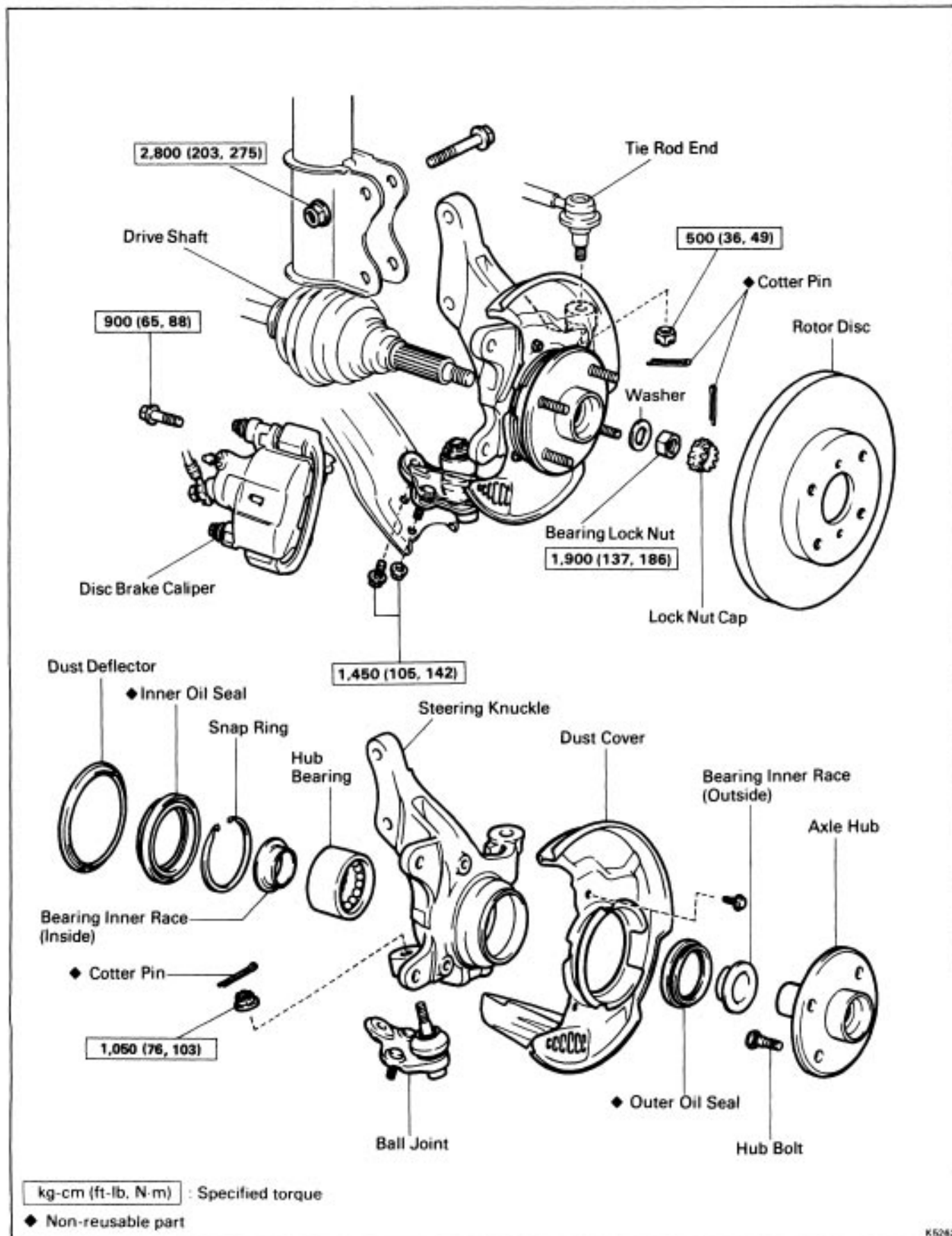
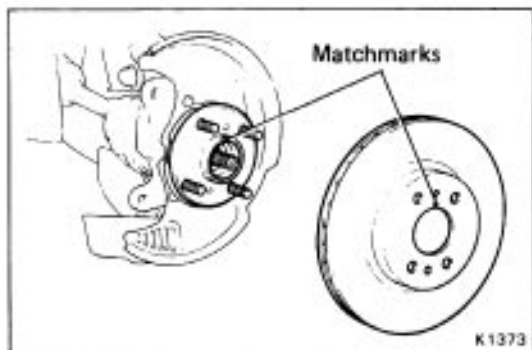


