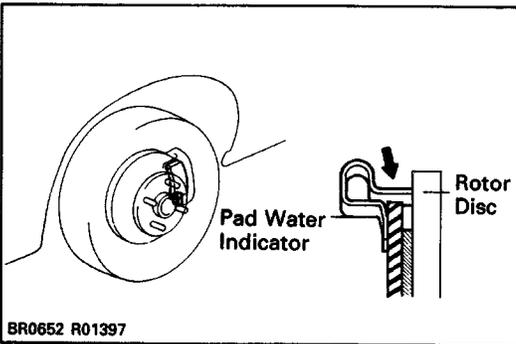
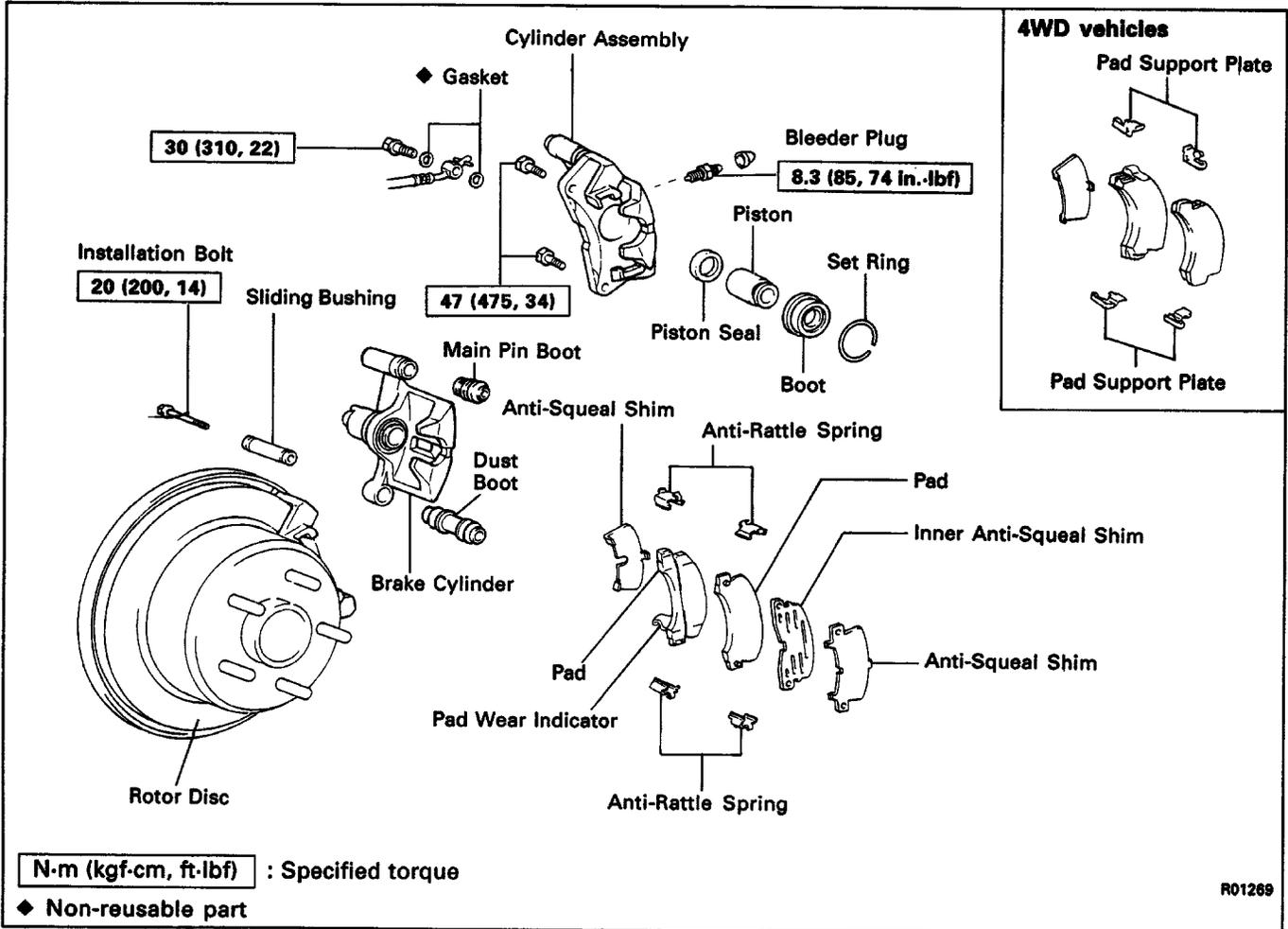
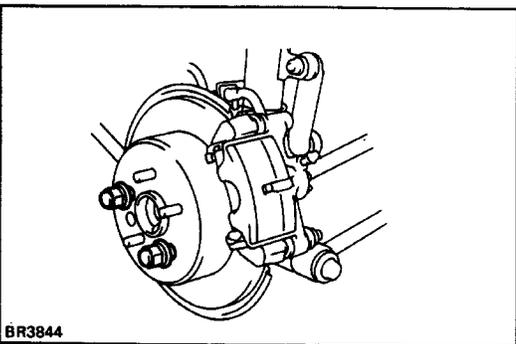


