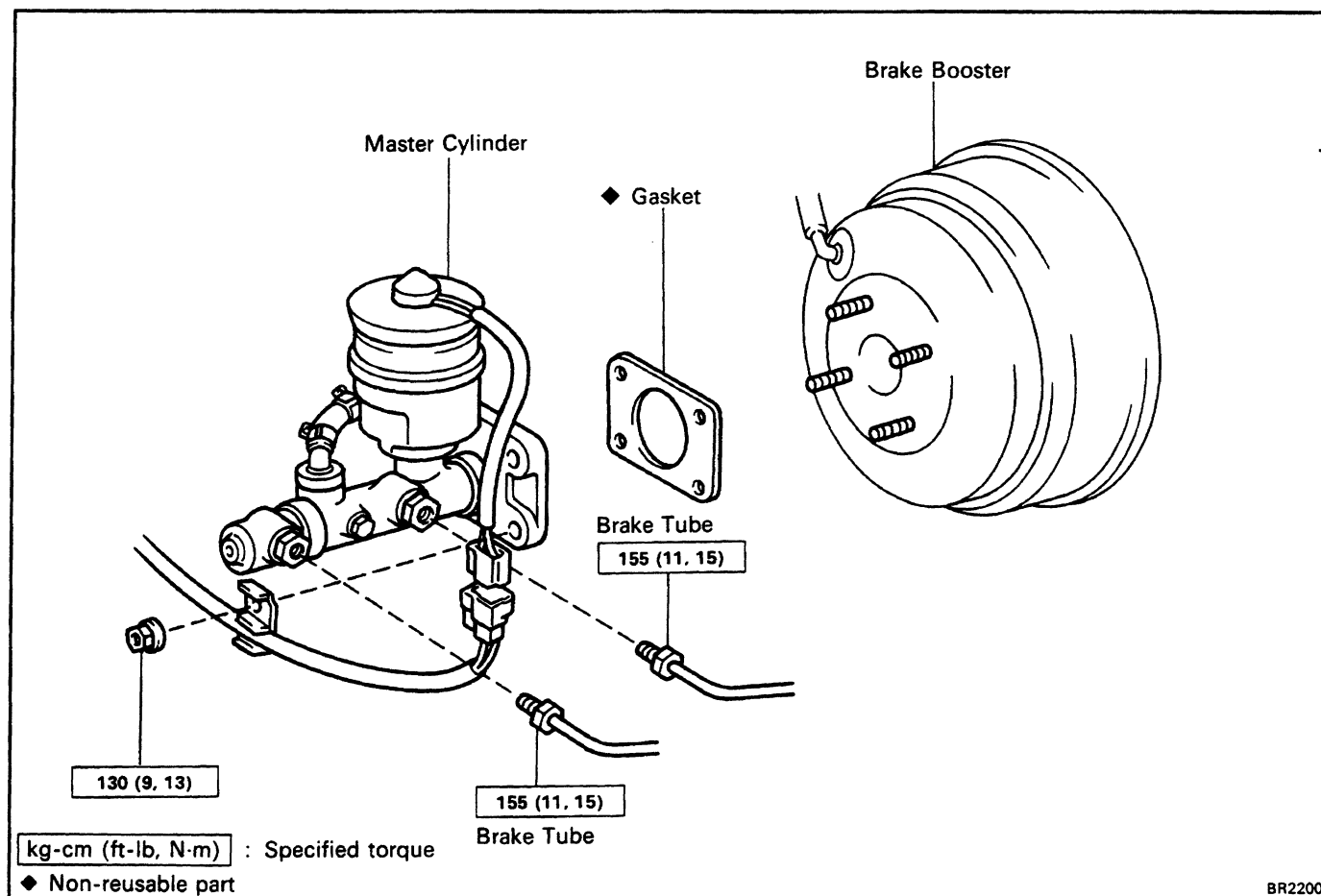
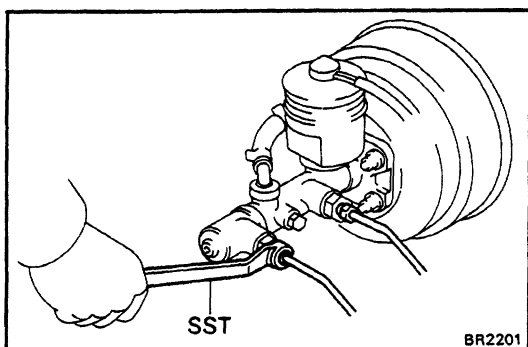


