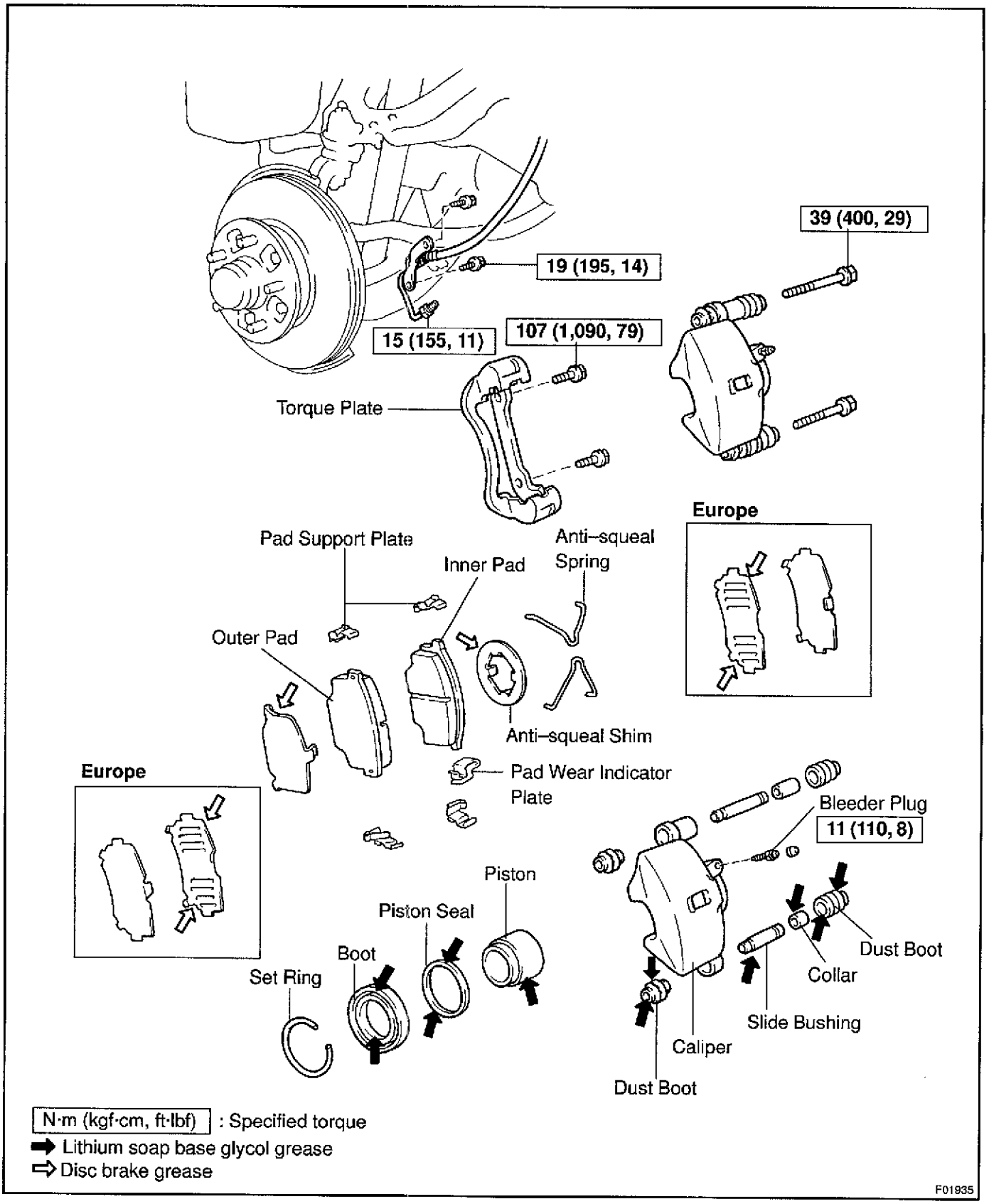
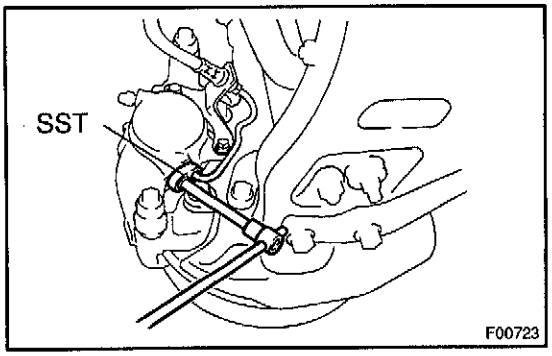
FRONT BRAKE CALIPER (2WD)