Disc Brake COMPONENTS



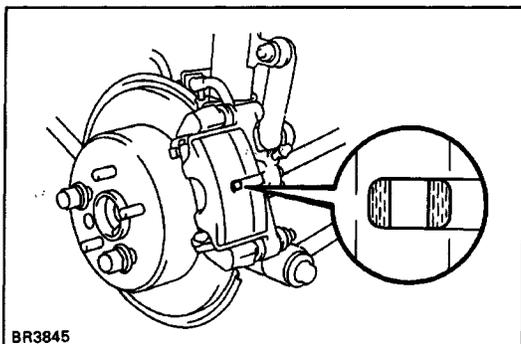
REPLACEMENT OF BRAKE PADS

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



1. REMOVE REAR WHEEL

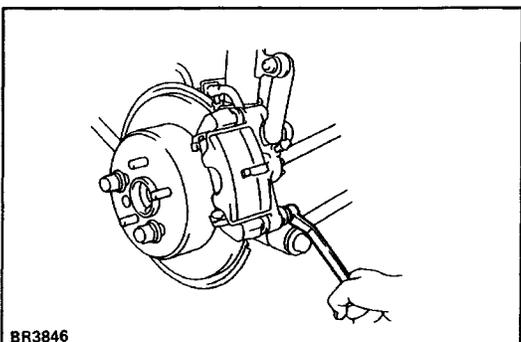
Remove the wheel and temporarily fasten the rotor disc with the hub nuts.



2. INSPECT PAD LINING THICKNESS

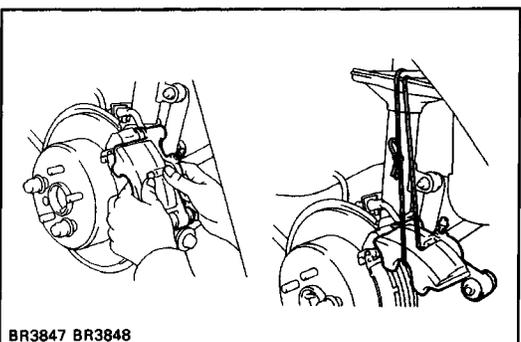
Check the pad thickness through the cylinder inspection hole and replace the pads if the thickness is not within specification.

Minimum thickness: 1.0 mm (0.039 in.)



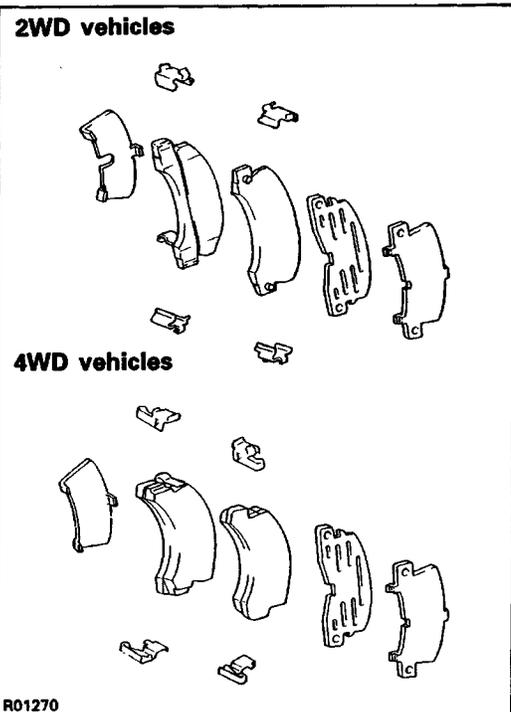
3. LIFT UP CYLINDER

(a) Remove the installation bolt from the torque plate.



