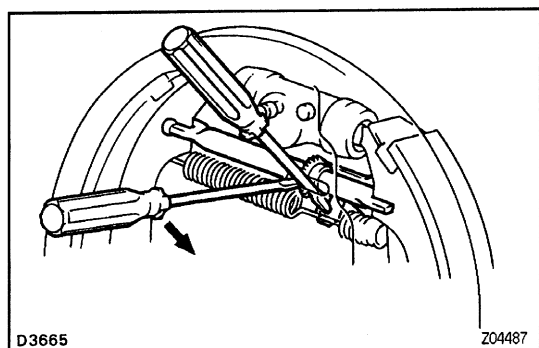
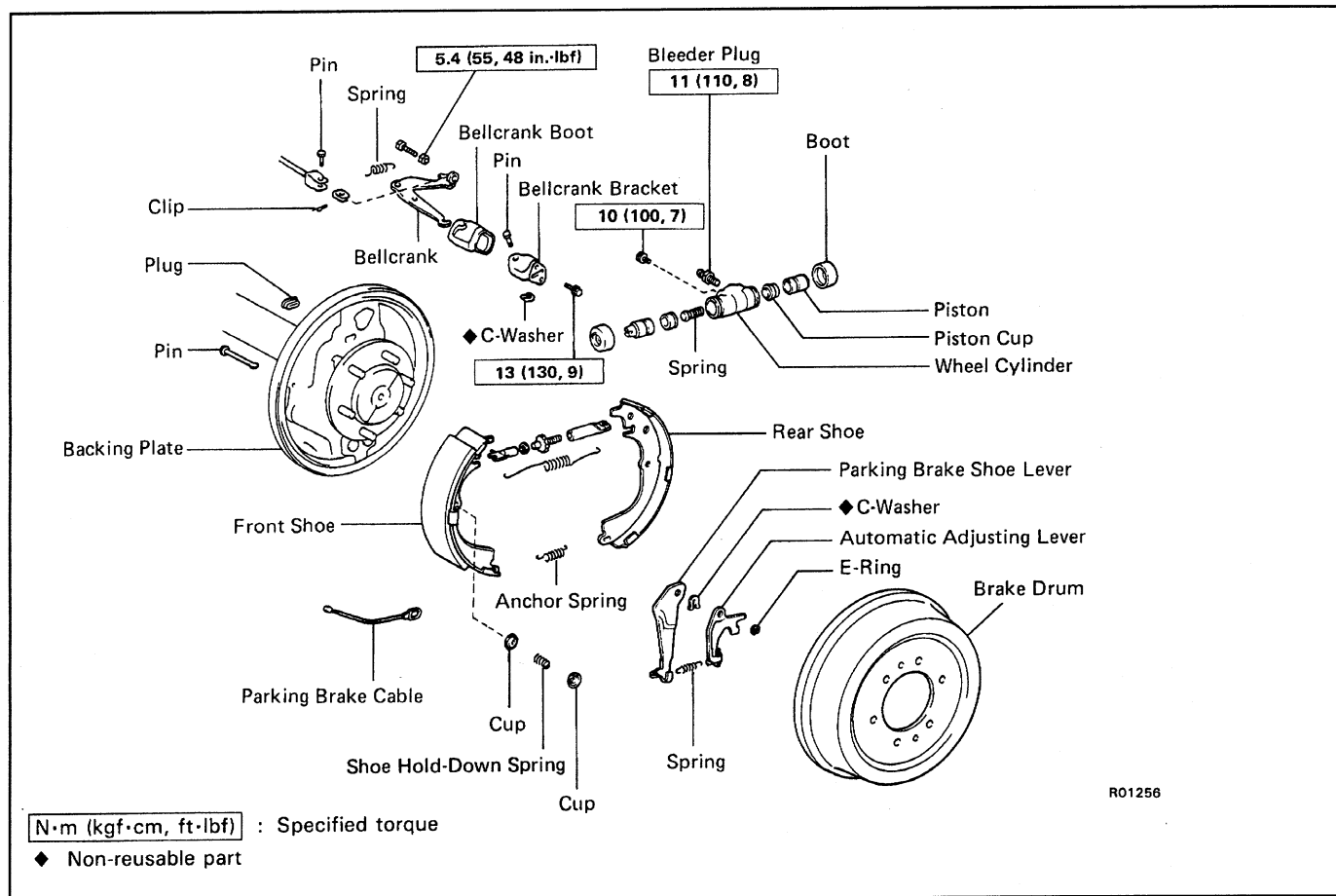


REAR BRAKE (Drum Brake) COMPONENTS

BR01W-04



REAR DRUM BRAKE REMOVAL

1. REMOVE REAR WHEEL

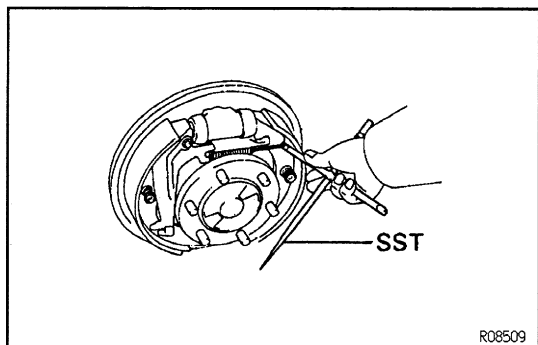
2. REMOVE BRAKE DRUM

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

(a) Insert screwdriver through the hole in the backing plate, and hold the automatic adjusting lever away from the adjuster.

