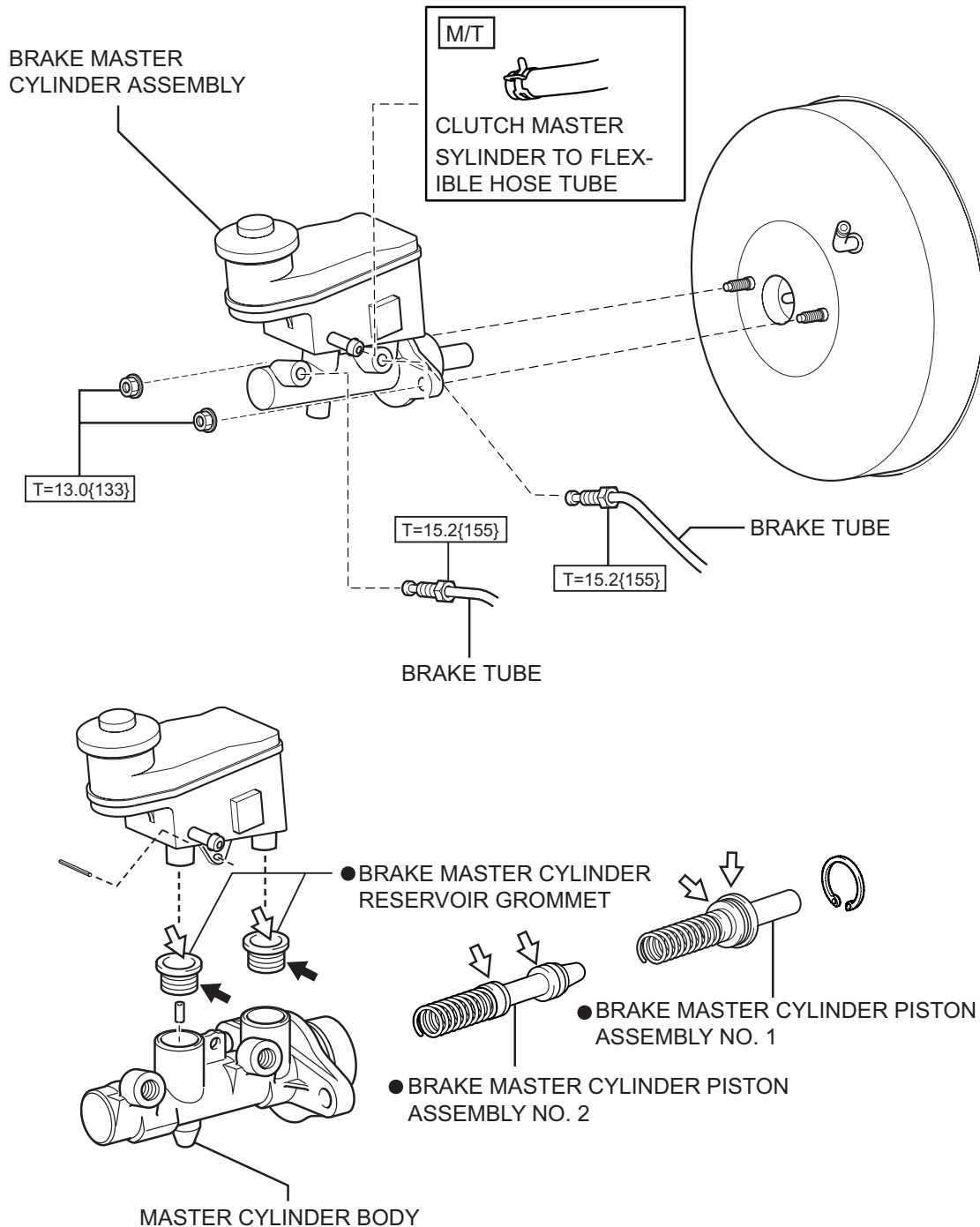


BRAKE MASTER CYLINDER ASSEMBLY

COMPONENTS



REMOVAL

1. **DISCONNECT NEGATIVE BATTERY TERMINAL**
2. **DRAIN BRAKE FLUID**
3. **DISCONNECT CLUTCH MASTER CYLINDER TO FLEXIBLE HOSE TUBE (MANUAL TRANSMISSION)**
 - (a) Remove the clip, and disconnect the clutch master cylinder to flexible hose tube.
4. **REMOVE BRAKE MASTER CYLINDER ASSEMBLY**
SST O9023-00100

