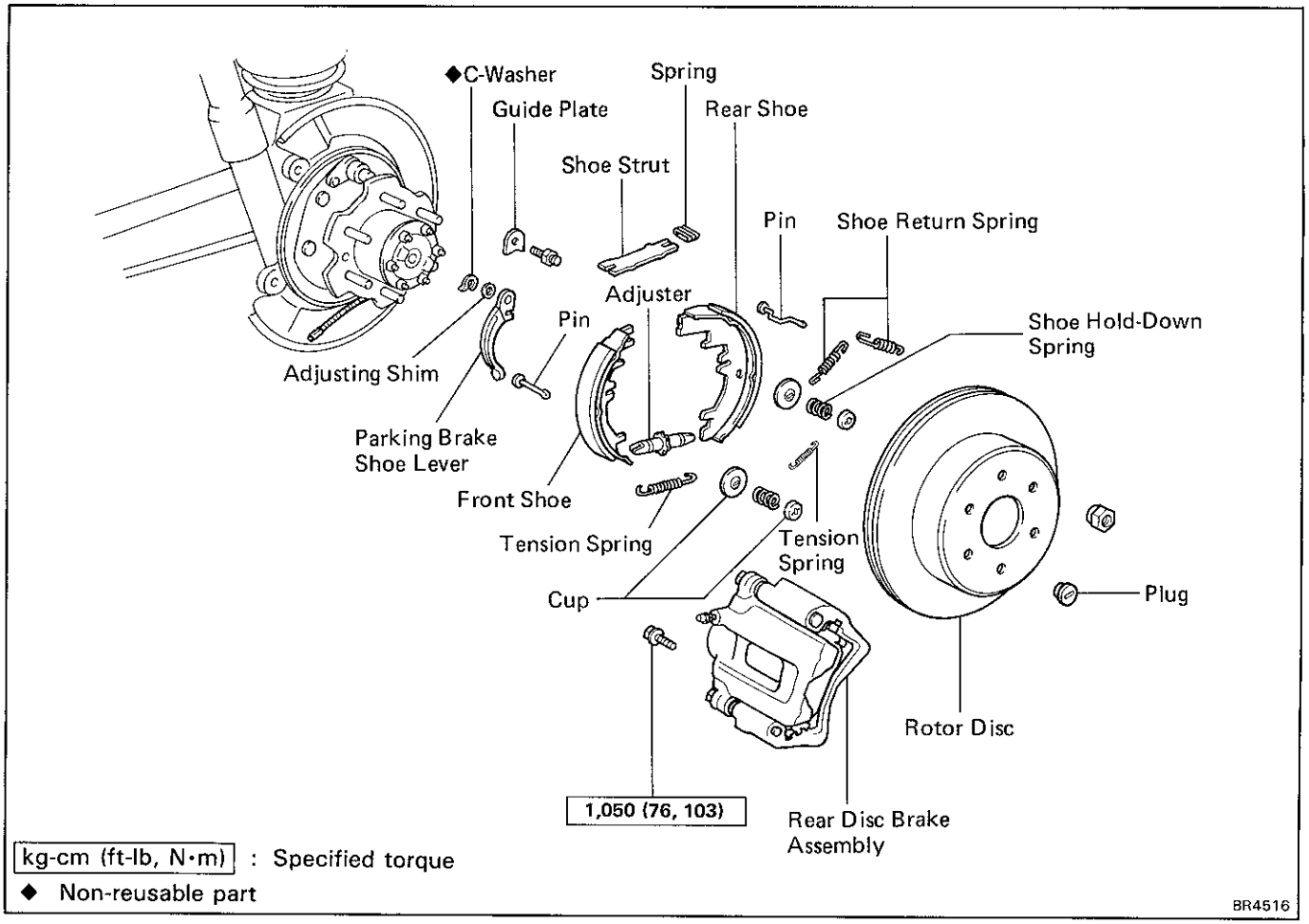
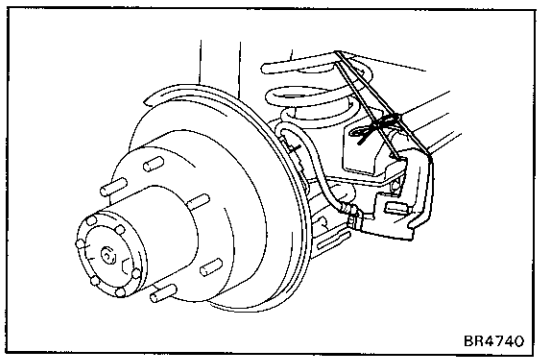
Parking Brake (w/ Rear Disc Brake)

