

OVERHAUL

HINT:

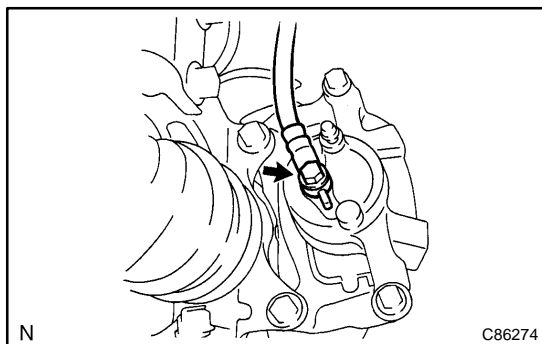
Overhaul the RH side using the same procedures as those for the LH side.

1. REMOVE FRONT WHEEL

2. DRAIN BRAKE FLUID

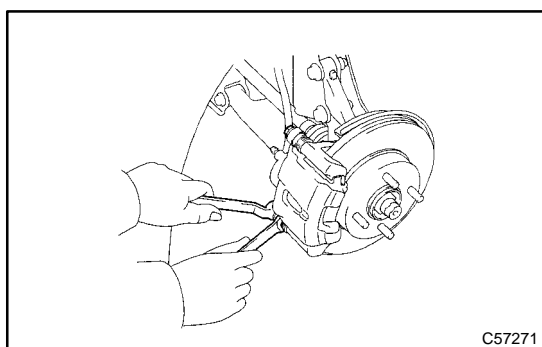
NOTICE:

Wash the brake fluid off immediately if it adheres to any painted surfaces.



3. REMOVE FRONT DISC BRAKE CYLINDER SUB-ASSY

- (a) Remove the union bolt and the gasket from the front disc brake cylinder sub-assy, then disconnect the flexible hose.



- (b) Hold the front disc brake cylinder slide pin, and remove the 2 bolts.

4. REMOVE DISC BRAKE PAD KIT FRONT (PAD ONLY)

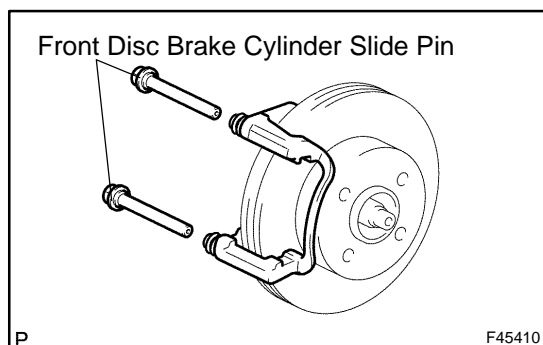
- (a) Remove the brake pad w/ anti squeal shims.

5. REMOVE ANTI SQUEAL SHIM KIT FRONT

- (a) Remove the anti squeal shim No.1 and the anti squeal No.2 from the each pad.

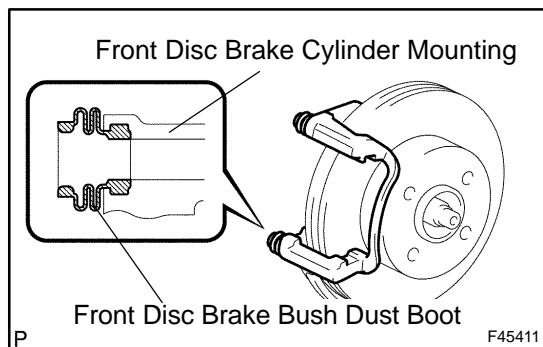
6. REMOVE FRONT DISC BRAKE PAD SUPPORT PLATE

- (a) Remove the 2 front disc brake pad support plates from the front disc brake cylinder mounting.

