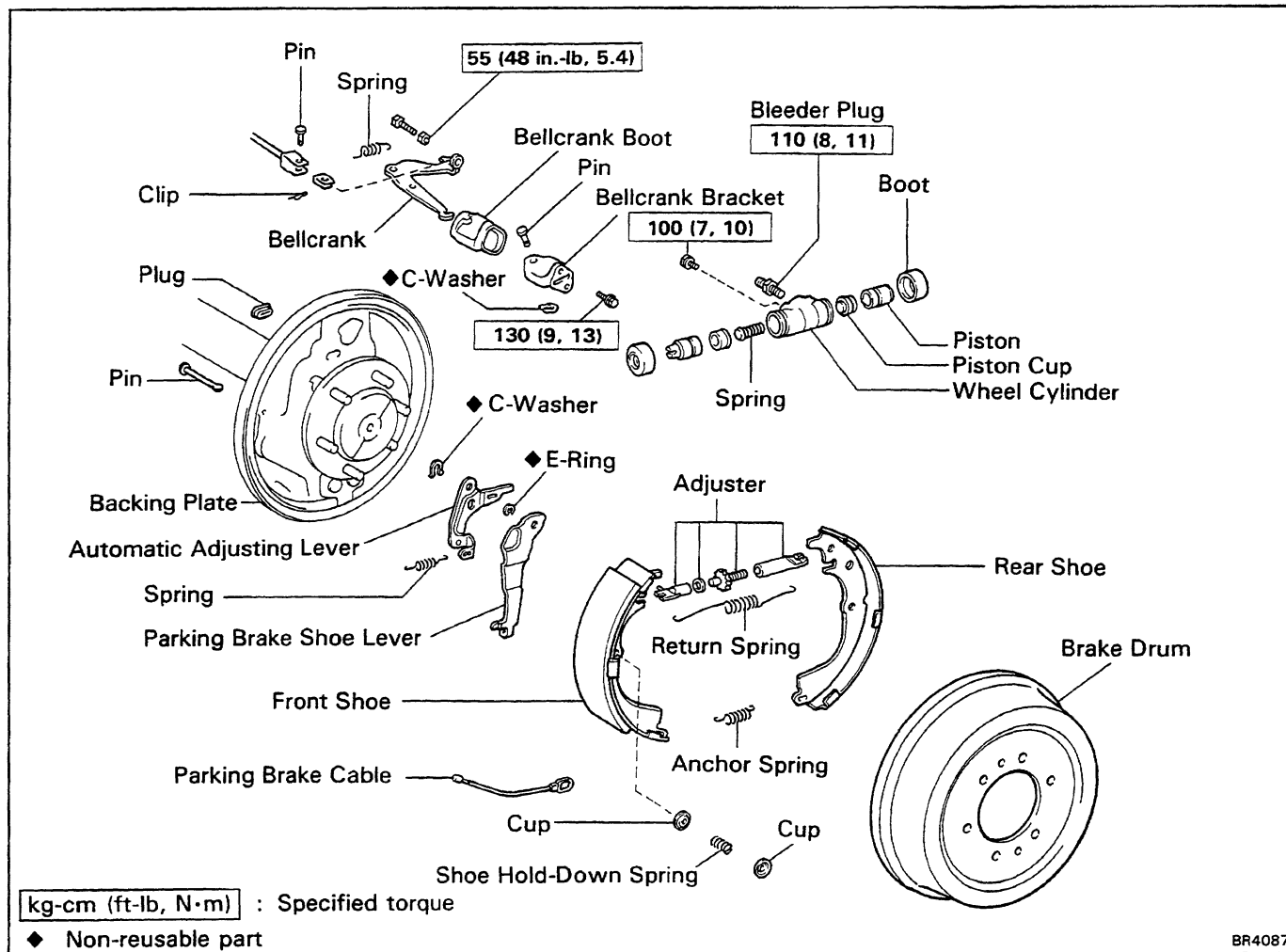
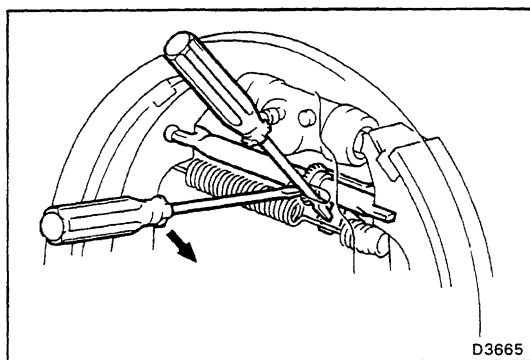