COMPONENTS

BR0F5-01



BR0F5-01



REMOVAL

1. REMOVE FRONT WHEEL

2. DISCONNECT BRAKE LINE

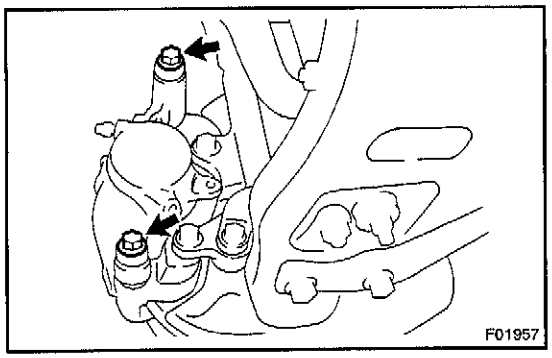
(a) Using SST, disconnect the brake line. Use a container to catch the brake fluid.

SST 09023–00100

Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)

(b) Remove the 2 bolts and bracket.

Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)



3. REMOVE CALIPER

Remove the 2 installation bolts and caliper.

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

4. REMOVE THESE PARTS:

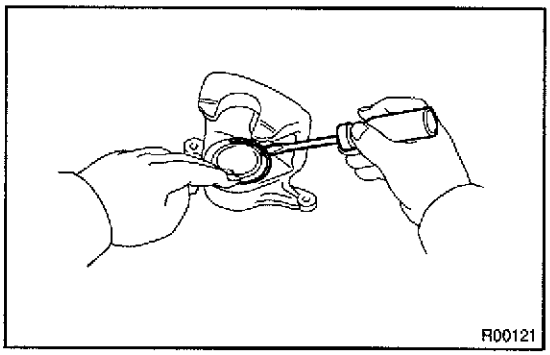
- 2 anti–squeal springs
- 4 anti–squeal shims (Europe)
- 2 anti–squeal shims (Others)
- 2 brake pads
- 4 pad support plates

BR0F7-01

DISASSEMBLY

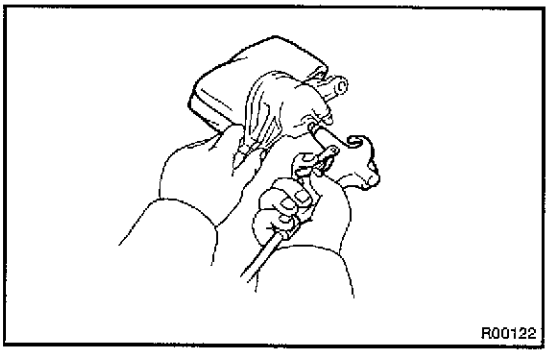
1. REMOVE THESE PARTS:

- 2 sliding bushings
- 4 dust boots



2. REMOVE SET RING AND CYLINDER BOOT

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



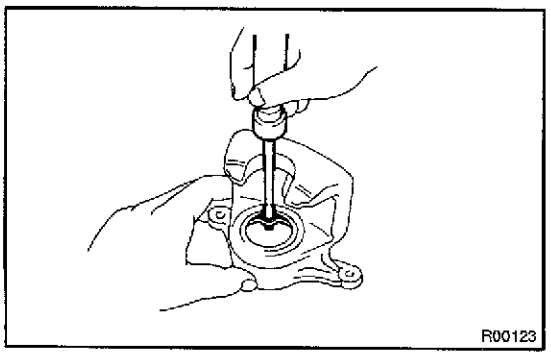
3. REMOVE PISTON

(a) Place a piece of cloth or equivalent, between the piston and the caliper.

