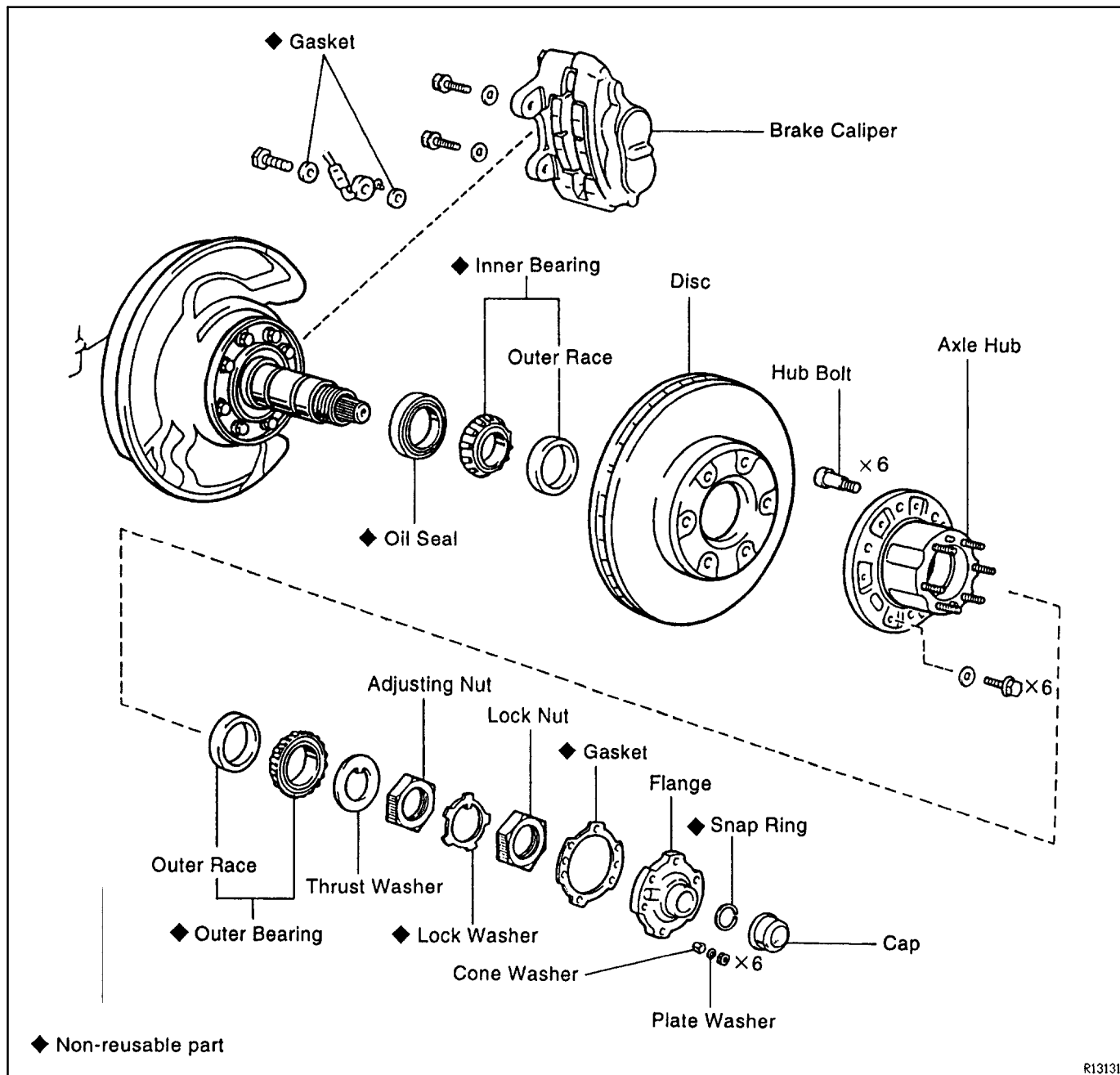
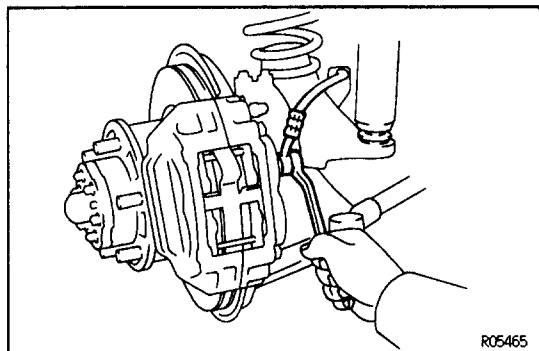


