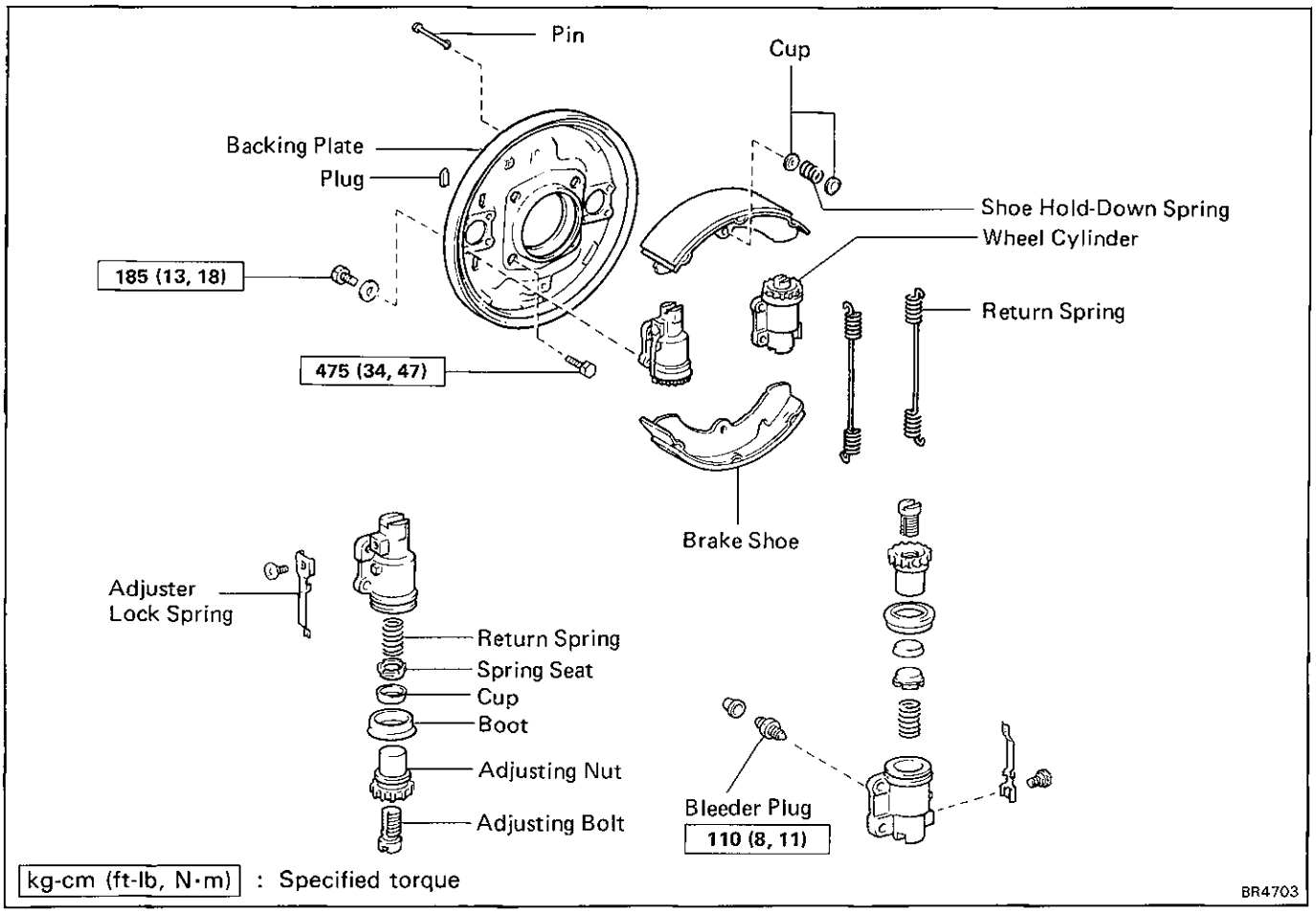
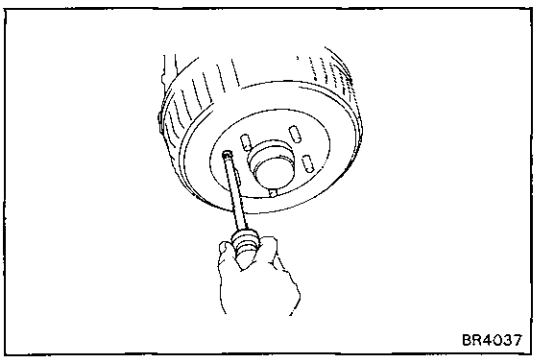
FRONT BRAKE

