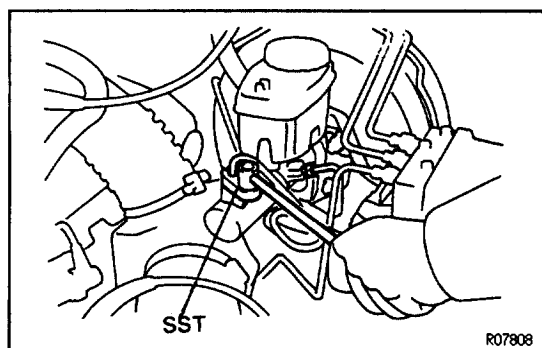
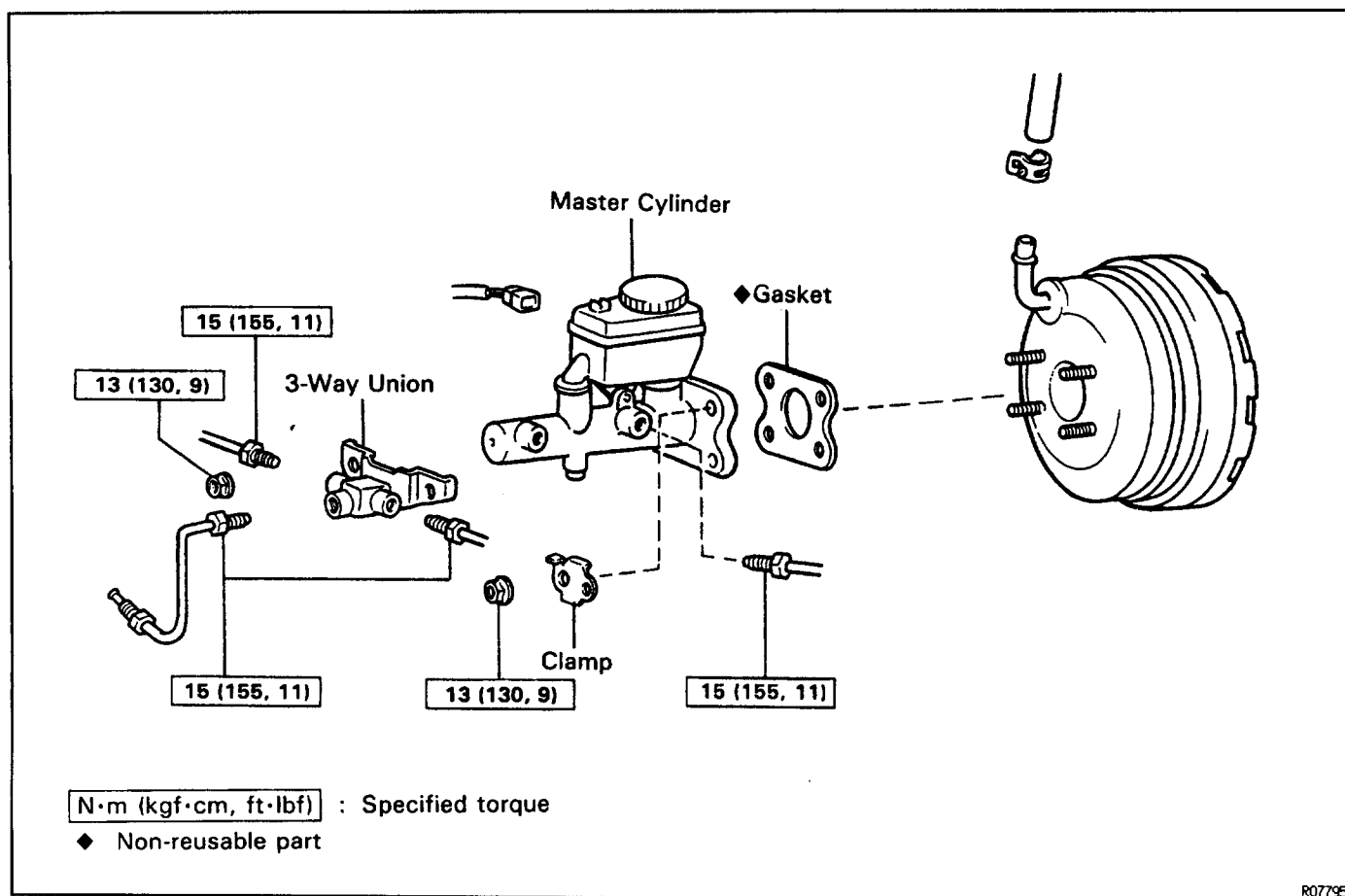
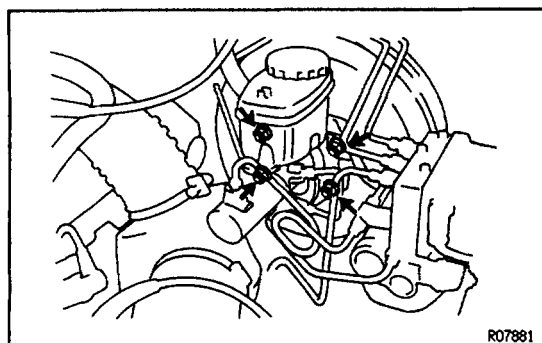