COMPONENTS



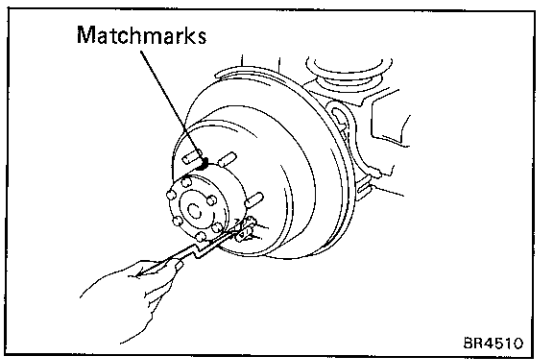


DISASSEMBLY OF PARKING BRAKE

1. REMOVE REAR DISC BRAKE ASSEMBLY

(a) Remove the two mounting bolts and remove the disc brake assembly.

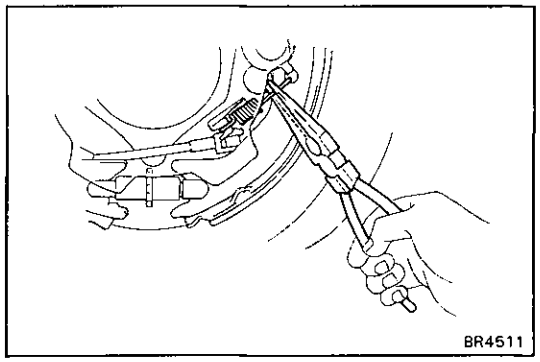
(b) Suspend the disc brake so the hose is not stretched.



2. REMOVE ROTOR DISC

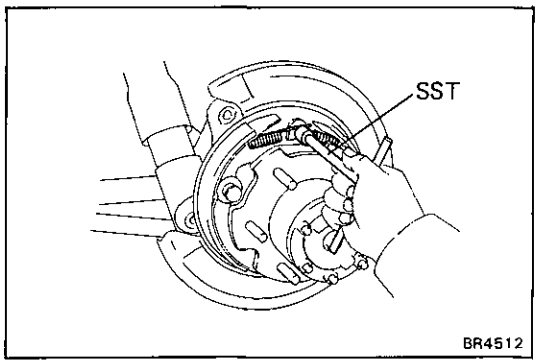
Place the matchmarks on the rotor disc and rear axle shaft, and remove the rotor disc.

HINT: If the drum cannot be removed easily, turn the shoe adjuster until the wheel turns freely.



3. REMOVE TENSION SPRING

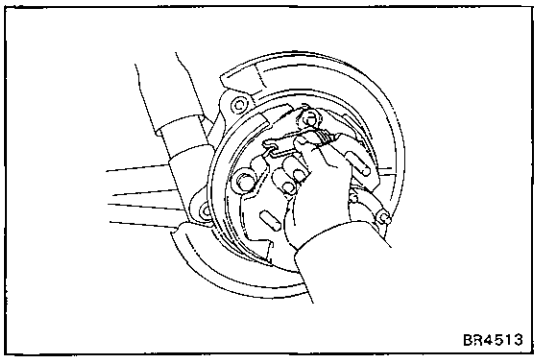
Using pliers, remove the tension spring.



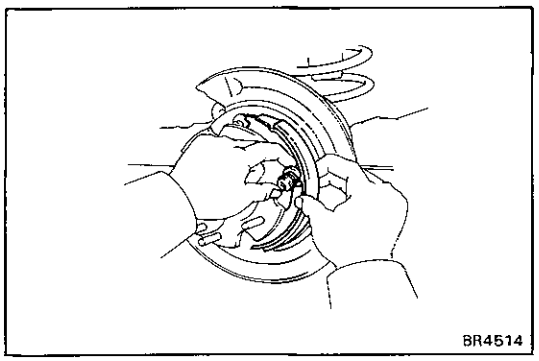
4. REMOVE SHOE RETURN SPRINGS

Using SST, remove the shoe return springs.

SST 09717-20010



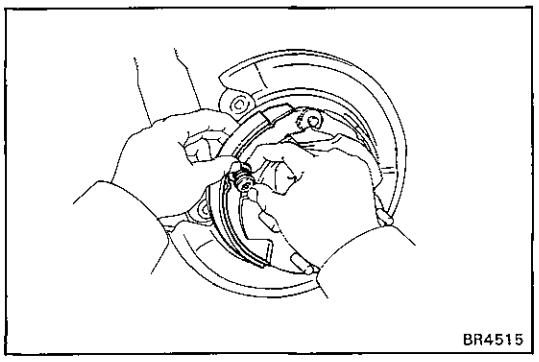
5. REMOVE SHOE STRUT WITH SPRING



6. REMOVE REAR SHOE, ADJUSTER AND TENSION SPRING

(a) Slide out the rear shoe, and remove the rear shoe and adjuster.