NOTICE:

Before removing the brake master cylinder assembly, depress the brake pedal several times and release the vacuum from the brake booster.

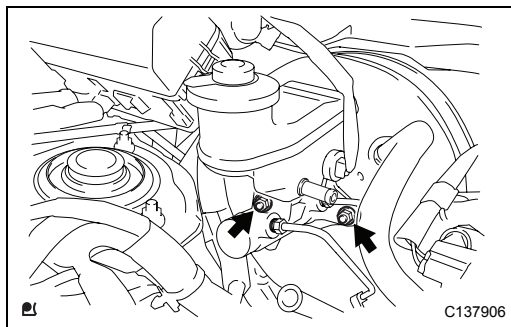
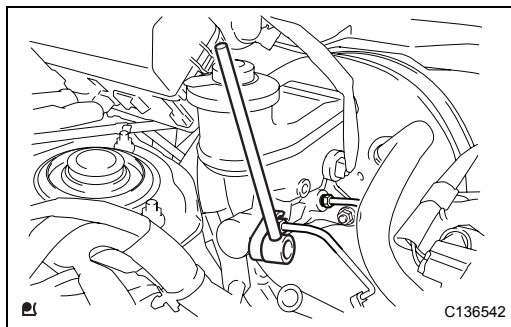
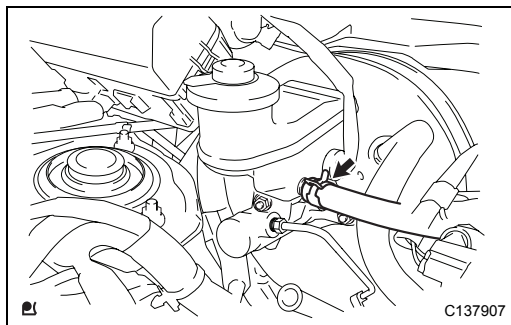
- (a) Disconnect the brake fluid level warning switch connector.

NOTICE:

Make sure that no brake fluid adheres to the connector part.

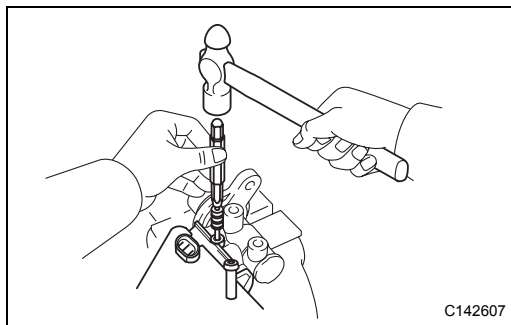
- (b) Using the SST, disconnect the 2 brake tubes.

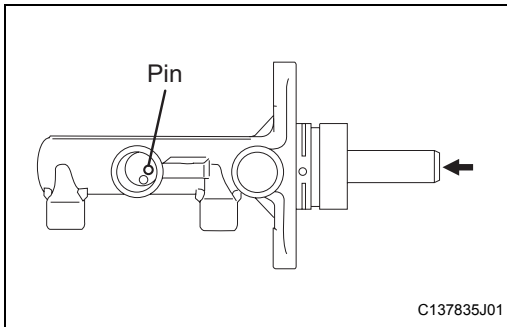
- (c) Remove the 2 nuts, then remove the brake master cylinder assembly.



