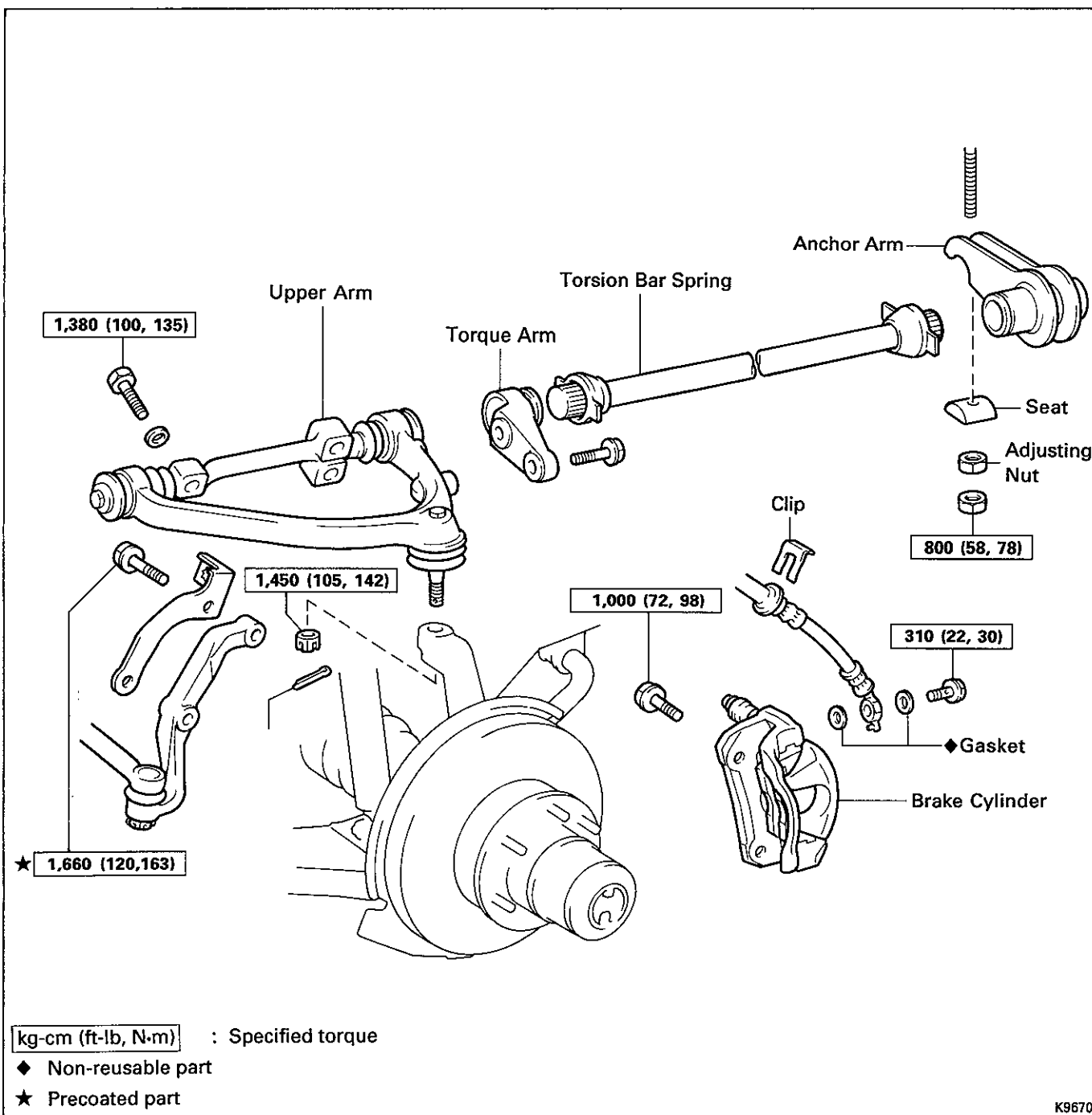
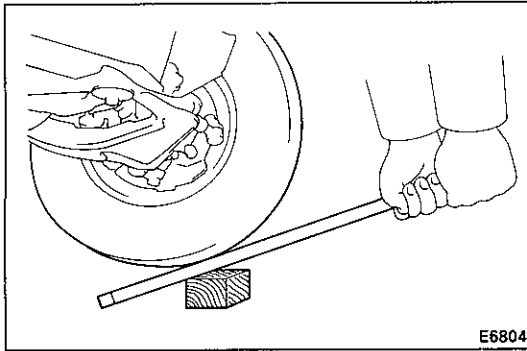