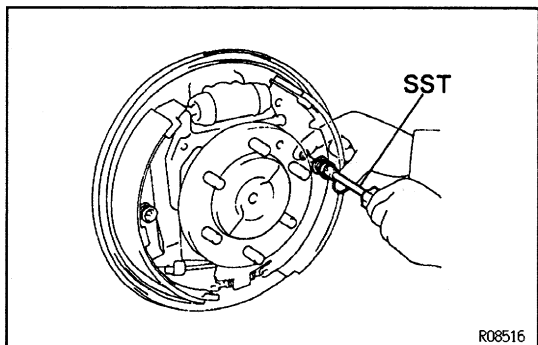
(b) Using a screwdriver, reduce the brake shoe adjustment by turning the adjuster.

BR0FW-02

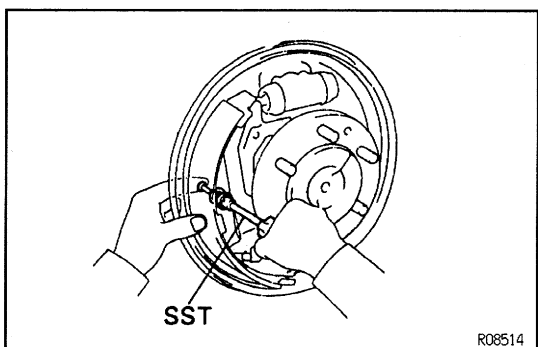


3. REMOVE REAR SHOE

- (a) Using SST, disconnect the return spring.
SST 09703-30010

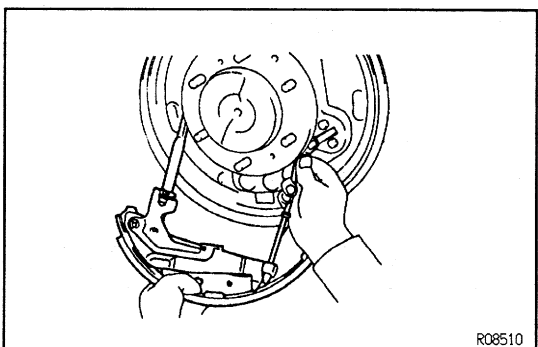


- (b) Using SST, remove the shoe hold-down spring, cups and pin.
SST 09718-00010
(c) Remove the rear brake shoe and anchor spring.

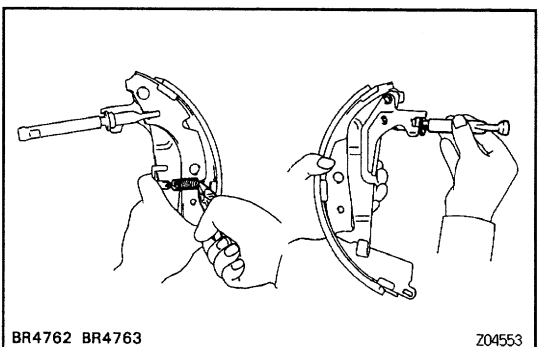


4. REMOVE FRONT SHOE

- (a) Using SST, remove the shoe hold-down spring, cups and pin.
SST 09718-00010

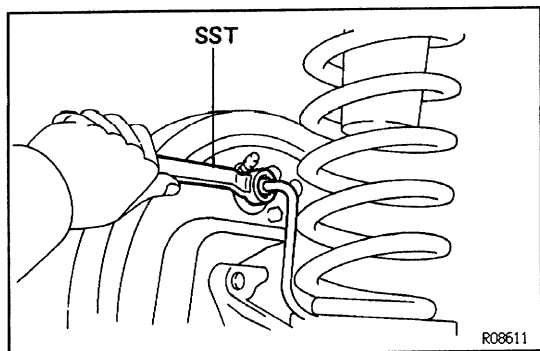


- (b) Disconnect the parking brake cable from the parking brake bellcrank.
(c) Remove the front shoe with the adjuster.
(d) Disconnect the parking brake cable from the front shoe.



5. REMOVE ADJUSTER FROM FRONT SHOE

- (a) Remove the adjusting lever spring.
(b) Remove the adjuster.



