

OVERHAUL

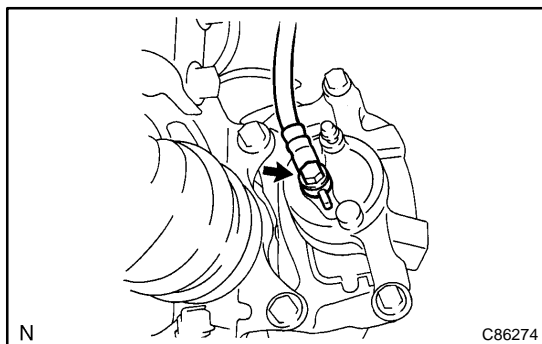
HINT:

Overhaul the RH side by the same procedure as the LH side.

1. REMOVE FRONT WHEEL
2. DRAIN BRAKE FLUID

NOTICE:

Wash the brake fluid off immediately if it comes into contact with any painted surface.

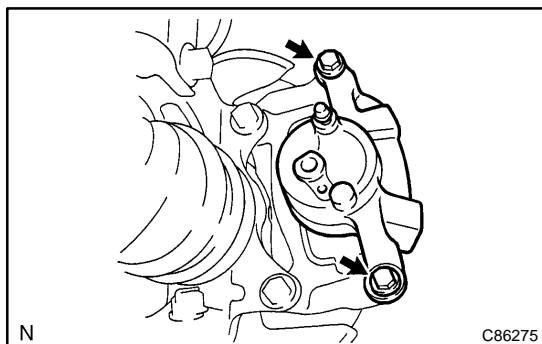


3. REMOVE FRONT DISC BRAKE CYLINDER SUB-ASSY

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

HINT:

Gasket has 2 types: 2-piece type and 1-piece type.



- (b) Hold the cylinder slide pin and remove the 2 bolts.

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

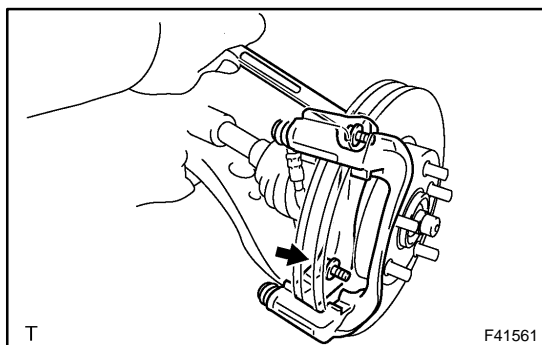
- (a) Remove the 2 brake pads with anti-squeal shims.
- (b) Remove the anti-squeal shim No.1 and anti-squeal shim No.2 from each pad.
- (c) Remove the pad wear indicator plates from each pad.

5. REMOVE FRONT DISC BRAKE PAD SUPPORT PLATE

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

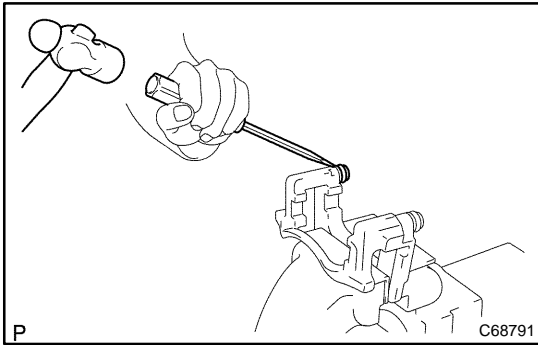
6. REMOVE FRONT DISC BRAKE CYLINDER SLIDE PIN

