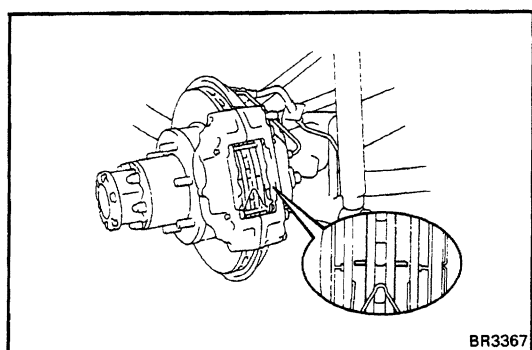
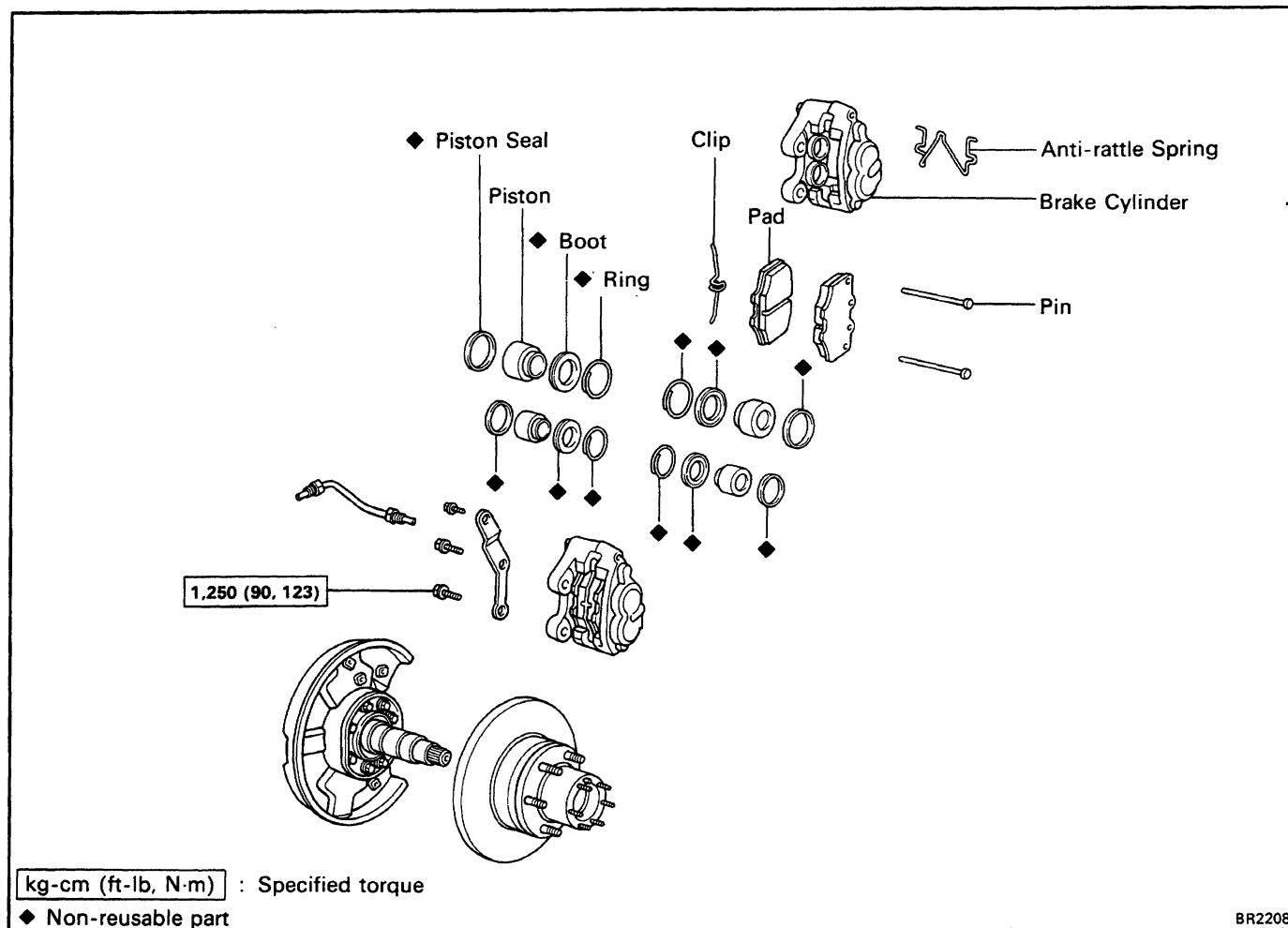


