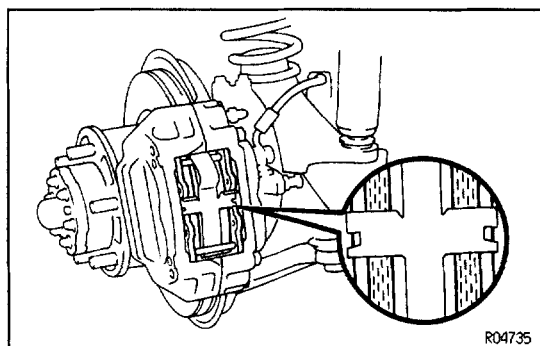
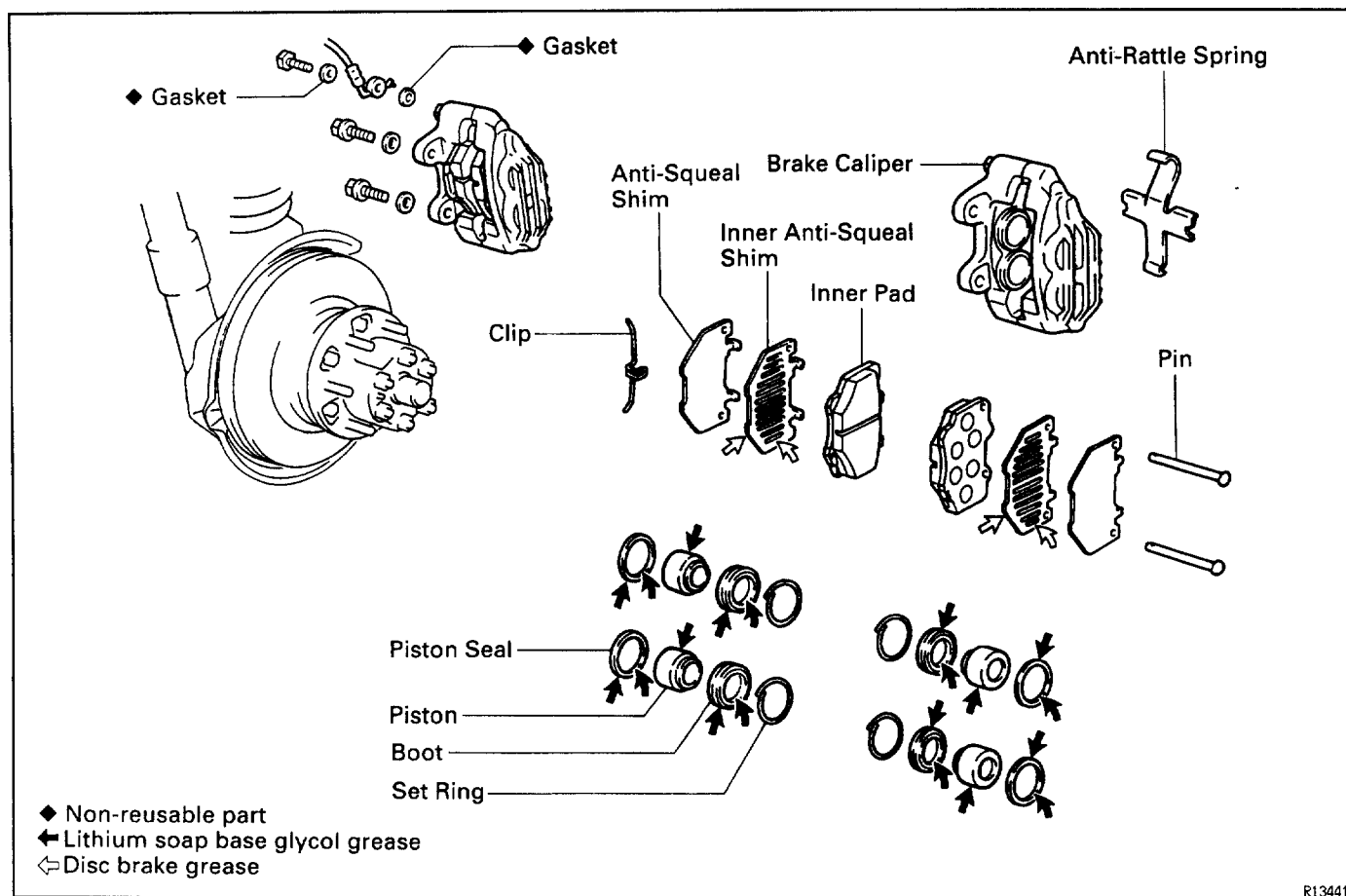


FRONT BRAKE COMPONENTS



BRAKE PADS REPLACEMENT

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.