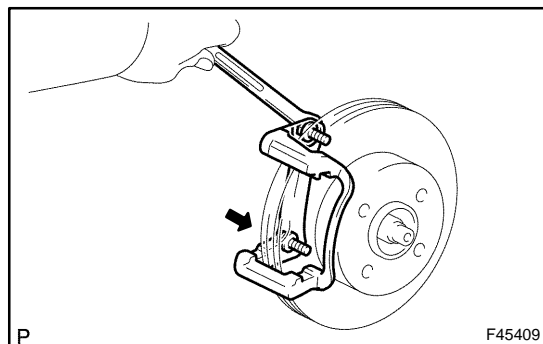


7. REMOVE FRONT DISC BRAKE CYLINDER SLIDE PIN

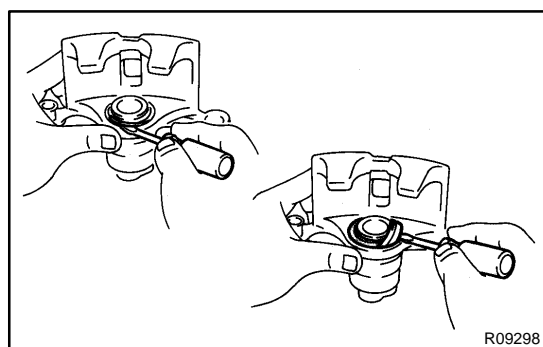
- (a) Remove the 2 front disc brake cylinder slide pins from the front disc brake cylinder mounting.

**8. REMOVE FRONT DISC BRAKE BUSH DUST BOOT**

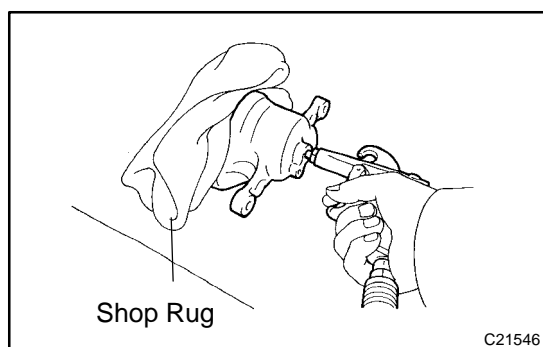
- (a) Remove the 2 front disc brake dust boots from the front disc brake cylinder mounting.

**9. REMOVE FRONT DISC BRAKE CYLINDER MOUNTING**

- (a) Remove the 2 bolts and the front disc brake cylinder mounting.

**10. REMOVE CYLINDER BOOT**

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

**11. REMOVE FRONT DISC BRAKE PISTON**

- (a) Place a shop rug between the front disc brake piston and the front disc brake cylinder.
- (b) Use compressed air to remove the front disc brake piston from the front disc brake cylinder sub-assy.

CAUTION:

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

NOTICE:

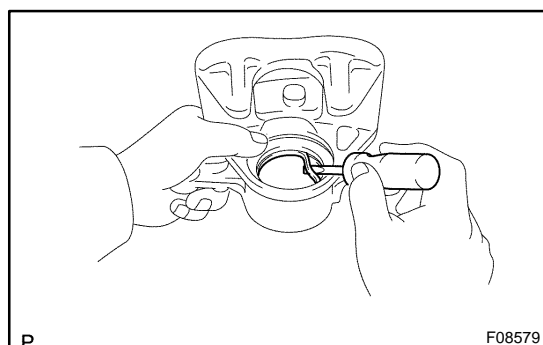
Be careful not to spatter the brake fluid.

12. REMOVE PISTON SEAL

- (a) Using a screwdriver, remove the piston seal from the front disc brake cylinder.

NOTICE:

Do not damage the inner cylinder and cylinder groove.

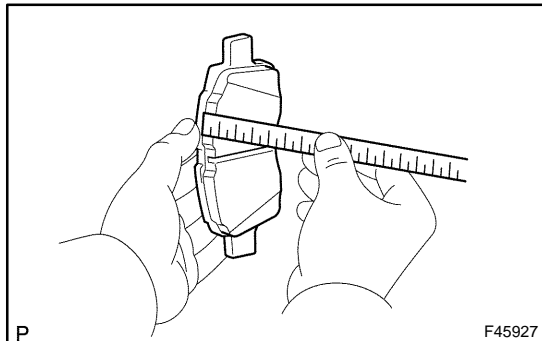


13. REMOVE FRONT DISC BRAKE BLEEDER PLUG

- (a) Remove the bleeder plug cap and the front disc brake bleeder plug from the front disc brake cylinder sub-assy.

