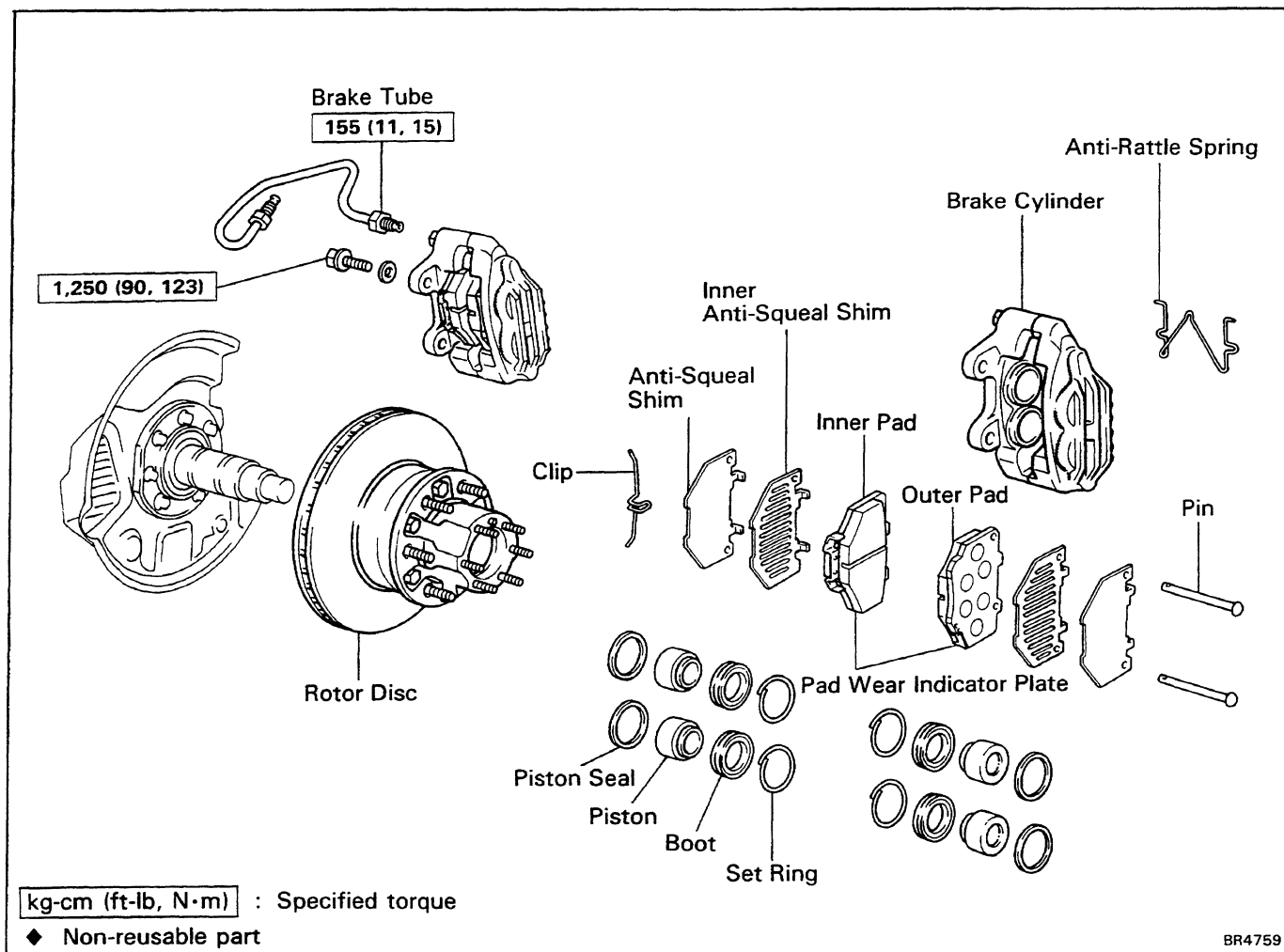
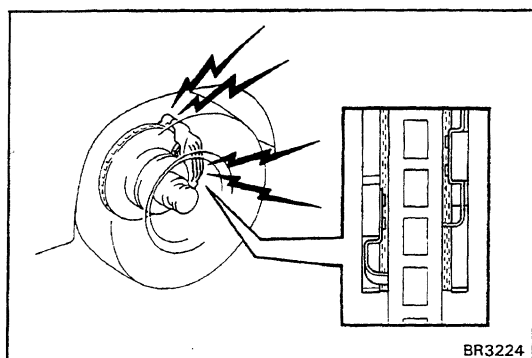


