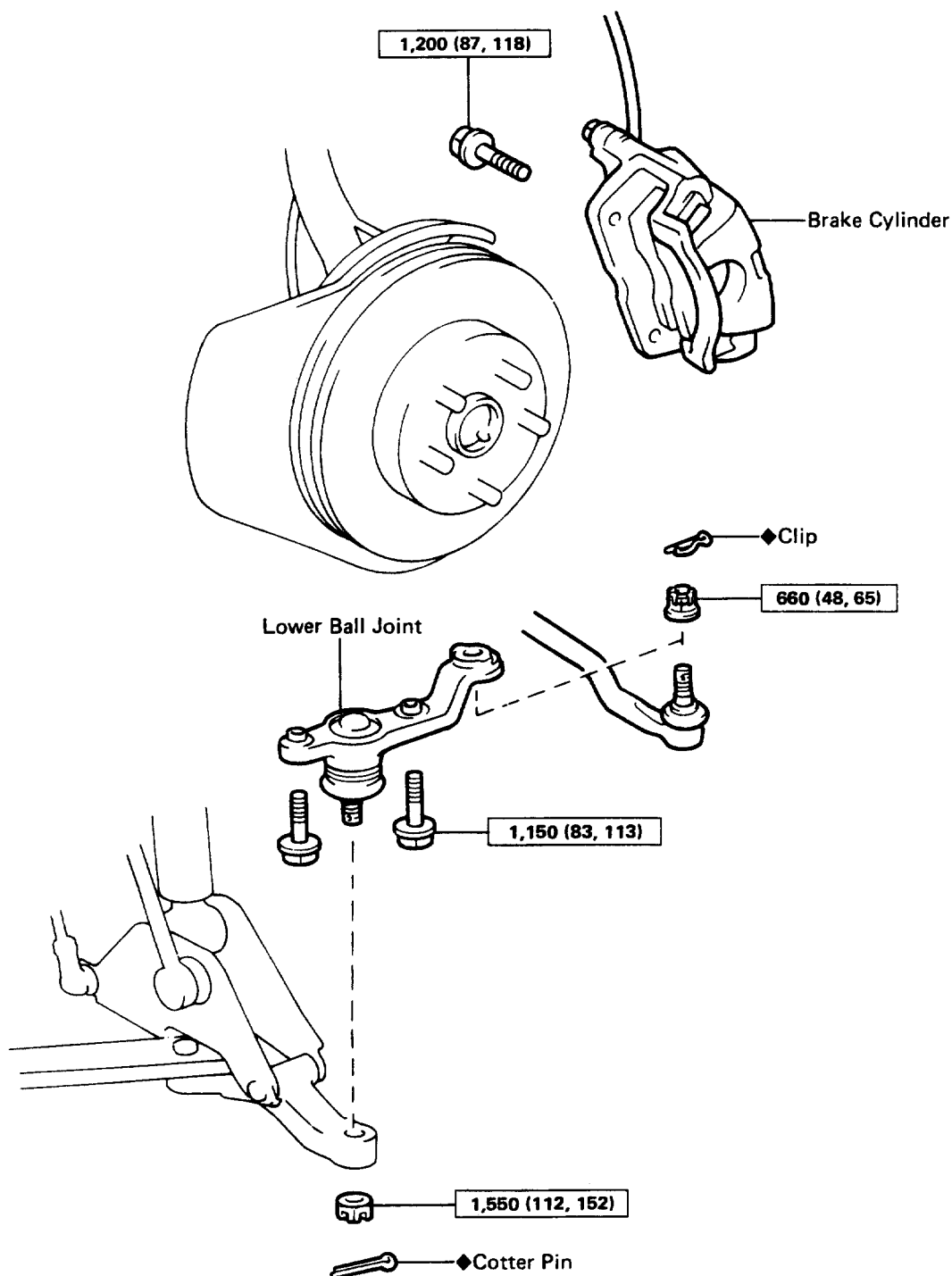
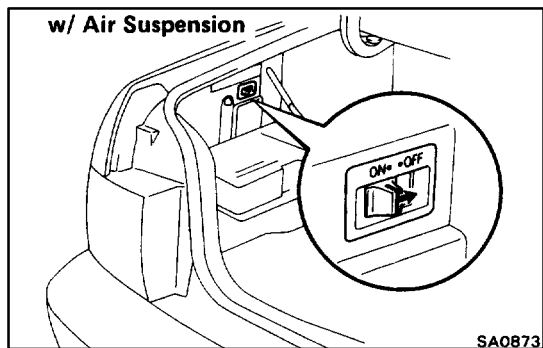