14. INSPECT BRAKE CYLINDER AND PISTON

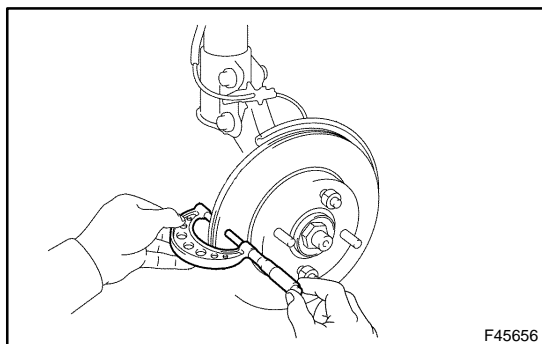
- (a) Check the cylinder bore and the front disc brake piston for rust or scoring.

**15. INSPECT PAD LINING THICKNESS**

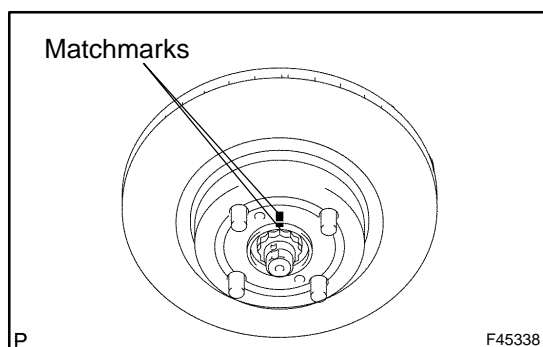
- (a) Using a ruler, measure the pad lining thickness.
Standard thickness: 11.0 mm (0.433 in.)
Minimum thickness: 1.0 mm (0.039 in.)

16. INSPECT FRONT DISC BRAKE PAD SUPPORT PLATE

- (a) Inspect the 2 front disc brake pad support plates.
 Make sure that they have sufficient rebound, no deformation, cracks or wear, and have had all rust, dirt and foreign matters cleaned off.

**17. INSPECT DISC THICKNESS**

- (a) Using a micrometer, measure the disc thickness.
Standard thickness: 22.0 mm (0.866 in.)
Minimum thickness: 20.0 mm (0.787 in.)

**18. REMOVE FRONT DISC**

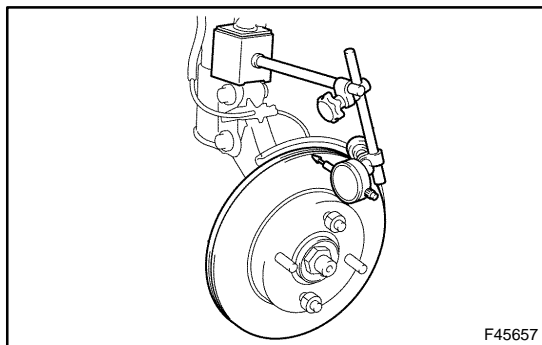
- (a) Place matchmarks on the disc and the axle hub.
 (b) Remove the disc.

19. INSTALL FRONT DISC

- (a) Aligning the matchmarks, install the front disc.

HINT:

When replacing the disc with a new one, select the installation position where the front disc has the minimum runout.



20. INSPECT DISC RUNOUT

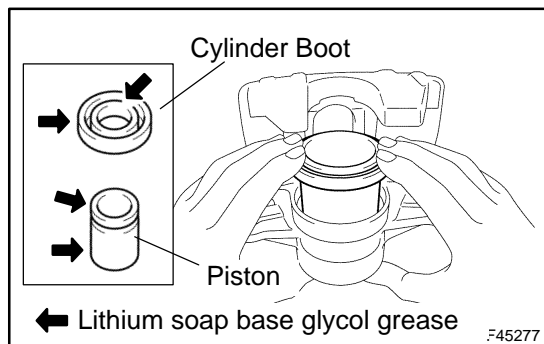
- (a) Temporarily fasten the disc with the hub nuts.
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)
- (b) Using a dial gauge, measure the disc runout at 10 mm (0.39 in.) away from the outer edge of the disc.
Maximum disc runout: 0.05 mm (0.0020 in.)
- (c) If the disc runout is maximum value or greater, check the bearing play in the axial direction and the axle hub runout (See page 30-2). If the bearing play and the axle hub runout are not abnormal, adjust the disc runout or grind it on a "On-car" brake lathe.

