

FA0734

Steering Knuckle

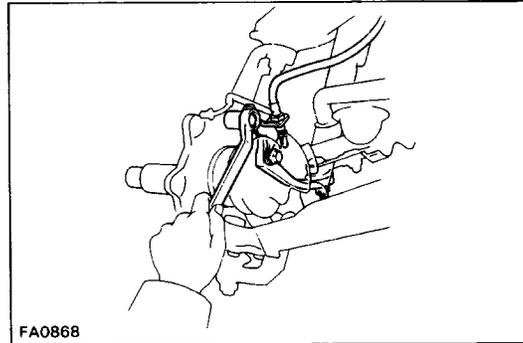
(See page SA-35)

REMOVAL OF STEERING KNUCKLE

1. REMOVE DISC BRAKE CYLINDER AND FRONT AXLE HUB

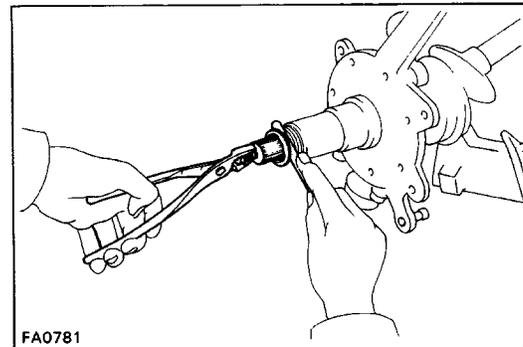
(See page SA-36)

2. REMOVE DUST COVER AND OIL SEAL



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3. DISCONNECT KNUCKLE ARM FROM STEERING KNUCKLE



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4. MEASURE STEERING KNUCKLE BUSHING THRUST CLEARANCE

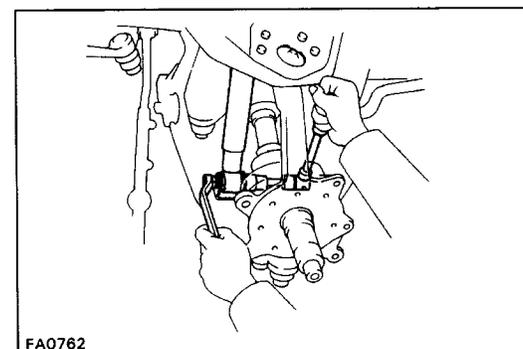
- (a) Install a bolt in the drive shaft.
- (b) Using a feeler gauge, measure the front drive shaft thrust clearance between the steering knuckle outside bushing and spacer, by pulling the bolt and applying 98 N (10 kgf, 22.0 lbf) of pressure.

Front drive shaft thrust clearance:

Standard clearance 0.075 – 0.690 mm
(0.0030 – 0.0272 in.)

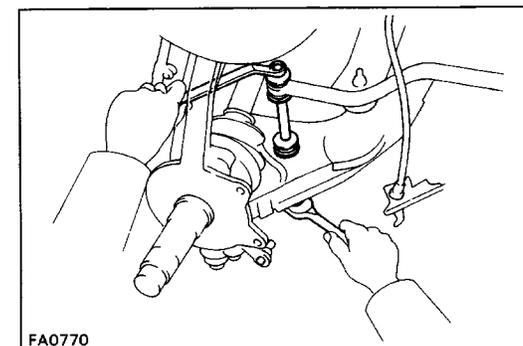
Maximum clearance 1.0 mm (0.039 in.)

If the measurement more than maximum, replace the steering knuckle outside and inside bushings.



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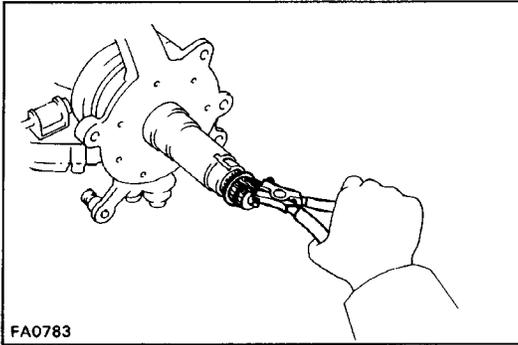
5. DISCONNECT FRONT SHOCK ABSORBER FROM LOWER SUSPENSION ARM