FRONT BRAKE COMPONENTS



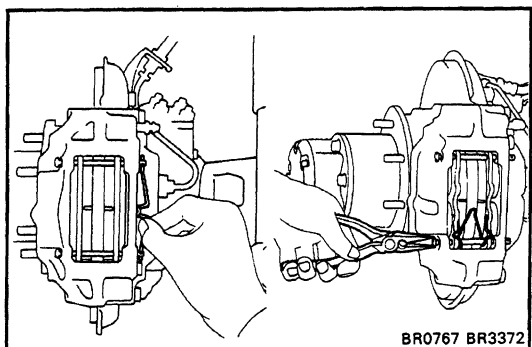
REPLACEMENT OF BRAKE PADS

1. REMOVE FRONT WHEEL

2. INSPECT PAD LINING THICKNESS

Check the pad thickness through the cylinder inspection hole and replace pads if not within specification.

Minimum thickness: 4.0 mm (0.157 in.)



3. REMOVE FOLLOWING PARTS:

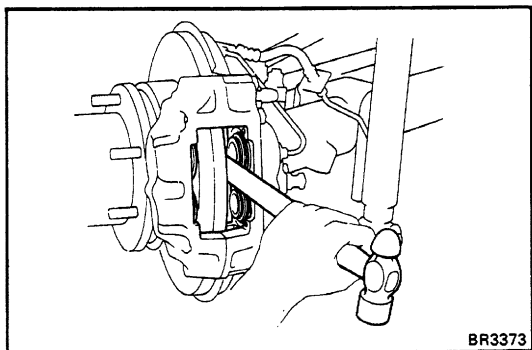
- (a) Anti-rattle clip
- (b) Two anti-rattle pins
- (c) Anti-rattle spring
- (d) Two pads

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**

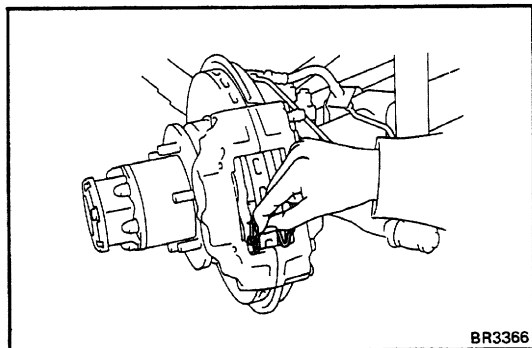
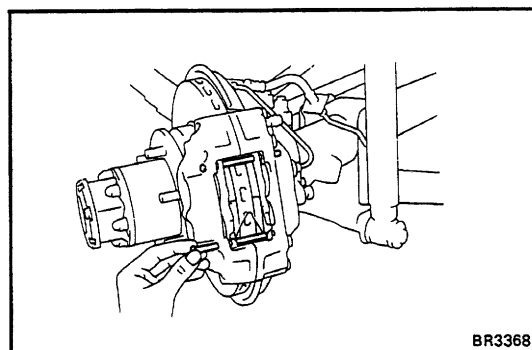
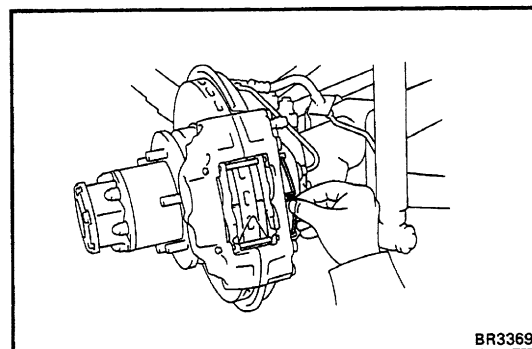
(a) Draw out a small amount of brake fluid from the reservoir.