(b) Lift up the brake cylinder 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) Three anti-squeal shims
- (c) Four anti-rattle springs (2WD vehicles)
- (d) Four pad support plates (4WD vehicles)

5. CHECK ROTOR DISC THICKNESS

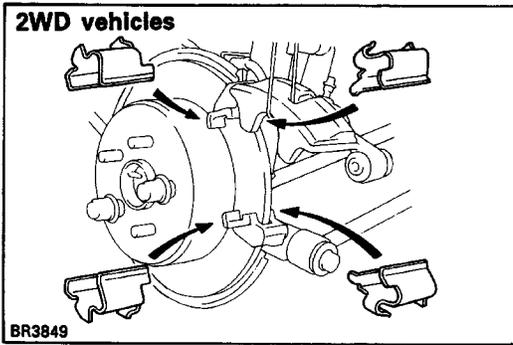
(See step 2 on page [BR-41](#))

6. CHECK ROTOR DISC RUNOUT

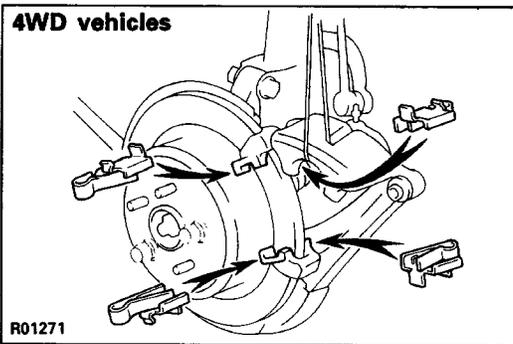
(See step 3 on page [BR-41](#))

7. INSTALL ANTI-RATTLE SPRINGS

Install the four anti-rattle springs.

**7. (2WD vehicles)****INSTALL ANTI-RATTLE SPRINGS**

Install the four anti-rattle springs.

**8. (4WD vehicles)****INSTALL PAD SUPPORT PLATES**

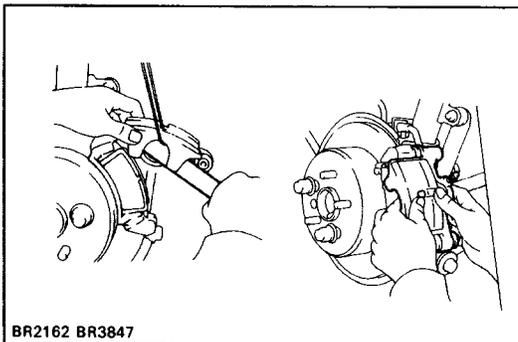
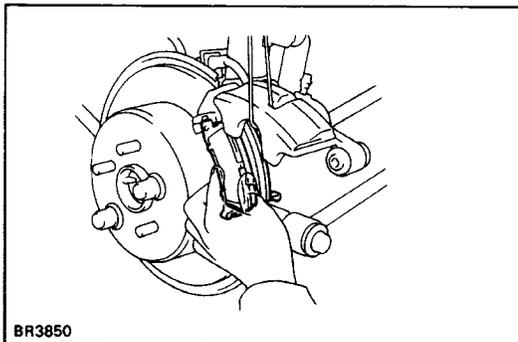
Install four pad support plates.

9. INSTALL NEW PADS

- (a) Apply disc brake grease to both sides of the inner anti-squeal shim.
- (b) Install the two anti-squeal shims to the outside pad.
- (c) Install the anti-squeal shim to the inside pad.

- (d) Install the two pads with the pad wear indicator plates facing downward.

