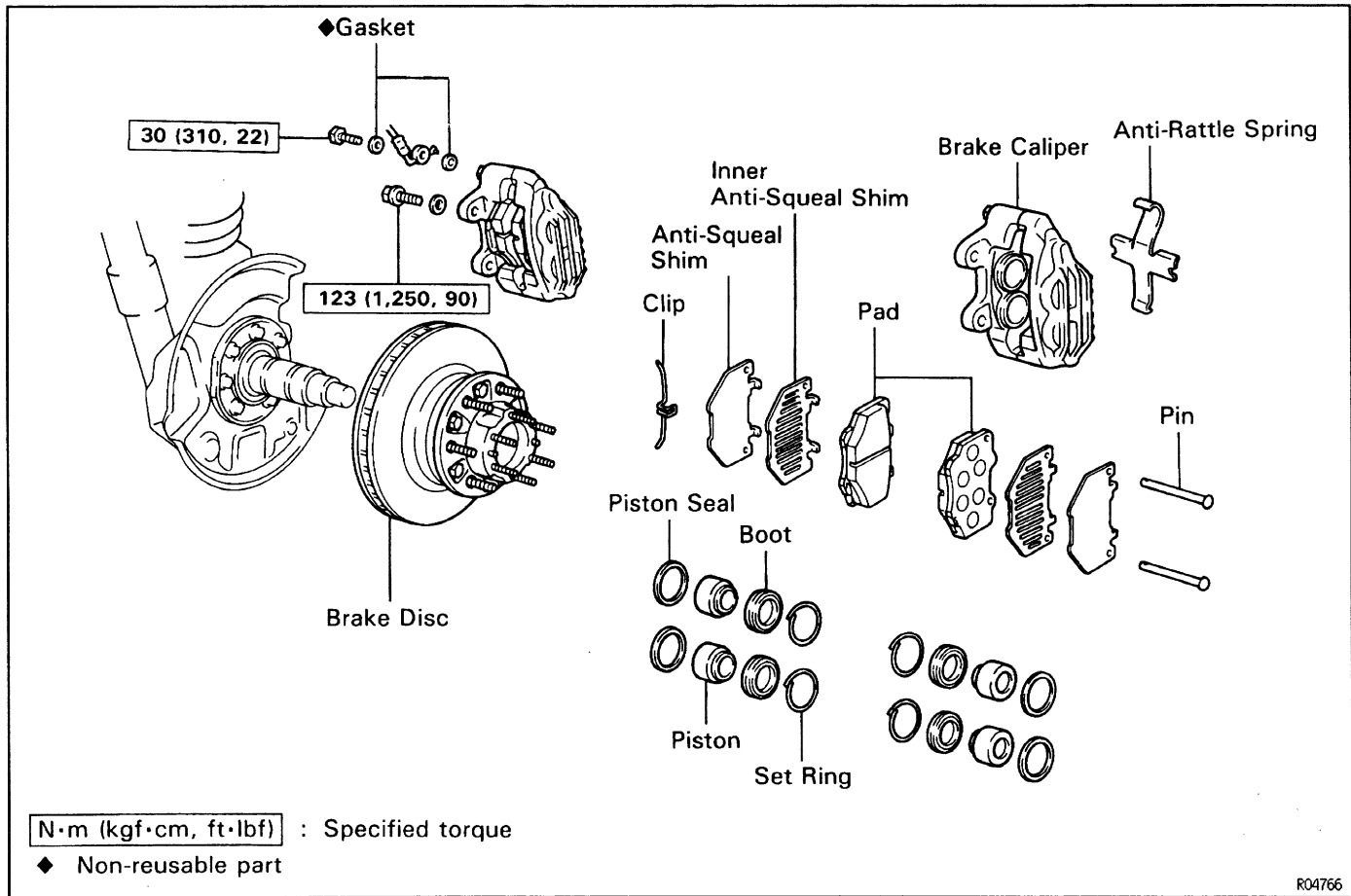


FRONT BRAKE COMPONENTS

BR01P-03



BRAKE PADS REPLACEMENT

BR0FS-01

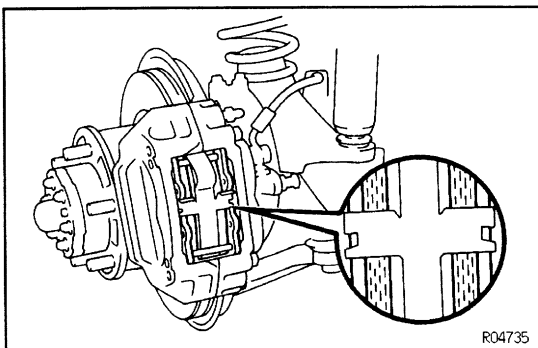
HINT: If squealing noise is made by the front brakes while driving, check the pad wear indicator. If there is evidence of the indicator contacting the disc, the brake pads should be replaced.

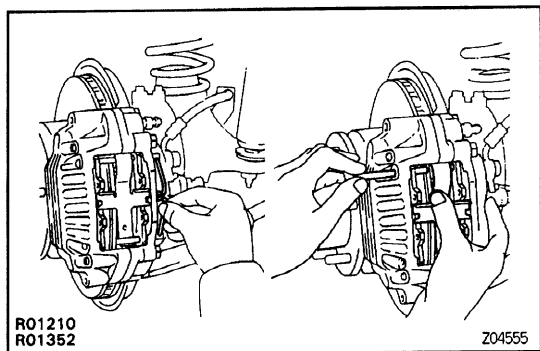
1. REMOVE FRONT WHEEL

2. INSPECT PAD LINING THICKNESS

Check the pad thickness through the caliper inspection hole and replace the pads if it is not within the specification.

