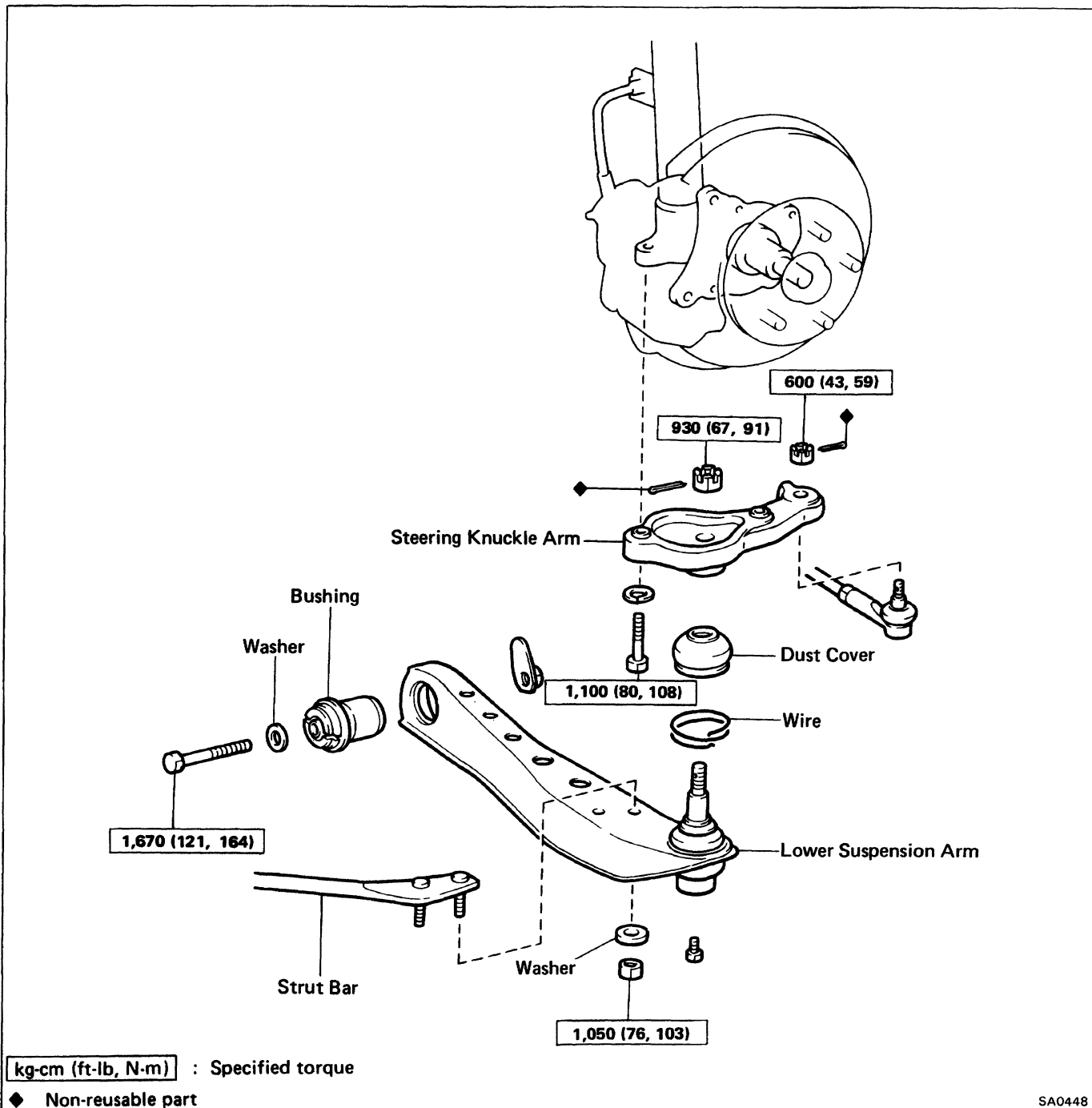
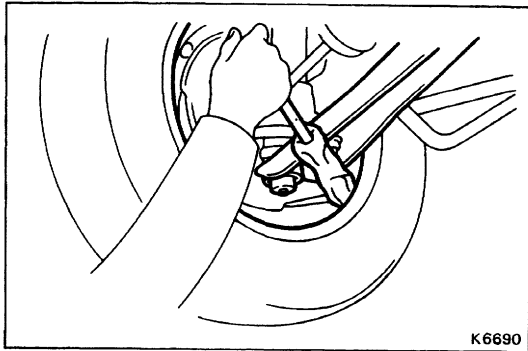