Drum Brake

COMPONENTS

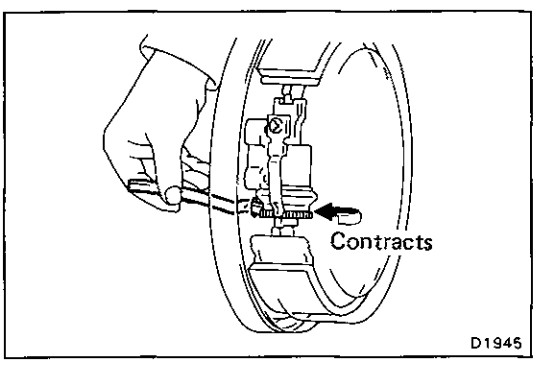




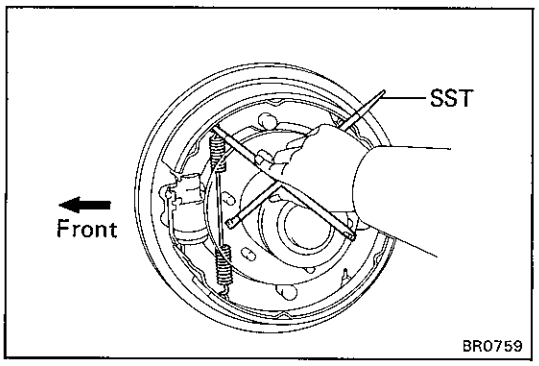
REMOVAL OF FRONT BRAKE

1. **REMOVE FRONT WHEEL**
2. **REMOVE BRAKE DRUM**

   Remove the screw and brake drum.



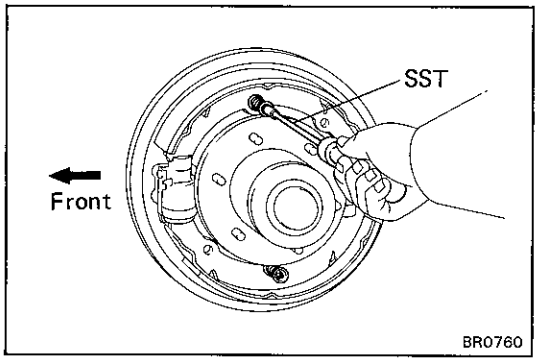
HINT: If the brake drum can not be removed easily, remove the plug in the backing plate and insert a screwdriver through the hole, and reduce the brake shoe adjustment by turning the adjusting nut.



3. REMOVE FRONT SIDE RETURN SPRING

Using SST, remove the front side return spring.

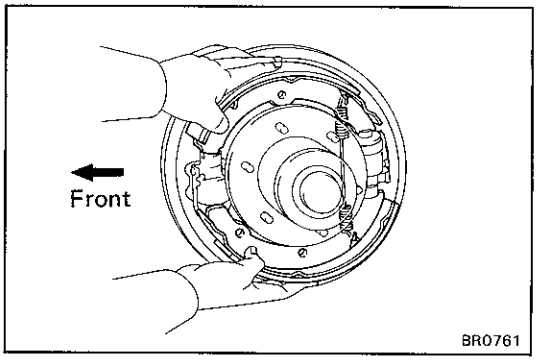
SST 09703-30010



4. REMOVE BRAKE SHOES

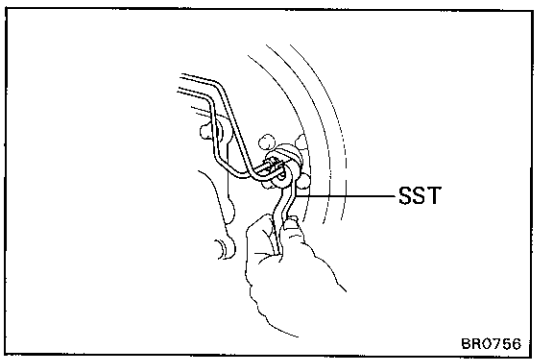
Using SST, remove the springs, cups and pins.