MASTER CYLINDER

REMOVAL OF MASTER CYLINDER Components

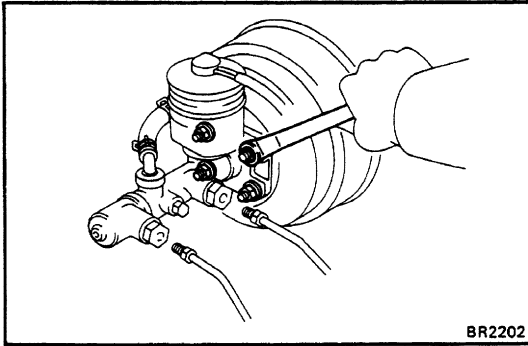


1. DISCONNECT LEVEL WARNING SWITCH CONNECTOR
2. TAKE OUT FLUID WITH SYRINGE OR SUCH
NOTICE: Do not let brake fluid remain on a painted surface.
Wash it off immediately.



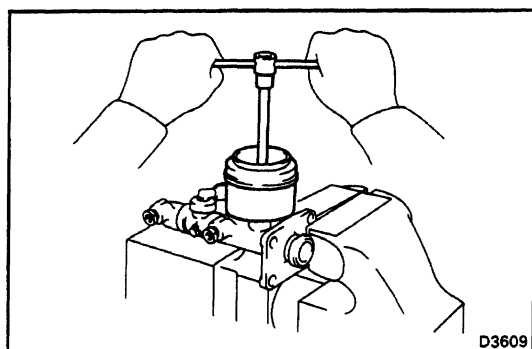
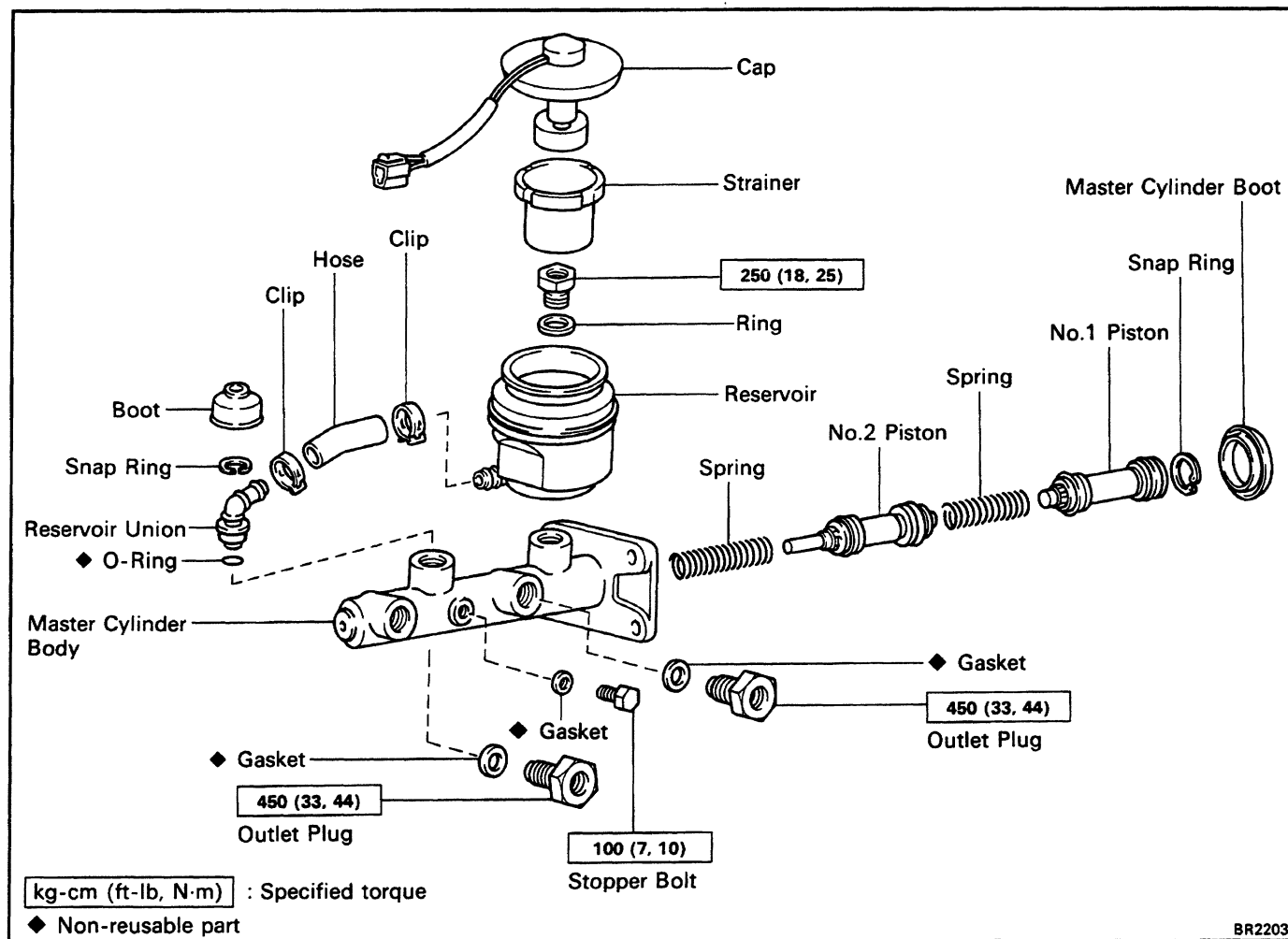
3. DISCONNECT TWO BRAKE TUBES