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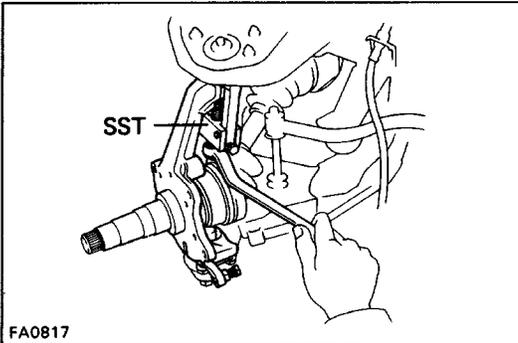
6. DISCONNECT STABILIZER BAR FROM LOWER SUSPENSION ARM

Remove the nut, bolt, retainers, cushions and collar, and disconnect the stabilizer bar from the lower suspension arm.



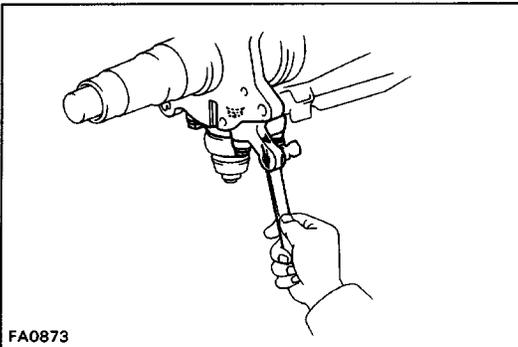
7. REMOVE SNAP RING AND SPACER

Using snap pliers, remove the snap ring and spacer.

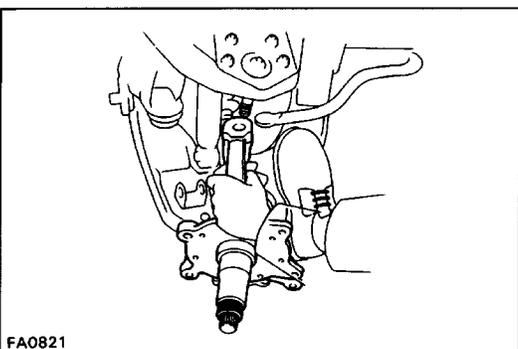


8. REMOVE STEERING KNUCKLE

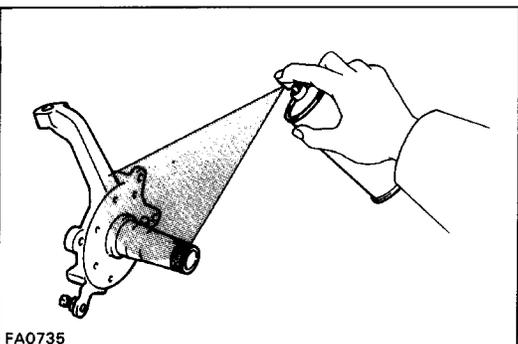
- (a) Remove the cotter pin and nut from the upper ball joint.
- (b) Using SST, disconnect the steering knuckle from the upper ball joint.
SST 09628-62011



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



- (d) Push the lower suspension arm down and remove the steering knuckle.

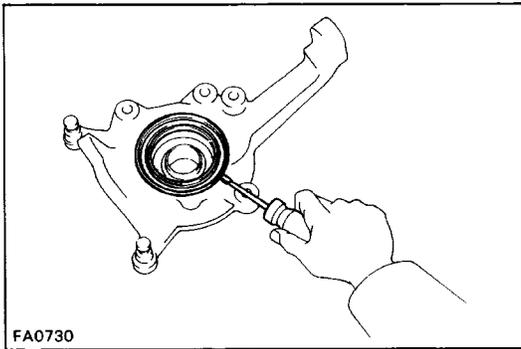


INSPECTION AND REPLACEMENT OF STEERING KNUCKLE

1. INSPECT STEERING KNUCKLE

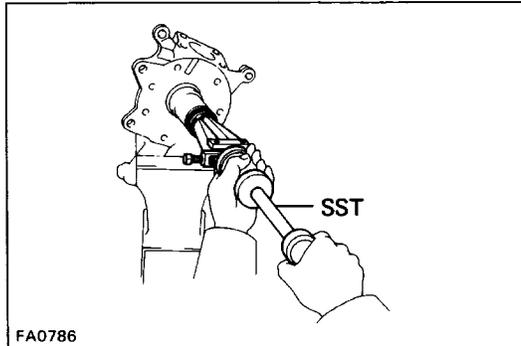
Using a dye penetrant, check the steering knuckle for cracks.