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5. REMOVE BRAKE SHOES AND REAR SIDE RETURN SPRING

Slide the shoes and remove them together with the rear side return spring.



6. IF NECESSARY, REMOVE WHEEL CYLINDER

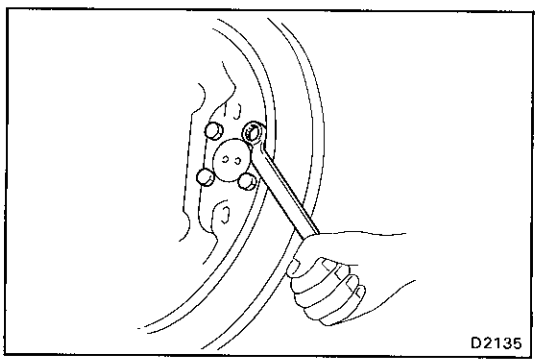
(a) Remove the brake tube clamp.

(b) Using SST, disconnect the brake tubes from the wheel cylinder.

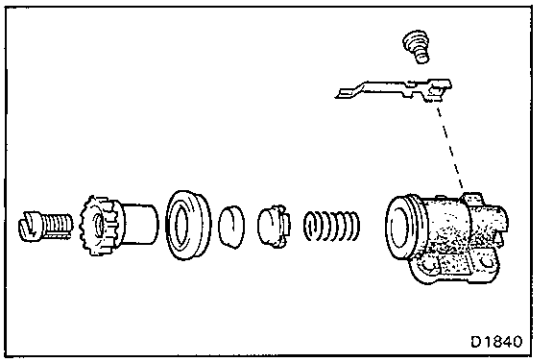
SST 09751-36011

HINT: Use a container to catch the brake fluid.

(c) Remove the bleeder plug from the rear wheel cylinder.



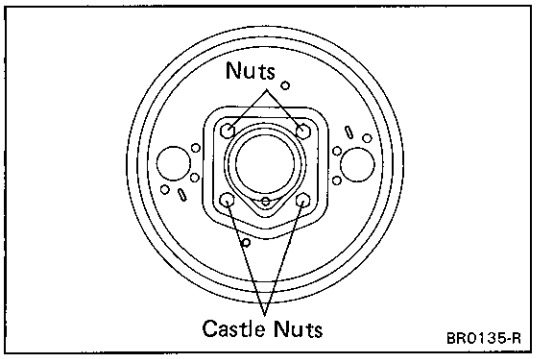
(d) Remove the four bolts and the wheel cylinder.



7. IF NECESSARY, DISASSEMBLE WHEEL CYLINDER

(a) Remove the following parts from the wheel cylinder.
- Adjusting bolt and nut
- Boot
- Cup
- Spring seat
- Return spring

(b) Remove the screw and adjuster lock spring.



8. IF NECESSARY, REMOVE BACKING PLATE

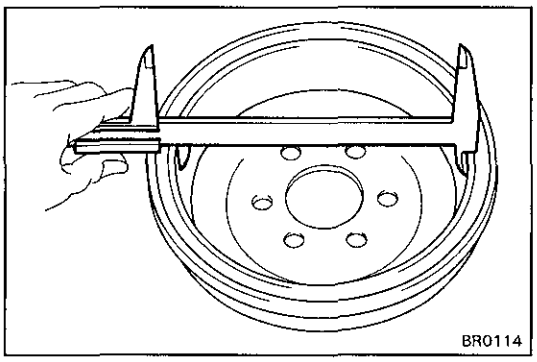
(a) Remove the front axle hub.
(See page SA-36)

(b) Remove the brake tube clamp from the backing plate and remove the backing plate.