FRONT BRAKE COMPONENTS



BR4759



REPLACEMENT OF BRAKE PADS

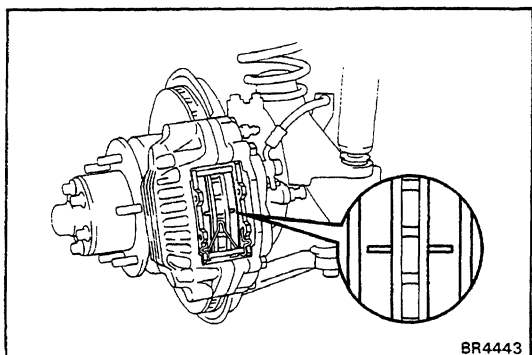
HINT: If a squealing noise occurs from the brakes while driving, check the pad wear indicator plate. If the pad wear indicator plate contacts the rotor disc, the brake pads should be replaced.

1. REMOVE FRONT WHEEL

2. INSPECT PAD LINING THICKNESS

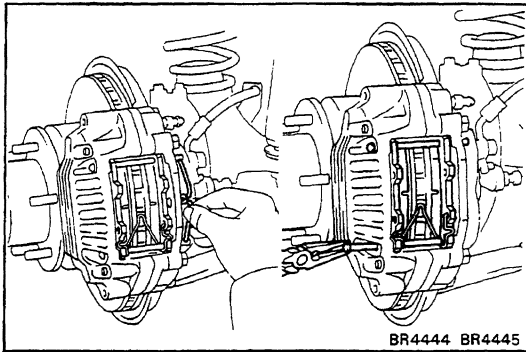
Check the pad thickness and replace pads if not within specification.

Minimum thickness: 4.0 mm (0.157 in.)



3. REMOVE FOLLOWING PARTS

- (a) Clip
- (b) Two pins



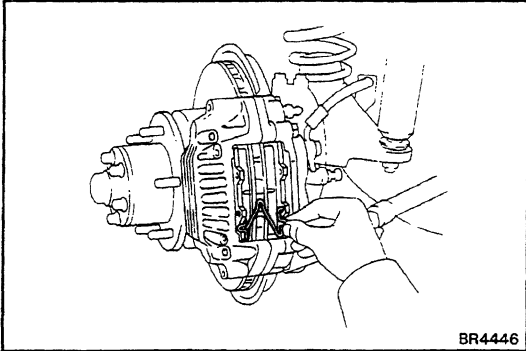
- (c) Anti-rattle spring
- (d) Two pads
- (e) Four anti-squeal shims

4. CHECK ROTOR DISC THICKNESS

(See step 2 on page [BR-23](#))

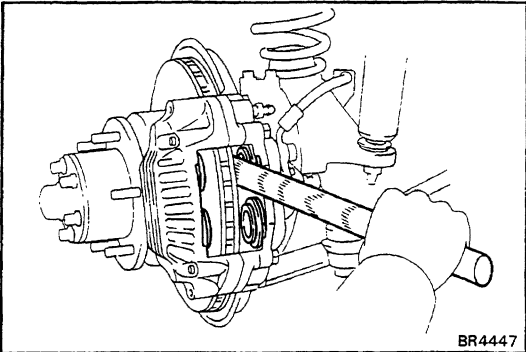
5. CHECK ROTOR DISC RUNOUT

(See step 3 on page [BR-23](#))

**6. INSTALL NEW PADS**

- (a) Draw out a small amount of brake fluid from the reservoir.
- (b) Press in the pistons with a hammer handle or an equivalent.

HINT: Always change the pads on one wheel at a time as there is possibility of the opposite piston flying out.

