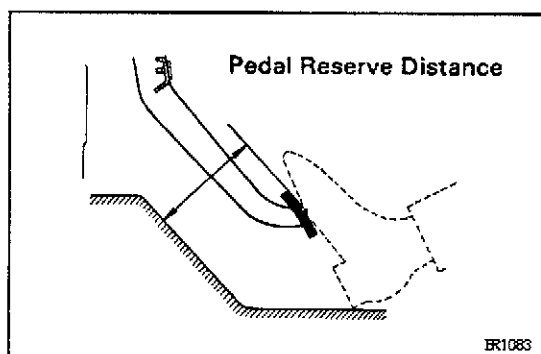




4. CHECK PEDAL RESERVE DISTANCE

Release the parking brake.

With the engine running, depress the pedal and measure the pedal reserve distance.

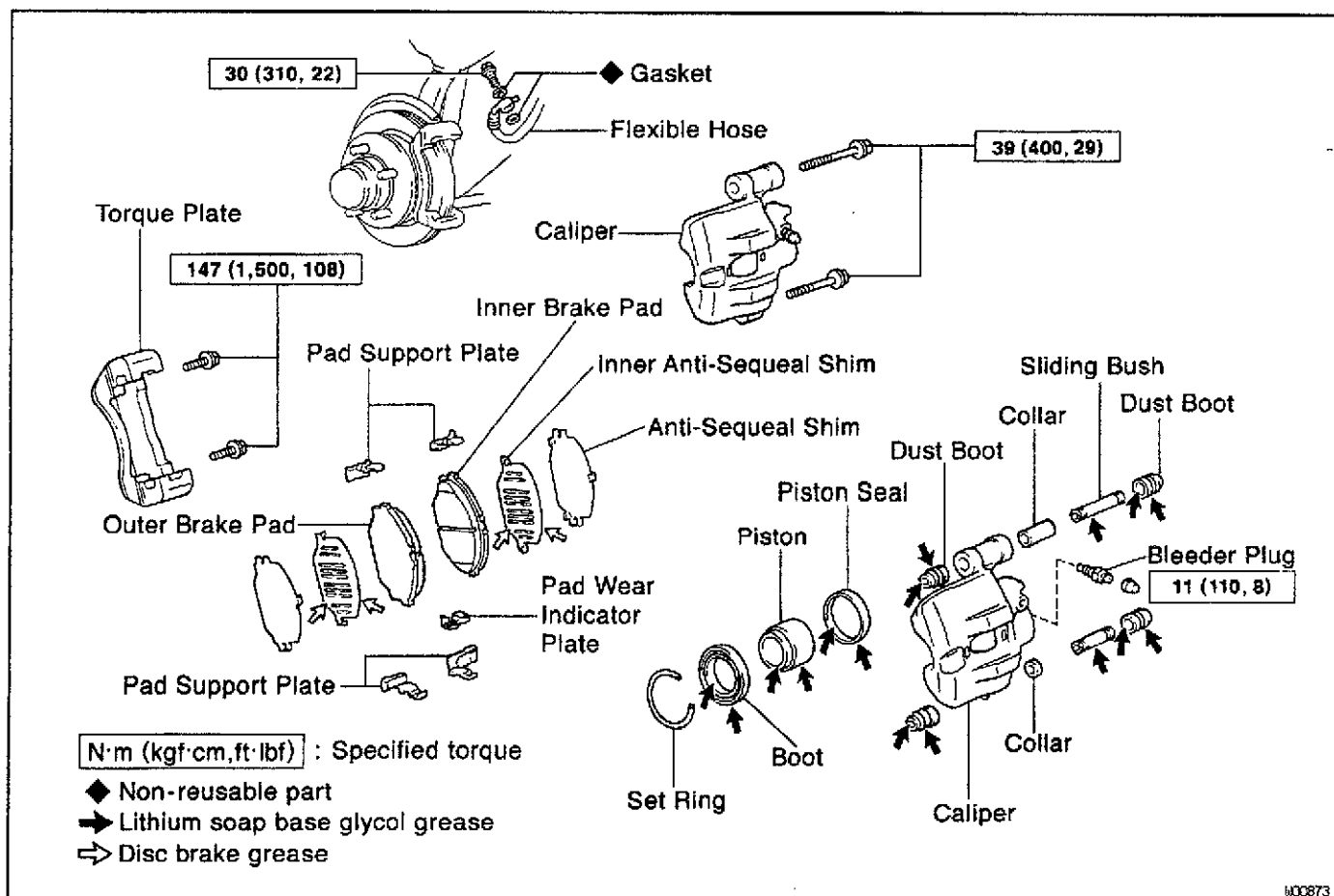
Pedal reserve distance from floor panel at 490 N (50 kgf, 110.2 lbf):

More than 58 mm (2.28 in.)