INSPECTION AND REPAIR OF FRONT BRAKE COMPONENTS

1. INSPECT DISASSEMBLED PARTS

Inspect the disassembled parts for wear, rust or damage.



2. INSPECT BRAKE DRUM INSIDE DIAMETER

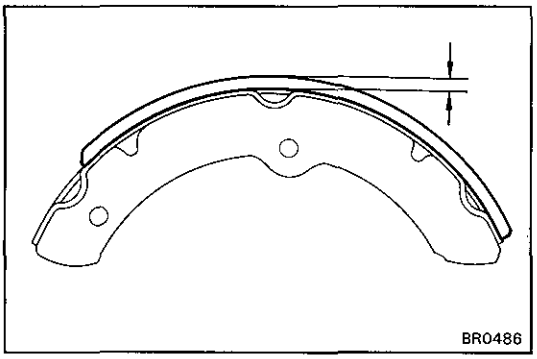
Maximum inside diameter

Heavy-Duty: 297.0 mm (11.693 in.)
Light-Duty: 281.4 mm (11.079 in.)

Standard inside diameter

Heavy-Duty: 295.0 mm (11.614 in.)
Light-Duty: 279.4 mm (11.000 in.)

If the drum is scored or worn, the brake drum may be lathed.



3. INSPECT BRAKE SHOE LINING THICKNESS

Minimum thickness:

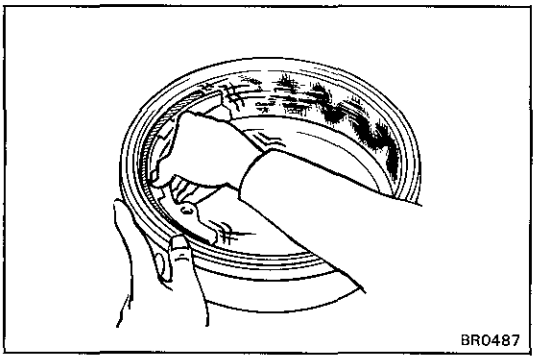
Heavy-Duty: 1.5 mm (0.059 in.)
Light-Duty: 1.0 mm (0.039 in.)

Standard thickness:

Heavy-Duty: 6.5 mm (0.256 in.)
Light-Duty: 6.0 mm (0.236 in.)

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

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



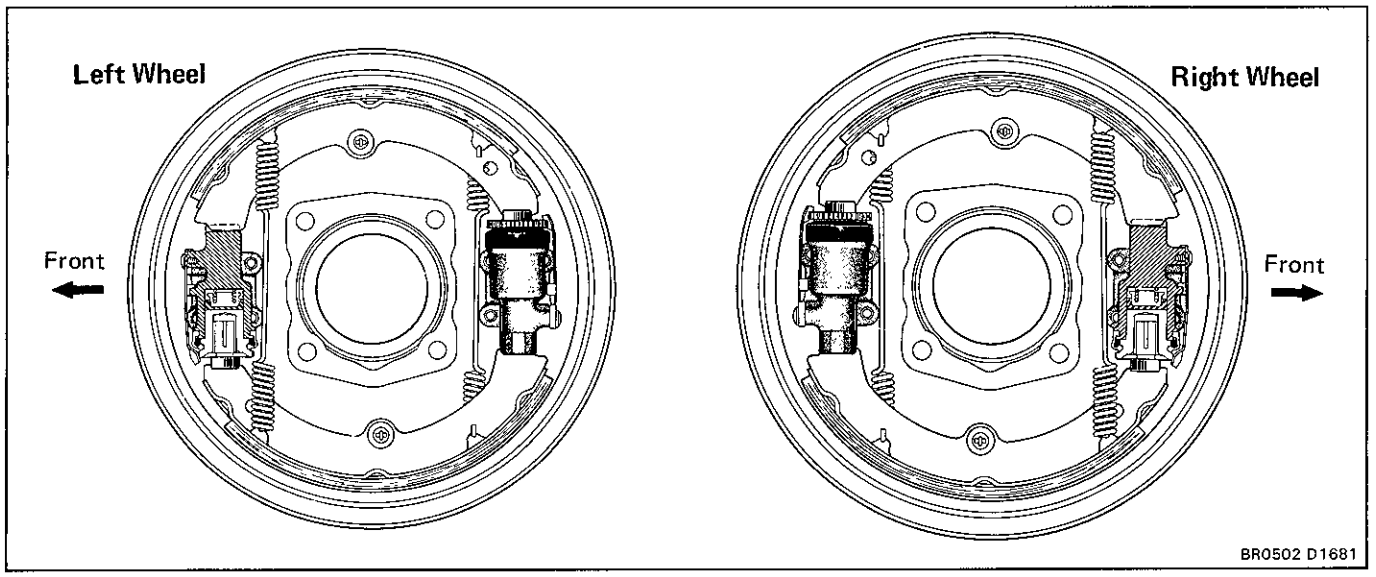
4. INSPECT BRAKE LINING AND DRUM FOR PROPER CONTACT

