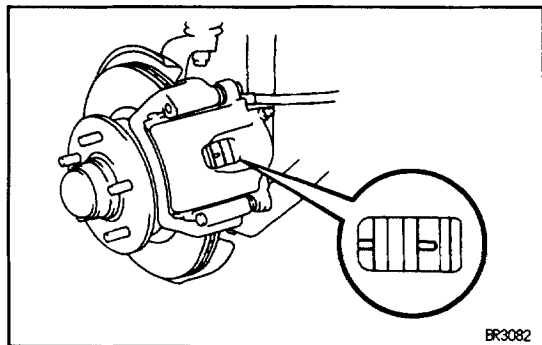
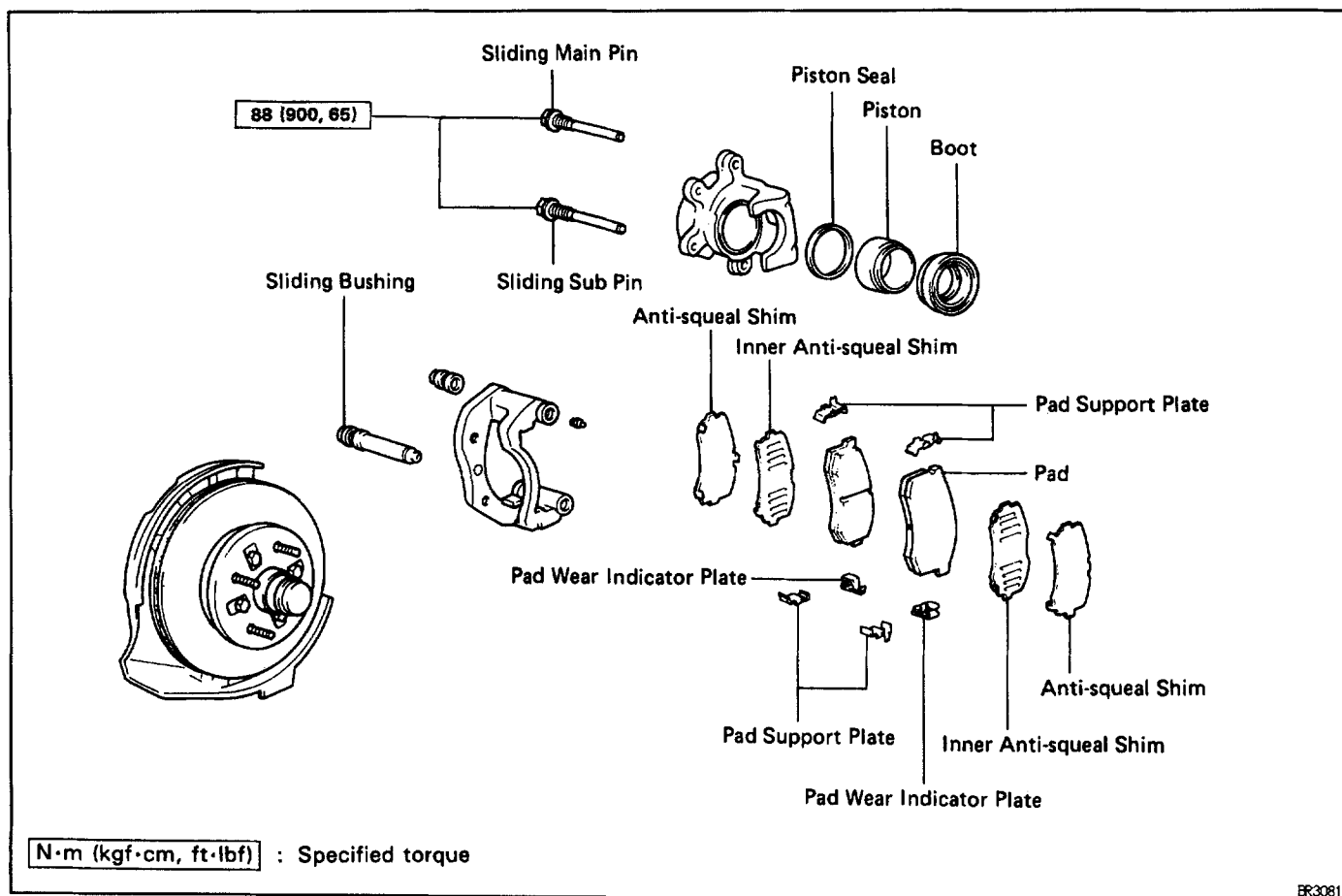


