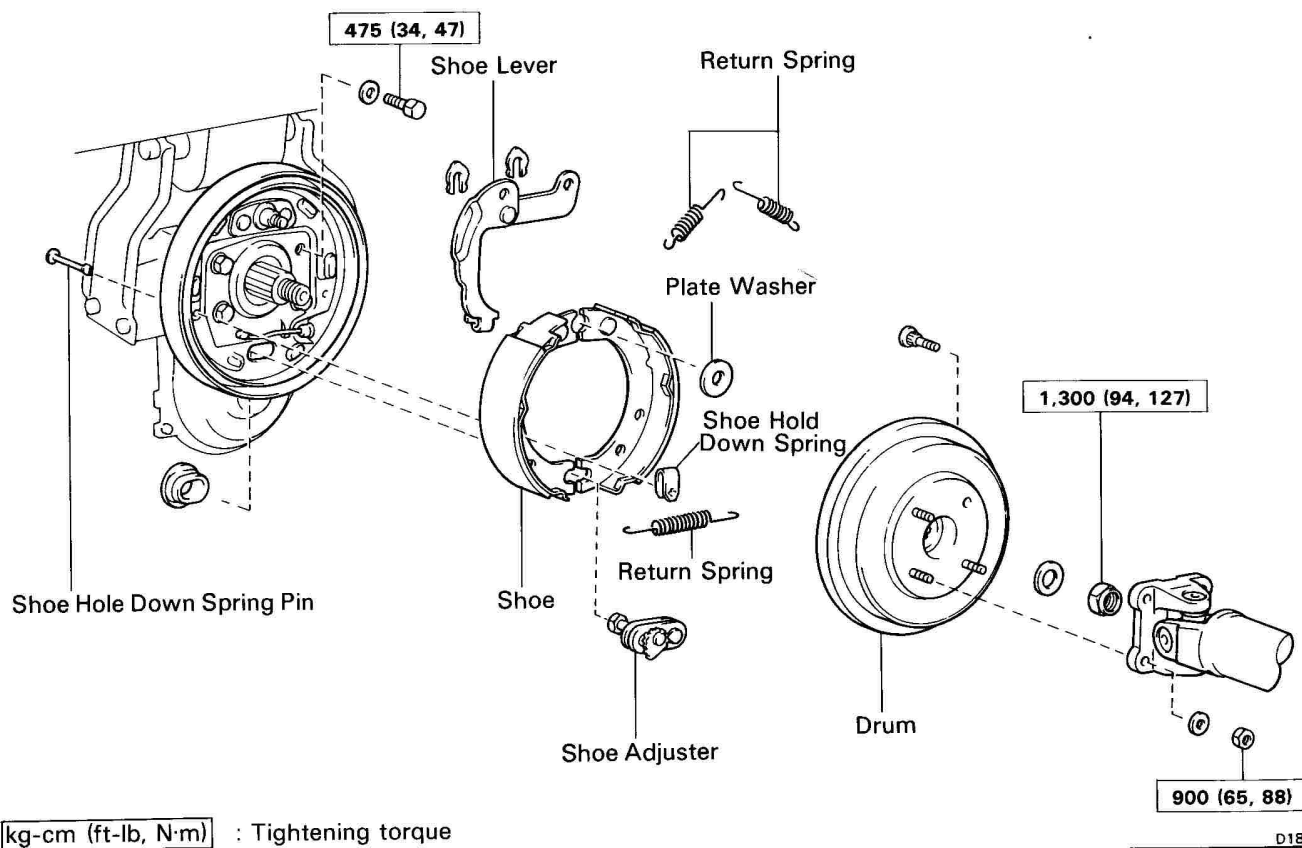


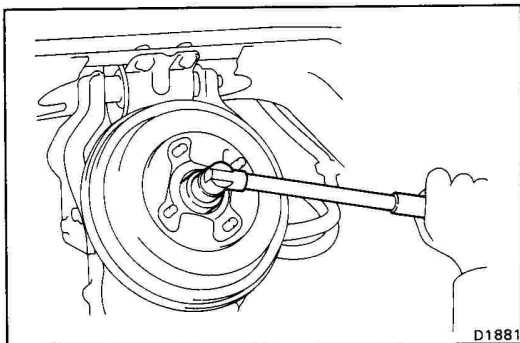
PARKING BRAKE

6.3 in. Type

COMPONENTS



D1853



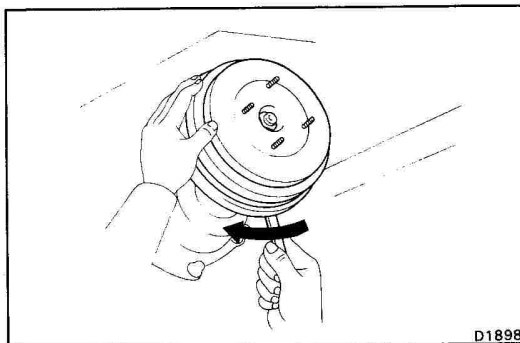
DISASSEMBLY OF PARKING BRAKE

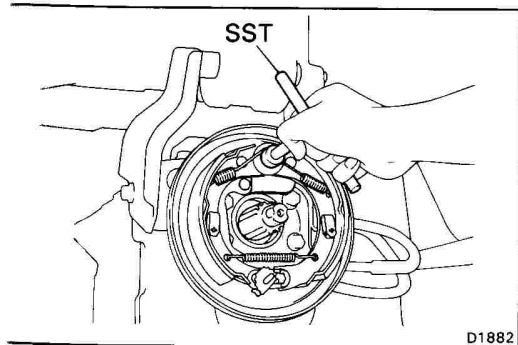
1. DISCONNECT PROPELLER SHAFT (See page PR-3)

2. REMOVE DRUM

- Using a chisel and hammer, loosen the staked part of the nut.
- Remove the nut and plate washer.
- Release the parking brake lever.
- Remove the drum.

NOTE: If the brake drum cannot be removed easily, turn the shoe adjuster clockwise until the drum turns freely.

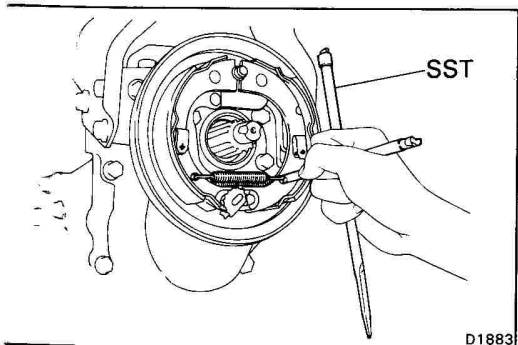


**3. REMOVE RETURN SPRING**

- (a) Using SST, remove the two return springs on the upper side.

