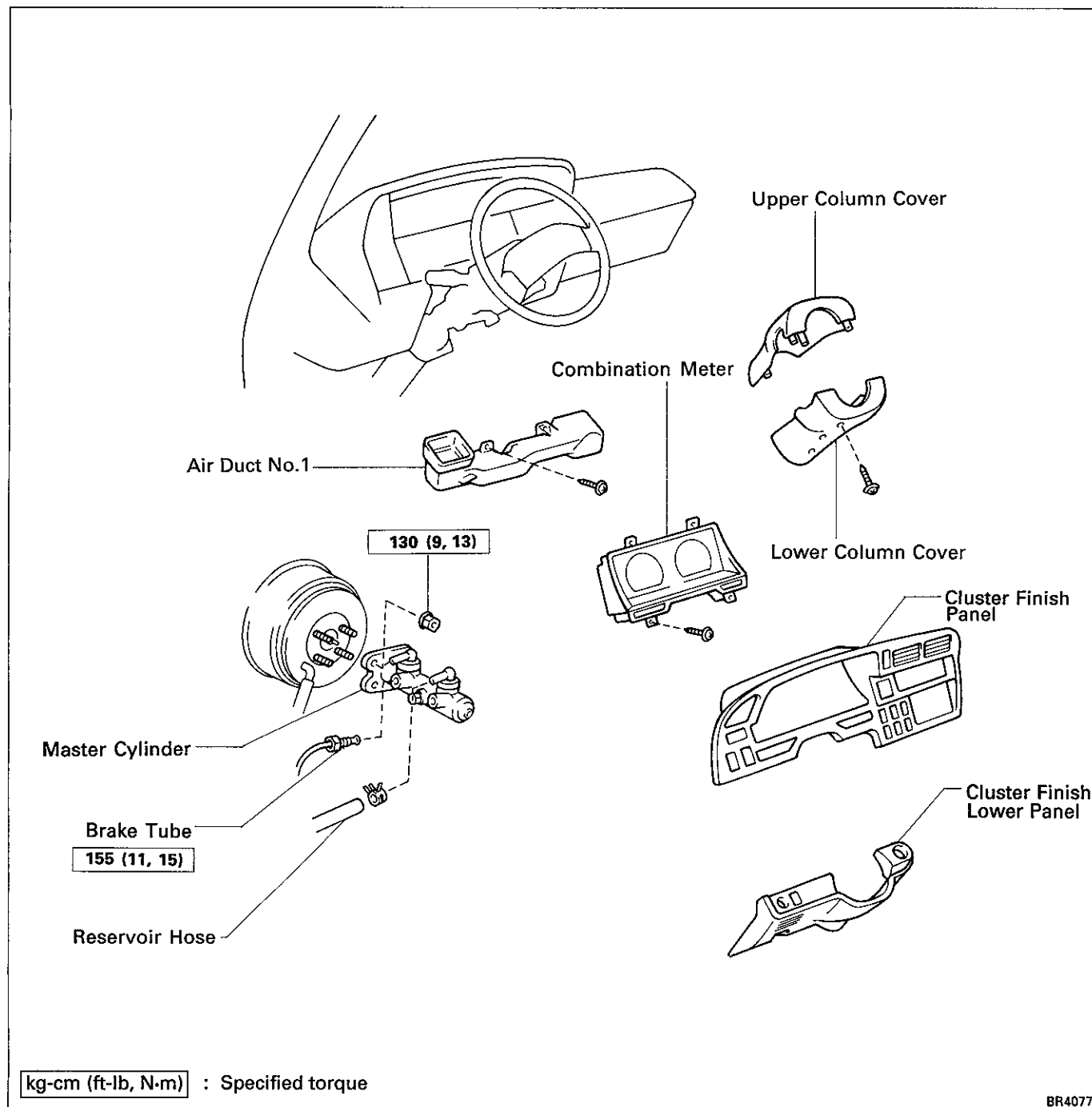


# MASTER CYLINDER

## REMOVAL OF MASTER CYLINDER

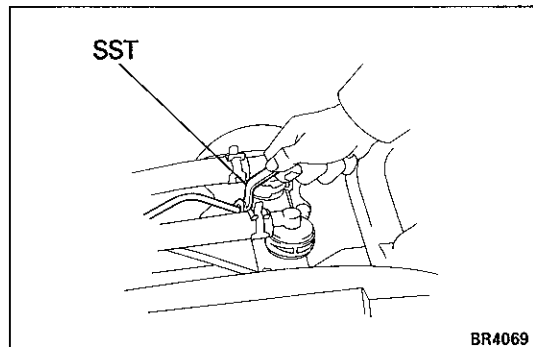


BR4077

1. **DISCONNECT NEGATIVE CABLE FROM BATTERY TERMINAL**
2. **REMOVE FOLLOWING PARTS**
  - (a) Lower column cover
  - (b) Upper column cover
  - (c) Cluster finish lower panel
  - (d) Combination meter
  - (e) Air duct No.1

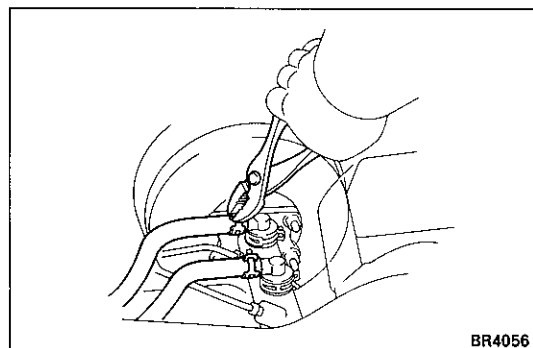