(b) Remove the lower side tension spring.

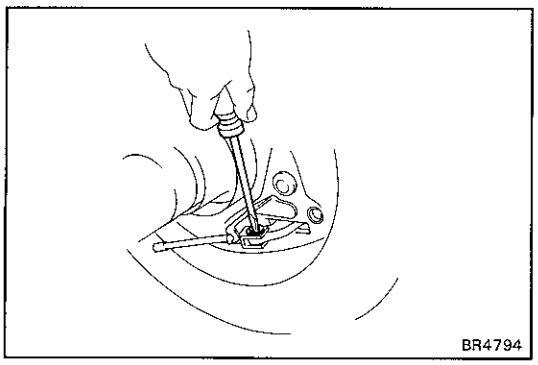


7. REMOVE FRONT SHOE

(a) Slide out the front shoe.

(b) Disconnect the parking brake cable from the parking brake shoe lever.

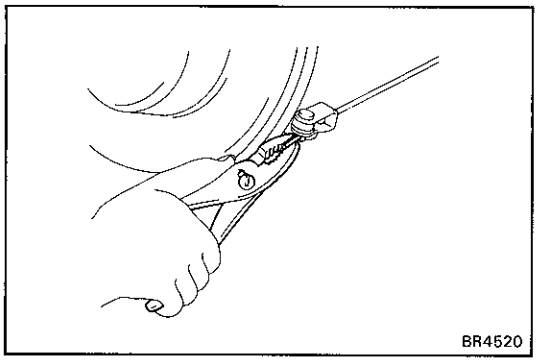
(c) Remove the cups, springs and pins.



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

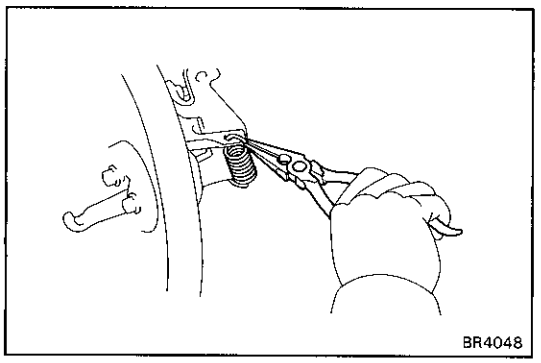
(a) Using a screwdriver, remove the C-washer.

(b) Remove the pin and disconnect the parking brake cable No. 2 from the bellcrank.

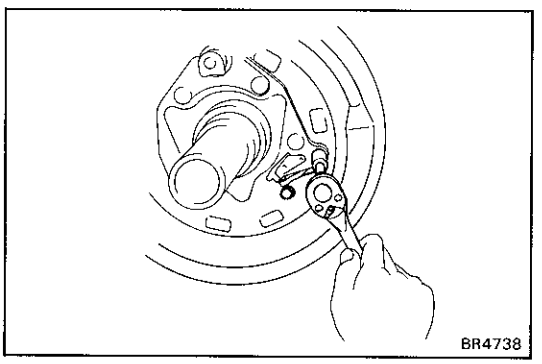


(c) Remove the clip.

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

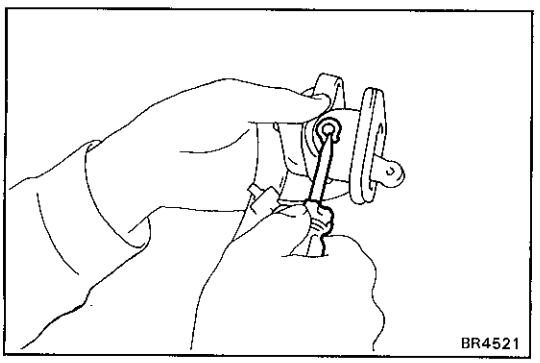


(e) Remove the two tension springs.



(f) Remove the two bolts and parking brake bellcrank assembly.

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



(h) Using a screwdriver, remove the C-washer and pin.

