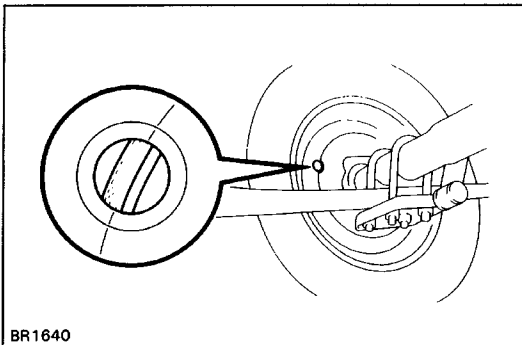
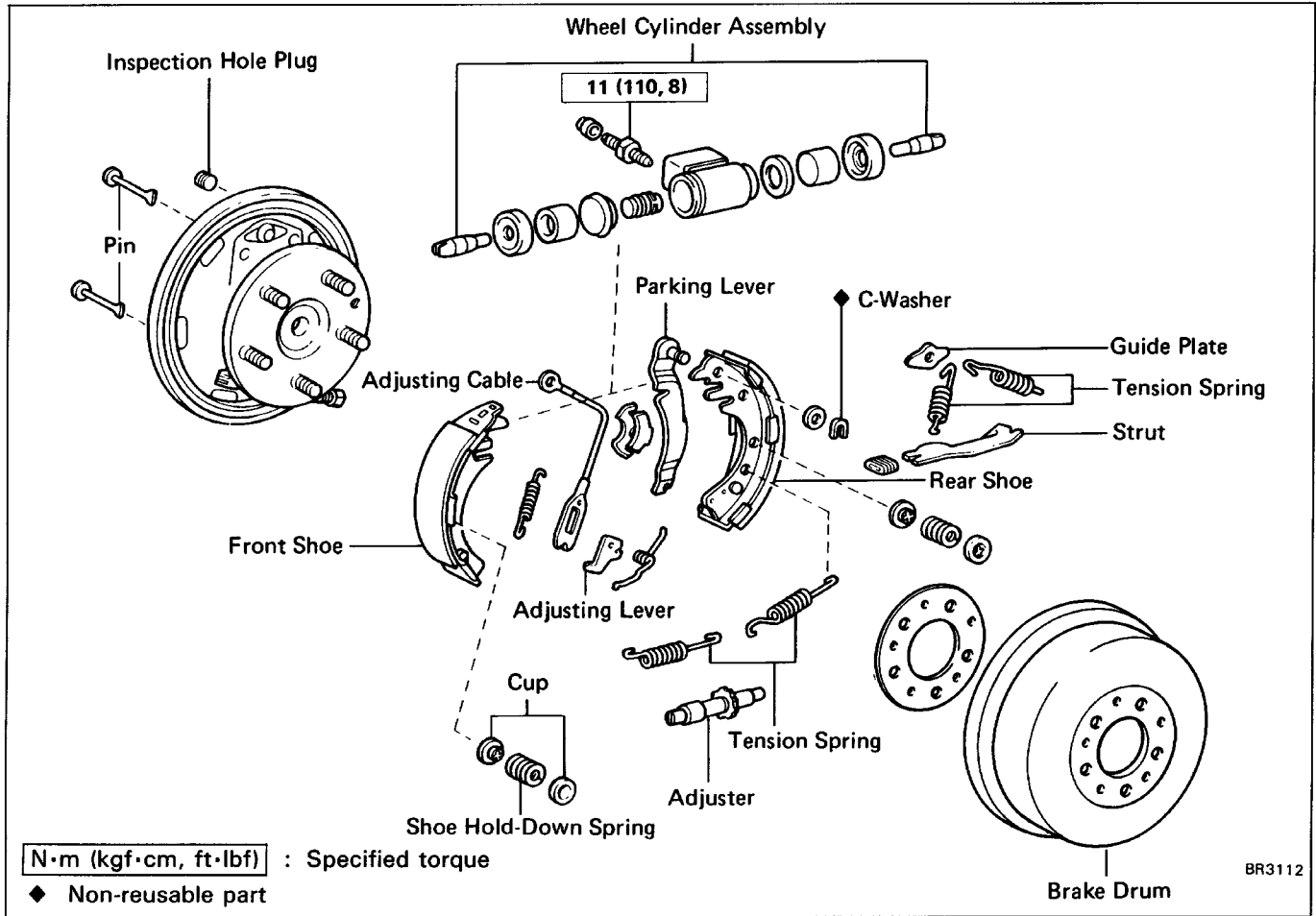


# REAR BRAKE 2WD (Duo-Servo Type) COMPONENTS



## REMOVAL OF REAR DRUM BRAKE

### 1. INSPECT SHOE LINING THICKNESS

Remove the inspection hole plug, and check the shoe lining thickness through the hole.