Minimum thickness:
4.0 mm (0.157 in.)



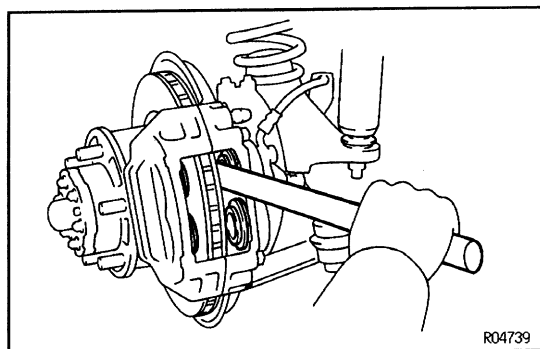


3. REMOVE FOLLOWING PARTS:

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

4. CHECK DISC THICKNESS AND DISC RUNOUT

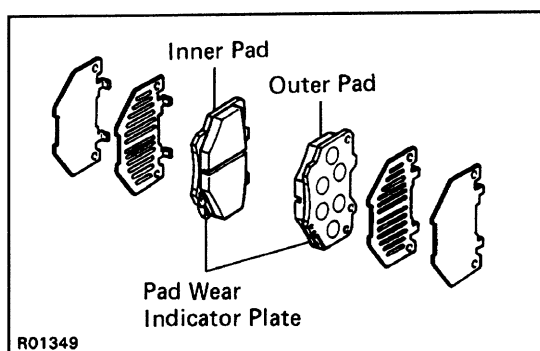
(See page [BR-24](#))



5. INSTALL NEW PADS

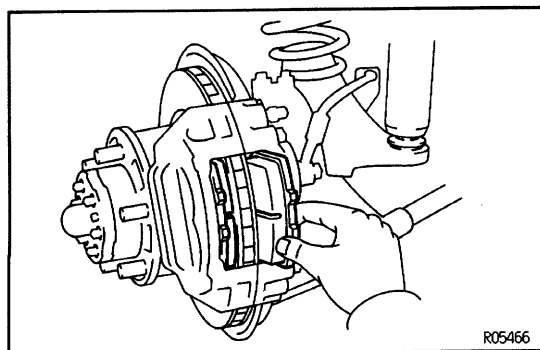
- (a) Draw out a small amount of brake fluid from the reservoir.
- (b) Press in the pistons with a hammer handle or an equivalent.