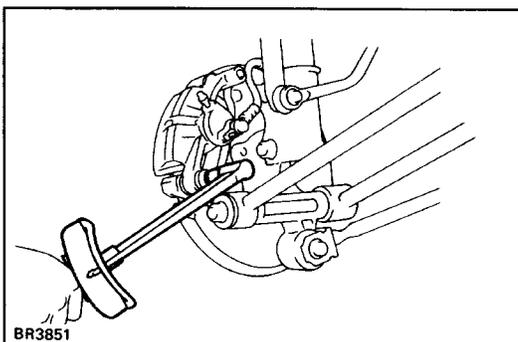
NOTICE: There should be no oil or grease adhering to the friction surfaces of the pads or the rotor disc.

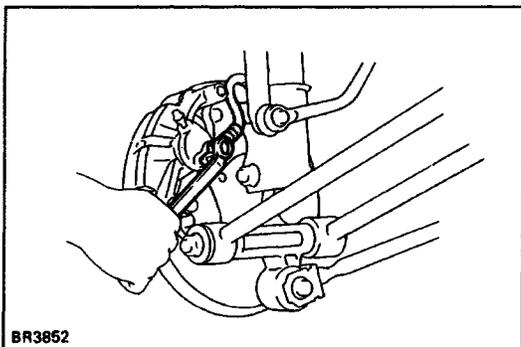
**9. INSTALL CYLINDER**

- (a) Draw out a small amount of brake fluid from the reservoir tank.
 - (b) Press in the piston with a hammer handle or an equivalent.
- HINT: If the piston is heavy and difficult to push in, loosen the bleeder plug and push in the piston while letting some brake fluid escape.
- (c) Install the brake cylinder.

- (d) Install and torque the installation bolt.

Torque: 20 N-m (200 kgf-cm, 14 ft-lbf)

10. INSTALL REAR WHEEL**11. FILL BRAKE FLUID**

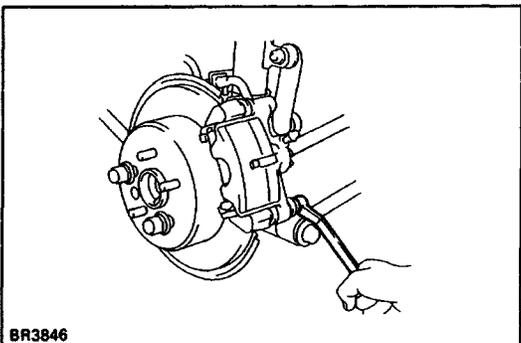


REMOVAL OF CYLINDER

(See page [BR-36](#))

1. DISCONNECT FLEXIBLE HOSE

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



2. REMOVE CYLINDER FROM TORQUE PLATE

Remove the installation bolt and cylinder.

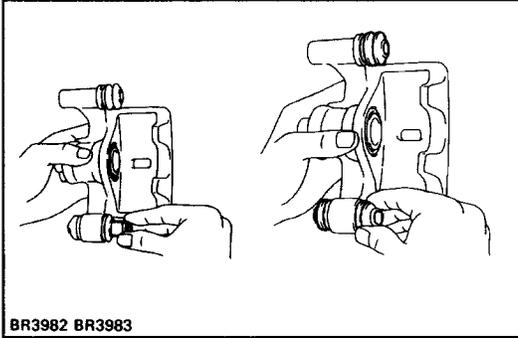
3. REMOVE PADS

(See page [BR-37](#))

DISASSEMBLY OF CYLINDER

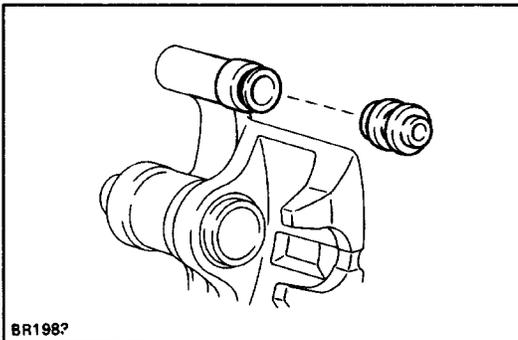
(See page [BR-36](#))