FRONT BRAKE 2WD COMPONENTS



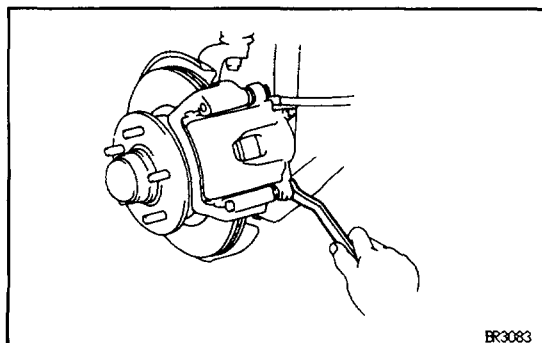
BRAKE PADS REPLACEMENT

1. REMOVE FRONT WHEEL
2. INSPECT PAD LINING THICKNESS

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

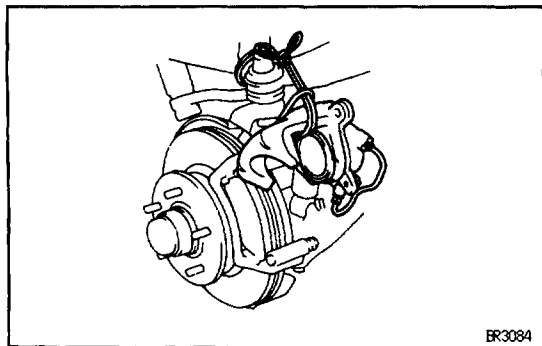
Minimum thickness:

1.0 mm (0.039 in.)



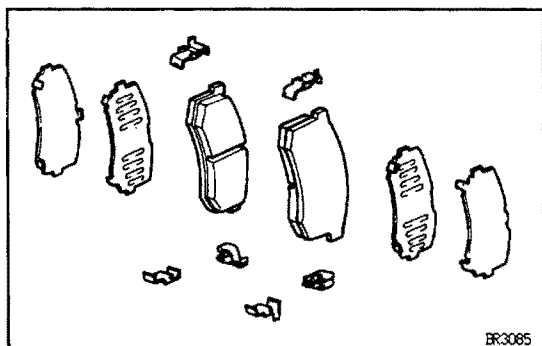
3. LIFT UP CALIPER

(a) Remove the sliding sub pin from the torque plate.



- (b) Lift up the caliper and suspend it, making sure the hose is not stretched.

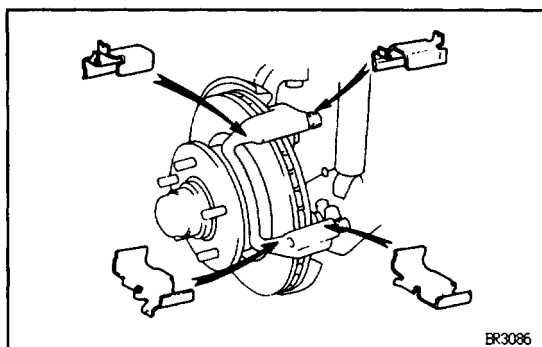
HINT: Do not disconnect the brake hose.