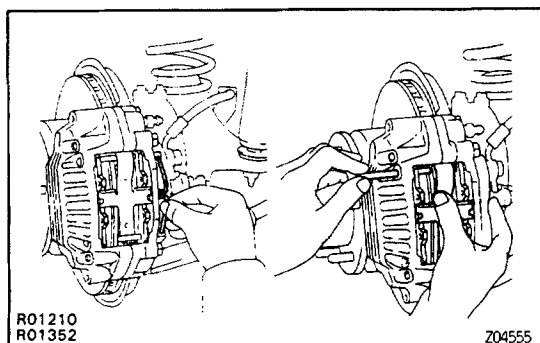
Minimum thickness:

1.0 mm (0.039 in.)

3. REMOVE THESE PARTS:

- (a) Clip
- (b) 2 pins
- (c) Anti-rattle spring
- (d) 2 pads
- (e) 4 anti-squeal shims

NOTICE: The anti-rattle spring and clip can be used again provided that they have sufficient rebound, no deformation, clacks or wear, and had all rust, dirt and foreign particles cleaned off.



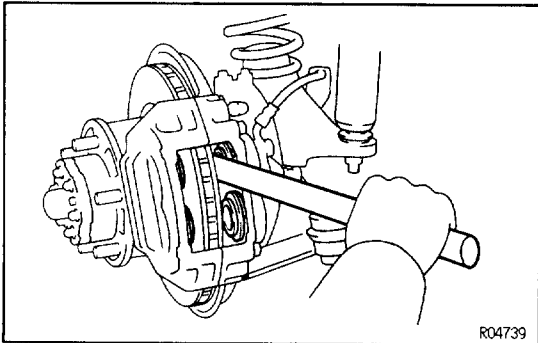
4. CHECK DISC THICKNESS AND DISC RUNOUT

(See page [BR-18](#))

5. INSTALL NEW PADS

NOTICE: When replacing worn pads, the anti-squeal shims must be replaced together with the pads.

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



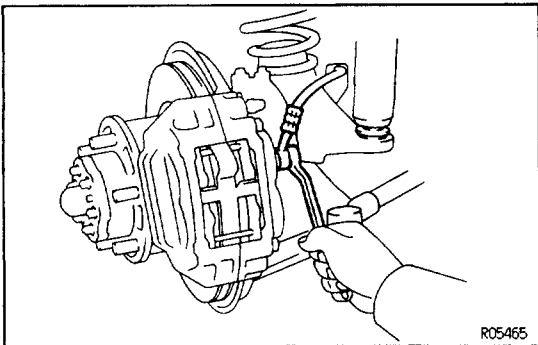
- (b) Press in the pistons with a hammer handle or an equivalent.
HINT: Always change the pads on one wheel at a time as there is a possibility of the opposite piston flying out.

- (c) Install the 2 anti-squeal shims to each pad.

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

- (d) Install the 2 pads.

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 2 PINS**7. INSTALL CLIP****8. INSTALL FRONT WHEEL****9. CHECK THAT FLUID LEVEL IS AT MAX LINE****CALIPER REMOVAL**

Installation is in the reverse order of removal.

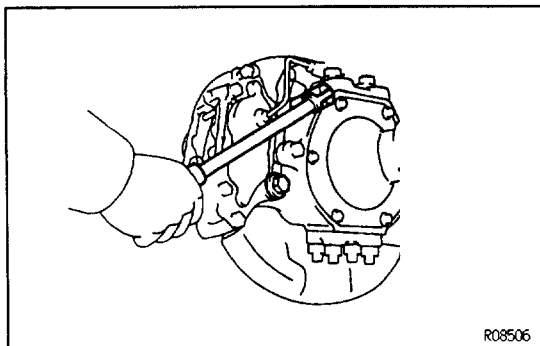
AFTER INSTALLATION, FILL BRAKE RESERVOIR WITH BRAKE FLUID, BLEED BRAKE SYSTEM (See page [BR-6](#)) AND CHECK FOR LEAKS

1. DISCONNECT FLEXIBLE HOSE

- (a) Remove the union bolt and 2 gaskets from the caliper, then disconnect the flexible hose from the caliper.

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

- (b) Use a container to catch the brake fluid as it drains out.



2. REMOVE CALIPER

Remove the 2 mounting bolts and remove the caliper.

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

3. REMOVE THESE PARTS:

- (a) Clip
- (b) 2 pins
- (c) Anti-rattle spring
- (d) 2 pads
- (e) 4 anti-squeal shims

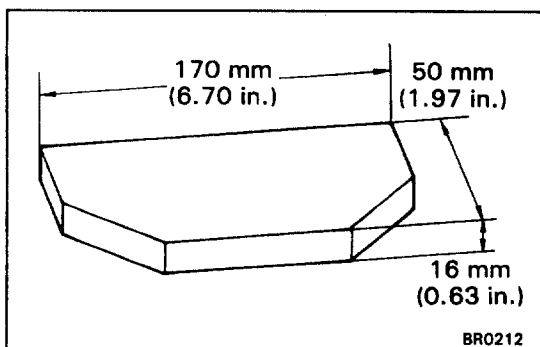
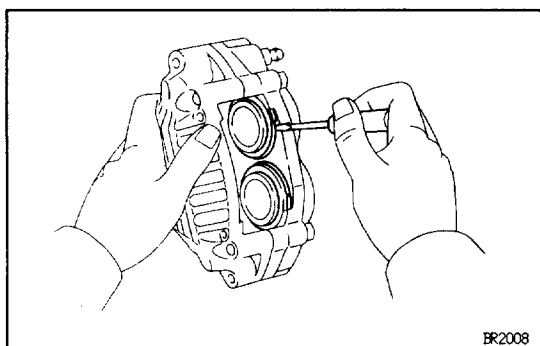
CALIPER DISASSEMBLY

Assembly is in the reverse order of disassembly.