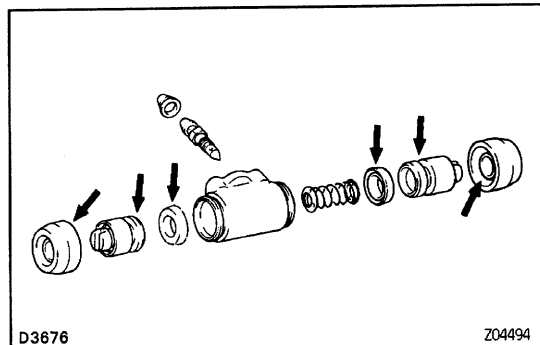
R08611

6. IF NECESSARY, REMOVE WHEEL CYLINDER

(a) Using SST, disconnect the brake line.

SST 09751-36011

(b) Remove the 2 bolts and the wheel cylinder.



D3676

Z04494

7. DISASSEMBLE WHEEL CYLINDER

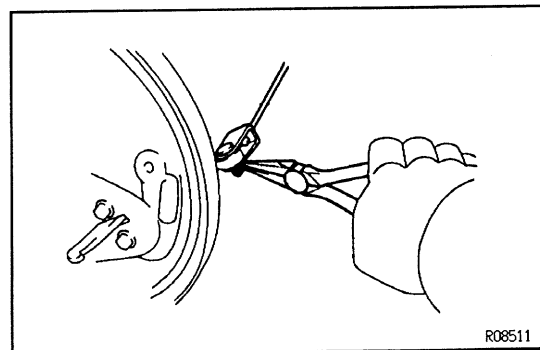
Remove the following parts from the wheel cylinder.

2 boots

2 pistons

2 piston cups

Spring

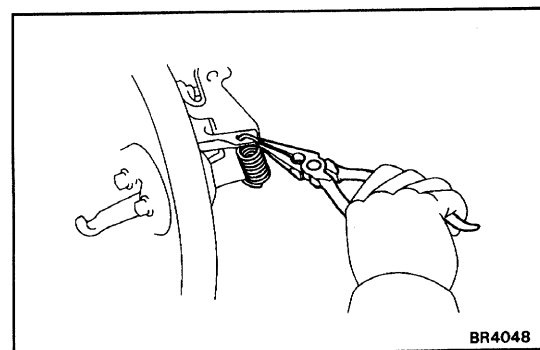


R08511

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

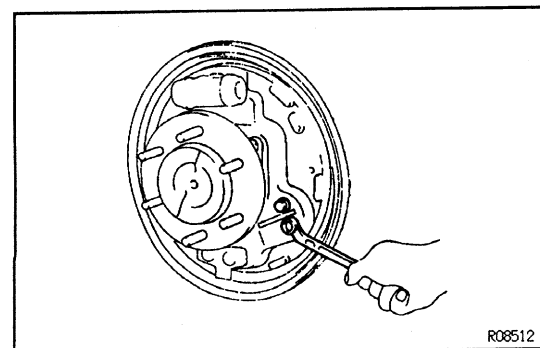
(a) Remove the clip.

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



BR4048

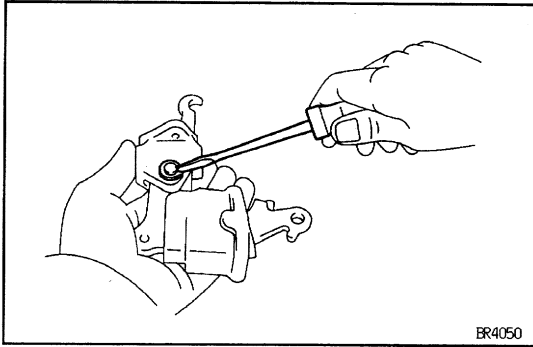
(c) Remove the 2 tension springs.



R08512

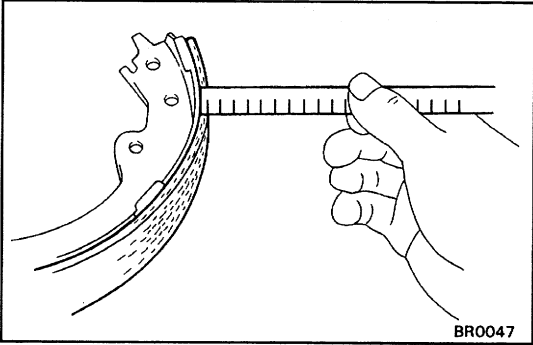
(d) Remove the 2 bolts and parking brake bellcrank assembly.

(e) Remove the boot from the parking brake bellcrank bracket.



