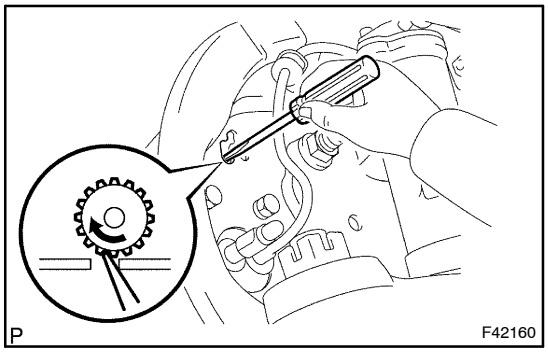
320UG–01

OVERHAUL

1. DRAIN BRAKE FLUID



2. REMOVE BRAKE DRUM

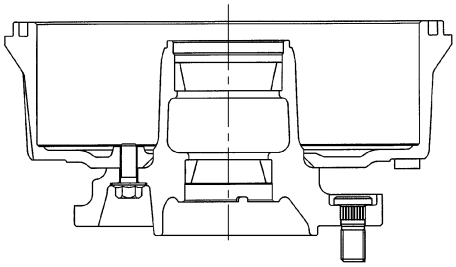
(a) Remove the drum together with the axle hub (See pages 26–7 and 26–17).

HINT:

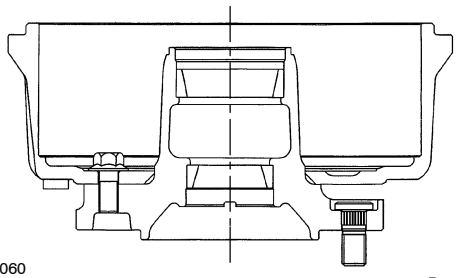
If the brake drum cannot be easily removed, perform the following steps:

Insert a screwdriver into the hole in the backing plate, and reduce the brake shoe adjustment volume by turning the adjusting nut.

Standard Cab 2.0 t & 3.0 t
Wide Cab 2.0 t



Wide Cab Over 2.0 t

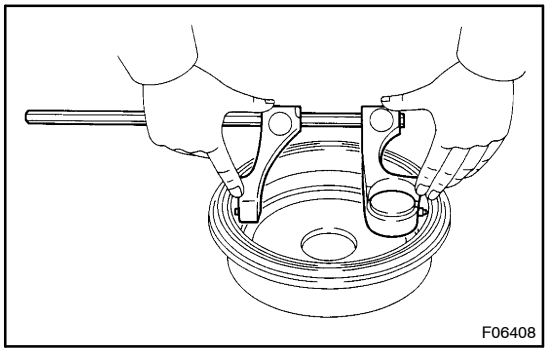


(b) Place matchmarks on the axle hub and the drum.

(c) Remove the bolts and retainer ring, and separate the drum from the axle hub.

HINT:

Bolts inserting directionare shown in the illustration.



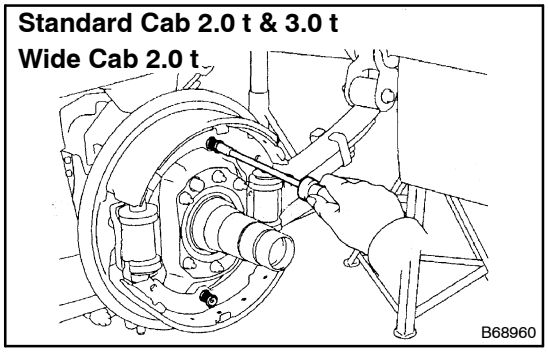
3. MEASURE BRAKE DRUM INSIDE DIAMETER

(a) Using a brake drum gauge or equivalent, measure the inside diameter of the drum.

Inside diameter:

Standard	320 mm (12.598 in.)
Maximum	322 mm (12.677 in.)