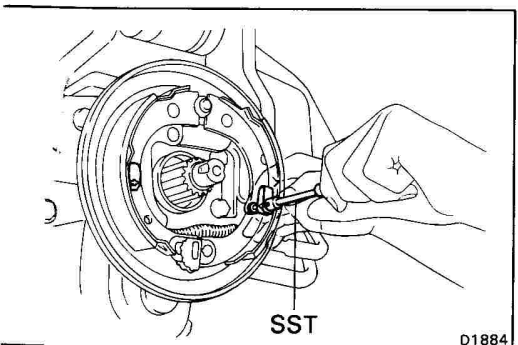
SST 09717-20010

- (b) Remove the plate washer.



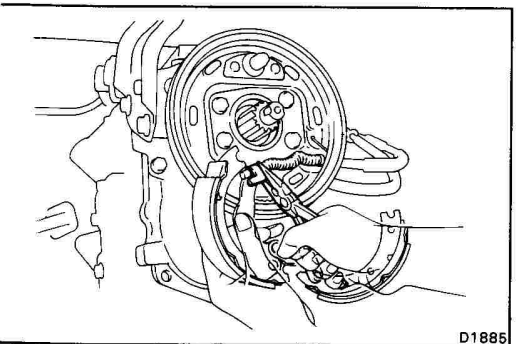
- (c) Using SST, remove the return spring on the lower side.

SST 09921-00010

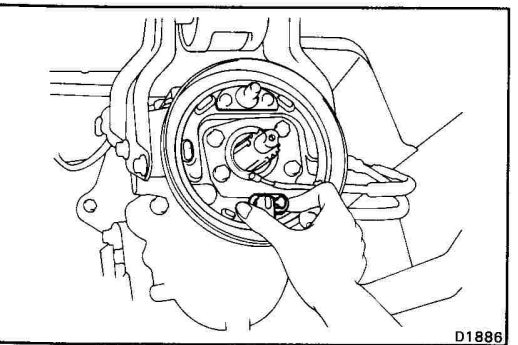
**4. REMOVE BRAKE SHOES AND SHOE LEVER**

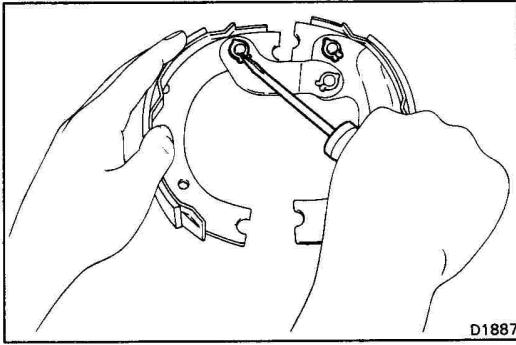
- (a) Using SST, remove the shoe hold down spring and pin.

SST 09718-00010



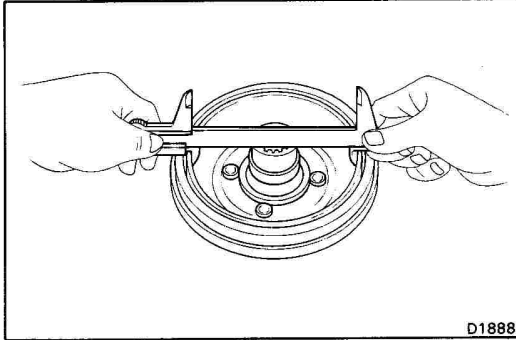
- (b) Using a long nose pliers, disconnect the parking brake cable from the shoe lever.

**5. REMOVE PARKING BRAKE SHOE ADJUSTER**



6. IF NECESSARY, REMOVE PARKING BRAKE SHOE LEVER FROM SHOE

Using a screwdriver, remove the C-washers and disassembly the shoes and lever.



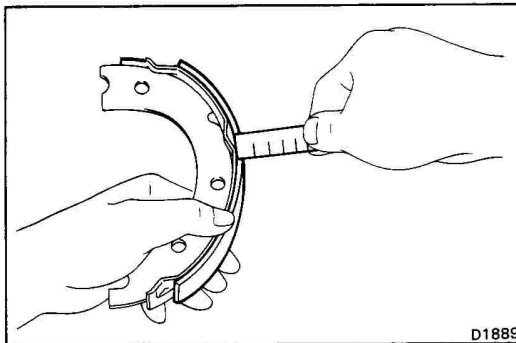
INSPECTION OF PARKING BRAKE COMPONENTS

1. MEASURE BRAKE DRUM INSIDE DIAMETER

Maximum inside diameter: 161.0 mm
(6.339 in.)

Standard inside diameter: 160.0 mm
(6.299 in.)

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

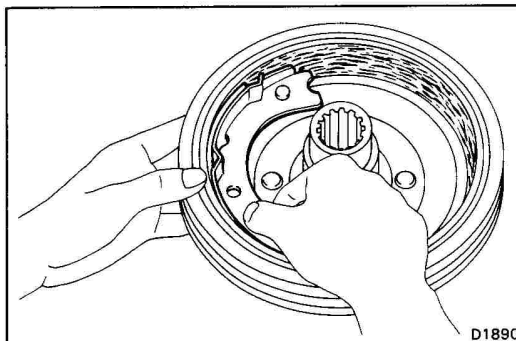


2. MEASURE BRAKE SHOE LINING THICKNESS

Minimum thickness: 1.5 mm (0.059 in.)

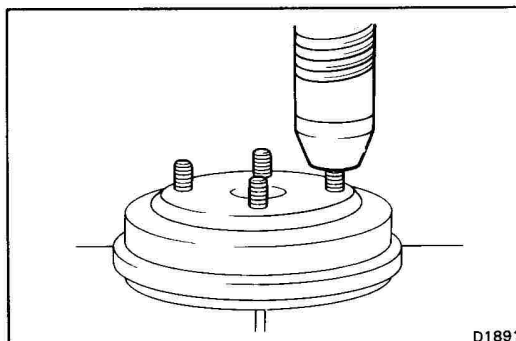
Standard thickness: 4.0 mm (0.157 in.)

