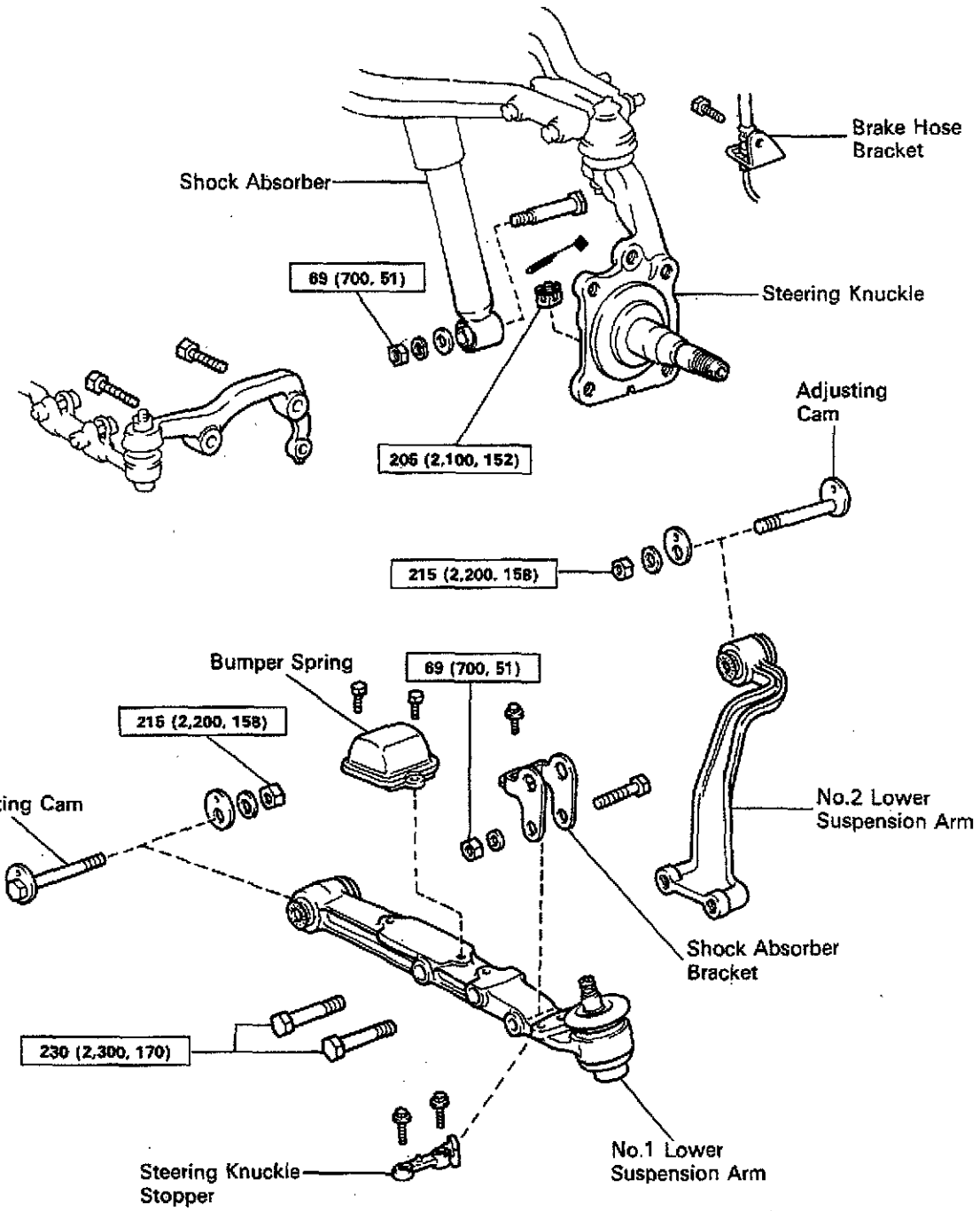
UPPER AND LOWER BALL JOINT COMPONENTS

SA0XH-01

(Lower Ball Joint)