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

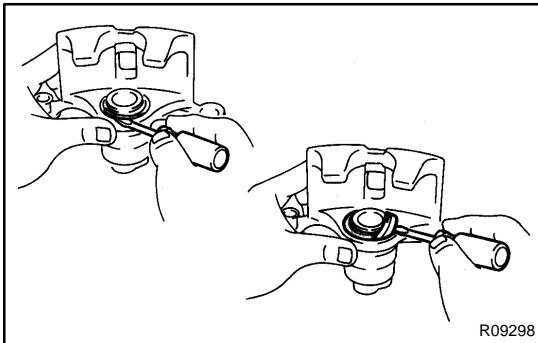


7. REMOVE FRONT DISC BRAKE CYLINDER MOUNTING LH

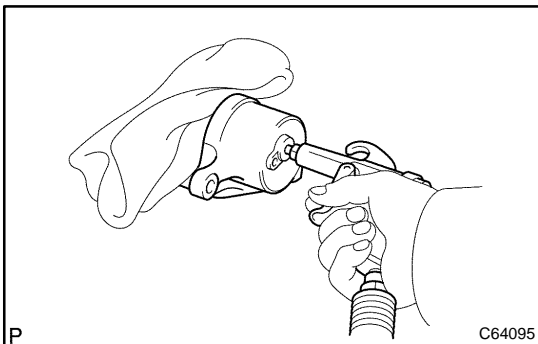
- (a) Remove the 2 bolts and disc brake cylinder mounting.



- 8. REMOVE FRONT DISC BRAKE BUSH DUST BOOT**
- Place front disc brake cylinder mounting in vise.
 - Using a screwdriver and hammer, remove the 2 bush dust boots from the disc brake cylinder mounting.



- 9. REMOVE CYLINDER BOOT**
- Using a screwdriver, remove the set ring and cylinder boot.



- 10. REMOVE FRONT DISC BRAKE PISTON**
- Place a piece of cloth or similar, between the piston and the disc brake cylinder.
 - Use compressed air to remove the piston from the disc brake cylinder.

CAUTION:

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

NOTICE:

Do not spatter the brake fluid.

11. REMOVE PISTON SEAL

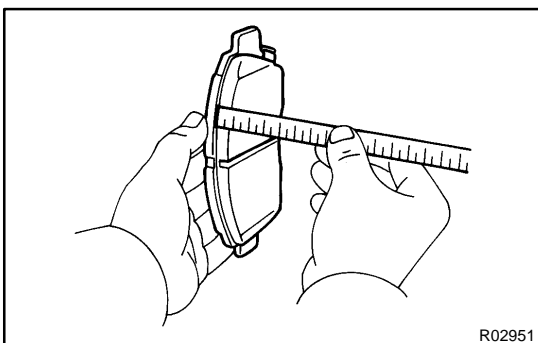
- Using a screwdriver, remove the piston seal from the disc brake cylinder.

12. REMOVE FRONT DISC BRAKE BLEEDER PLUG

- Remove the bleeder plug cap and bleeder plug from the disc brake cylinder.

13. INSPECT BRAKE CYLINDER AND PISTON

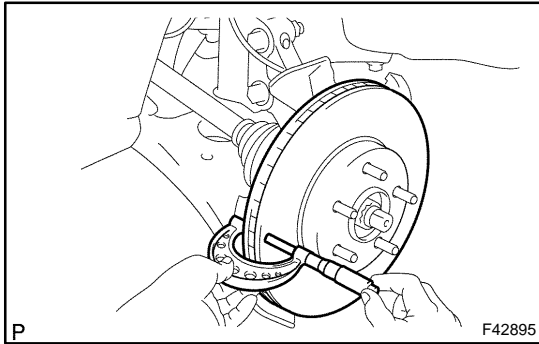
- Check the cylinder bore and piston for rust or scoring.

**14. INSPECT PAD LINING THICKNESS**

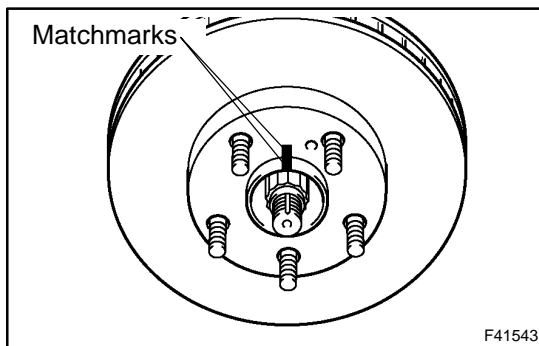
- Using a ruler, measure the pad lining thickness.
Standard thickness: 11.0 mm (0.433 in.)
Minimum thickness: 1.0 mm (0.039 in.)