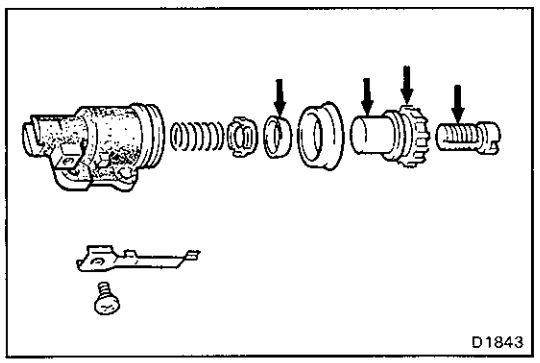
If the contact between the brake lining and drum is improper, repair the lining with a shoe grinder, or replace the brake shoe assembly.

ASSEMBLY OF FRONT BRAKE

(See page BR-62)

HINT: Assemble the parts in the correct direction as shown below.





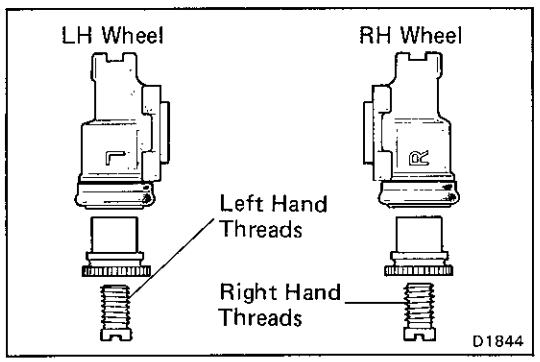
1. ASSEMBLE WHEEL CYLINDER

(a) Apply lithium soap base glycol grease to parts as shown.

(b) Assemble the wheel cylinder.

HINT: Install in proper direction only.

- Return spring
- Spring seat
- Cup
- Boot

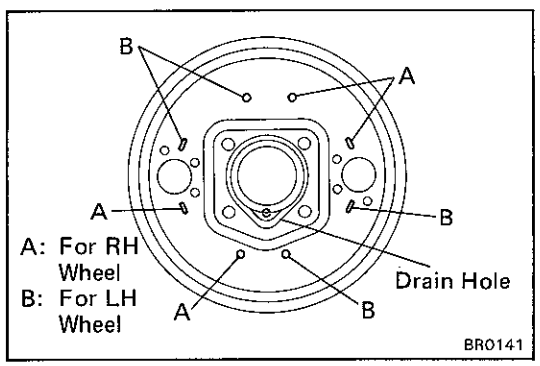


(c) Install the adjusting bolt and nut to the wheel cylinder. There are two kinds of adjusting nuts and bolts. Use each at the proper location.

RH wheel cylinder—Right-hand threads
(R mark) (Yellow color)

LH wheel cylinder—Left-hand threads
(L mark) (White color)

(d) Install the adjusting lock spring with the screw.