1. REMOVE SLIDING BUSHING AND DUST BOOT



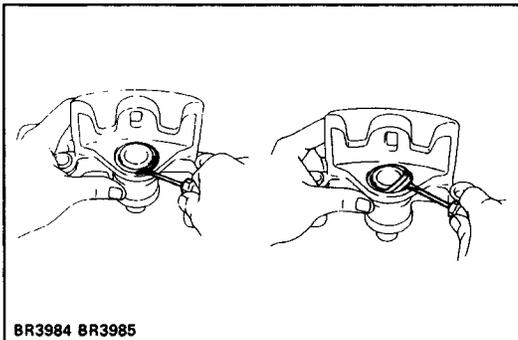
2. REMOVE MAIN PIN BOOT

Pull out the main pin boot.



3. REMOVE CYLINDER BOOT SET RING AND CYLINDER BOOT

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

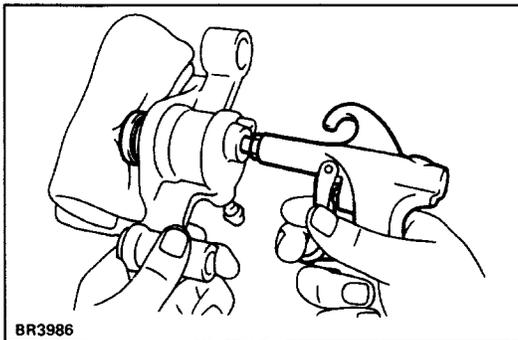


4. REMOVE PISTON FROM CYLINDER

(a) Put a piece of cloth or an equivalent between the piston and cylinder.

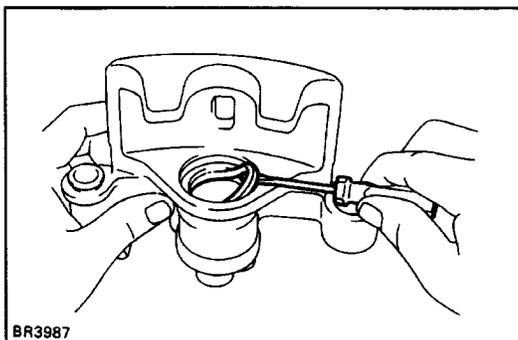
(b) Use compressed air to remove the piston from the cylinder.

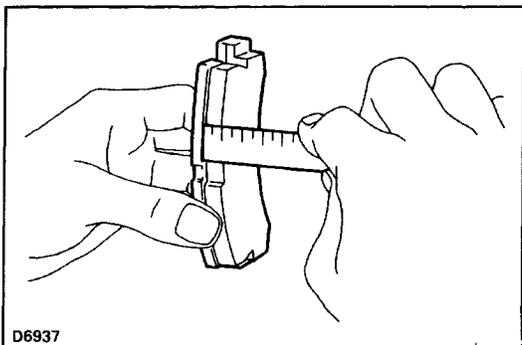
CAUTION: Do not place your fingers in front of the piston when using compressed air.



5. REMOVE PISTON SEAL FROM BRAKE CYLINDER

Using a screwdriver, remove the piston seal.





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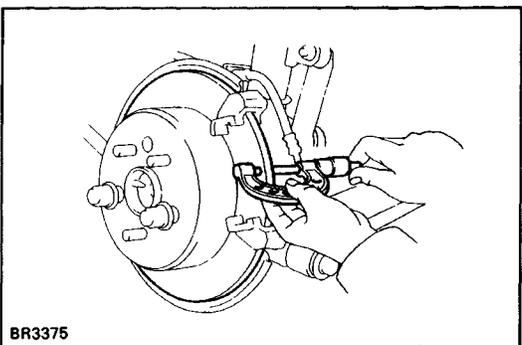
INSPECTION AND REPAIR OF REAR BRAKE COMPONENTS

1. MEASURE 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 is less than the minimum or if it shows sign of uneven wear.