DISASSEMBLY

1. **REMOVE BRAKE MASTER CYLINDER RESERVOIR**
 - (a) Using a pin punch and a hammer, punch out the spring pin and remove the brake master cylinder reservoir.
2. **REMOVE BRAKE MASTER CYLINDER KIT**
 - (a) Remove the 2 master cylinder reservoir grommets.



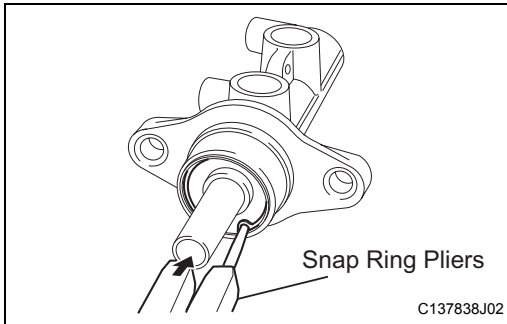


- (b) Keeping the piston pushed in, remove the straight pin.

NOTICE:

Use a rag or similar to prevent damage.

- (c) Secure the master cylinder body in the vise between aluminum plates.

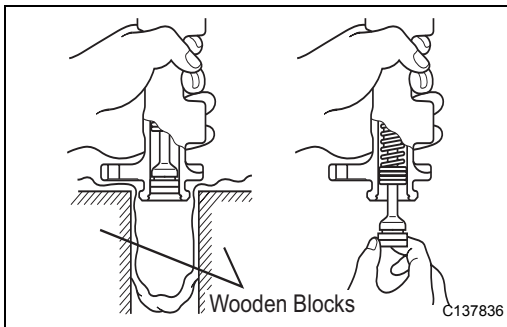


- (d) Push in the piston, and remove the snap ring using the snap ring pliers.

- (e) Remove the No. 1 piston sub-assembly by pulling it out in a straight line from the master cylinder body.

NOTICE:

Do not damage the inside of the cylinder body.



- (f) Tap the flange lightly with a wooden block until the end face of the No. 2 piston comes out. Then remove the No. 2 piston by pulling it out in a straight line from the master cylinder body.

NOTICE:

Do not damage the inside of the cylinder body.

REASSEMBLY

1. INSTALL BRAKE MASTER CYLINDER KIT

- (a) Apply brake fluid (DOT3) to a new No. 2 piston, No. 1 piston, and each cylinder cap.

- (b) Install the No. 2 piston sub-assembly to the master cylinder body.

NOTICE:

To avoid damaging the inside of the cylinder, insert the piston straight.

- (c) Install the No. 2 piston sub-assembly to the master cylinder body straight.

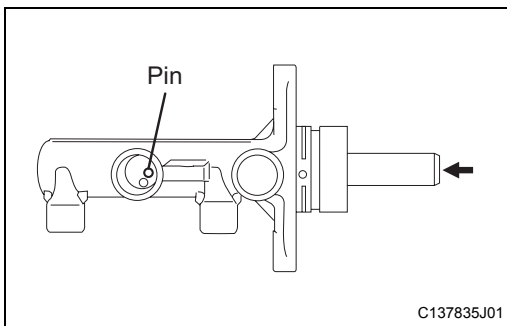
NOTICE:

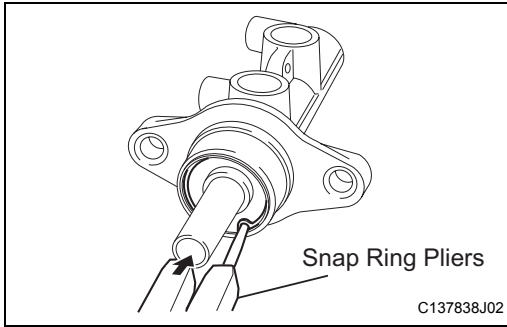
- To avoid damaging the inside of the cylinder, insert the piston straight.
- Do not damage the lip part of the cylinder cup.