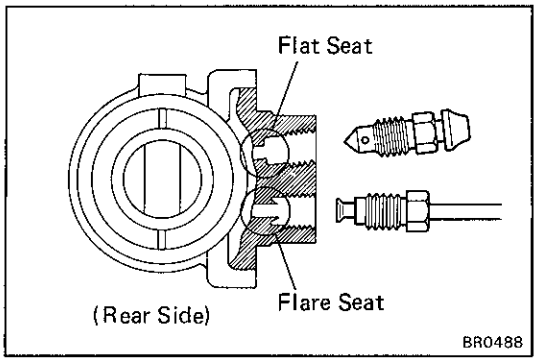


2. INSTALL BACKING PLATE TO STEERING KNUCKLE

(a) Install the backing plate with the nuts and tighten the nuts.

Torque: 475 kg-cm (34 ft-lb, 47 N·m)

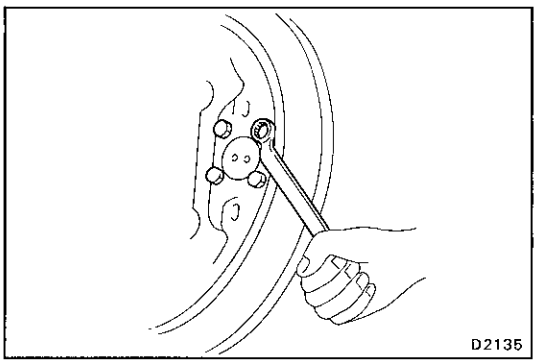
(b) Install the front axle hub.
(See page SA-48)



3. INSTALL BLEEDER PLUG

HINT:

- Rear wheel cylinder union seats are flat and flare shaped as shown.
- Both union seats of front wheel cylinder are flat.



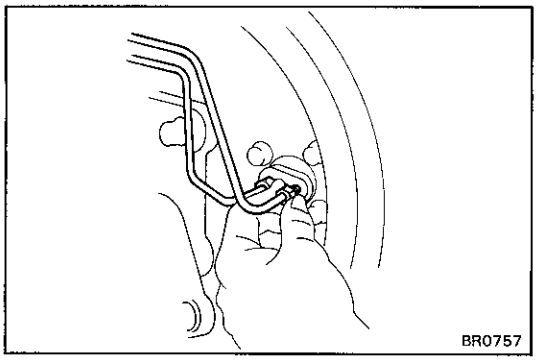
4. INSTALL WHEEL CYLINDER TO BACKING PLATE

(a) Install the front wheel cylinder with the adjuster facing downward.
(See page BR-62)

(b) Install the rear wheel cylinder with the adjuster facing upward.
(See page BR-62)

(c) Tighten the mounting bolts of the wheel cylinders.

Torque: 185 kg-cm (13 ft-lb, 18 N·m)

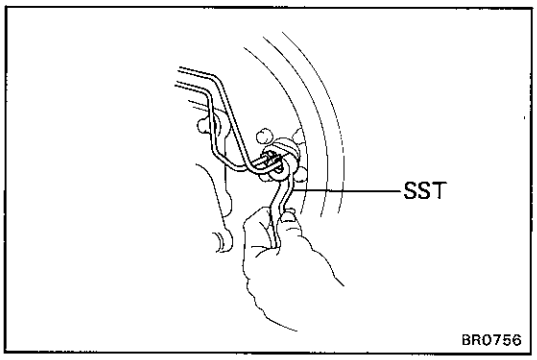


5. INSTALL BRAKE TUBE TO WHEEL CYLINDER

(a) Install the brake tube in place and tighten the nuts by finger, then tighten them with SST.

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Torque: 155 kg-cm (11 ft-lb, 15 N·m)

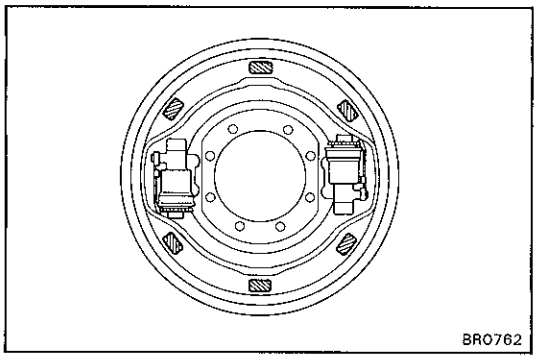


(b) Similarly, connect the brake tube from the vehicle to the wheel cylinder with SST.