If less than minimum, replace the shoes.

**Minimum thickness: 1.0 mm (0.039 in.)**

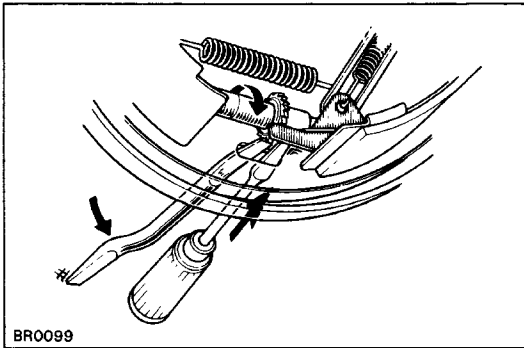
### 2. REMOVE BRAKE DRUM

**(Single tire)**

Remove the brake drum.

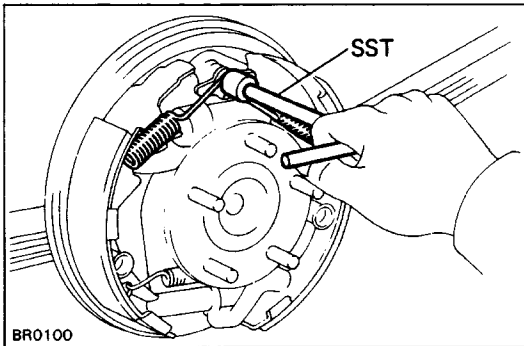
**(Double tire)**

Remove the rear axle shaft and remove the drum with the axle hub.



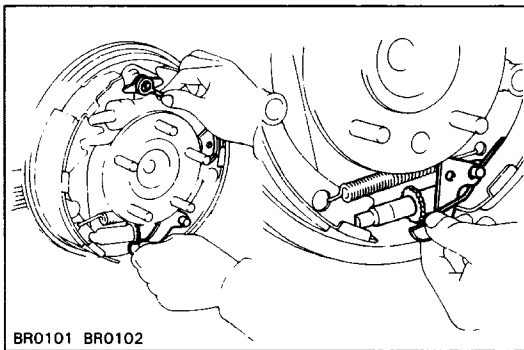
HINT: If the brake drum cannot be removed easily, perform the following steps.

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



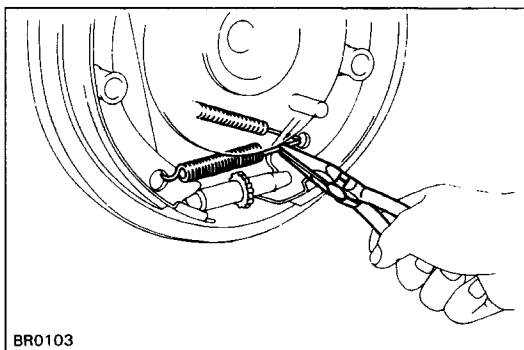
### 3. REMOVE TWO SHOE RETURN SPRINGS

Using SST, remove the two return springs.  
SST 09717-20010



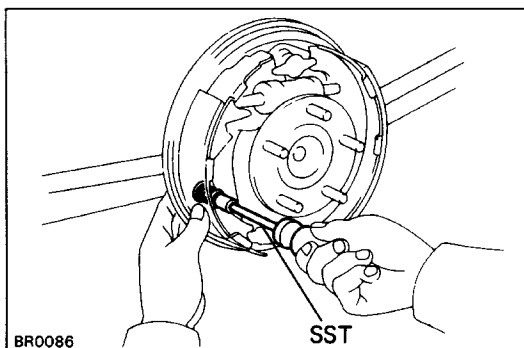
### 4. REMOVE ADJUSTING CABLE, SHOE GUIDE PLATE, CABLE GUIDE AND ADJUSTING LEVER

- (a) Push up the lever and remove the cable, shoe guide plate and cable guide.
- (b) Take off the spring from the lever and remove the lever and spring.