Using SST, disconnect two brake tubes from the master cylinder.
SST 09751-36011

**4. REMOVE MASTER CYLINDER**

- (a) Remove the four nuts.
- (b) Remove the master cylinder, clamp and gasket from the brake booster.

DISASSEMBLY OF MASTER CYLINDER Components

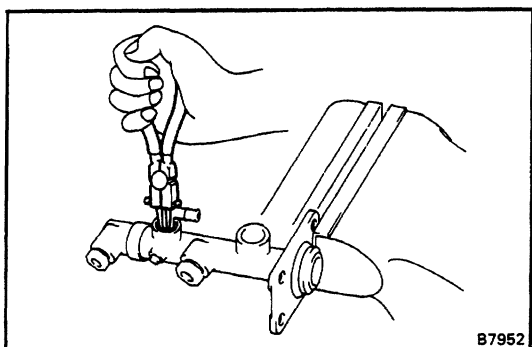


1. PLACE CYLINDER IN VISE

2. REMOVE RESERVOIR AND HOSE

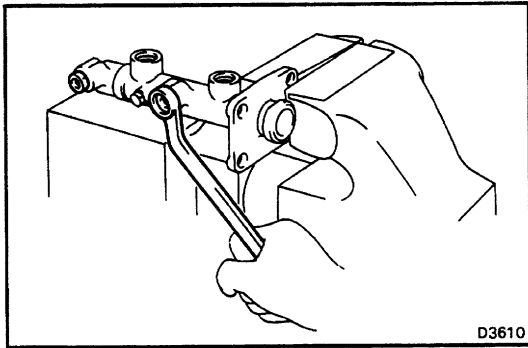
- Remove the set bolt from the reservoir.
- Remove the reservoir with the hose from the master cylinder.

