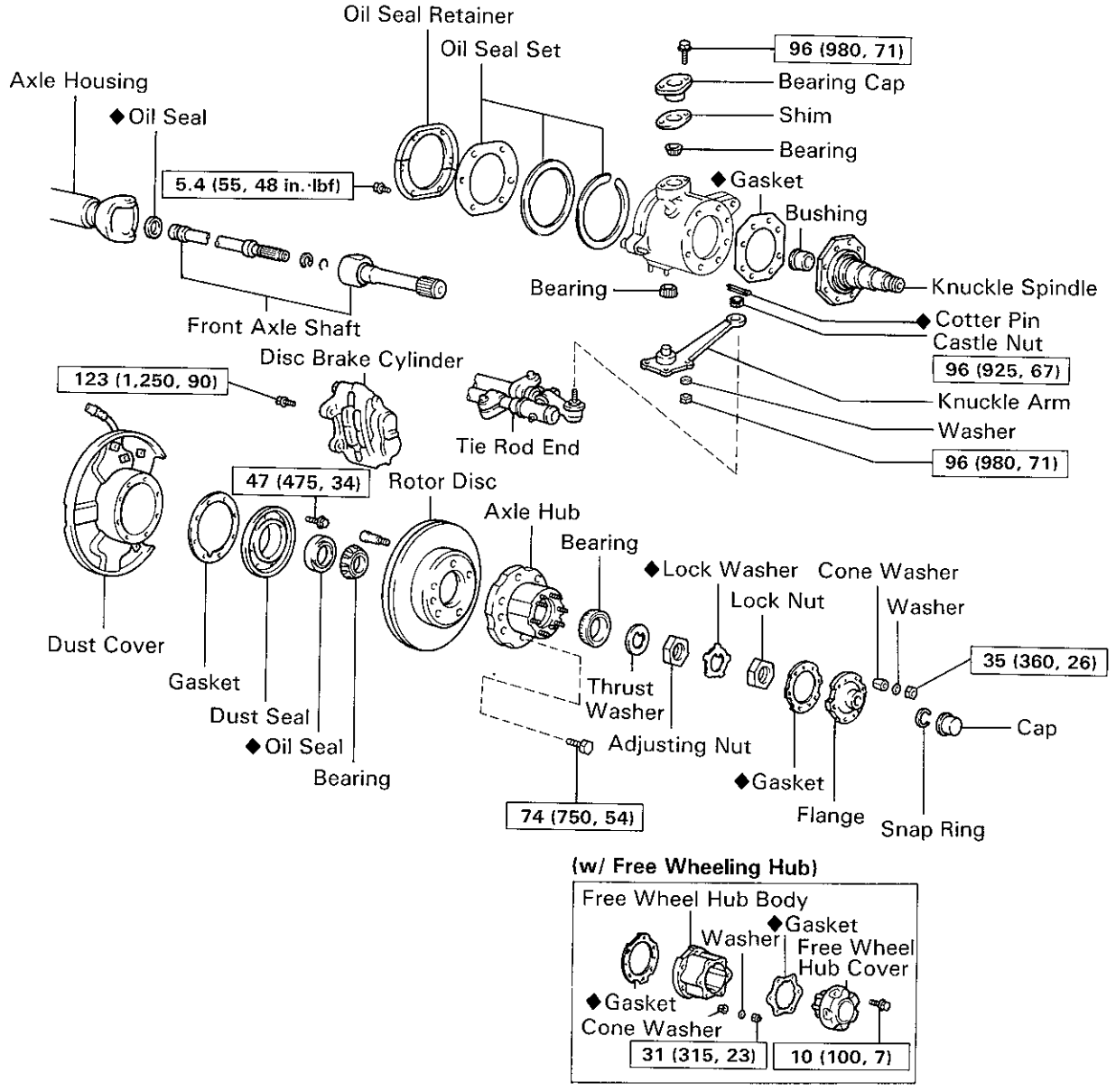
STEERING KNUCKLE AND AXLE SHAFT

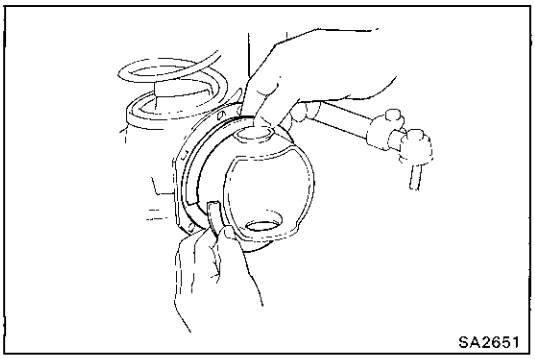
COMPONENTS



N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

R03112


SA2651

ASSEMBLY OF STEERING KNUCKLE AND AXLE SHAFT

(See page SA-77)

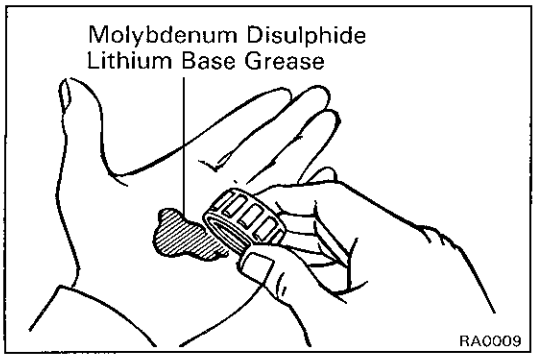
1. INSTALL OIL SEAL SET END RETAINER

Install the parts in the following order.

(a) Felt dust seal

(b) Rubber seal

(c) Steel ring



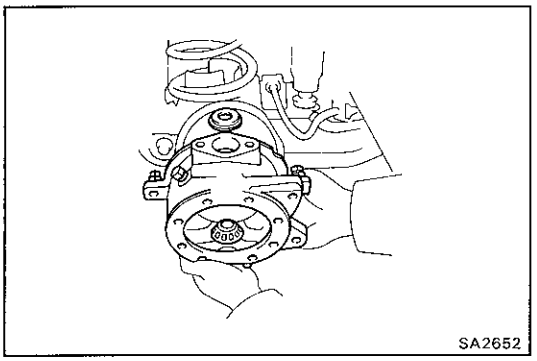
RA0009

2. PACK BEARINGS WITH MOLYBDENUM DISULPHIDE LITHIUM BASE GREASE