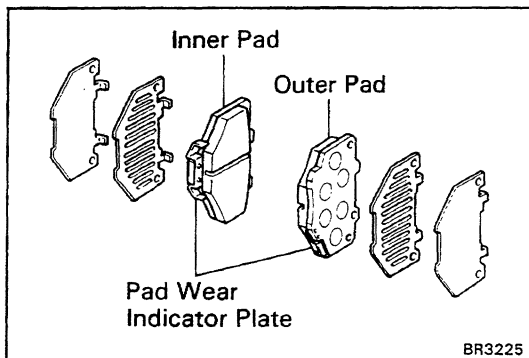
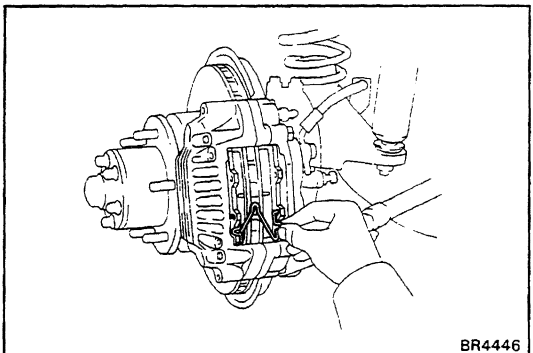


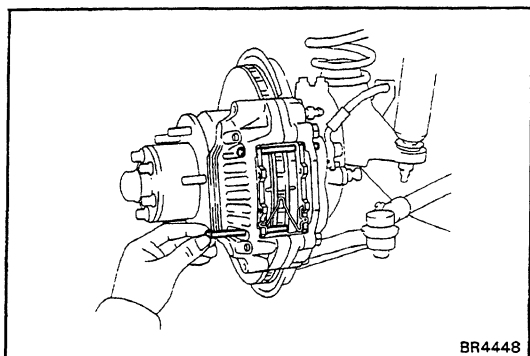
- (c) Install the four anti-squeal shims to new pads as shown.

HINT: Apply disc brake grease to both sides of the inner anti-squeal shims.

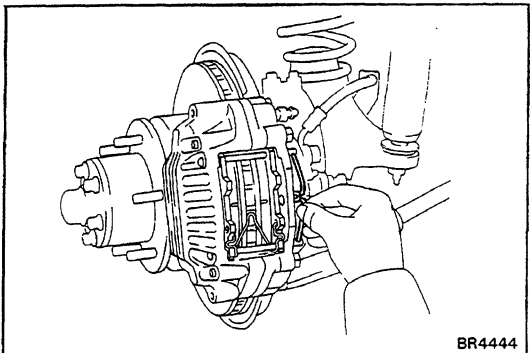
- (d) Install the two pads as shown in the illustration.

NOTICE: Do not allow oil or grease to get on the rubbing face.

**7. INSTALL ANTI-RATTLE SPRING**

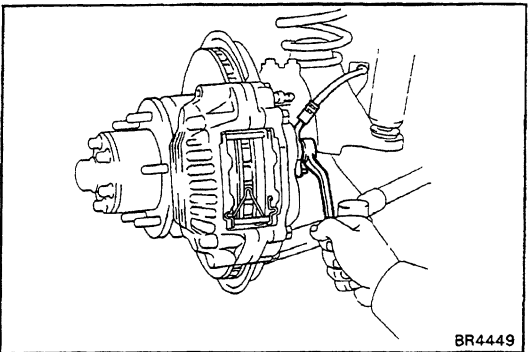


8. INSTALL TWO PINS



9. INSTALL CLIP

10. INSTALL FRONT WHEEL



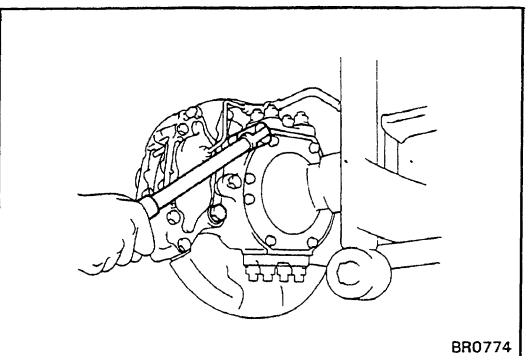
REMOVAL OF CYLINDER

(See page [BR-19](#))

1. REMOVE FRONT WHEEL

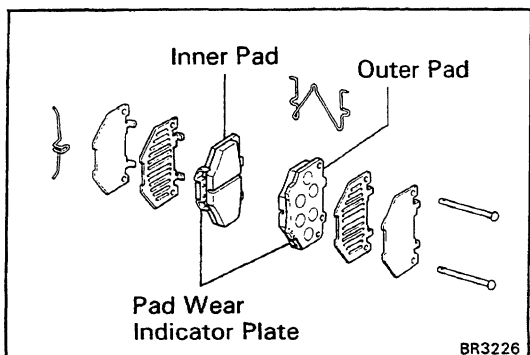
2. DISCONNECT BRAKE LINE

Disconnect the brake hose. Use a container to catch the brake fluid.



