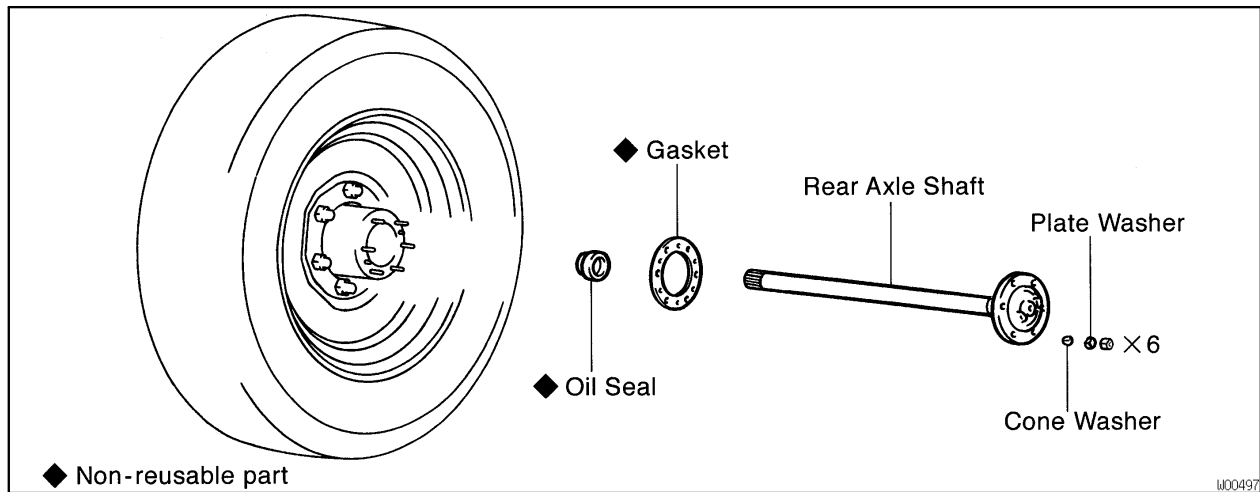
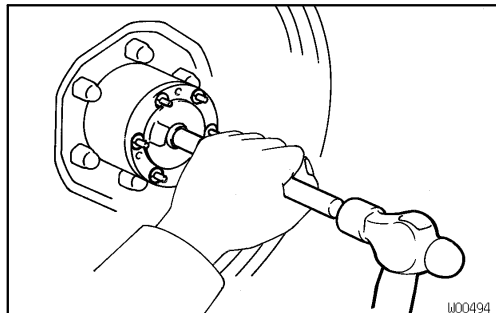


# REAR AXLE SHAFT COMPONENTS

SA1V4-01

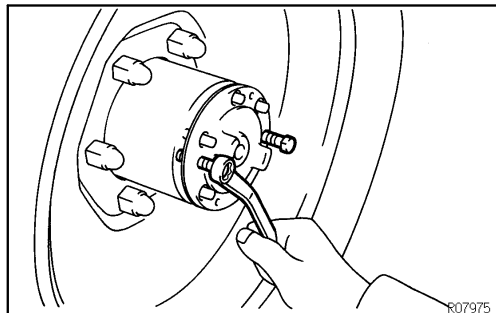




## REMOVAL

### REMOVE REAR AXLE SHAFT

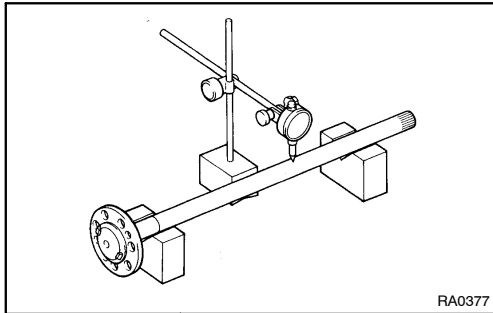
- (a) Remove the 6 set nuts and plate washers.  
**Torque: 34 N·m (340 kgf·cm, 25 ft·lbf)**
- (b) Using a brass bar and hammer, strike the center part of the axle shaft to remove the 6 cone washers.