- (d) Keeping the piston pushed in, insert the straight pin from the port of the reservoir attachment part.

NOTICE:

Make sure that the straight pin and piston are securely installed.

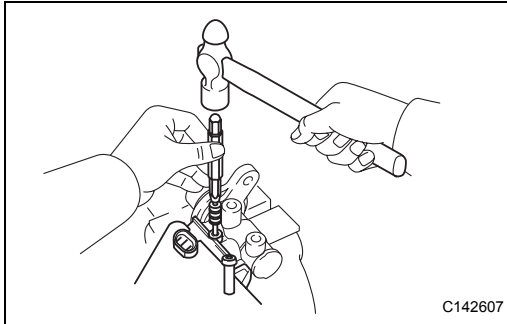




- (e) With the piston pushed in, install a new snap ring using the snap ring pliers.

2. INSTALL BRAKE MASTER CYLINDER RESERVOIR

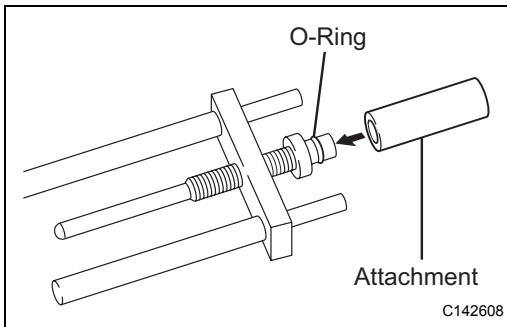
- (a) Coat the inside of 2 new brake master cylinder reservoir grommets with brake fluid (DOT3) and coat the outside with brake grease. Then install the grommets on the master cylinder body.
- (b) Install the brake master cylinder reservoir to the master cylinder body.



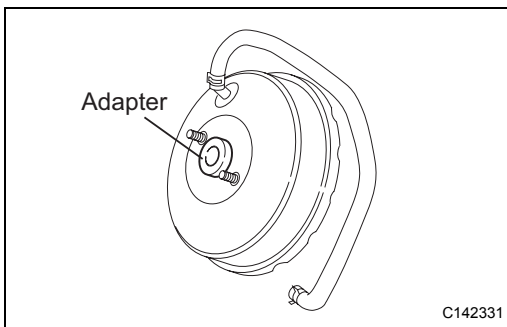
- (c) Using a pin punch and a hammer, tap in a spring pin.

3. INSPECT BRAKE BOOSTER PUSH ROD

SST 09730-87401



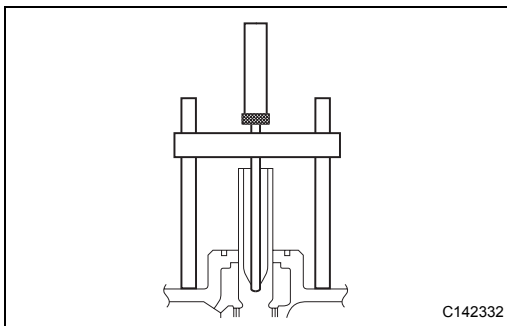
- (a) Install the O-ring into the groove of the rod of the gauge (SST). Then install the attachment (SST) as shown in the illustration. Coat the surface of the attachment (SST) with brake grease.

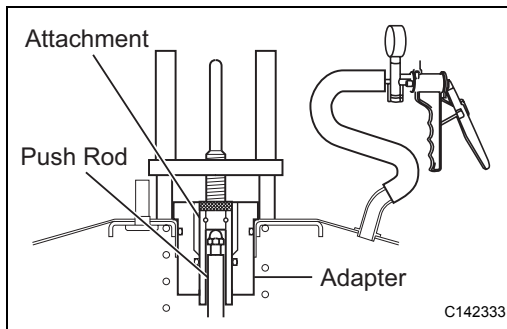


- (b) Install the adapter (SST) to the booster.