# Lower Suspension Arm COMPONENTS



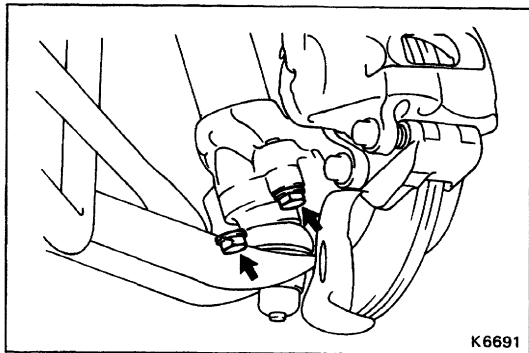


## INSPECTION OF LOWER BALL JOINT

### INSPECT BALL JOINT FOR EXCESSIVE LOOSENESS

- (a) Jack up the front of the vehicle and place a wooden block with a height of 180 – 200 mm (7.09 – 7.87 in.) under one front tire.
- (b) Lower the jack until there is about half a load on the front coil spring. Place stands under the vehicle for safety.
- (c) Make sure the front wheels are in a straightforward position and block the wheel with chocks.
- (d) Move the lower arm up and down, and check the ball joint vertical play.

**Ball joint vertical play: 2.5 mm (0.098 in.) or less**

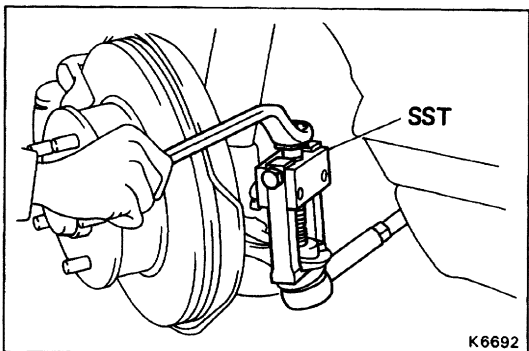


## REMOVAL OF LOWER SUSPENSION ARM

### 1. REMOVE FRONT WHEEL

### 2. DISCONNECT SHOCK ABSORBER

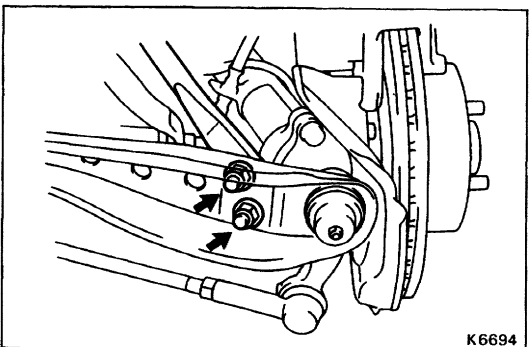
Remove the two bolts and disconnect the shock absorber from lower suspension arm.



### 3. DISCONNECT TIE ROD END

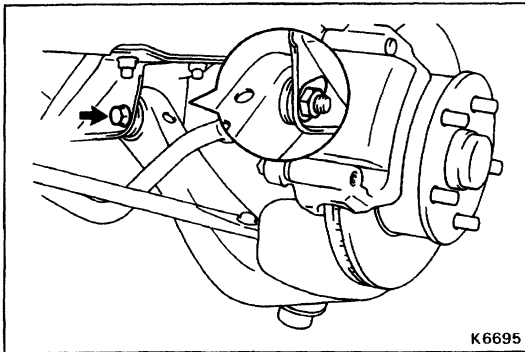
- (a) Remove the cotter pin and nut.
- (b) Using SST, disconnect the tie rod end from the steering knuckle arm.

