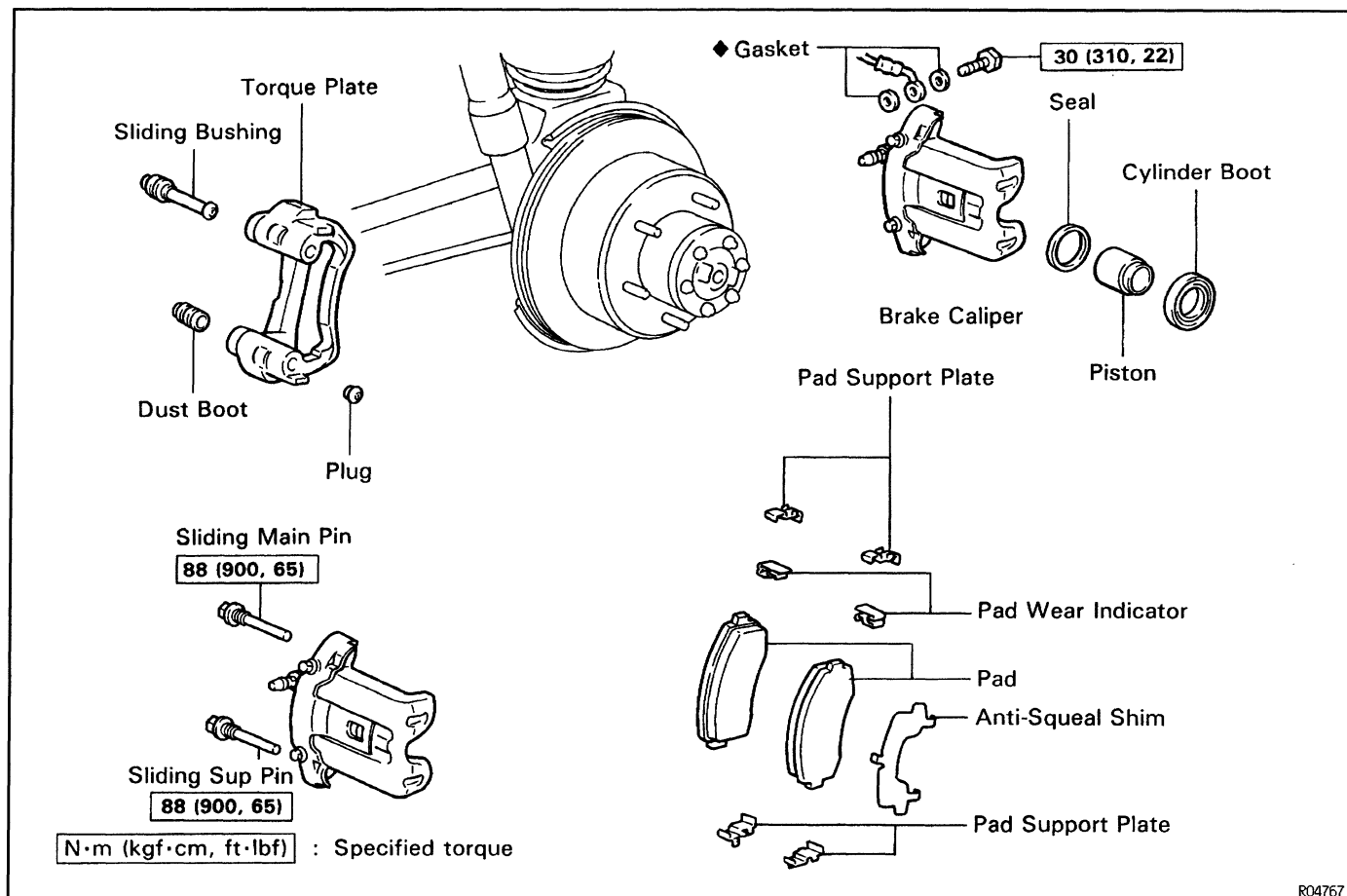
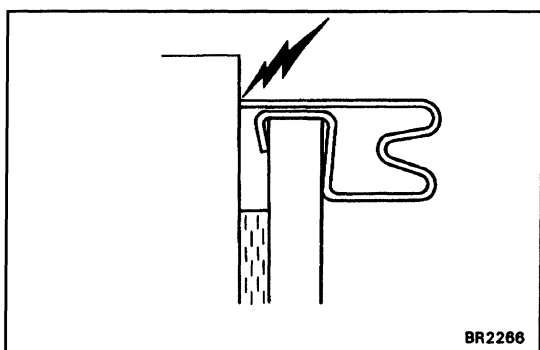