# MASTER CYLINDER

## MASTER CYLINDER REMOVAL

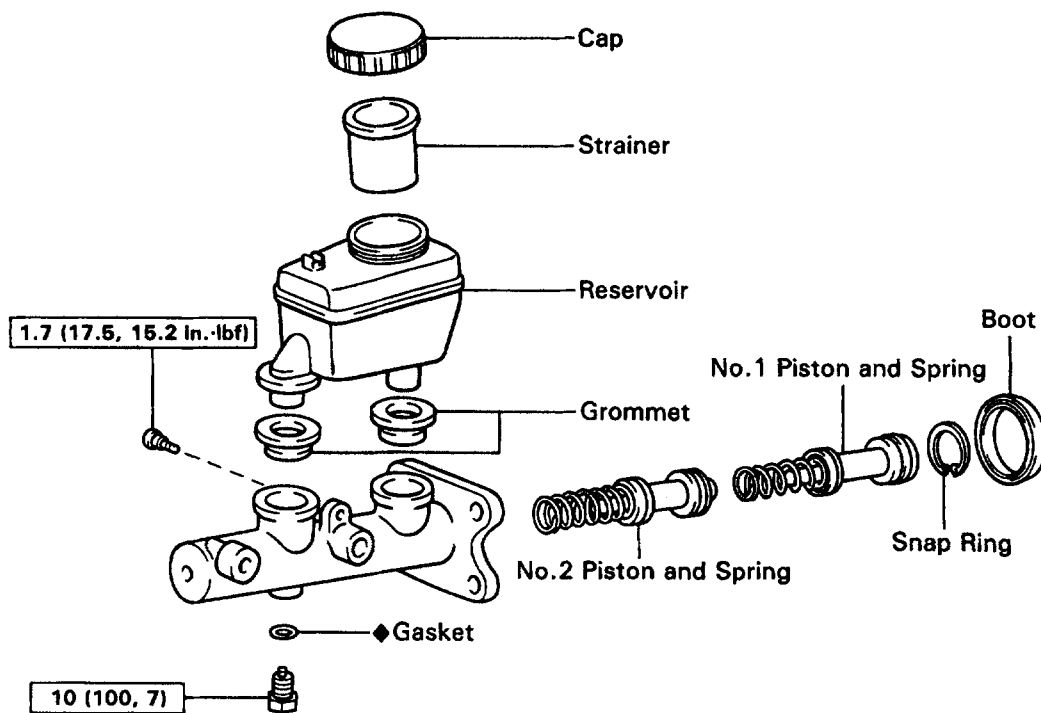


1. **DISCONNECT LEVEL WARNING SWITCH CONNECTOR**
2. **TAKE OUT FLUID WITH SYRINGE**  
**NOTICE:** Do not let brake fluid remain on a painted surface. Wash it off immediately.
3. **DISCONNECT BRAKE LINES**  
Using SST, disconnect the brake lines from the master cylinder.  
SST 09751-36011



4. **REMOVE MASTER CYLINDER**
  - (a) Remove the 4 nuts and 3-way union.
  - (b) Remove the clamp.
  - (c) Remove the master cylinder and gasket from the brake booster.