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

NOTICE:

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

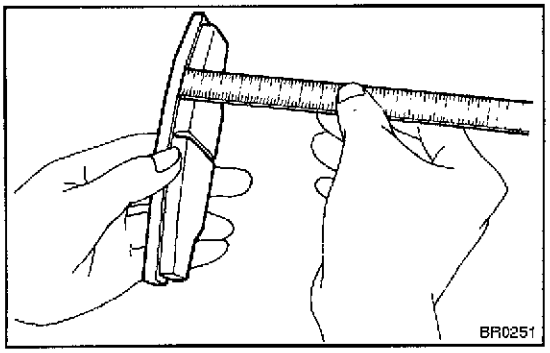


4. REMOVE PISTON SEAL

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

BR0F8-01

INSPECTION

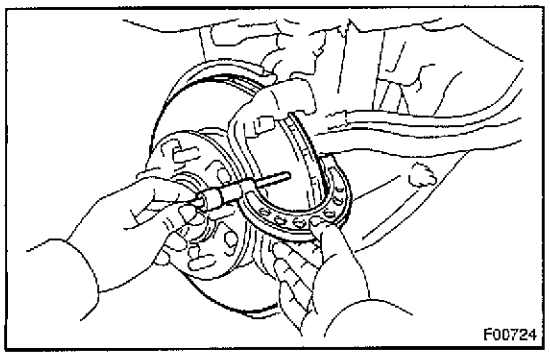


1. MEASURE PAD LINING THICKNESS

Using a ruler, measure the pad lining thickness.

Standard thickness:
Europe: 9.6 mm (0.378 in.)
Others: 9.5 mm (0.374 in.)
Minimum thickness: 1.0 mm (0.039 in.)

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

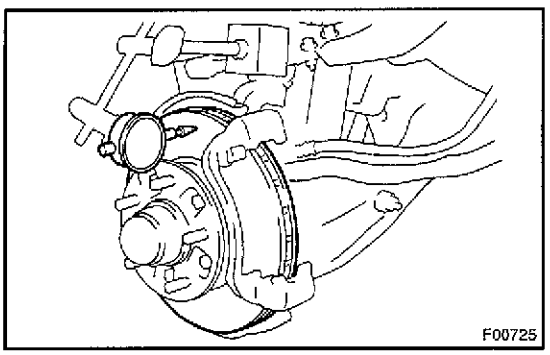


2. MEASURE DISC THICKNESS

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 disc's thickness 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

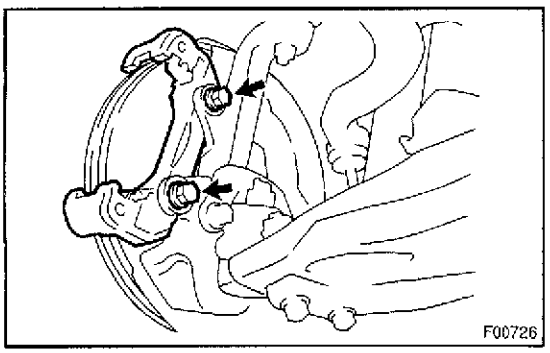
Using a dial indicator, measure disc runout at a position 10 mm (0.39 in.) from the outer edge of the disc.

Maximum disc runout: 0.07 mm (0.0028 in.)

If the runout is greater than the maximum, replace the disc or grind it on a "On–Car" brake lathe.

HINT:

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



4. IF NECESSARY, REPLACE DISC

(a) Remove the torque plate from the knuckle.
(b) Remove the axle hub (See page SA–18).
(c) Remove the disc from the axle hub.
(d) Install a new disc. Torque the bolts.
Torque: 64 N·m (650 kgf·cm, 47 ft·lbf)
(e) Install the axle hub and adjust the front bearing preload (See page SA–23).
(f) Install the torque plate onto the knuckle.
Torque: 108 N·m (1,100 kgf·cm, 80 ft·lbf)

BR0F9-01

REASSEMBLY

Reassembly is in the reverse order of disassembly (See page BR–39).

NOTICE:

Apply lithium soap base glycol grease to the parts indicated by arrows (See page BR–37).

BR0FA-01

INSTALLATION

Installation is in the reverse order of removal (See page BR–38).
AFTER INSTALLATION, FILL BRAKE RESERVOIR WITH BRAKE FLUID, BLEED BRAKE SYSTEM (See page BR–4) AND CHECK FOR LEAKS