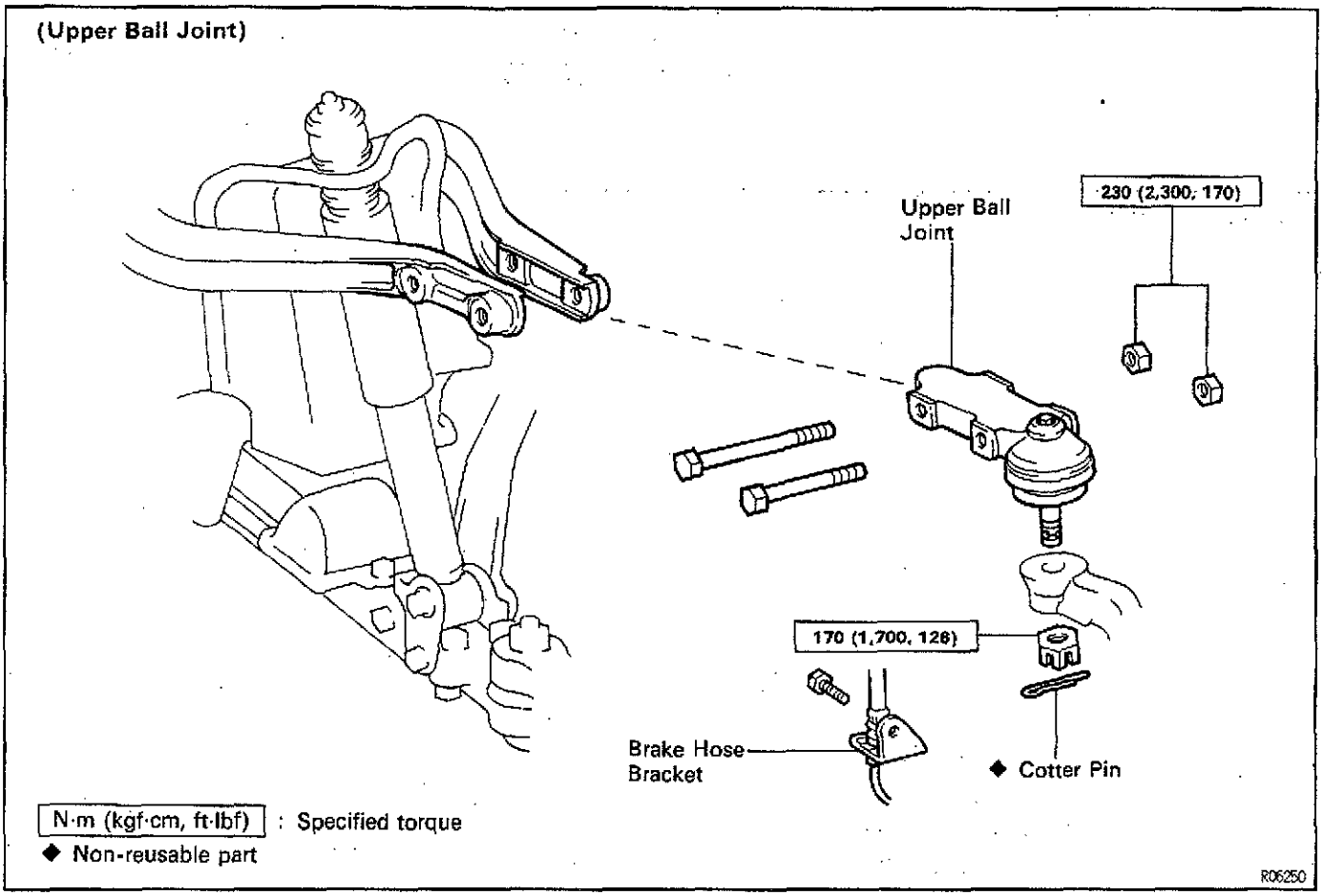


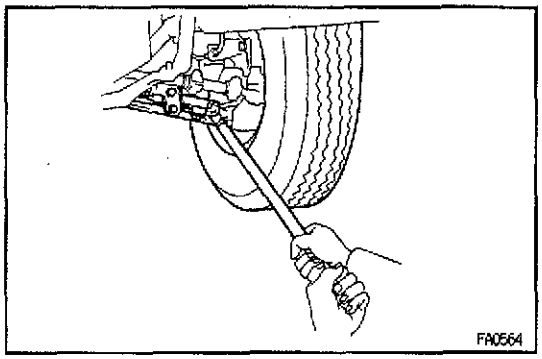
N·m (kgf·cm, ft·lbf) : Specified torque

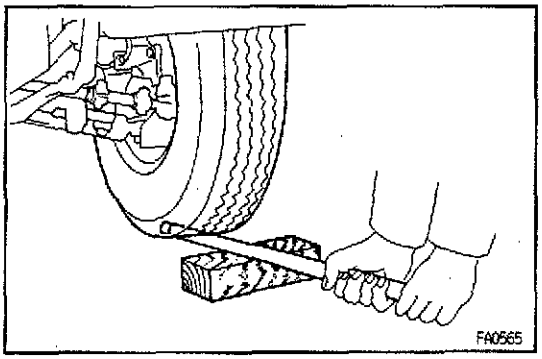
◆ Non-reusable part

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SA







UPPER AND LOWER BALL JOINT ON-VEHICLE INSPECTION

SA0XJ-01

1. INSPECT LOWER BALL JOINT FOR EXCESSIVE LOOSENESS

(a) Make sure the front wheels are in a straight forward position, and depress the brake pedal.

(b) Move the lower arm up and down and check that the lower ball joint has no play.

Maximum vertical play:

1.8 mm (0.071 in.)

2. INSPECT UPPER BALL JOINT FOR EXCESSIVE LOOSENESS

(a) Jack up the front of the vehicle and support it with stands.

(b) Move the wheel up and down, and check that the upper ball joint has no excessive play.