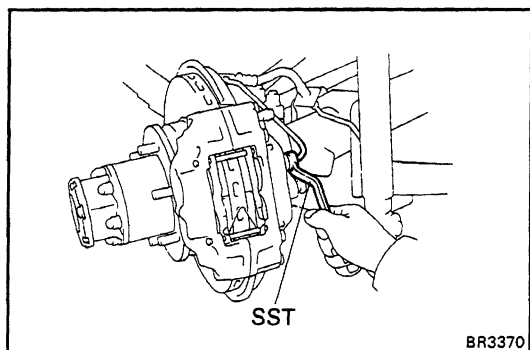
(b) Press in the piston with a hammer handle or such.

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

(c) Install the new pads into the cylinder.

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

**7. INSTALL ANTI-RATTLE SPRING****8. INSTALL TWO PINS****9. INSTALL ANTI-RATTLE CLIP**



REMOVAL OF CYLINDER

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

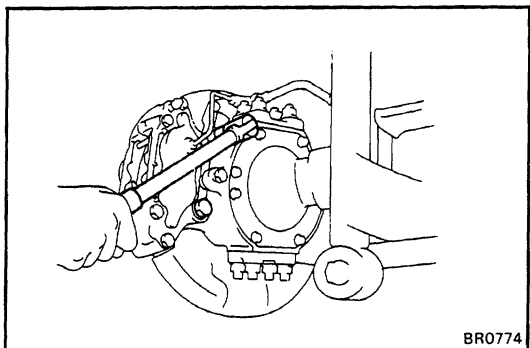
1. REMOVE FRONT WHEEL

2. DISCONNECT BRAKE LINE

Using SST, disconnect the brake line.

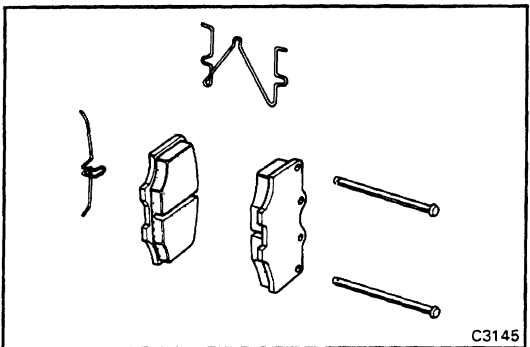
Use a container to catch the brake fluid.

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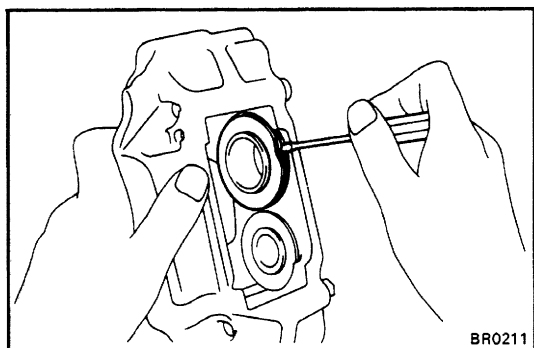
3. REMOVE CYLINDER

Remove the two mounting bolts, and cylinder.



4. REMOVE FOLLOWING PARTS:

- (a) Anti-rattle clip
- (b) Two anti-rattle pins
- (c) Anti-rattle spring
- (d) Two pads

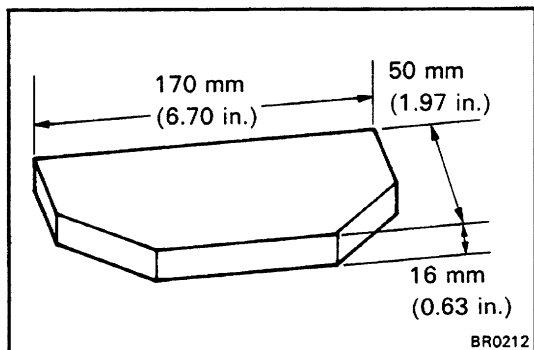


DISASSEMBLY OF CYLINDER

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

1. REMOVE CYLINDER BOOT RING AND BOOT

Using a screwdriver, remove the cylinder boot set ring and boot.