REAR BRAKE COMPONENTS



BR4087



D3665

REMOVAL OF REAR BRAKE

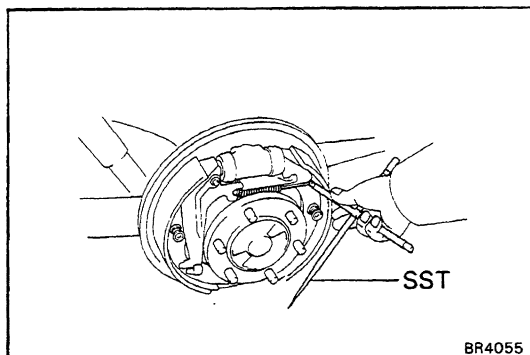
1. REMOVE REAR WHEEL AND BRAKE DRUM

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

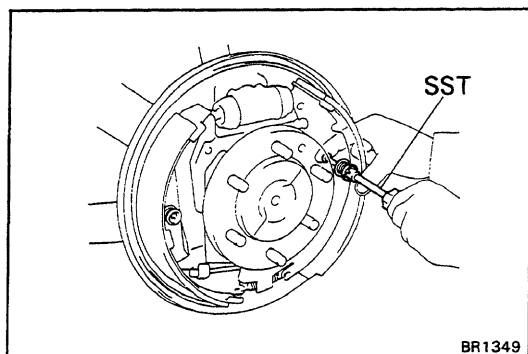
- Insert a screwdriver through the hole in the backing plate, and hold the automatic adjusting lever away from the adjusting bolt.
- Using another screwdriver, reduce the brake shoe adjustment by turning the adjusting bolt clockwise.

2. REMOVE REAR SHOE

- Using SST, remove the return spring.
SST 09703-30010



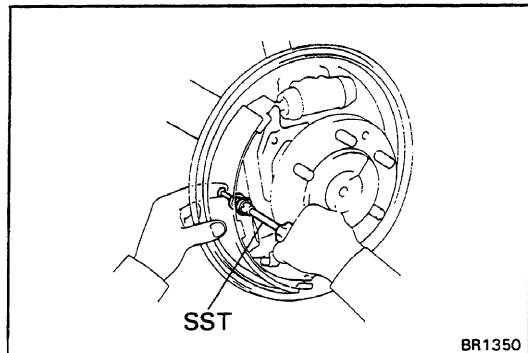
BR4055



- (b) Using SST, remove the two cups, shoe hold-down spring and a pin.

SST 09718-00010

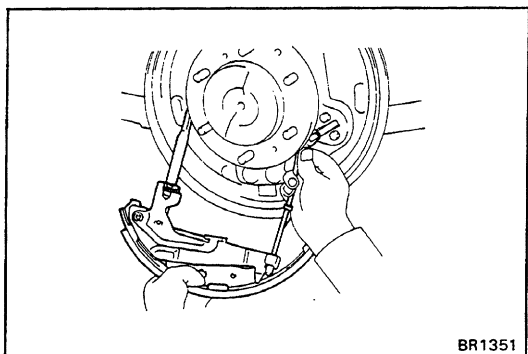
- (c) Remove the rear brake shoe and anchor spring.



3. REMOVE FRONT SHOE

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

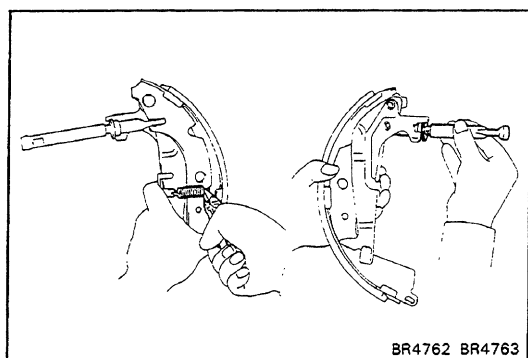
SST 09718-00010



- (b) Disconnect the parking brake cable from the parking brake bellcrank.

- (c) Remove the front shoe with adjuster.

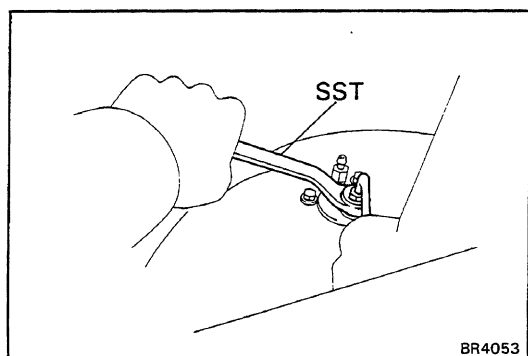
- (d) Disconnect the parking brake cable from the front shoe.



4. REMOVE ADJUSTER FROM FRONT SHOE

- (a) Remove the adjusting lever spring.

- (b) Remove the adjuster.

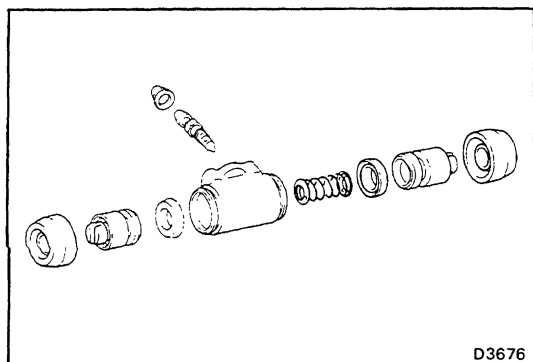


5. IF NECESSARY, REMOVE WHEEL CYLINDER

- (a) Using SST, disconnect the brake tube.