# REAR BRAKE (Disc Brake) COMPONENTS

BR020-03



R04767



## BRAKE PADS REPLACEMENT

BR0FZ-01

**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 disc, the brake pads should be replaced.

### 1. REMOVE REAR WHEEL

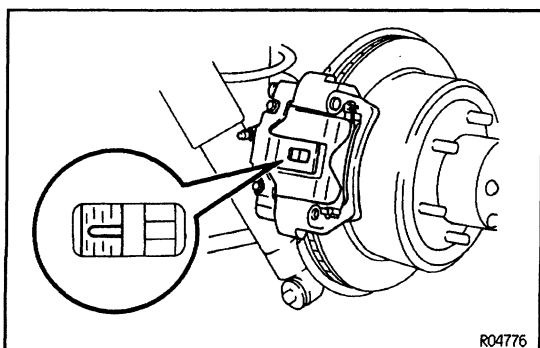
Remove the wheel and temporarily fasten the disc with the hub nuts.

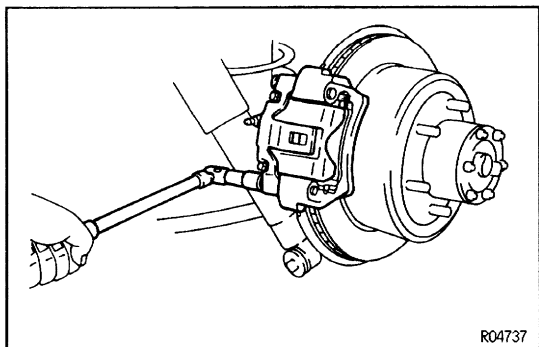
### 2. INSPECT PAD LINING THICKNESS

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

**Minimum thickness:**

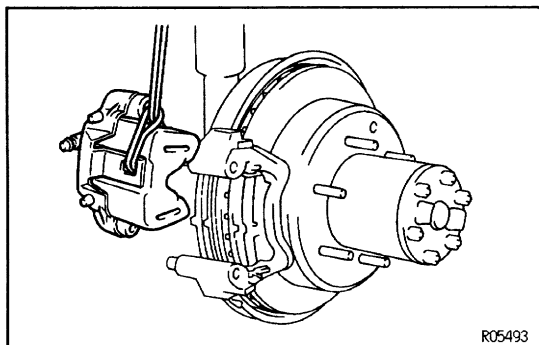
**1.0 mm (0.039 in.)**





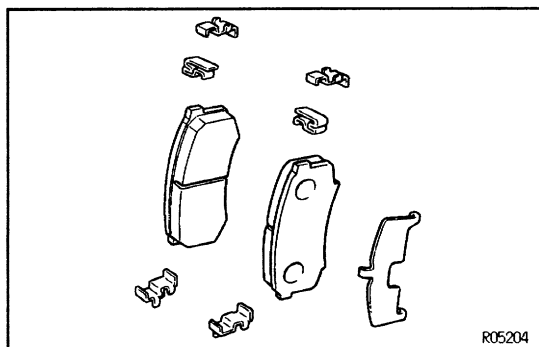
### 3. REMOVE BRAKE CALIPER

- (a) Remove the sliding main pin and sliding sub pin.



- (b) Remove the brake caliper and suspend it so the hose is not stretched.

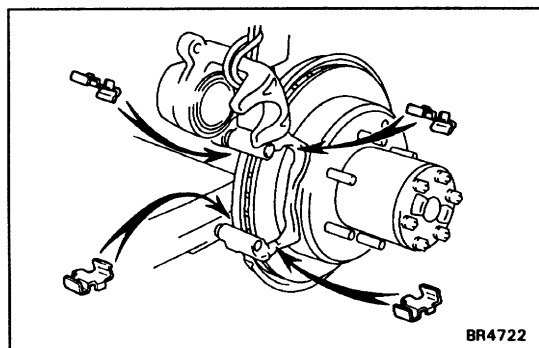
HINT: Do not disconnect the brake hose.