Lower Ball Joint COMPONENTS



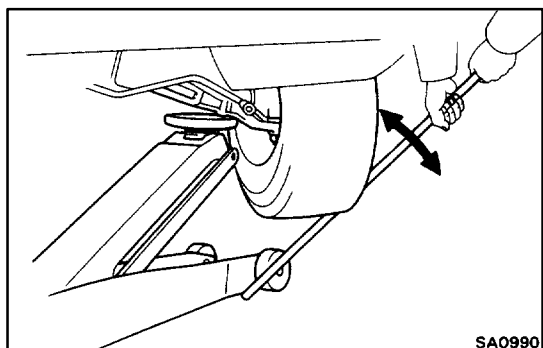
kg-cm (ft-lb, N·m) : Specified torque

◆ Non-reusable part



ON-VEHICLE INSPECTION OF LOWER BALL JOINT

1. (w/ AIR SUSPENSION)
MOVE HEIGHT CONTROL ON/OFF SWITCH IN LUG-
GAGE COMPARTMENT TO "OFF"



2. 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-ahead position, and depress the brake pedal.
- (c) Jack up the lower suspension arm until there is about half a load on the front coil spring.
- (d) Move the front wheel up and down and check that the ball joint has no excessive play.

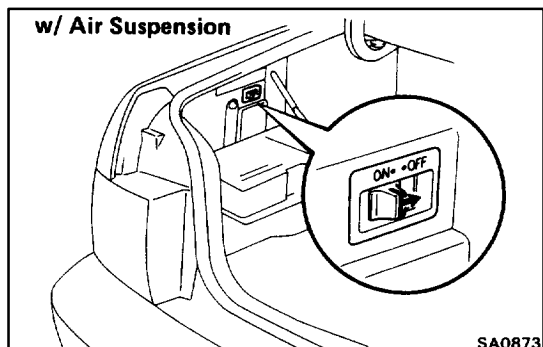
Maximum lower ball joint vertical play:

0.3 mm (0.012 in.)

3. (w/ AIR SUSPENSION)
MOVE HEIGHT CONTROL ON/OFF SWITCH TO "ON"

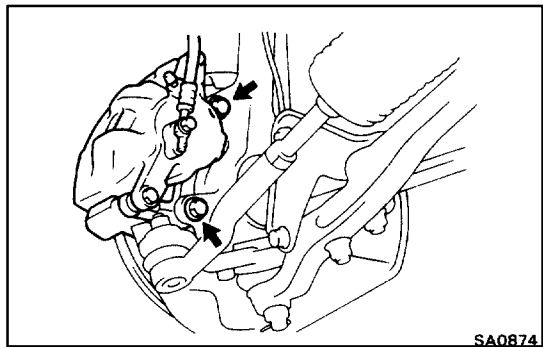
REMOVAL OF LOWER BALL JOINT

1. (w/ AIR SUSPENSION)
MOVE HEIGHT CONTROL ON/OFF SWITCH TO "OFF"
2. JACK UP VEHICLE, REMOVE FRONT WHEEL



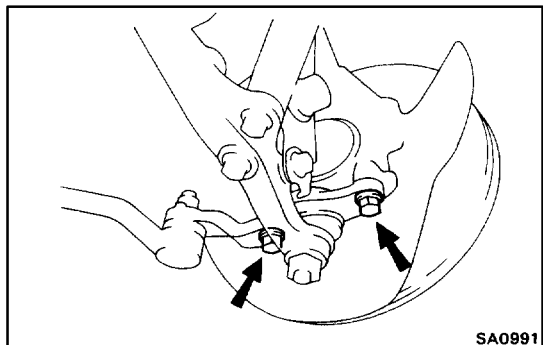
3. REMOVE FRONT BRAKE CYLINDER

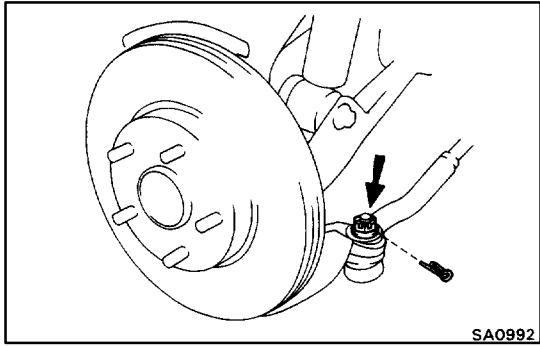
- (a) Remove the two bolts and remove the brake cylinder from the steering knuckle.
- (b) Hang up the brake cylinder using wire, etc.



