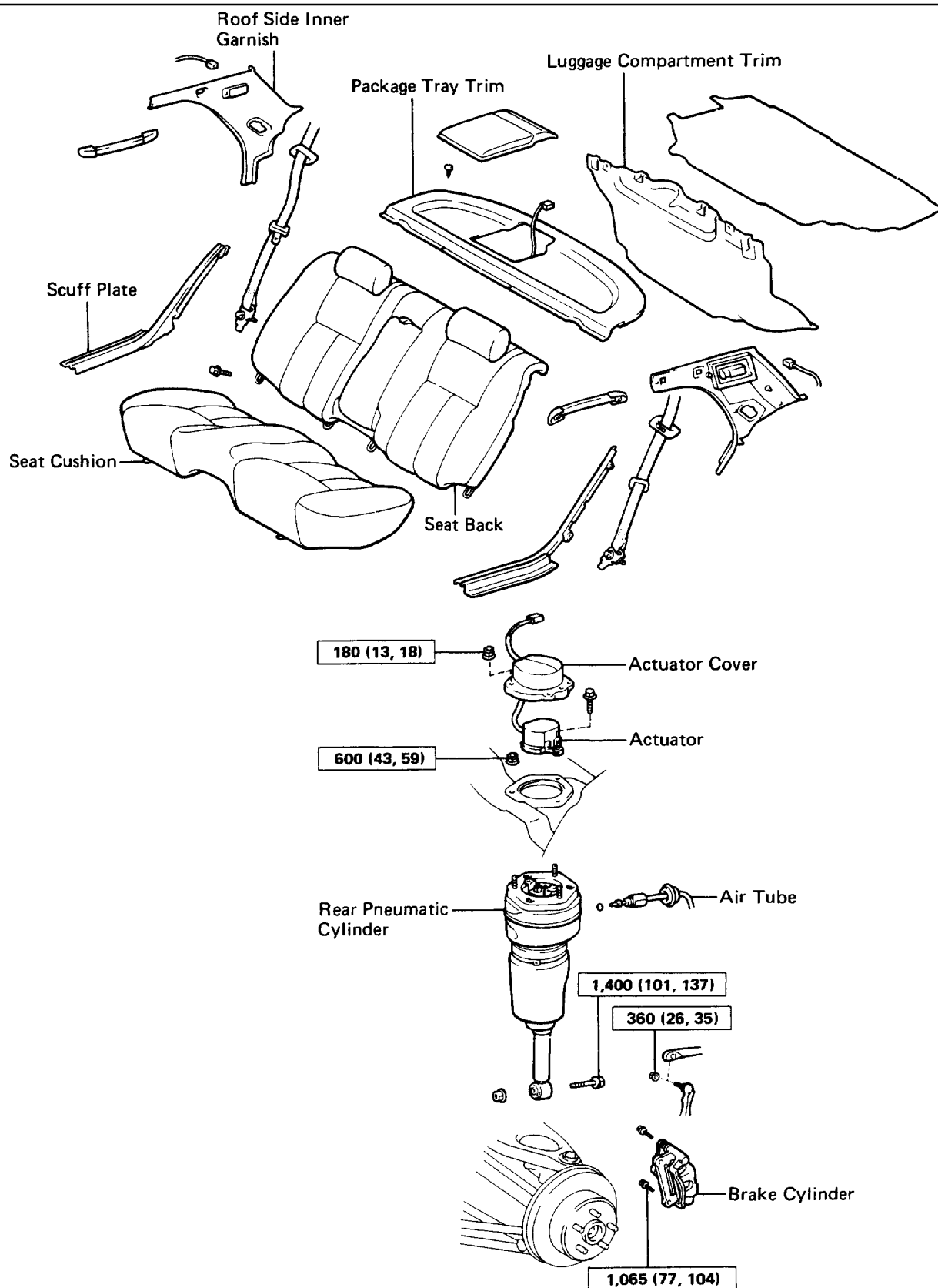
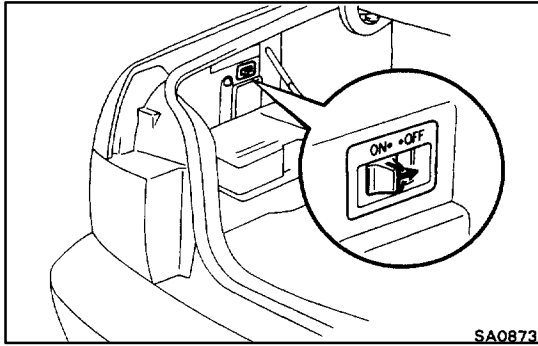