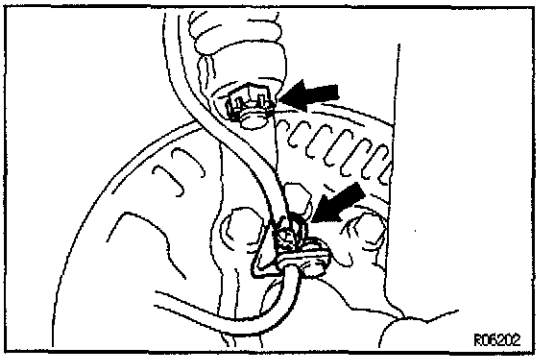
Maximum vertical play:

1.2 mm (0.047 in.)

SA0XX-01

UPPER AND LOWER BALL JOINT REMOVAL

1. **JACK UP AND SUPPORT FRAME ON STANDS**
2. **REMOVE FRONT WHEEL**



3. **DISCONNECT STEERING KNUCKLE**

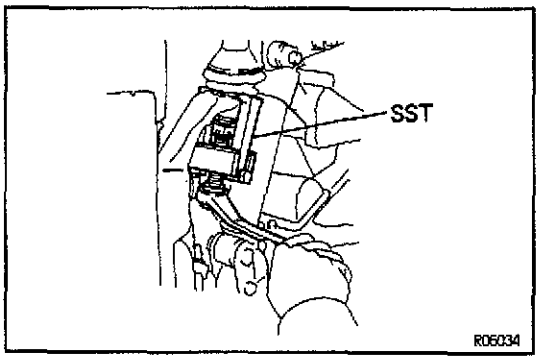
(a) Support the lower suspension arm with a jack.

(b) Disconnect the brake hose bracket from the steering knuckle.

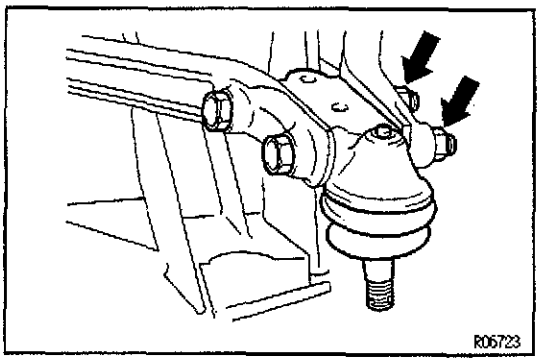
(c) Remove the cotter pin from the upper ball joint.

(d) Loosen the upper ball joint nut.

NOTICE: Only loosen the nut until SST can be caught, do not remove it.



(e) Using SST, disconnect the steering knuckle.
SST 09628–62011



4. **REMOVE UPPER BALL JOINT**

(a) Lower the lower suspension arm.