If crack is found, replace the steering knuckle.



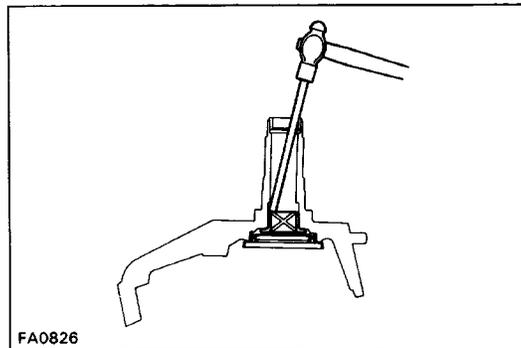
2. REMOVE DUST DEFLECTOR

Using a screwdriver, pry out the dust deflector from the steering knuckle.

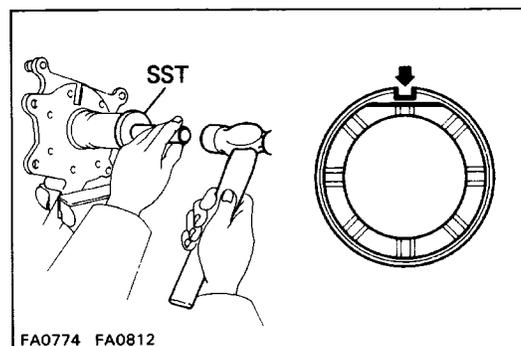


3. REMOVE STEERING KNUCKLE BUSHING

- (a) Using SST, pull out the steering knuckle outside bushing.
SST 09308-00010

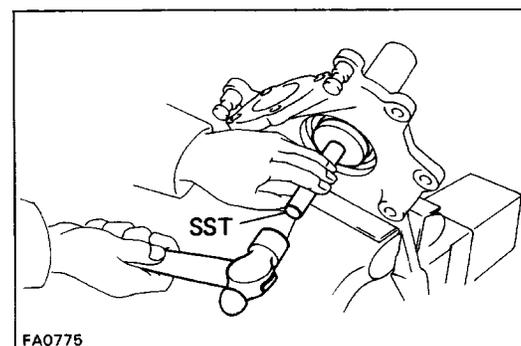


- (b) Using a brass bar and hammer, drive out the steering knuckle inside bushing.

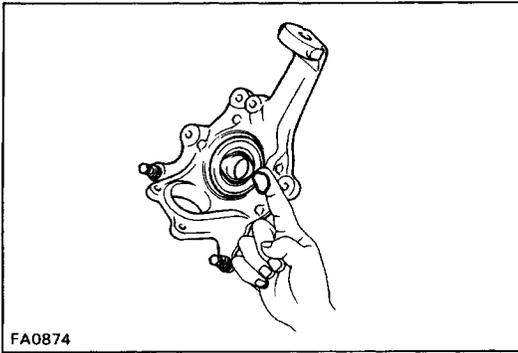


4. INSTALL STEERING KNUCKLE BUSHING

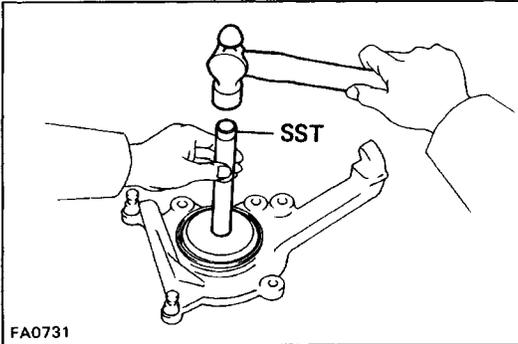
- (a) Using SST and a hammer, tap in a new steering knuckle outside bushing.
SST 09550-10012 (09252-10010, 09555-10010)
HINT: When installing the bushing to the spindle, make sure the flat portion of the bushing is aligned with the spindle groove as shown in the figure.



- (b) Using SST and a hammer, tap in a new steering knuckle inside bushing.
SST 09550-10012 (09252-10010, 09555-10010)

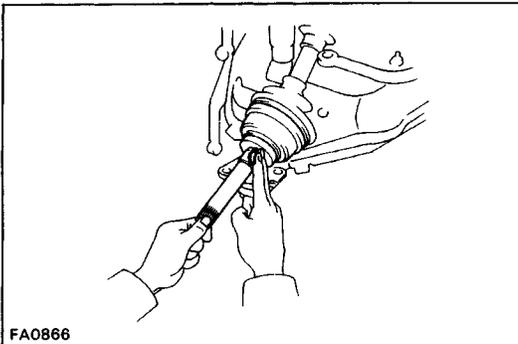


- (c) Apply molybdenum disulphide lithium base grease to the steering knuckle bushings.