FRONT AXLE HUB COMPONENTS





REMOVAL OF FRONT AXLE HUB

(See page SA-7)

1. REMOVE BEARING LOCK NUT

- Remove the cotter pin and lock nut cap.
- Loosen the bearing lock nut while depressing the brake pedal, and remove it.

2. REMOVE BRAKE CALIPER AND ROTOR DISC

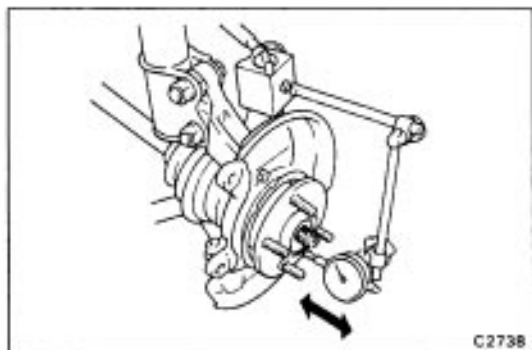
- Remove the brake caliper from the steering knuckle and suspend it with wire.
- Remove the rotor disc.

HINT: Before removing the rotor disc, place matchmarks on the axle hub and rotor disc.

3. CHECK BEARING PLAY IN AXIAL DIRECTION

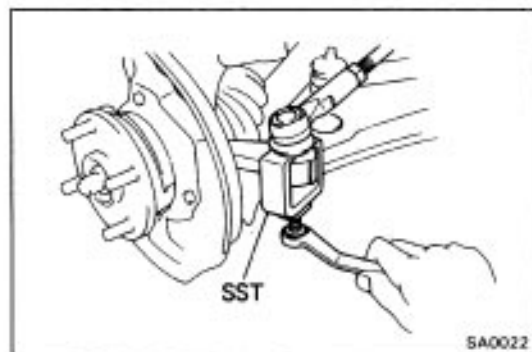
Bearing play: 0.05 mm (0.0020 in.) or less

If the bearing play is greater than the maximum, replace the bearing.



4. DISCONNECT TIE ROD END

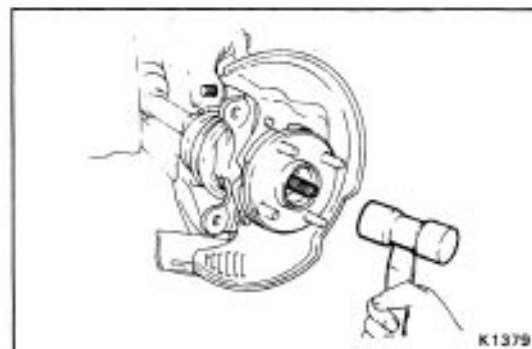
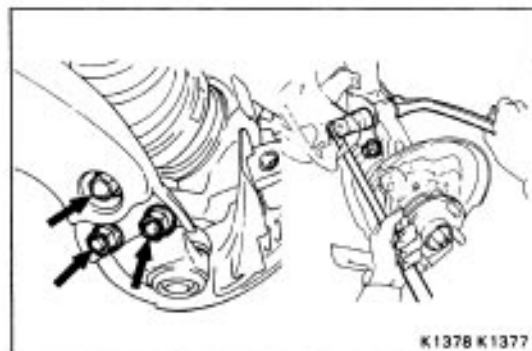
- Remove the cotter pin and nut from the tie rod end.
 - Using SST, disconnect the tie rod end from the steering knuckle.
- SST 09611-22012



5. REMOVE AXLE HUB ASSEMBLY

- Remove the bolt and two nuts from the lower arm.
- Disconnect lower arm from the steering knuckle.
- Loosen and remove the two nuts from the steering knuckle.