21. TEMPORARILY TIGHTEN FRONT DISC BRAKE BLEEDER PLUG

- (a) Temporarily install the front disc brake bleeder plug to the front disc brake cylinder.
- (b) Install the bleeder plug cap to the bleeder plug.

22. INSTALL PISTON SEAL

- (a) Apply the lithium soap base glycol grease to a new piston seal.
- (b) Install the piston seal on the front disc brake cylinder.

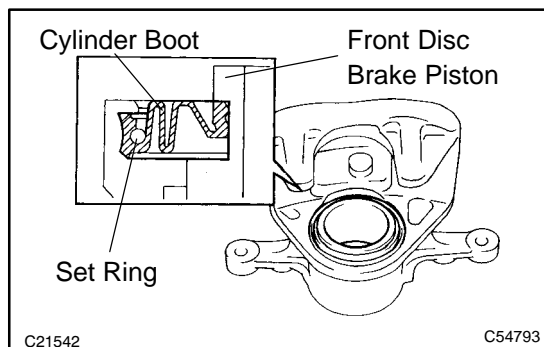


23. INSTALL FRONT DISC BRAKE PISTON

- (a) Apply lithium soap base glycol grease to the front disc brake piston and a new cylinder boot.
- (b) Install the cylinder boot to the front disc brake piston.
- (c) Install the piston to the front disc brake cylinder.

NOTICE:

Do not install the piston to the disc brake cylinder forcibly.



24. INSTALL CYLINDER BOOT

- (a) Install a new cylinder boot to the front disc brake cylinder sub-assy.

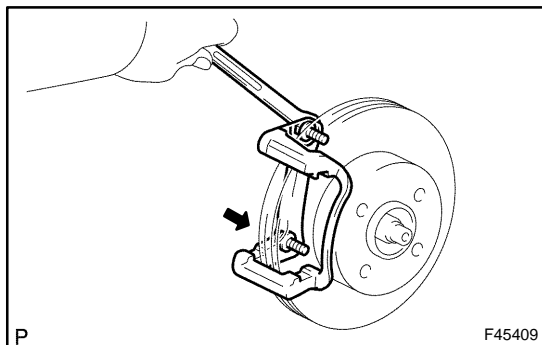
NOTICE:

Install the boot securely to the grooves of the cylinder and piston.

- (b) Using a screwdriver, install the set ring.

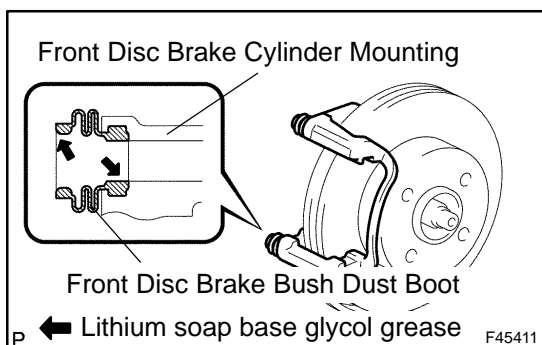
NOTICE:

Do not damage the cylinder boot.

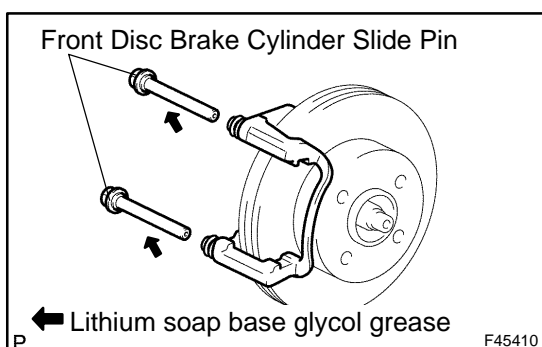
**25. INSTALL FRONT DISC BRAKE CYLINDER MOUNTING**

- (a) Install the front disc brake cylinder mounting with the 2 bolts.