Rear Pneumatic Cylinder COMPONENTS



kg-cm (ft-lb, N·m) : Specified torque



SA0873

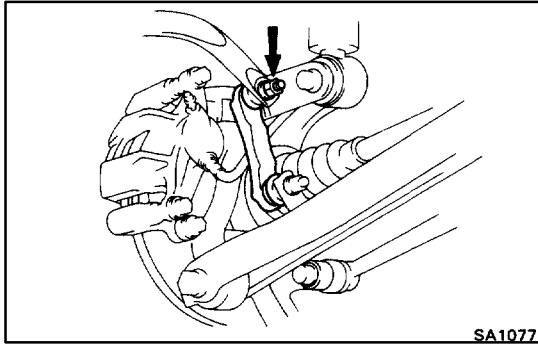
REMOVAL OF REAR PNEUMATIC CYLINDER

1. **MOVE HEIGHT CONTROL ON/OFF SWITCH IN LUGGAGE COMPARTMENT TO "OFF"**

2. **JACK UP VEHICLE, REMOVE REAR WHEEL**

3. **REMOVE FOLLOWING PARTS**

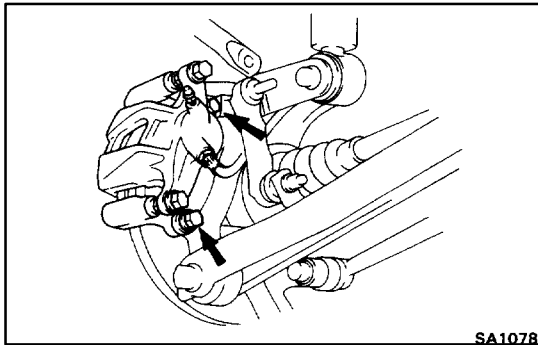
- (a) Remove the rear seat cushion and rear seat back.
(See page BO-91)
- (b) Remove the right and left rear scuff plates.
(See page BO-180)
- (c) Remove the right and left roof side inner garnishes.
(See page BO-180)
- (d) Remove the package tray trim.
(See page BO-180)
- (e) Remove the luggage compartment trim.
(See page BO-112)



SA1077

4. **DISCONNECT STABILIZER BAR LINKS**

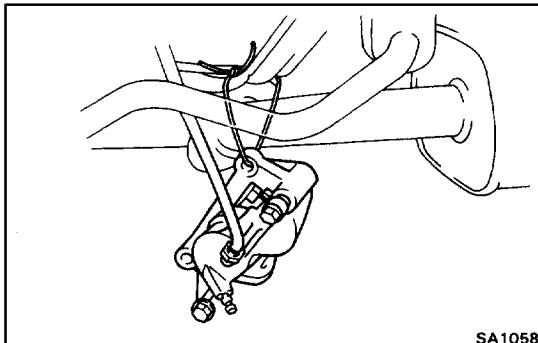
Disconnect the right and left stabilizer bar links from the stabilizer bar.



SA1078

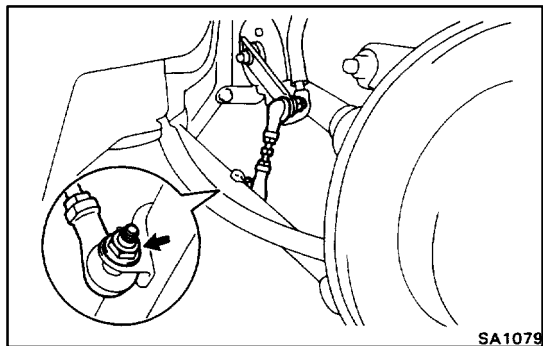
5. **REMOVE REAR BRAKE CYLINDER**

- (a) Remove the two bolts and remove the brake cylinder from the rear axle carrier.