- (c) Install and gradually tighten 2 bolts evenly and pull the axle shaft.
- (d) Remove the 2 bolts from the rear axle shaft.
- (e) Remove the rear axle shaft and gasket.

### NOTICE:

**Be careful not to damage the oil seal.**



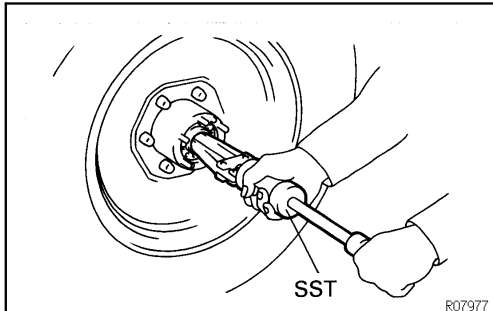
## INSPECTION

### 1. INSPECT REAR AXLE SHAFT

- (a) Check for wear or damage.
- (b) Using a dial indicator, check the runout of axle shaft.

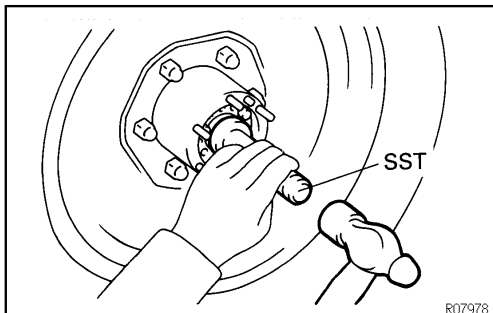
**Maximum runout: 0.8 mm (0.031 in.)**

If the runout is greater than the maximum, replace the axle shaft.



### 2. REPLACE OIL SEAL

- (a) Using SST, remove the oil seal.  
SST 09308-00010



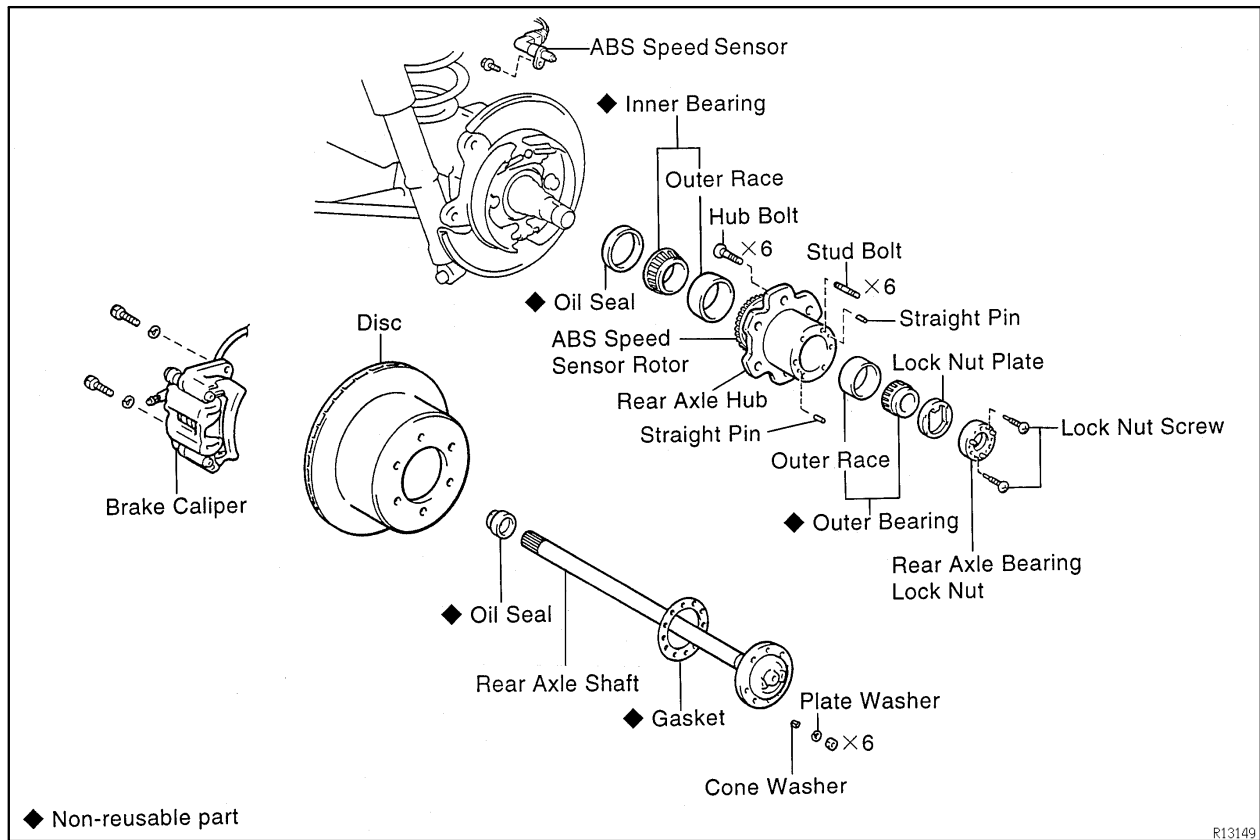
- (b) Using SST and a hammer, install a new oil seal into the hub.  
SST 09517-36010
- (c) Apply MP grease to the oil seal lip.