**3. TAKE OUT FLUID WITH SYRINGE**

**NOTICE:** Do not let brake fluid remain on a painted surface. Wash it off immediately.

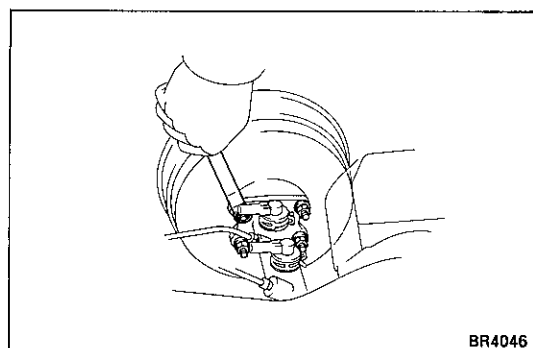
**4. DISCONNECT TWO BRAKE TUBES**

Using SST, disconnect the two brake tubes from the master cylinder.

SST 09751-36011

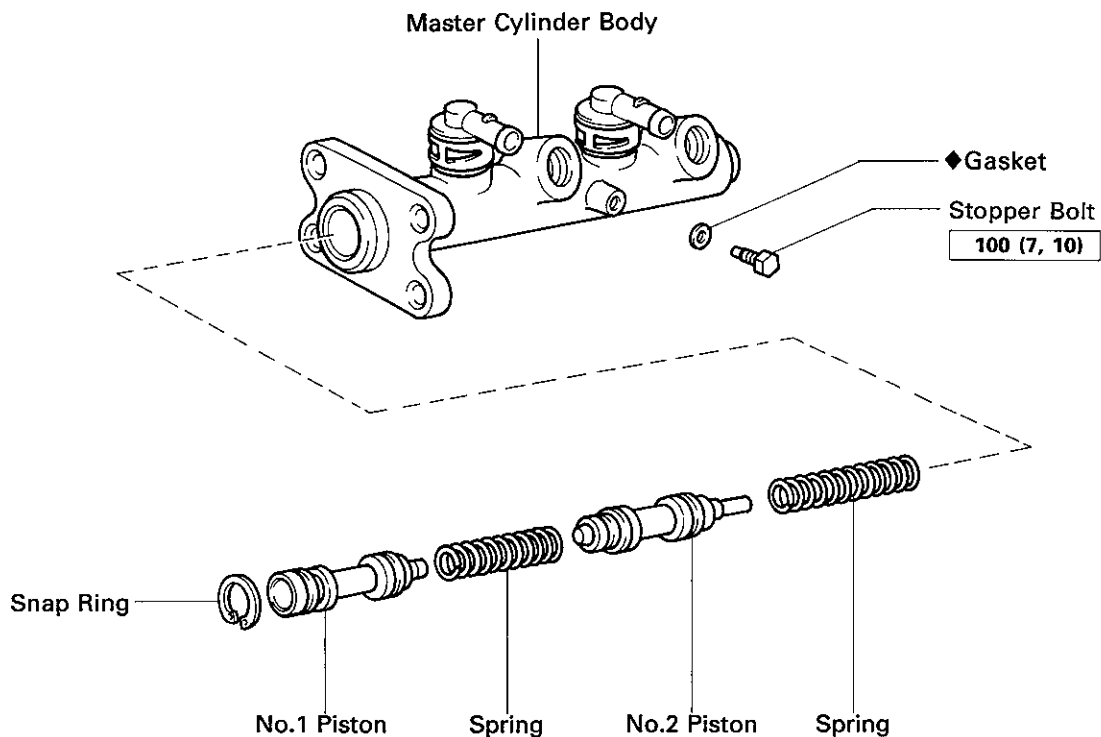
**5. DISCONNECT TWO RESERVOIR HOSES FROM MASTER CYLINDER**