FRONT AXLE HUB COMPONENTS



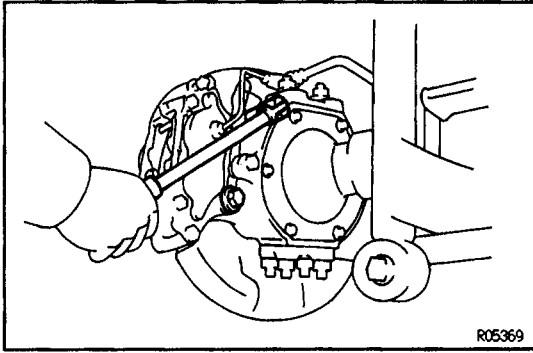
R13131



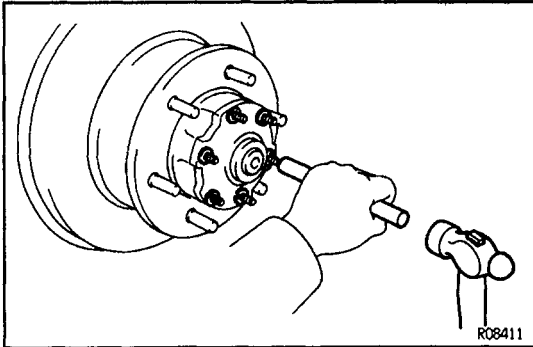
R05465

FRONT AXLE HUB REMOVAL

1. **REMOVE FRONT WHEEL**
2. **REMOVE BRAKE CALIPER**
 - (a) Remove the union bolt and 2 gaskets from the brake caliper, then disconnect the flexible hose from the brake caliper.
 - (b) Use a container to catch the brake fluid as it drains out.

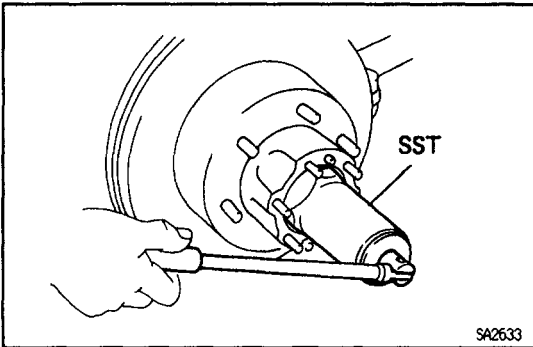


- (c) Remove the 2 mounting bolts, washers and caliper.



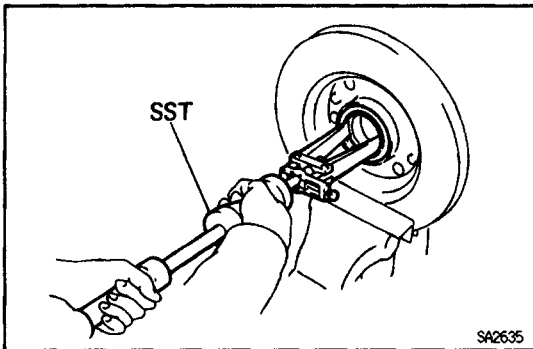
3. REMOVE FLANGE

- Using a screwdriver and hammer, remove the grease cap from the flange.
- Using a snap ring expander, remove the snap ring.
- Remove the 6 mounting nuts and plate washers.
- Using a brass bar and hammer, tap on the bolts heads and remove the 6 cone washers.
- Remove the flange.
- Remove the gasket.