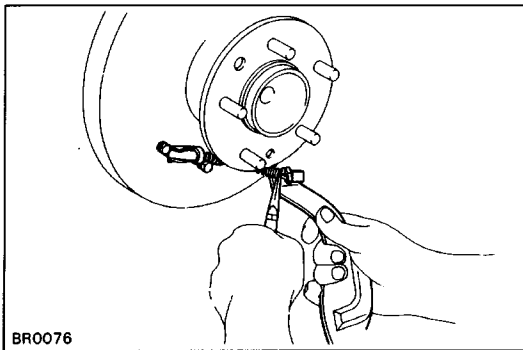
### 5. REMOVE TWO TENSION SPRINGS

Using pliers, remove the two tension springs.

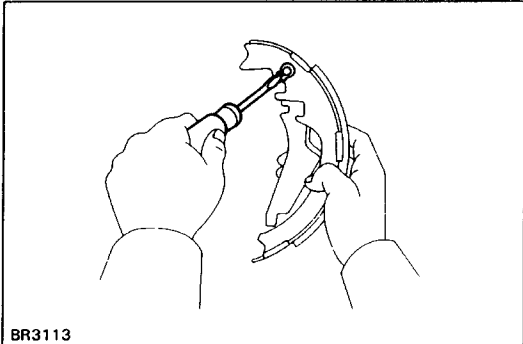


### 6. REMOVE SHOES, ADJUSTER AND STRUT

- (a) Using SST, remove the shoe hold down springs, cups and pins.  
SST 09718-00010
- (b) Remove the shoes, adjuster and strut.

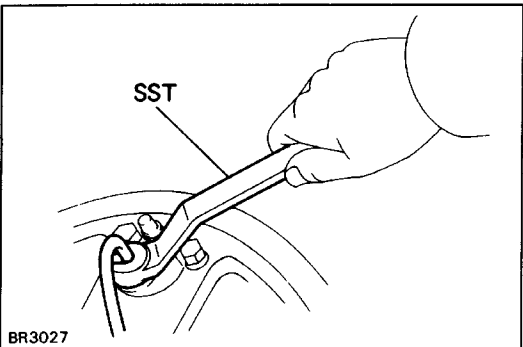


- (c) Disconnect the parking brake cable from the parking brake lever



#### 7. REMOVE PARKING BRAKE LEVER

Using a screwdriver, remove the parking brake lever.



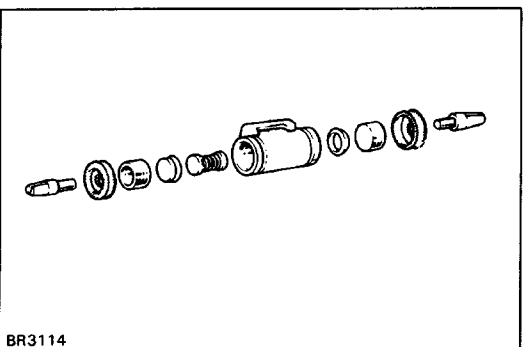
#### 8. DISCONNECT BRAKE TUBE FROM WHEEL CYLINDER

Using SST, disconnect the brake tube. Use a container to catch the brake fluid.

SST 09751-36011

#### 9. REMOVE WHEEL CYLINDER

Remove the two bolts and wheel cylinder.



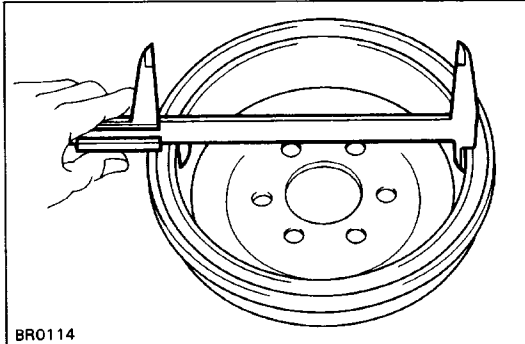
#### 10. REMOVE FOLLOWING PARTS FROM WHEEL CYLINDER

- (a) Two piston rods
- (b) Two boots
- (c) Two pistons
- (d) Two piston cups
- (e) Spring

## INSPECTION AND REPAIR OF REAR BRAKE COMPONENTS

### 1. INSPECT DISASSEMBLED PARTS

Inspect the disassembled parts for wear, rust or damage.