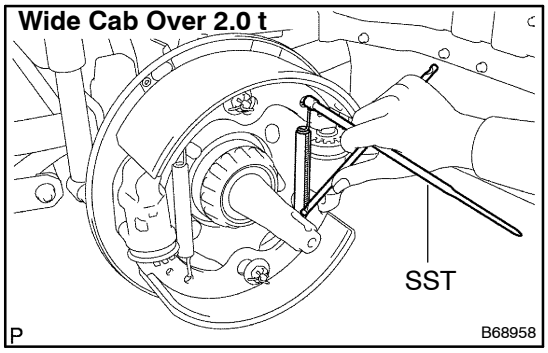
If the drum is scored or worn, the brake drum may be lathed to the maximum inside diameter.



4. REMOVE BRAKE SHOES

(a) Standard cab 2.0 t & 3.0 t, wide cab 2.0 t:
Using SST, remove the shoe hold–down cups and springs.
SST 09718–00010

(b) Remove the 2 brake shoes.

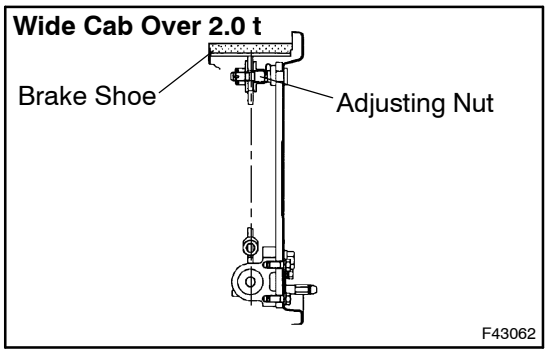


(c) Wide cab over 2.0 t:
Using SST, remove the 2 return springs.
SST 09703–30010

(d) Remove the cotter pin from each shoe.

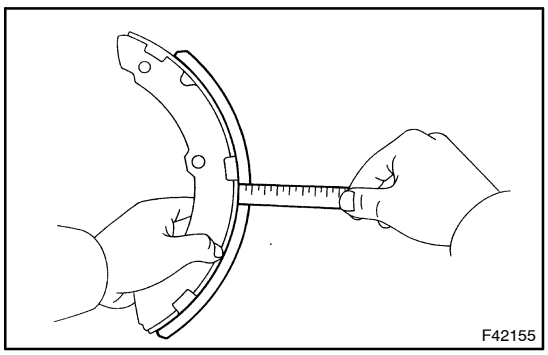
(e) Remove the nut and plate washer from each shoe.

(f) Remove the 2 brake shoes.



NOTICE:

- **Do not loosen the adjusting nuts.**
- **The adjusting nuts have been adjusted the shoe squareness.**



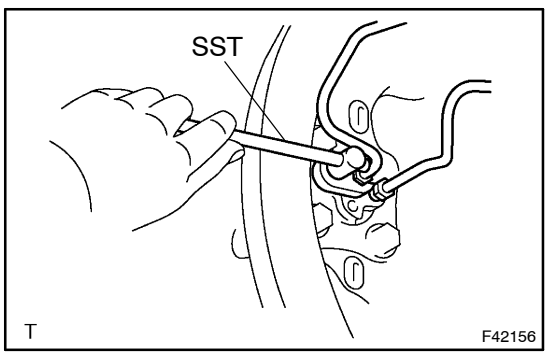
5. MEASURE DRUM BRAKE SHOE LINING THICKNESS

(a) Using a ruler, measure the shoe lining thickness.
Minimum thickness: 4.0 mm (0.157 in.)

If the shoe lining thickness is less than the minimum or the lining shows signs of uneven wear, replace the brake shoes.

HINT:

If any of the brake shoes have to be replaced, replace all the front brake shoes in order to maintain even braking effect.



6. REMOVE FRONT OR UPPER FRONT WHEEL BRAKE CYLINDER ASSY

(a) Using SST, disconnect the brake line from the wheel cylinders. Use a container to catch the brake fluid.
SST 09023–00100

(b) Remove the bolts and wheel cylinder.

7. REMOVE REAR OR LOWER FRONT WHEEL BRAKE CYLINDER ASSY

HINT:

Remove the cylinder assy on the rear or lower side using the same procedures as on the front or upper side.

