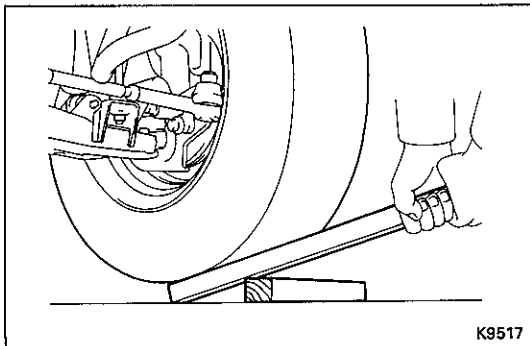
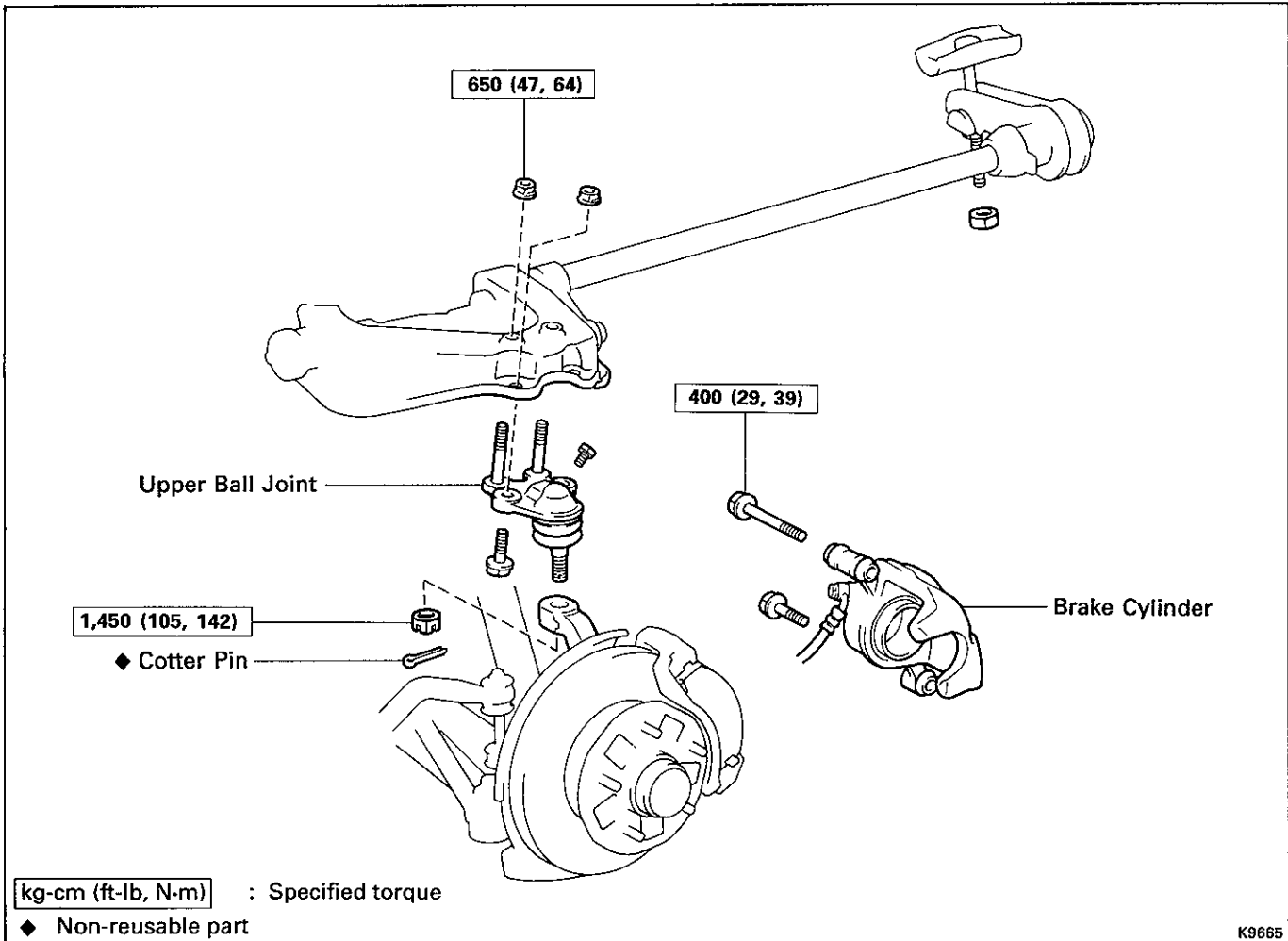


