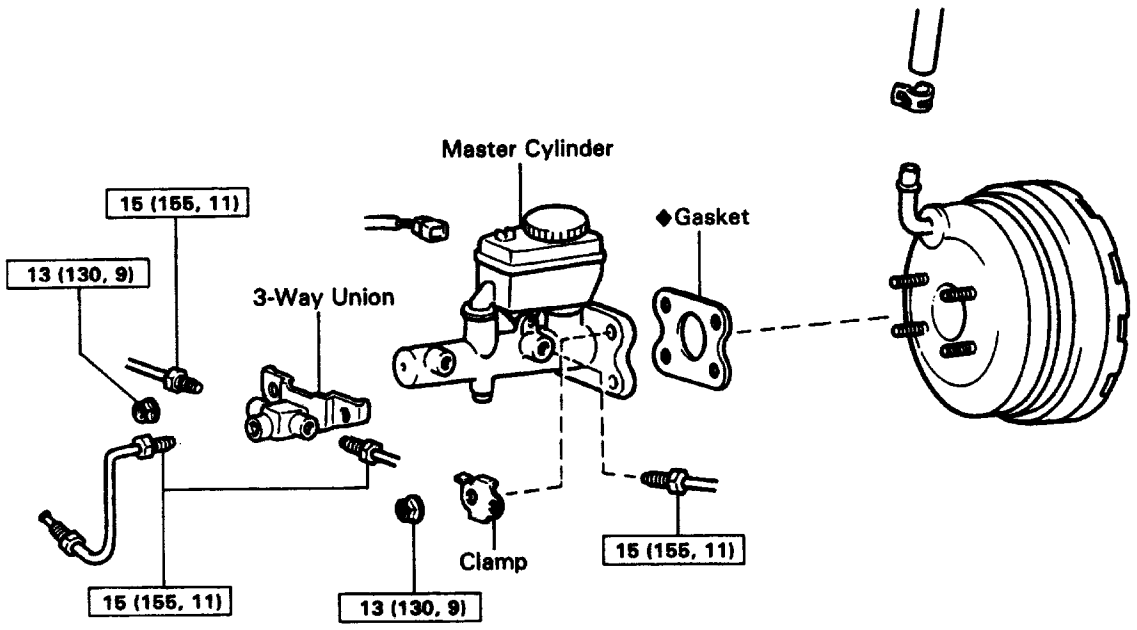
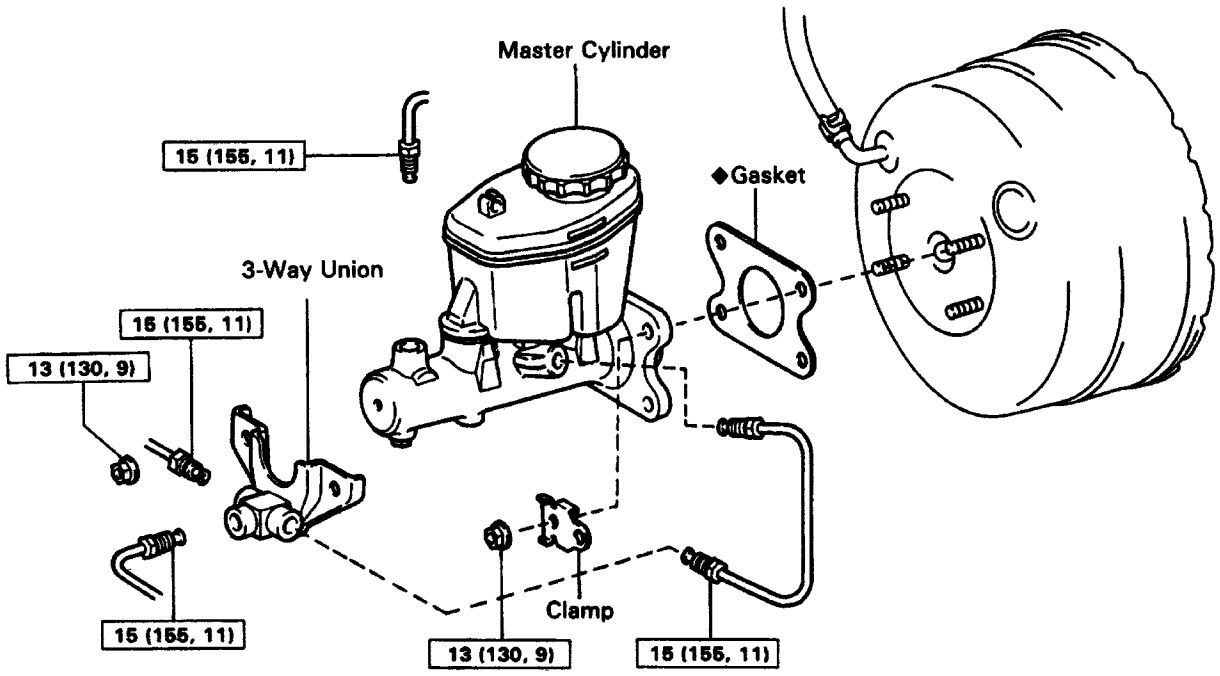
MASTER CYLINDER