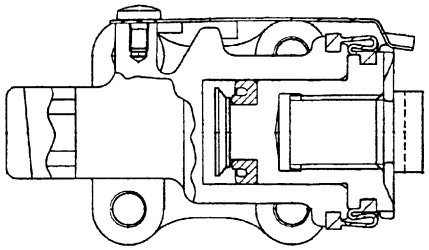
8. REMOVE FRONT WHEEL CYLINDER CUP KIT

(a) Remove the piston head, adjuster wheel and boot.
(b) Remove the piston assembly.
(c) Remove the adjuster and shaft assembly.
(d) Rear side cylinder only:
Remove the bleeder plug.

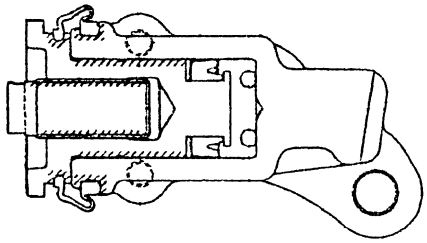
9. INSPECT BRAKE WHEEL CYLINDER

(a) Check the wheel cylinder for wear, rust or scoring.

Standard Cab 2.0 t & 3.0 t
Wide Cab 2.0 t



Wide Cab Over 2.0 t



B66800
B66801

B66803

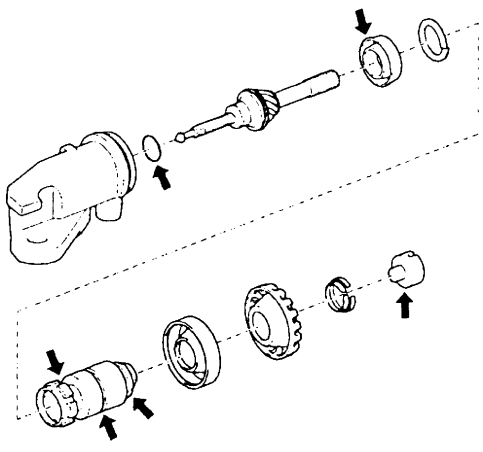
10. INSTALL FRONT WHEEL CYLINDER CUP KIT

(a) Standard cab 2.0 t & 3.0 t, manual adjuster:
(1) Apply lithium soap base glycol grease to new parts indicated by the arrows as shown in the illustration.
(b) Wide cab over 2.0 t manual adjuster:
Install the piston back–up ring.
(1) Install the cup, paying attention to its orientation.
(2) Insert the adjuster shaft assembly into the piston.

NOTICE:

Screw the assembly all the way so that the thread does not catch.

For Portugal



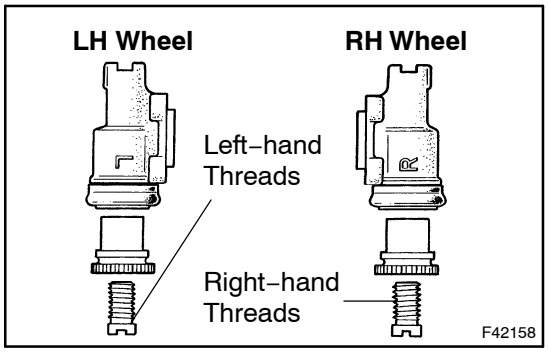
F42370

(c) Insert the piston assembly into the wheel cylinder.
(d) Install the boot.
(e) Install the piston head, boot protector and adjustor wheel.
(f) Rear side cylinder only:
Temporarily tighten the bleeder plug, and install the bleeder plug cap.

NOTICE:

- **Install the piston head according to the orientation of the brake shoe, and store it securely inside the piston.**
- **Install the adjuster wheel and the boot protector in the correct installation sequence and according to the width of the two piston sides.**
- **When there are no problems, do not remove the locator spring and locator from the adjuster.**

If they have been removed, screw them all the way into the adjuster shaft for proper installation.



HINT:
There are 2 kinds of adjusting nuts and bolts.
Make sure that each location has its correct adjusting nuts and bolts.