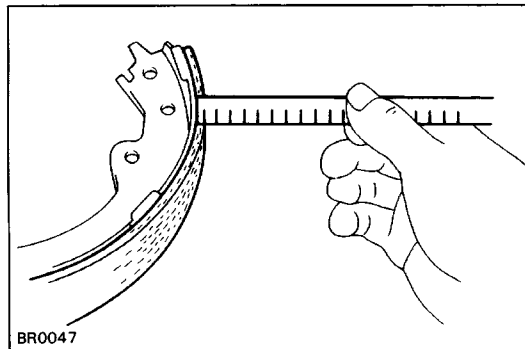


### 2. INSPECT BRAKE DRUM INSIDE DIAMETER

**Standard inside diameter: 254.0 mm (10.00 in.)**

**Maximum inside diameter: 256.0 mm (10.08 in.)**

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



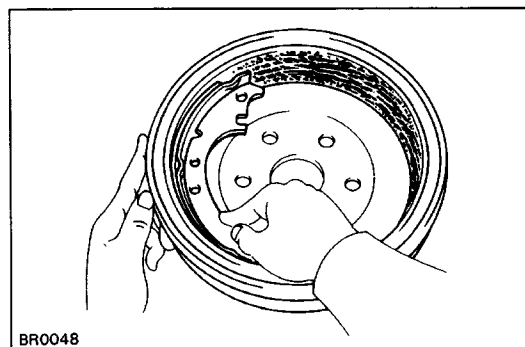
### 3. INSPECT BRAKE SHOE LINING THICKNESS

**Standard thickness: 5.0 mm (0.197 in.)**

**Minimum thickness: 1.0 mm (0.039 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 brake shoes in order to maintain even braking.



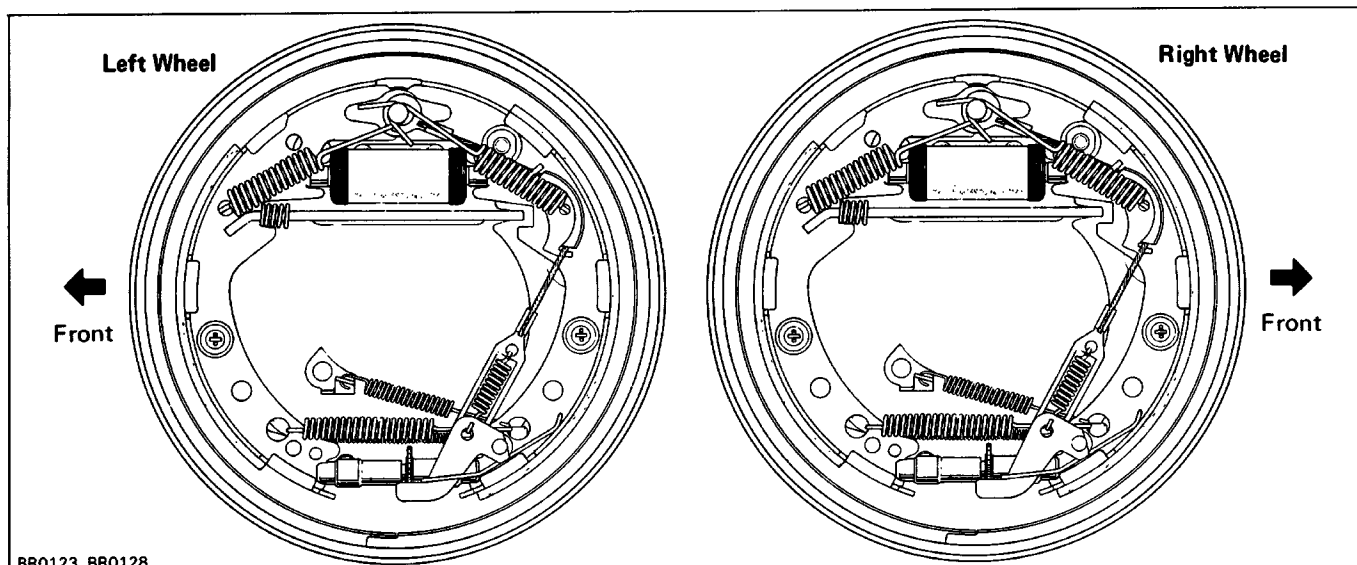
### 4. INSPECT BRAKE LINING AND DRUM FOR PROPER CONTACT