Using pliers, disconnect the two reservoir hoses from the master cylinder.

**6. REMOVE BRAKE MASTER CYLINDER**

Remove the four mounting nuts and then pull out the master cylinder.

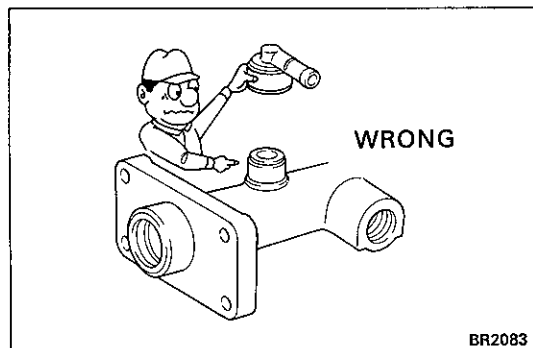
## COMPONENTS



kg-cm (ft-lb, N-m) : Specified torque

◆ Non-reusable part

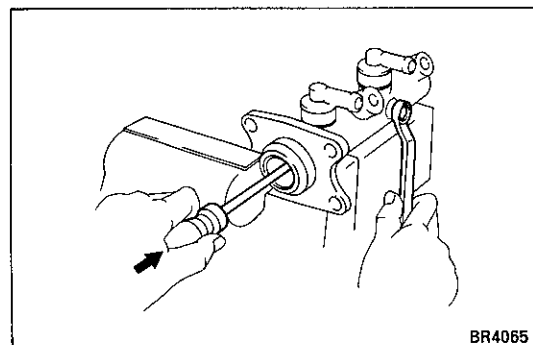
BR4104



## DISASSEMBLY OF MASTER CYLINDER

**NOTICE:** Do not remove the inlet unions from cylinder body.

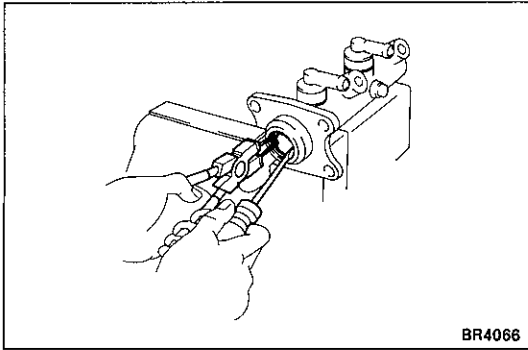
## 1. PLACE CYLINDER IN VISE



## 2. REMOVE PISTON STOPPER BOLT

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

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

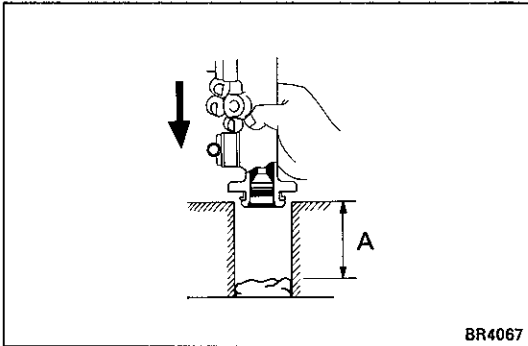


BR4066

### 3. REMOVE TWO 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 angle, there is possibility of damaging the cylinder bore.