## INSTALLATION

Installation is in the reverse order of removal (See page [SA-63](#)).

# REAR AXLE HUB COMPONENTS

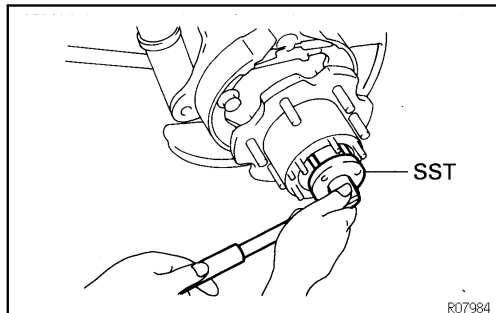
SA1V8-01



## REMOVAL

1. REMOVE REAR WHEEL
2. REMOVE REAR AXLE SHAFT (See page SA-63)
3. REMOVE BRAKE CALIPER AND DISC  
(See page BR-34)
4. DISCONNECT ABS SPEED SENSOR

Remove the bolt and disconnect the ABS speed sensor.

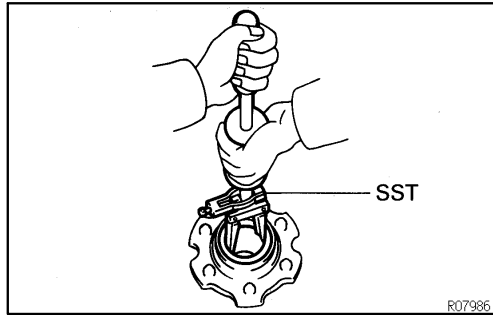


5. REMOVE REAR AXLE BEARING LOCK NUT

- (a) Remove the 2 screws from the lock nut.
- (b) Using SST, remove the lock nut.  
SST 09509-25011

6. REMOVE REAR AXLE HUB

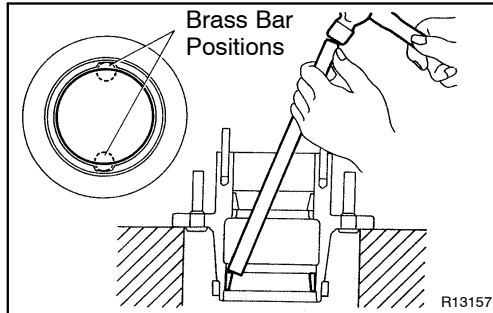
- (a) Pull out the axle hub, remove the lock nut plate and outer bearing.
- (b) Remove the axle hub.