SST 09751-36011

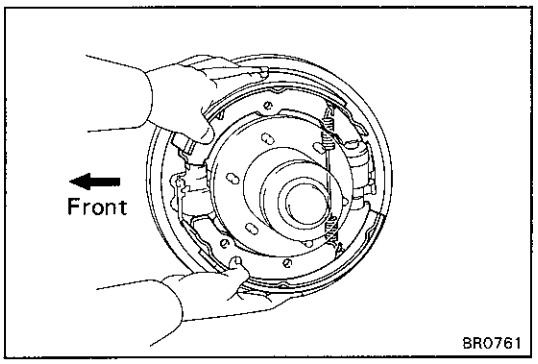
Torque: 155 kg-cm (11 ft-lb, 15 N·m)

6. INSTALL BRAKE TUBE CLAMP TO BACKING PLATE



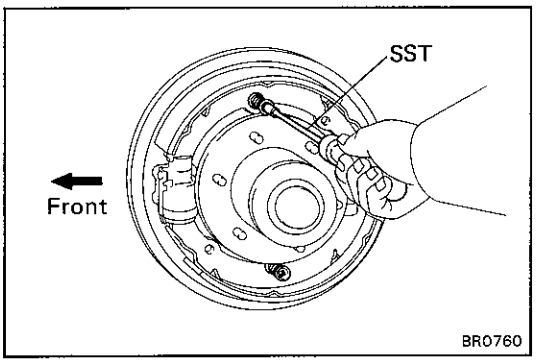
7. INSTALL BRAKE SHOES

(a) Apply high temperature grease to the brake shoe contact surfaces as shown.



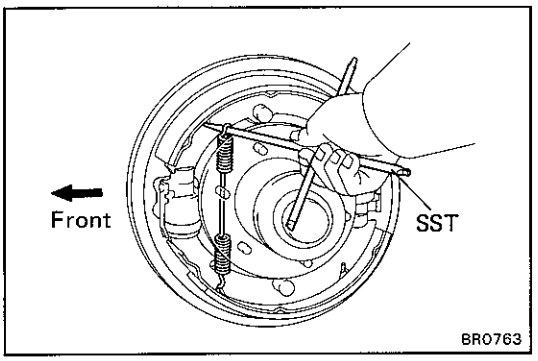
(b) Hook the return spring to the brake shoe rear inner side.

(c) Install the brake shoes assembly.



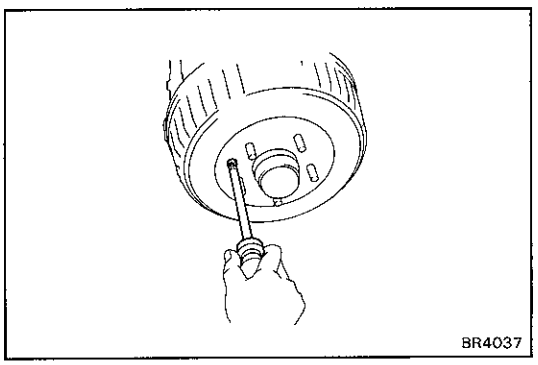
(d) Using SST, install the shoe hold-down spring, two cups and pin.

SST 09718-00010



(e) Using SST, install the other side return spring.

SST 09703-30010



8. INSTALL BRAKE DRUM

Install the brake drum and install the screw.

9. FILL BRAKE RESERVOIR WITH BRAKE FLUID AND BLEED BRAKE SYSTEM
(See page BR-7)

10. CHECK FOR FLUID LEAKAGE

11. ADJUST BRAKE SHOE CLEARANCE
(See page BR-8)

12. INSTALL FRONT WHEEL