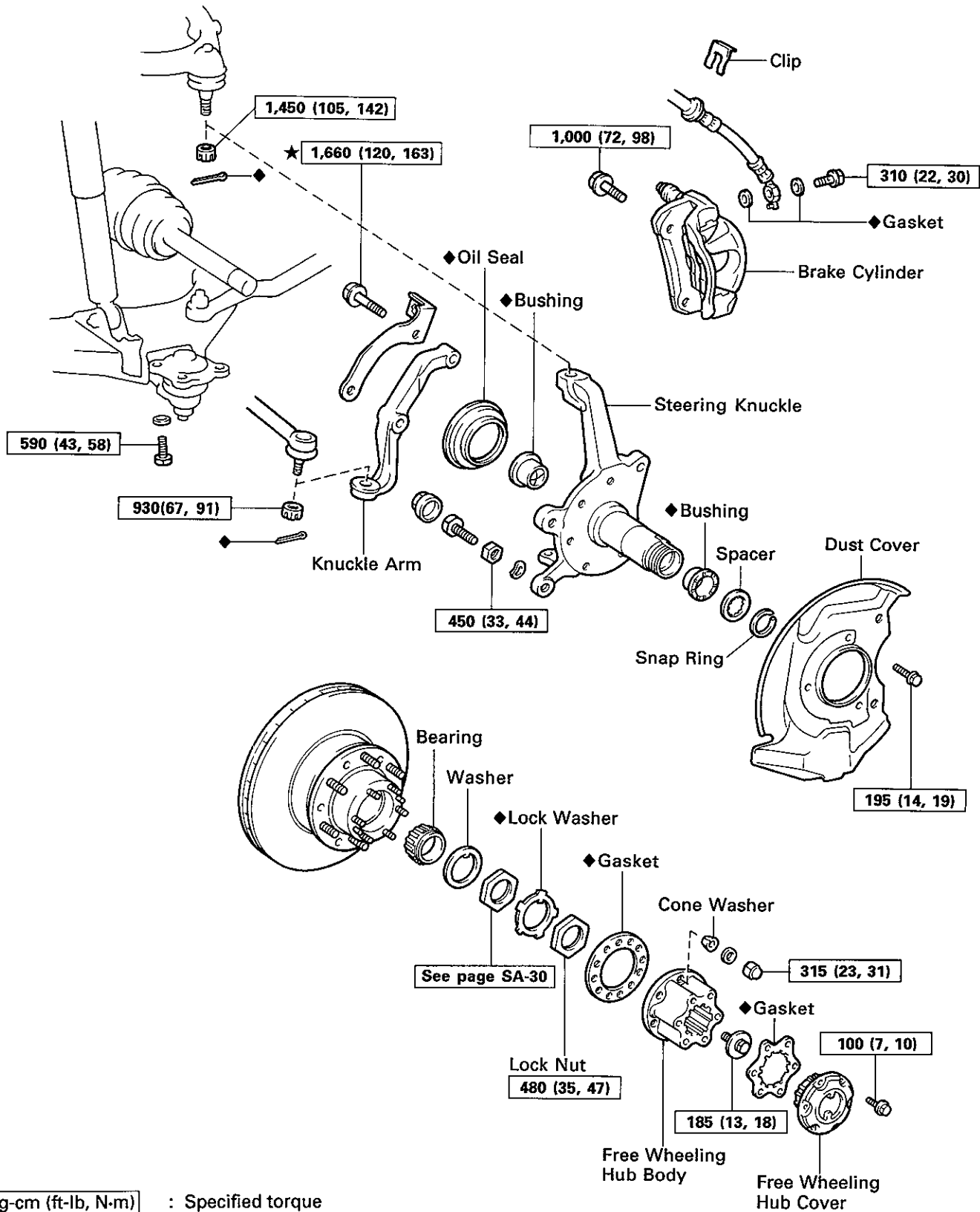


Steering Knuckle

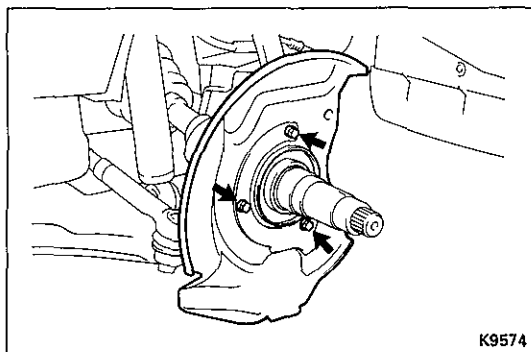
COMPONENTS



kg-cm (ft-lb, N-m) : Specified torque

◆ Non-reusable part

★ Precoated part



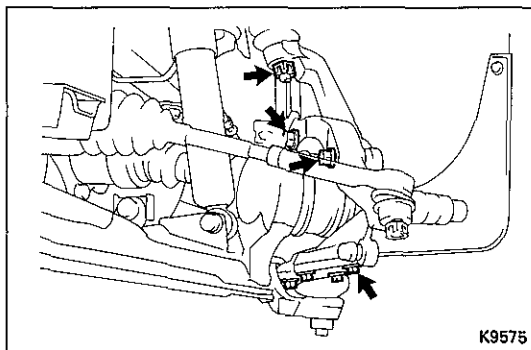
REMOVAL OF STEERING KNUCKLE

1. REMOVE FRONT AXLE HUB

(See page SA-28)

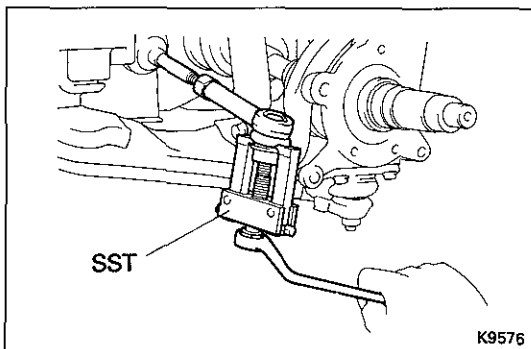
2. REMOVE BRAKE DUST COVER

Remove the three bolts and the brake dust cover.