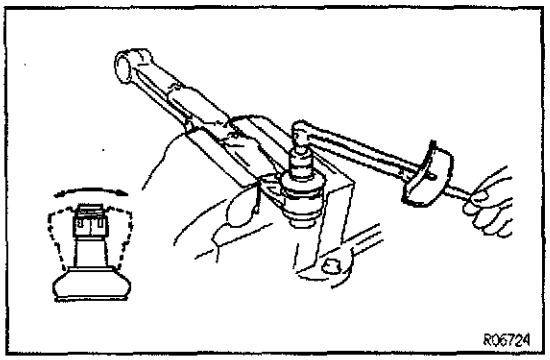
(b) Remove the 2 nuts, bolts, and upper ball joint.

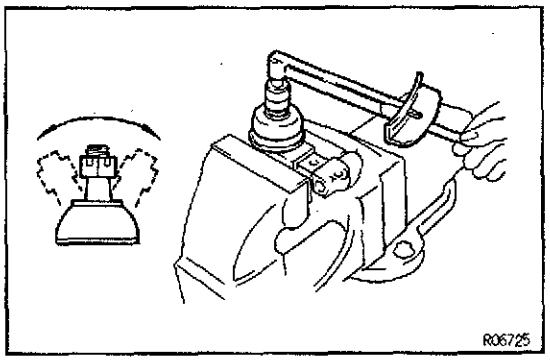
5. **REMOVE LOWER BALL JOINT**

(a) Remove the lower suspension arm.
(See page SA–32)

(b) Disassemble the lower suspension arm.
(See page SA–33)

SA





SA

UPPER AND LOWER BALL JOINT INSPECTION

8A0XL-01

INSPECT BALL JOINTS

(a) As shown in the illustration, flip the ball joint stud back and forth 5 times before installing the nut.

(b) Using a torque gauge, turn the nut continuously one turn each 2–4 seconds and take the torque reading on the 5th turn.

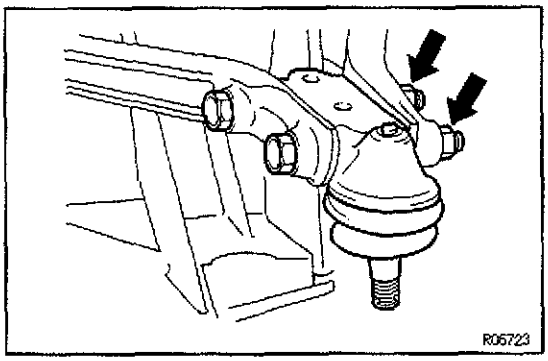
Torque (turning):

Lower ball joint

4.4–8.3 N·m (45–85 kgf·cm, 39–74 in.·lbf)

Upper ball joint

2.5–5.9 N·m (25–60 kgf·cm, 22–52 in.·lbf)



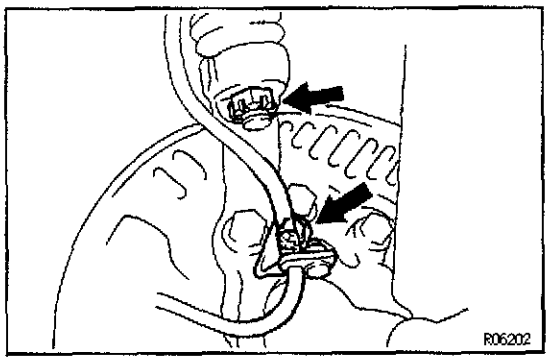
UPPER AND LOWER BALL JOINT INSTALLATION

8A0XM-01

1. INSTALL UPPER BALL JOINT

Install the upper ball joint with the bolts and nuts.

Torque: 230 N·m (2,300 kgf·cm, 170 ft·lbf)



2. CONNECT STEERING KNUCKLE

(a) Jack up the lower arm, and connect the steering knuckle.

(b) Install and torque the upper ball joint nut.

Torque: 170 N·m (1,700 kgf·cm, 126 ft·lbf)

(c) Install a new cotter pin.

(d) Install the brake hose bracket to the steering knuckle.

3. INSTALL LOWER BALL JOINT

(a) Assemble the lower suspension arm.
(See page SA–34)

(b) Install the lower suspension arm.
(See page SA–34)

4. INSTALL FRONT WHEEL AND LOWER VEHICLE

Torque: 515 N·m (5,250 kgf·cm, 380 ft·lbf)