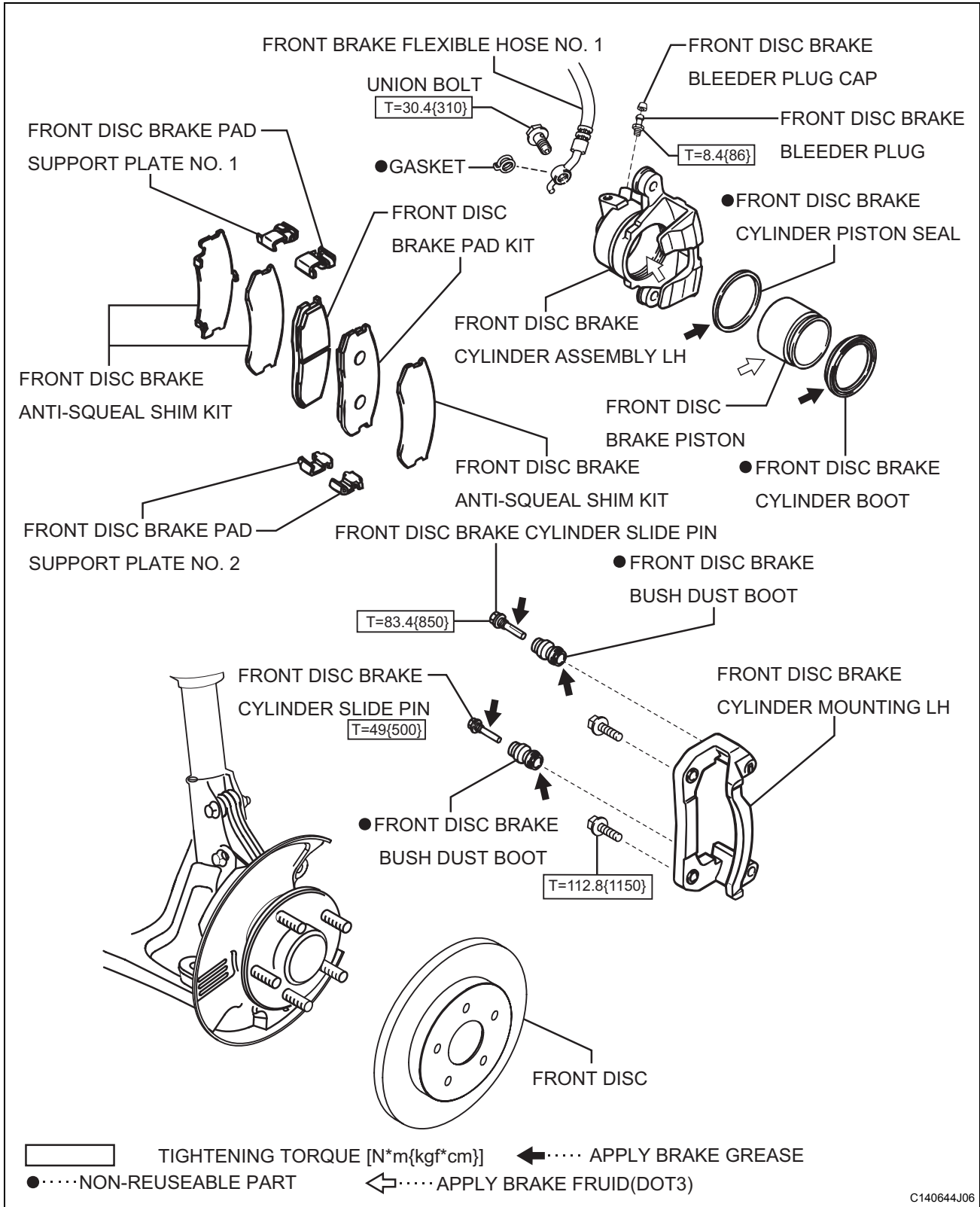


FRONT DISC BRAKE

COMPONENTS



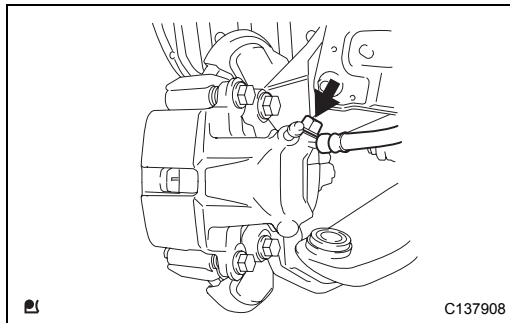
REMOVAL

1. REMOVE FRONT TIRE

2. DRAIN BRAKE FLUID

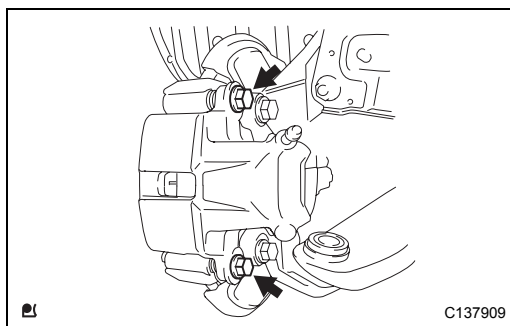
3. DISCONNECT FRONT BRAKE FLEXIBLE HOSE NO. 1

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



4. REMOVE FRONT DISC BRAKE CYLINDER ASSEMBLY LH

- (a) Remove the 2 slide pins, and remove the front disc brake cylinder assembly LH.



5. REMOVE FRONT DISC BRAKE PAD

- (a) Remove the brake pad from the disc brake cylinder mounting.

6. REMOVE FRONT DISC BRAKE ANTI-SQUEAL SHIM KIT

- (a) Remove anti-squeal shim No. 1, No. 2, and No. 3 from the brake pad.