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



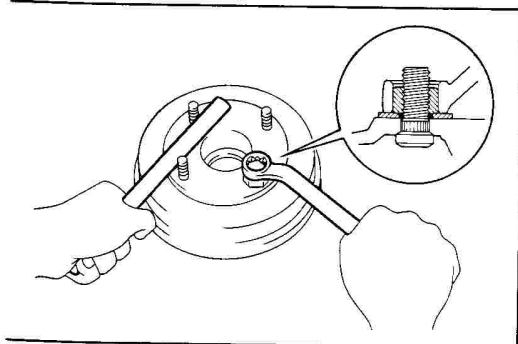
3. INSPECT BRAKE LINING AND DRUM FOR PROPER CONTACT

Replace the brake shoe or lathe the brake drum as necessary.



4. IF NECESSARY, REPLACE SERRATION BOLTS

(a) Using a press, remove the serration bolts.

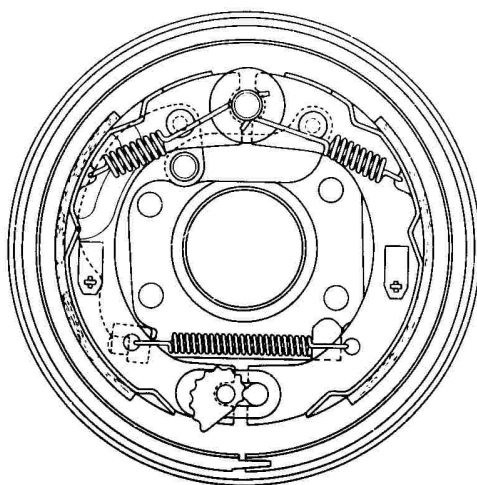


- (b) Insert the new serration bolts to the brake drum.
- (c) Using a service nut and plate washer, install them and tighten the service nut until the serration bolt fully install.

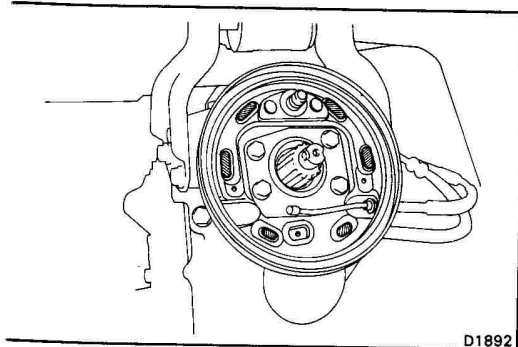
ASSEMBLY OF PARKING BRAKE

(See page BR-66)

NOTE: Assemble the parts in correct direction as shown.

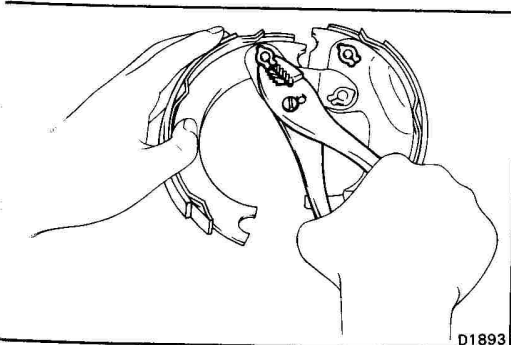


D1896



D1892

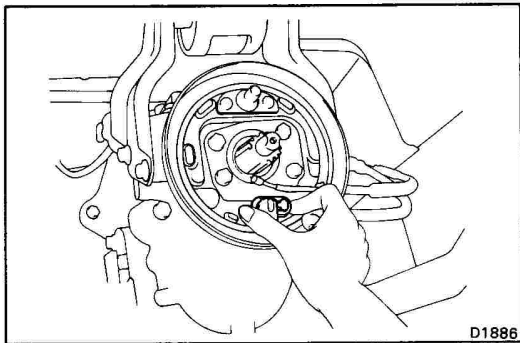
1. APPLY HIGH TEMPERATURE TYPE GREASE TO FOLLOWING PARTS



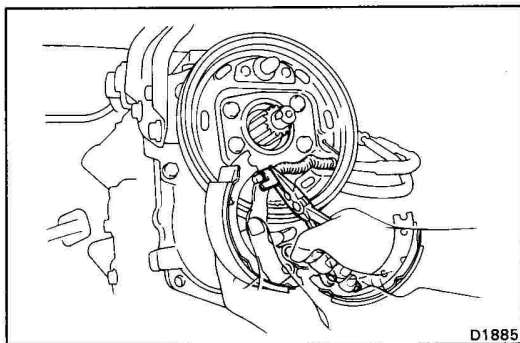
D1893

2. INSTALL SHOE LEVER TO BRAKE SHOE

- (a) Assemble the shoes and shoe lever.
- (b) Using pliers, install and stake the C-washer.

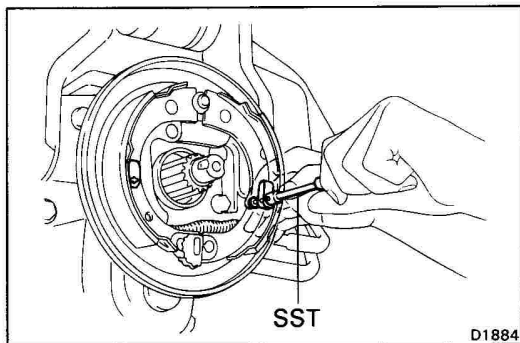


3. INSTALL PARKING BRAKE SHOE ADJUSTER

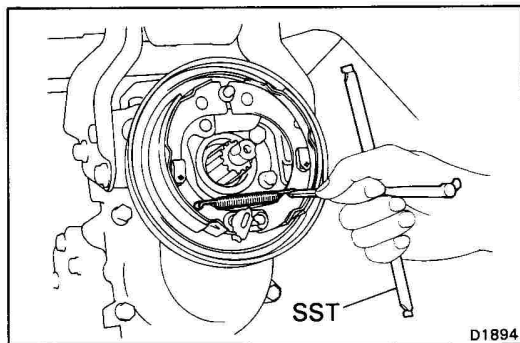


4. INSTALL BRAKE SHOES AND SHOE LEVER

- (a) Using long nose pliers, connect the parking brake cable to the shoe lever.