MASTER CYLINDER REMOVAL

w/o 4-Wheel ABS



w/ 4-Wheel ABS

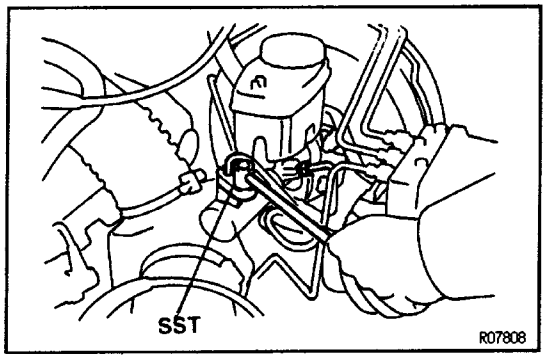


N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

R07795
R07878

Z09792



1. DISCONNECT LEVEL WARNING SWITCH CONNEC–TOR

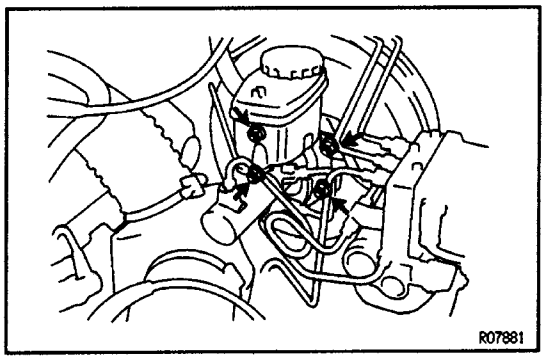
2. TAKE OUT FLUID WITH SYRINGE

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 09023 – 00100



4. REMOVE MASTER CYLINDER

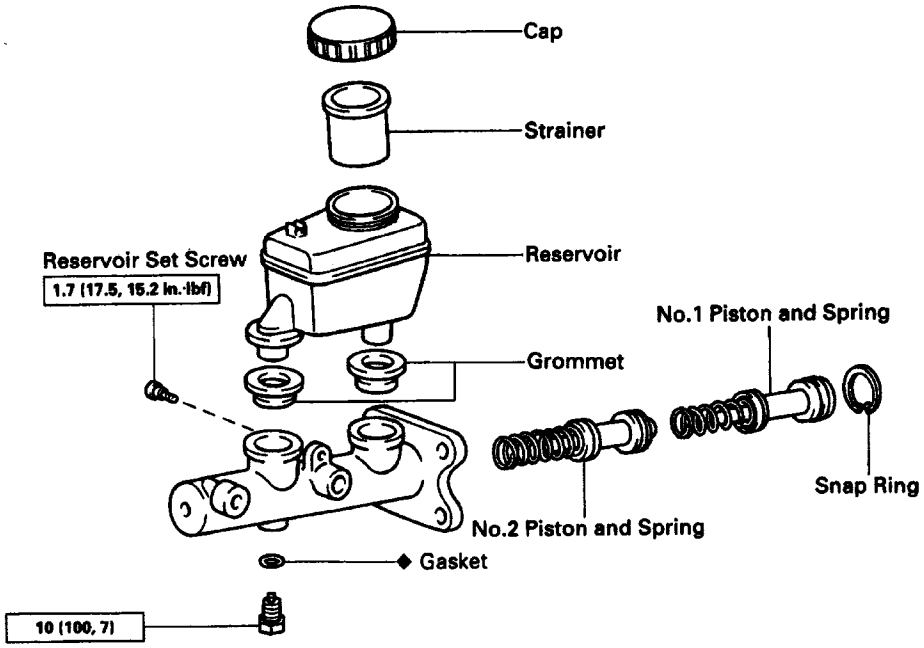
(a) Remove the 4 nuts and 3–way union.