Upper Ball Joint

COMPONENTS



ON-VEHICLE INSPECTION OF UPPER BALL JOINT

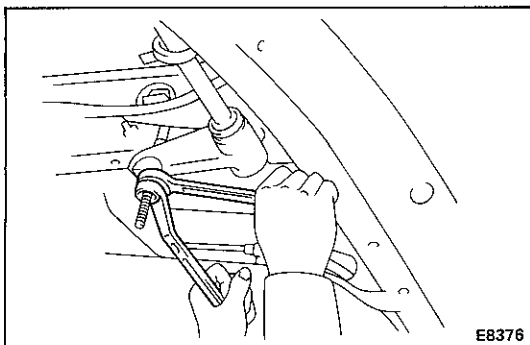
1. INSPECT UPPER BALL JOINT FOR EXCESSIVE LOOSENESS

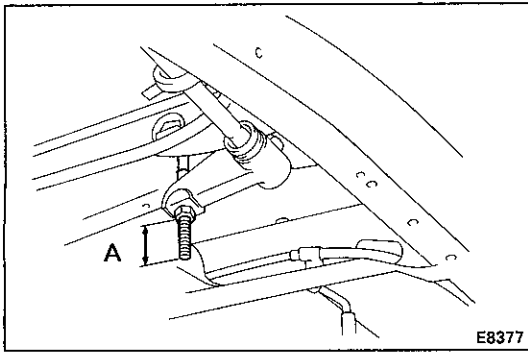
- Jack up the front of the vehicle and support it with stands.
- Make sure the front wheels are in a straight-ahead position, and depress the brake pedal.
- Move the front wheel up and down and check the ball joint vertical play.

Maximum lower ball joint vertical play:
2.3 mm (0.091 in.)

REMOVAL OF UPPER BALL JOINT

- REMOVE FRONT WHEEL
- LOOSEN TORSION BAR SPRING ADJUSTING NUT
 - Remove the anchor arm lock nut.

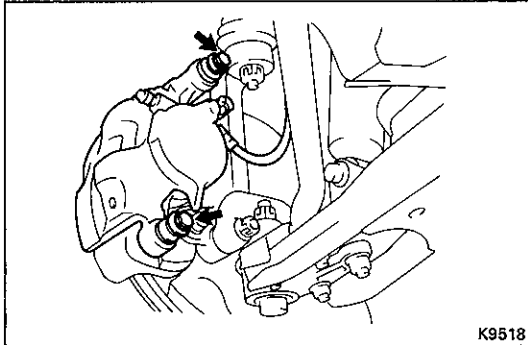




(b) Measure protruding bolt end "A" as shown in the illustration.

HINT: Use this measurement for reference when adjusting the vehicle height.

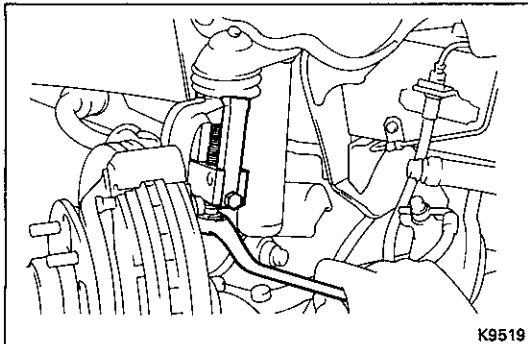
(c) Loosen the adjusting nut until it can be turned by hand.



3. (DISC BRAKE) REMOVE FRONT BRAKE CYLINDER

(a) Remove the two bolts and front brake cylinder.

(b) Hang up the brake cylinder using wire, etc.



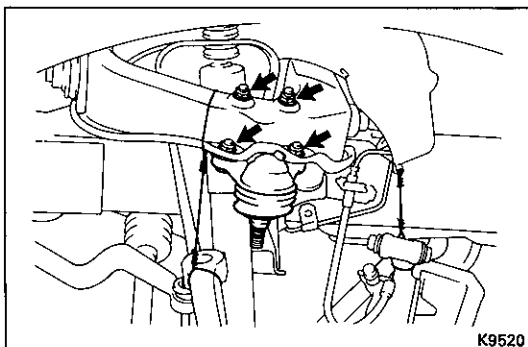
4. REMOVE UPPER BALL JOINT

(a) Remove the cotter pin and nut.

(b) Support the lower arm with a jack.