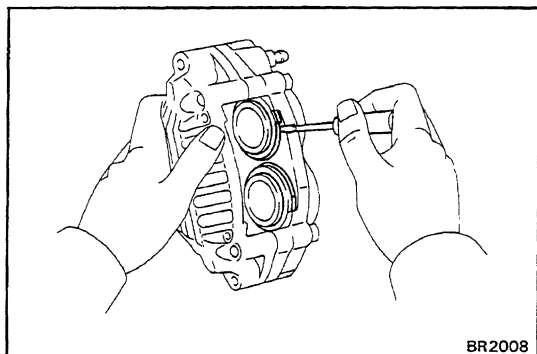
3. REMOVE CYLINDER

Remove the two mounting bolts and remove the cylinder.



4. REMOVE FOLLOWING PARTS

- (a) Clip
- (b) Two pins
- (c) Anti-rattle spring
- (d) Two pads
- (e) Four anti-squeal shims

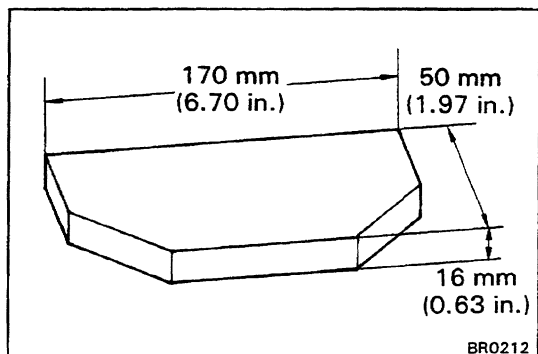


DISASSEMBLY OF CYLINDER

(See page [BR-19](#))

1. REMOVE CYLINDER BOOT SET RINGS AND BOOTS

Using a screwdriver, remove the four cylinder boot set rings and four boots.



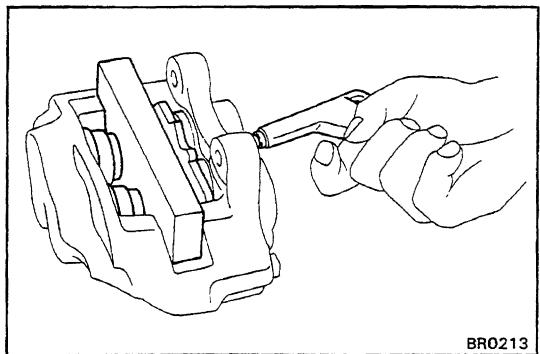
2. REMOVE PISTONS FROM CYLINDER

(a) Prepare the wooden plate as shown in the illustration to hold the pistons.

(b) Place the plate between the pistons and insert a pad at one side.

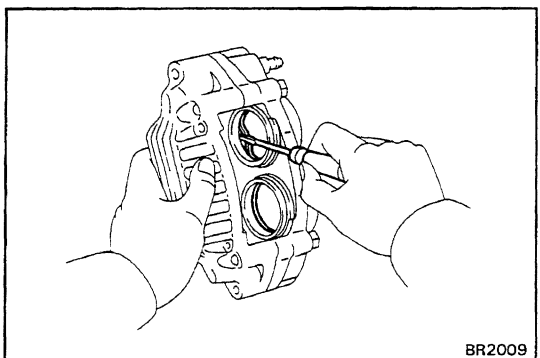
(c) Use compressed air to remove the pistons alternately from the cylinder.

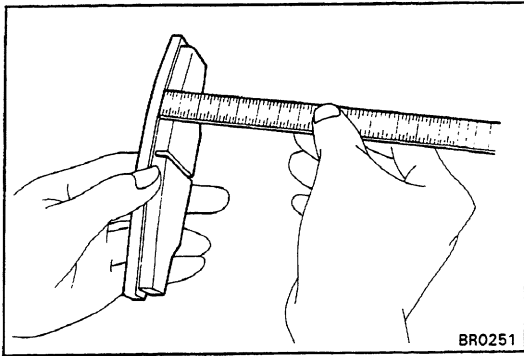
NOTICE: Do not place your fingers in front of the pistons when using compressed air.



3. REMOVE PISTON SEALS

Using a screwdriver, remove the four seals from the cylinder.





