320GC–03

OVERHAUL

HINT:

- Use the same procedures for the RH side and LH side.
- If work that does not involve brake fluid bleeding, such as disc brake pad replacement, is started 2 minutes or more after the power switch is turned off, brake control (ECB) prohibition is not necessary.

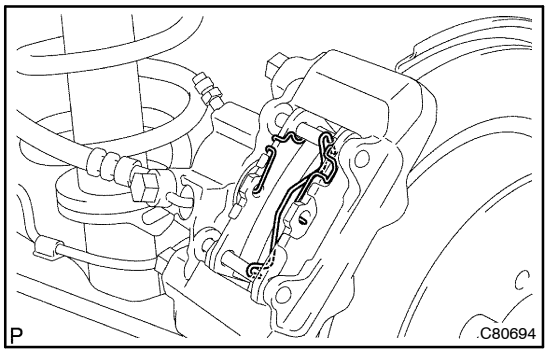
1. REMOVE REAR WHEEL

2. BRAKE CONTROL (ECB) OFF (SEE PAGE 32–29)

3. DRAIN BRAKE FLUID

NOTICE:

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

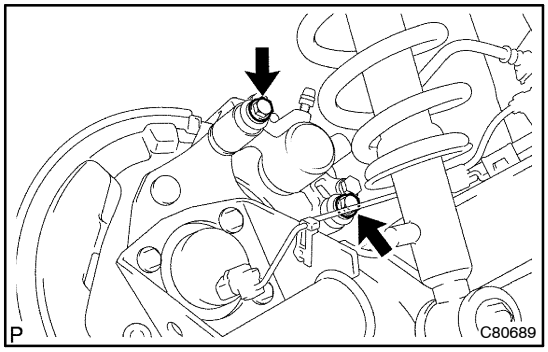


4. REMOVE DISC BRAKE PAD KIT REAR (PAD ONLY)

(a) Remove the clip, the anti–rattle spring No.1 and No.2

(b) Remove the 2 pad guide pins and the 2 disc brake pads with anti–squeal shim.

(c) Remove the 2 anti–squeal shims from each pad.



5. REMOVE DISC BRAKE CYLINDER ASSY REAR LH

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

HINT:

Both 1–piece and 2–piece type gaskets exist.

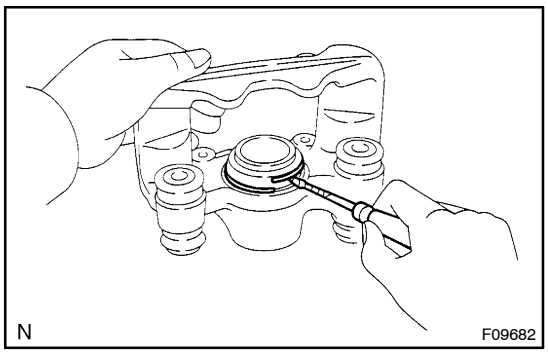
(b) Remove the 2 bolts and disc brake cylinder assy rear LH.

6. REMOVE REAR DISC BRAKE CYLINDER MOUNTING COLLAR

(a) Remove the 2 collars from the disc brake cylinder assy rear LH.

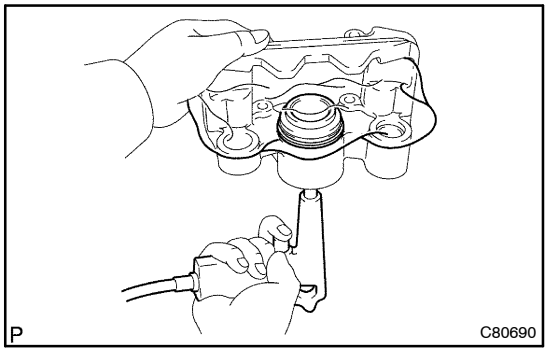
7. REMOVE REAR DISC BRAKE BUSH DUST BOOT

(a) Remove the 3 bush dust boots.