SST 09751-36011

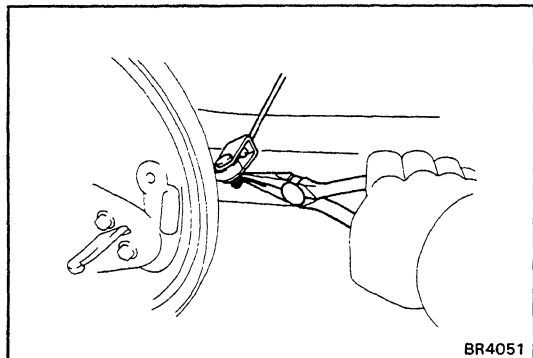
- (b) Remove the two bolts and the wheel cylinder.



6. DISASSEMBLE WHEEL CYLINDER

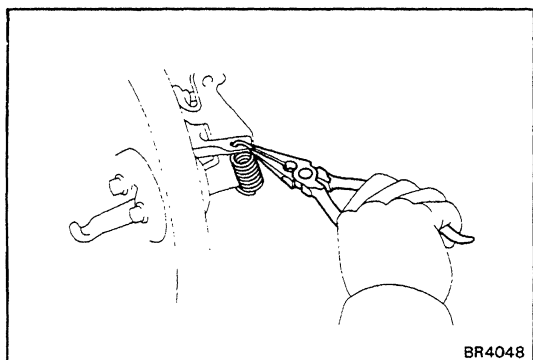
Remove the following parts from the wheel cylinder.

- Two boots
- Two pistons
- Two piston cups
- Spring

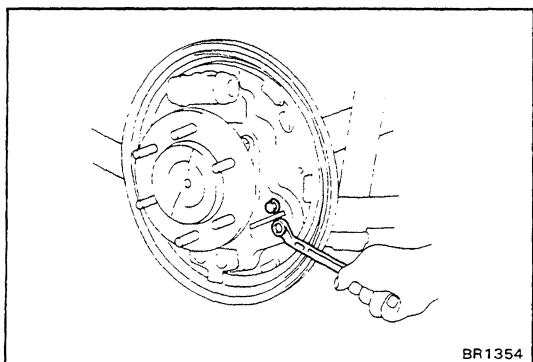


7. IF NECESSARY, REMOVE AND DISASSEMBLE PARKING BRAKE BELLCRANK ASSEMBLY

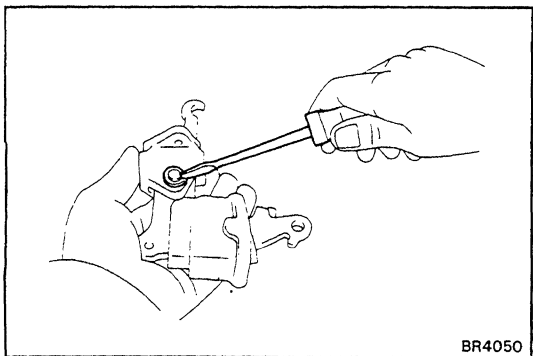
- (a) Remove the clip.
- (b) Remove the pin and wave washer, then disconnect the parking brake cable.



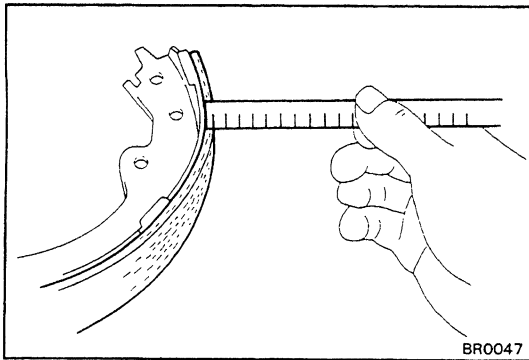
- (c) Remove the two tension springs.



- (d) Remove the two bolts and parking brake bellcrank assembly.
- (e) Remove the boot from the parking brake bellcrank assembly.



- (f) Using a screwdriver, remove the C-washer and pin.
- (g) Remove the parking brake bellcrank from the crank bracket.
- (h) Remove the boot.



INSPECTION OF REAR BRAKE COMPONENTS

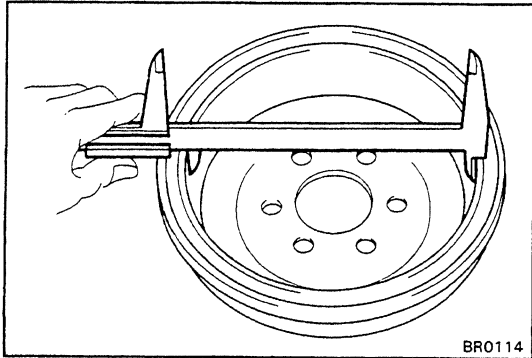
1. MEASURE BRAKE SHOE LINING THICKNESS

Minimum thickness: 1.5 mm (0.059 in.)

Standard thickness: 6.5 mm (0.265 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 brake shoes in order to maintain even braking.

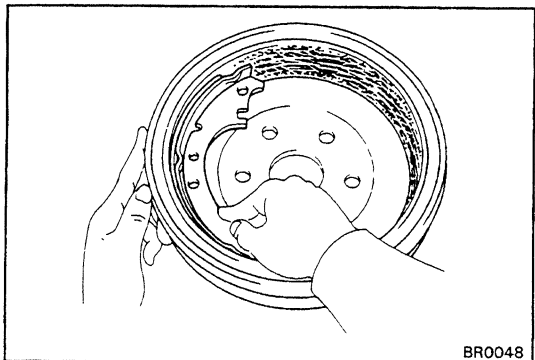


2. MEASURE BRAKE DRUM INSIDE DIAMETER

Maximum inside diameter: 297 mm (11.693 in.)