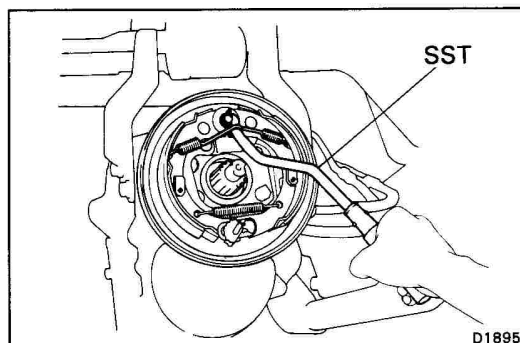


- (b) Place the shoe with shoe lever on the backing plate
(c) Using SST, install the shoe hold down spring and pin.
SST 09703-30010

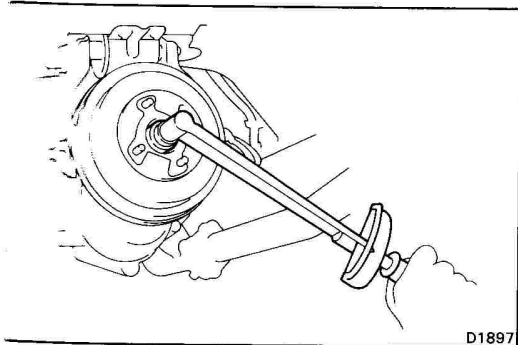


5. INSTALL RETURN SPRINGS

- (a) Using SST, install the return spring on the lower side.
SST 09703-30010



- (b) Install the plate washer on the anchor bolt.
(c) Using SST, install the two return springs on the upper side.
SST 09718-20010

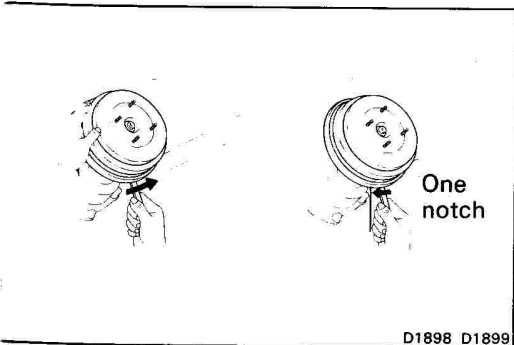


D1897

6. INSTALL BRAKE DRUM

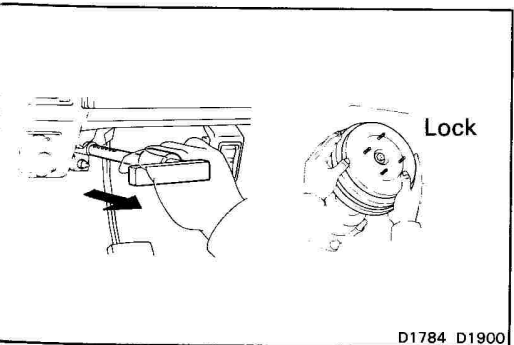
- (a) Turn the shoe adjuster clockwise to fully.
- (b) Install the brake drum.
- (c) Install the plate washer and nut.
Torque the nut.

Torque: 1,300 kg-cm (94 ft-lb, 127 N·m)



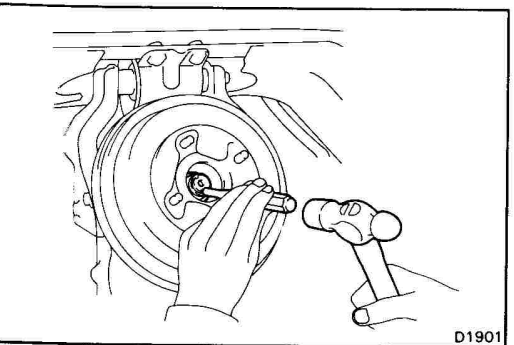
D1898 D1899

- (d) Turn the shoe adjuster counterclockwise until the brake shoes are fully expanded.
- (e) Turn the shoe adjuster clockwise one notch.



D1784 D1900

- (f) With the parking brake fully pulled, check to see that the drum is locked.
- (g) Release the parking brake lever and insure that the parking brake is not dragging.
If dragging, turn the shoe adjuster clockwise another notch.



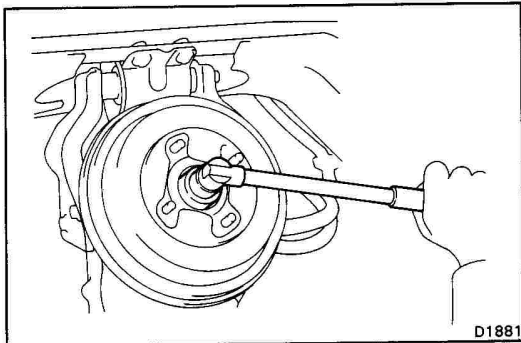
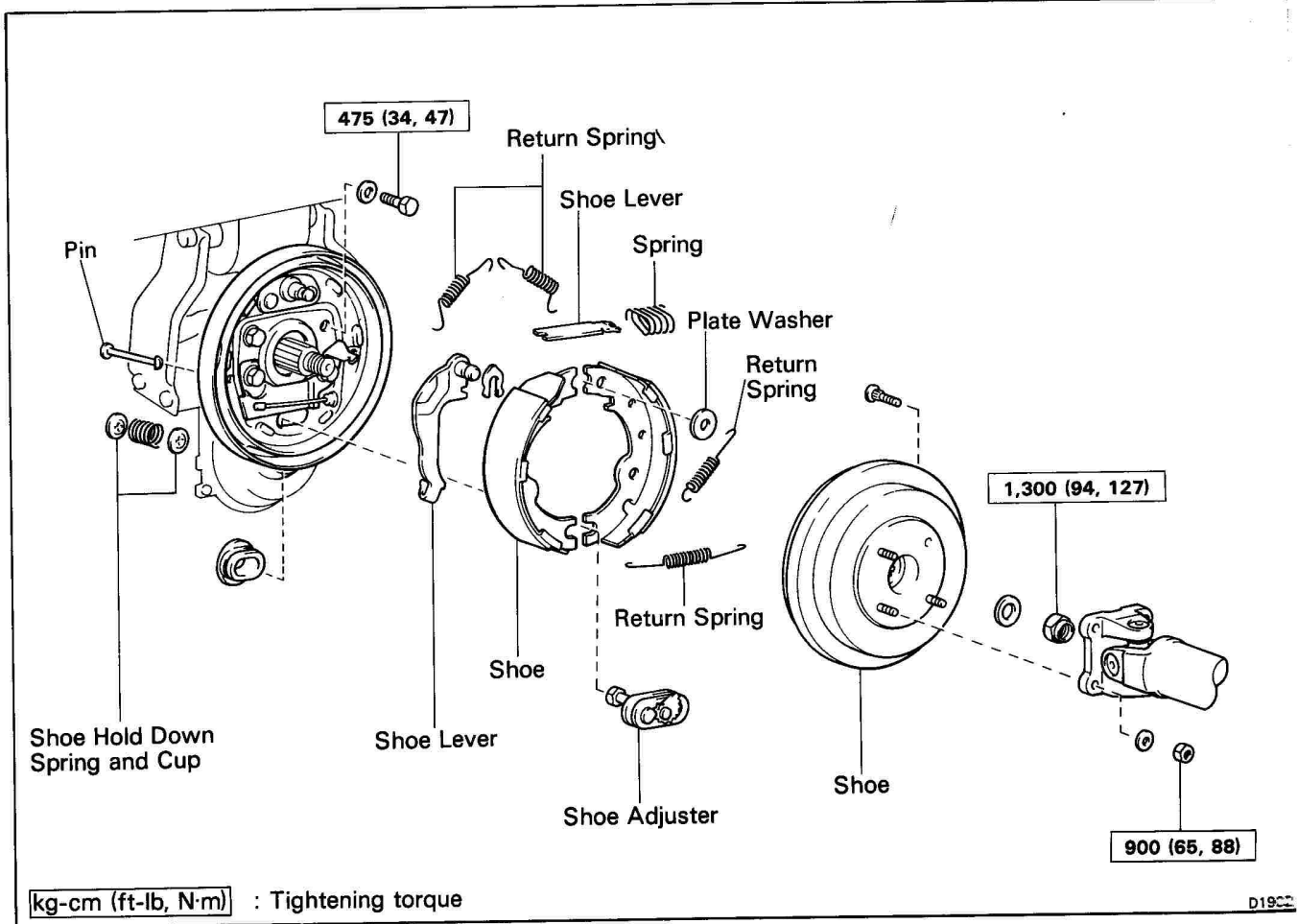
D1901