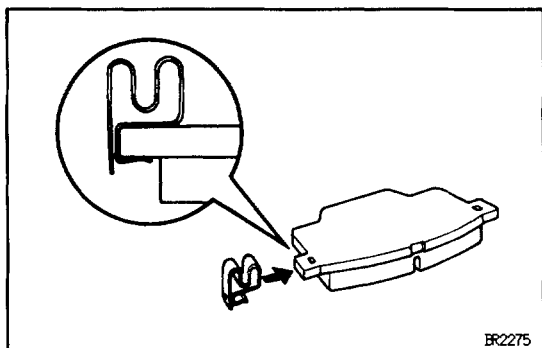
4. REMOVE FOLLOWING PARTS:

- (a) 2 brake pads
- (b) 4 anti-squeal shims
- (c) 2 pad wear indicator plates
- (d) 4 pad support plates

5. CHECK DISC THICKNESS AND RUNOUT (See page BR-21)



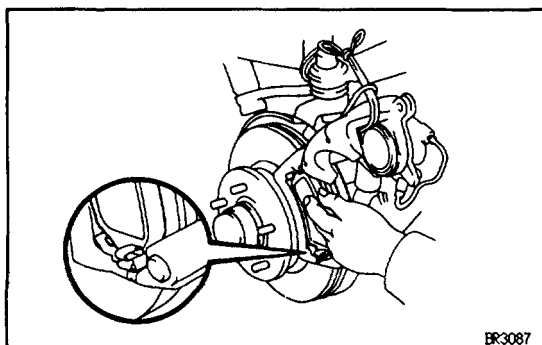
6. INSTALL PAD SUPPORT PLATES



7. INSTALL NEW PADS

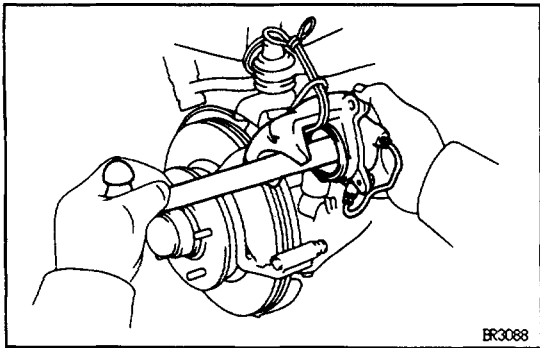
- (a) Install a pad wear indicator plate to the pad.
- (b) Install the 2 anti-squeal shims to each pad.

HINT: Apply disc brake grease to both side of the inner anti-squeal shim.



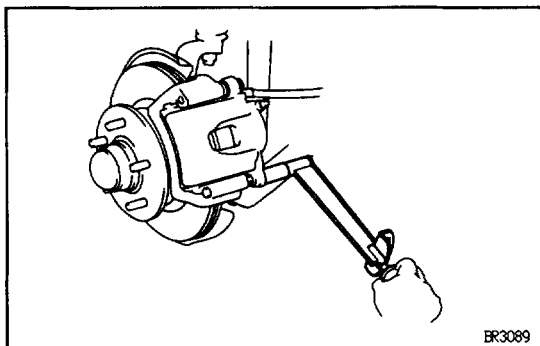
- (c) Install the 2 pads so that the wear indicator plate is facing underneath.

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



8. INSTALL CALIPER

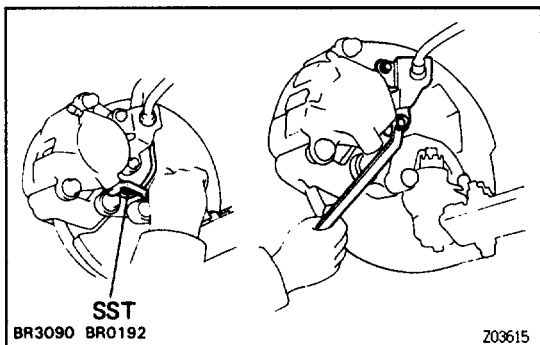
- (a) Draw out a small amount of brake fluid from the reservoir.
- (b) Press in piston with a hammer handle or an equivalent.
HINT: Always change the pad on one wheel at a time as there is a possibility of the opposite piston flying out.
- (c) Insert the caliper carefully so that the boot is not wedged.