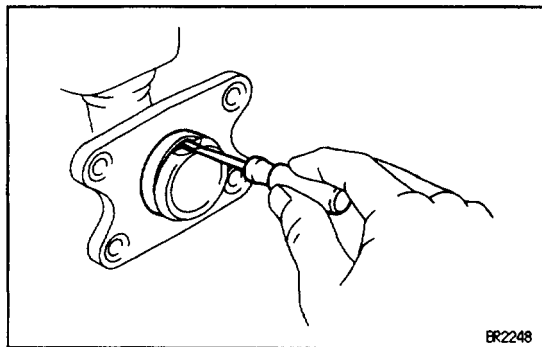
## COMPONENTS



N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

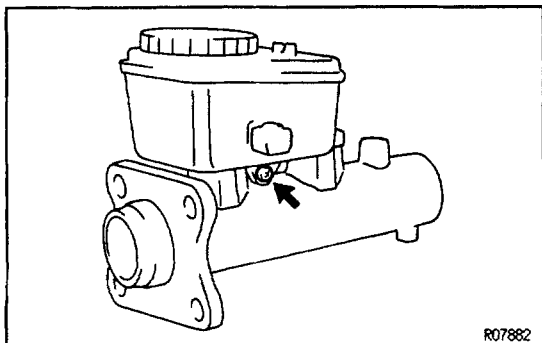
R07796



## MASTER CYLINDER DISASSEMBLY

### 1. REMOVE MASTER CYLINDER BOOT

Using a screwdriver, remove the master cylinder boot.

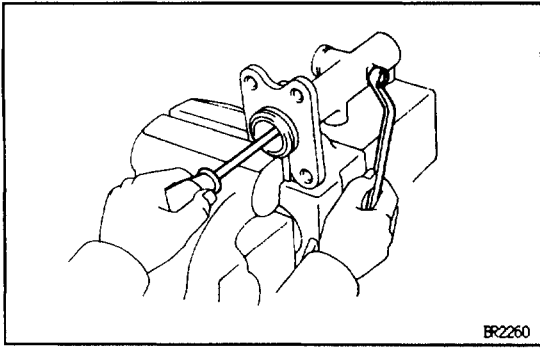


### 2. REMOVE RESERVOIR

- (a) Remove the set screw and pull out the reservoir.
- (b) Remove the cap and strainer from the reservoir.

### 3. REMOVE 2 GROMMETS

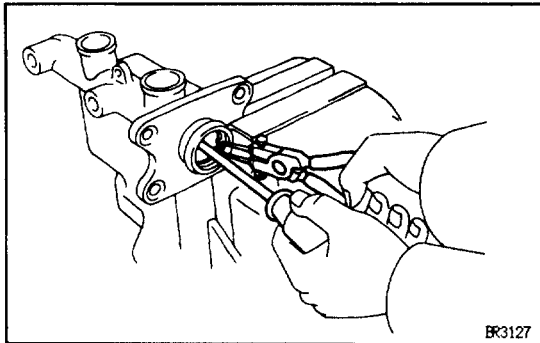
### 4. PLACE CYLINDER IN VISE



### 5. REMOVE PISTON STOPPER BOLT

Using a screwdriver, push the pistons in all the way and remove the piston stopper bolt and gasket.

HINT: Tape the screwdriver tip before use.

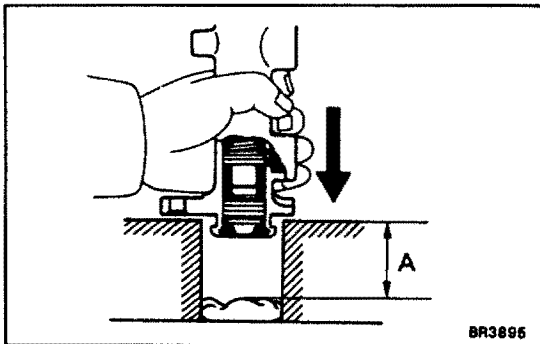


### 6. REMOVE PISTONS AND SPRINGS

(a) Push in the piston with a screwdriver and remove the snap ring with snap ring pliers.

(b) Remove the No.1 piston and spring by hand, pulling straight out, not at an angle.

**NOTICE:** If pulled out at an angle, there is a possibility of damaging the cylinder bore.



(c) Place a rag and 2 wooden blocks on the work table, and lightly tap the cylinder flange against the block edges until the No.2 piston drops out of cylinder.