5. INSTALL DUST DEFLECTOR TO STEERING KNUCKLE

Using SST and a hammer, tap in a new dust deflector.
SST 09608-35014 (09608-06020, 09608-06180)

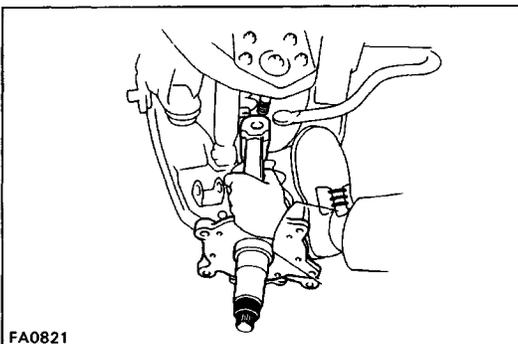


INSTALLATION OF STEERING KNUCKLE

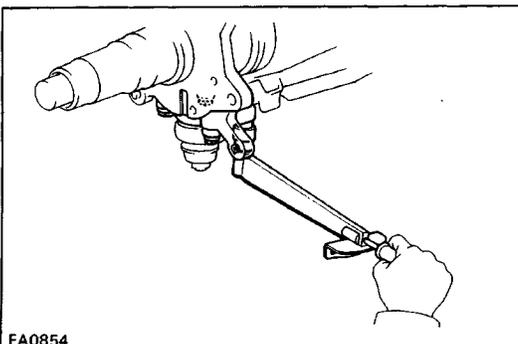
(See page SA-35)

1. INSTALL STEERING KNUCKLE

- (a) Apply molybdenum disulphide lithium base grease to the drive shaft.

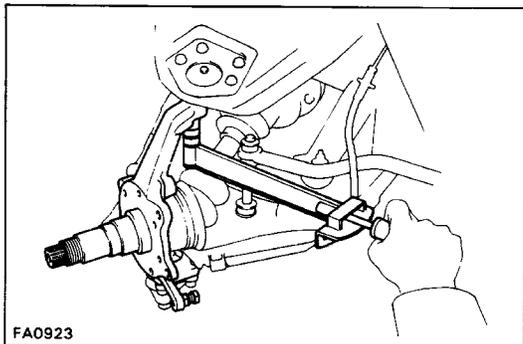


- (b) Push the lower suspension arm down and install the steering knuckle.

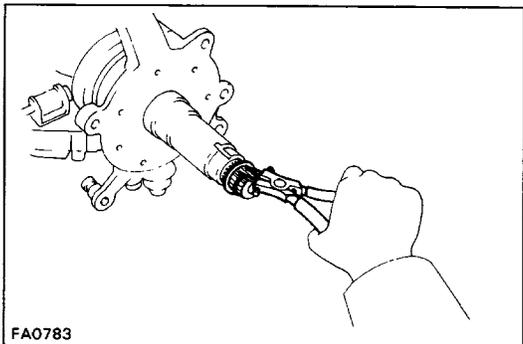


- (c) Connect the lower ball joint to the steering knuckle and install and torque the four bolts.

Torque: 58 N-m (590 kgf-cm, 43 ft-lbf)



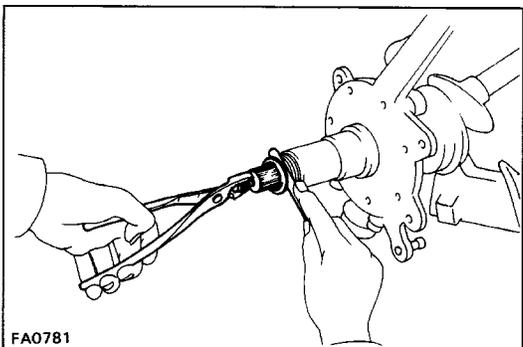
- (d) Connect the upper ball joint to the steering knuckle and install and torque the nut.
Torque: 142 N-m (1,450 kgf-cm, 105 ft-lbf)
- (e) Install a new cotter pin.