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

**26. INSTALL FRONT DISC BRAKE BUSH DUST BOOT**

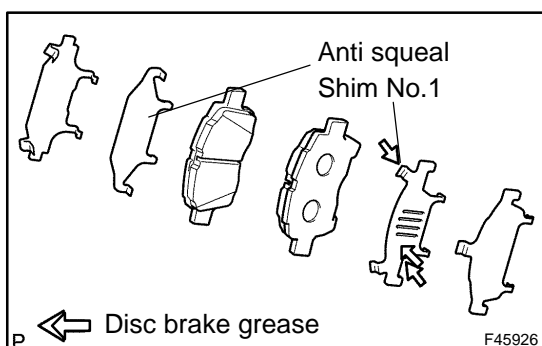
- (a) Apply lithium soap base glycol grease to the sealing surface of 2 new dust boots.
- (b) Install the 2 front disc brake bush dust boots to the front disc brake cylinder mounting.

**27. INSTALL FRONT DISC BRAKE CYLINDER SLIDE PIN**

- (a) Apply lithium soap base glycol grease to the sliding part and the sealing surface of the 2 front disc brake cylinder slide pins.
- (b) Install the 2 front disc brake cylinder slide pins on the front disc brake cylinder mounting.

28. INSTALL FRONT DISC BRAKE PAD SUPPORT PLATE

- (a) Install the 2 front disc brake pad support plates to the front disc brake cylinder mounting.

**29. INSTALL ANTI SQUEAL SHIM KIT FRONT**

- (a) Apply disc brake grease to both sides of each anti squeal shim No.1.
- (b) Install the anti squeal shims on each pad.

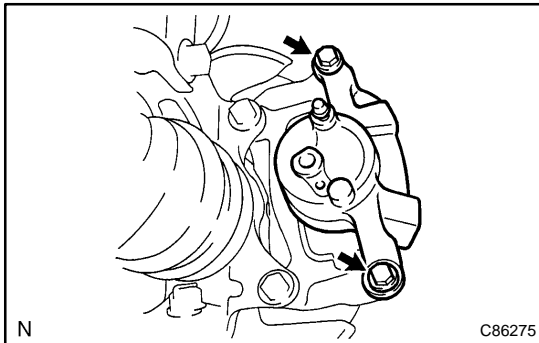
30. INSTALL DISC BRAKE PAD KIT FRONT (PAD ONLY)**NOTICE:**

If necessary, replace the anti squeal shim kit when replacing the brake pad.

- (a) Install the disc brake pad kit to the front disc brake cylinder mounting.

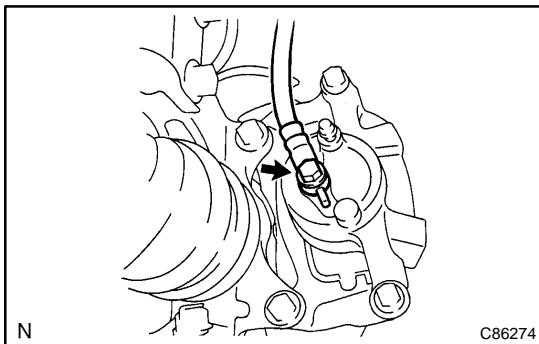
NOTICE:

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

**31. INSTALL FRONT DISC BRAKE CYLINDER SUB-ASSY**

- (a) Install the front disc brake cylinder sub-assy with the 2 bolts.

Torque: 34 N·m (347 kgf·cm, 25 ft·lbf)



- (b) Install a new gasket and the flexible hose with the union bolt.

Torque: 30 N·m (310 kgf·cm, 22 ft·lbf)

HINT:

Install the flexible hose lock securely in the lock hole in the disc brake cylinder sub-assy.

32. FILL RESERVOIR WITH BRAKE FLUID (See page 32-4)**33. BLEED MASTER CYLINDER (See page 32-4)**

SST 09023-00100

34. BLEED BRAKE LINE (See page 32-4)**35. CHECK FLUID LEVEL IN RESERVOIR (See page 32-4)****36. CHECK FOR BRAKE FLUID LEAKAGE****37. INSTALL FRONT WHEEL**

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