7. STAKE NUT

Using a pin punch and hammer, stake the nut.

8. CONNECT PROPELLER SHAFT
(See page PR-11)**9. CHECK AND ADJUSTMENT OF PARKING BRAKE LEVER TRAVEL** (See page BR-8)

7 in. Type COMPONENTS



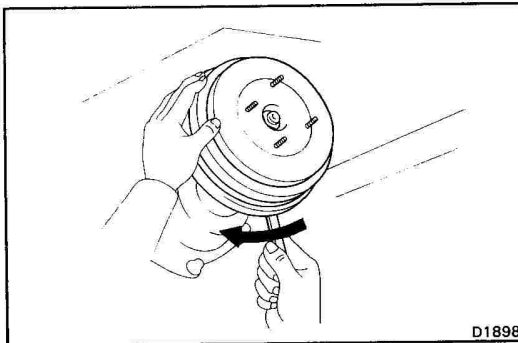
DISASSEMBLY OF PARKING BRAKE

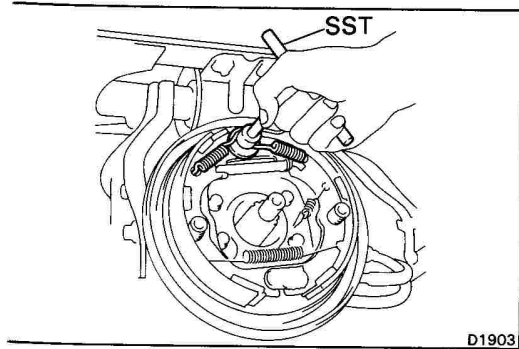
1. DISCONNECT PROPELLER SHAFT (See page PR-3)

2. REMOVE DRUM

- Using a chisel and hammer, loosen the staked part of the nut.
- Remove the nut and plate washer.
- Release the parking brake lever.
- Remove the drum.

NOTE: If the brake drum cannot be removed easily, turn the shoe adjuster clockwise until the drum turns freely.

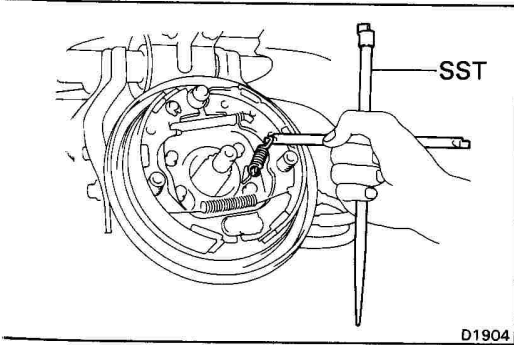


**3. REMOVE RETURN SPRING**

- (a) Using SST, remove the two return springs on the upper side.

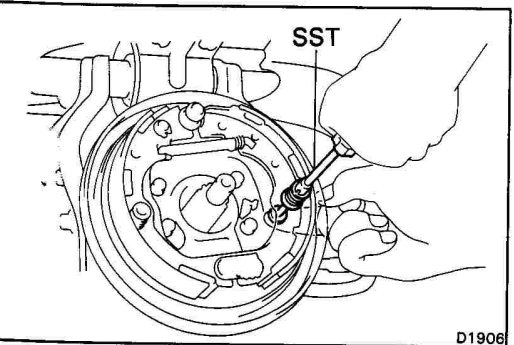
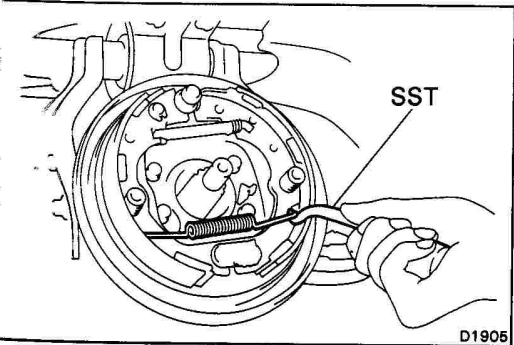
SST 09717-20010

- (b) Remove the plate washer.



- (c) Using SST, remove the two return springs on the lower side.

