

OVERHAUL

HINT:

- COMPONENTS: [See page 32-28](#)
- Overhaul the RH side by the same procedures with LH side.

1. REMOVE FRONT WHEEL

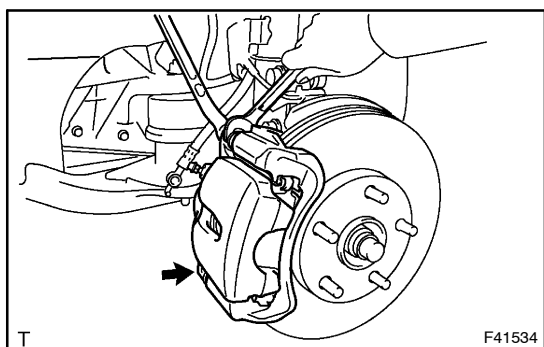
2. DRAIN BRAKE FLUID

NOTICE:

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

3. DISCONNECT FRONT FLEXIBLE HOSE

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

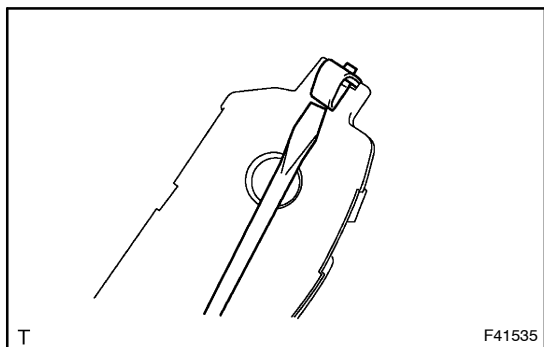


4. REMOVE DISC BRAKE CYLINDER ASSY FR LH

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

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

- (a) Remove the 2 brake pads with anti-squeal shim.



6. REMOVE ANTI SQUEAL SHIM KIT FRONT

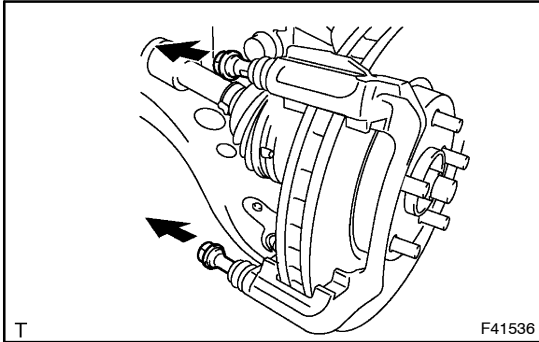
- (a) Remove the 2 anti-squeal shims from each of 2 brake pads.
- (b) Using a screwdriver, remove the wear indicator from each of 2 brake pads.

7. REMOVE FRONT DISC BRAKE PAD SUPPORT PLATE

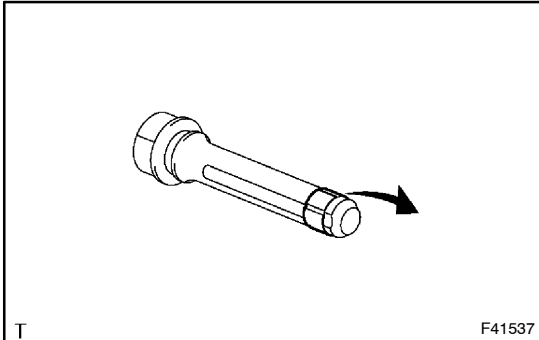
- (a) Remove the upper side front disc brake pad support plate.

8. REMOVE FRONT DISC BRAKE PAD SUPPORT PLATE

- (a) Remove the bottom side front disc brake pad support plate.

**9. REMOVE FRONT DISC BRAKE CYLINDER SLIDE PIN**

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

**10. REMOVE FRONT DISC BRAKE CYLINDER SLIDE BUSH**

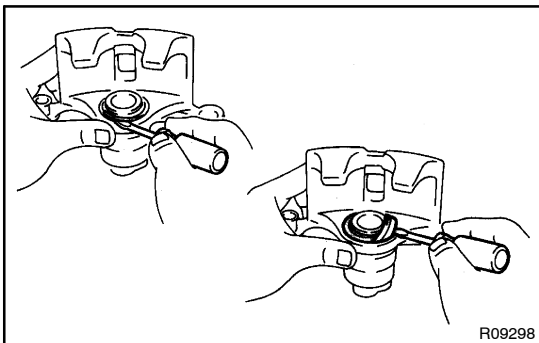
- (a) Remove the cylinder slide bush from the cylinder slide pin.