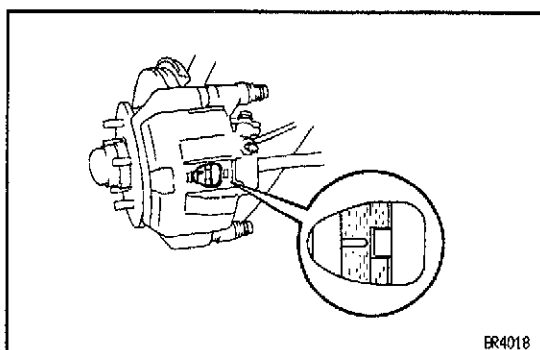
If the reserve distance is incorrect, troubleshoot the brake system.

FRONT BRAKE (14 in. Type) COMPONENTS

BR103-01



BR102-01



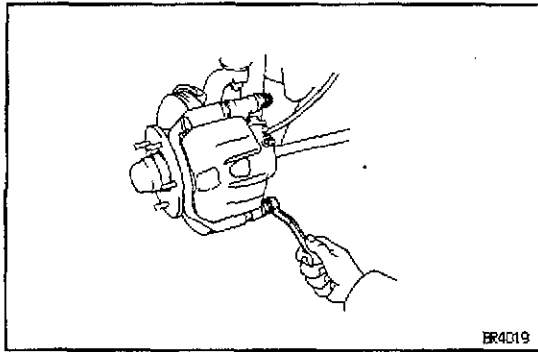
BRAKE PADS REPLACEMENT

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 CALIPER FROM TORQUE PLATE**

- (a) Remove the 2 installation bolts.
- (b) Remove the caliper and suspend it so the hose is not stretched.

HINT: Do not disconnect the flexible hose from the caliper.

4. REMOVE THESE PARTS:

- 2 brake pads
- 4 anti-squeal shims
- Pad wear indicator plate
- 4 pad support plates

NOTICE: The support plates can be used again provided that they have sufficient rebound, no deformation, cracks or wear, and have had all rust, dirt and foreign particles cleaned off.

5. CHECK DISC THICKNESS AND RUNOUT

(See page BR-7)

6. INSTALL 4 PAD SUPPORT PLATES TO TORQUE PLATE**7. INSTALL NEW PADS**

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

- (a) Install a pad wear indicator plate on the inner pad.
- (b) Apply disc brake grease to both sides of the inner anti-squeal shim (See page BR-4).
- (c) Install the 2 anti-squeal shims on each pad.
- (d) Install inner pad with the pad wear indicator plate facing downward, and install outer pad.

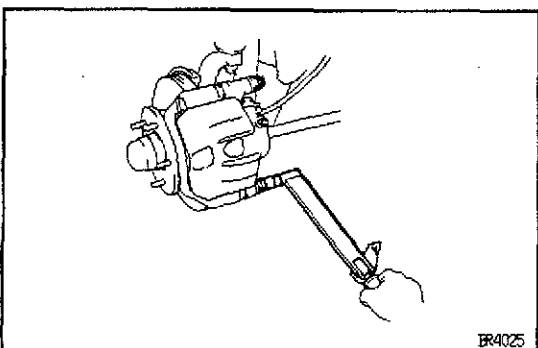
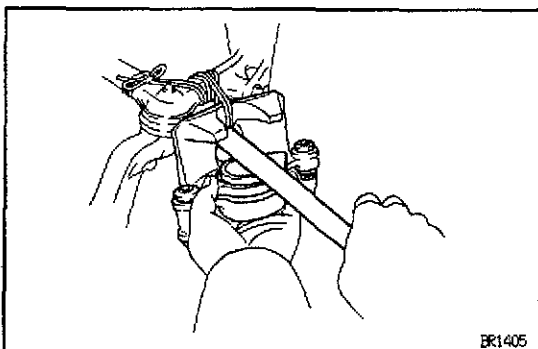
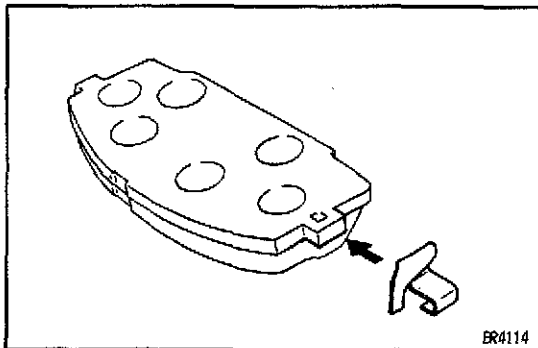
NOTICE: There should be no oil or grease adhering to the friction surfaces of the pads or the disc.