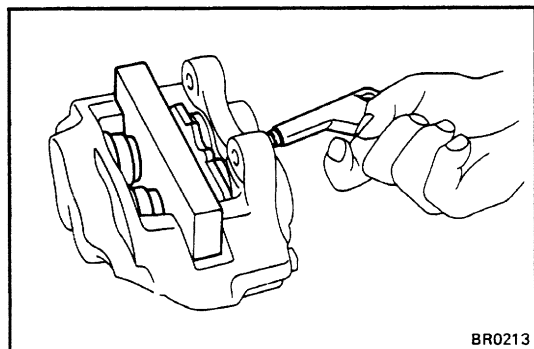
2. REMOVE PISTON FROM CYLINDER

(a) Prepare the wooden plate as shown in the figure to hold the piston.

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

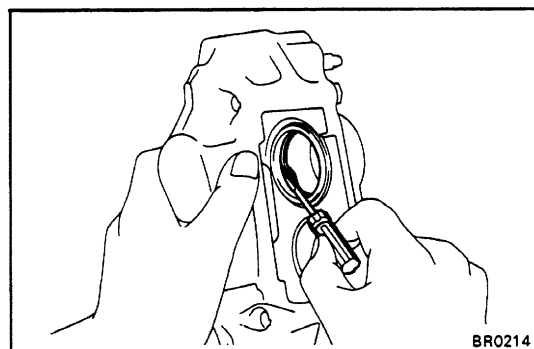
(c) Use compressed air to removed the pistons alternately from the cylinder.

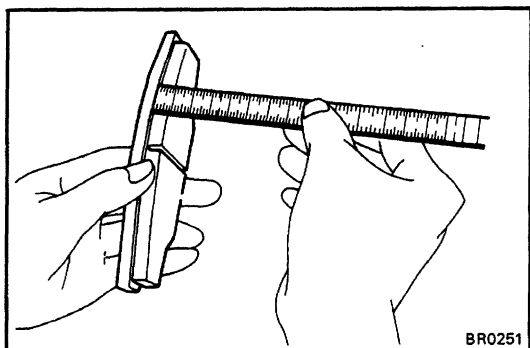
CAUTION: Do not place your fingers in front of the piston when using compressed air.



3. REMOVE PISTON SEAL

Using a screwdriver, remove the seal from the cylinder.





BR0251

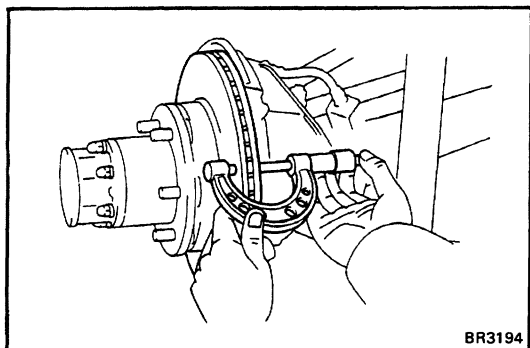
INSPECTION AND REPAIR OF FRONT BRAKE COMPONENTS

1. MEASURE PAD LINING THICKNESS

Standard thickness: 10.0 mm (0.394 in.)

Minimum thickness: 4.0 mm (0.157 in.)

Replace the pad if the thickness is less than minimum (the 4.0 mm slit is no longer visible) or if it shows signs of uneven wear.