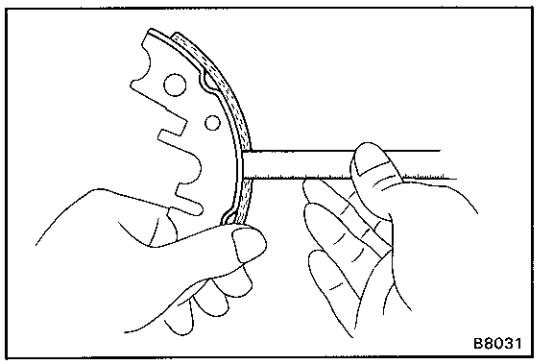
(i) Remove the parking brake bellcrank from the crank bracket.

(j) Remove the boot.

INSPECTION AND REPAIR OF PARKING BRAKE COMPONENTS

1. INSPECT DISASSEMBLED PARTS

Inspect the disassembled parts for wear, rust or damage.

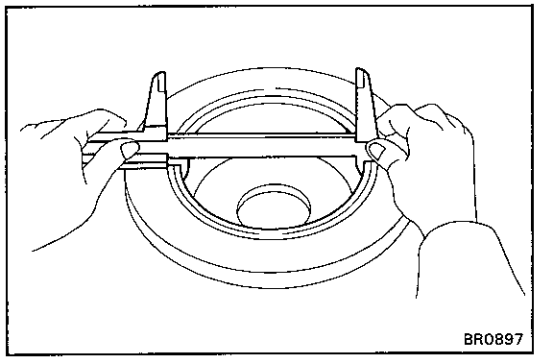


2. MEASURE BRAKE SHOE LINING THICKNESS

Minimum thickness: 1.0 mm (0.039 in.)

Standard thickness: 4.0 mm (0.157 in.)

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

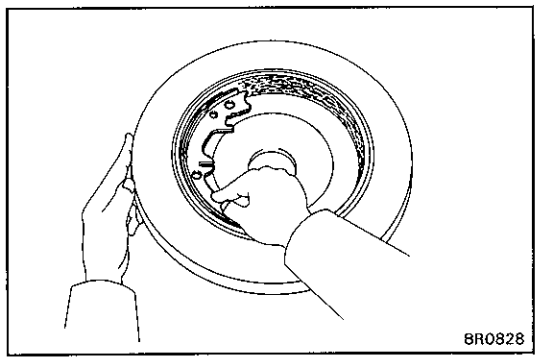


3. MEASURE BRAKE DISC INSIDE DIAMETER

Maximum inside diameter: 211 mm (8.31 in.)

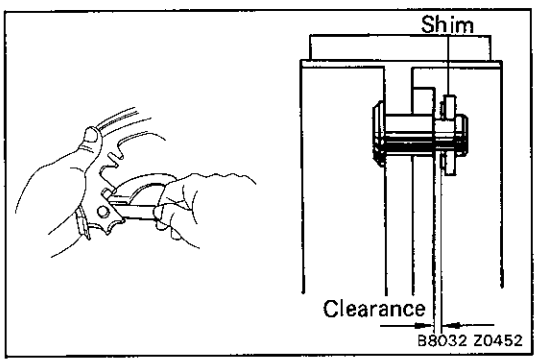
Standard inside diameter: 210 mm (8.27 in.)

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



4. INSPECT PARKING BRAKE SHOE LINING AND DISC FOR PROPER CONTACT

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



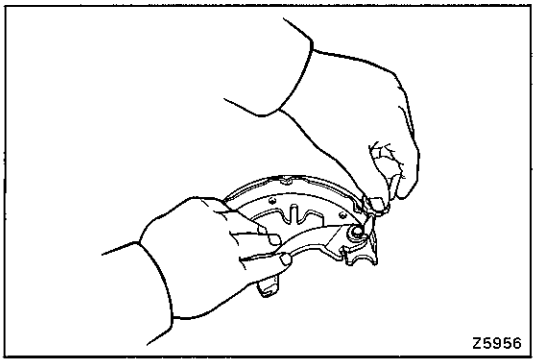
5. MEASURE CLEARANCE BETWEEN PARKING BRAKE SHOE AND LEVER

Using a feeler gauge, measure the clearance.

Standard clearance: Less than 0.35 mm (0.0138 in.)

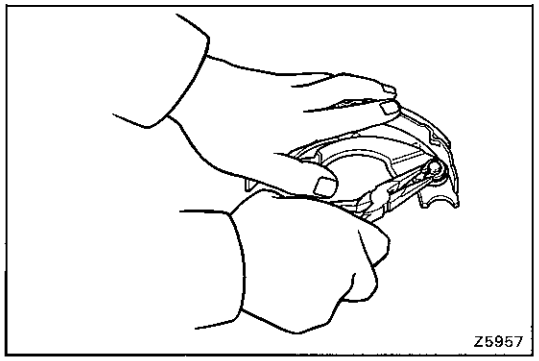
If the clearance is not within specification, replace the shim with one of the correct size.