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



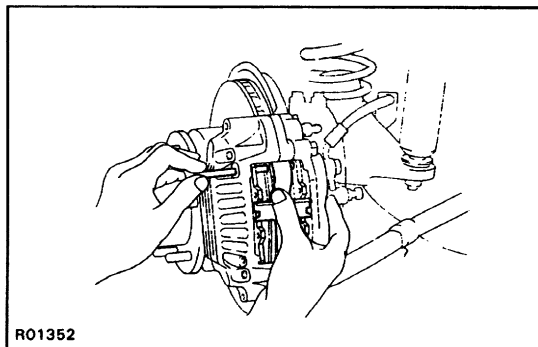
- (c) Install the four anti-squeal shims to new pads as shown.

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

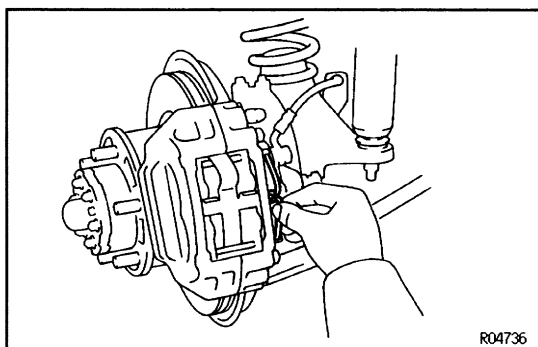


- (d) Install the two pads as shown in the illustration.

NOTICE: There should be no oil or grease adhering to the friction surfaces of the pads or the disc.



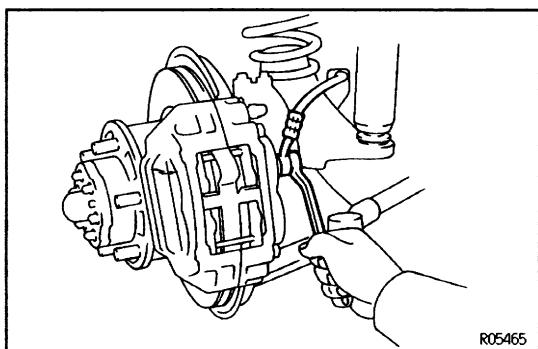
6. INSTALL ANTI-RATTLE SPRING AND TWO PINS



7. INSTALL CLIP

8. INSTALL FRONT WHEEL

9. CHECK THAT FLUID LEVEL IS AT MAX LINE

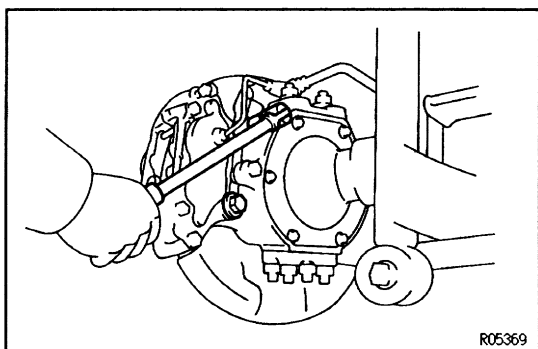


CALIPER REMOVAL

BR01R-03

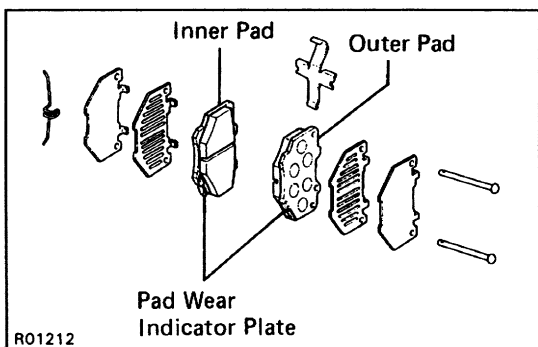
1. DISCONNECT FLEXIBLE HOSE

- Remove the union bolt and two gaskets from the brake caliper, then disconnect the flexible hose from the brake caliper.
- Use a container to catch the brake fluid as it drains out.