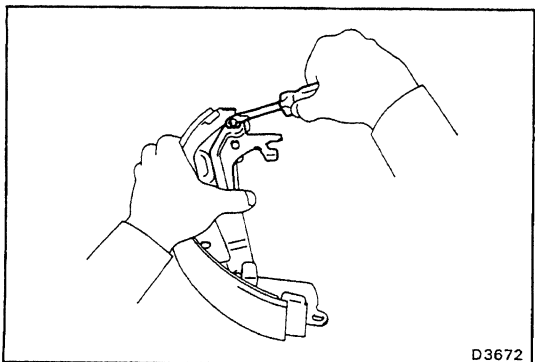
Standard inside diameter: 295 mm (11.614 in.)

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



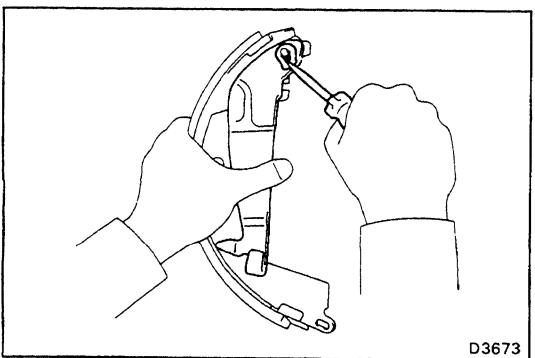
3. INSPECT BRAKE LINING AND DRUM FOR PROPER CONTACT

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

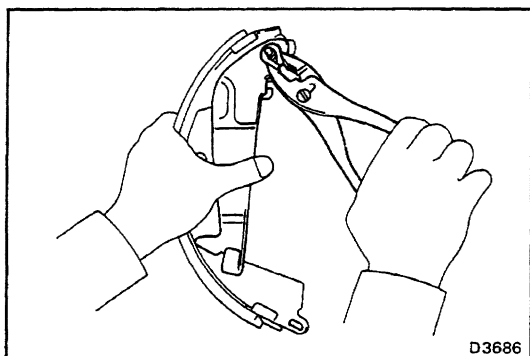


4. IF NECESSARY, REPLACE BRAKE SHOES

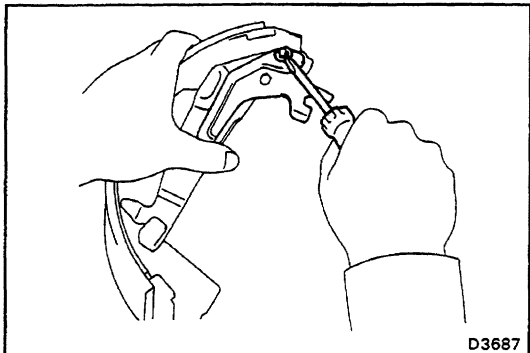
(a) Using a screwdriver, remove the automatic adjusting lever from the front shoe.



(b) Using a screwdriver, remove the parking brake shoe lever from the front shoe.



(c) Using pliers, install the parking brake shoe lever with a new C-washer.



(d) Install the automatic adjusting lever with a new E-ring.