Upper Arm

COMPONENTS



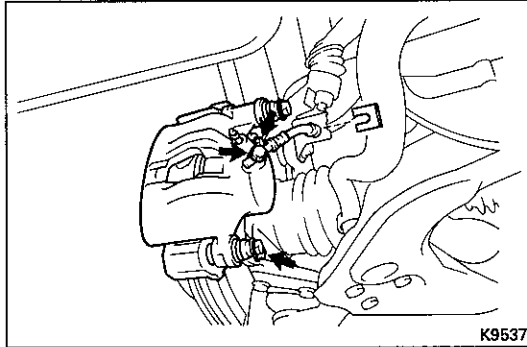


INSPECTION OF UPPER BALL JOINT

INSPECT LOWER BALL JOINT FOR EXCESSIVE LOOSENESS

- (a) Jack up the front of the vehicle and support it with stands.
- (b) Make sure the front wheels are in a straight forward position, and depress the brake pedal.
- (c) Move the wheel up and down and check the upper ball joint vertical play.

Maximum vertical play: 2.3 mm (0.091 in.)



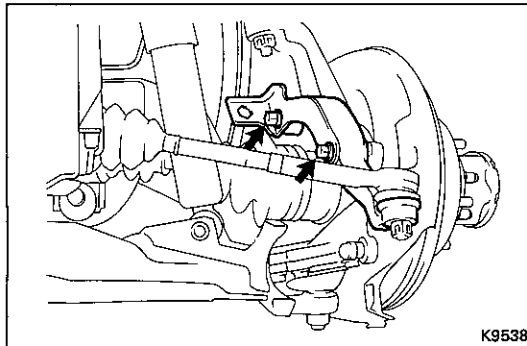
REMOVAL OF UPPER ARM

1. REMOVE TORSION BAR SPRING

(See page SA-101)

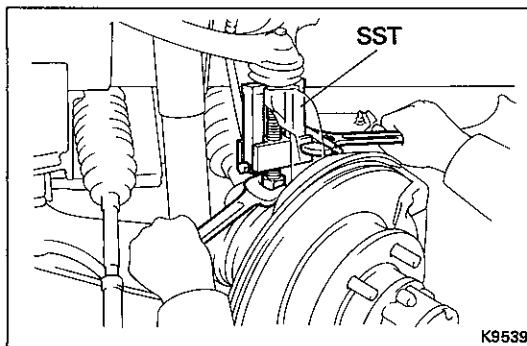
2. REMOVE FRONT BRAKE CYLINDER

- (a) Disconnect the brake hose from the brake cylinder.
- (b) Remove the two bolts and brake cylinder.



3. REMOVE STEERING KNUCKLE ARM

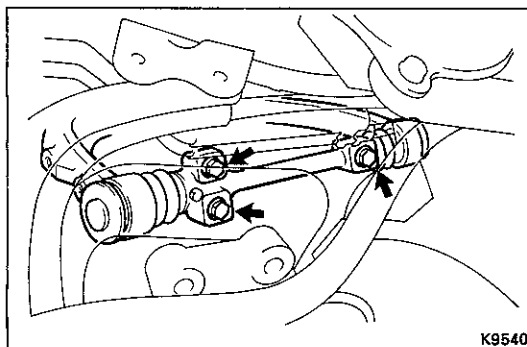
Remove the two bolts, brake hose bracket and steering knuckle arm.



4. DISCONNECT STEERING KNUCKLE FROM UPPER BALL JOINT

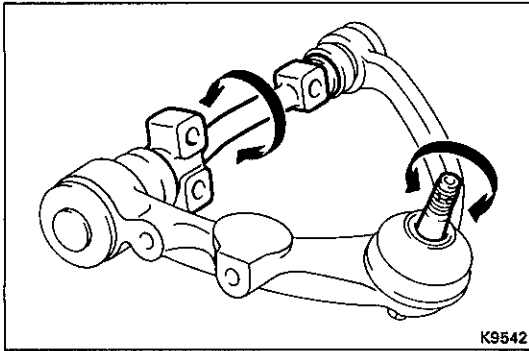
- (a) Support the lower arm with a jack.
- (b) Remove the cotter pin and nut.
- (c) Using SST, disconnect the steering knuckle from the upper ball joint.