7. REMOVE FRONT DISC BRAKE PAD SUPPORT PLATE NO. 1

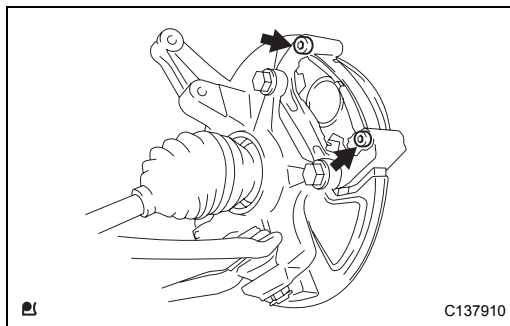
- (a) Remove brake pad support plate No. 1 from the disc brake cylinder mounting.

8. REMOVE FRONT DISC BRAKE PAD SUPPORT PLATE NO. 2

- (a) Remove brake pad support plate No. 2 from the disc brake cylinder mounting.

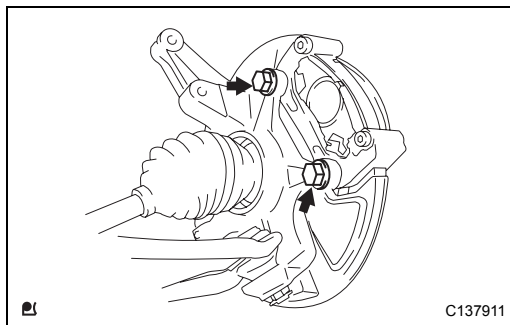
9. REMOVE FRONT DISC BRAKE BUSH DUST BOOT

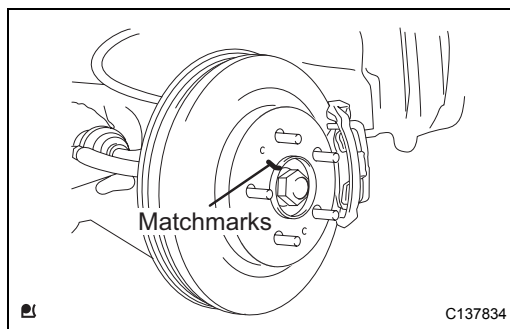
- (a) Remove the dust boot from the disc brake cylinder mounting.



10. REMOVE FRONT DISC BRAKE CYLINDER MOUNTING LH

- (a) Remove the 2 bolts, and remove the disk brake cylinder mounting.