Thickness mm (in.)	
0.3 (0.012) 0.6 (0.024)	0.9 (0.035)



6. IF NECESSARY, REPLACE SHIM

(a) Remove the parking brake shoe lever, and install the correct size shim.



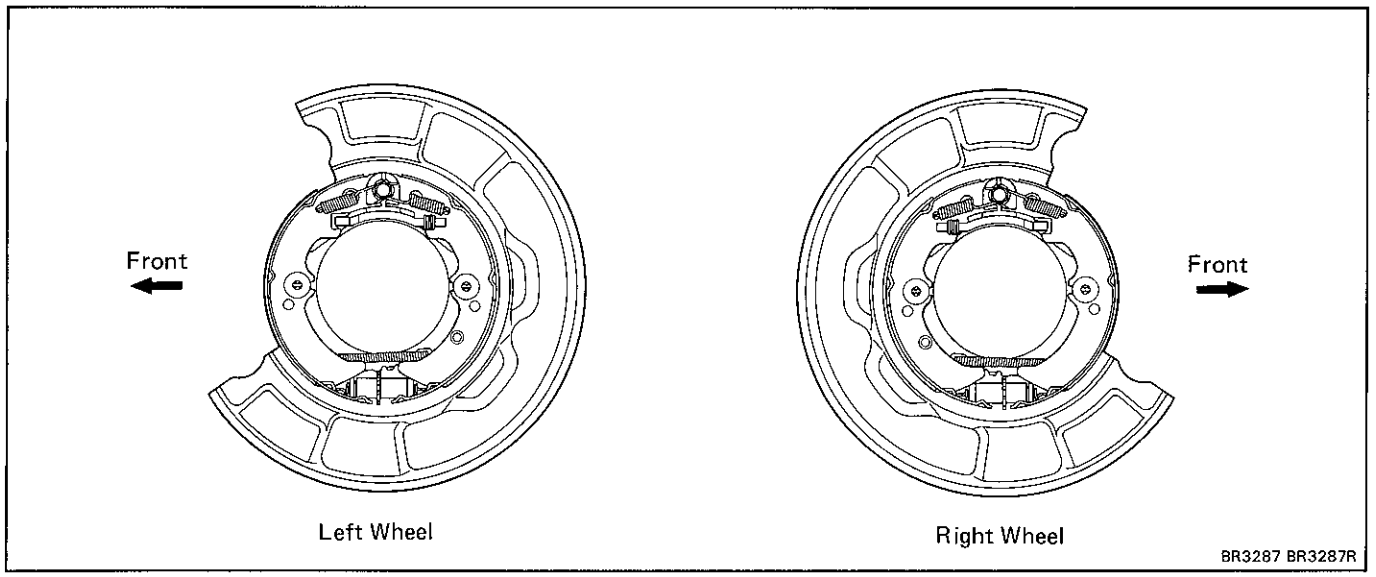
(b) Install the parking brake shoe lever with a new C-washer.

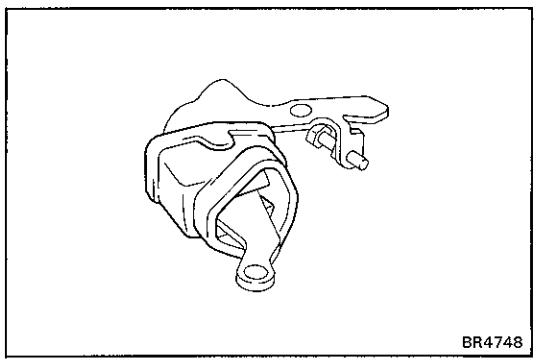
(c) Remeasure the clearance.