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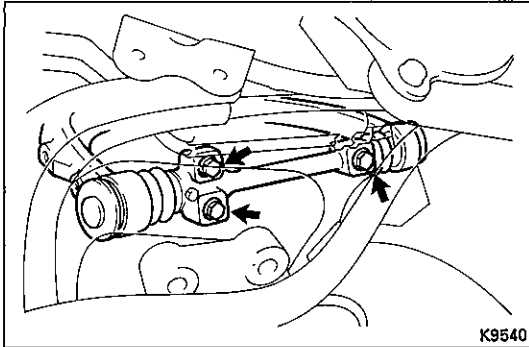
5. REMOVE UPPER ARM

Remove the three bolts and upper arm.



INSPECTION OF UPPER ARM

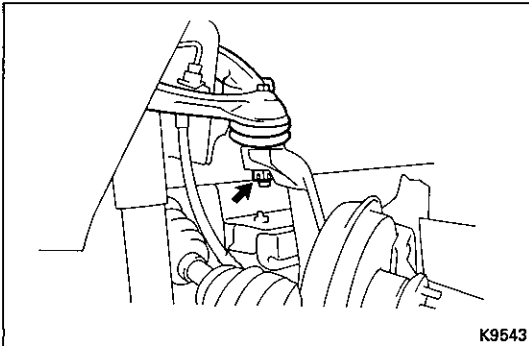
1. **INSPECT UPPER ARM SHAFT FOR ROTATION CONDITION**
Check that the upper arm shaft turns smoothly.
2. **INSPECT UPPER BALL JOINT**
Check that the ball joint turns smoothly.



INSTALLATION OF UPPER ARM

1. **INSTALL UPPER ARM**
 - (a) Coat the threads of the bolts with engine oil.
 - (b) Install the upper arm with the three bolts.

Torque: 1,380 kg-cm (100 ft-lb, 135 N-m)



2. **CONNECT STEERING KNUCKLE TO UPPER BALL JOINT**
 - (a) Connect the steering knuckle to the upper ball joint and install the nut.

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

 - (b) Install a new cotter pin.

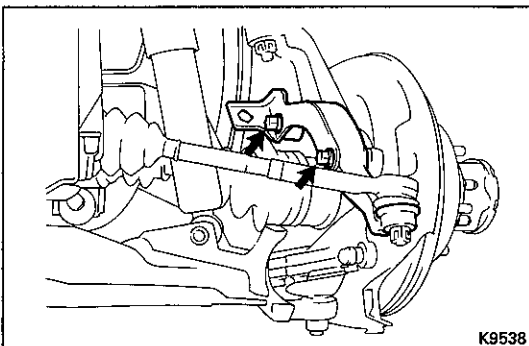
3. **INSTALL STEERING KNUCKLE ARM**
 - (a) Clean the threads of the bolts and steering knuckle.
 - (b) Apply sealant to the bolt threads.

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

 - (c) Install the steering knuckle arm to the steering knuckle with the 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.

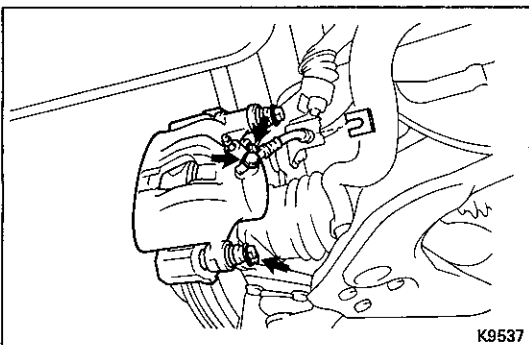


4. **INSTALL FRONT BRAKE CYLINDER**

- (a) Install the front brake cylinder.
- Torque: 1,000 kg-cm (72 ft-lb, 98 N-m)**

- (b) Connect brake hose to the cylinder with two new gasket and install the clip.

Torque: 310 kg-cm (22 ft-lb, 30 N-m)



5. **INSTALL TORSION BAR SPRING**
(See page SA-101)

6. **BLEED BRAKE SYSTEM AND CHECK FOR FLUID LEAKAGE**

7. **CHECK FRONT WHEEL ALIGNMENT**
(See page SA-7)