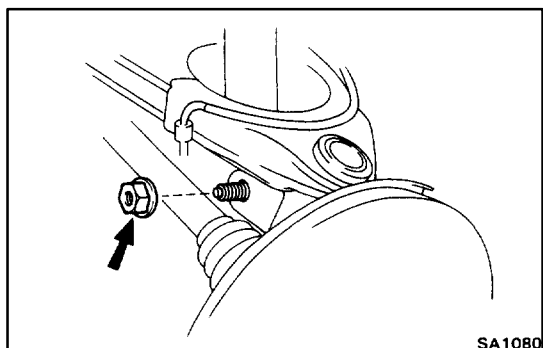


SA1058

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



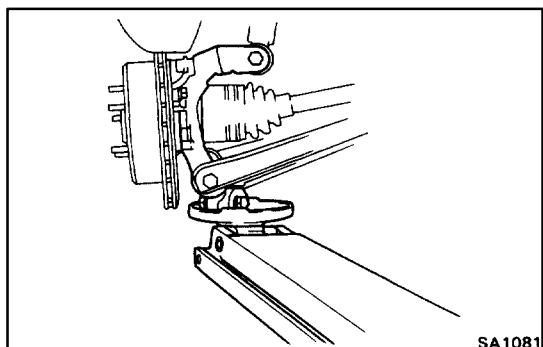
6. **DISCONNECT HEIGHT CONTROL SENSOR LINK FROM NO. 1 LOWER ARM**



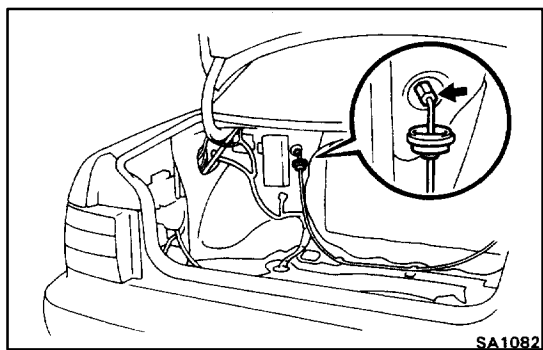
7. **REMOVE NUT ON LOWER SIDE OF PNEUMATIC CYLINDER**

(a) Remove the nut.

HINT: Do not remove the bolt.

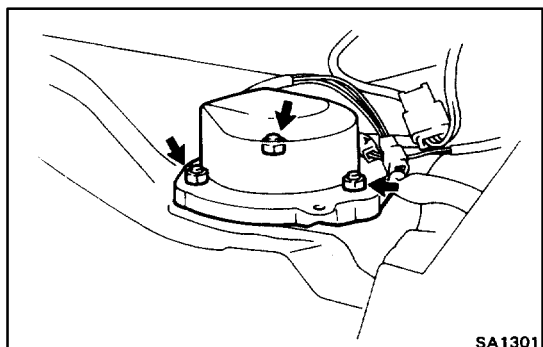


- (b) Support the rear axle carrier with jack.



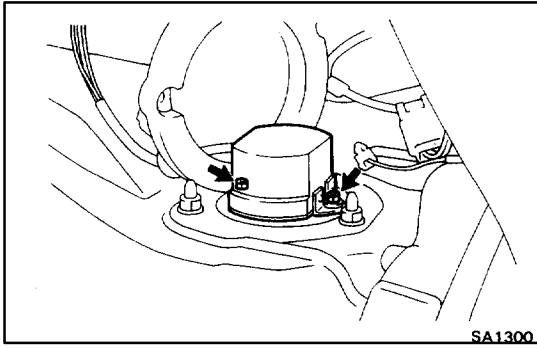
8. **DISCONNECT AIR TUBE FROM PNEUMATIC CYLINDER**

Remove the grommet and disconnect the air tube from the pneumatic cylinder.

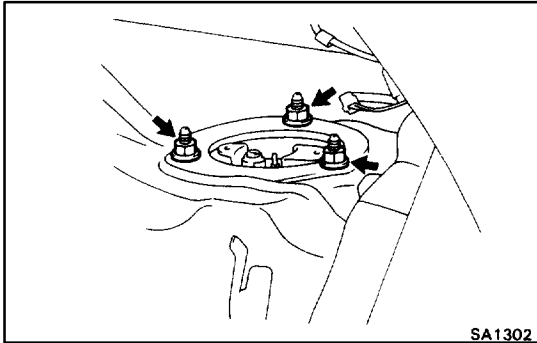


9. **REMOVE SUSPENSION CONTROL ACTUATOR**

(a) Remove the three nuts and remove the actuator cover.

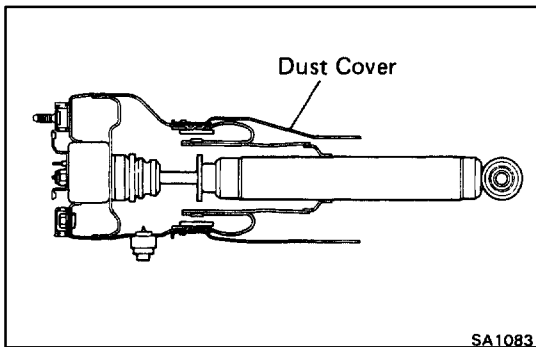


- (b) Remove the two bolts and remove the actuator.