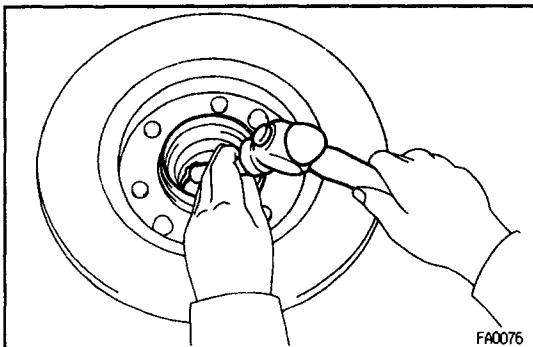
4. REMOVE AXLE HUB WITH DISC

- Using a screwdriver, release the lock washer.
- Using SST, remove the lock nut.
SST 09607-60020
- Remove the lock washer.
- Using SST, remove the adjusting nut and thrust washer.
SST 09607-60020
- Remove the hub and disc together with the outer bearing.



5. REMOVE OIL SEAL AND INNER BEARING

- Using SST, remove the oil seal.
SST 09308-00010
- Remove the inner bearing from the hub.



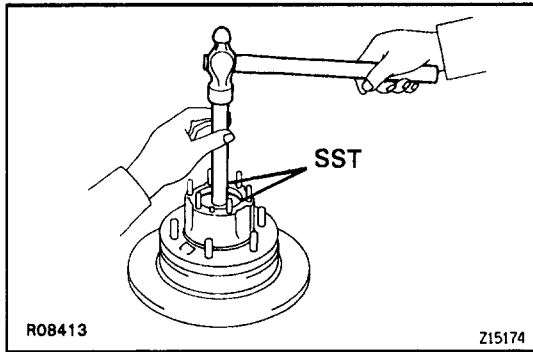
FRONT AXLE HUB INSPECTION AND REPAIR

1. INSPECT BEARINGS

Clean the bearings and outer races and inspect them for wear or damage.

2. REPLACE BEARING OUTER RACES

- Using a brass bar and hammer, remove the bearing outer races.

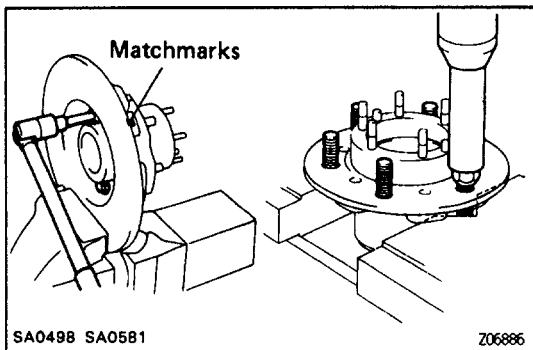


- (b) Using SST and a hammer, carefully install a new bearing outer races.

SST 09608-35014,

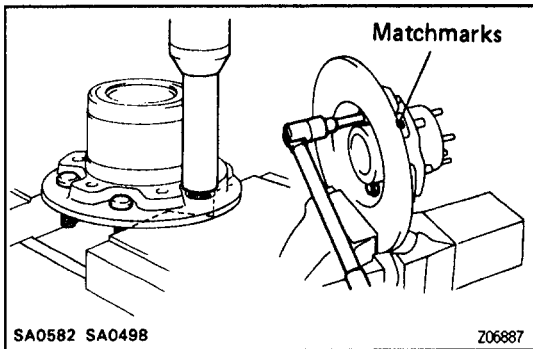
Outside race (09608-06020, 09608-06200)

Inside race (09608-06020, 09608-06210)



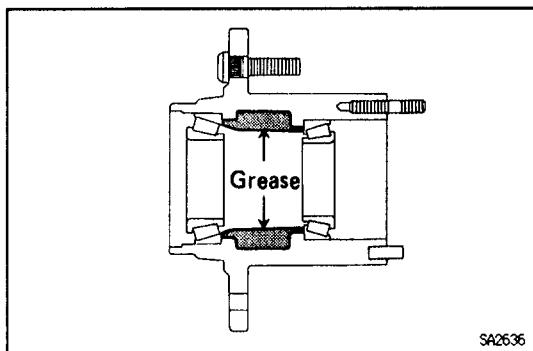
3. REPLACE HUB BOLTS

- Place matchmarks on the axle hub and disc.
- Remove the 6 bolts and disc from the axle hub.
- Install the nut to the hub bolt.
- Using an extension bar and a press, remove the hub bolt.