8. REMOVE CYLINDER BOOT

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



9. REMOVE REAR DISC BRAKE PISTON

(a) Place a piece of shop rag or similar, between the piston and the disc brake cylinder.

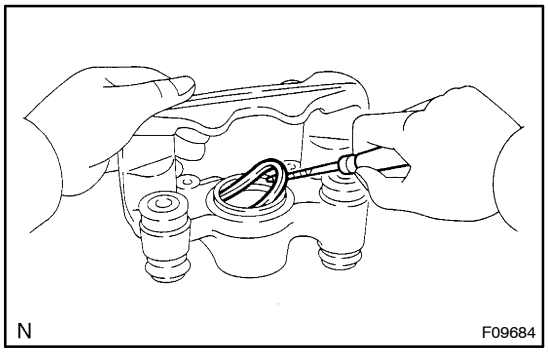
(b) Use compressed air to remove the piston from the disc brake cylinder.

CAUTION:

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

NOTICE:

Do not spatter the brake fluid.



10. REMOVE PISTON SEAL

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

NOTICE:

Do not damage the inner cylinder and cylinder groove.

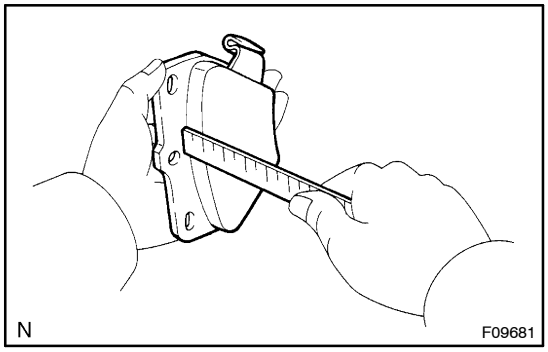
11. REMOVE REAR DISC BRAKE BLEEDER PLUG

(a) Remove the bleeder plug cap and the bleeder plug from the disc brake cylinder.

12. INSPECT BRAKE CYLINDER AND PISTON

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

If necessary, replace the brake cylinder and piston.



13. INSPECT PAD LINING THICKNESS

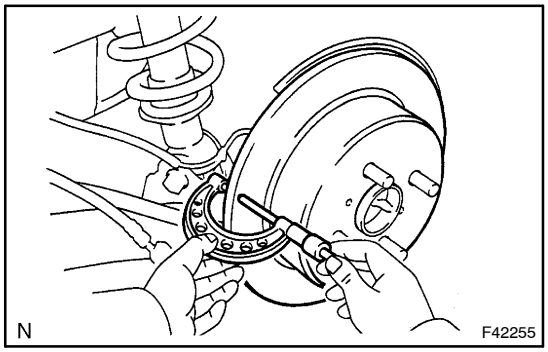
(a) Using a ruler, measure the pad lining thickness.

Standard thickness: 10.0 mm (0.394 in.)

Minimum thickness: 1.0 mm (0.039 in.)

HINT:

If the pad lining thickness is equal to the minimum thickness or less, replace the brake pad.



14. INSPECT DISC THICKNESS

(a) Using a micrometer, measure the disc thickness.

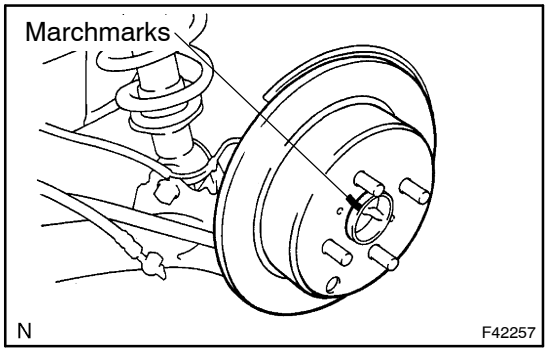
Standard thickness: 9.0 mm (0.354 in.)