ASSEMBLY OF PARKING BRAKE

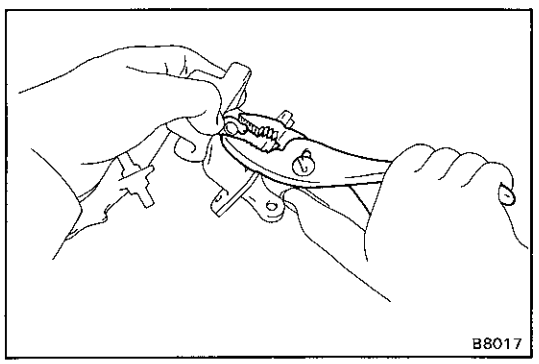
(See page BR-93)

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

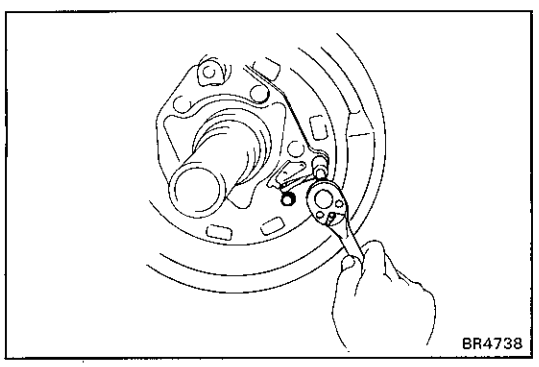




1. **IF NECESSARY, ASSEMBLE AND INSTALL PARKING BRAKE BELLCRANK ASSEMBLY**
   (a) Apply lithium soap base glycol grease to the boot.
   (b) Install the boot to the parking brake bellcrank.

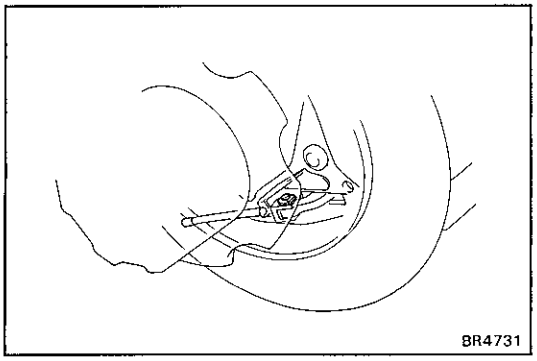


   (c) Install the parking brake bellcrank to the bellcrank bracket.
   (d) Install the pin with the new C-washer.

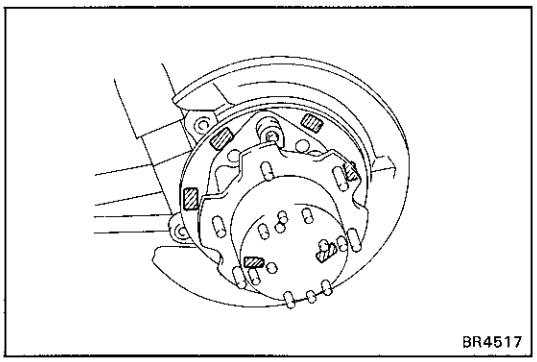


   (e) Install the parking brake bellcrank assembly on the backing plate with two bolts.
   (f) Torque the bolts.

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

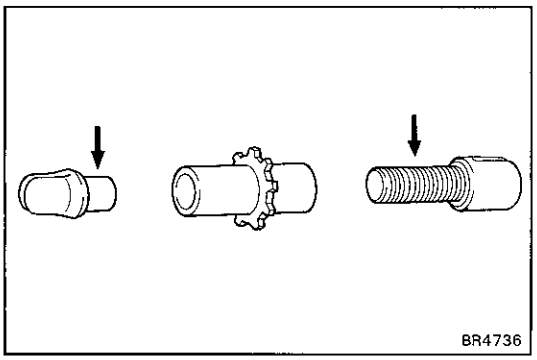


(g) Using pliers, connect parking brake cable No. 2 to the bellcrank with the pin and a new C-washer.

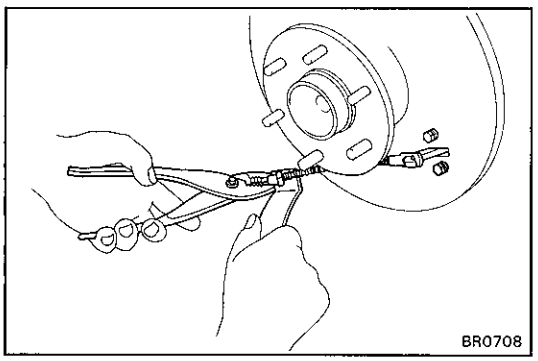


2. APPLY HIGH TEMPERATURE GREASE ON BACKING PLATE AS SHOWN

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

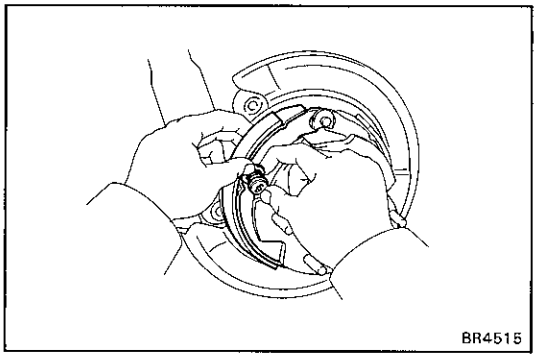


3. APPLY HIGH TEMPERATURE GREASE TO ADJUSTER AS SHOWN



4. CONNECT PARKING BRAKE CABLE TO FRONT SHOE

Connect the parking brake cable to the front shoe.