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

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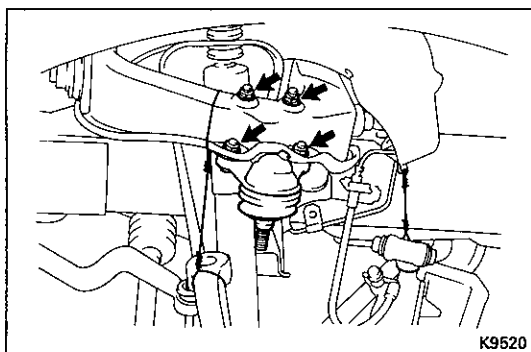


(d) Remove the four nuts, two nuts and the upper ball joint.

INSPECTION OF UPPER BALL JOINT

INSPECT BALL JOINT FOR ROTATION CONDITION

Check that the ball joint stud turns smoothly.

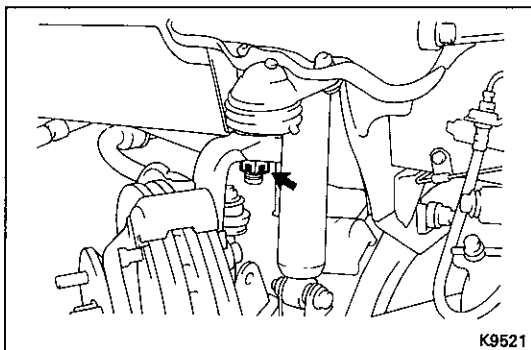


INSTALLATION OF UPPER BALL JOINT

1. INSTALL UPPER BALL JOINT

- (a) Install the upper ball joint to the upper arm with two bolts and four nuts.

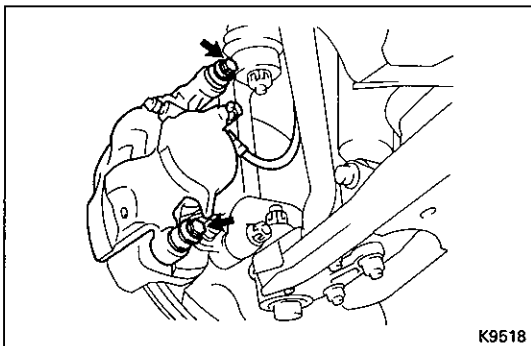
Torque: 650 kg-cm (47 ft-lb, 64 N-m)



- (b) Connect the upper ball joint to the steering knuckle and install the nut.

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

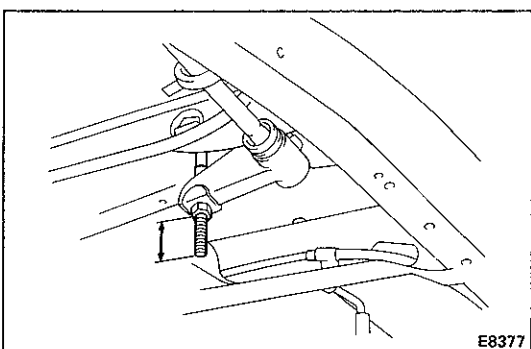
- (c) Install a new cotter pin.



2. (DISC BRAKE) INSTALL FRONT BRAKE CYLINDER

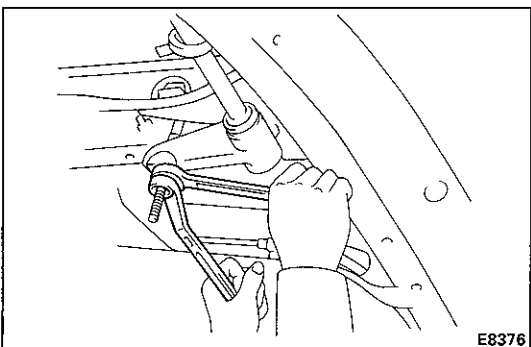
Install the front brake cylinder with the two bolts.

Torque: 400 kg-cm (29 ft-lb, 39 N-m)



3. TIGHTEN TORSION BAR SPRING ADJUSTING NUT

- (a) Tighten the adjusting nut so that the bolt protrusion is equal to that before removal.



- (b) Install the anchor arm lock nut.

Torque: 800 kg-cm (58 ft-lb, 78 N-m)

4. INSTALL FRONT WHEEL

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

5. INSPECT VEHICLE HEIGHT (See page SA-3)

6. INSPECT FRONT WHEEL ALIGNMENT (See page SA-3)