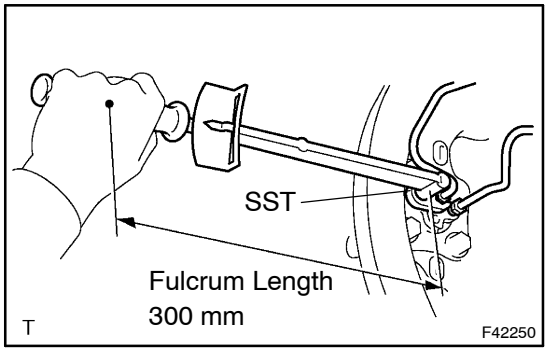
RH wheel (R mark) – Right–hand threads
LH wheel (L mark) – Left–hand threads

11. INSTALL REAR OR LOWER FRONT WHEEL BRAKE CYLINDER ASSY

(a) Apply brake grease to the shoe contact part of the backing plate.

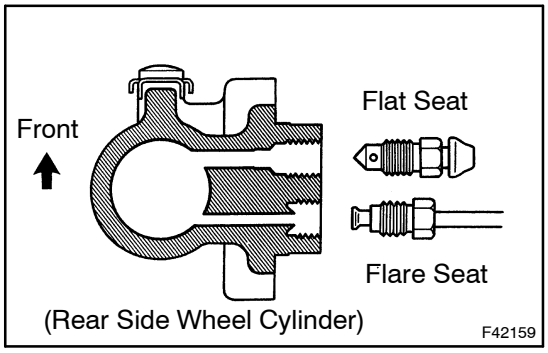
(b) Install the 2 bolts and wheel cylinder.

Standard cab 2.0 t & 3.0t, wide cab:
Torque:
M10 x 1.25 bolt: 61 N·m (622 kgf·cm, 45 ft·lbf)
Wide cab over 2.0 t:
Torque:
M8 x 1.25 bolt: 21 N·m (214 kgf·cm, 15 ft·lbf)
M14 x 1.5 bolt: 105 N·m (1,071 kgf·cm, 77 ft·lbf)



(c) Using SST, connect the brake line to the wheel cylinder.
SST 09023–00100
Torque:
12.9 N·m (131 kgf·cm, 9.4 ft·lbf) for use with SST
15 N·m (155 kgf·cm, 11 ft·lbf)

HINT:
Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).



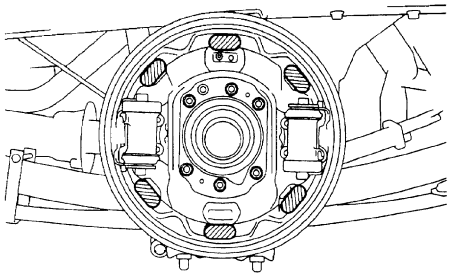
HINT:

- There are 2 types of the rear side wheel cylinder union seats, flat seat type and flared seat type, as shown in the illustration.
- Both union seats of the rear side wheel cylinder are flared.

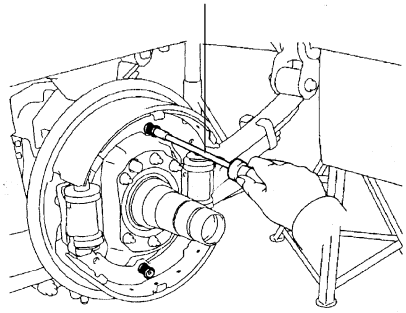
12. INSTALL FRONT OR UPPER FRONT WHEEL BRAKE CYLINDER ASSY

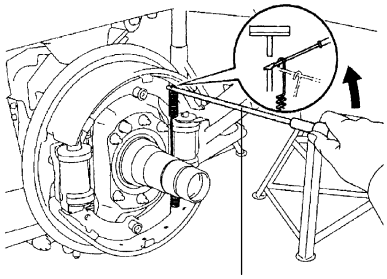
HINT:
Install the cylinder assy on the front or upper side using the same procedures as on the rear or lower side.

Standard Cab 2.0 t & 3.0 t
Wide Cab 2.0 t



09718–00010





F43065
F43066
F43067

09703–30010

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13. INSTALL BRAKE SHOES

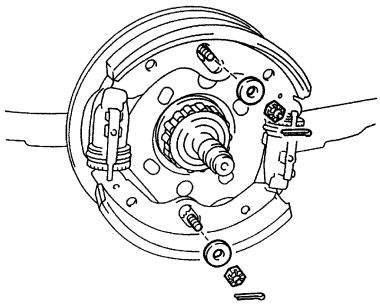
(a) Standard cab 2.0 t & 3.0 t, wide cab 2.0 t:
Apply brake grease to the shoe contact part of the backing plate.