BR4050

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



BR0047

REAR DRUM BRAKE COMPONENTS^{PROFX-01} INSPECTION AND REPAIR

7. MEASURE BRAKE SHOE LINING THICKNESS

Standard thickness:

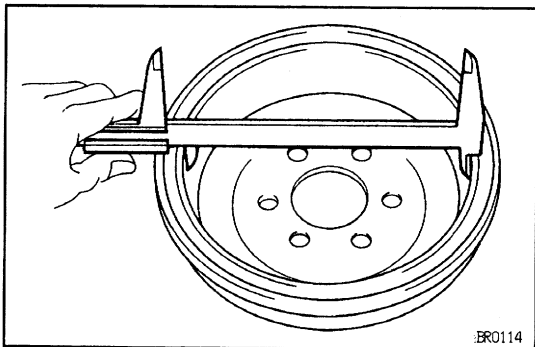
6.5 mm (0.256 in.)

Minimum thickness:

1.5 mm (0.059 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 rear shoes in order to maintain even braking.



BR0114

2. MEASURE BRAKE DRUM INSIDE DIAMETER

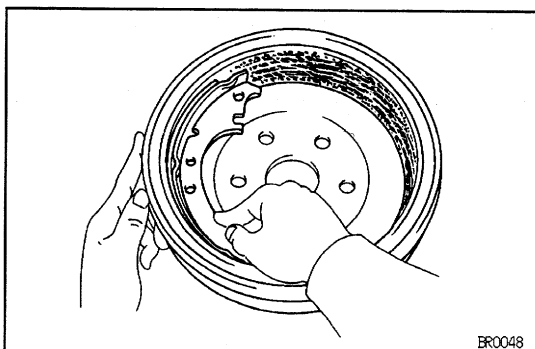
Standard inside diameter:

295.0 mm (11.614 in.)

Maximum inside diameter:

297.0 mm (11.693 in.)

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

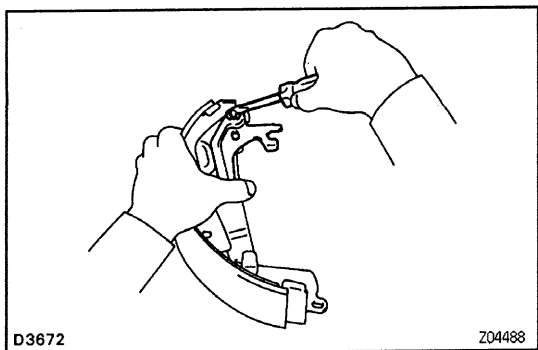


BR0048

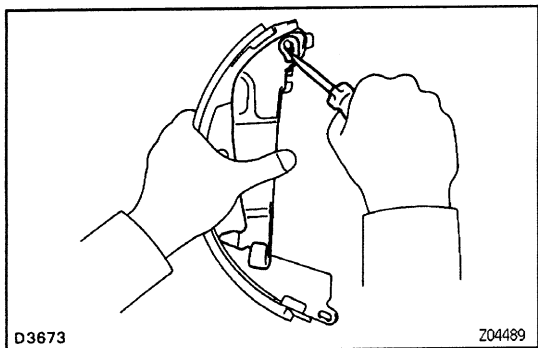
3. INSPECT REAR BRAKE LINING AND DRUM FOR PROPER CONTACT

Apply chalk to the inside surface of the drum, then grind down the brake shoe lining to fit.

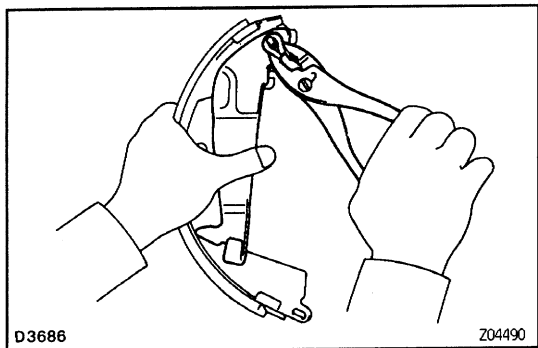
If the contact between the brake lining and drum is improper, repair the lining with a brake shoe grinder, or replace the brake shoe assembly.

**4. IF NECESSARY, REPLACE BRAKE SHOES**

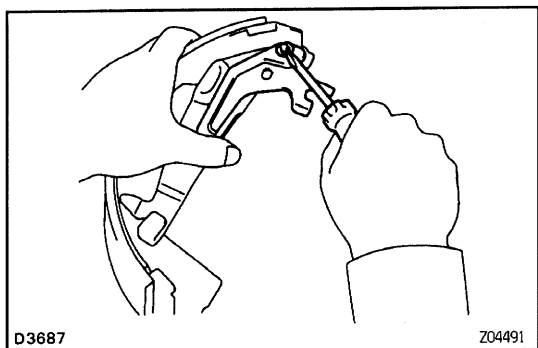
- (a) Using a screwdriver, remove the automatic adjusting lever from the front shoe.



- (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.