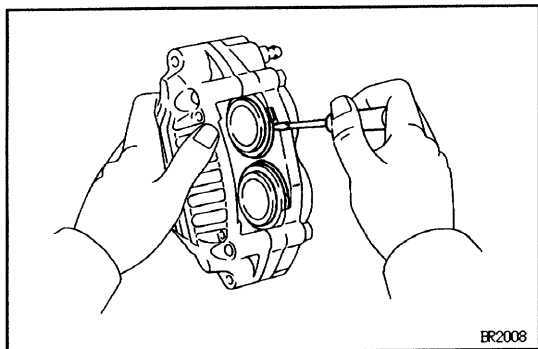
2. REMOVE CALIPER

Remove the two mounting bolts and remove the caliper.



3. REMOVE FOLLOWING PARTS:

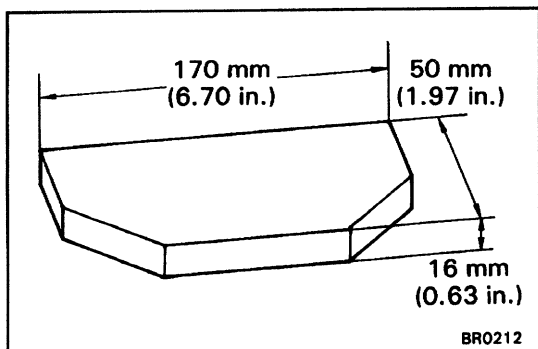
- Clip
- Two pins
- Anti-rattle spring
- Two pads
- Four anti-squeal shims



CALIPER DISASSEMBLY

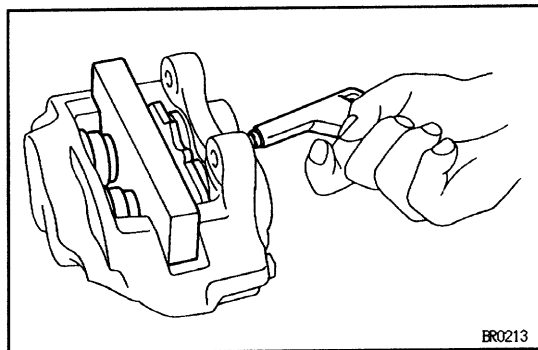
1. REMOVE CYLINDER BOOT SET RINGS AND CYLINDER BOOTS

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



2. REMOVE PISTON

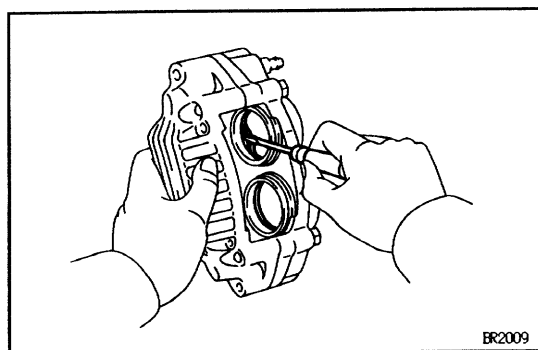
(a) Prepare the wooden plate as shown in the illustration to hold the pistons.



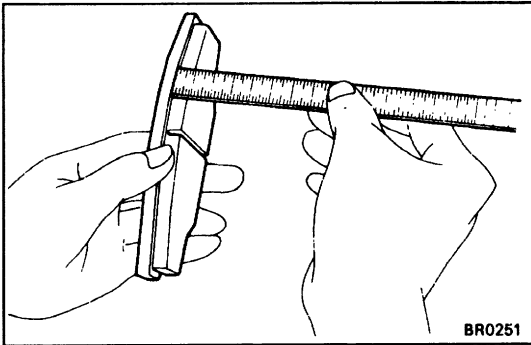
(b) Place the plate between the pistons and insert a pad at one side.

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

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



3. REMOVE PISTON SEALS



FRONT BRAKE COMPONENTS INSPECTION AND REPAIR

1. MEASURE PAD LINING THICKNESS

Using a ruler, measure the pad lining thickness.

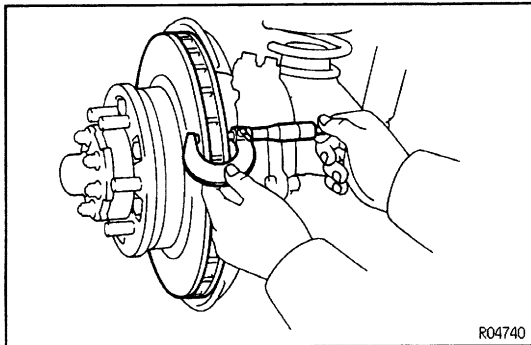
Standard thickness:

9.5 mm (0.374 in.)