(b) Remove the clamp.

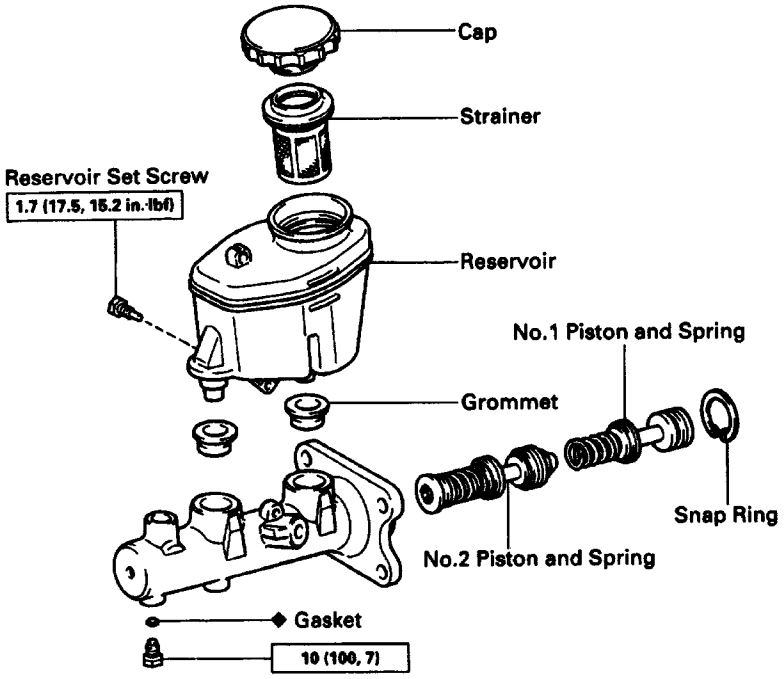
(c) Remove the master cylinder and gasket from the brake booster.

COMPONENTS

w/o 4-Wheel ABS



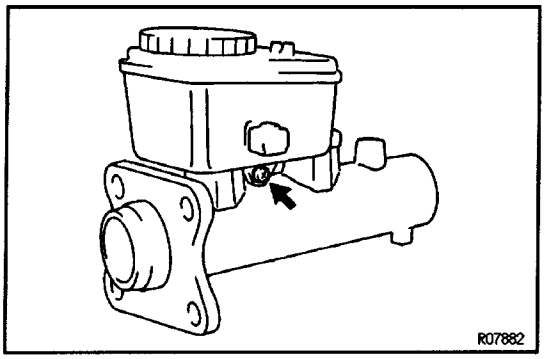
w/ 4-Wheel ABS



N·m (kgf·cm, ft·lbf) : Specified torque
◆ Non-reusable part

R07796
R07797

Z14150



MASTER CYLINDER DISASSEMBLY

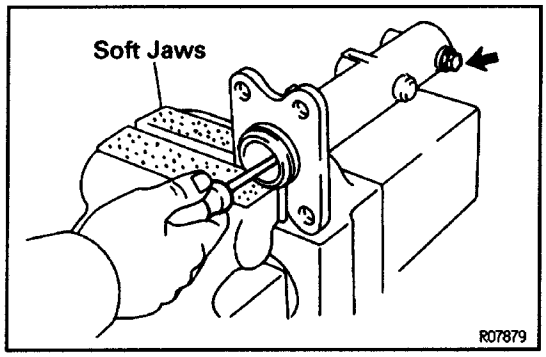
1. REMOVE RESERVOIR

(a) Remove the set screw and pull out the reservoir.

(b) Remove the cap and strainer from the reservoir.