3. LOOSEN BOLTS AND NUTS

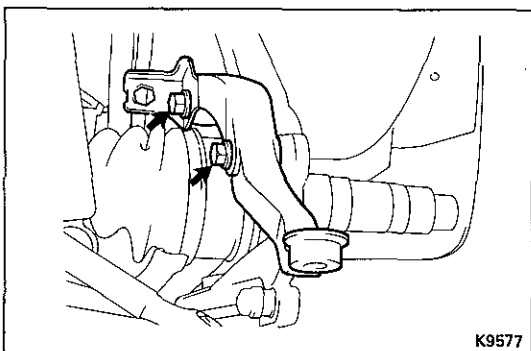
- (a) Loosen the two bolts of the steering knuckle arm.
- (b) Loosen the four bolts of the lower ball joint.
- (c) Remove the cotter pin and loosen the nut of the upper ball joint.



4. DISCONNECT TIE ROD

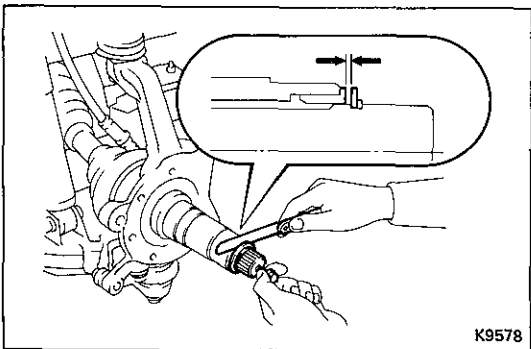
- (a) Remove the cotter pin and nut.
- (b) Using SST, disconnect the tie rod from the steering knuckle arm.