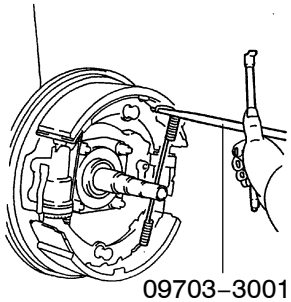
(b) Install the brake shoe assembly on the backing plate.

(c) Using SST, install the shoe hold–down spring cup, pin and spring.
SST 09718–00010

(d) Using SST, install the front tension spring.
(1) Install the front tension spring in the outside brake shoe.
(2) Install the rear tension spring in the inside brake shoe.
SST 09703–30010

Wide Cab Over 2.0 t





B64345
B64346

09703–30010

B66629

(e) Wide cab over 2.0 t:
Apply brake grease to the contact surface of the brake shoe with the wheel cylinder.

(f) Install the brake shoe assembly on the backing plate so that the elongated hole of the brake shoe assembly is in the tire rotation direction.

(g) Tighten the plain washer and nut by hand, and install a cotter pin within 1/3 to 1/2 turns in the loosening direction.

(h) Using SST, install the 2 return springs.
SST 09703–30010

HINT:

- While pressing the shoe against the backing plate side, install the shoe to the backing plate by tightening the nut by hand.
- Loosen the nut by 2/6 – 3/6 turns to install a new cotter pin.

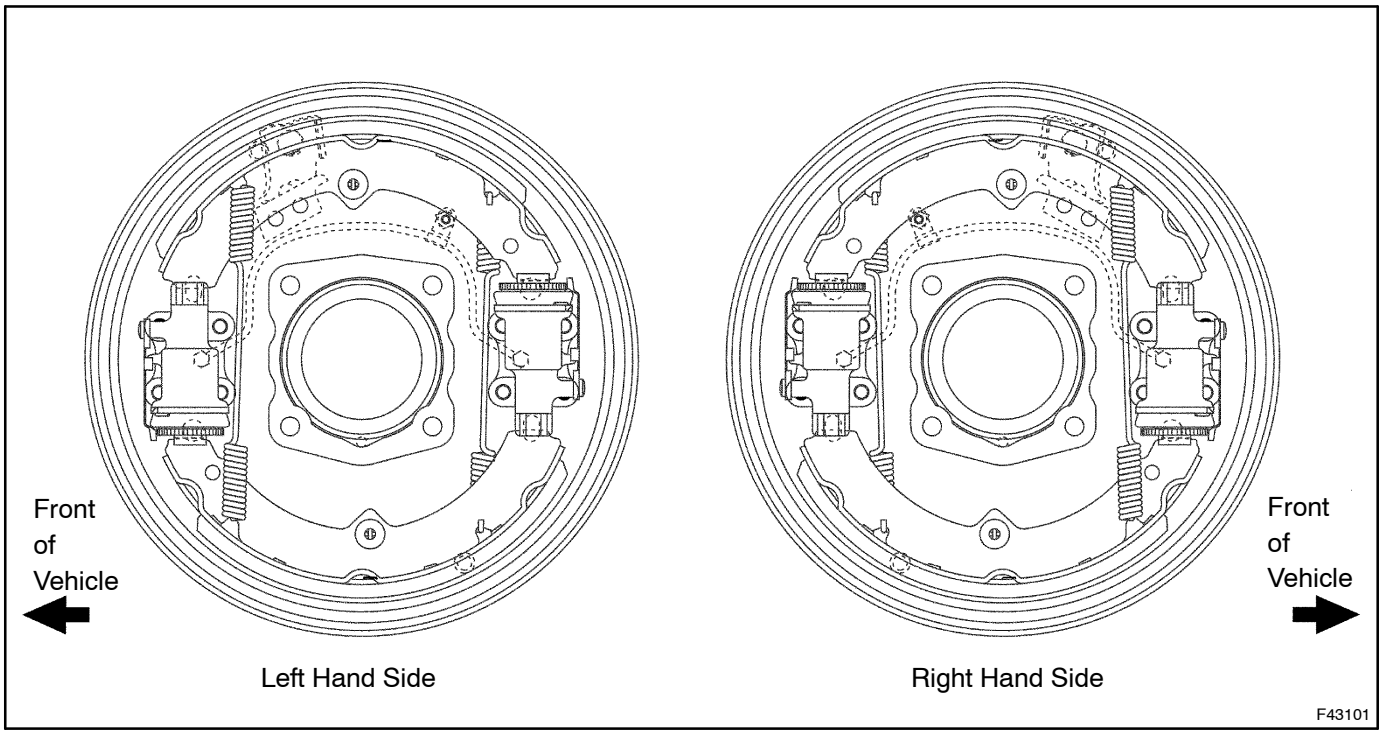
14. INSPECT FRONT DRUM BRAKE INSTALLATION