SST 09628-62011



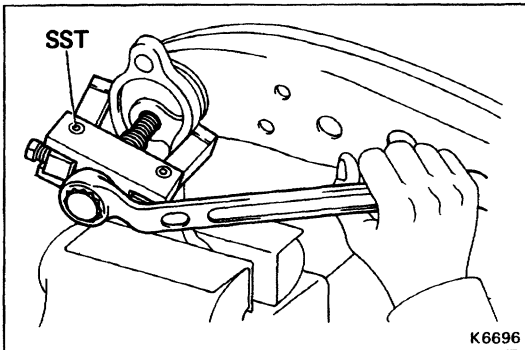
### 4. DISCONNECT STRUT BAR

- (a) Remove the two nuts.
- (b) Disconnect the strut bar from lower suspension arm.



## 5. REMOVE LOWER SUSPENSION ARM

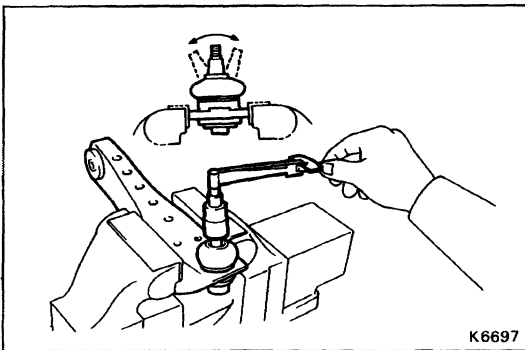
Remove the bolt and the lower suspension arm with the steering knuckle arm.



## 6. REMOVE STEERING KNUCKLE ARM

- Hold the steering knuckle arm in a vise.
- Remove the cotter pin and nut.
- Using SST, remove the steering knuckle arm from the suspension lower arm.

SST 09628-62011



## INSPECTION OF LOWER BALL JOINT

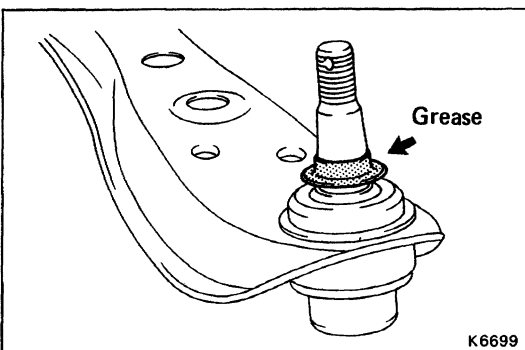
### INSPECT BALL JOINT FOR ROTATION CONDITION

- As shown, flip the ball joint stud back and forth 5 times before install the nut.
- Using a torque gauge, turn the nut continuously one turn per 12-14 seconds and take the torque reading on the 5th turn.

**Torque (turning): 25 - 45 kg-cm**

**(22 - 39 in.-lb, 2.5 - 4.4 N-m)**

If not within specification, replace the lower suspension arm.



## REPLACEMENT OF BALL JOINT DUST COVER

### 1. REMOVE DUST COVER

Remove the wire and the dust cover.

### 2. INSTALL DUST COVER

- Apply grease to the dust cover plate.

**Grease: Molybdenum disulphide lithium base, NLGI No-2**

- Install the dust cover with the escape valve facing the rear of the vehicle.

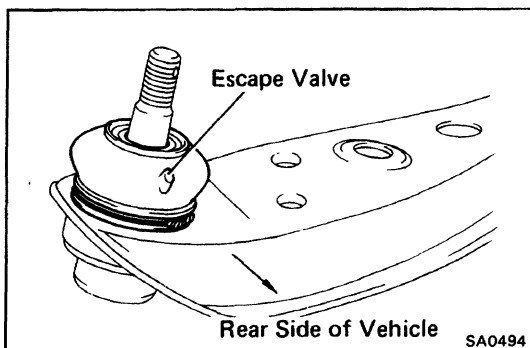
- wind the wire twice around the dust cover and bend the wire knot down.