3. REMOVE BOOT



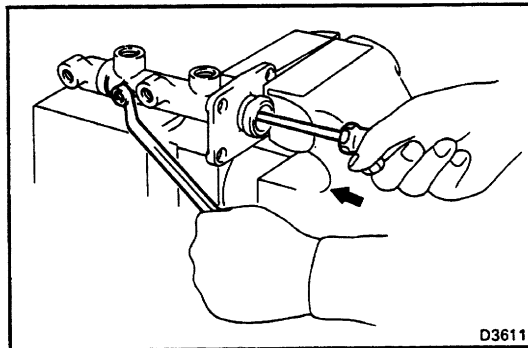
4. REMOVE RESERVOIR UNION

- Using snap ring pliers, remove the snap ring.
- Remove the reservoir union and O-ring.



5. REMOVE OUTLET PLUGS

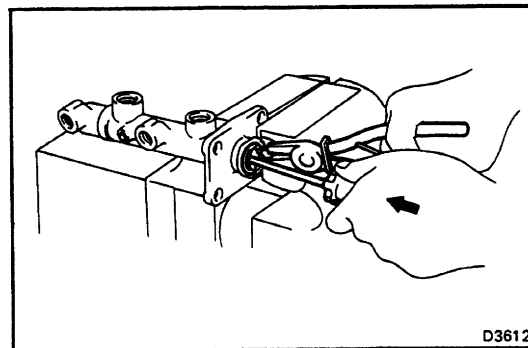
Remove the two outlet plugs and gaskets.



6. 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.

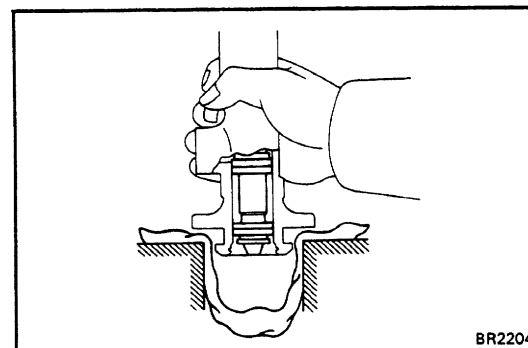


7. REMOVE TWO PISTONS AND SPRINGS

(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 an angle, there is possibility of damaging the cylinder bore.



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

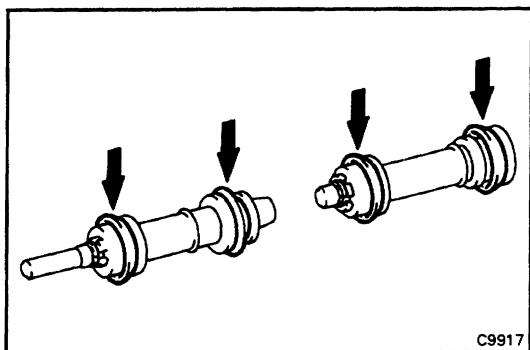
INSPECTION OF MASTER CYLINDER COMPONENTS

HINT: Clean the disassembled parts with compressed air.

1. INSPECT CYLINDER BORE FOR RUST AND SCORING

2. INSPECT CYLINDER FOR WEAR OR DAMAGE

If necessary, clean or replace the cylinder.



ASSEMBLY OF MASTER CYLINDER

(See page [BR-11](#))

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

2. INSTALL TWO SPRINGS AND PISTONS

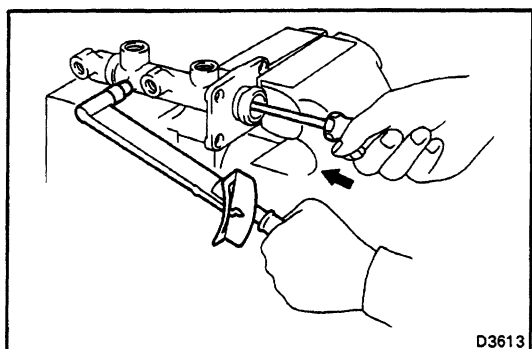
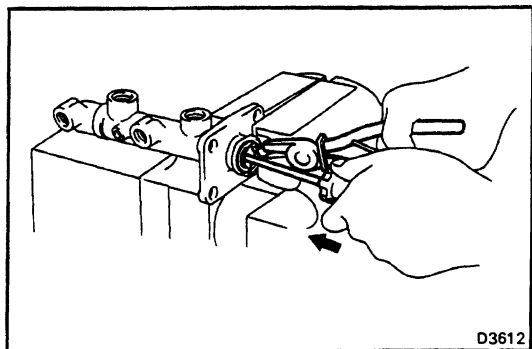
NOTICE: Be careful not to damage the rubber lips on the pistons.