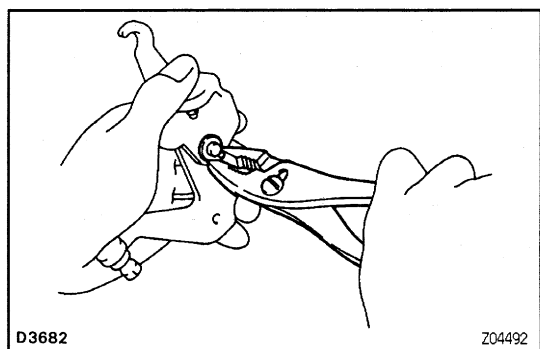
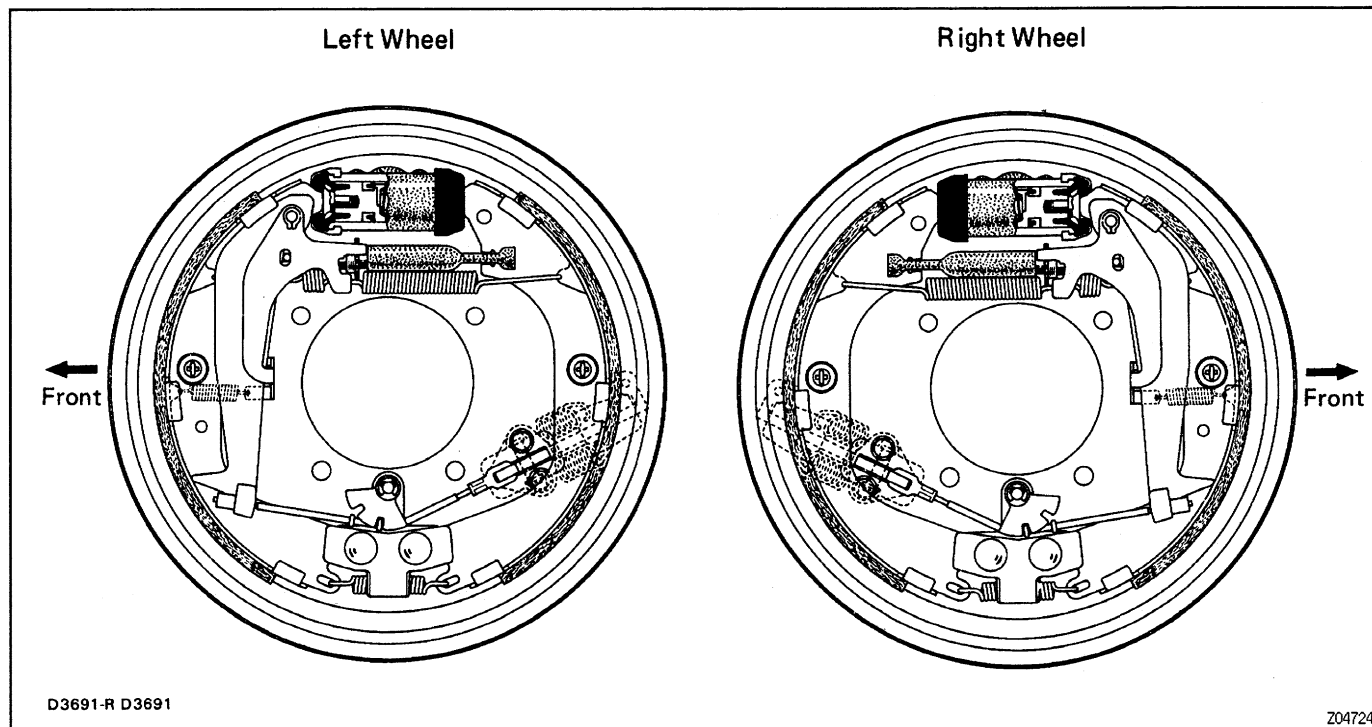


- (d) Install the automatic adjusting lever with the E-ring.

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**

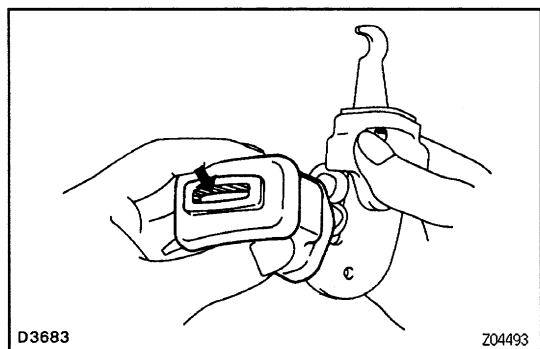
REAR DRUM BRAKE INSTALLATION

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

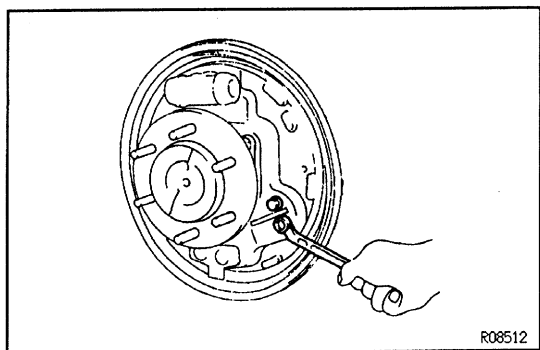


1. IF NECESSARY, ASSEMBLE AND INSTALL PARKING BRAKE BELLCRANK ASSEMBLY

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



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



R08512

(e) Install the parking brake bellcrank assembly on the backing plate with the 2 bolts.