### 4. REMOVE FOLLOWING PARTS:

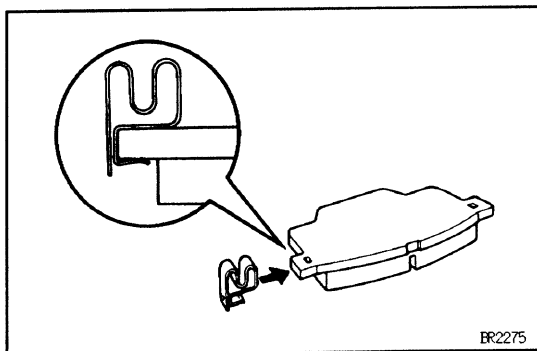
- (a) Two brake pads
- (b) Anti-squeal shim
- (c) Four pad support plates
- (d) Two pad wear indicators

### 5. CHECK DISC THICKNESS AND RUNOUT (SEE PAGE [BR-43](#))



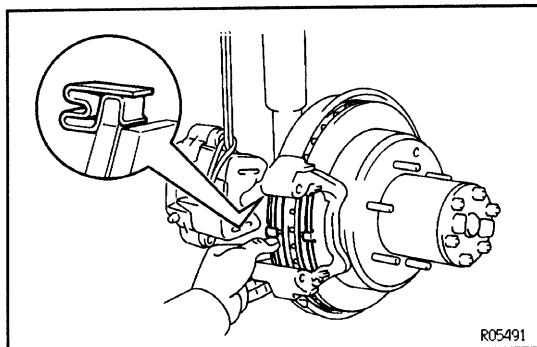
### 6. INSTALL PAD SUPPORT PLATES

Install the four pad support plates.



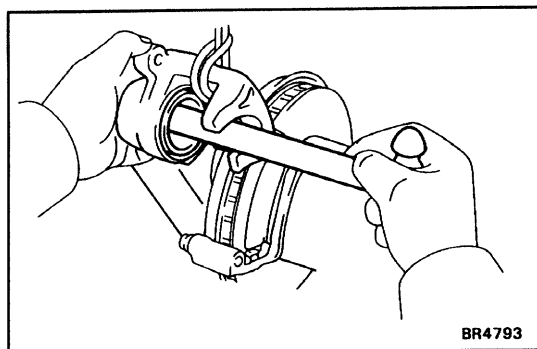
## 7. INSTALL NEW PADS

- (a) Install pad wear indicator plate to each pads.
- (b) Install the anti-squeal shim to the outer pad.



- (c) Install the two pads so the wear indicator plate is facing upward.

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

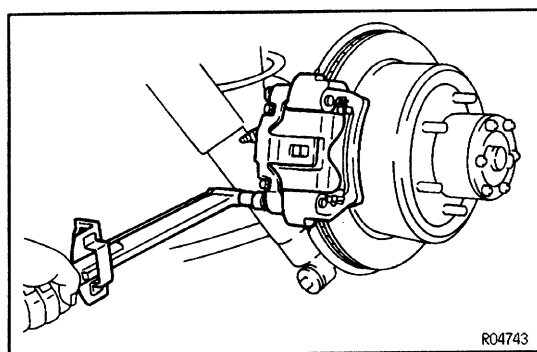


## 8. INSTALL CALIPER

- (a) Draw out a small amount of brake fluid from reservoir.
- (b) Press in piston 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 brake caliper carefully so the boot is not wedged.



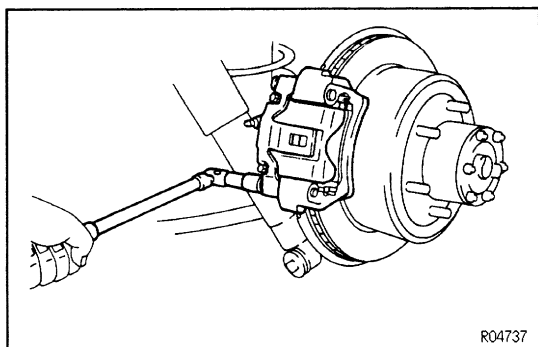
- (d) Install and torque the sliding main pin and sub pin.  
**Torque: 88 N-m (900 kgf-cm, 65 ft-lbf)**