## REPLACEMENT

### 1. REMOVE OIL SEAL AND INNER BEARING

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

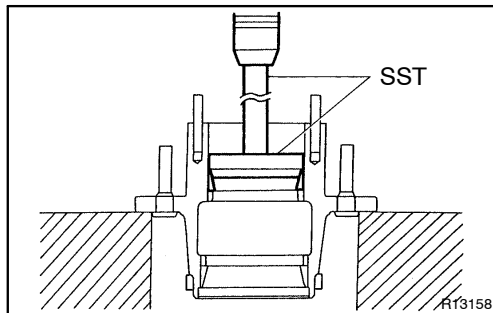


### 2. REMOVE BEARING OUTER RACE

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

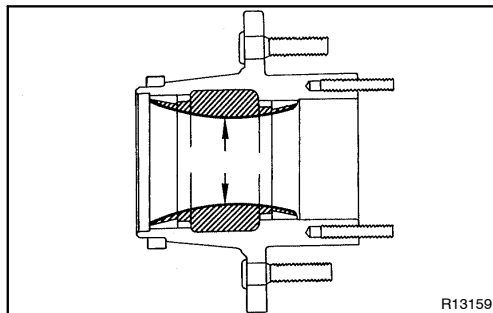
#### NOTICE:

Be careful not to damage the ABS speed sensor rotor.



### 3. INSTALL BEARING OUTER RACE

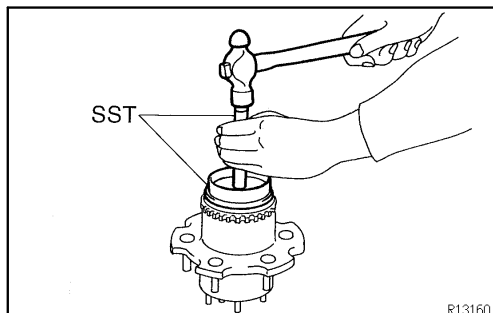
- Outside race:  
Using SST and a press, install new bearing outer races.  
SST 09950-60020 (09951-00710),  
09950-70010 (09951-07150)
- Inside race:  
Using SST and a press, install new bearing outer races.  
SST 09950-60020 (09951-00810),  
09950-70010 (09951-07150)



### 4. PACK BEARINGS WITH MP GREASE

- (a) Place MP grease on the palm of your hand.
- (b) Pack grease into the bearing until the grease ooze out from the other side.
- (c) Do the same around the bearing circumference.

### 5. COAT INSIDE OF HUB WITH MP GREASE



### 6. INSTALL INNER BEARING AND OIL SEAL

- (a) Place inner bearing into the hub.
- (b) Using SST, install a new oil seal into the hub.  
SST 09223-15020, 09950-70010 (09951-07150)
- (c) Apply MP grease to the oil seal lip.

## INSTALLATION

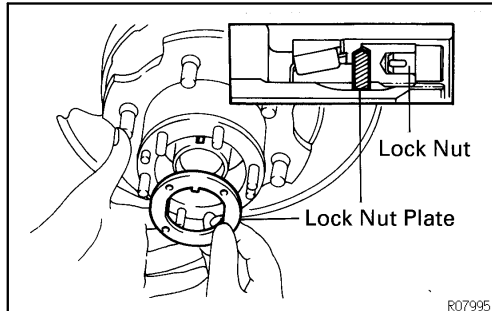
### 1. INSTALL REAR AXLE HUB

- Clean the hub installation position of the axle housing and apply MP grease thinly.
- Place the axle hub to the axle housing.

#### NOTICE:

**Be careful not to damage the oil seal.**

- Install the outer bearing.