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

9. INSTALL FRONT WHEEL

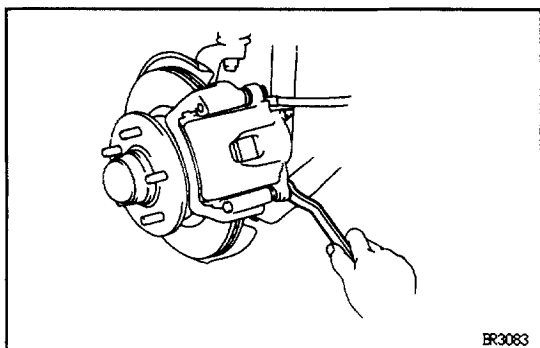
10. CHECK THAT FLUID LEVEL IS AT MAX LINE



CALIPER REMOVAL

1. DISCONNECT BRAKE LINE

- (a) Using SST, disconnect the brake line. Use a container to catch the brake fluid.
SST 09751-36011
- (b) Remove the bracket from the caliper.

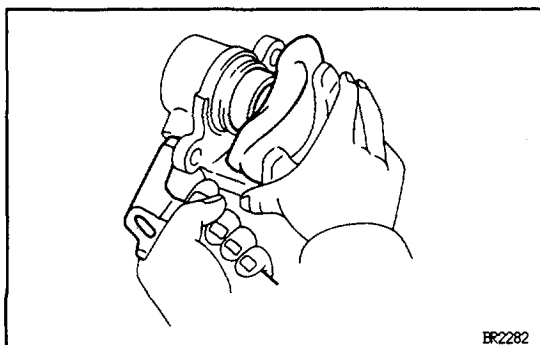


2. REMOVE CALIPER FROM TORQUE PLATE

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

3. REMOVE PADS

(See step 4 on page [BR-19](#))

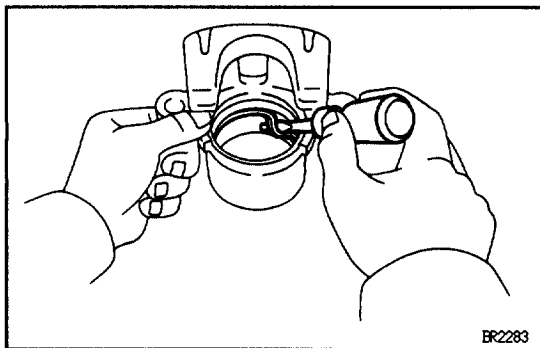


CALIPER DISASSEMBLY

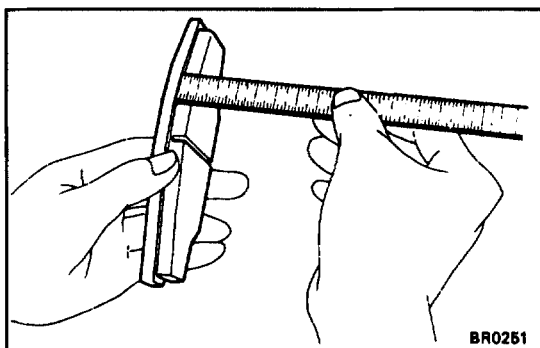
1. REMOVE PISTON FROM CALIPER

- (a) Put a piece of cloth or an equivalent between the piston and caliper.
- (b) Use compressed air to remove the piston and cylinder boot from the caliper.

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



- 2. REMOVE PISTON SEAL FROM CALIPER**
Using a screwdriver, remove the piston seal.



FRONT BRAKE COMPONENTS INSPECTION AND REPAIR

1. MEASURE PAD LINING THICKNESS

Standard thickness:

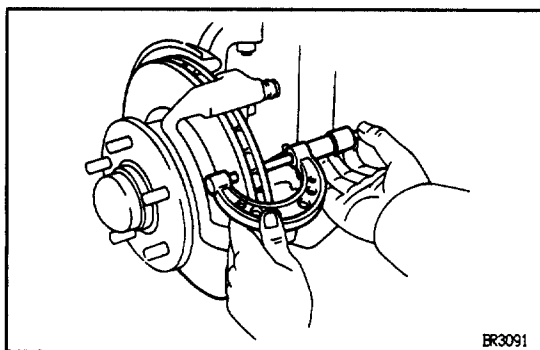
USA STD Model: 9.5 mm (0.374 in.)