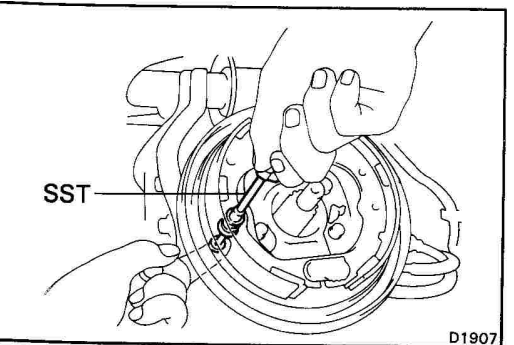
SST 09921-00010

**4. REMOVE RIGHT SIDE BRAKE SHOE**

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

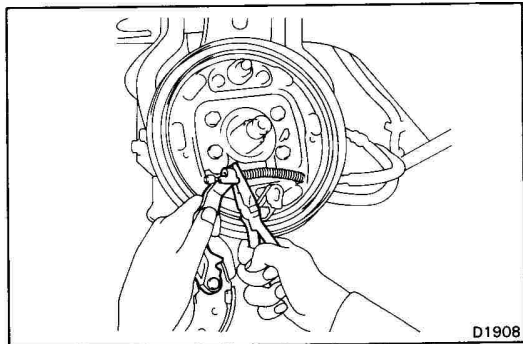
SST 09718-00010

- (b) Remove the shoe.

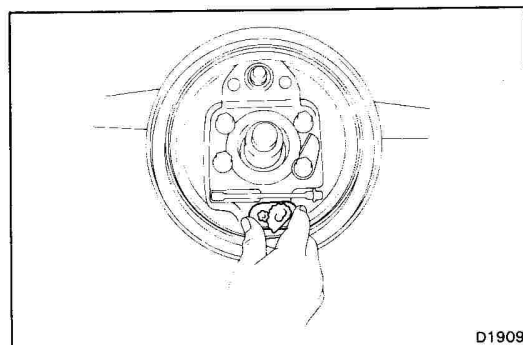
**5. REMOVE SHOE LEVER STRUT AND SPRING****6. REMOVE LEFT SIDE BRAKE SHOE WITH SHOE LEVER**

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

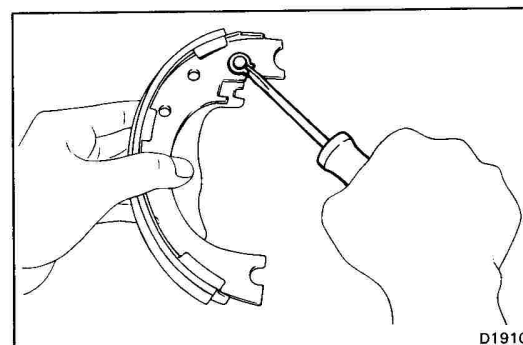
SST 09718-00010



- (b) Using long nose pliers, disconnect the parking brake cable from the shoe.

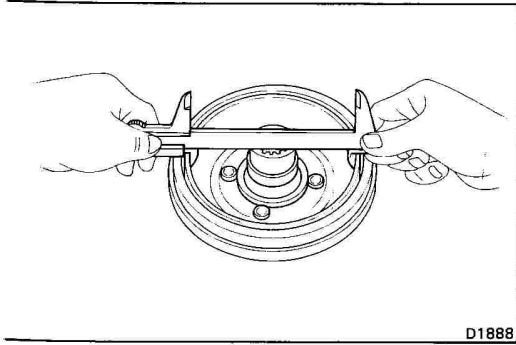


7. REMOVE PARKING BRAKE SHOE ADJUSTER



8. IF NECESSARY, REMOVE PARKING BRAKE SHOE LEVER FROM SHOE

Using a screwdriver, remove the C-washers and disassemble the shoes and lever.



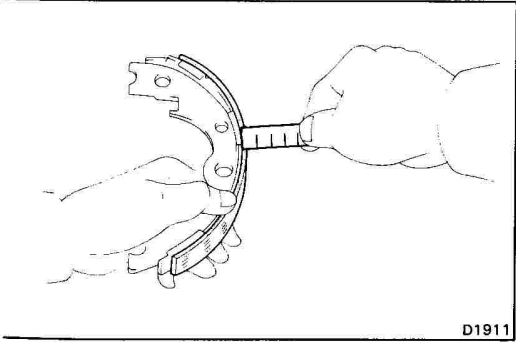
INSPECTION OF PARKING BRAKE COMPONENTS

1. MEASURE BRAKE DRUM INSIDE DIAMETER

Maximum inside diameter: 178.8 mm
(7.039 in.)

Standard inside diameter: 177.8 mm
(7.000 in.)

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

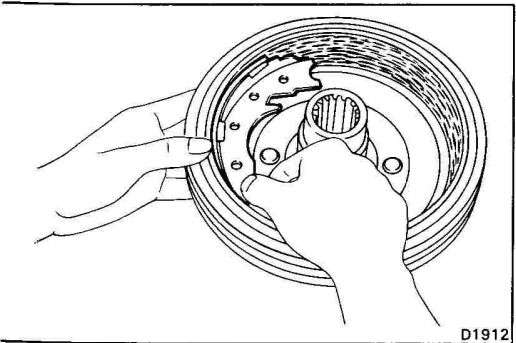


2. MEASURE BRAKE SHOE LINING THICKNESS

Minimum thickness: 1.5 mm (0.059 in.)

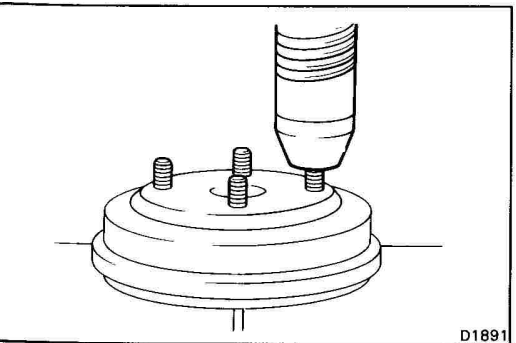
Standard thickness: 3.6 mm (0.142 in.)

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



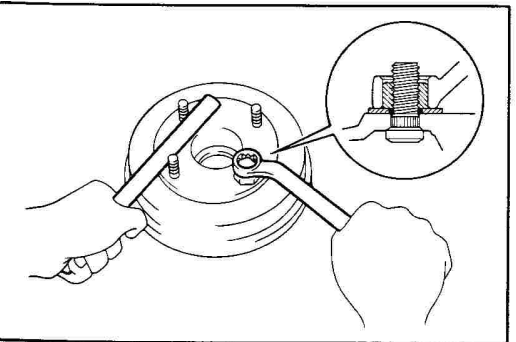
3. INSPECT BRAKE LINING AND DRUM FOR PROPER CONTACT

Replace the brake shoe or lathe the brake drum as necessary.



4. IF NECESSARY, REPLACE SERRATION BOLTS

(a) Using a press, remove the serration bolts.