5. INSPECT WHEEL CYLINDER FOR CORROSION OR DAMAGE

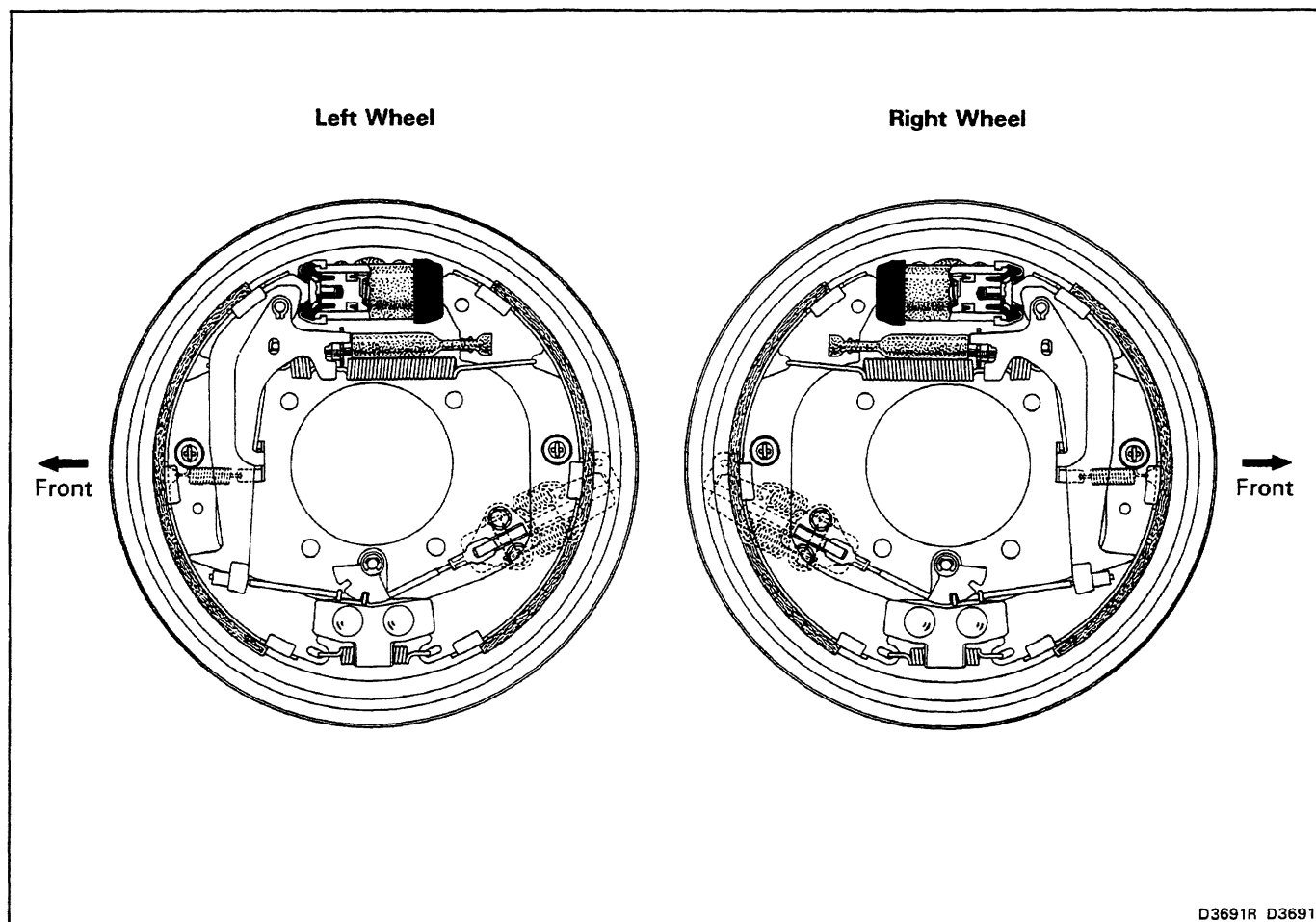
6. INSPECT BACKING PLATE FOR WEAR OR DAMAGE

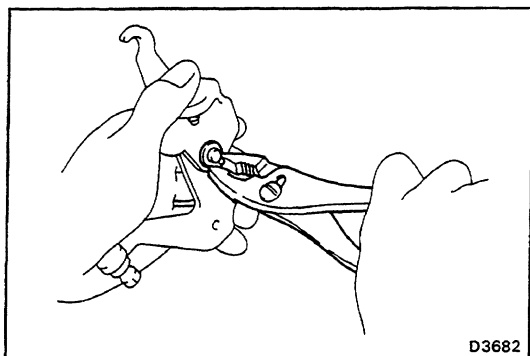
7. INSPECT BELLCRANK PARTS FOR BENDING, WEAR OR DAMAGE

ASSEMBLY OF REAR BRAKE

(See page [BR-26](#))

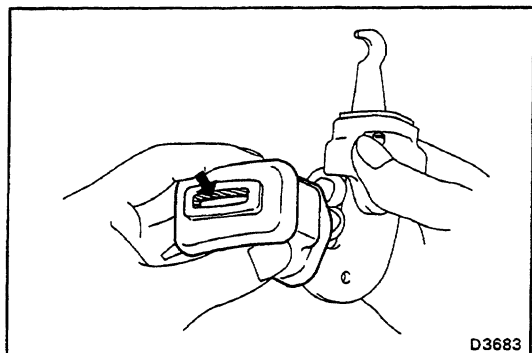
HINT: Assemble the parts in the correct direction as shown.



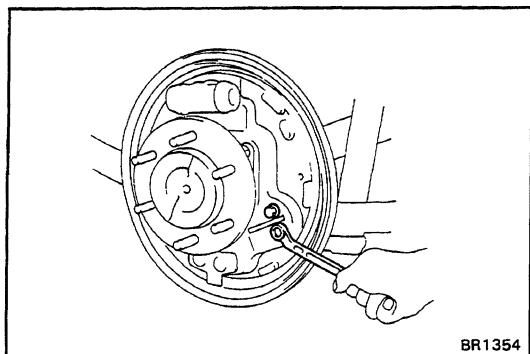


1. IF NECESSARY, ASSEMBLE AND INSTALL PARKING BRAKE BELLCRANK ASSEMBLY

- (a) Install the parking brake bellcrank to the crank bracket.
- (b) Install the pin and secure it with a new C-washer.

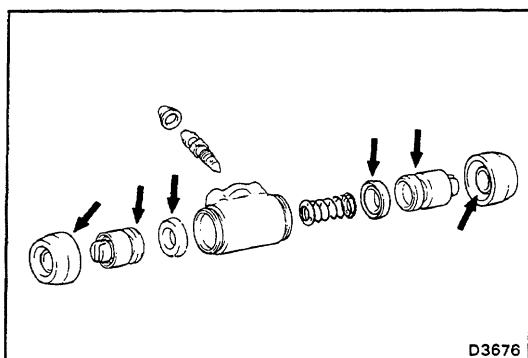


- (c) Apply lithium soap base glycol grease to the boot.
- (d) Install the boot to the parking brake bellcrank.