Others: 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 (the 1.0 mm slit is no longer visible), or if it shows signs of uneven wear.



2. MEASURE DISC THICKNESS

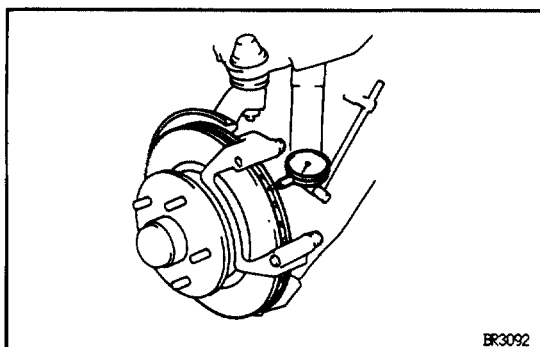
Standard thickness:

22.0 mm (0.866 in.)

Minimum thickness:

20.0 mm (0.787 in.)

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



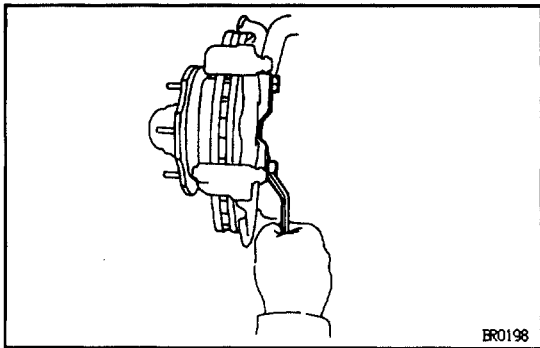
3. MEASURE DISC RUNOUT

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

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

Maximum disc runout:

0.09 mm (0.0035 in.)



4. IF NECESSARY, REPLACE DISC

- (a) Remove the torque plate from the knuckle.
- (b) Remove the axle hub. (See page [SA-14](#))
- (c) Remove the disc from the axle hub.
- (d) Install a new disc. Torque the bolts.
- (e) Install the axle hub and adjust the front bearing preload. (See page [SA-17](#))

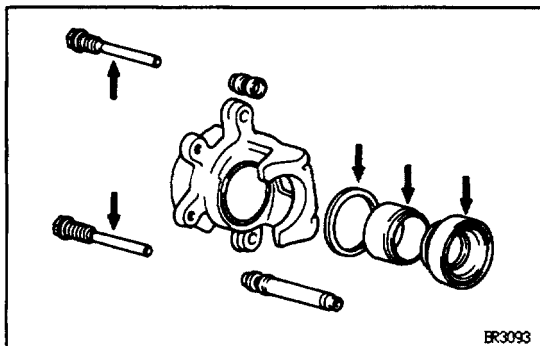
Torque: 64 N·m (650 kgf·cm, 47 ft·lbf)

- (f) Install the torque plate onto the knuckle.

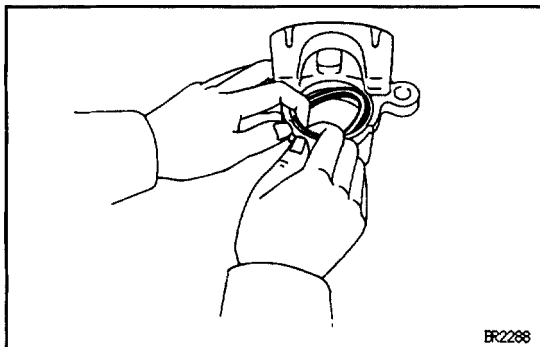
Torque: 108 N·m (1,100 kgf·cm, 80 ft·lbf)