(a) Place molybdenum disulphide lithium base grease in the palm of your hand.

(b) Pack grease into the bearing, continuing until the grease oozes out from the other side.

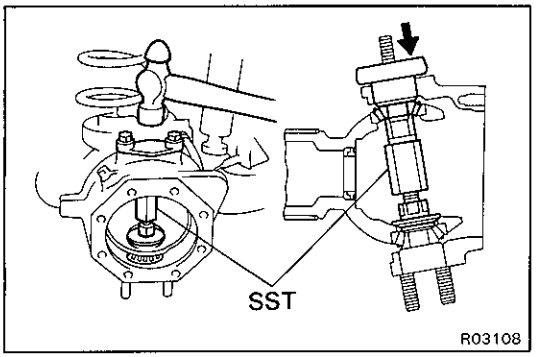
(c) Do the same around the bearing circumference.


SA2652

3. INSTALL STEERING KNUCKLE AND BEARINGS

(a) Place the bearings in positions on the knuckle and axle housing.

(b) Insert the knuckle on the axle housing.



R03108

4. INSTALL KNUCKLE ARM AND BEARING CAP

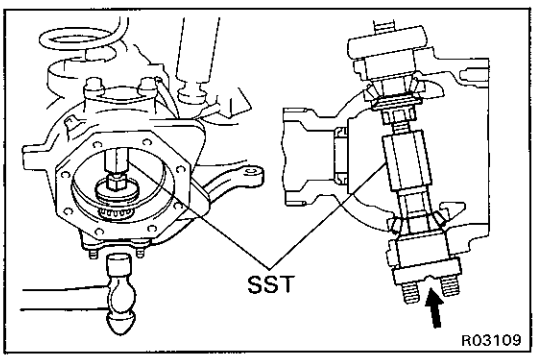
(a) Using SST, support the upper bearing inner race.

