

OVERHAUL

HINT:

- COMPONENTS: See page [32-42](#)
- Overhaul the RH side by the same procedures with LH side.
- Two types of brake pad exist; one is with slit and the other without slit.

1. REMOVE REAR WHEEL

2. DRAIN BRAKE FLUID

NOTICE:

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

3. DISCONNECT REAR LH 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.

HINT:

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

4. REMOVE REAR DISC BRAKE CYLINDER SLIDE PIN

- (a) TMC made:
Remove the cylinder slide pin.
- (b) TMMK made:
Remove the cylinder slide pin and cylinder slide bush.

5. REMOVE REAR DISC BRAKE CYLINDER ASSY LH

- (a) TMC made:
Lift up the disc brake cylinder and remove the disc brake cylinder.
- (b) TMMK made:
Remove the cylinder slide pin and disc brake cylinder.

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

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

7. REMOVE REAR DISC BRAKE ANTI SQUEAL SHIM KIT

- (a) Remove the 2 anti-squeal shims and pad wear indicator from each of 2 brake pads.
- (b) TMC made:
Remove the 2 pad wear indicator plates from each of 2 brake pads.
- (c) TMMK made:
Remove the pad wear indicator plate from inner pad.

8. REMOVE REAR DISC BRAKE PAD SUPPORT PLATE

- (a) Remove the rear disc brake pad support plate No.1.

9. REMOVE REAR DISC BRAKE PAD SUPPORT PLATE

- (a) Remove the rear disc brake pad support plate No.2.

10. REMOVE REAR DISC BRAKE BUSH DUST BOOT

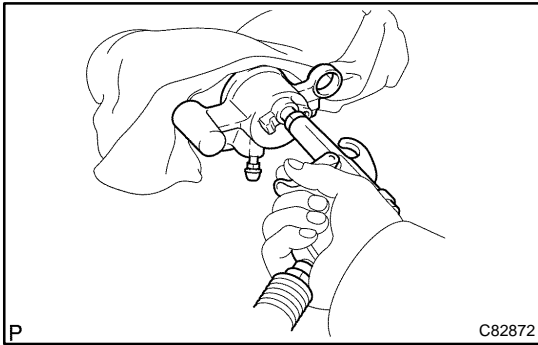
- (a) TMC made:
Remove the rear disc brake bush dust boot.
- (b) TMMK made:
Remove the 2 rear disc brake bush dust boots.

11. REMOVE REAR DISC BRAKE CYLINDER MOUNTING LH

- (a) TMC made:
Using a hexagon wrench (φ8 mm), remove the cylinder slide pin.
- (b) Remove the 2 bolts and cylinder mounting LH.

12. REMOVE CYLINDER BOOT

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

**13. REMOVE REAR 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.

14. REMOVE PISTON SEAL

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

NOTICE:

Do not damage the inner cylinder and the cylinder groove.

15. REMOVE REAR DISC BRAKE BLEEDER PLUG CAP**16. REMOVE REAR DISC BRAKE BLEEDER PLUG****17. INSPECT BRAKE CYLINDER AND PISTON**

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

18. INSPECT PAD LINING THICKNESS

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

Standard thickness: 10.0 mm (0.394 in.)

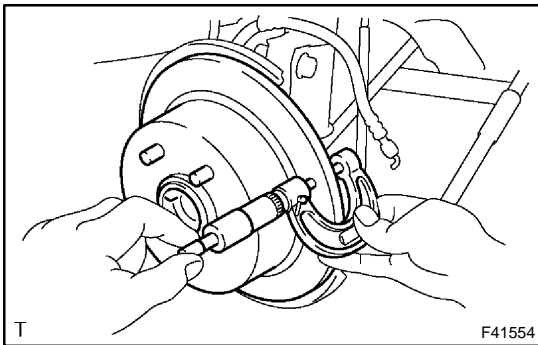
Minimum thickness: 1.0 mm (0.039 in.)

19. INSPECT REAR 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.

20. INSPECT REAR 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 and cleaned off.

**21. INSPECT DISC THICKNESS**

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

Standard thickness: 12.0 mm (0.472 in.)

Minimum thickness: 10.5 mm (0.413 in.)

22. REMOVE PARKING BRAKE SHOE ADJUSTING HOLE PLUG**23. REMOVE REAR DISC**

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

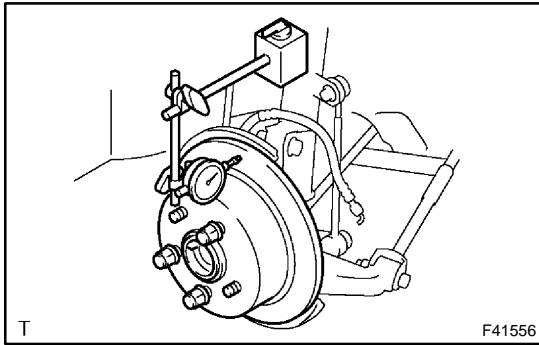
24. INSTALL REAR DISC

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

HINT:

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

25. INSTALL PARKING BRAKE SHOE ADJUSTING HOLE PLUG

**26. INSPECT DISC RUNOUT**

- (a) Temporarily fasten the disc with hub nuts.
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)
- (b) Using dial indicator, measure the disc runout 10 mm (0.39 in.) away from the outer edge of the disc.
Maximum disc runout: 0.15 mm (0.0059 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.