SST 09628-62011



5. REMOVE STEERING KNUCKLE ARM

Remove the two bolts, brake hose bracket and steering knuckle arm.

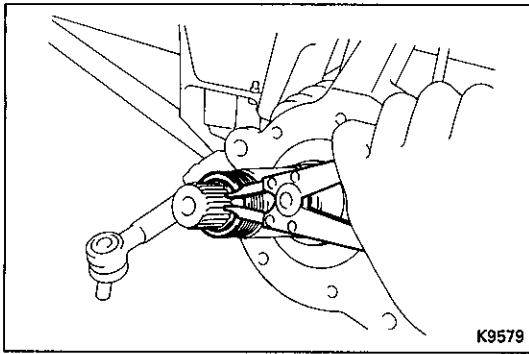


6. MEASURE STEERING KNUCKLE BUSHING THRUST CLEARANCE

- (a) Install a bolt in the drive shaft.
- (b) Using a feeler gauge, measure the front drive shaft thrust clearance between the steering knuckle outside bushing and spacer when the bolt is pulled by applying 10 kg (22lb, 98 N) of force.

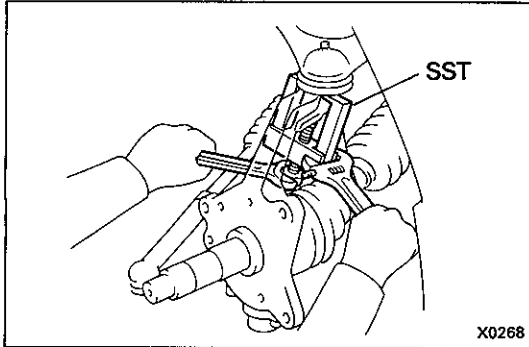
Clearance: 0.1 – 0.5 mm (0.004 – 0.020 in.)

If the measurement is not within the specification, replace the steering knuckle bushings.



7. REMOVE SNAP RING AND SPACER

Using a snap ring expander, remove the snap ring and spacer.

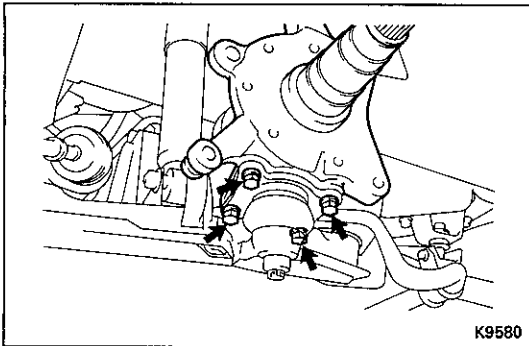


8. DISCONNECT UPPER ARM

(a) Remove the nut.

(b) Using SST, disconnect the upper arm from the steering knuckle.

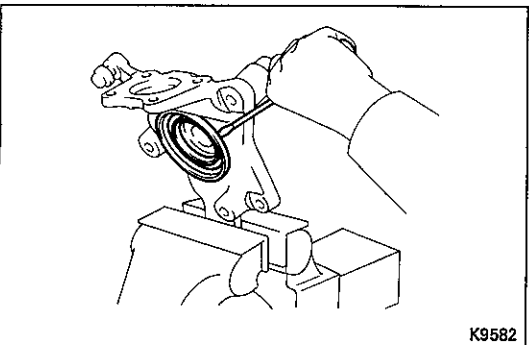
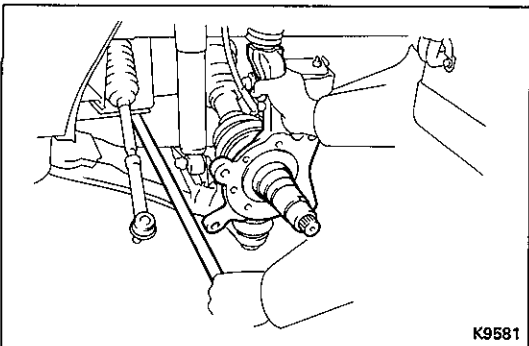
SST 09628-62011



9. REMOVE STEERING KNUCKLE

(a) Remove the four bolts and disconnect the steering knuckle from the lower ball joint.