15. INSPECT FRONT DISC BRAKE PAD SUPPORT PLATE

- (a) Make sure that they have sufficient rebound, no deformation, cracks or wear, and have had all rust and dirt cleaned off.

**16. INSPECT DISC THICKNESS**

- (a) Using a micrometer, measure the disc thickness.
Standard thickness: 25.0 mm (0.984 in.)
Minimum thickness: 23.0 mm (0.906 in.)

**17. REMOVE FRONT DISC**

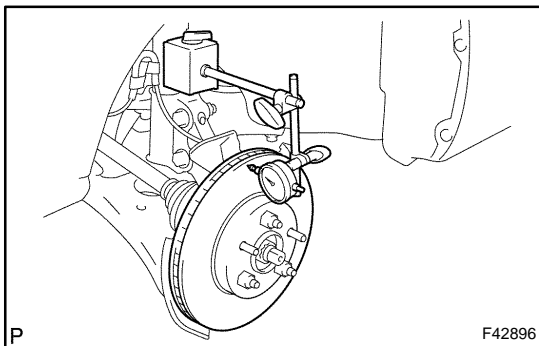
- (a) Make matchmarks on the front disc and the axle hub.
 (b) Remove the front disc.

18. INSTALL FRONT DISC

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

HINT:

Select the installation position where the disc has the minimum runout.

**19. INSPECT DISC RUNOUT**

- (a) Temporarily fasten the disc with hub nuts.
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)
 (b) Using a dial indicator, measure the disc runout 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 the maximum value or greater, check the bearing play in the axial direction and check the axle hub runout (See page 30-3). If the bearing play and axle hub runout are normal, adjust the disc runout or grind it on a "On-car" brake lathe.

20. TEMPORARY TIGHTEN FRONT DISC BRAKE BLEEDER PLUG

- (a) Temporarily tighten the bleeder plug, and install bleeder plug cap to the disc brake cylinder.

21. INSTALL PISTON SEAL

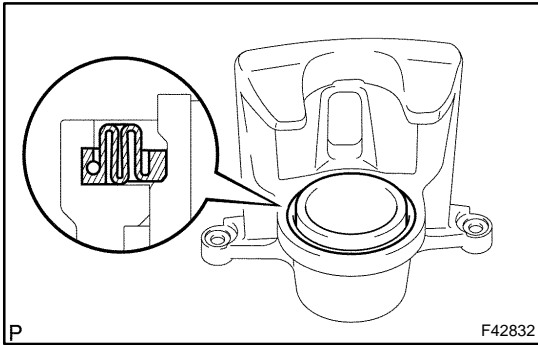
- (a) Apply the lithium soap base glycol grease on a new piston seal.
 (b) Install the piston seal to the disc brake cylinder.

22. INSTALL FRONT DISC BRAKE PISTON

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

NOTICE:

Do not screw the piston forcedly in the disc brake cylinder.

**23. INSTALL CYLINDER BOOT**

- (a) Apply the lithium soap base glycol grease to a new cylinder boot. Install the cylinder boot to the disc brake cylinder.

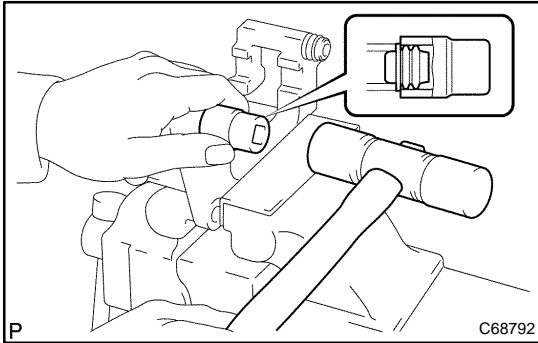
HINT:

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.

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

- (a) Place front disc brake cylinder mounting in vise.
- (b) Apply the lithium soap base glycol grease to seal surface of 2 new bush dust boots.
- (c) Using a socket wrench (19 mm) and hammer, drive the 2 bush dust boots to the disc brake cylinder mounting.