27. ADJUST PARKING BRAKE SHOE CLEARANCE (See page 33-19)**28. TEMPORARILY TIGHTEN REAR DISC BRAKE BLEEDER PLUG**

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

29. INSTALL REAR DISC BRAKE BLEEDER PLUG CAP**30. 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.

31. INSTALL REAR 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 forcibly in the disc brake cylinder.

32. INSTALL CYLINDER BOOT

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

HINT:

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

- (c) Using a screwdriver, install a new set ring.

NOTICE:

Do not damage the cylinder boot.

33. INSTALL REAR DISC BRAKE CYLINDER MOUNTING LH

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

Torque:

TMC made: 61.8 N·m (630 kgf·cm, 46 ft·lbf)

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

34. INSTALL REAR DISC BRAKE CYLINDER SLIDE PIN

- (a) TMC made:

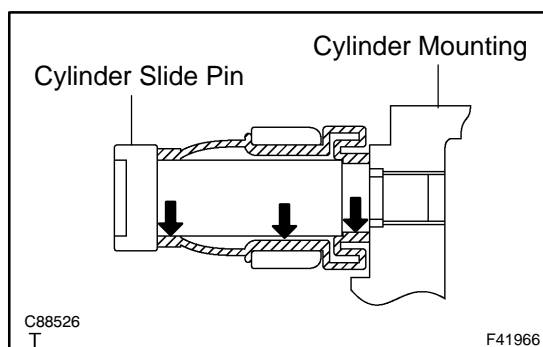
Using a hexagon wrench (8 mm), install the cylinder slide pin.

Torque: 39.2 N·m (400 kgf·cm, 29 ft·lbf)

- (b) TMMK made:

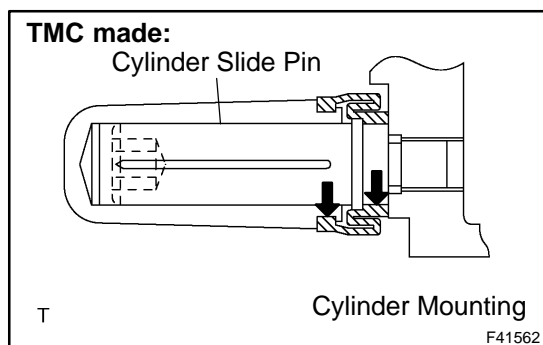
Install the cylinder slide pin with the cylinder slide bush.

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)



35. INSTALL REAR DISC BRAKE CYLINDER SLIDE BUSH (TMC MADE)

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



36. INSTALL REAR DISC BRAKE BUSH DUST BOOT

- (a) TMC made:
Install the rear disc brake bush dust boot.
 - (1) Apply the lithium soap base glycol grease to seal surface of a new bush dust boot.
 - (2) Install the bush dust boot to the cylinder slide pin.
- (b) TMMK made:
Install the rear disc brake bush dust boot.
 - (1) Apply the lithium soap base glycol grease to seal surface of a 2 new bush dust boots.
 - (2) Install the 2 bush dust boots to the each cylinder slide pin.

37. INSTALL REAR DISC BRAKE PAD SUPPORT PLATE

- (a) Install the rear disc brake pad support plate No.1.

38. INSTALL REAR DISC BRAKE PAD SUPPORT PLATE

- (a) Install the rear disc brake pad support plate No.2.

39. INSTALL REAR DISC BRAKE ANTI SQUEAL SHIM KIT

- (a) Coat the both sides of No.1 anti-squeal shim with pad grease all over, and install the shim together with No.2 anti-squeal shim to each pad.
- (b) TMC made:
Install the 2 pad wear indicator plates to the each of 2 brake pads.

NOTICE:

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

- (c) TMMK made:
Install the pad wear indicator plate to the inner pad.

NOTICE:

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

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

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

NOTICE:

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

41. INSTALL REAR DISC BRAKE CYLINDER ASSY LH (TMC MADE)

- (a) Apply the lithium soap base glycol grease to the cylinder slide pin.
- (b) Install the disc brake cylinder assembly rear LH to the cylinder slide pin.

42. INSTALL REAR DISC BRAKE CYLINDER SLIDE PIN

- (a) Apply the lithium soap base glycol grease to the cylinder slide pin.
- (b) Install and torque the cylinder slide pin to the disc brake cylinder assembly.

Torque:

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

TMMK made: 43 N·m (440 kgf·cm, 32 ft·lbf)

43. CONNECT REAR LH FLEXIBLE HOSE

- (a) Connect a new gasket and flexible hose with the union bolt.
Torque: 29.4 N·m (300 kgf·cm, 22 ft·lbf)

44. FILL RESERVOIR WITH BRAKE FLUID**45. BLEED MASTER CYLINDER (See page 32-4)**

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46. BLEED BRAKE LINE (See page 32-4)**47. CHECK FLUID LEVEL IN RESERVOIR****48. CHECK BRAKE FLUID LEAKAGE****49. INSTALL REAR WHEEL**

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