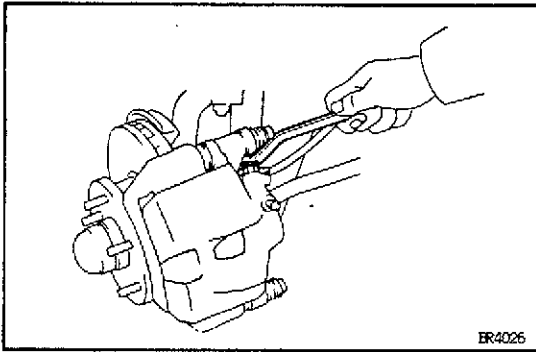
8. INSTALL CALIPER

- (a) Draw out a small amount of brake fluid from the reservoir.
- (b) Press in the piston with a hammer handle or similar implement.

HINT: If the piston is difficult to push in, loosen the bleeder plug and push in the piston while letting some brake fluid escape.

- (c) Install the caliper.
- (d) Install and torque the 2 installation bolts.
Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

9. INSTALL FRONT WHEEL**10. CHECK THAT FLUID LEVEL IS AT MAX LINE**



BR4026

CALIPER REMOVAL

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)

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

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

2. REMOVE CALIPER

- (a) Remove the 2 installation bolts.

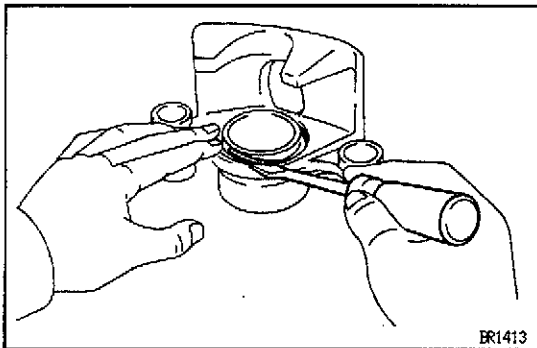
Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

- (b) Remove the caliper from the torque plate.

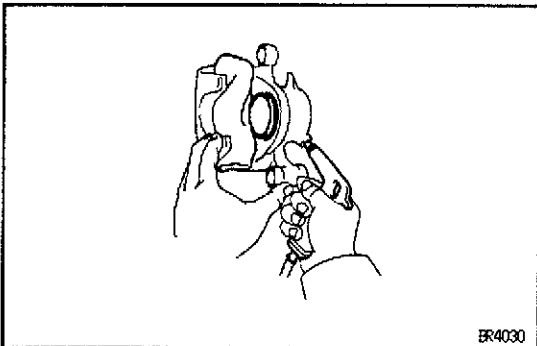
3. REMOVE THESE PARTS:

- 2 brake pads with anti-squeal shims
- 4 pad support plates

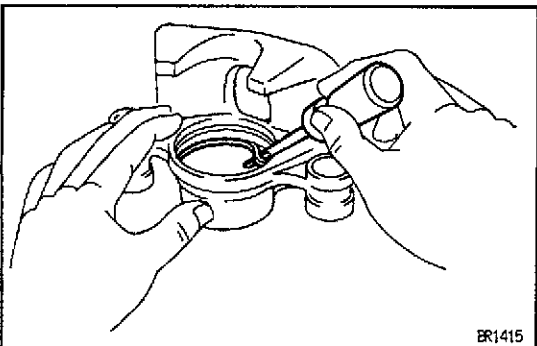
BR



BR1413



BR4030



BR1415

CALIPER DISASSEMBLY

BR15D-01

1. REMOVE THESE PARTS:

- 2 sliding bushings
- 4 dust boots
- 2 collars

ASSEMBLY NOTICE: Make sure the boots are secured firmly to each caliper and bushing groove.

2. REMOVE SET RING AND CYLINDER BOOT

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

3. REMOVE PISTON

- (a) Place a piece of cloth, or similar object, between the piston and caliper.
- (b) Use compressed air to remove the piston from the cylinder.

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

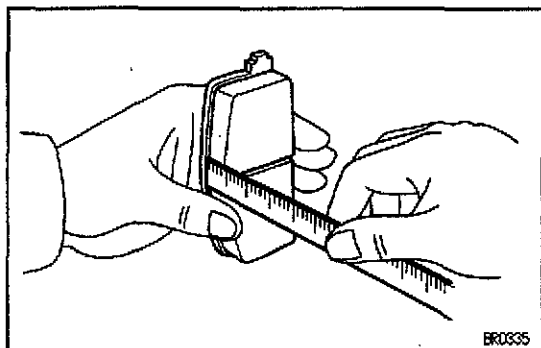
4. REMOVE PISTON SEAL

Using a screwdriver, remove the piston seal from the cylinder.