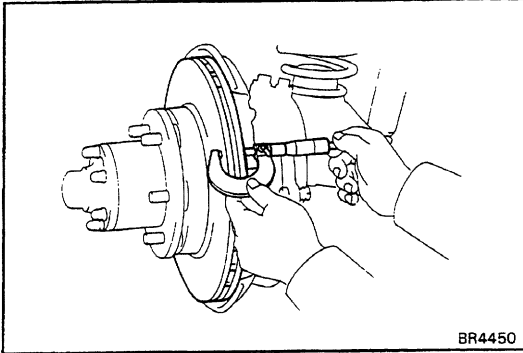
INSPECTION AND REPAIR OF FRONT BRAKE COMPONENTS

1. MEASURE PAD LINING THICKNESS

Minimum thickness: 4.0 mm (0.157 in.)

Standard thickness: 9.5 mm (0.374 in.)

Replace the pads if the thickness is less than the minimum (the 5.0 mm slit is no longer visible) or if it shows sign of uneven wear.

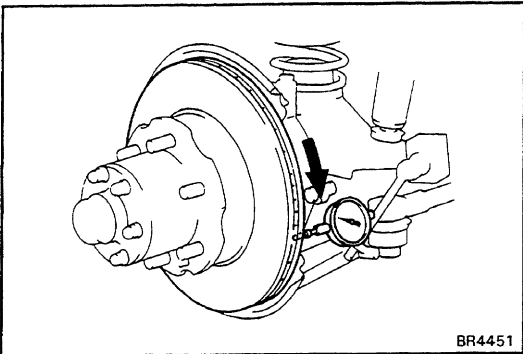


2. MEASURE ROTOR DISC THICKNESS

Minimum thickness: 23.0 mm (0.906 in.)

Standard thickness: 25.0 mm (0.984 in.)

If the disc is scored or worn, or if thickness is less than minimum, repair or replace the disc.



3. MEASURE ROTOR DISC RUNOUT

Measure the rotor disc runout at 10 mm (0.39 in.) from the outer edge of the rotor disc.

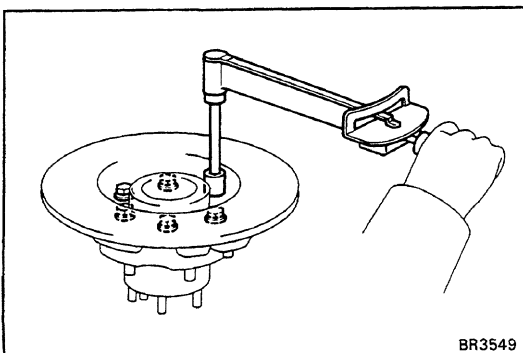
Maximum disc runout: 0.15 mm (0.0059 in.)

If the runout is greater than maximum, replace the rotor disc.

HINT: Before measuring the runout, confirm that the front bearing play is within specification.

4. IF NECESSARY, REPLACE ROTOR DISC

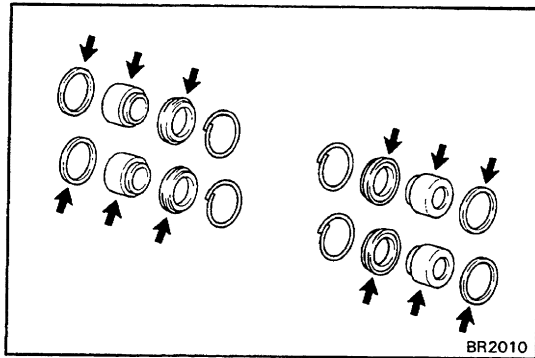
- (a) Remove the front axle hub.
- (b) Remove the disc from the axle hub.



- (c) Install a new rotor disc and torque the bolts.

Torque: 750 kg-cm (54 ft-lb, 74 N-m)

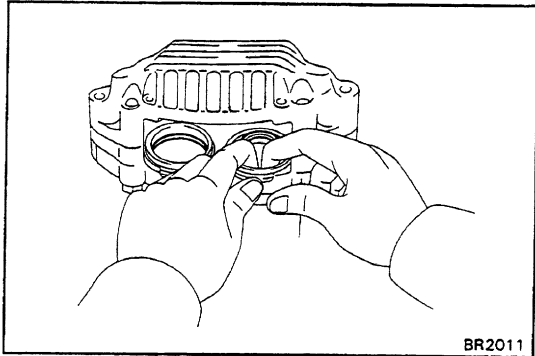
- (d) Install the axle hub and adjust the front bearing preload.