- Using an extension bar and a press, install a new hub bolt.
- Align the matchmarks on the axle hub and disc.
- Install and torque the 6 bolts.

Torque: 64 N·m (650 kgf·cm, 47 ft·lbf)

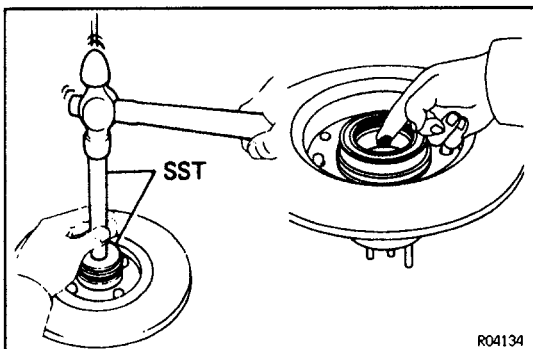


FRONT AXLE HUB INSTALLATION

1. PACK BEARINGS WITH MP GREASE

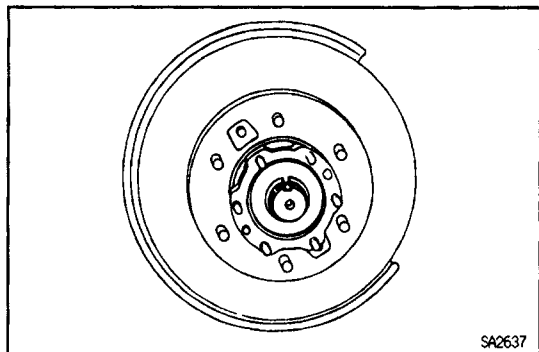
- Place MP grease in the palm of your hand.
- Pack grease into the bearing until the grease oozes out from the other side.
- Do the same around the bearing circumference.

2. COAT INSIDE OF HUB WITH MP GREASE



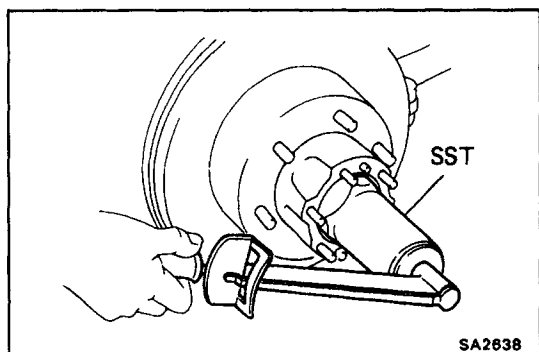
3. INSTALL INNER BEARING AND OIL SEAL

- Place the inner bearing into the hub.
- Using SST, install a new oil seal into the hub.
SST 09608-35014 (09608-06020, 09608-06150)
- Coat the oil seal lip with MP grease.



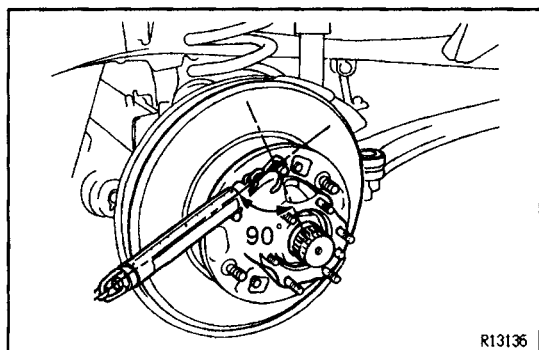
4. INSTALL AXLE HUB WITH DISC TO SPINDLE

- Place the axle hub with disc to the spindle.
- Install the outer bearing.
- Install the thrust washer.