(f) Torque the bolts.

Torque: 13 N-m (130 kgf-cm, 9 ft-lbf)

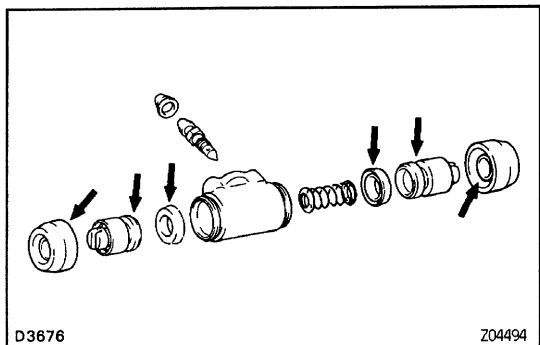
2. ASSEMBLE WHEEL CYLINDER

(a) Apply lithium soap base glycol grease to the cups and pistons.

(b) Assemble the wheel cylinder.

HINT: Install in proper direction only.

- Spring
- 2 cups
- 2 pistons
- 2 boots



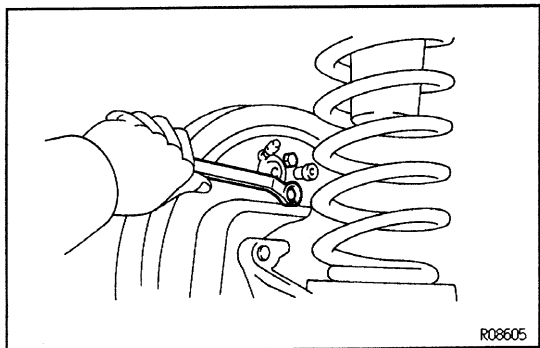
D3676

Z04494

3. INSTALL WHEEL CYLINDER

Install the wheel cylinder on the backing plate with the 2 bolts.

Torque: 10 N-m (100 kgf-cm, 7 ft-lbf)



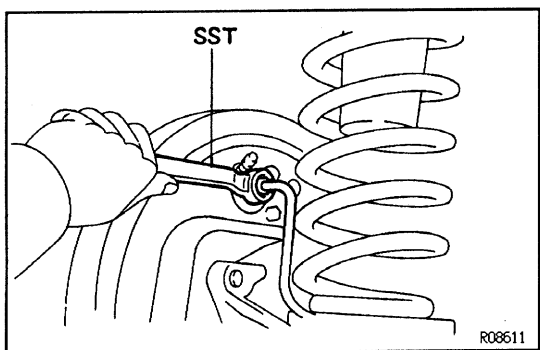
R08605

4. CONNECT BRAKE LINE TO WHEEL CYLINDER

Using SST, connect the brake line.

SST 09751 - 36011

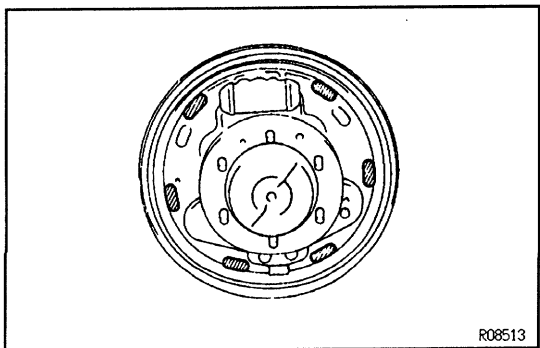
Torque: 15 N-m (155 kgf-cm, 11 ft-lbf)



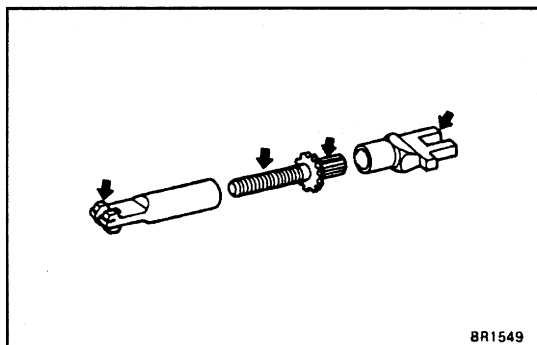
R08611

5. APPLY HIGH TEMPERATURE GREASE TO BACK-ING PLATE AND ADJUSTER

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



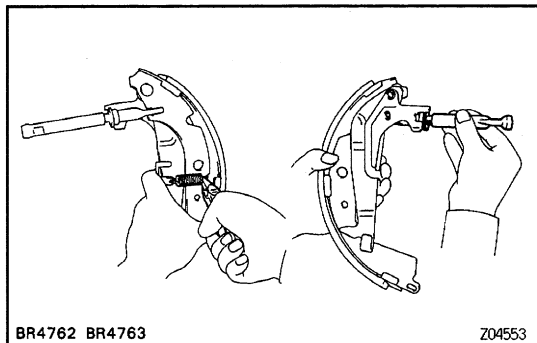
R08513



- (b) Apply high temperature grease to the adjuster bolt threads and ends.