Minimum thickness:

4.0 mm (0.157 in.)

Replace the pad if the pad's thickness is at the minimum thickness or less, or if the pad has severely uneven wear.



2. MEASURE DISC THICKNESS

Using a micrometer, measure the disc thickness.

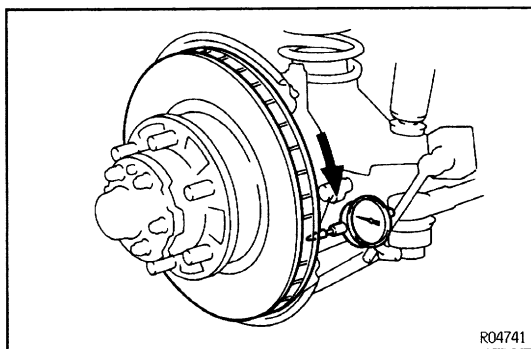
Standard thickness:

32.0 mm (1.260 in.)

Minimum thickness:

30.0 mm (1.181 in.)

Replace the disc if the thickness of the disc is at the minimum thickness or less. Replace the disc or grind it on a lathe if it is scored or is worn unevenly.



3. MEASURE DISC RUNOUT

Using a dial indicator, measure the disc runout at a position 10 mm (0.39 in.) from the outside edge.

Maximum disc runout:

0.15 mm (0.0059 in.)

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

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

4. IF NECESSARY, REPLACE DISC RUNOUT

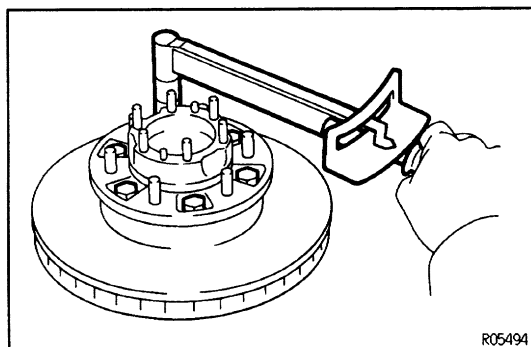
(a) Remove the front axle hub.

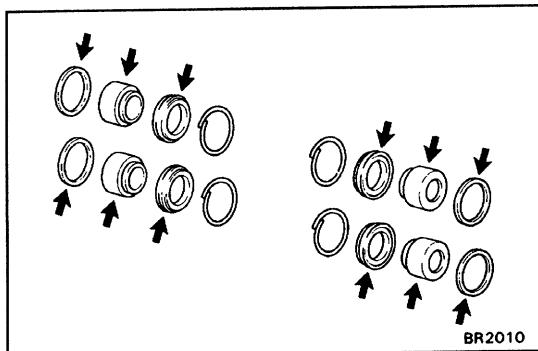
(b) Remove the disc from the axle hub.

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

Torque: 74 N·m (750 kgf·cm, 54 ft·lbf)

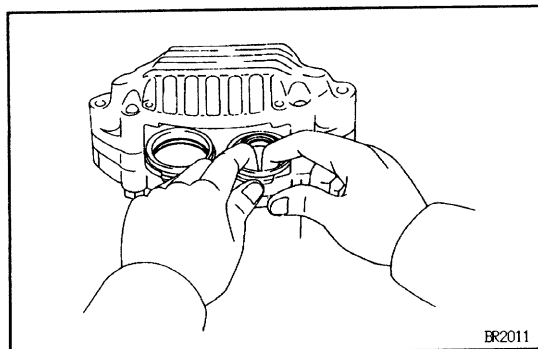
(d) Install the axle hub and adjust the front bearing pre-load.