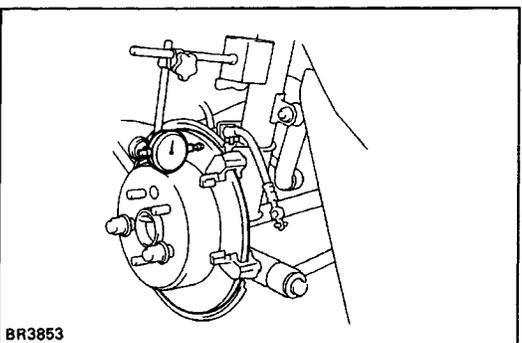
BR3375

2. MEASURE ROTOR DISC THICKNESS

Standard thickness: 10.0 mm (0.394 in.)

Minimum thickness: 9.0 mm (0.354 in.)

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



BR3853

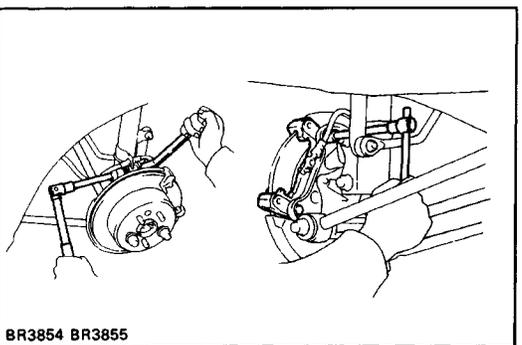
3. MEASURE ROTOR DISC RUNOUT

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 the maximum, replace the disc.

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



BR3854 BR3855

4. IF NECESSARY, REPLACE ROTOR DISC

(a) Remove the axle carrier mounting bolt and nut of upper side.

(b) Remove the torque plate.

(c) Remove the hub nuts of the temporarily installed disc and pull off the rotor disc.

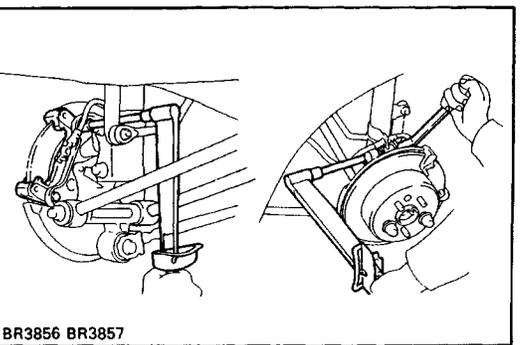
(d) Install a new rotor disc and loosely install the hub nuts.

(e) Install the torque plate and tighten the mounting bolt.

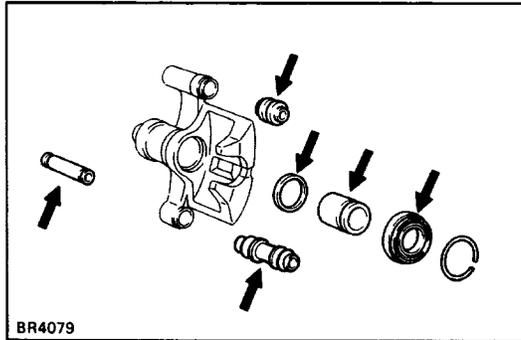
Torque: 47 N-m (475 kgf-cm, 34 ft-lbf)

(f) Install the axle carrier mounting bolt and nut of upper side.

Torque: 226 N-m (2,300 kgf-cm, 166 ft-lbf)



BR3856 BR3857

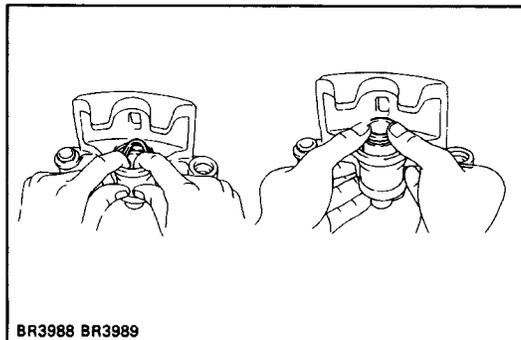


ASSEMBLY OF CYLINDER

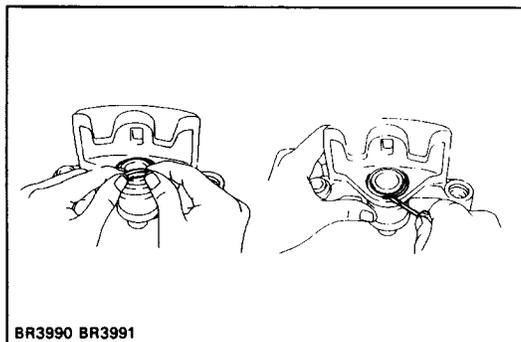
(See page BR-36)