6. INSTALL ADJUSTER ONTO FRONT SHOE

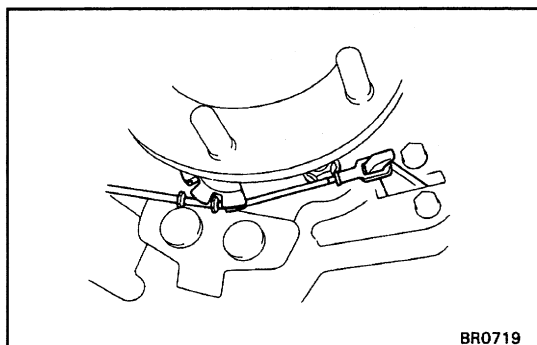
Set the adjuster and return spring in place and install the adjusting lever spring.



7. INSTALL FRONT SHOE

- (a) Install the parking brake cable to the parking brake shoe lever.

- (b) Install the parking cable to the bellcrank, as shown.

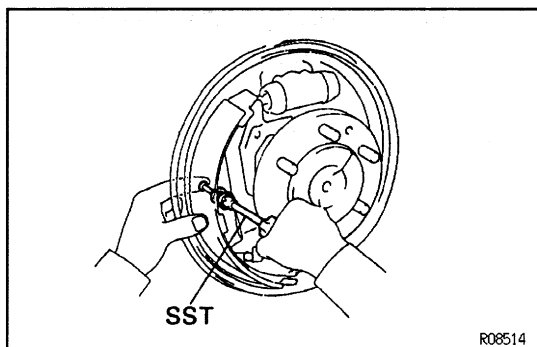


- (c) Set the front shoe in place with the end of the shoe inserted in the piston.

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

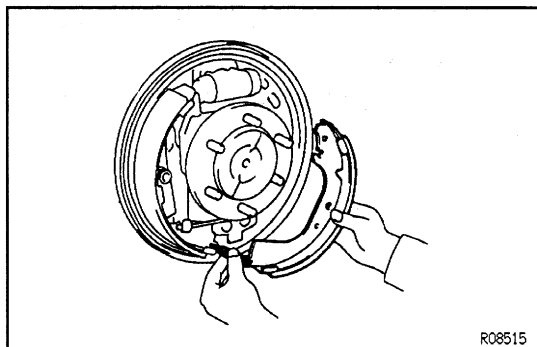
SST 09718-00010

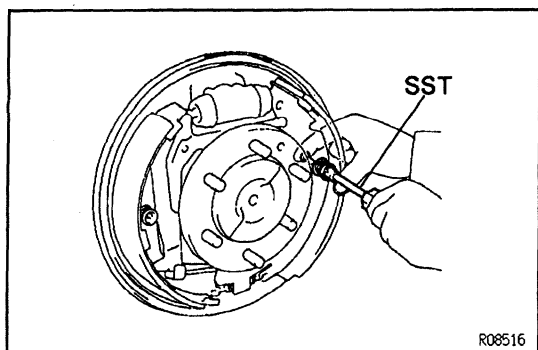
NOTICE: Do not allow oil or grease to get on the rubbing face.



8. INSTALL REAR SHOE

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



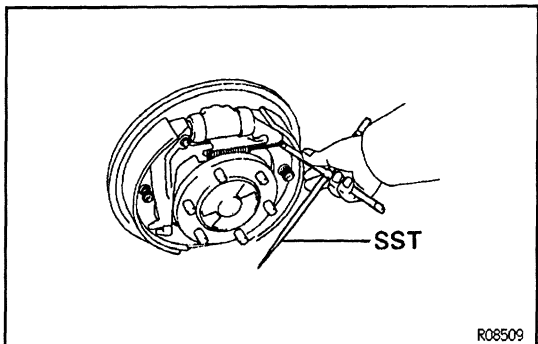


(b) Set the rear shoe in place with the end of the shoe inserted in the piston.