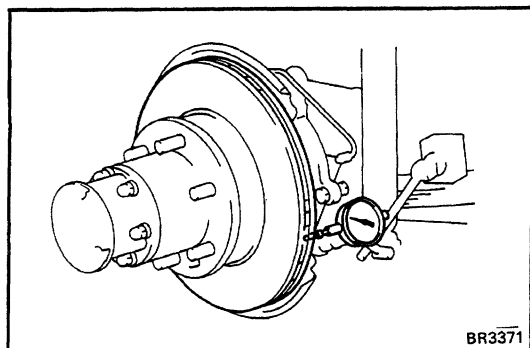
BR3194

2. MEASURE ROTOR DISC THICKNESS

Standard thickness: 20.0 mm (0.787 in.)

Minimum thickness: 19.0 mm (0.748 in.)

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



BR3371

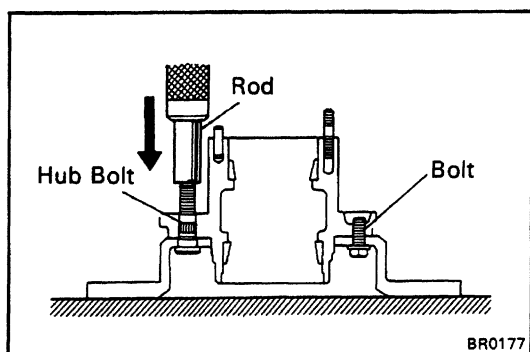
3. MEASURE ROTOR DISC RUNOUT

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 disc.

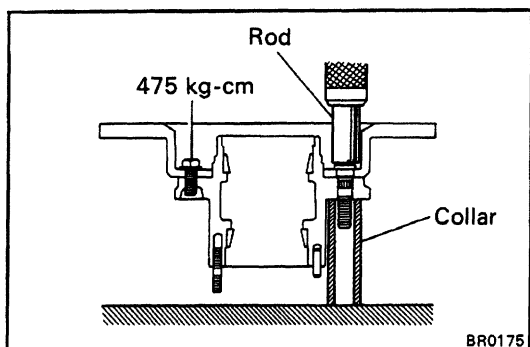
HINT: Before measuring the runout, confirm that the front bearing play is within specification.



BR0177

4. IF NECESSARY, REPLACE DISC

- Remove the axle hub. (See steps 2, 3 on page [SA-14](#))
- Using rod, press the hub bolts out of the axle housing.
- Remove the two bolts and separate the disc and hub.



BR0175

- Install a new disc to the axle hub and torque the two bolts.

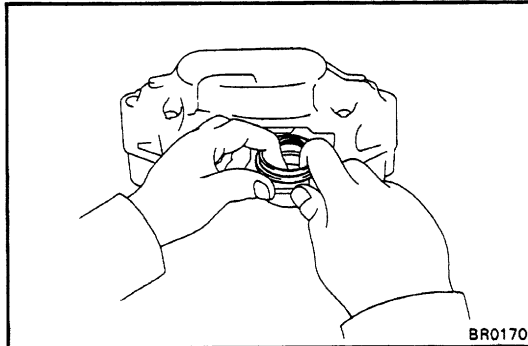
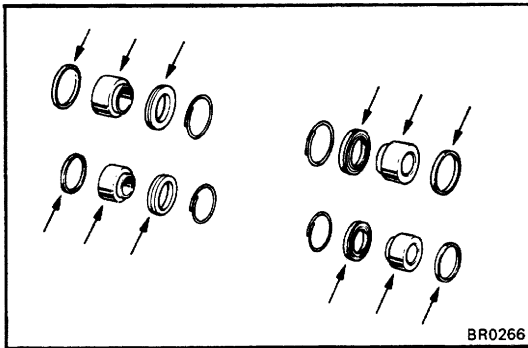
Torque: 475 kg-cm (34 ft-lb, 47 N-m)

- Using a collar and rod, press the hub bolts into the hub.
- Install the axle hub and adjust the front bearing preload. (See steps 4 to 7 on pages [SA-15](#), 16)