2. REMOVE 2 GROMMETS

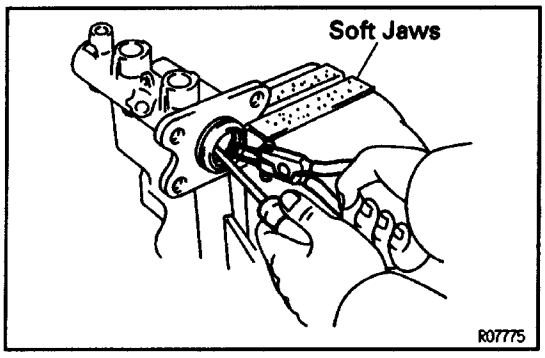
3. PLACE CYLINDER IN VISE



4. 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.

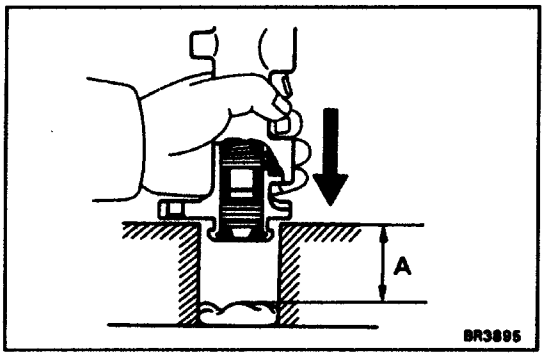


5. REMOVE PISTONS AND SPRINGS

(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 the cylinder.

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

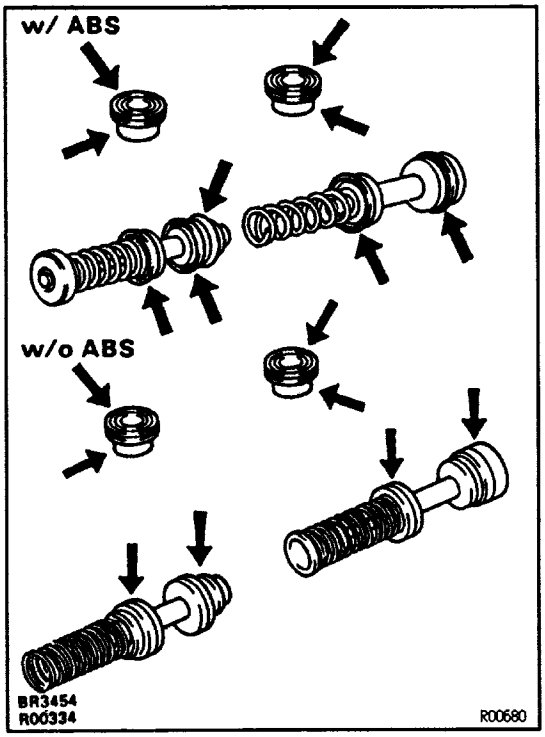
MASTER CYLINDER COMPONENTS INSPECTION

HINT: Clean the disassembled parts with compressed air.

1. INSPECT CYLINDER BORE FOR RUST OR SCORING

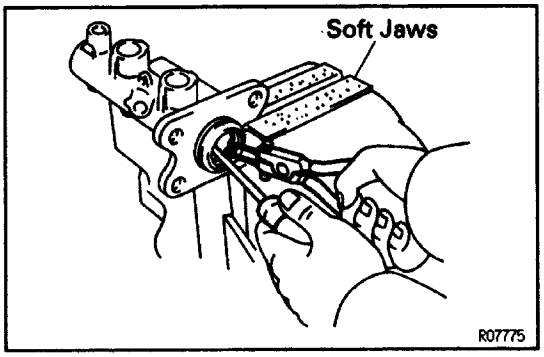
2. INSPECT CYLINDER FOR WEAR OR DAMAGE

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

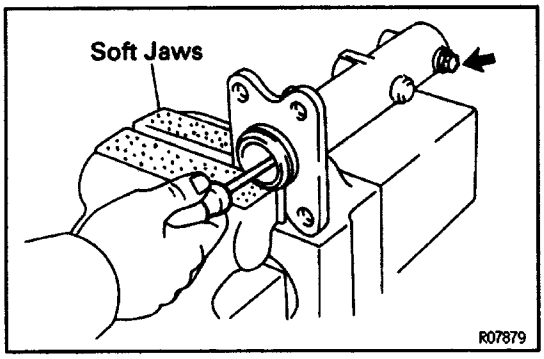
NOTICE: Be careful not to damage the rubber lips on the pistons.