HINT: Leave the hub bolts not to drop the axle hub assembly.



- Using a plastic hammer, tap the drive shaft.

NOTICE: Cover the drive shaft boot with cloth to protect it from damage.

- Remove the two bolts and remove the axle hub assembly.

DISASSEMBLY OF FRONT AXLE HUB

(See page SA-7)

1. REMOVE DUST DEFLECTOR

(a) Clamp the steering knuckle in a vise.

HINT: Use a set of soft jaws in the vise to protect the steering knuckle.

(b) Using a screwdriver, remove the dust deflector.



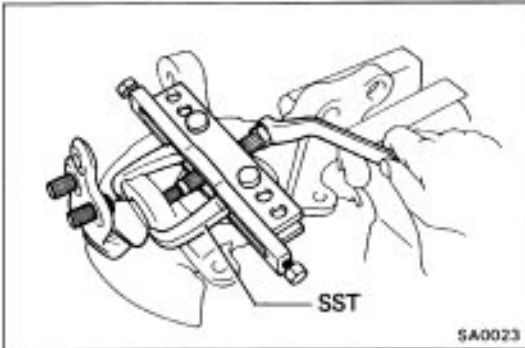
2. REMOVE BALL JOINT FROM STEERING KNUCKLE

(a) Remove the cotter pin.

(b) Remove the nut holding the ball joint to the steering knuckle.

(c) Using SST, remove the ball joint from the steering knuckle.

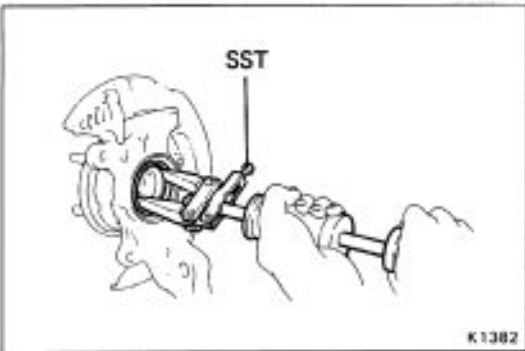
SST 09950-20017



3. REMOVE INNER OIL SEAL

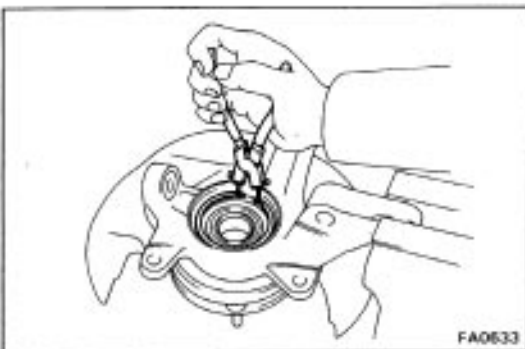
Using SST, remove the oil seal from the steering knuckle.

SST 09308-00010



4. REMOVE HOLE SNAP RING

Using snap ring pliers, remove the hole snap ring.



5. REMOVE AXLE HUB FROM STEERING KNUCKLE

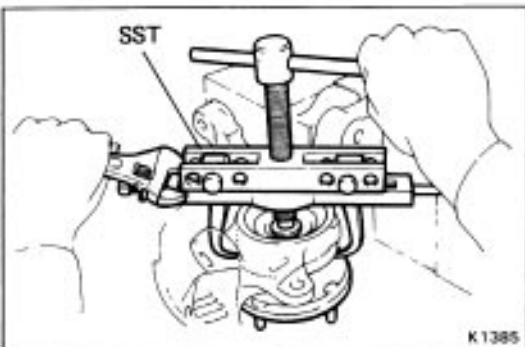
(a) Remove the three bolts holding the dust cover to the steering knuckle.