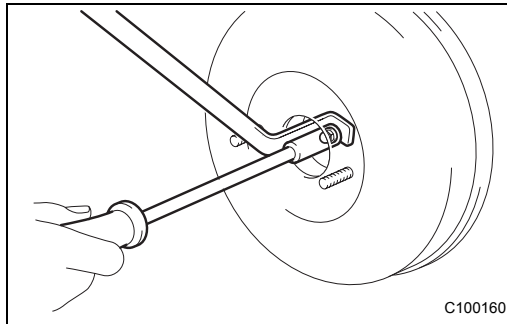
HINT:

Coat the surface of the adapter (SST) with grease for easier installation of the attachment.





- (d) Install the SST to the booster side. Using the MIGHTY VAC, apply vacuum of approximately 66.7 kpa (500 mm Hg) to the booster and check the clearance between the SST rod and the booster push rod.

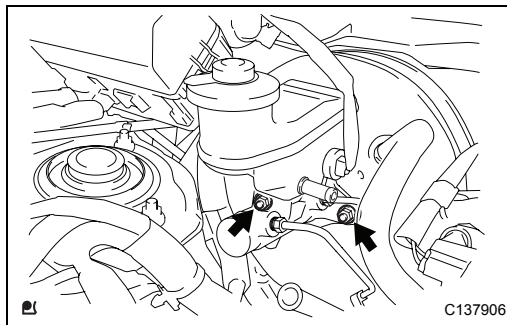
Standard:**Clearance 0 mm**

- (e) If the clearance does not meet the specified value, use the SST to secure the rod and adjust the length by turning the tip of the rod using a socket driver (7 mm).

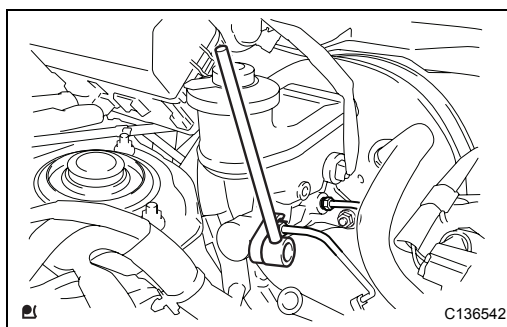
NOTICE:**After adjusting the rod, re-inspect the push rod clearance.**

INSTALLATION

1. INSTALL BRAKE MASTER CYLINDER ASSEMBLY SST O9023-00100



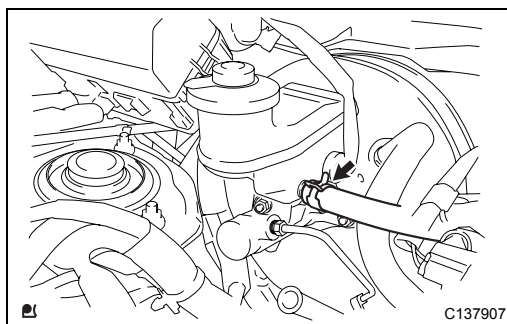
- (a) Install the master cylinder with the 2 nuts.

Torque: 13.0 N*m (133 kgf*cm)

- (b) Using the SST, connect the 2 brake tubes to the master cylinder.

Torque: 15.2 N*m (155 kgf*cm)

- (c) Connect the fluid level warning switch connector.



2. CONNECT CLUTCH MASTER CYLINDER TO FLEXIBLE HOSE TUBE (MANUAL TRANSMISSION)

- (a) Connect the clutch master cylinder to flexible hose tube using the clip.

3. CONNECT NEGATIVE BATTERY TERMINAL

4. BLEED AIR FROM BRAKE SYSTEM (WITHOUT VSC) (See page BR-5)

5. BLEED AIR FROM BRAKE SYSTEM (WITH VSC)(See page BR-7)

6. CHECK FOR BRAKE FLUID LEAKS