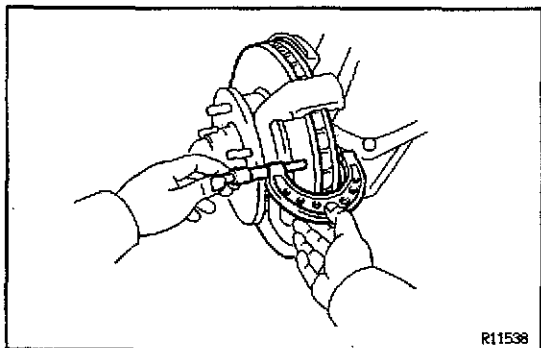
CALIPER ASSEMBLY

Assembly is in the reverse order of disassembly.

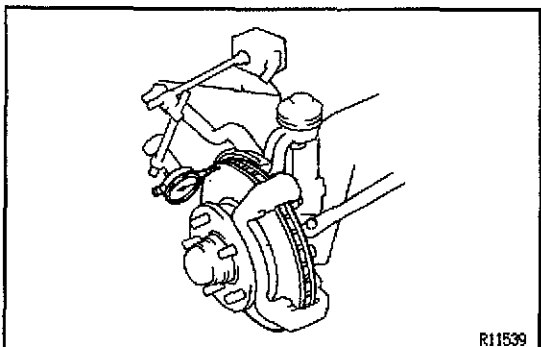
ASSEMBLY NOTICE: Apply lithium soap base glycol grease to the parts indicated by the arrows (See page BR-4).



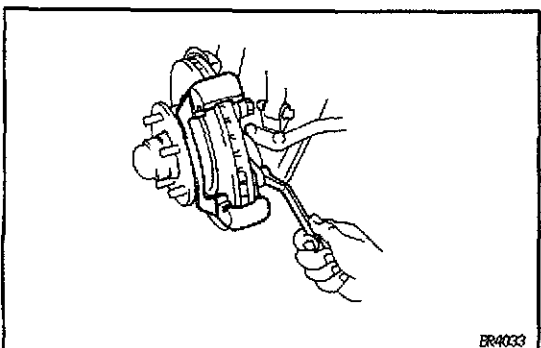
BR0335



R11538



R11539



BR4033

FRONT BRAKE COMPONENTS INSPECTION AND REPAIR

BR1EF-01

1. MEASURE PAD LINING THICKNESS

Using a ruler, measure the pad lining thickness.

Standard thickness:

10.0 mm (0.394 in.)

Minimum thickness:

1.0 mm (0.039 in.)

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

2. MEASURE DISC THICKNESS

Using a micrometer, measure the disc thickness.

Standard thickness:

25.0 mm (0.984 in.)

Minimum thickness:

23.0 mm (0.906 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 badly scored or 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 of the disc.

Maximum disc runout:

0.09 mm (0.0035 in.)

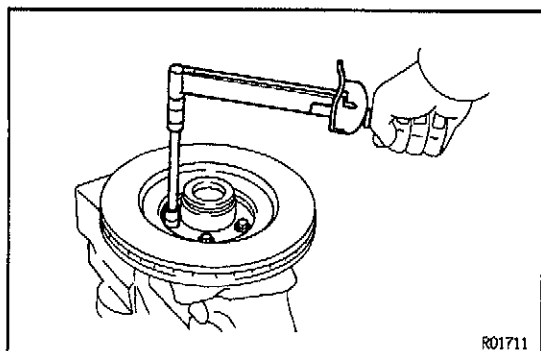
If the runout is greater than the maximum, replace the disc.

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

4. IF NECESSARY, REPLACE DISC

- (a) Remove the 2 bolts and torque plate from the knuckle.
- (b) Remove the axle hub with the disc (See Pub. No. RM 156E on page SA-13).
- (c) Remove the disc from the axle hub.

BR



- (d) Install a new disc to the axle hub. Torque the bolts.
Torque: 68 N·m (700 kgf·cm, 51 ft·lbf)
- (e) Install the axle hub and adjust the front bearing pre-load (See Pub. No. RM156E on page SA—15).
- (f) Install the torque plate and torque the 2 bolts.
Torque: 147 N·m (1,500 kgf·cm, 108 ft·lbf)

CALIPER INSTALLATION

BR1EQ-01

Installation is in the reverse order of removal.
AFTER INSTALLATION, FILL BRAKE RESERVOIR WITH BRAKE FLUID, BLEED BRAKE SYSTEM (See Pub. No. RM156E on page BR—7) AND CHECK FOR LEAKS