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

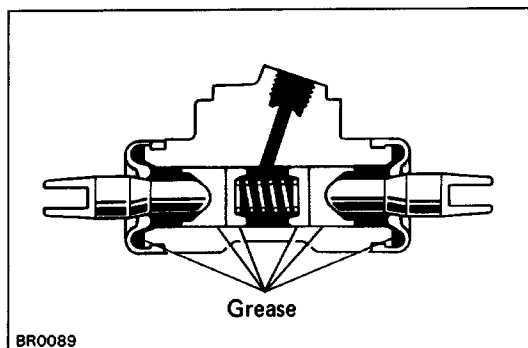
**INSTALLATION OF REAR BRAKE**

(See page BR-47)

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



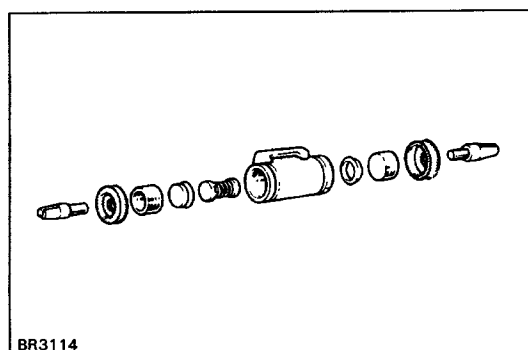
BR0123 BR0128



BR0089

**1. APPLY LITHIUM SOAP BASE GLYCOL GREASE TO FOLLOWING PARTS**

- (a) Two piston cups
- (b) Two pistons



BR3114

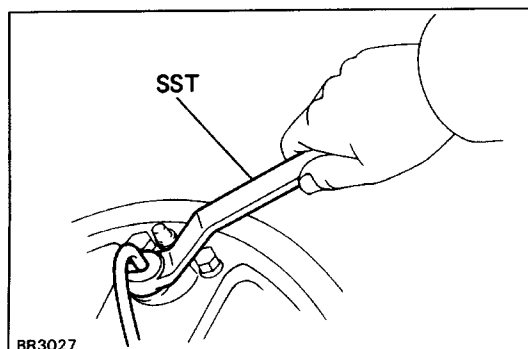
**2. ASSEMBLE WHEEL CYLINDER**

- (a) Install the spring and two piston cups into the wheel cylinder. Check that the flanges of the piston cups are pointed inward.
- (b) Install the two pistons.
- (c) Install the boots and rods.

**3. INSTALL WHEEL CYLINDER**

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

**Torque: 14 N-m (145 kgf-cm, 10 ft-lbf)**



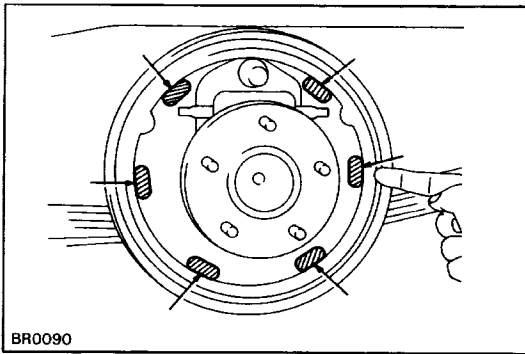
BR3027

**4. CONNECT BRAKE TUBE TO WHEEL CYLINDER**

Using SST, connect tube.

SST 09751-36011

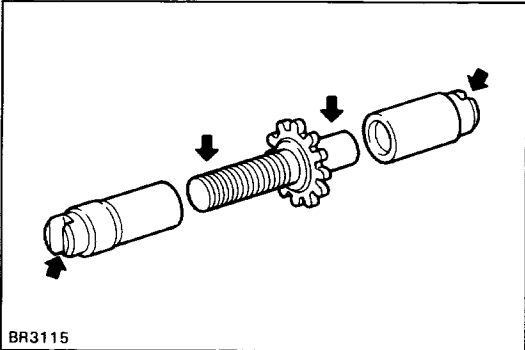
**Torque: 15 N-m (155 kgf-cm, 11 ft-lbf)**