(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.

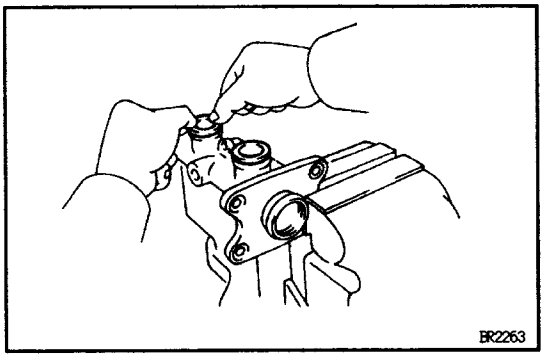
HINT: Tape the screwdriver tip before use.



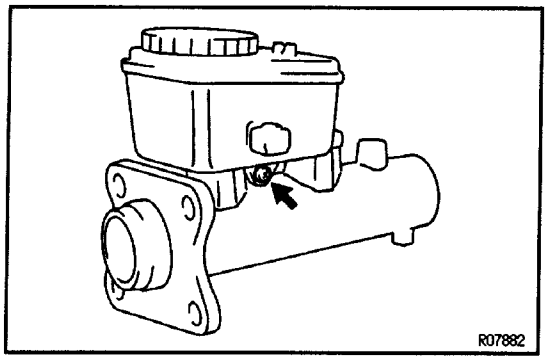
3. INSTALL PISTON STOPPER BOLT

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

Torque: 10 N–m (100 kgf–cm, 7 ft–lbf)

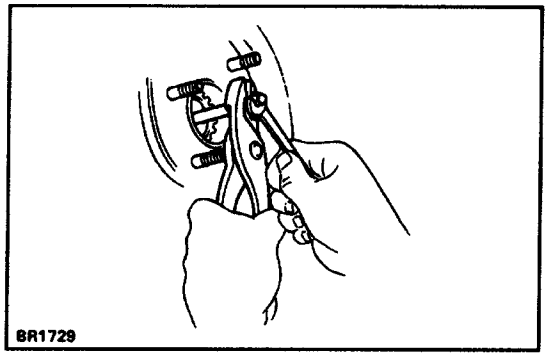


4. INSTALL 2 GROMMETS



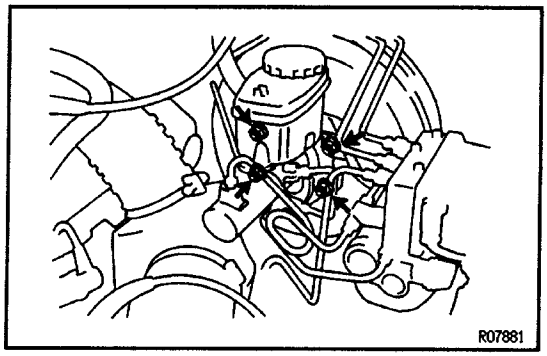
5. INSTALL RESERVOIR

(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)



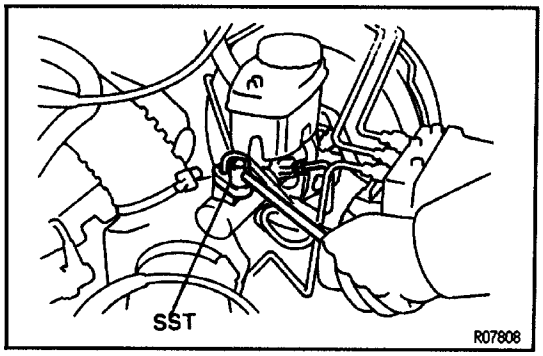
MASTER CYLINDER INSTALLATION

1. ADJUST LENGTH OF BRAKE BOOSTER PUSH ROD BEFORE INSTALLING MASTER CYLINDER
(See page BR–17**)**



2. INSTALL MASTER CYLINDER

Install the master cylinder, 3–way union, clamp 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 09023 – 00100
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–8**)**

6. CHECK FOR FLUID LEAKAGE

7. CHECK AND ADJUST BRAKE PEDAL
(See page BR–7**)**