25. INSTALL FRONT DISC BRAKE CYLINDER MOUNTING LH

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

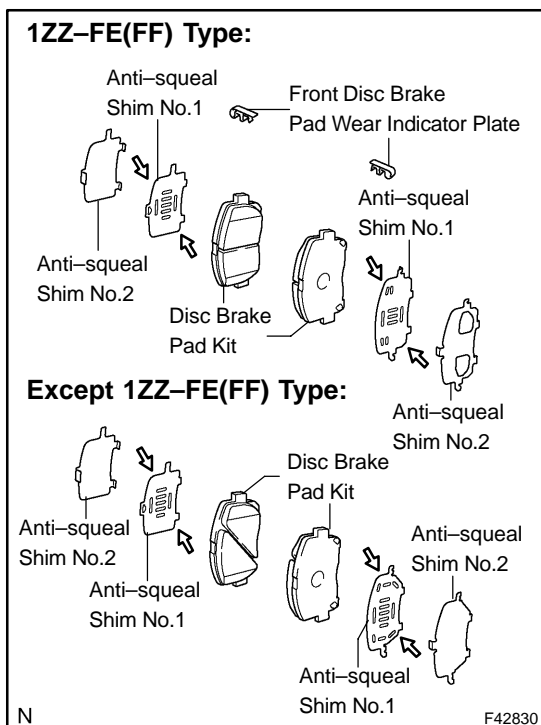
Torque: 106.8 N·m (1,089 kgf·cm, 79 ft·lbf)

26. INSTALL FRONT DISC BRAKE CYLINDER SLIDE PIN

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

27. INSTALL FRONT DISC BRAKE PAD SUPPORT PLATE

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

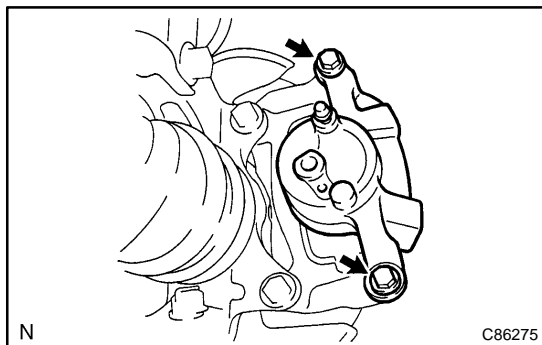
**28. INSTALL DISC BRAKE PAD KIT FRONT (PAD ONLY)****NOTICE:**

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

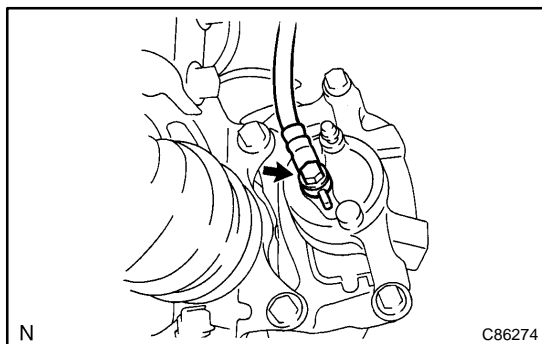
- (a) Apply disc brake grease to each anti-squeal shim No.1.
- (b) Install anti-squeal shims on each pad.
- (c) 1ZZ-FE(FF) type:
Install the pad wear indicator plate facing upward, and install each pad.

NOTICE:

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

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

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

Torque: 34.3 N·m (350 kgf·cm, 25 ft·lbf)

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

Torque: 29 N·m (296 kgf·cm, 21 ft·lbf)**HINT:**

- Gasket has 2 types: 2-piece type and 1-piece type.
- Install the flexible hose lock securely in the lock hole in the disc brake cylinder.

30. FILL RESERVOIR WITH BRAKE FLUID**31. BLEED MASTER CYLINDER (See page 32-6)**

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32. BLEED BRAKE LINE (See page 32-6)**33. CHECK FLUID LEVEL IN RESERVOIR****34. CHECK BRAKE FLUID LEAKAGE****35. INSTALL FRONT WHEEL****Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)**