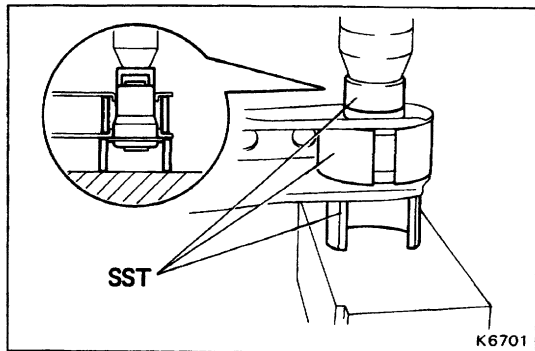
- Remove the plug and install the grease fitting.

- Fill the ball joint with grease:

**Grease: Molybdenum disulphide lithium base, NLGI No.2**

- Remove the grease fitting and install the plug.



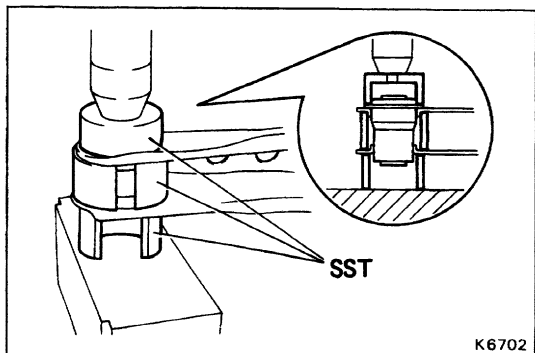


## REPLACEMENT OF LOWER ARM BUSHING

### 1. REMOVE BUSHING

Using SST, remove the bushing.

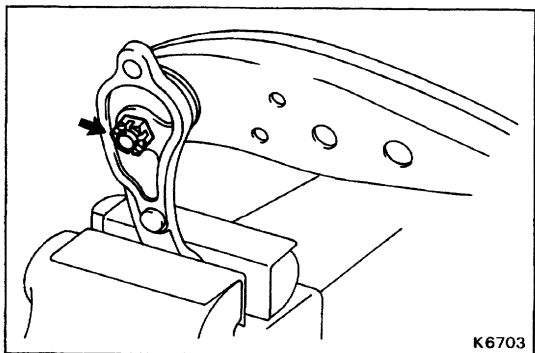
SST 09710-30020 109710-03070, 09710-030901  
09726-12022 (09726-01051)



### 2. INSTALL BUSHING

Using SST, install the bushing.

SST 09710-30020 (09710-03050, 09710-03090)  
09726-12022 (09726-01051)



## INSTALLATION OF LOWER SUSPENSION ARM

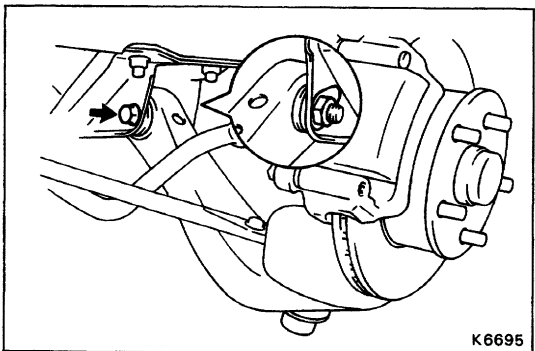
### 1. INSTALL STEERING KNUCKLE ARM

(a) Hold the steering knuckle arm in a vise.

(b) Install lower arm and tighten the nut.