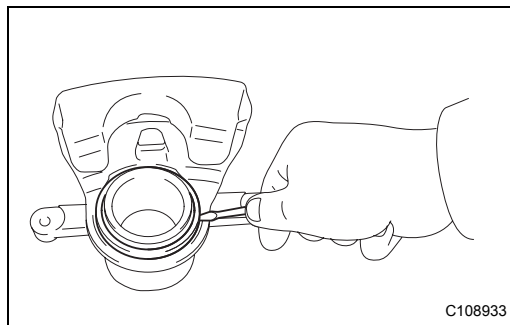




11. REMOVE FRONT DISC

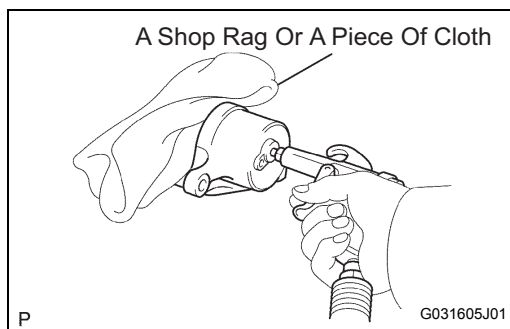
- (a) Mark the alignment of the disc and axle hub, and remove the disc.

DISASSEMBLY



1. REMOVE FRONT DISC BRAKE CYLINDER BOOT

- (a) Remove the cylinder boot from the disc brake cylinder.



2. REMOVE FRONT DISC BRAKE PISTON

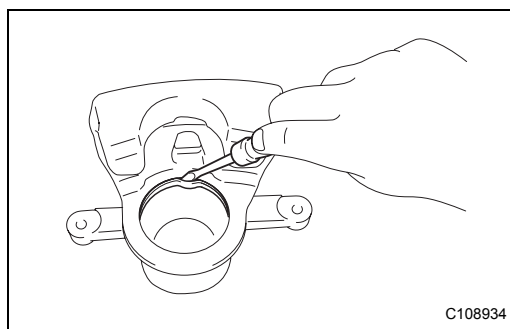
- (a) Install a wood block between the pistons of the disc brake cylinder in order to prevent the pistons from jumping out.
- (b) Using the air gun, gradually apply air, and remove the disk brake piston from the disk brake cylinder.

CAUTION:

Be careful not to pinch your fingers.

NOTICE:

Do not spatter fluid.



3. REMOVE FRONT DISC BRAKE CYLINDER PISTON SEAL

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

NOTICE:

Do not damage the inside of the disk brake cylinder or the attachment groove of the piston seal.

4. REMOVE FRONT DISC BRAKE BLEEDER PLUG CAP

5. REMOVE FRONT DISC BRAKE BLEEDER PLUG

INSPECTION

6. INSPECT DISC BRAKE PISTON AND CYLINDER

- (a) Check that the side surface and inside surface of the disc brake piston are not damaged.

7. INSPECT DISC BRAKE PAD THICKNESS

- (a) Using vernier calipers, measure the thickness of the brake pad.

Maximum limit:

1.0 mm

Reference value:

10.0 mm (when new)

8. INSPECT FRONT DISC BRAKE PAD SUPPORT PLATE NO. 1

- (a) With the brake pad still installed on the disk brake cylinder mounting, clean the contact surface of the brake pad using brake cleaner or similar.
- (b) With brake pad support plate No. 1 still installed, check for looseness, deformation, cracks, rust, or any foreign matter that is difficult to remove.
- (c) When attaching a disk brake pad, check that brake pad support plate No. 1 has spring force. After installation, check that the disk brake pad cannot fall off easily.

9. INSPECT FRONT DISC BRAKE PAD SUPPORT PLATE NO. 2

- (a) With the brake pad still installed on the disk brake cylinder mounting, clean the contact surface of the brake pad using brake cleaner or similar.
- (b) With brake pad support plate No. 1 still installed, check for looseness, deformation, cracks, rust, or any foreign matter that is difficult to remove.
- (c) When attaching the disc brake pad, check that brake pad support plate No. 2 has spring force. After installation, check that the disc brake pad cannot fall off easily.