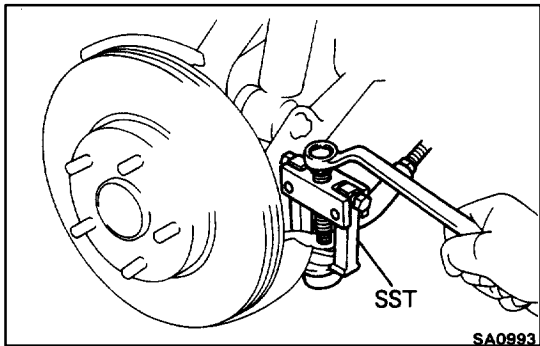
4. REMOVE LOWER BALL JOINT

- (a) Loosen the two bolts.
HINT: Do not remove the bolts.



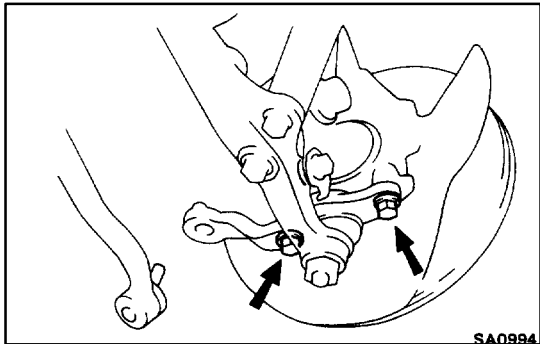


(b) Remove the clip and nut from the tie rod.

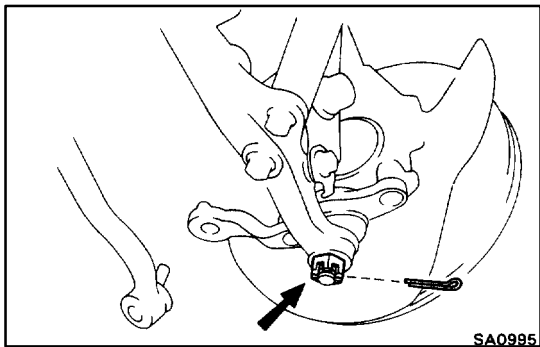


(c) Using SST, disconnect the tie rod from the steering knuckle arm.

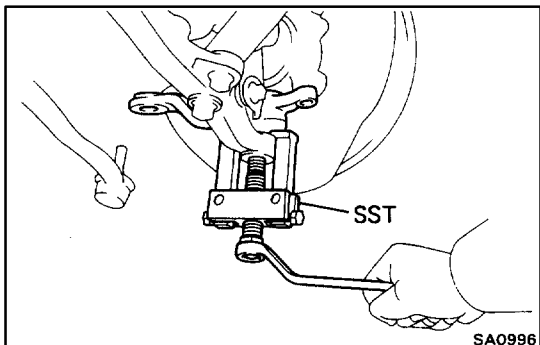
SST 09628-62011



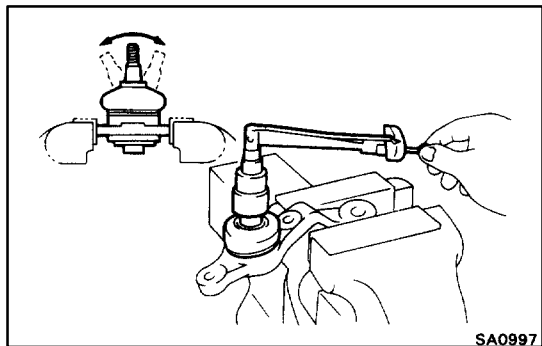
(d) Remove the two bolts and disconnect the lower ball joint from steering knuckle.



(e) Remove the cotter pin and nut from the lower ball joint.



(f) Using SST, remove the lower ball joint from 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 installing the nut.
- Using a torque gauge, turn the nut continuously one turn per 2–4 seconds and take the torque reading on the 5th turn.