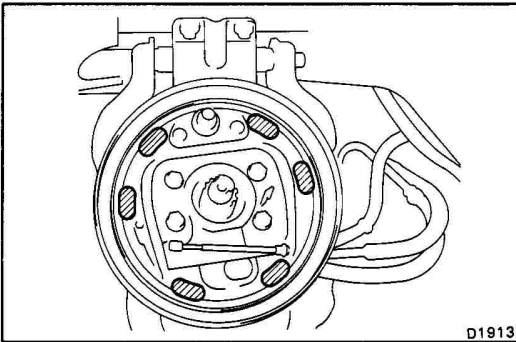
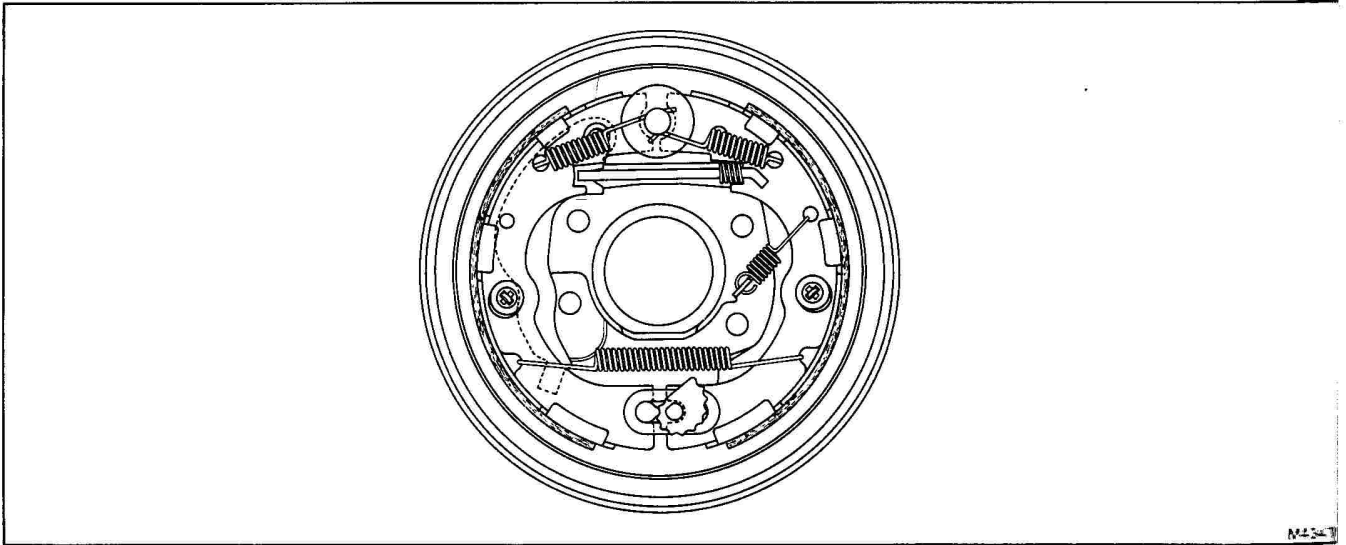
(b) Insert the new serration bolts to the brake drum.

(c) Using a service nut and plate washer, install them and tighten the service nut until the serration bolt fully install.

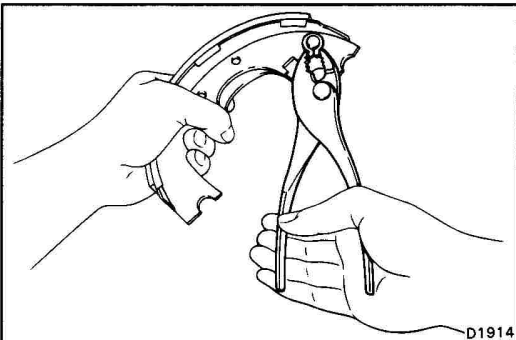
ASSEMBLY OF PARKING BRAKE

(See page BR-72)

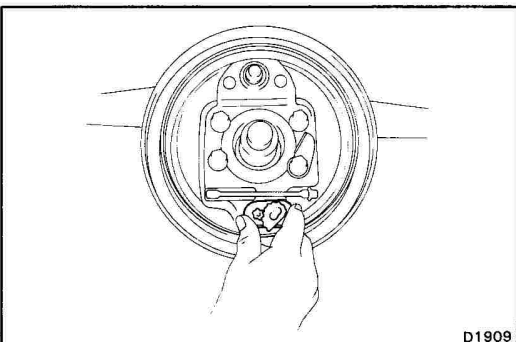
NOTE: Assemble the parts in the correct direction as shown.



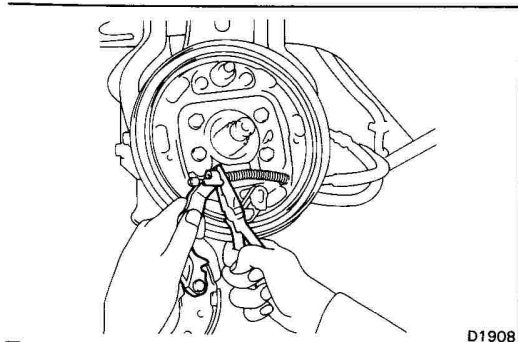
1. **APPLY HIGH TEMPERATURE TYPE GREASE TO FOLLOWING PARTS**



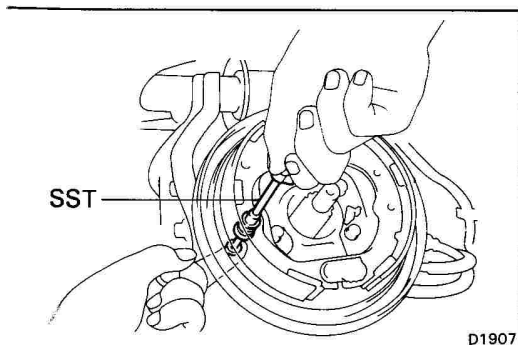
2. **INSTALL SHOE LEVER TO BRAKE SHOE**
 - (a) Assemble the shoes and shoe lever.
 - (b) Using pliers, Install and stake the C-washer.