5. ADJUST PRELOAD

- Using SST, torque the adjusting nut.
SST 09607-60020
Torque: 59 N·m (600 kgf·cm, 43 ft·lbf)
- Turn the hub right and left 2 or 3 times.
- Using SST, torque the adjusting nut.
SST 09607-60020
Torque: 59 N·m (600 kgf·cm, 43 ft·lbf)
- Loosen the nut until it can be turned by hand.



- Using a spring tension gauge, measure the preload.
Preload (starting):

28-56 N (2.9-5.7 kgf, 6.4-12.6 lbf)

6. INSTALL LOCK WASHER AND LOCK NUT

- Install a new lock washer and lock nut.
- Using SST, torque the lock nut.
SST 09607-60020
Torque: 64 N·m (650 kgf·cm, 47 ft·lbf)
- Check that the bearing has no play.
- Using a spring tension gauge, check the preload.

Preload (starting):

28-56 N (2.9-5.7 kgf, 6.4-12.6 lbf)

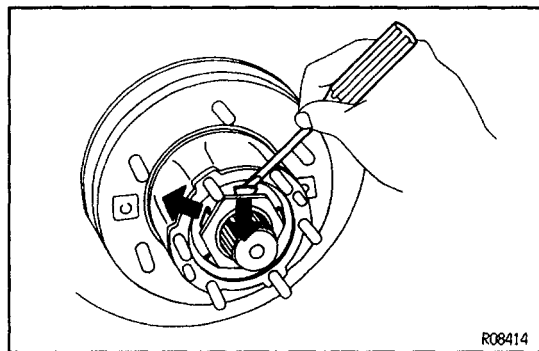
If it is not within specification, adjust with the adjusting nut after removing the lock washer and lock nut.

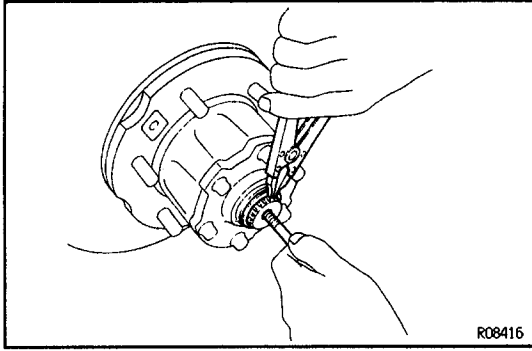
- Secure the lock nut by bending one of the lock washer teeth inward and the other lock washer teeth outward.

7. INSTALL FLANGE

- Place a new gasket in position on the axle hub.
- Apply MP grease to inner flange splines.
- Install the flange to the axle hub.
- Install the 6 cone washers, plate washers and nuts.
- Torque the 6 nuts.

Torque: 35 N·m (360 kgf·cm, 26 ft·lbf)





- (f) Install the bolt in the axle shaft and pull it out.
- (g) Using a snap ring expander, install a new snap ring.
- (h) Remove the bolts.
- (i) Coat inside of the cap with MP grease.
- (j) Install the cap to the flange.

8. INSTALL BRAKE CALIPER

- (a) Install the brake caliper, 2 washers and bolts.
- (b) Torque the 2 mounting bolts.

Torque: 123 N·m (1,250 kgf·cm, 90 ft·lbf)

- (c) Install the flexible hose on the brake caliper with 2 new gaskets.

Torque: 30 N·m (310 kgf·cm, 22 ft·lbf)

HINT: Install the flexible hose lock securely in the lock hole in the brake caliper.

9. INSTALL FRONT WHEEL

Torque:

Steel wheel:

147 N·m (1,500 kgf·cm, 109 ft·lbf)

Aluminum wheel:

103 N·m (1,050 kgf·cm, 76 ft·lbf)

10. BLEED BRAKE LINE

(See page [BR-6](#))