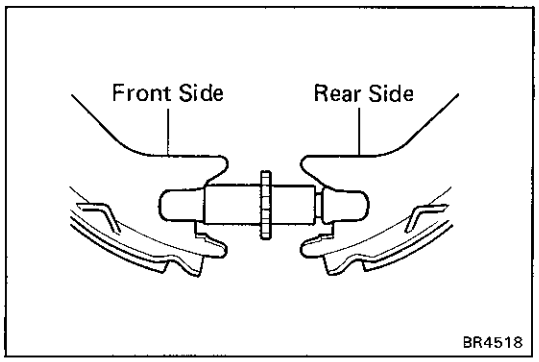


5. INSTALL FRONT SHOE

(a) Install the pins, cups and shoe hold-down springs to the backing plate.

(b) Slide in the front shoe between the cup and the backing plate.

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

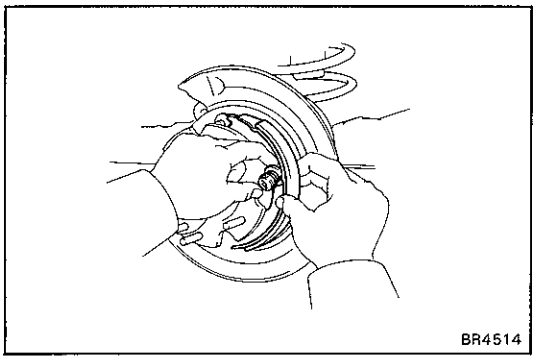


6. INSTALL TENSION SPRINGS, REAR SHOE AND ADJUSTER

(a) Install the lower side tension spring to the front shoe.

(b) Install the rear shoe to the tension spring.

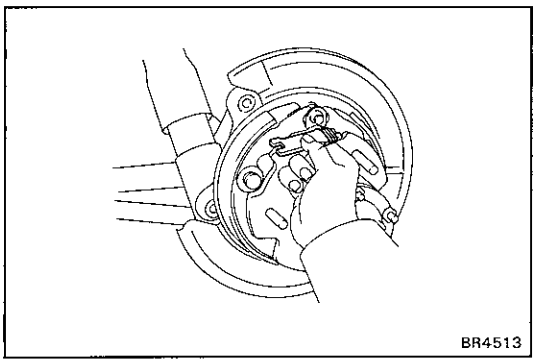
(c) Install the adjuster between the front and rear shoes.



(d) Slide in the front shoe between the shoe hold-down spring cup and the backing plate.

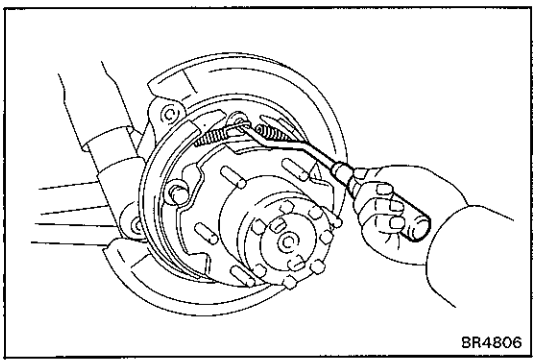
NOTICE: Do not allow oil or grease on the rubbing face.

(e) Using pliers, install the tension spring.



7. INSTALL STRUT WITH SPRING

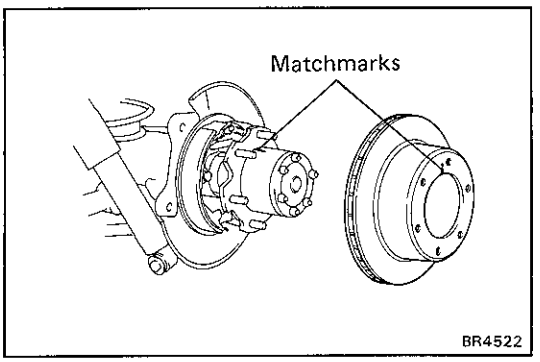
Install the strut and spring with spring facing rearward.