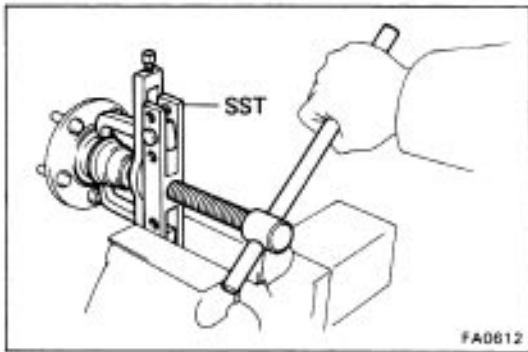
(b) Using SST, remove the axle hub from the steering knuckle.

SST 09950-20017

(c) Remove the dust cover.

6. REMOVE BEARING INNER RACE (INSIDE)

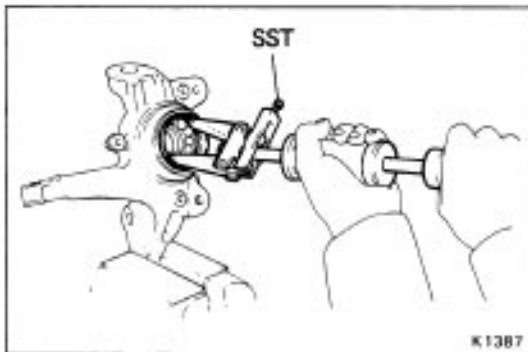




7. REMOVE BEARING INNER RACE (OUTSIDE)

Using SST, remove the inner race (outside) from the axle hub.

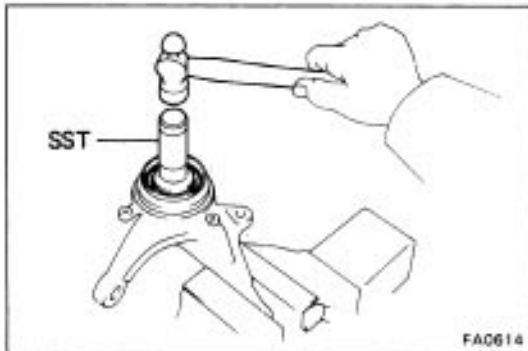
SST 09950-20017



8. REMOVE OUTER OIL SEAL

Using SST, remove the oil seal from the steering knuckle.

SST 09308-00010



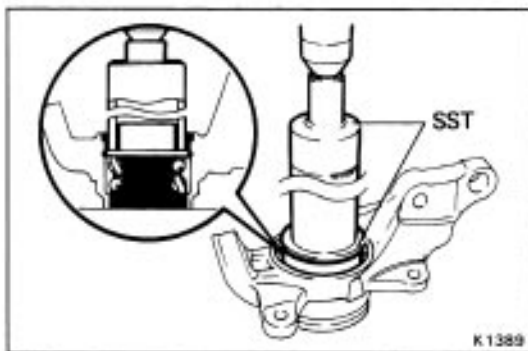
9. REMOVE HUB BEARING

(a) First, place the removed inner race (outside) in the bearing.

(b) Using SST and a hammer, remove the bearing.

SST 09605-60010

NOTICE: Always replace the bearing as an assembly.



ASSEMBLY OF FRONT AXLE HUB

(See page [SA-7](#))

1. INSTALL HUB BEARING

Using SST and press, press a new bearing into the steering knuckle.

SST 09316-60010 (09316-00010, 09316-00020)

2. INSTALL OUTER OIL SEAL

(a) Place a new bearing inner race (outside) on the hub bearing.

(b) Using SST and a hammer, drive the oil seal into the steering knuckle.