(a) Check that each part has been installed correctly.

NOTICE:

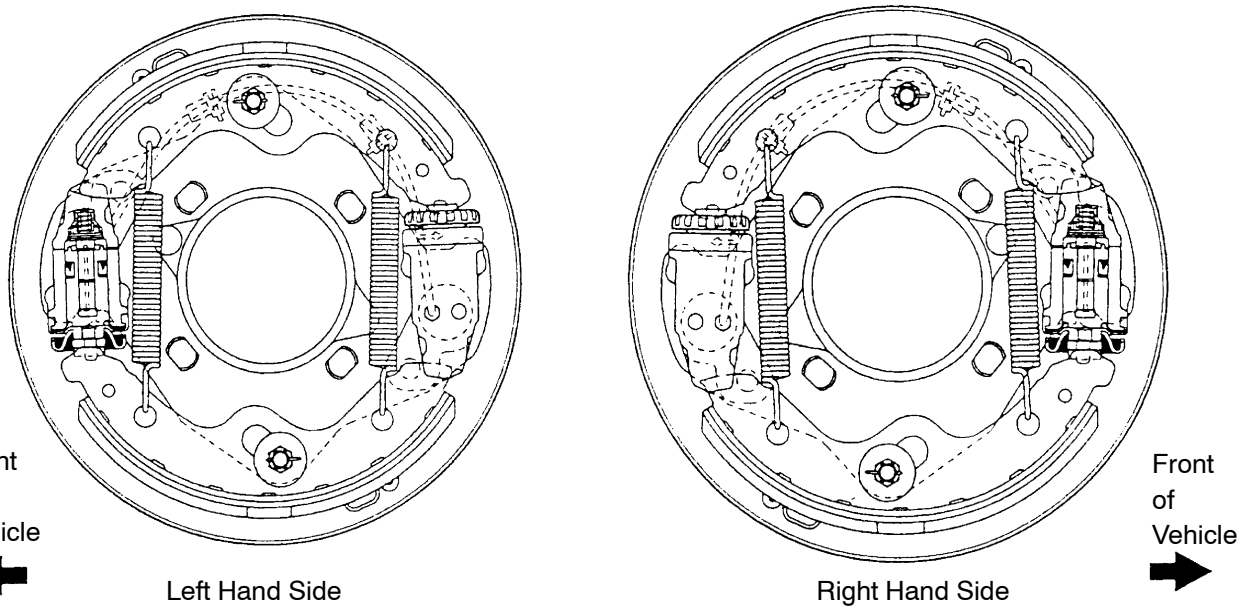
- **Confirm that the wheel cylinder boot is not damaged and that grease or other lubricant does not stick.**
- **Confirm that no oil, moisture, etc. do not stick to the shoe lining surface.**

Standard cab 2.0 t & 3.0 t, wide cab:

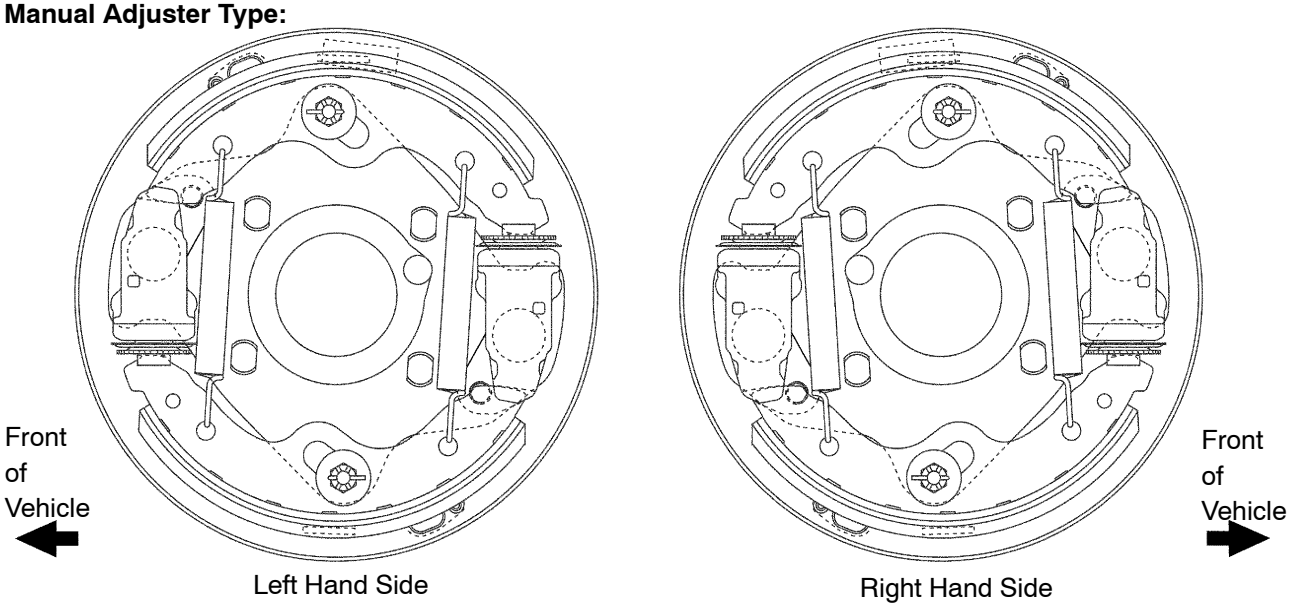


Widecab over 2.0 t:

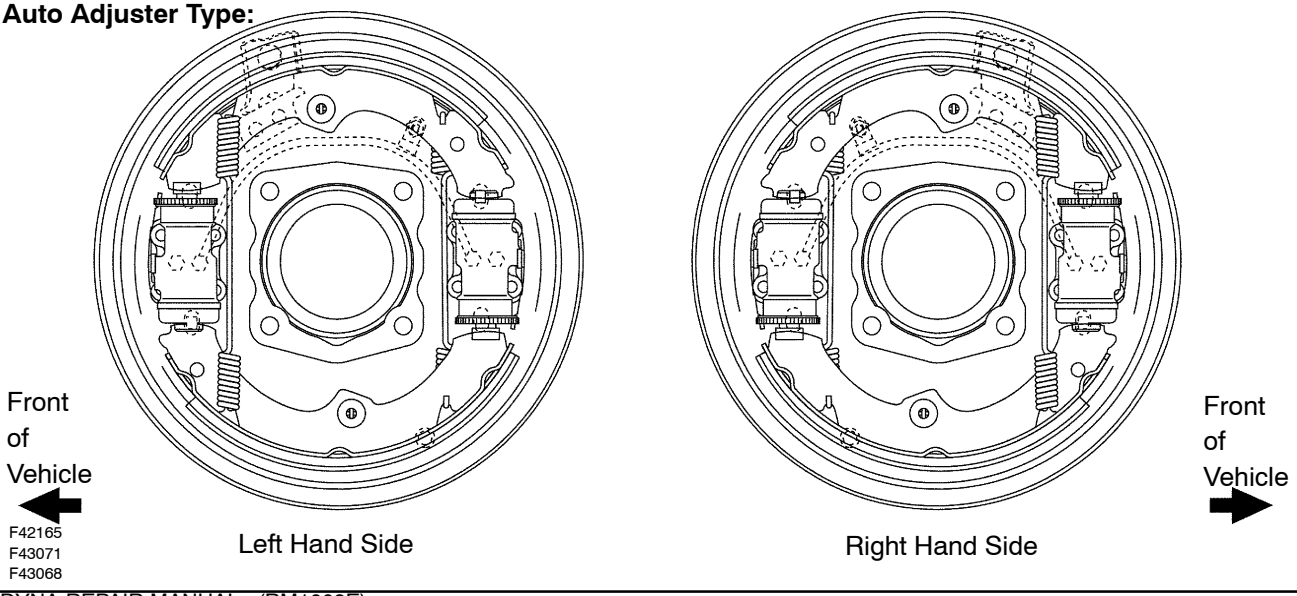
Manual Adjuster Type:



Manual Adjuster Type:



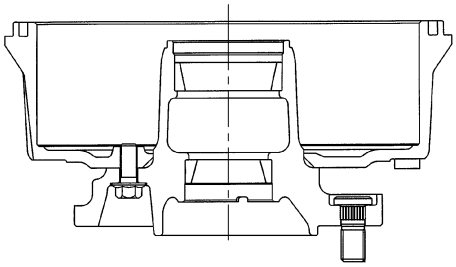
Auto Adjuster Type:



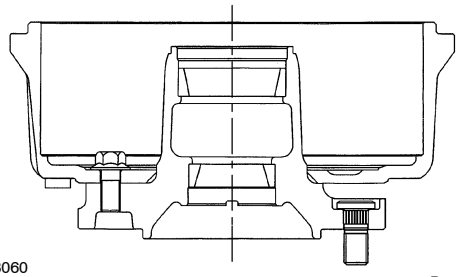
F42165
F43071
F43068

B68736

Standard Cab 2.0 t & 3.0 t
Wide Cab 2.0 t



Wide Cab Over 2.0 t



F43060
F43061
B66625

15. INSTALL BRAKE DRUM

(a) Match the matchmarks, and assemble the drum and the hub.
Torque:
200 N·m (2,050 kgf·cm, 148 ft·lbf) for WU and XZU type

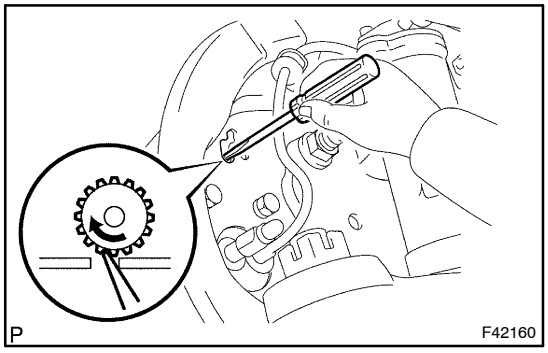
(b) Install the drum to the axle hub (See pages 26–7 and 26–17).

16. ADJUST FRONT DRUM BRAKE SHOE CLEARANCE

(a) Standard cab 2.0 t & 3.0 t, wide cab:
Rotate the adjusting wheel to shoe expanding direction untill the drum barely rotates by hand.

(b) Return the adjusting wheel 5 notches to shoe contact direction. After the shoe is contracted if there is drag with the drum cannot rotare by hand, adjust the gap again, or remove the drum and check the brake installtion condition.

(c) The plug of service hole on the backside of the back plate is removed when adjusting the gap. Securely install the plug to prevent foreign matter from coming in.



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F42160

(d) Wide cab over 2.0 t:
Remove the shoe adjusting hole plug from the backing plate.

(e) Using a screwdriver, rotate the wheel cylinder adjusting nut in the direction opposite to the arrow mark as shown in the illustration.

(f) Adjust the brake shoe gap so that the clearance between the brake drum and shoe becomes 0.

(g) Using a screwdriver, return the adjusting nut in the arrow mark direction.
Standard number of notches to be backed off:
10 – 14 notches

(h) Rotate the tire and confirm the smooth rotation.

(i) Install the shoe adjusting hole plug.

(j) Check that the pedal reserve distance is correct (See page 32–7).

17. BLEED BRAKE LINE (See page 32–4)

18. CHECK FLUID LEVEL IN RESERVOIR (See page 32–4)

19. CHECK BRAKE FLUID LEAKAGE