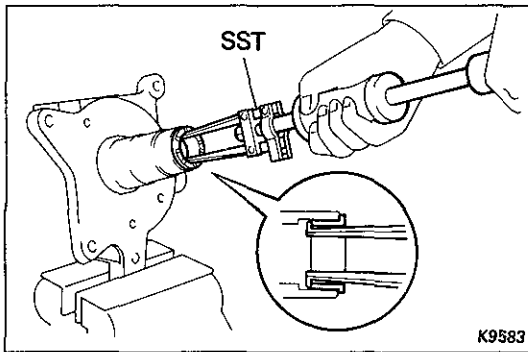
(b) Using a bar, push the lower suspension arm down and remove the steering knuckle.



REPLACEMENT OF BUSHINGS

1. REMOVE OIL SEAL

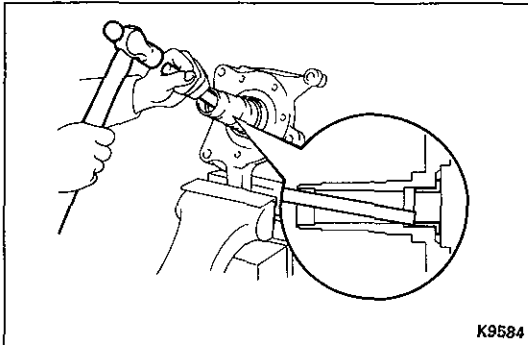
Using a screwdriver, remove the oil seal.



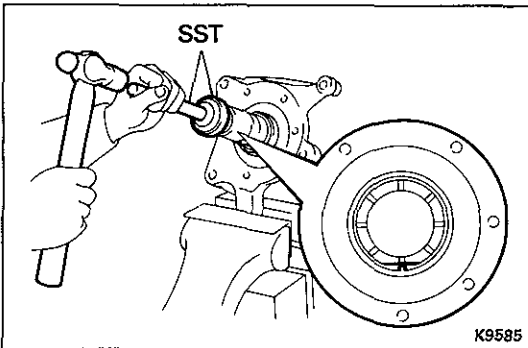
2. REMOVE BUSHINGS

(a) Using SST, remove the outside bushing.

SST 09308-00010



(b) Using a brass bar and hammer, remove the inside bushing.

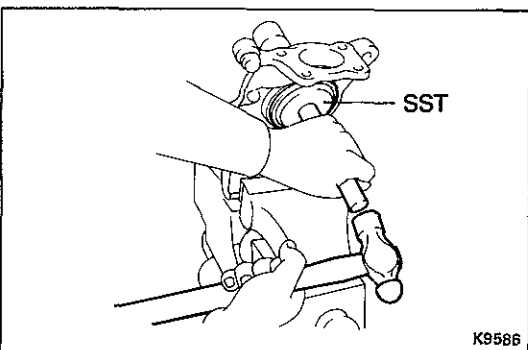


3. INSTALL BUSHINGS

Using SST, install new bushings.

SST 09608-35014 (09608-06020, 09608-06090)

NOTICE: When installing the outside bushing to the spindle, make sure the flat portion of the bushing is aligned with the spindle groove as shown in the illustration.

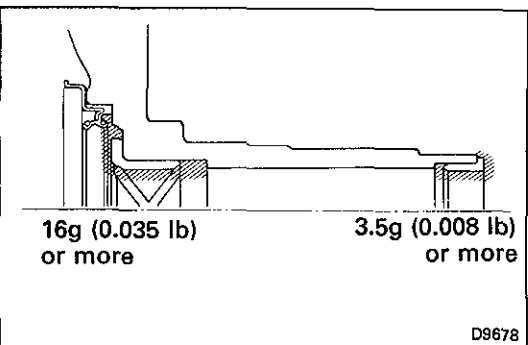


4. INSTALL OIL SEAL

(a) Using SST, install a new oil seal.