1. APPLY LITHIUM SOAP BASE GLYCOL GREASE TO FOLLOWING PARTS:

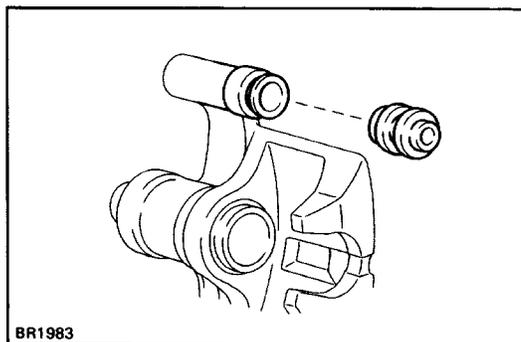
- (a) Main pin boot
- (b) Sliding bushing and dust boot
- (c) Piston, piston seal and cylinder boot



2. INSTALL PISTON SEAL AND PISTON IN CYLINDER

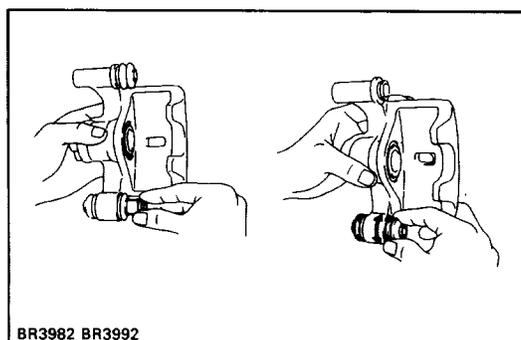


3. INSTALL CYLINDER BOOT AND SET RING IN CYLINDER



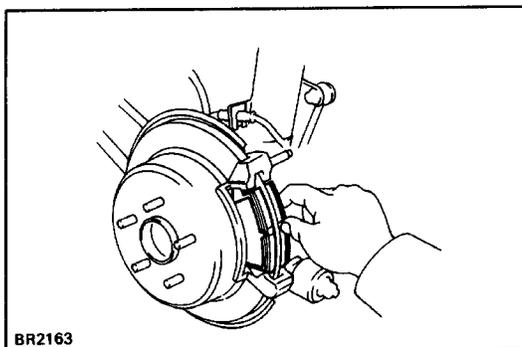
4. INSTALL MAIN PIN BOOT

Install the main pin boot in place.



5. INSTALL SLIDING BUSHING AND DUST BOOT

Install the sliding bushing and dust boot into the brake cylinder.



BR2163

INSTALLATION OF CYLINDER

(See page [BR-36](#))

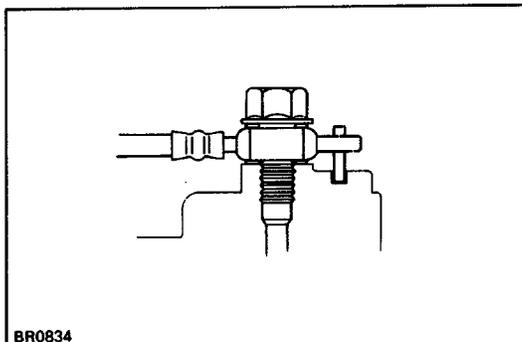
1. INSTALL PADS

2. INSTALL CYLINDER

(a) Install the brake cylinder.

(b) Install and torque the installation bolt.

Torque: 20 N-m (200 kgf-cm, 14 ft-lbf)



BR0834

3. INSTALL FLEXIBLE HOSE TO BRAKE CYLINDER

Install the flexible hose on the brake cylinder 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 cylinder.

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

(See page [BR-7](#))

5. CHECK FOR LEAKS