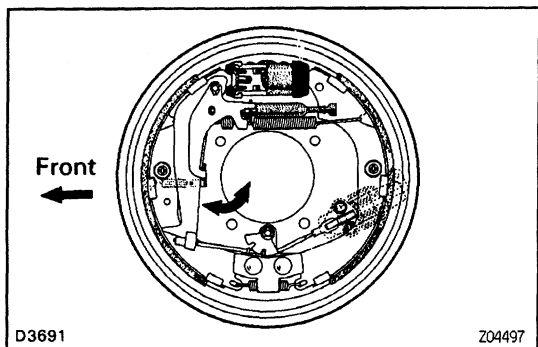
(c) Using SST, install the shoe hold-down spring, cups and pin.

SST 09718-00010

NOTICE: Do not allow oil or grease to get on the rubbing face.



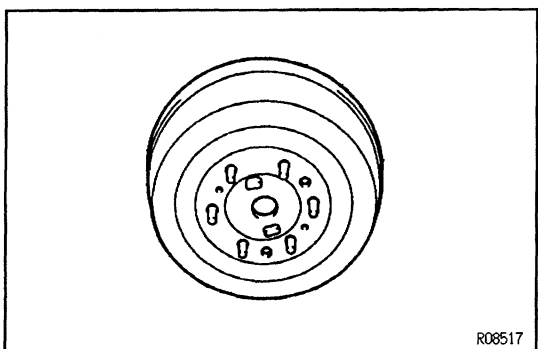
(d) Using SST, connect the return spring.
SST 09703-30010



9. CHECK OPERATION OF AUTOMATIC ADJUSTING 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.

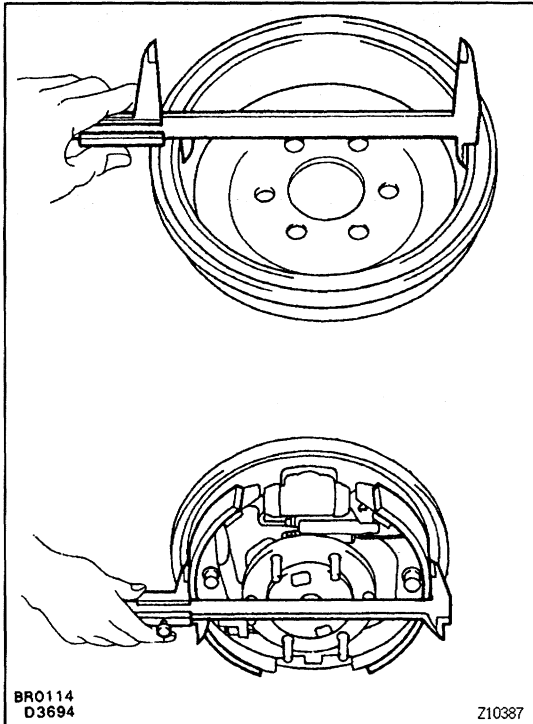


(b) Adjust the adjuster to the shortest possible length.

(c) Install the drum.

(d) Connect the No.2 parking brake cable to the bellcrank.

(e) Pull the parking brake lever all the way up until a clicking sound can no longer be heard.



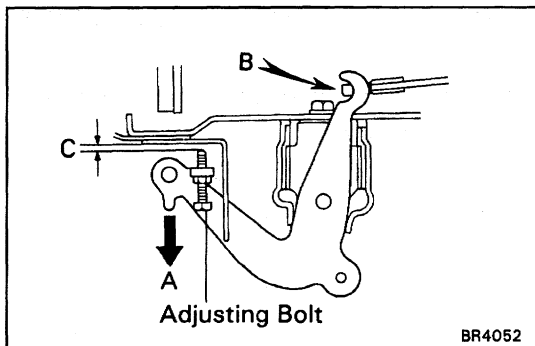
10. CHECK CLEARANCE BETWEEN BRAKE SHOES AND DRUM

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

Shoe clearance:

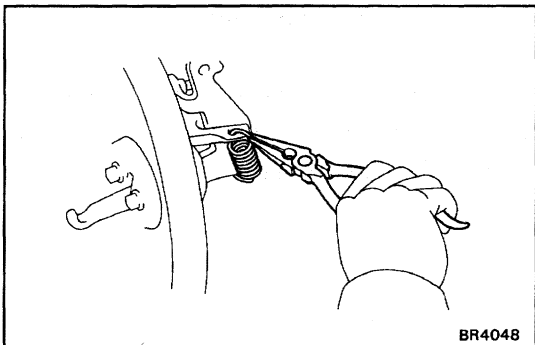
0.6 mm (0.024 in.)

If incorrect, check the parking brake system.



11. IF NECESSARY, ADJUST BELL CRANK

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



- Connect the NO. 2 parking brake cable to the bellcrank.
- Install the 2 tension springs.

12. INSTALL BRAKE DRUM

13. INSTALL REAR WHEEL

14. FILL BRAKE RESERVOIR WITH BRAKE FLUID AND BLEED BRAKE SYSTEM

(SEE PAGE [BR-8](#))

15. CHECK FOR LEAKS