SST 09608-35014 (09608-06020, 09608-06180)

(b) Coat the lip of the oil seal with molybdenum disulphide lithium base grease.



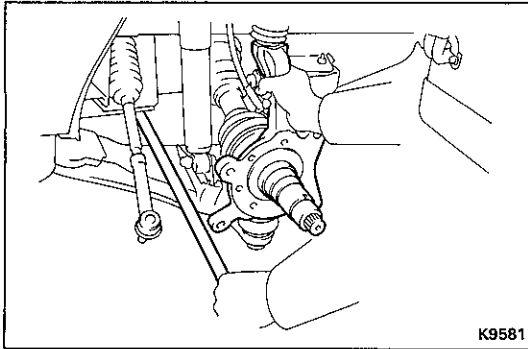
INSTALLATION OF STEERING KNUCKLE

1. APPLY GREASE TO BUSHINGS

Apply molybdenum disulphide lithium base grease to the bushings.

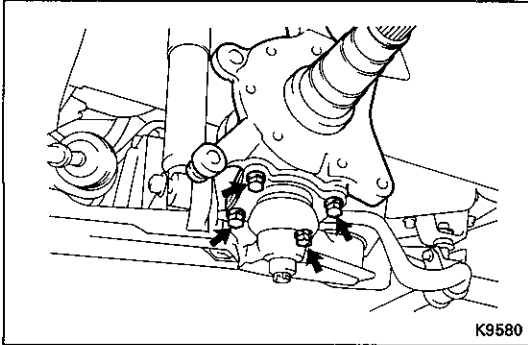
Grease capacity:

Outside	3.5g (0.008 lb) or more
Inside	16g (0.035 lb) or more



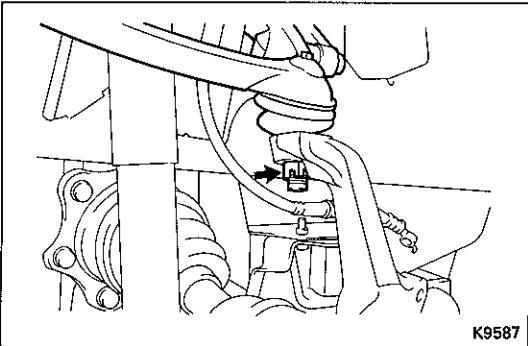
2. INSTALL STEERING KNUCKLE

- (a) Using a bar, push the lower suspension arm down and install the steering knuckle.



- (b) Install the four bolts of the lower ball joint.

Torque: 590 kg-cm (43 ft-lb, 58 N-m)

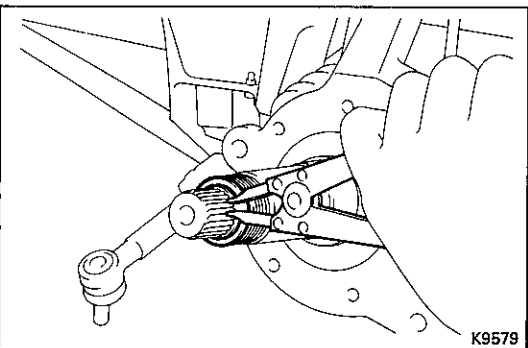


3. CONNECT UPPER ARM

- (a) Install the nut and connect the upper arm to the steering knuckle.

Torque: 1,450 kg-cm (105 ft-lb, 142 N-m)

- (b) Install a new cotter pin.



4. INSTALL SPACER AND SNAP RING

- (a) Install the spacer.

- (b) Using a snap ring expander, install the snap ring.