SST 09606-60020

HINT: Use SST with a collar.

(b) Install the bearing cap or the third arm over the shims that were originally used or were selected as described in the adjustment operations.

(c) Using a hammer, tap the bearing cap into the bearing inner race.



R03109

(d) Using SST, support the lower bearing inner race.

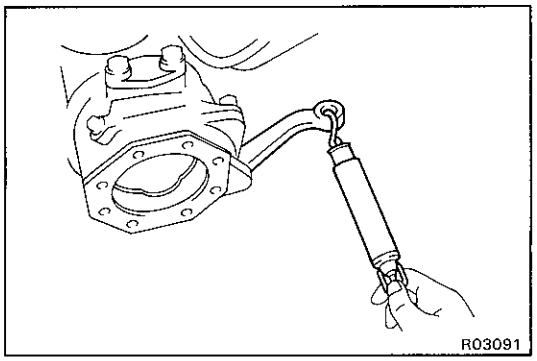
SST 09606-60020

(e) Install the knuckle arm over the shims that were originally used or were selected in the adjustment operations.

(f) Using a hammer, tap the knuckle arm into the bearing inner race.

(g) Remove SST from the knuckle.

SST 09606-60020



5. **MEASURE BEARINGS PRELOAD**

Using a spring tension gauge, measure the preload.

Preload (starting): 25 — 44 N (2.5 — 4.5 kgf, 5.6 — 9.9 lbf)

6. **ADJUST BEARING PRELOAD**

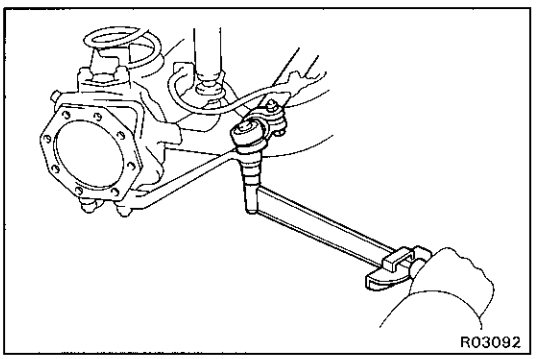
(a) Remove the bearing cap and the knuckle arm. (See Pub. No. RM184E, see page SA-15)

(b) Select the adjusting shims.

Adjusting shim thickness

Thickness mm (in.)
0.1 (0.004)
0.2 (0.008)
0.5 (0.020)
1.0 (0.039)

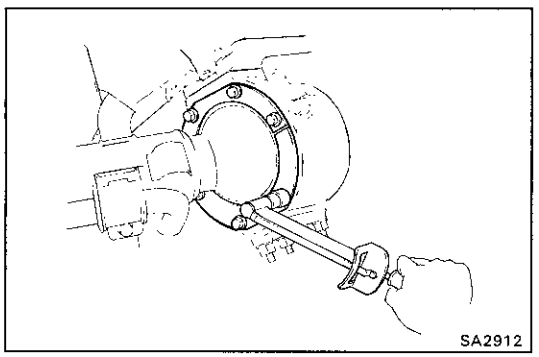
(c) Install the bearing cap and knuckle arm. (See Pub. No. RM184E, see page SA-19)



7. **CONNECT TIE ROD TO KNUCKLE ARM**

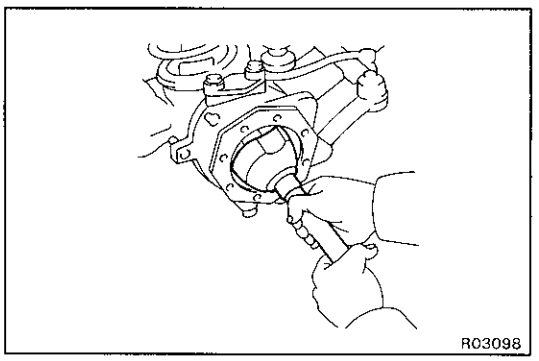
Torque the castle nut and secure it with a cotter pin.