HINT: Make sure the distance (A) from the rag to the top of the blocks is at least 100 mm (3.94 in.).

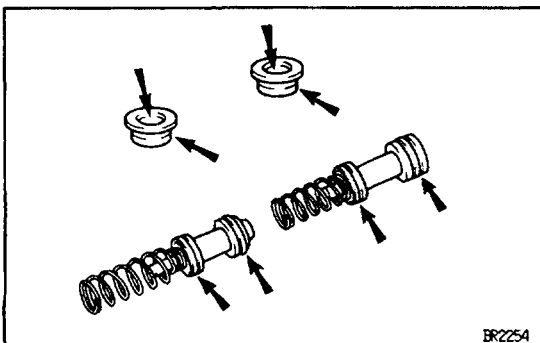
## MASTER CYLINDER COMPONENTS INSPECTION

HINT: Clean the disassembled parts with compressed air.

1. **INSPECT CYLINDER BORE FOR RUST OR SCORING**

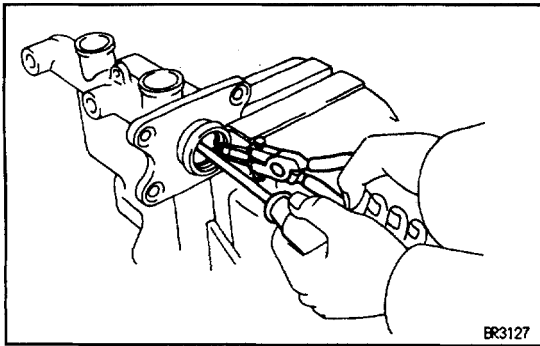
2. **INSPECT CYLINDER FOR WEAR OR DAMAGE**

If necessary, clean or replace the cylinder.



## MASTER CYLINDER ASSEMBLY

1. **APPLY LITHIUM SOAP BASE GLYCOL GREASE TO RUBBER PARTS INDICATED BY ARROWS**

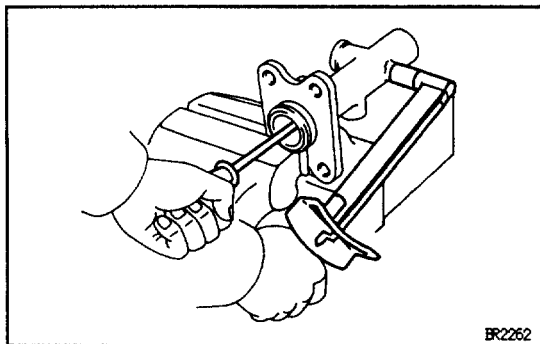


## 2. INSTALL PISTONS AND SPRINGS

**NOTICE:** Be careful not to damage the rubber lips on the pistons.

- (a) Insert the 2 springs and pistons straight in, not at an angle.  
**NOTICE:** If inserted at an angle, there is a possibility of damaging the cylinder bore.
- (b) Push in the piston with a screwdriver and install the snap ring with snap ring pliers.

**HINT:** Tape the screwdriver tip before use.

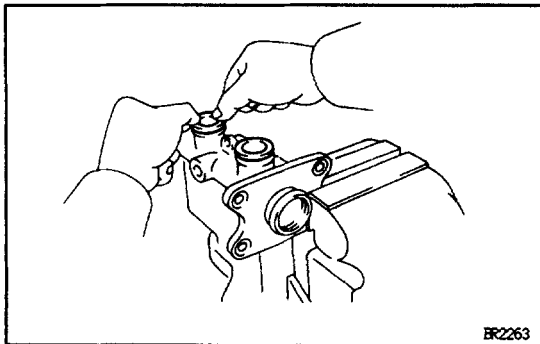


## 3. INSTALL PISTON STOPPER BOLT

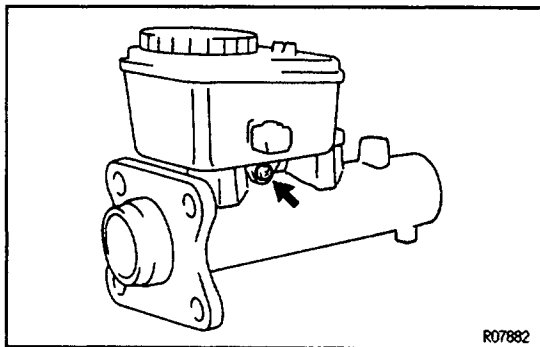
Using a screwdriver, push the piston in all the way and install the piston stopper bolt over a new gasket.