Minimum thickness: 7.5 mm (0.295 in.)

HINT:

If the disc thickness is less than the minimum, replace the disc.

15. REMOVE PARKING BRAKE SHOE ADJUSTING HOLE PLUG



16. REMOVE REAR DISC

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

(b) Remove the disc.

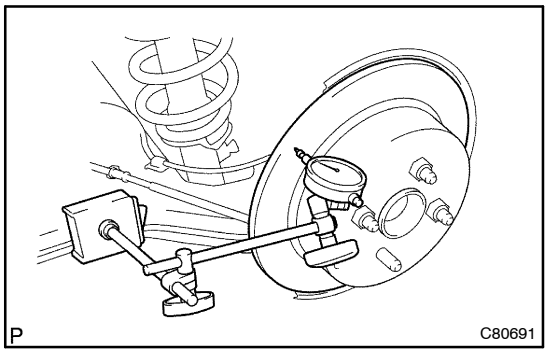
17. INSTALL REAR DISC

(a) Aligning the matchmarks, install the disc.

HINT:

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

18. INSTALL PARKING BRAKE SHOE ADJUSTING HOLE PLUG



19. INSPECT DISC RUNOUT

(a) Check the looseness of the front wheel bearing and runout in the axle hub before inspecting the disc runout (see page 30–2).

(b) Hold the front disc with the hub nuts.
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

(c) Holding a dial indicator 10 mm away from the outer edge of the front disc, measure the disc runout.
Maximum disc runout: 0.15 mm (0.0059 in.)

NOTICE:

If the runout exceeds the maximum value, change the installation positions of the disc and axle so that the runout will become minimal. If the runout exceeds the maximum even when the installation positions are changed or if disc thickness does not exceed the limit, shave the disc. If disc thickness exceeds the limit, replace the disc.

20. TEMPORARILY TIGHTEN REAR DISC BRAKE BLEEDER PLUG

(a) Temporarily install the rear disc brake bleeder plug to the disc brake cylinder assy rear LH.

(b) Temporarily install the bleeder plug cap to the bleeder plug.

21. INSTALL PISTON SEAL

(a) Apply lithium soap base glycol grease to a new piston seal.

(b) Install the piston seal to the disc brake cylinder assy rear LH.

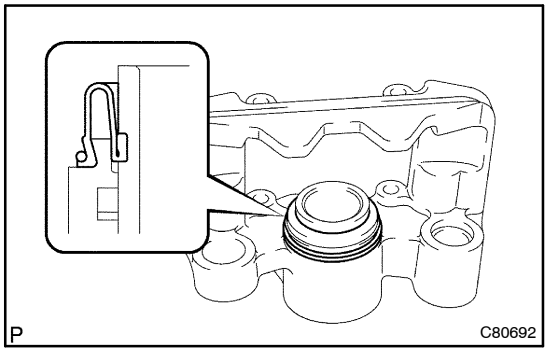
22. INSTALL REAR DISC BRAKE PISTON

(a) Apply lithium soap base glycol grease to the rear disc brake piston.

(b) Install the piston to the disc brake cylinder assy rear LH.

NOTICE:

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



23. INSTALL CYLINDER BOOT

(a) Apply lithium soap base glycol grease to a new cylinder boot.

(b) Install the cylinder boot to the disc brake cylinder.