Torque (turning): 0–5 kg-cm
(0–4.3 in.-lb, 0–0.5 N-m)

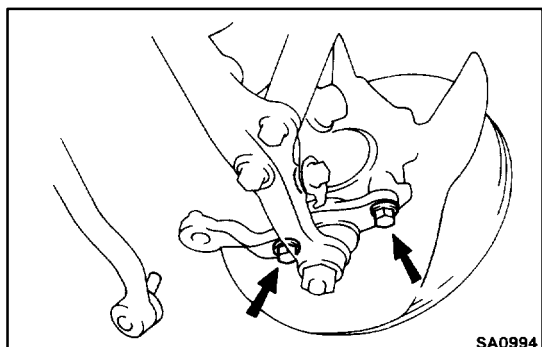
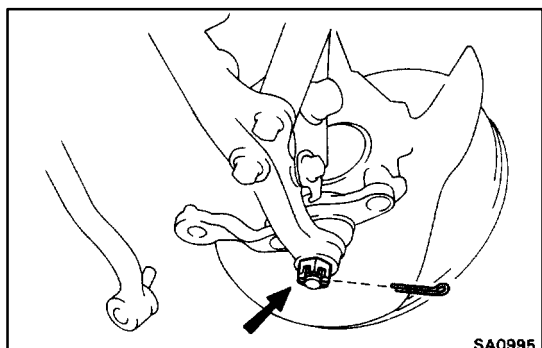
If not within specification, replace the lower ball joint.

INSTALLATION OF LOWER BALL JOINT

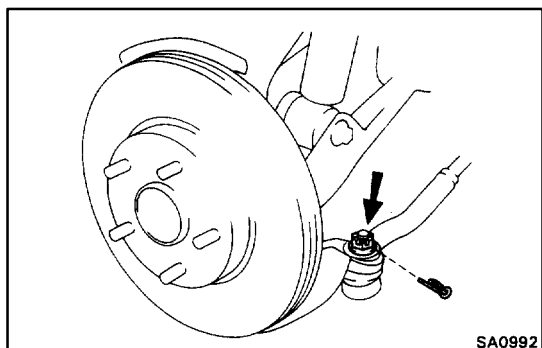
1. INSTALL LOWER BALL JOINT

- Install the lower ball joint to the lower arm.
- Tighten the nut and install a new cotter pin.

Torque: 1,550 kg-cm (112 ft-lb, 152 N-m)



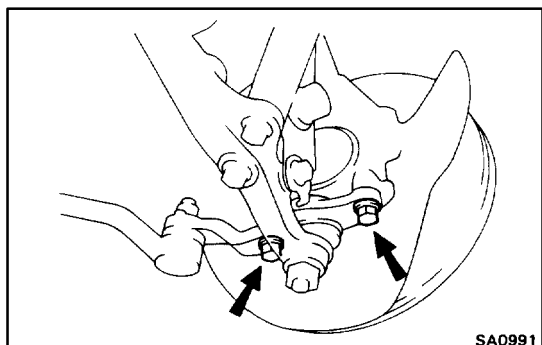
- Connect the lower ball joint to the steering knuckle and temporarily tighten the two bolts.



- Connect the tie rod to the steering knuckle arm and tighten the nut.

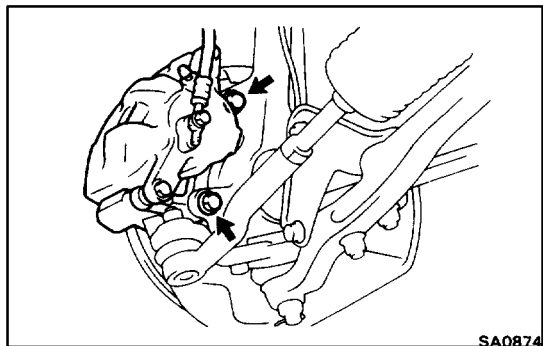
Torque: 600 kg-cm (43 ft-lb, 59 N-m)

- Install a new clip.



- Torque the two bolts on the lower ball joint.

Torque: 1,150 kg-cm (83 ft-lb, 113 N-m)

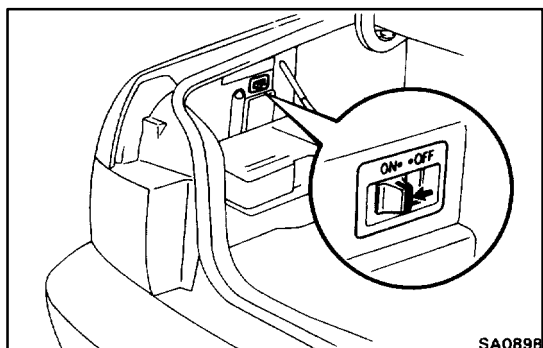
**2. INSTALL FRONT BRAKE CYLINDER**

Install the brake cylinder to the steering knuckle and tighten the two bolts.

Torque: 1,200 kg-cm (87 ft-lb, 118 N·m)

3. INSTALL FRONT WHEEL AND LOWER VEHICLE

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

**4. (w/ AIR SUSPENSION)**

MOVE HEIGHT CONTROL ON/OFF SWITCH TO "ON"