**Torque the bolt.**

**Torque:** 10 N·m (100 kgf·cm, 7 ft·lbf)



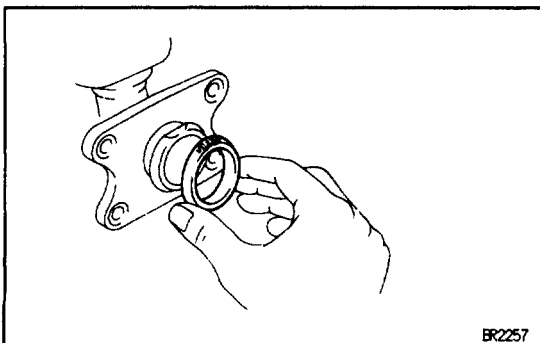
## 4. INSTALL 2 GROMMETS



## 5. INSTALL RESERVOIR

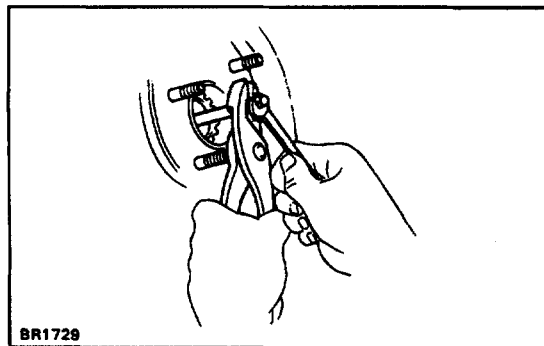
- (a) Install the cap and strainer to the reservoir.
- (b) Push the reservoir onto the cylinder.
- (c) Install the set screw while pushing on the reservoir.

**Torque:** 1.7 N·m (17.5 kgf·cm, 15.2 in·lbf)



## 6. INSTALL MASTER CYLINDER BOOT

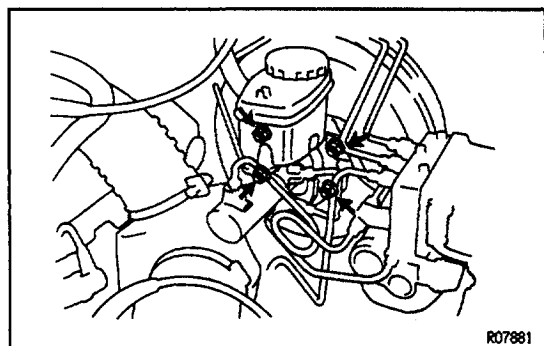
Facing the up mark on the master cylinder boot upwards, install the cylinder boot to the master cylinder.



## MASTER CYLINDER INSTALLATION

1. **ADJUST LENGTH OF BRAKE BOOSTER PUSH ROD BEFORE INSTALLING MASTER CYLINDER**

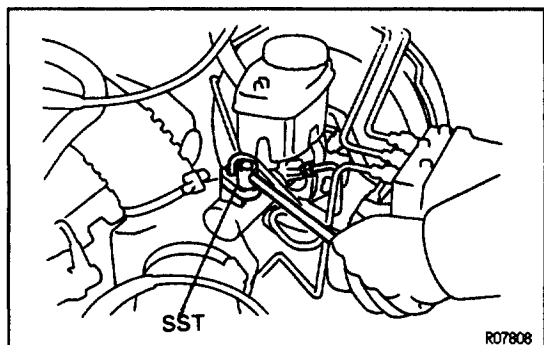
(See page [BR-17](#))



2. **INSTALL MASTER CYLINDER**

Install the master cylinder and gasket on the brake booster with 4 nuts.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)



3. **CONNECT BRAKE LINES**

Using SST, connect the brake lines to the master cylinder. Torque the union nuts.

SST 09751-36011

Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)

4. **CONNECT LEVEL WARNING SWITCH CONNECTOR**
5. **FILL BRAKE RESERVOIR WITH BRAKE FLUID AND BLEED BRAKE SYSTEM**

(See page [BR-9](#))

6. **CHECK FOR FLUID LEAKAGE**
  7. **CHECK AND ADJUST BRAKE PEDAL**
- (See page [BR-7](#))