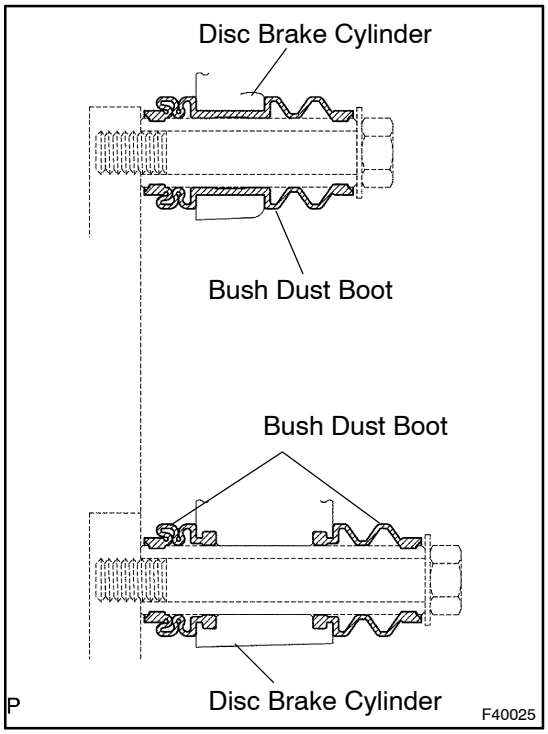
HINT:

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

(c) Using a screwdriver, install the set ring.

NOTICE:

Do not damage the cylinder boot.



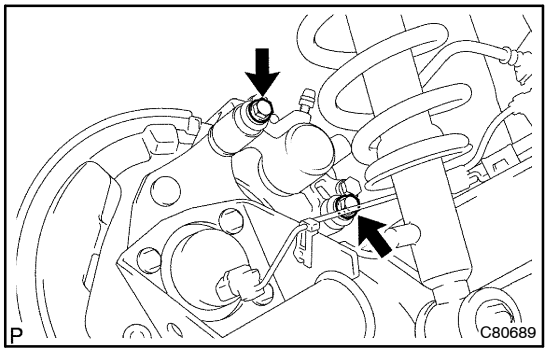
24. INSTALL REAR DISC BRAKE BUSH DUST BOOT

(a) Apply lithium soap base glycol grease to the seal surface of 3 new bush dust boots.

(b) Install the 3 bush dust boots to the disc brake cylinder.

25. INSTALL REAR DISC BRAKE CYLINDER MOUNTING COLLAR

(a) Install the 2 collars to the disc brake cylinder assy rear LH.



26. INSTALL DISC BRAKE CYLINDER ASSY REAR LH

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

Torque: 47 N·m (475 kgf·cm, 34 ft·lbf)

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

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

HINT:

- Both 1–piece and 2–piece type gaskets exist.
- Install the flexible hose lock securely in the lock hole in the disc brake cylinder.

27. INSTALL DISC BRAKE PAD KIT REAR (PAD ONLY)

NOTICE:

When replacing worn pads, the anti–squeal shims must be replaced together with the pads.

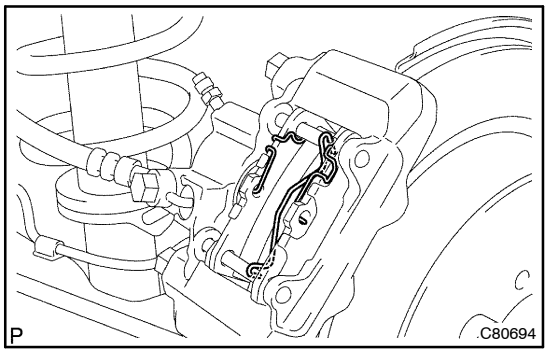
(a) Apply disc brake grease to the inside of the anti–squeal shims and install them to each of the 2 brake pads.

(b) Install the inner pad with the pad wear indicator plate facing upward, and install the outer pad.

NOTICE:

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

(c) Install the 2 pad guide pins.



(d) Install the anti–rattle springs No.1, No.2 and the clip.

28. FILL RESERVOIR WITH BRAKE FLUID (SEE PAGE 32–4)

29. BLEED FRONT AND REAR BRAKE SYSTEMS (SEE PAGE 32–4)

30. CHECK BRAKE FLUID LEAKAGE

31. CHECK FLUID LEVEL IN RESERVOIR

32. INSTALL REAR WHEEL

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

33. CHECK AND CLEAR DTC (SEE PAGE 05–738)