ASSEMBLY NOTICE: Apply lithium soap base glycol grease to the parts indicated by the arrows (See page BR -15).

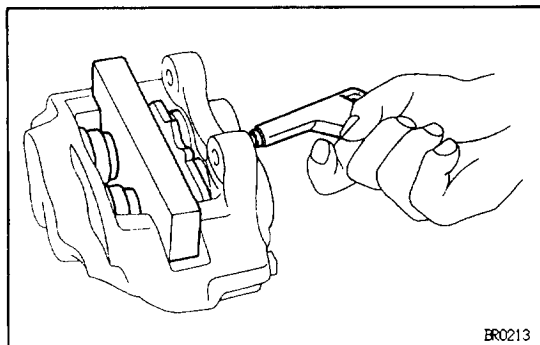
1. REMOVE CYLINDER BOOT SET RINGS AND CYLINDER BOOTS

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



2. REMOVE PISTON

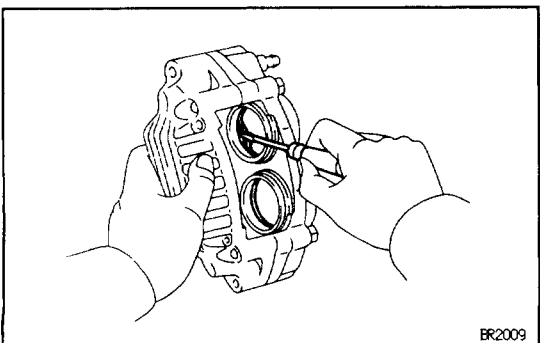
- (a) Prepare the wooden plate to hold the pistons.



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

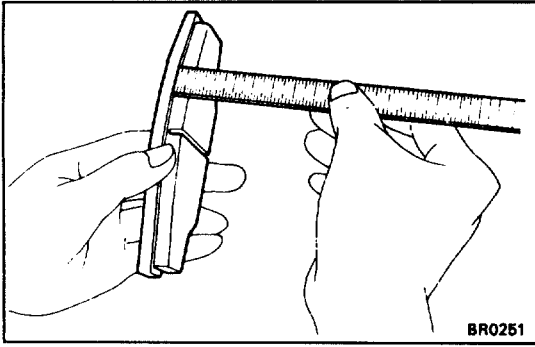
- (c) Use compressed air to remove the pistons alternately from the cylinder.

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



3. REMOVE PISTON SEALS

Using a screwdriver, remove the 4 piston seals from the cylinder.



FRONT BRAKE COMPONENTS INSPECTION AND REPAIR

1. MEASURE PAD LINING THICKNESS

Using a ruler, measure the pad lining thickness.

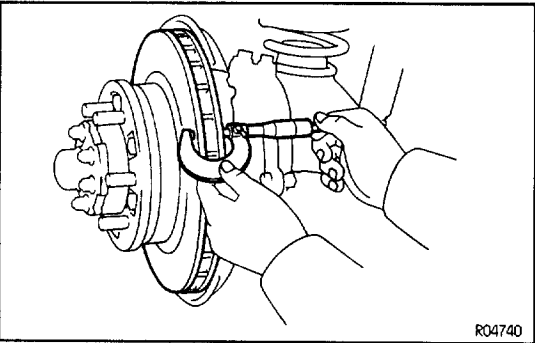
Standard thickness:

9.5 mm (0.374 in.)

Minimum thickness:

1.0 mm (0.039 in.)

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



2. MEASURE DISC THICKNESS

Using a micrometer, measure the disc thickness.

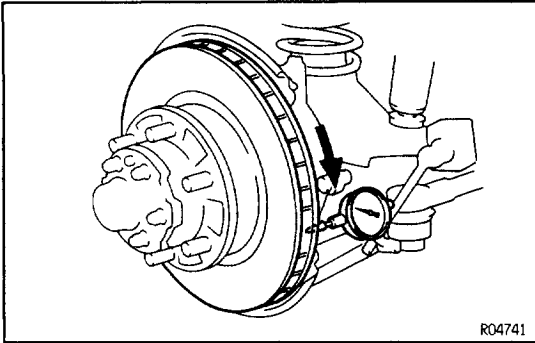
Standard thickness:

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

(a) Remove the front axle hub. (See page [SA-8](#))

(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 preload.