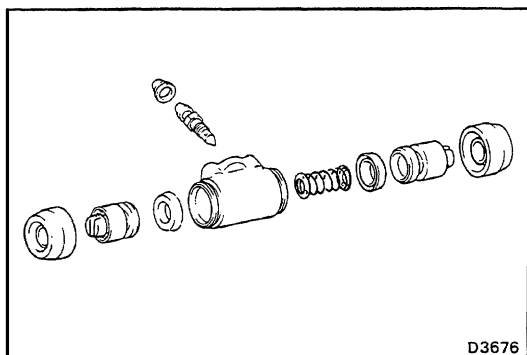
- (e) Install the parking brake bellcrank assembly on the backing plate with two bolts.
- (f) Torque the bolts.

Torque: 130 kg-cm (9 ft-lb, 13 N-m)



2. IF NECESSARY, ASSEMBLE AND INSTALL WHEEL CYLINDER

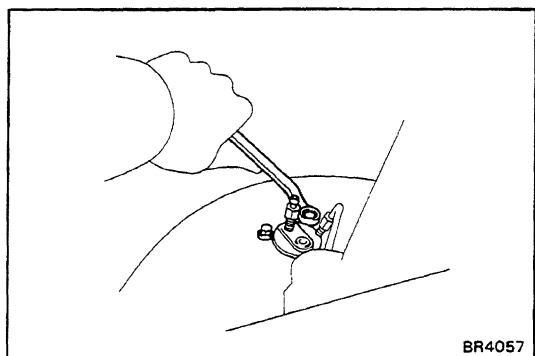
- (a) Apply lithium soap base glycol grease to the boots, piston cups and pistons.



- (b) Install the spring and two piston cups in the wheel cylinder.

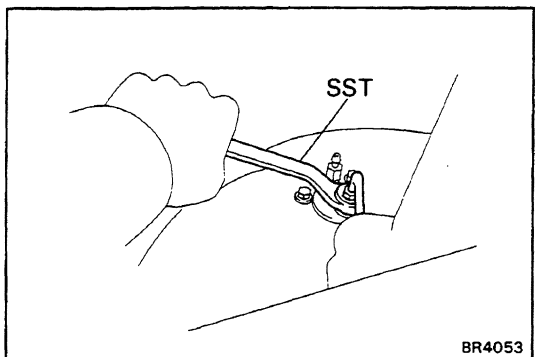
HINT: Make sure the flanges of the cups are pointed inward.

- (c) Install the two pistons, boots into the cylinder.



(d) Install the wheel cylinder on the backing plate with two bolts.

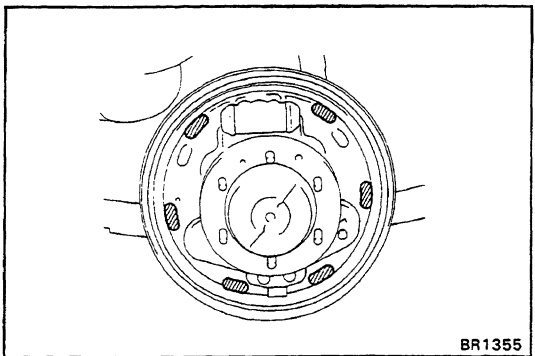
Torque: 100 kg-cm (7 ft-lb, 10 N-m)



(e) Using SST, connect the brake tube.

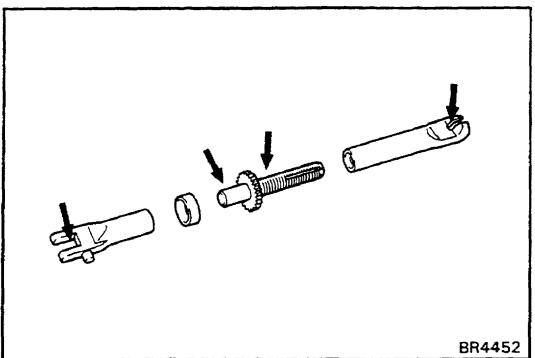
SST 09751-36011

Torque: 155 kg-cm (11 ft-lb, 15 N-m)



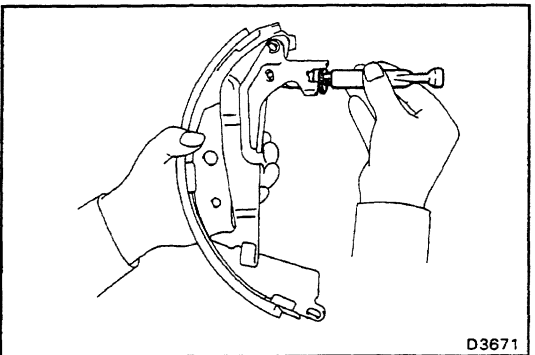
3. APPLY HIGH TEMPERATURE GREASE TO BACKING PLATE AS SHOWN

Apply high temperature grease to the sliding surfaces of the shoe.