- (a) Insert two springs and pistons straight in, not at an angle.

NOTICE: If inserted 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.

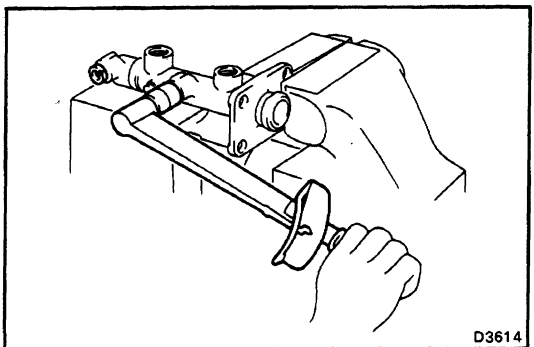


3. INSTALL PISTON STOPPER BOLT AND NEW GASKET

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

Torque the bolt.

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

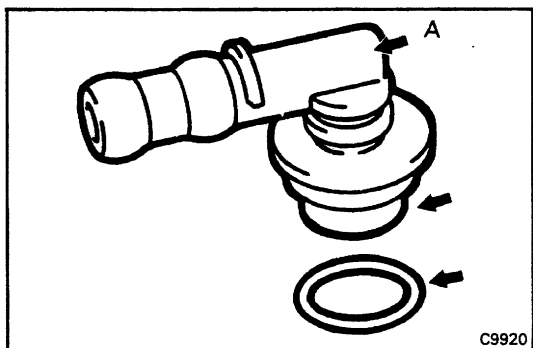


4. INSTALL OUTLET PLUGS

Install the two outlet plugs over a new gasket.

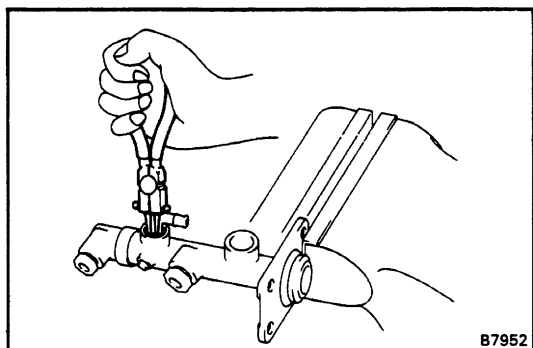
Torque the plugs.

Torque: 450 kg-cm (33 ft-lb, 44 N-m)

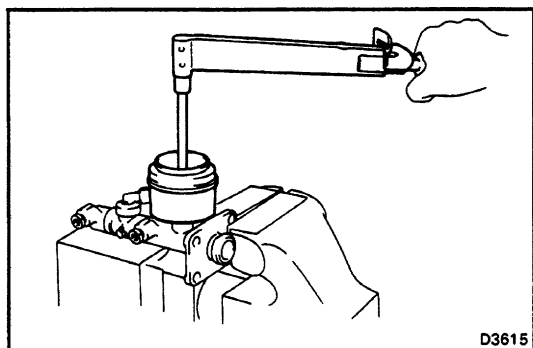


5. INSTALL RESERVOIR UNION

- (a) Apply lithium soap base glycol grease to the reservoir union.
- (b) Pack the lithium soap base glycol on the union (A).