BR4067

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

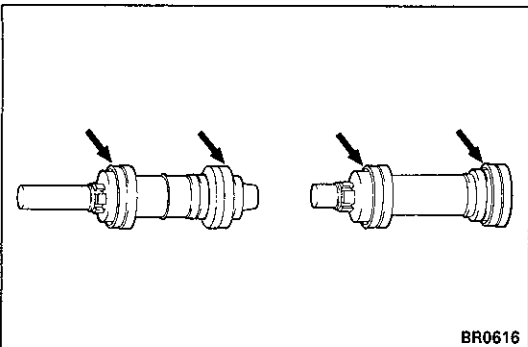
**HINT:** Make sure the distance (A) from the rag to the top of the blocks is at least 100 mm (3.94 in.).

## INSPECTION OF MASTER CYLINDER COMPONENTS

**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.



BR0616

## ASSEMBLY OF MASTER CYLINDER

(See page BR-11)

1. **APPLY LITHIUM SOAP BASE GLYCOL GREASE TO RUBBER PARTS OF PISTONS**
2. **INSTALL TWO SPRINGS AND PISTONS**

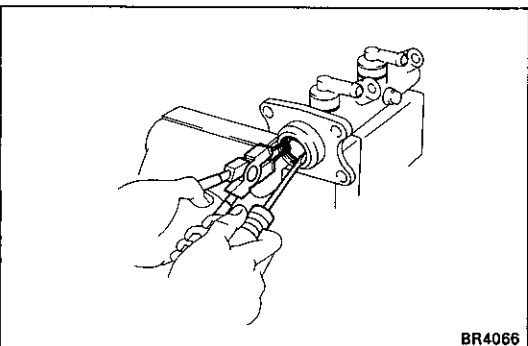
**NOTICE:** Be careful not to damage the rubber lips on the pistons.

- (a) Insert two springs and pistons into the master cylinder housing as shown. (See page BR-12)

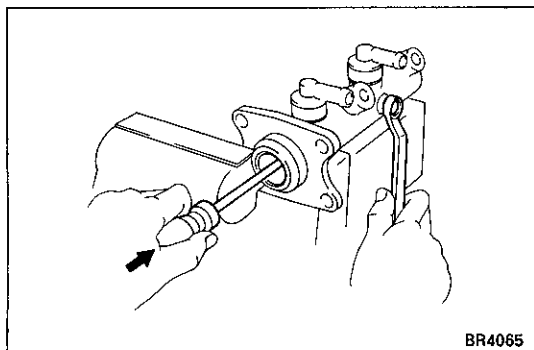
**NOTICE:** If insert at an angle, there is possibility of damaging the cylinder bore.

- (b) Push in the piston with a screwdriver and install the snap ring with snap ring pliers.