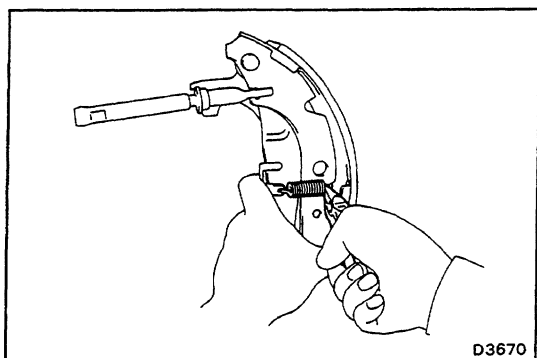
4. APPLY HIGH TEMPERATURE GREASE TO ADJUSTER

Apply high temperature grease to the adjuster bolt threads and ends.

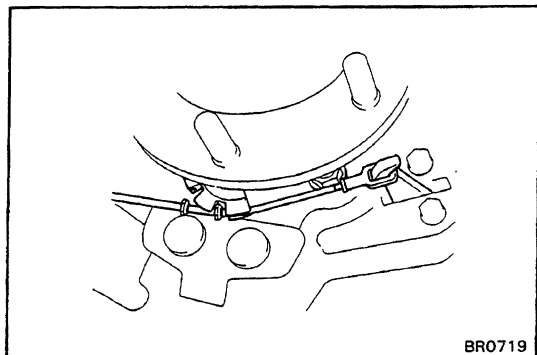


5. INSTALL ADJUSTER TO FRONT SHOE

(a) Install the adjuster to the adjusting lever.

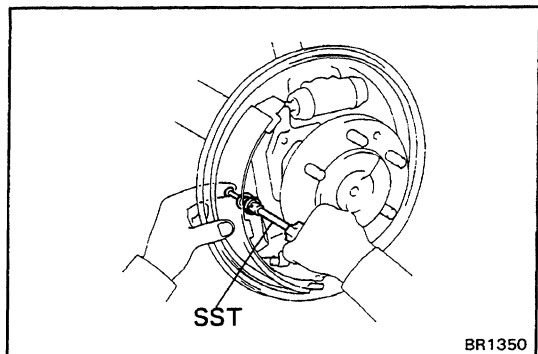


(b) Install the adjusting lever spring.

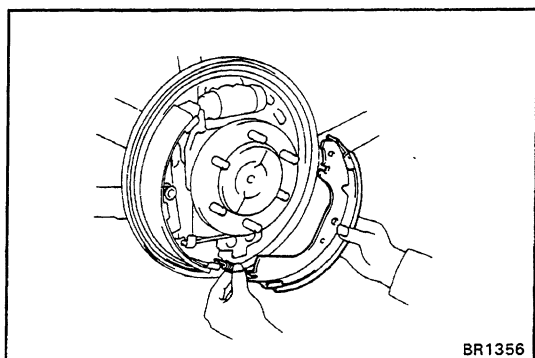


6. INSTALL FRONT SHOE

- (a) Install the parking brake cable to the parking brake shoe lever.
- (b) Install the parking brake cable to the bellcrank as shown.

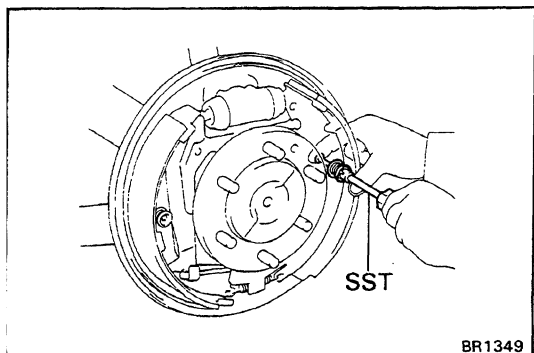


- (c) Set the front shoe in place with the end of the shoe inserted in the piston.
 - (d) Using SST, install the shoe hold-down spring, two cups and a pin.
- SST 09718-00010

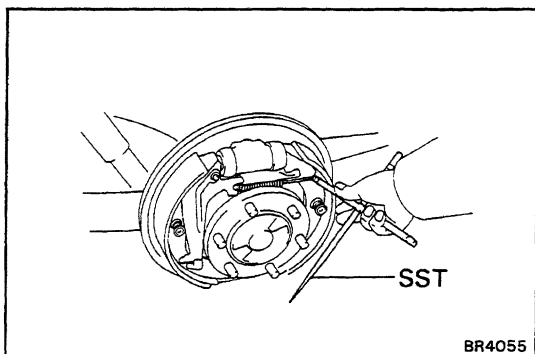


7. INSTALL REAR SHOE

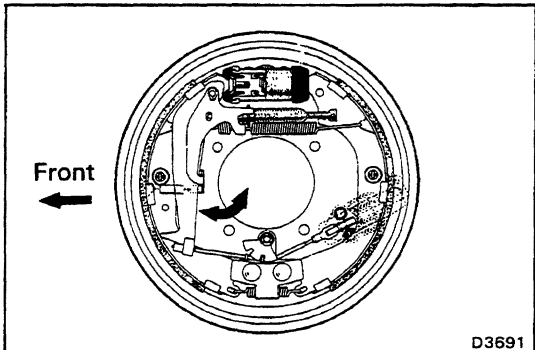
- (a) Install the anchor spring between the front shoe and rear shoe.