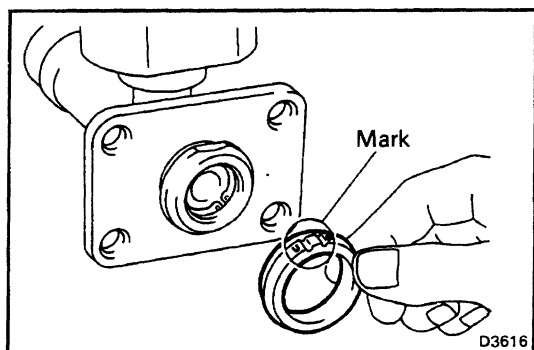
- (c) Install the union over a new O-ring.
- (d) Using snap ring pliers, install the new snap ring.
- (e) Install the bolt.



6. INSTALL RESERVOIR AND HOSE

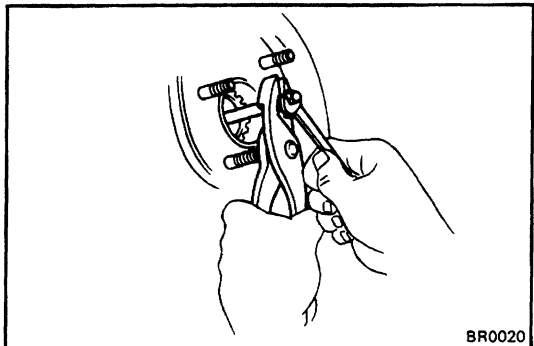
- (a) Connect the hose to union and reservoir.
- (b) Install the reservoir on the master cylinder with the "MAX" mark facing toward the front.
- (c) Install and torque the bolt.

Torque: 250 kg-cm (18 ft-lb, 25 N-m)

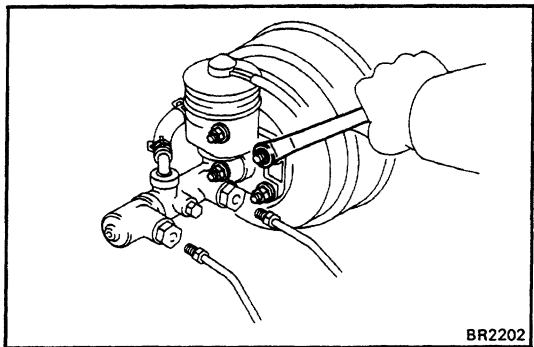


INSTALLATION OF MASTER CYLINDER

1. CLEAN OUT GROOVE ON LOWER INSTALLATION SURFACE OF MASTER CYLINDER
2. CONFIRM THAT "UP" MARK ON MASTER CYLINDER BOOT IS IN CORRECT POSITION



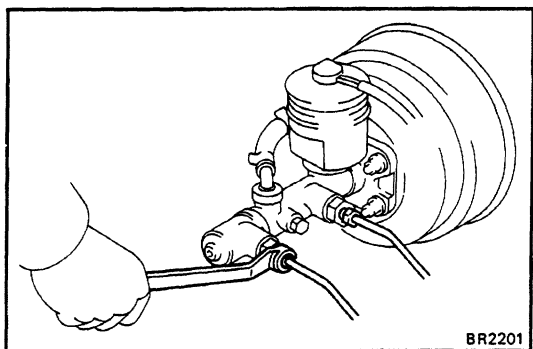
3. ADJUST LENGTH BRAKE BOOSTER PUSH ROD BEFORE INSTALLING MASTER CYLINDER
(See page [BR-17](#))



4. INSTALL MASTER CYLINDER

Install the master cylinder and clamp on the brake booster with four nuts over a new gasket.

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



5. CONNECT TWO BRAKE TUBES

- (a) Finger tighten the union nuts.
- (b) Using SST, torque the union nuts.

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

6. CONNECT LEVEL WARNING SWITCH CONNECTOR
7. FILL BRAKE RESERVOIR WITH BRAKE FLUID AND BLEED BRAKE SYSTEM
(See page [BR-6](#))
8. CHECK FOR LEAKS
9. CHECK AND ADJUST BRAKE PEDAL