CALIPER ASSEMBLY

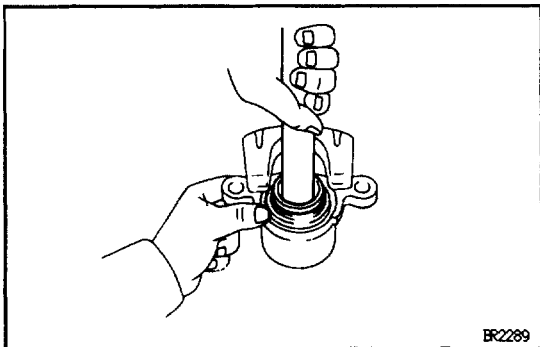
1. APPLY LITHIUM SOAP BASE GLYCOL GREASE TO PARTS INDICATED WITH ARROWS



2. INSTALL PISTON SEAL IN CALIPER

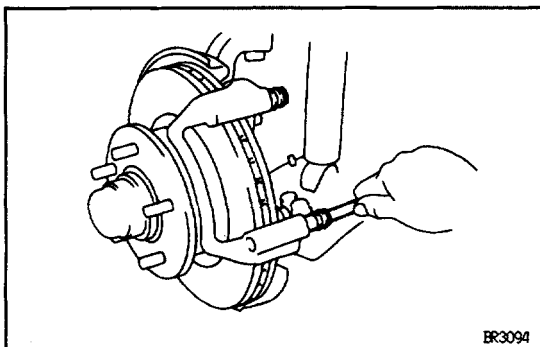


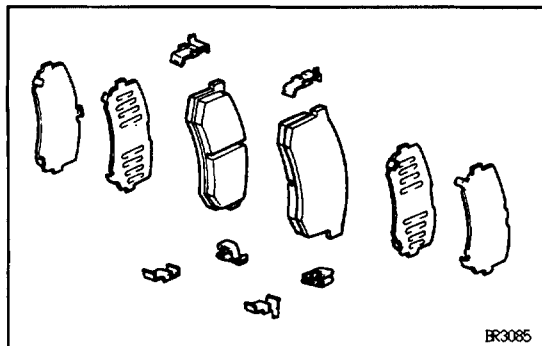
3. INSTALL PISTON AND CYLINDER BOOT IN CALIPER



4. INSTALL PIN BOOT AND CALIPER SLIDING BUSHING

- (a) Install the pin boot into the sliding sub pin side.
- (b) Using a plastic bar, install the caliper sliding bushing into the sliding sub pin side.

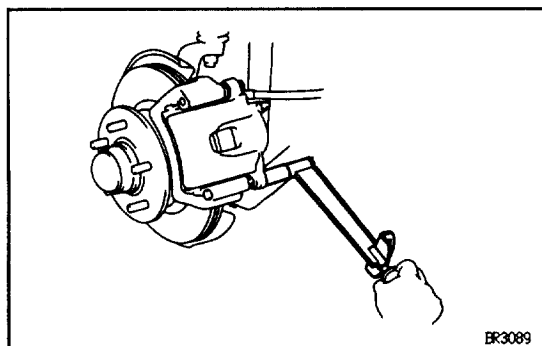




CALIPER INSTALLATION

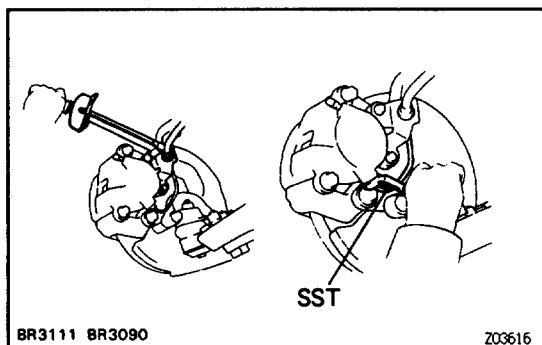
1. INSTALL PADS

(See steps 6 of 7 on page [BR-19](#))



2. INSTALL CALIPER

- (a) Install the caliper.
- (b) Install and torque the 2 sliding pins.
Torque: 88 N·m (900 kgf·cm, 65 ft·lbf)



3. CONNECT BRAKE LINE

- (a) Install the bracket to the caliper.
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)
- (b) Using SST, connect the brake line to the caliper.
SST 09751-36011
Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)

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

(See page [BR-9](#))

5. CHECK FOR FLUID LEAKAGE