3. **INSTALL PARKING BRAKE SHOE ADJUSTER**

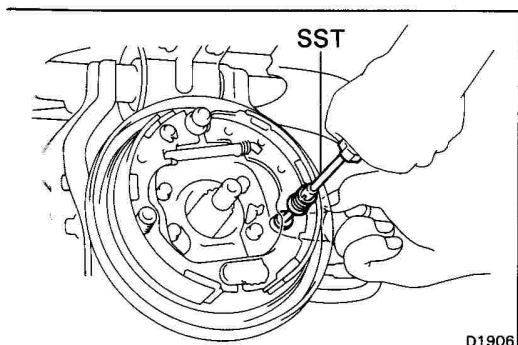
**4. INSTALL LEFT SIDE BRAKE SHOE WITH SHOE LEVER**

- (a) Using long nose pliers, connect the parking brake cable to the shoe lever with shoe.



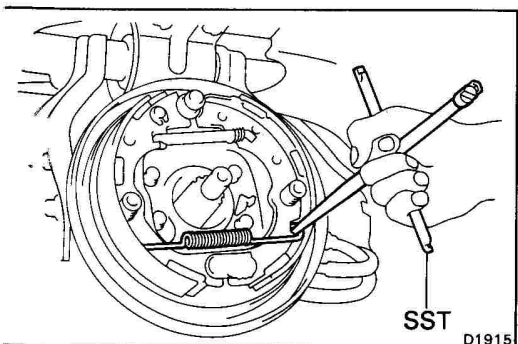
- (b) Place the shoe with shoe lever on the backing plate.
(c) Using SST, install the shoe hold down spring, cups and pin.

SST 09703-30010

**5. INSTALL RIGHT SIDE BRAKE SHOE**

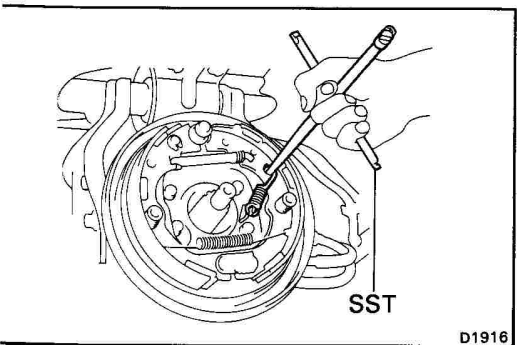
- (a) Place the shoe on the backing plate.
(b) Using SST, install the shoe hold down spring, cups and pin.

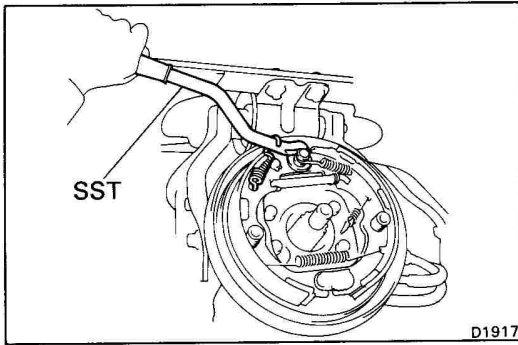
SST 09703-30010

**6. INSTALL SHOE LEVER STRUT AND SPRING****7. INSTALL RETURN SPRINGS**

- (a) Using SST, install the two return springs on the lower side.

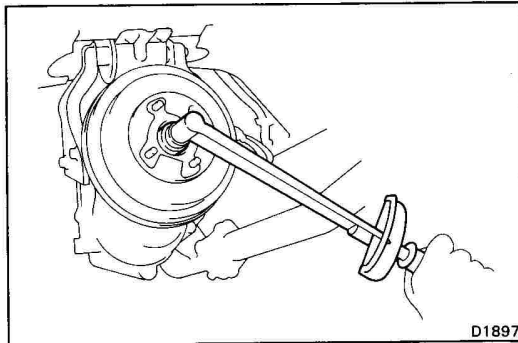
SST 09703-30010





- (b) Install the plate washer on the anchor bolt.
- (c) Using SST, install the two return springs on the upper side.

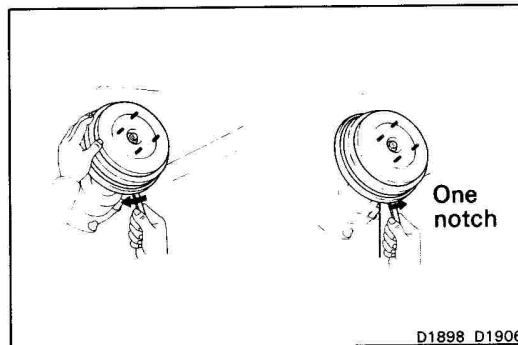
SST 09718-20010



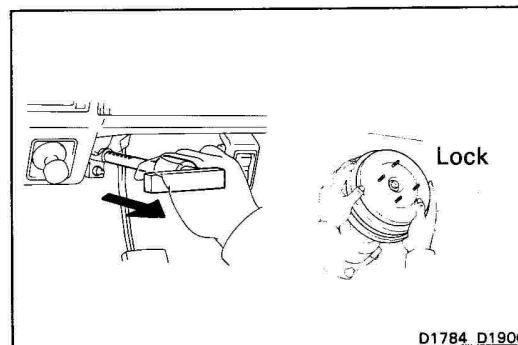
8. INSTALL BRAKE DRUM

- (a) Turn the shoe adjuster counterclockwise to fully.
- (b) Install the brake drum.
- (c) Install the plate washer and nut. Torque the nut.

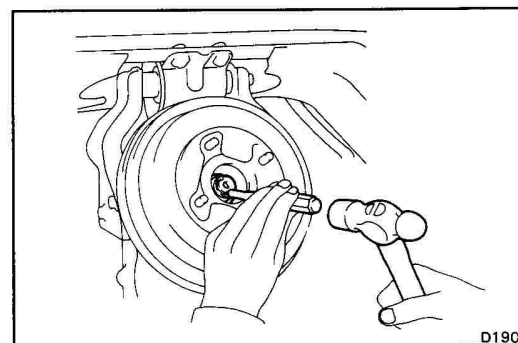
Torque: 1,300 kg-cm (94 ft-lb, 127 N·m)



- (d) Turn the shoe adjuster clockwise until the brake shoes are fully expanded.
- (e) Turn the shoe adjuster counterclockwise one notch.



- (f) With the parking brake pulled its full distance, check to see that the drum is locked.
- (g) Release the parking brake lever and insure that the parking brake is not dragging. If dragging, turn the shoe adjuster clockwise another notch.



9. STAKE NUT

Using a pin punch and hammer, stake the nut.

10. CONNECT PROPELLER SHAFT (See page PR-11)

11. CHECK AND ADJUSTMENT OF PARKING BRAKE LEVER TRAVEL (See page BR-8)