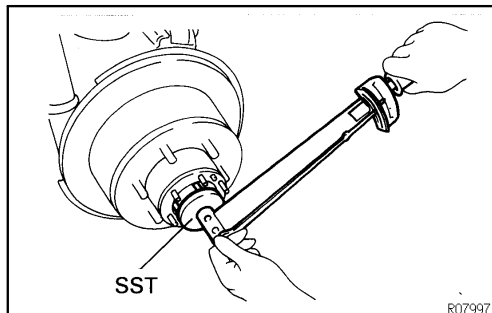


### 2. INSTALL LOCK NUT PLATE AND REAR AXLE BEARING LOCK NUT

- Place the lock nut plate on the axle housing, making sure the tongue lines up with the key groove.
- Temporarily install the lock nut.

### 3. INSTALL DISC

Install the disc to the rear axle hub and temporarily install the 2 hub nuts.

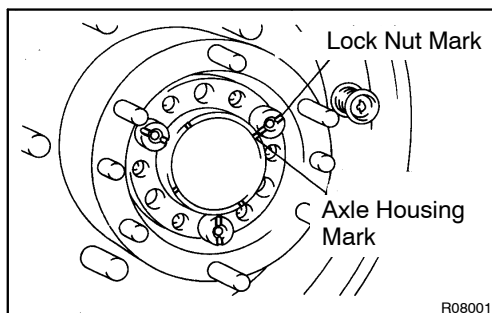
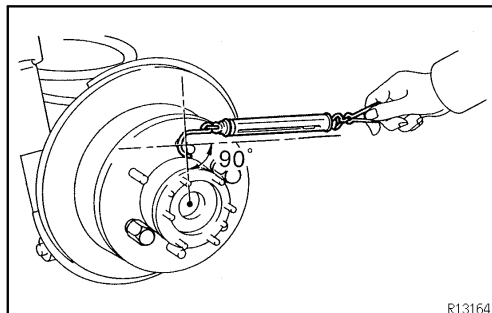


### 4. ADJUST PRELOAD

- Using SST, torque the bearing lock nut.  
SST 09509-25011  
**Torque: 59 N·m (600 kgf·cm, 43 ft·lbf)**
- Make the bearing smooth by turning the hub several times.
- Using the SST, retighten the bearing lock nut.  
**Torque: 59 N·m (600 kgf·cm, 43 ft·lbf)**
- Using the SST, loosen the nut until it can be turned by hand.
- Using a spring tension gauge, check the preload and tighten the nut until the preload is within the specification.  
**Preload (at starting):  
26-57 N (2.6-5.8 kgf, 5.7-12.8 lbf)**

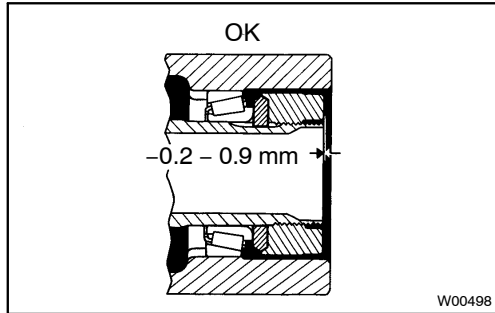
#### NOTICE:

**Make sure that there is no contact with the parking brake shoe.**



- Align the mark on the bearing lock nut and tip of axle housing under the above preload range.





- (g) Check the distance between top surface of axle housing and the lock nut.

**Standard distance:**

**-0.2 - 0.9 mm (-0.0079 - 0.0354 in.)**

If the distance is greater than the specification, reassemble the lock nut plate.

- (h) Check that the hub with disc rotates smoothly and hub has no axial play.

**5. INSTALL BEARING LOCK NUT SCREW**

Tighten the 2 lock nut screws.

**Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)**

**6. CONNECT ABS SPEED SENSOR**

Connect the ABS speed sensor install the bolt.

**Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)**

**7. INSTALL BRAKE CALIPER (See page [BR-38](#))**

**8. INSTALL REAR AXLE SHAFT (See page [SA-65](#))**

**9. INSTALL REAR 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. CHECK ABS SPEED SENSOR SIGNAL**

(See page [DI-190](#))