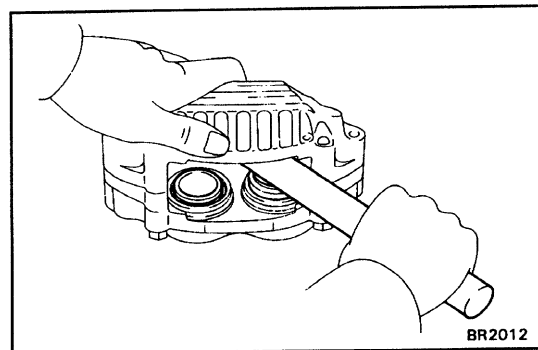


CALIPER ASSEMBLY

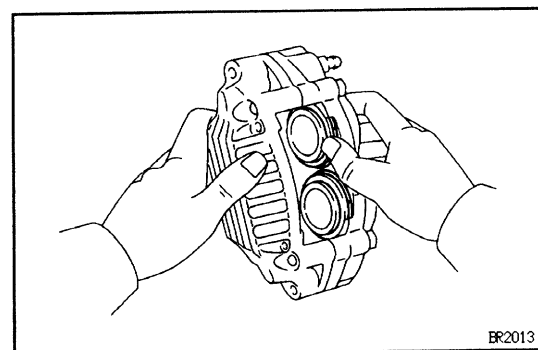
1. APPLY LITHIUM SOAP BASE GLYCOL GREASE TO PARTS INDICATED WITH ARROWS



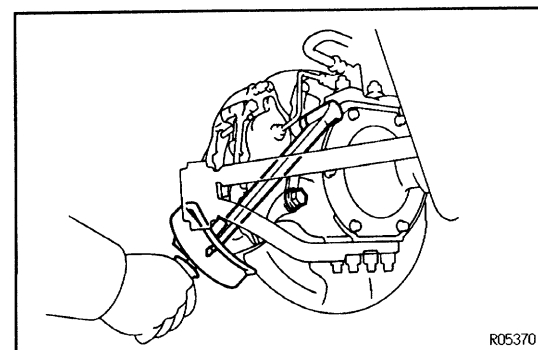
2. INSTALL PISTON SEALS INTO CYLINDER



3. INSTALL PISTONS INTO CYLINDER



4. INSTALL CYLINDER BOOTS AND CYLINDER BOOT SET RINGS

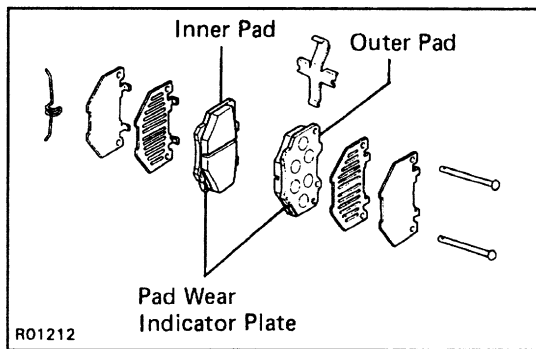


CALIPER INSTALLATION

1. INSTALL CALIPER

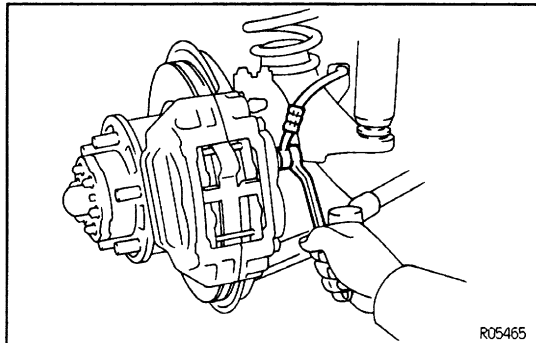
Install the brake caliper, and torque the two mounting bolts.

Torque: 123 N-m (1,250 kgf-cm, 90 ft-lbf)



2. INSTALL PADS

(See page [BR-23](#))



3. CONNECT FLEXIBLE HOSE

Install the flexible hose on the brake caliper with two new gaskets.

Torque: 30 N-m (310 kgf-cm, 22 ft-lbf)

HINT: Install the flexible hose lock securely in the lock hole in the brake caliper.

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

(See page [BR-8](#))

5. CHECK FOR LEAKS

6. INSTALL FRONT WHEEL