10. INSPECT DISC THICKNESS

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

Maximum limit:

15.0 mm (SOLID)

21.0mm (VENTI)

Reference value:

16.0 mm (SOLID, when new)

22.0 mm (VENTI, when new)

11. INSPECT DISC RUNOUT

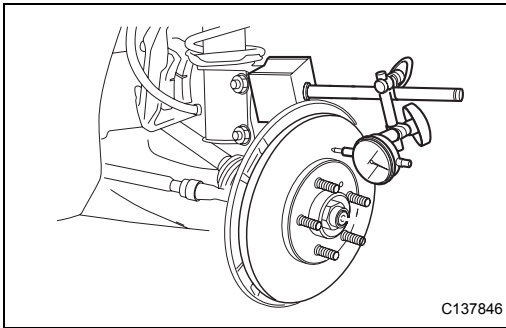
- (a) Check that the front wheel bearings do not rattle.
- (b) Using a dial gauge, inspect the runout at 10 mm inside the outer edge of the disc.

Maximum runout:

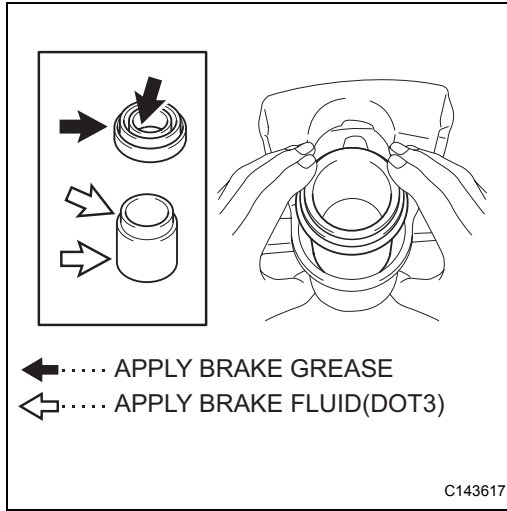
0.10 mm

NOTICE:

If the disk run exceeds the specified range, check for axle hub run. If no abnormalities are found in the axle hub, replace the disc.

**REASSEMBLY**

- 1. TEMPORARILY TIGHTEN FRONT DISC BRAKE BLEEDER PLUG**
- 2. INSTALL FRONT DISC BRAKE BLEEDER PLUG CAP**
- 3. INSTALL FRONT DISC BRAKE CYLINDER PISTON SEAL**
 - (a) Apply brake grease to the entire circumference of the new piston seal, and securely install it to the groove of the disc brake cylinder.
- 4. INSTALL FRONT DISC BRAKE PISTON**
 - (a) Apply brake grease to a new cylinder boot.



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

NOTICE:

Install the cylinder boot to the groove of the disc brake piston.

- (c) Apply a thin layer of brake fluid (DOT3) to the outer edge of the disc brake piston, and attach the disc brake piston to the disc brake cylinder.

NOTICE:

Do not force the disk brake piston.

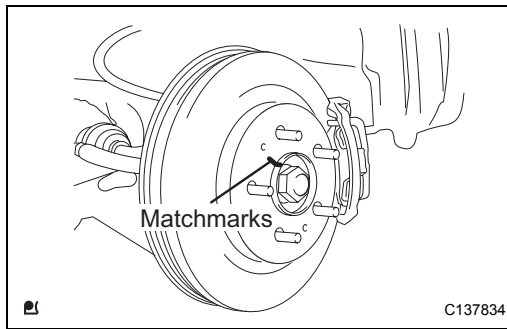
5. INSTALL FRONT DISC BRAKE CYLINDER BOOT

- (a) Install the cylinder boot to the disc brake cylinder.

NOTICE:

Securely install the cylinder boot to the groove of the disc brake cylinder.

INSTALLATION

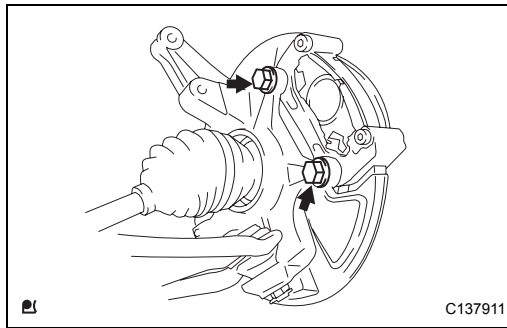


6. INSTALL FRONT DISC

- (a) Using the matchmarks, align the disc with the axle hub, and install the disc.