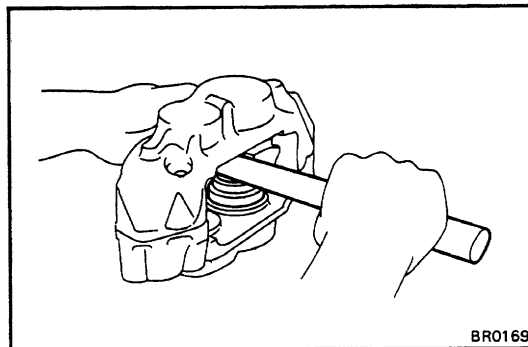
ASSEMBLY OF CYLINDER

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

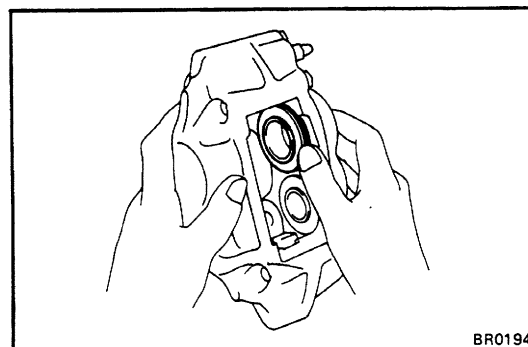
1. APPLY LITHIUM SOAP BASE GLYCOL GREASE TO PARTS INDICATED BY ARROWS



2. INSTALL PISTON SEAL IN CYLINDER



3. INSTALL PISTON IN CYLINDER



4. INSTALL CYLINDER BOOT AND SET RING IN CYLINDER

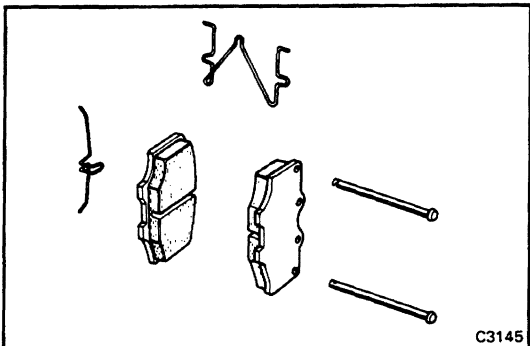
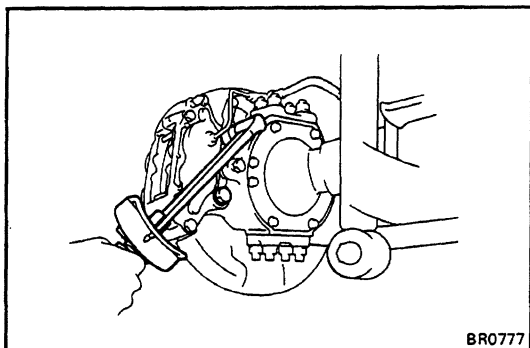
INSTALLATION OF CYLINDER

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

1. INSTALL CYLINDER

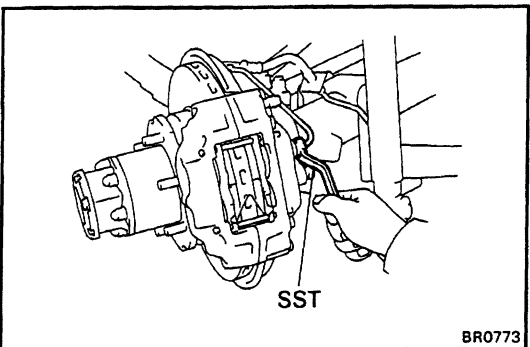
- (a) Install the cylinder and mounting bolts.
- (b) Torque the bolts.

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



2. INSTALL FOLLOWING PARTS:

- (a) Two pads
- (b) Anti-rattle spring
- (c) Two anti-rattle pins
- (d) Anti-rattle clip



3. CONNECT BRAKE LINE

Using SST, connect the brake line.

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

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

(See page [BR-6](#))

5. CHECK FOR FLUID LEAKAGE

6. INSTALL FRONT WHEEL