2. INSTALL SPACER AND SNAP RING

Install the spacer to the front drive shaft, and using snap ring pliers, install the snap ring.
 If you replace the steering knuckle bushing, recheck the front drive shaft thrust clearance.

- (a) Install the bolt in the shaft.



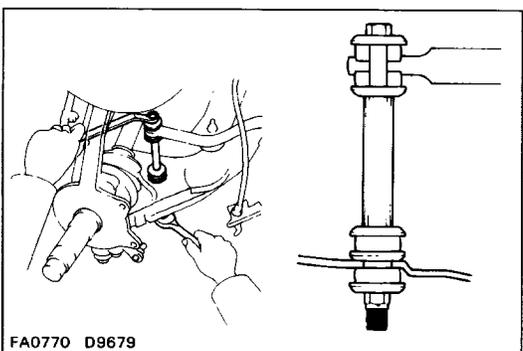
- (b) Using a feeler gauge, measure the front drive shaft thrust clearance between the steering knuckle outside bushing and spacer, by pulling the bolt and applying 98 IV (10 kgf, 22.0 lbf) of pressure.

Front drive shaft thrust clearance:

**Standard clearance 0.075 – 0.690 mm
 (0.0030 – 0.0272 in.)**

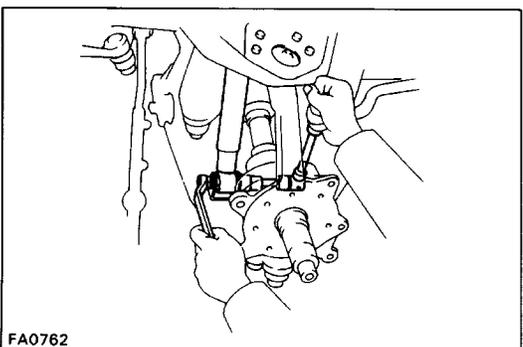
If the clearance is not within specification, replace the spacer. Spacer thickness

| | |
|---------|--------------|
| 1.80 mm | (0.0709 in.) |
| 2.25 mm | (0.0886 in.) |



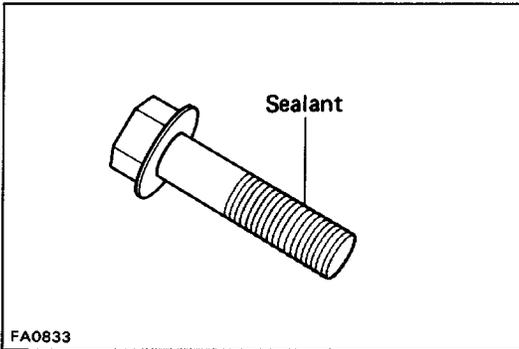
3. CONNECT STABILIZER BAR TO LOWER SUSPENSION ARM

Jack up the stabilizer bar and install the retainers, cushions and collar as shown in the figure, and torque the nut.
Torque: 25 N-m (260 kgf-cm, 19 ft-lbf)



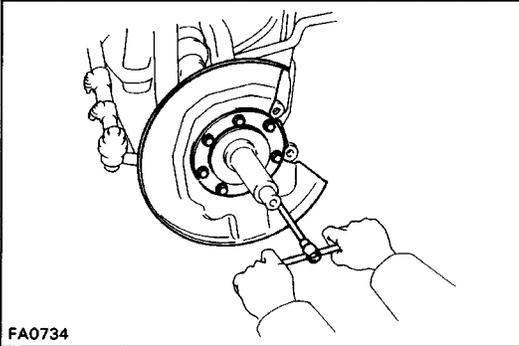
4. CONNECT FRONT SHOCK ABSORBER TO LOWER SUSPENSION ARM

Torque: 137 N-m (1,400 kgf-cm, 101 ft-lbf)



5. CONNECT KNUCKLE ARM TO STEERING KNUCKLE

- (a) Clean the threads of the bolts and steering knuckle with toluene or trichloroethylene.
- (b) Apply sealant to the bolt threads.
Sealant: Part No. 08833-00070, THREE BOND 1324 or equivalent.
- (e) Connect the knuckle arm to the steering knuckle with brake hose bracket and torque bolts.
Torque: 183 N-m (1,870 kgf-cm, 135 ft-lbf)



6. INSTALL DUST COVER AND NEW OIL SEAL

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

7. INSTALL FRONT AXLE HUB AND DISC BRAKE CYLINDER

(See page [SA-37](#))

8. BLEED BRAKE SYSTEM