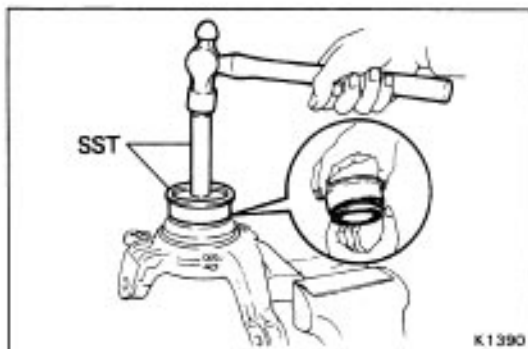
SST 09608-32010, 09710-14012 (09710-00050)

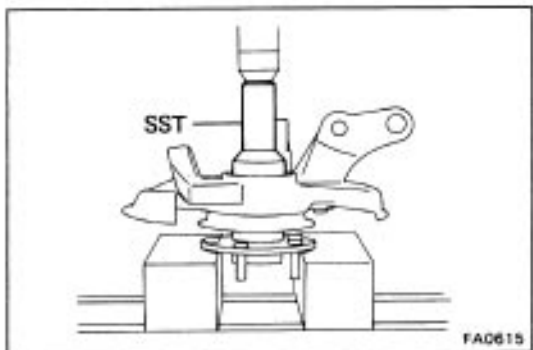
HINT: Insert the side lip of a new oil seal into the SST.

(c) Apply MP grease to the oil seal lip.

3. INSTALL DISC BRAKE DUST COVER

Apply liquid sealant to the dust cover and steering knuckle connection before assembly.





4. INSTALL AXLE HUB

- (a) Place a new bearing inner race (inside) on the hub bearing.
- (b) Using SST, press the hub into the steering knuckle.
SST 09310-35010

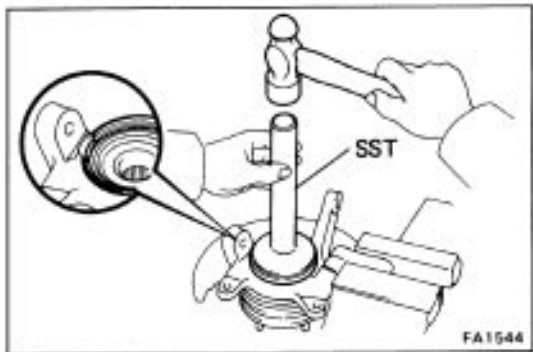
5. INSTALL HOLE SNAP RING

Using pliers, install a new hole snap ring into the steering knuckle.



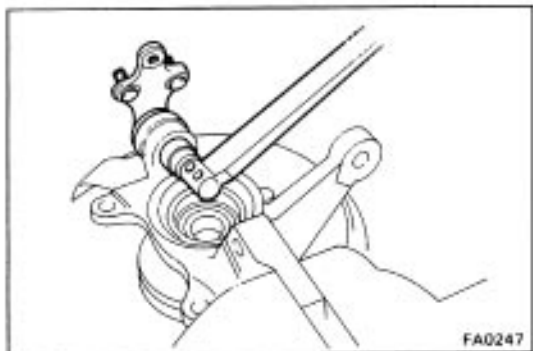
6. INSTALL INNER OIL SEAL

- (a) Using SST, drive in a new oil seal to the steering knuckle surface as shown.
SST 09608-10010, 09710-14012 (09710-00050)
- (b) Apply MP grease to the contact surfaces of the oil seal lip and drive shaft.



7. INSTALL DUST DEFLECTOR

Using SST, drive a new deflector into the steering knuckle.
SST 09218-46010



8. INSTALL BALL JOINT TO STEERING KNUCKLE

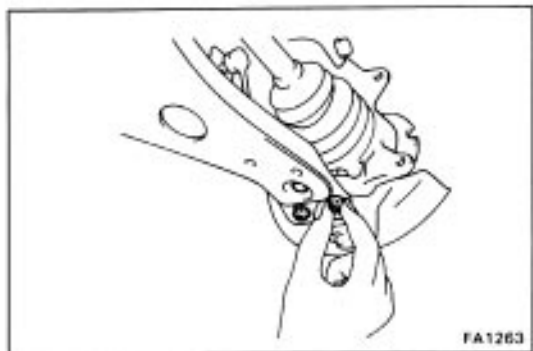
- (a) Temporarily tighten the nut.
Torque: 200 kg-cm (14 ft-lb, 20 N-m)
- (b) Remove the nut.
- (c) Install and torque the nut.
Torque: 1,050 kg-cm (76 ft-lb, 103 N-m)
- (d) Install a new cotter pin.