BR0090

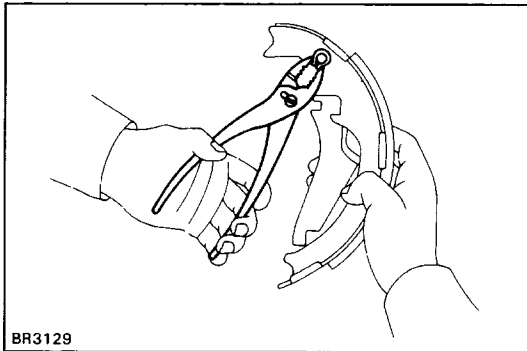
## 5. APPLY HIGH TEMPERATURE GREASE TO FOLLOWING PARTS:

- (a) Backing plate and brake shoe contact points
- (b) Piston rod and brake shoe contact points



BR3115

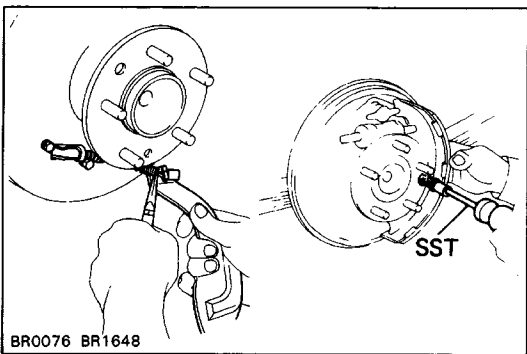
- (c) Adjusting bolt
- (d) Adjuster and brake shoe contact point



BR3129

## 6. INSTALL PARKING BRAKE LEVER

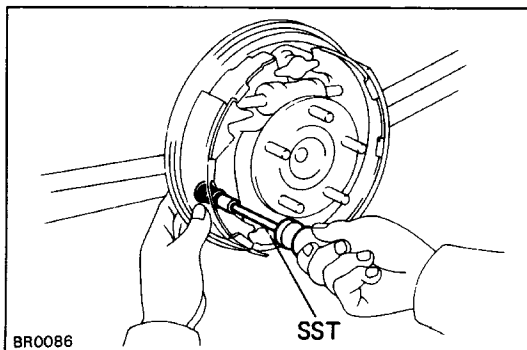
Using pliers, install the parking brake lever with a new C-washer.



BR0076 BR1648

## 7. INSTALL REAR SHOE

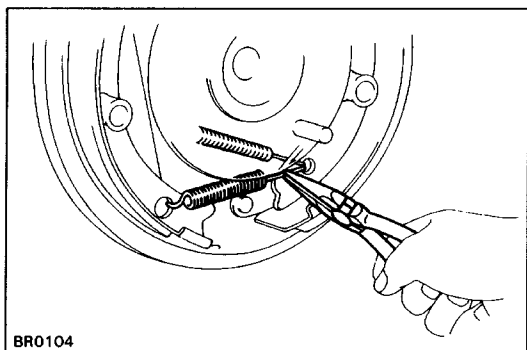
- (a) Install the parking brake cable to the parking brake lever.
- (b) Set the rear brake shoe in place with the end of the shoe inserted in the piston rod. Using SST, install the shoe hold-down spring and pin. SST 09718-00010



BR0086

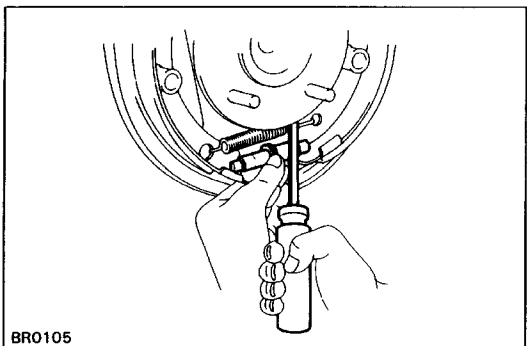
## 8. INSTALL STRUT AND FRONT SHOE

- (a) Install the strut with the spring.
- (b) Set the front brake shoe in place with the end of the shoe inserted in the piston rod and the strut in place. Using SST, install the shoe hold-down spring and pin. SST 09718-00010



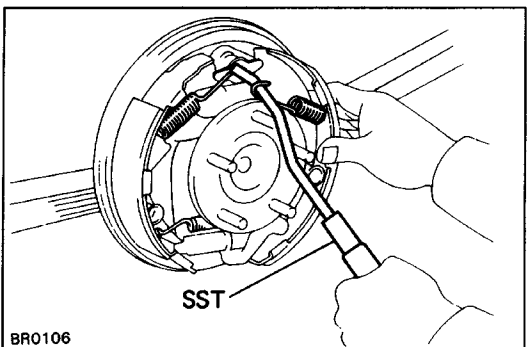
### 9. INSTALL TWO TENSION SPRINGS

Using pliers, install the two tension springs.