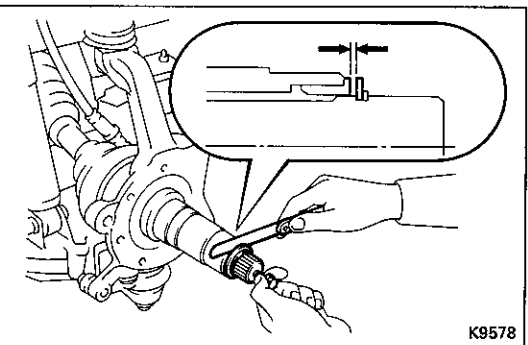
- (c) Using a feeler gauge, measure the front drive shaft thrust clearance between the steering knuckle outside bushing and spacer when the bolt is pulled by applying 10 kg (22 lb, 98 N) of force.

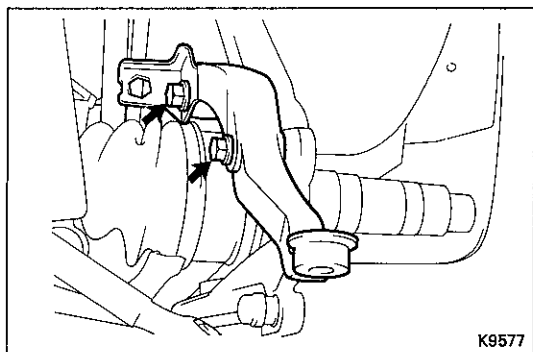
Clearance: 0.1 – 0.5 mm (0.004 – 0.020 in.)

If the measurement is not within specification, replace the spacer.

Spacer thickness:

<p>1.8 mm (0.0709 in.) 2.0 mm (0.0787 in.) 2.25 mm (0.0886 in.)</p>



**5. INSTALL STEERING KNUCKLE ARM**

(a) Clean the threads of the bolts and steering knuckle with cleaner.

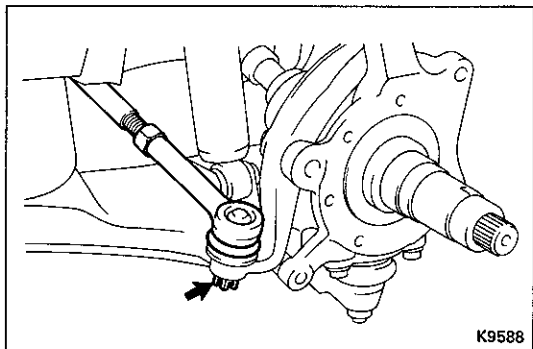
(b) Apply sealant to the bolt threads.

Sealant: Part No.08833-00070, THREE BOND 1324 or equivalent

(c) Install the steering knuckle arm to the steering knuckle with brake hose bracket and torque the bolts.

Torque: 1,660 kg-cm (120 ft-lb, 163 N-m)

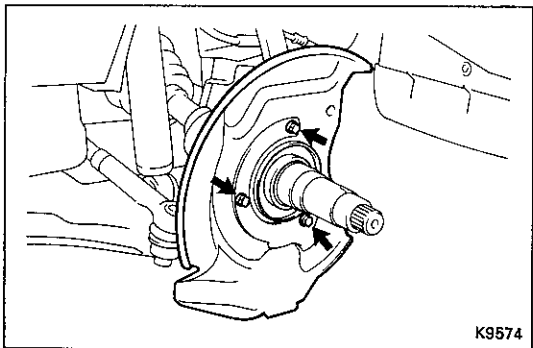
HINT: Torque the bolts within five minutes after applying sealant.

**6. CONNECT TIE ROD**

(a) Connect the tie rod to the steering knuckle arm and torque the nut.

Torque: 930 kg-cm (67 ft-lb, 91 N-m)

(b) Install a new cotter pin.

**7. INSTALL BRAKE DUST COVER**

Install the brake dust cover with three bolts.

Torque: 195 kg-cm (14 ft-lb, 19 N-m)

8. INSTALL FRONT AXLE HUB

(See page SA-30)

9. CHECK WHEEL ALIGNMENT

(See page SA-7)