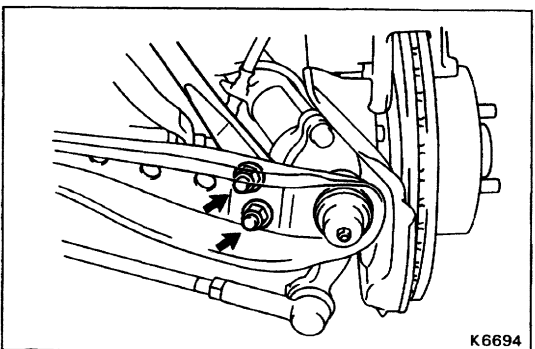
**Torque: 930 kg-cm (67 ft-lb, 91 N-m)**

(c) Install a new cotter pin.



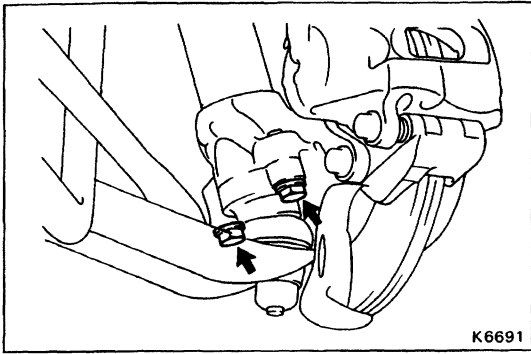
### 2. INSTALL LOWER SUSPENSION ARM

(a) Temporarily install the lower suspension arm.

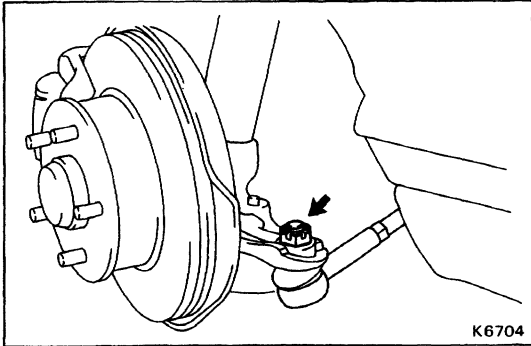


(b) Connect the strut bar to the lower suspension arm.

**Torque: 1,050 kg-cm (76 ft-lb, 103 N-m)**



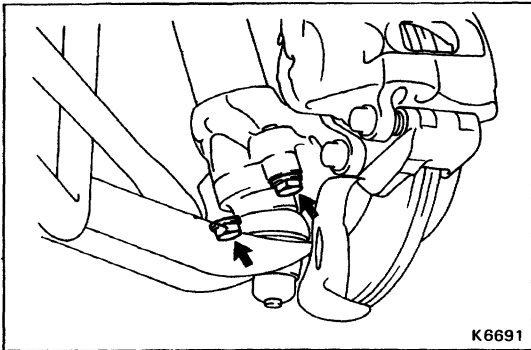
- (c) Temporarily install the lower arm to the shock absorber.



- (d) Connect the tie rod end to the steering knuckle arm.

**Torque: 600 kg-cm (43 ft-lb, 59 N-m)**

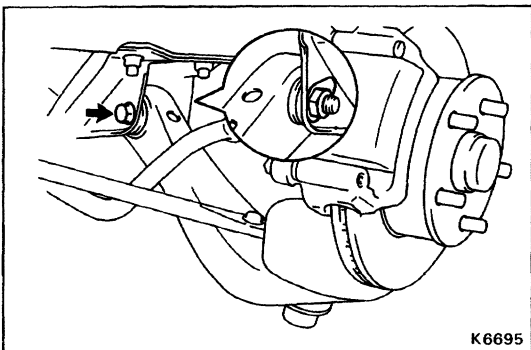
- (e) Install a new cotter pin.



- (f) Tighten the two bolts of the steering knuckle arm.

**Torque: 1,100 kg-cm (80 ft-lb, 108 N-m)**

### 3. INSTALL FRONT WHEEL



### 4. TORQUE LOWER SUSPENSION ARM BOLT

- (a) Remove the stands and bounce the vehicle up and down to stabilize the suspension.

- (b) Torque the lower suspension arm bolt.

**Torque: 1,670 kg-cm (121 ft-lb, 164 N-m)**

### 5. CHECK FRONT WHEEL ALIGNMENT

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