## CALIPER REMOVAL

BR000-01

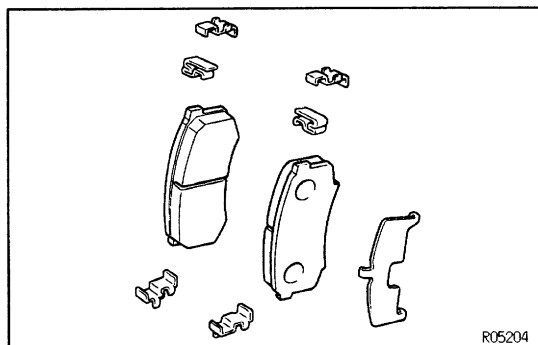
### 1. DISCONNECT FLEXIBLE HOSE

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



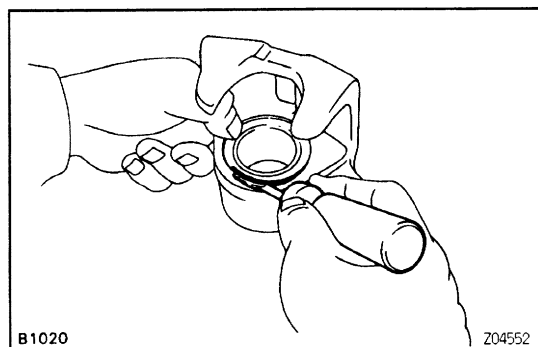
## 2. REMOVE CALIPER

Remove the two sliding pins and caliper.



## 3. REMOVE TWO PADS

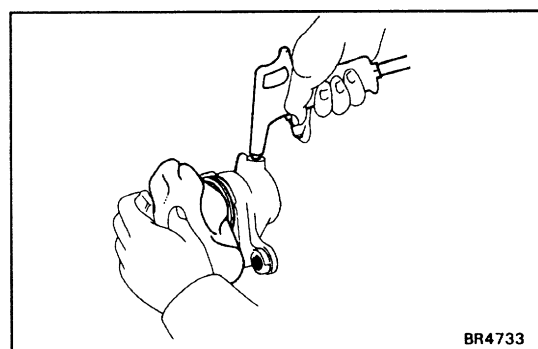
(See page [BR-38](#))



## CALIPER DISASSEMBLY

### 1. REMOVE CYLINDER BOOT

Using a screwdriver, remove the cylinder boot from the caliper.

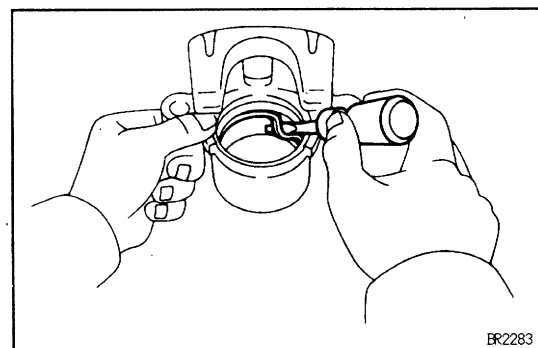


### 2. REMOVE PISTON

(a) Place a piece of cloth or similar article between the piston and the caliper.

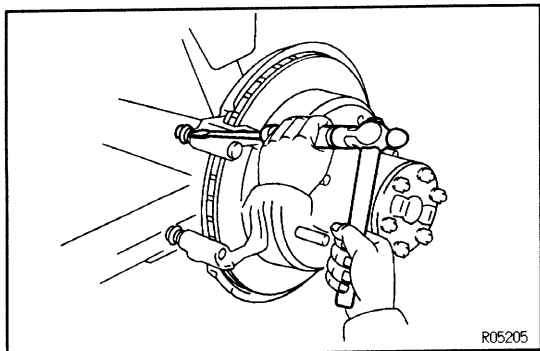
(b) Use compressed air to remove the piston from the caliper.

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



### 3. REMOVE PISTON SEAL

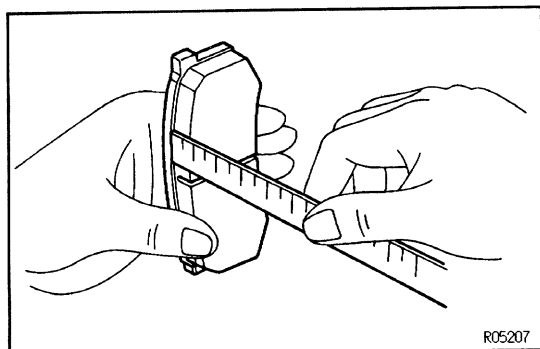
Using a screwdriver, remove the piston seal from the caliper.



#### 4. REMOVE PIN BOOT AND SLIDING BUSHING

Using a screwdriver and hammer, tap out pin boot and sliding bushing.

HINT: Tape the screwdriver tip before use.