11. REMOVE FRONT DISC BRAKE BUSH DUST BOOT

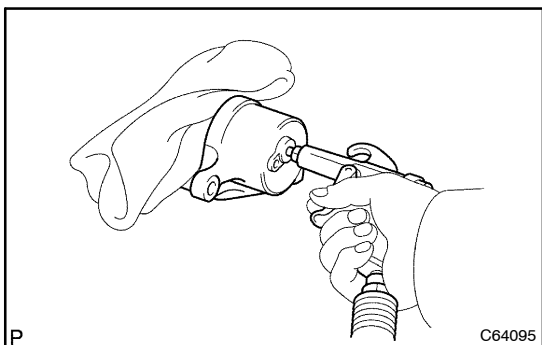
- (a) Remove the 2 bush dust boots from the disc brake cylinder mounting.

12. REMOVE FRONT DISC BRAKE CYLINDER MOUNTING LH

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

**13. REMOVE CYLINDER BOOT**

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



14. REMOVE FRONT DISC BRAKE PISTON

- (a) Place a piece of cloth or similar, between the piston and the disc brake cylinder.
- (b) 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.

15. REMOVE PISTON SEAL

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

NOTICE:

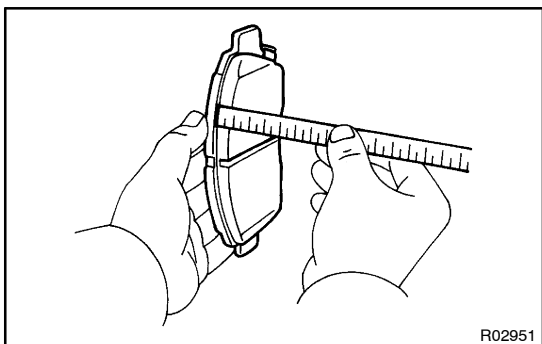
Do not damage the inner cylinder and the cylinder groove.

16. REMOVE FRONT DISC BRAKE BLEEDER PLUG CAP

17. REMOVE FRONT DISC BRAKE BLEEDER PLUG

18. INSPECT BRAKE CYLINDER AND PISTON

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



19. INSPECT PAD LINING THICKNESS

- (a) Using a ruler, measure the pad lining thickness.

Standard thickness: 12.0 mm (0.472 in.)

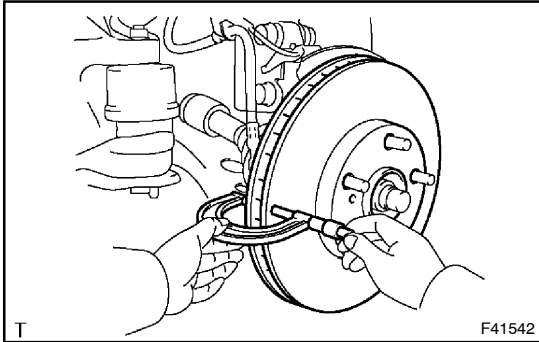
Minimum thickness: 1.0 mm (0.039 in.)

20. 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.

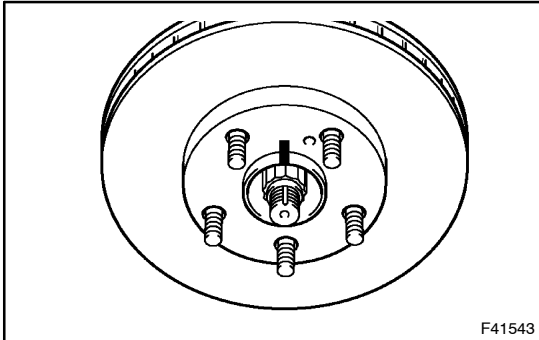
21. INSPECT FRONT DISC BRAKE PAD SUPPORT PLATE

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



22. INSPECT DISC THICKNESS

- (a) Using a micrometer, measure the disc thickness.
Standard thickness: 28.0 mm (1.102 in.)
Minimum thickness: 26.0 mm (1.024 in.)



23. REMOVE FRONT DISC

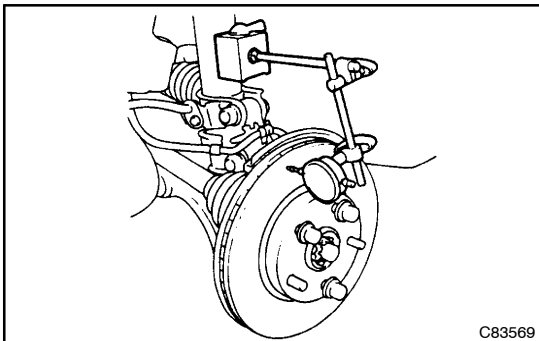
- (a) Put matchmarks on the disc and the axle hub.
 (b) Remove the disc.