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



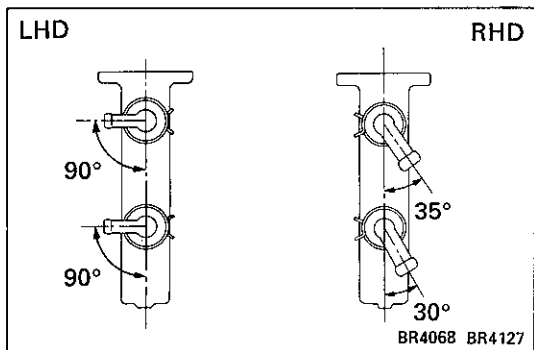
BR4066



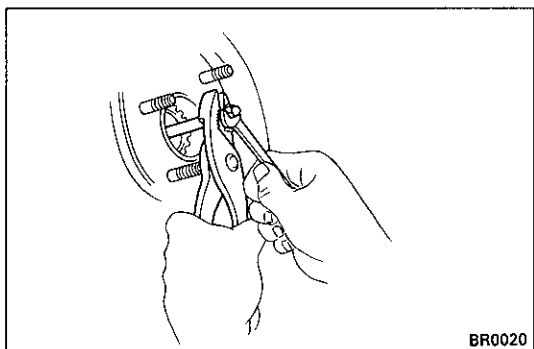
### 3. INSTALL PISTON STOPPER BOLT

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

**Torque: 100 kg-cm (7 ft-lb, 10 N-m)**



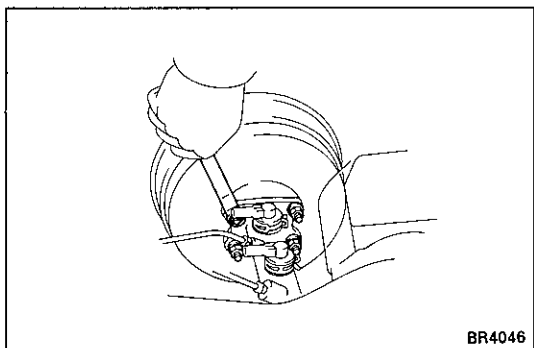
### 4. CHECK ANGLE OF INLET UNIONS



## INSTALLTION OF MASTER CYLINDER

(See page BR-10)

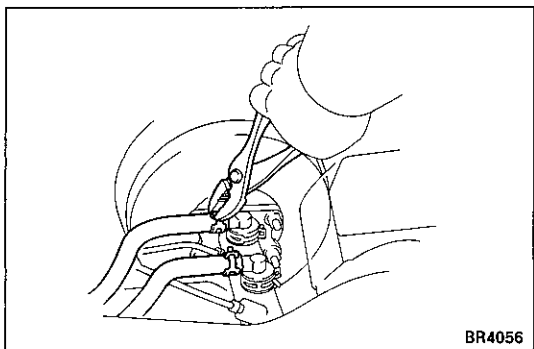
1. **ADJUST LENGTH OF BRAKE BOOSTER PUSH ROD BEFORE INSTALLING MASTER CYLINDER**  
(See step 1 on BR-47)



### 2. INSTALL MASTER CYLINDER

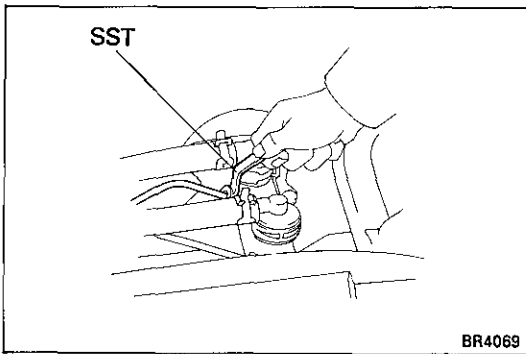
Install the master cylinder to the brake booster with four nuts.

**Torque: 130 kg-cm (9 ft-lb, 13 N-m)**



### 3. CONNECT TWO RESERVOIR HOSES TO MASTER CYLINDER

Using pliers, connect the two reservoir hoses to the master cylinder.

**4. CONNECT TWO BRAKE TUBES**

First, tighten the nuts by finger, then with SST.

SST 09751-36011

**Torque: 155 kg-cm (11 ft-lb, 15 N-m)**

**5. INSTALL FOLLOWING PARTS**

- (a) Air duct NO.1
- (b) Combination meter
- (c) Cluster finish lower panel
- (d) *Upper column cover*
- (e) *Lower column cover*

**6. CONNECT NEGATIVE CABLE TO BATTERY****7. FILL BRAKE RESERVOIR WITH BRAKE FLUID AND BLEED BRAKE SYSTEM (See page BR-7)****8. CHECK FOR FLUID LEAKAGE****9. CHECK AND ADJUST BRAKE PEDAL (See page BR-6)**