8. INSTALL SHOE RETURN SPRINGS

Using SST, install the front return spring and then install the rear return spring.

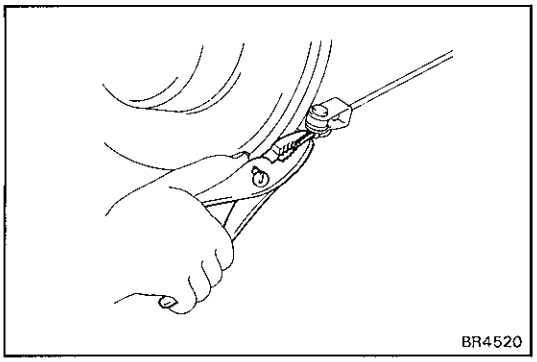
SST 09718-20010



9. INSTALL ROTOR DISC

Align the matchmarks and install the rotor disc.

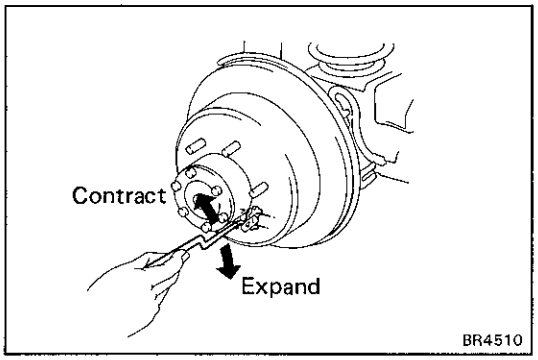
HINT: If there aren't matchmarks, align the groove on the rear axle shaft flange with the service hole on the disc, then install the rotor disc.



10. CONNECT PARKING BRAKE CABLE

(a) Connect the parking brake cable to the bellcrank with the pin and wave washer.

(b) Using pliers, install the clip.



11. ADJUST PARKING BRAKE SHOE CLEARANCE

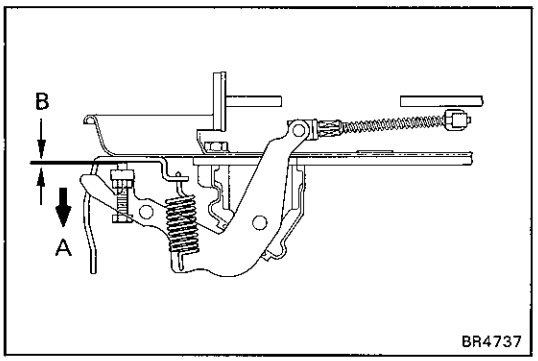
(a) Temporarily install the hub nuts.

(b) Remove the hole plug.

(c) Turn the adjuster and expand the shoes until rotor disc locks.

(d) Return the adjuster eight notches.

(e) Install the hole plug.



12. IF NECESSARY ADJUST BELLCRANK

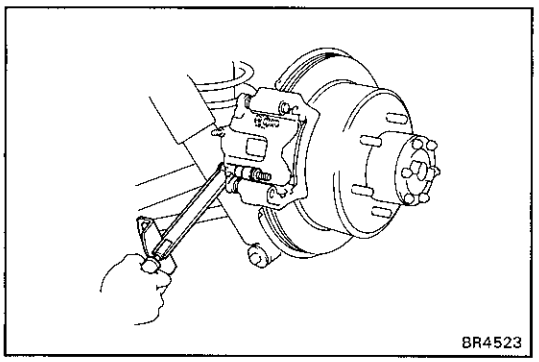
(a) Lightly pull the bellcrank in direction A.

(b) In this condition, turn the adjusting bolt dimension B will be 0.5 — 0.9 mm (0.02 — 0.04 in.).

(c) Lock the adjust bolt with the lock nut.

Torque: 55 kg-cm (47 in-lb, 5.4 N·m)

(d) Install the two tension springs.



13. INSTALL REAR DISC BRAKE ASSEMBLY

Install the disc brake assembly and torque the two mounting bolts.

Torque: 1,050 kg-cm (76 ft-lb, 103 N·m)

14. INSTALL REAR WHEEL

15. BEDDING DOWN PARKING BRAKE SHOES AND DISC

(a) Drive the vehicle at about 50 km/h (31 mph) on a safe, level and dry road.

(b) With the parking brake release button pushed in, pull on the lever with 9 kg (19.8 lb, 88 N) of force.

(c) Drive the vehicle for about 400 meters (0.25 mile) in this condition.

(d) Repeat this procedure two or three times.

16. RECHECK AND ADJUST PARKING BRAKE LEVER TRAVEL