24. INSTALL FRONT DISC

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

HINT:

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



25. 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's runout is maximum value or greater, check the bearing play in the axial direction and check the axle hub runout (See page 30-2). If the bearing play and axle hub runout are not abnormal, adjust the disc runout or grind it on a "On-car" brake lathe.

26. TEMPORARY TIGHTEN FRONT DISC BRAKE BLEEDER PLUG

- (a) Temporarily tighten the bleeder plug to the disc brake cylinder.

27. INSTALL FRONT DISC BRAKE BLEEDER PLUG CAP

28. INSTALL PISTON SEAL

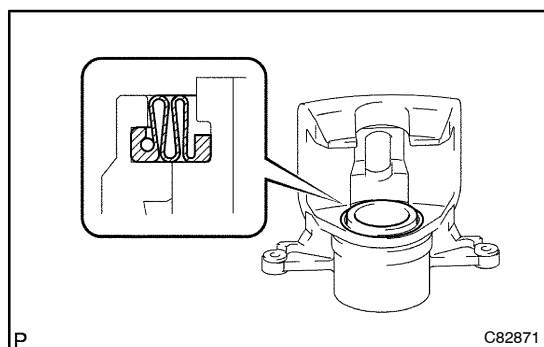
- (a) Apply the lithium soap base glycol grease on a new piston seal.
 (b) Install the piston seal to the disc brake cylinder.

29. 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.



30. INSTALL CYLINDER BOOT

- (a) Apply the lithium soap base glycol grease on 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.

31. INSTALL FRONT DISC BRAKE CYLINDER MOUNTING LH

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

Torque: 107 N·m (1,090 kgf·cm, 79 ft·lbf)

32. INSTALL FRONT DISC BRAKE BUSH DUST BOOT

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

33. INSTALL FRONT DISC BRAKE CYLINDER SLIDE BUSH

- (a) Apply the lithium soap base glycol grease to a new cylinder slide bush.
- (b) Install the cylinder slide bush to the cylinder slide pin.

34. 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.

HINT:

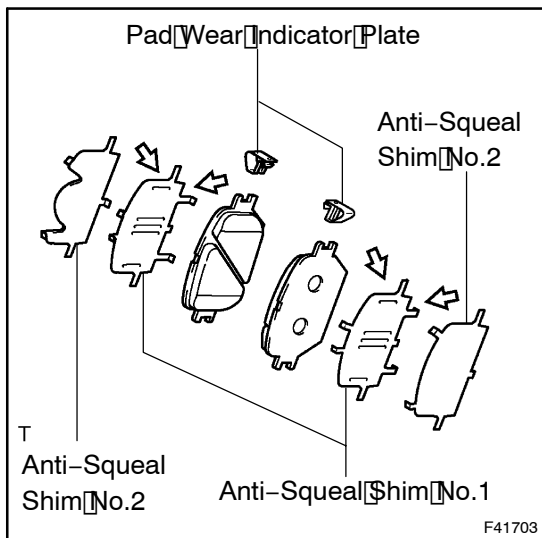
Place with the bush side facing down.

35. INSTALL FRONT DISC BRAKE PAD SUPPORT PLATE

- (a) Install the upper side front disc brake pad support plate.

36. INSTALL FRONT DISC BRAKE PAD SUPPORT PLATE

- (a) Install the bottom side front disc brake pad support plate.



37. INSTALL ANTI-SQUEAL SHIM KIT FRONT

NOTICE:

- When replacing worn pads, the anti-squeal shims must be replaced together with the pads.
 - Install the shims and pad wear indicator plates correctly of which positions and directions.
- (a) Apply disc brake grease to inside of each anti-squeal shim No. 1.
 - (b) Install anti-squeal shim No. 1 and No. 2 on each pad.
 - (c) Install the pad wear indicator plate to the 2 pads.

38. INSTALL DISC BRAKE PAD KIT FRONT (PAD ONLY)

- (a) Install the 2 pads with the pad wear indicator plate facing upward.

NOTICE:

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

39. INSTALL DISC BRAKE CYLINDER ASSY FR L H

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

Torque: 34 N·m (350 kgf·cm, 25 ft·lbf)

40. CONNECT FRONT FLEXIBLE HOSE

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

Torque: 29.4 N·m (300 kgf·cm, 22 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.

41. FILL RESERVOIR WITH BRAKE FLUID

42. BLEED MASTER CYLINDER (See page 32-4)

SST 09023-00100

43. BLEED BRAKE LINE (See page 32-4)

44. CHECK FLUID LEVEL IN RESERVOIR

45. CHECK BRAKE FLUID LEAKAGE

46. INSTALL FRONT WHEEL

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