## REAR DISC BRAKE COMPONENTS INSPECTION AND REPAIR

BR024-02

### 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 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.

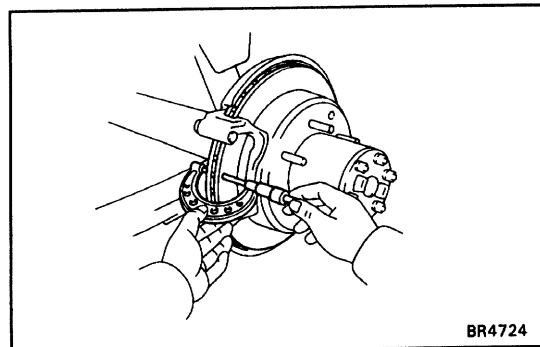
**Standard thickness:**

**18.0 mm (0.630 in.)**

**Minimum thickness:**

**16.0 mm (0.709 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

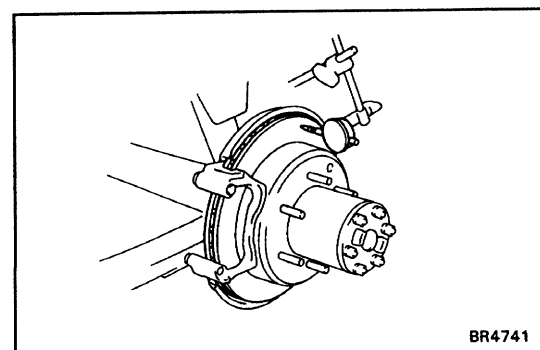
Measure the disc runout at 10 mm (0.39 in.) from the outer edge of the disc.

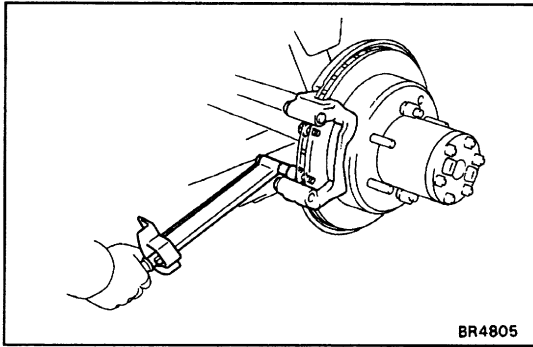
**Maximum disc runout:**

**0.15 mm (0.0059 in.)**

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

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

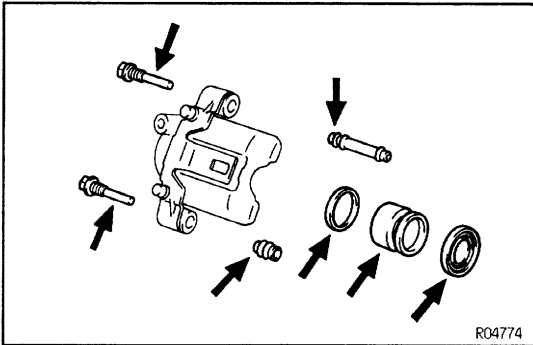




#### 4. IF NECESSARY, REPLACE DISC

- (a) Remove the torque plate.
- (b) Remove the hub nuts of the temporarily installed disc and pull off the disc.
- (c) Install a new disc and loosely install the hub nuts.
- (d) Install the torque plate and tighten the mounting bolts.

**Torque: 103 N-m (1,050 kgf-cm, 76 ft-lbf)**

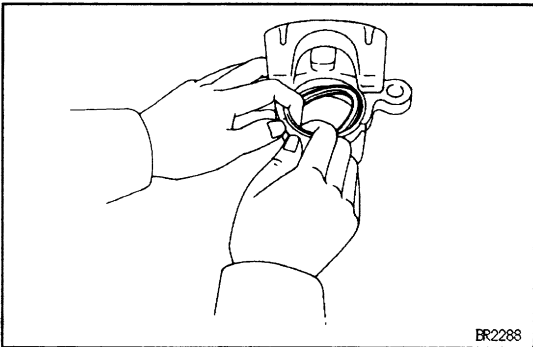


### CALIPER ASSEMBLY

BR002-01

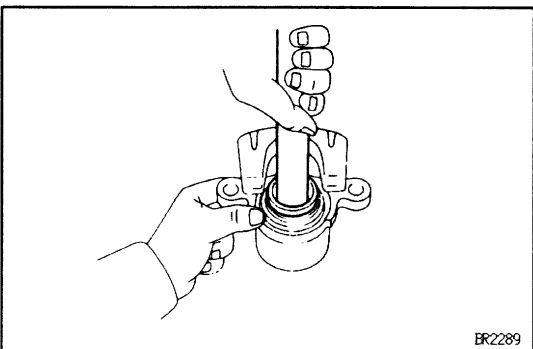
#### 1. APPLY LITHIUM SOAP BASE GLYCOL GREASE TO PARTS INDICATED WITH ARROWS

- (a) Sliding bushing, hole plug and dust boot
- (b) Piston, piston seal and cylinder boot
- (c) Sliding pins