- (b) Set the rear shoe in place with the end of the shoe inserted in the piston.
 - (c) Using SST, install the shoe hold-down spring, two cups and a pin.
- SST 09718-00010

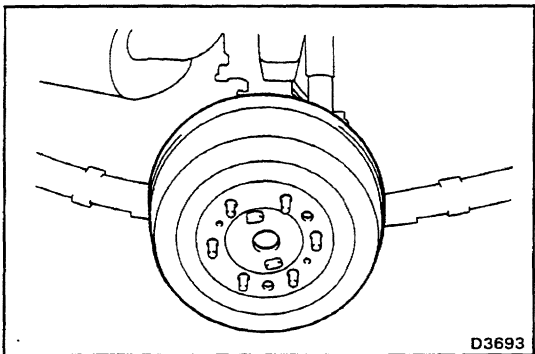


(d) Using SST, install the return spring.
SST 09703-30010



8. CHECK OPERATION OF AUTOMATIC ADJUSTER MECHANISM

(a) Pull the parking brake cable backward as shown, and release. Check that the adjusting bolt turns. If the bolt does not turn, check for incorrect installation of the rear brakes.



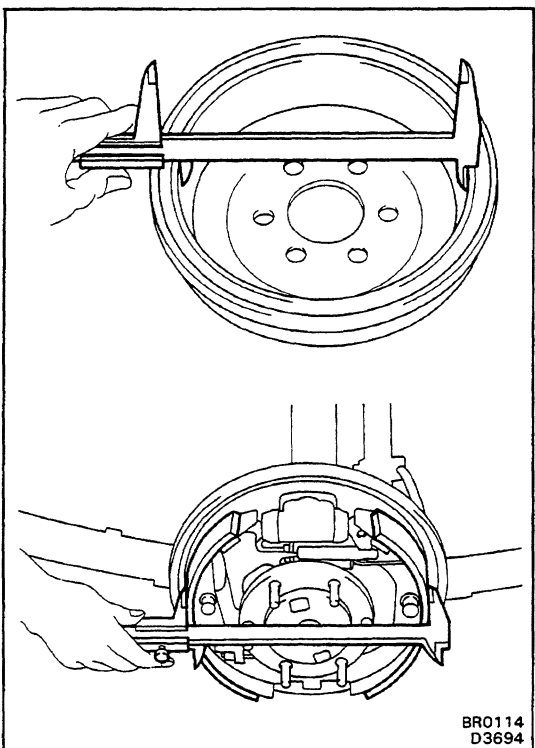
- (b) Adjust the adjuster to the shortest possible length.
- (c) Install the drum.
- (d) Connect the parking brake cable to the bellcrank assembly with the pin, wave washer and clip.
- (e) Pull the parking brake lever all the way up and down until a clicking sound can no longer be heard.

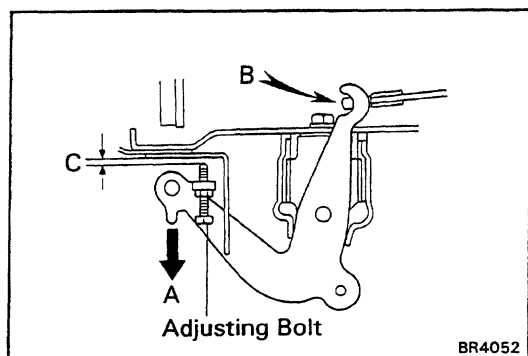
9. CHECK CLEARANCE BETWEEN BRAKE SHOES AND DRUM

- (a) Remove the brake drum.
- (b) Measure the brake drum inside diameter and diameter of the brake shoes. Check that the difference between the diameter is correct shoe clearance.

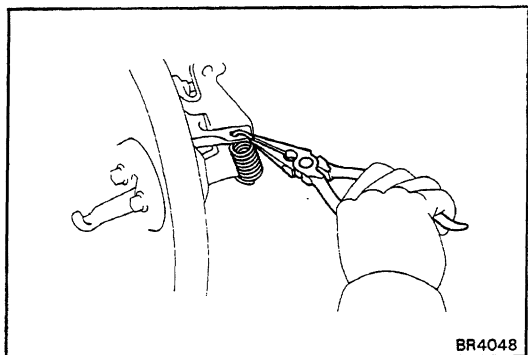
Shoe clearance: 0.6 mm (0.024 in.)

If incorrect, check the parking brake system.



**10. IF NECESSARY, ADJUST BELL CRANK**

- (a) Lightly pull bellcrank in direction A until there is no slack at part B.
- (b) In this condition, turn the adjusting bolt so that dimension C will be 0.4 – 0.8 mm (0.016 – 0.031 in.).
- (c) Lock the adjust bolt with the lock nut.



- (d) Connect the No. 2 parking brake cable to the bell-crank.
- (e) Install the two tension springs.

11. INSTALL BRAKE DRUM AND REAR WHEEL**12. FILL BRAKE RESERVOIR WITH BRAKE FLUID AND BLEED BRAKE SYSTEM**

(See page [BR-7](#))

13. CHECK FOR FLUID LEAKAGE