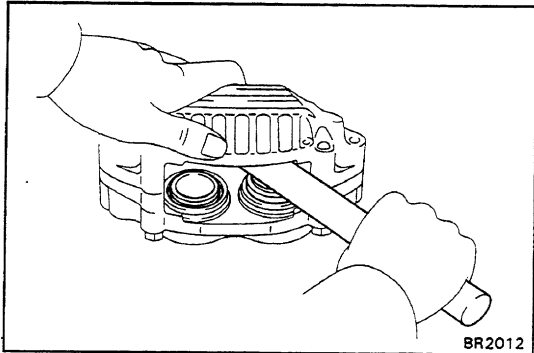
ASSEMBLY OF CYLINDER

(See page [BR-19](#))

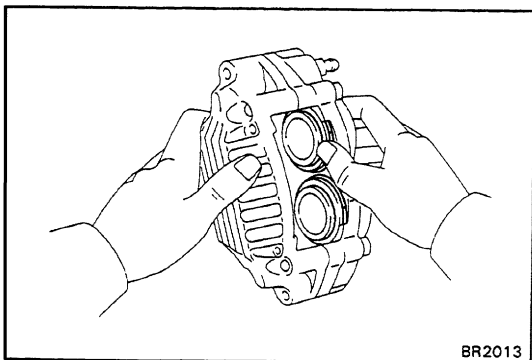
1. APPLY LITHIUM SOAP BASE GLYCOL GREASE TO PARTS INDICATED BY ARROWS



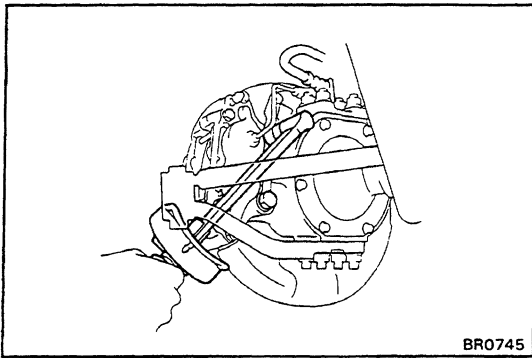
2. INSTALL PISTON SEALS INTO CYLINDER



3. INSTALL PISTONS INTO CYLINDER



4. INSTALL CYLINDER BOOTS AND SET RINGS INTO CYLINDER



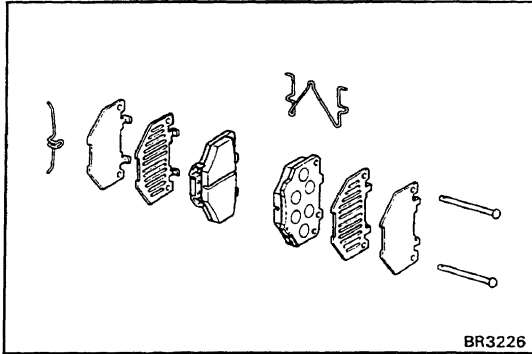
INSTALLATION OF CYLINDER

(See page [BR-19](#))

1. INSTALL CYLINDER

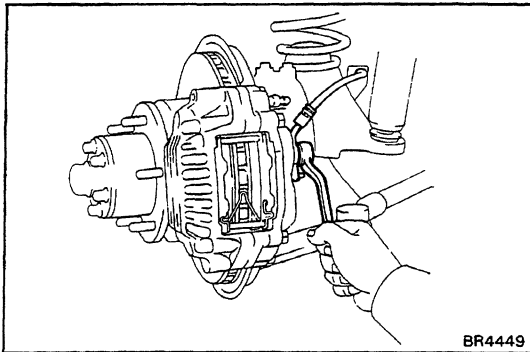
Install the brake cylinder, and torque the two mounting bolts.

Torque: 1,250 kg-cm (90 ft-lb, 123 N-m)



2. INSTALL PADS

(See steps 6 to 9 on pages [BR-20](#) and 21)



3. INSTALL BRAKE HOSE TO BRAKE CYLINDER

Torque: 310 kg-cm (22 ft-lb, 30 N-m)

4. FILL BRAKE RESERVOIR WITH BRAKE FLUID AND BLEED BRAKE SYSTEM

(See page [BR-7](#))

5. CHECK FOR FLUID LEAKAGE

6. INSTALL FRONT WHEEL