NOTICE:

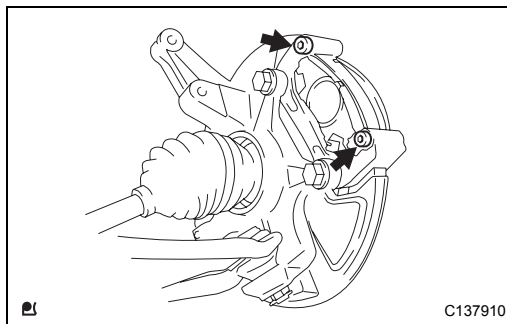
When replacing the disc with a new one, install the new disc in the position with the least run.



7. INSTALL FRONT DISC BRAKE CYLINDER MOUNTING LH

- (a) Install the disc brake cylinder mounting to the steering knuckle with the 2 bolts.

Torque: 112.8 N*m (1150 kgf*cm)



8. INSTALL FRONT DISC BRAKE BUSH DUST BOOT

- (a) Apply brake grease to the inside of a new dust boot.
(b) Install the dust boot to the disc brake cylinder mounting.

9. INSTALL FRONT DISC BRAKE PAD SUPPORT PLATE NO. 2

- (a) Install brake pad support plate No. 2 to the disc brake cylinder mounting.

10. INSTALL FRONT DISC BRAKE PAD SUPPORT PLATE NO. 1

- (a) Install brake pad support plate No. 1 to the disc brake cylinder mounting.

11. INSTALL FRONT DISK ANTI-SQUEAL SHIM KIT

- (a) Install the front disc anti-squeal shim kit to the brake pad.

12. INSTALL FRONT DISC BRAKE PAD KIT

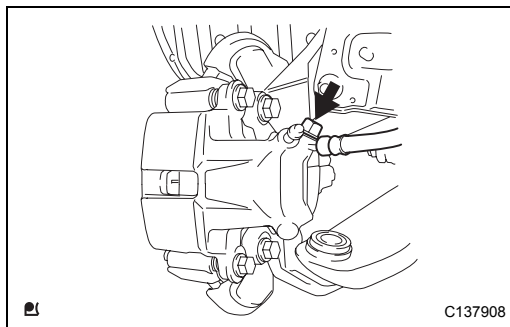
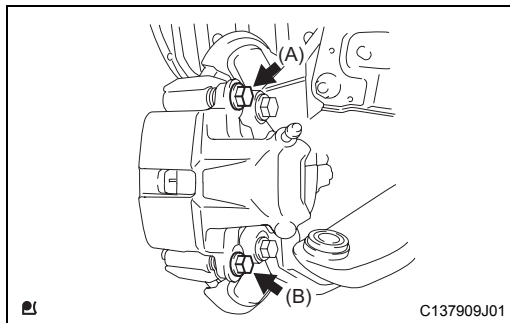
- (a) Install the brake pad to the disc brake cylinder mounting.

13. INSTALL FRONT DISC BRAKE CYLINDER SLIDE PIN

- (a) Install cylinder disk brake LH.
(b) Apply brake grease to the contact surface of the new front disc brake bush dust boot and the front disc brake cylinder slide pin.
(c) Apply brake grease to the sliding surfaces of the front disc brake cylinder slide pin.
(d) Install the front disc brake cylinder slide pin to the front disc brake cylinder assembly LH.

Torque: 83.4 N*m (850 kgf*cm) (Bolt A)

49 N*m (500 kgf*cm) (Bolt B)

**14. CONNECT FRONT BRAKE FLEXIBLE HOSE NO. 1**

- (a) Placing a new gasket in between the parts, connect the flexible hose to the disc brake cylinder using the union bolt.

Torque: 30.4 N*m (310 kgf*cm)

NOTICE:

When connecting the flexible hose, check that the hose is not twisted or bent, and make sure that the hose does not interfere with other parts.

15. BLEED AIR FROM BRAKE SYSTEM (WITHOUT VSC)(See page BR-5)**16. BLEED AIR FROM BRAKE SYSTEM (WITH VSC)(See page BR-7)****17. CHECK FOR BRAKE FLUID LEAKS****18. INSTALL FRONT TIRE**

Torque: 103 N*m (1050 kgf*cm)