Torque: 91 N·m (925 kgf·cm, 67 ft·lbf)



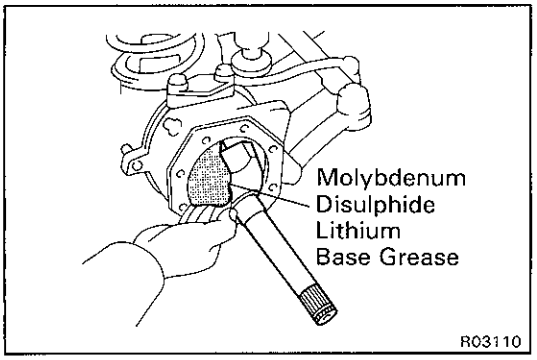
8. **INSTALL OIL SEAL SET RETAINER TO KNUCKLE**

Install the oil seal set retainer to steering knuckle with the six bolts.



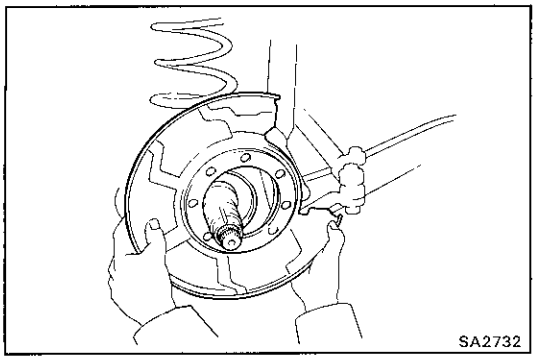
9. **INSTALL AXLE SHAFT**

Position one flat part of the outer shaft upward, and install the shaft.



10. PACK MOLYBDENUM DISULPHIDE LITHIUM BASE GREASE

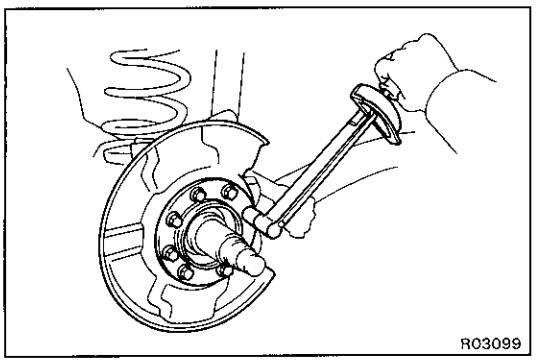
Pack molybdenum disulphide lithium base grease into the knuckle to about three fourths of the knuckle.



11. INSTALL KNUCKLE SPINDLE DUST COVER WITH NEW GASKETS AND DUST SEAL

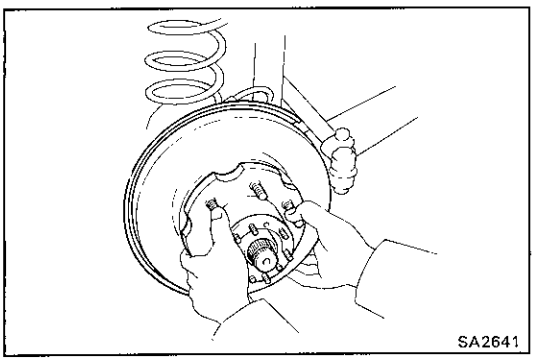
(a) Place a new gasket in the position on the knuckle and install the spindle.

(b) Place the gasket, dust cover and seal on the spindle.



(c) Install and torque the spindle mounting bolts.

Torque: 47 N·m (475 kgf·cm, 34 ft·lbf)



12. INSTALL AXLE HUB
(See Pub. No. RM184E, see page SA-15)