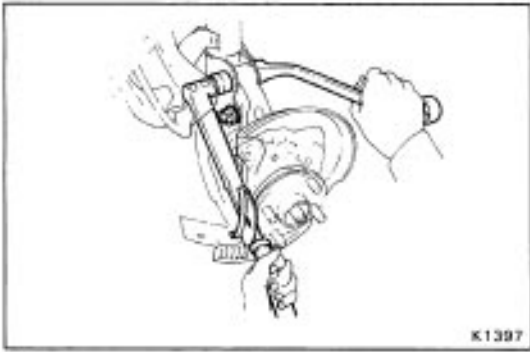
INSTALLATION OF FRONT AXLE HUB

(See page SA-7)

1. INSTALL AXLE HUB ASSEMBLY TO LOWER ARM

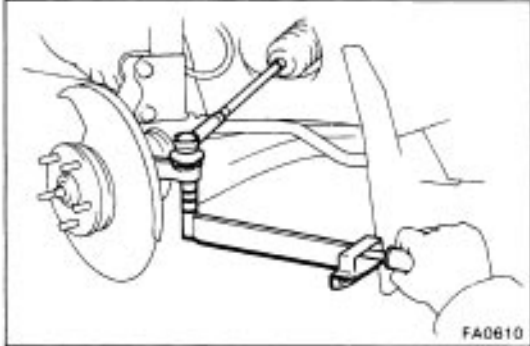
Temporarily install the axle hub assembly to the lower arm.





2. INSTALL STEERING KNUCKLE TO SHOCK ABSORBER

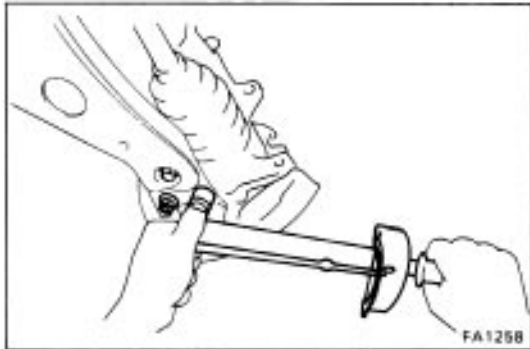
- (a) Connect the steering knuckle to the shock absorber lower bracket.
- (b) Insert the bolts from the rear side and tighten the nuts.
Torque: 2,800 kg-cm (203 ft-lb, 275 N-m)



3. CONNECT TIE ROD END TO STEERING KNUCKLE

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

Torque: 500 kg-cm (36 ft-lb, 49 N-m)



4. TORQUE BALL JOINT TO LOWER ARM

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

5. INSTALL ROTOR DISC TO AXLE HUB

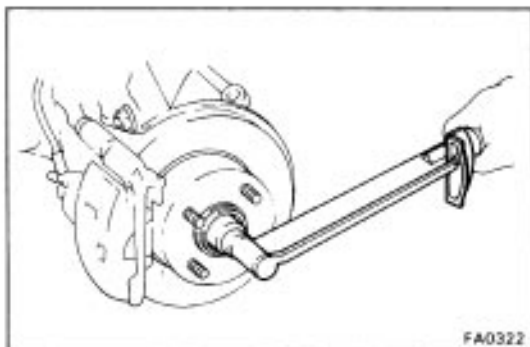
Align the matchmarks and install the rotor disc to the axle hub.



6. INSTALL BRAKE CALIPER TO STEERING KNUCKLE

Torque the bolts.

Torque: 900 kg-cm (65 ft-lb, 88 N-m)



7. INSTALL BEARING LOCK NUT, LOCK NUT CAP AND COTTER PIN

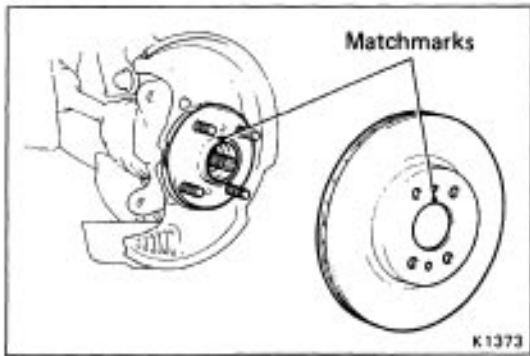
- (a) Torque the bearing lock nut while depressing the brake pedal.