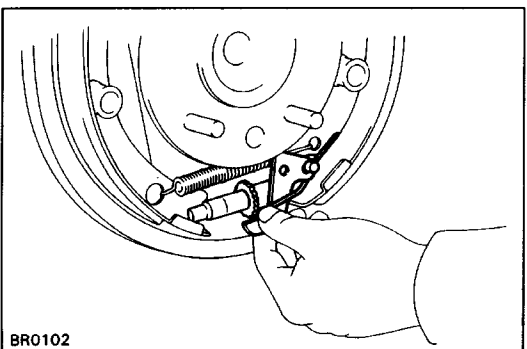
### 10. INSTALL ADJUSTER

Using a screwdriver, open the shoes and install the adjuster.



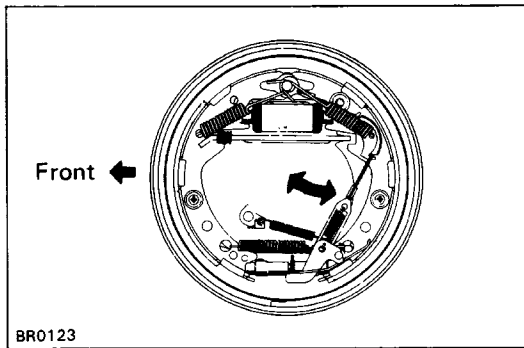
### 11. INSTALL SHOE GUIDE PLATE, CABLE GUIDE, ADJUSTING CABLE AND RETURN SPRINGS

- (a) Install the shoe guide plate, cable guide and adjusting cable.
- (b) Using SST, install the front return spring and then install the rear return spring.  
SST 09718-20010



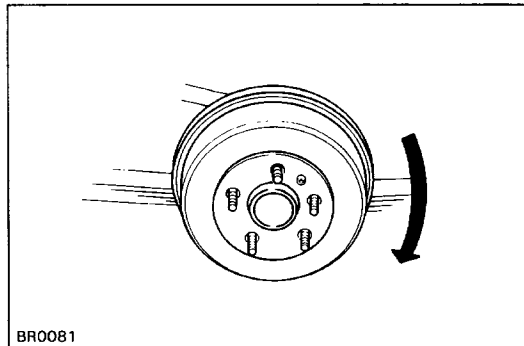
### 12. INSTALL ADJUSTING LEVER

- (a) Install the tension spring to the rear shoe.
- (b) Hook the adjusting lever with the cable and install the lever.
- (c) Hook the adjusting lever with the tension spring.

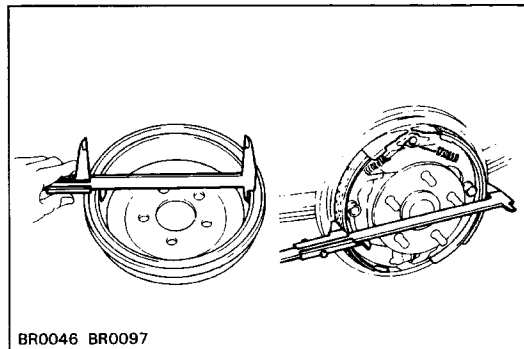


### 13. CHECK OPERATION OF AUTOMATIC ADJUSTER MECHANISM

- (a) Pull the adjusting 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) Turn the brake drum in reverse direction and depress the brake pedal. Repeat this procedure until a clicking sound can no longer be heard.



### 14. CHECK CLEARANCE BETWEEN BRAKE SHOES AND DRUM

- (a) Remove the drum.  
 (b) 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.

### 15. INSTALL BRAKE DRUM

(Single tire)

Install the brake drum.

(Double tire)

Install the brake drum with axle hub and install the rear axle shaft. (See page [SA-128](#))

### 16. FILL BRAKE RESERVOIR WITH BRAKE FLUID AND BLEED BRAKE SYSTEM

(See page [BR-8](#))

### 17. CHECK FOR FLUID LEAKAGE