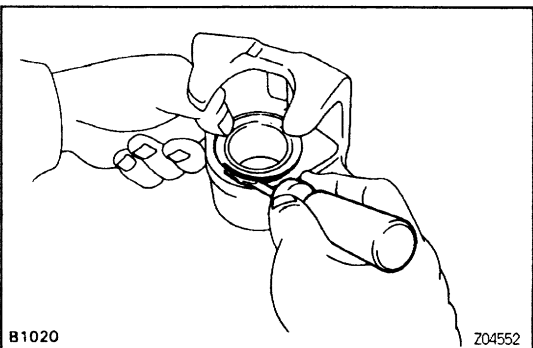


#### 2. INSTALL PISTON SEAL AND PISTON IN CALIPER

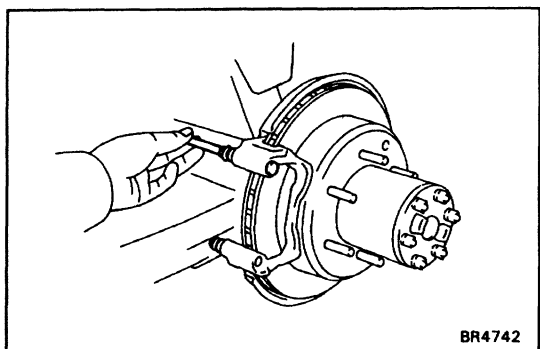
- (a) Install the piston seal into the caliper.



- (b) Install the piston into the caliper.

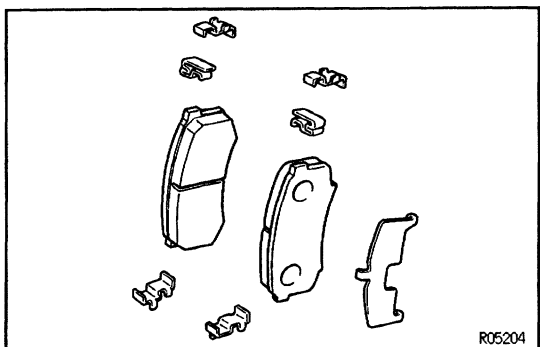


#### 3. INSTALL CYLINDER BOOT AND SET RING IN CALIPER



#### 4. INSTALL DUST BOOT AND SLIDING BUSHING

- Install the dust boot into the sliding main pin side.
- Using a plastic bar, install the cylinder sliding bushing into the sliding main pin side.



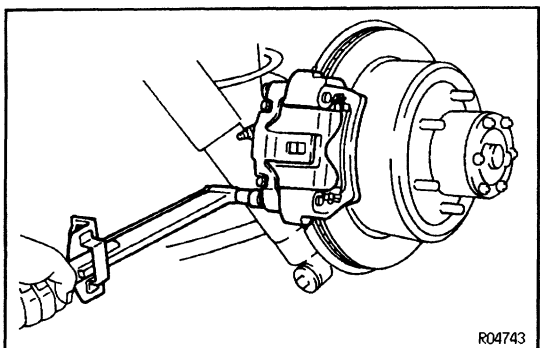
### CALIPER INSTALLATION

BROG3-01

#### 1. INSTALL TWO PADS

Install two pads with the pad wear indicator plates facing upward.

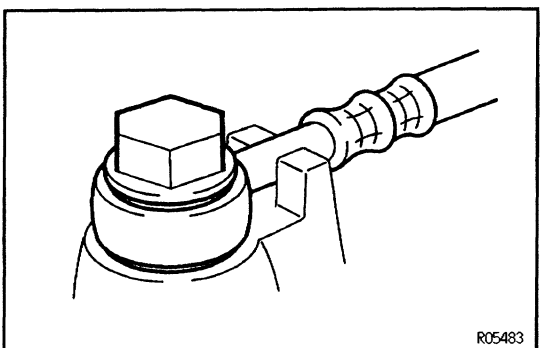
**NOTICE:** There should be no oil or grease adhering to the friction surfaces of the pads or the disc.



#### 2. INSTALL CALIPER

Install the brake caliper and torque the installation bolt.

**Torque: 88 N-m (900 kgf-cm, 65 ft-lbf)**



#### 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:** Insert 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