Torque: 1,900 kg-cm (137 ft-lb, 186 N-m)

- (b) Install the lock nut cap and, using pliers, install a new cotter pin.

8. CHECK FRONT WHEEL ALIGNMENT

(See page [SA-3](#))



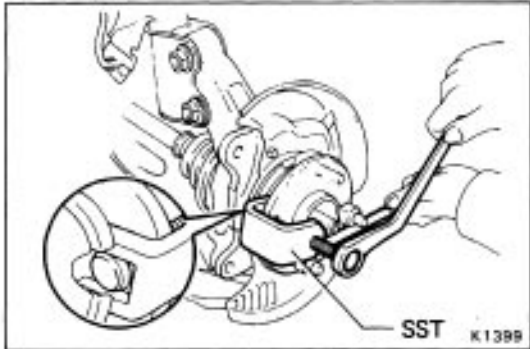
REPLACEMENT OF FRONT AXLE HUB BOLT

1. REMOVE DISC BRAKE CALIPER

Remove the disc brake caliper from the steering knuckle and suspend it with wire.

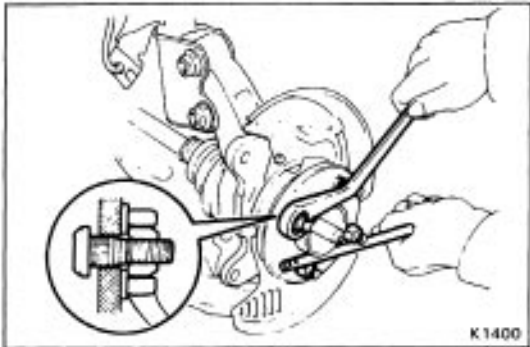
2. REMOVE ROTOR DISC

HINT: Before removing the rotor disc, place the matchmarks on the axle hub and rotor disc.



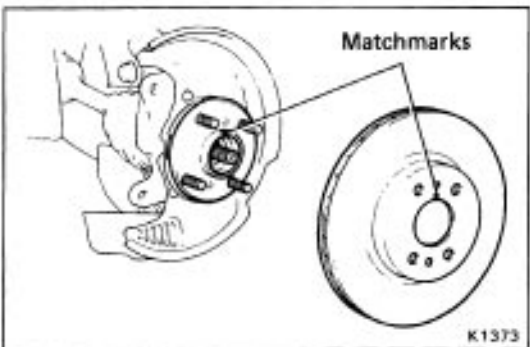
3. REMOVE FRONT AXLE HUB BOLT

- (a) Align the disc brake dust cover cutting portion and axle hub bolt.
- (b) Using SST, remove the axle hub bolt.
SST 09628-10011



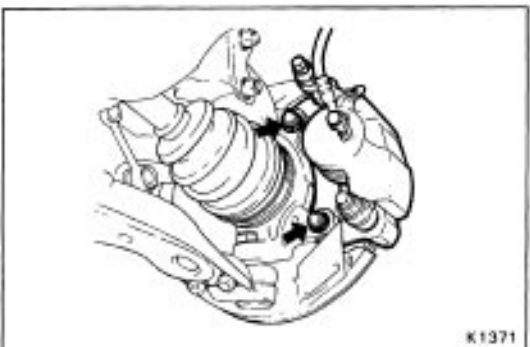
4. INSTALL NEW AXLE HUB BOLT

Hold the axle hub, and install a new axle hub bolt.



5. INSTALL ROTOR DISC

Align the matchmarks, and install the rotor disc to the axle hub.



6. INSTALL DISC BRAKE CALIPER TO STEERING KNUCKLE

Torque: 900 kg-cm (65 ft-lb, 88 N-m)