10. REMOVE PNEUMATIC CYLINDER

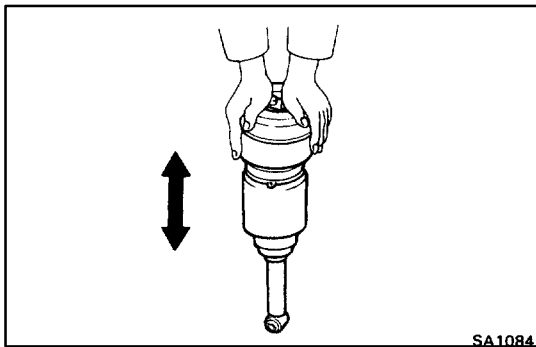
- (a) Remove the three nuts.
- (b) Lower the rear axle carrier and remove the bolt on lower side of pneumatic cylinder.
- (c) Remove the pneumatic cylinder.



INSPECTION OF REAR PNEUMATIC CYLINDER

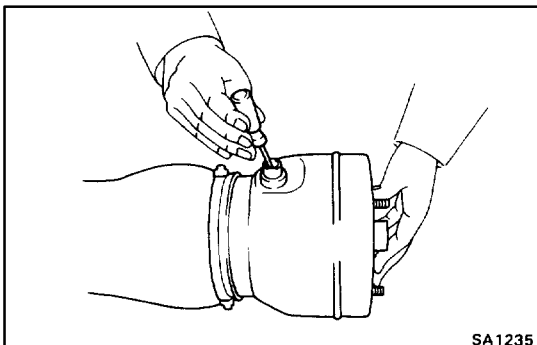
1. INSPECT ROLLING DIAPHRAGM

- (a) Lift up the dust cover and check that the rolling diaphragm is not damaged or cracked.
If damage or cracks exist, replace the pneumatic cylinder.
- (b) Return the dust cover back to position.

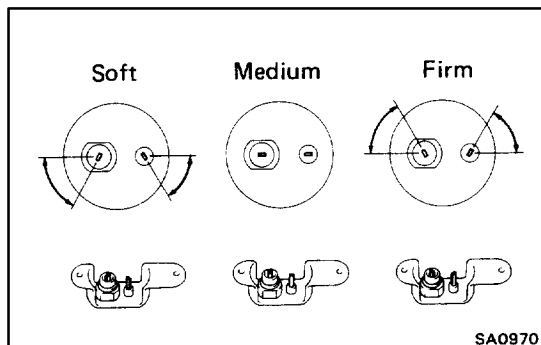


2. INSPECT DAMPING FORCE

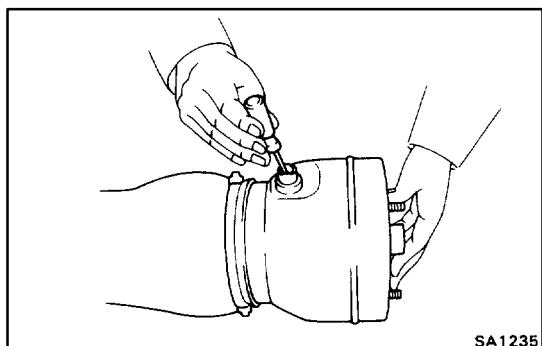
- (a) Compress and extend the pneumatic cylinder and check that there is no abnormal resistance or unusual operation sounds.
If the pneumatic cylinder is not normal, replace it.



HINT: If air remains inside the pneumatic cylinder, remove the air from the cylinder using a screwdriver, etc. before inspecting the cylinder.



- (b) Check that there is a difference in the damping force when the rods are positioned as shown in the diagram.



DISPOSAL OF FRONT PNEUMATIC CYLINDER

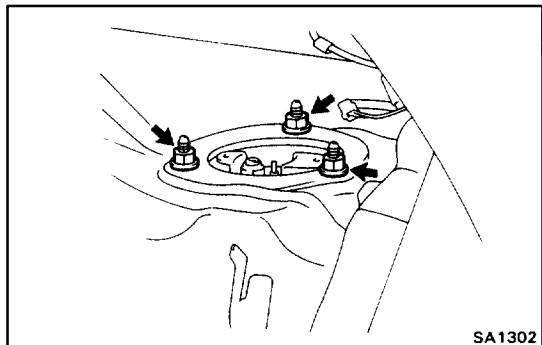
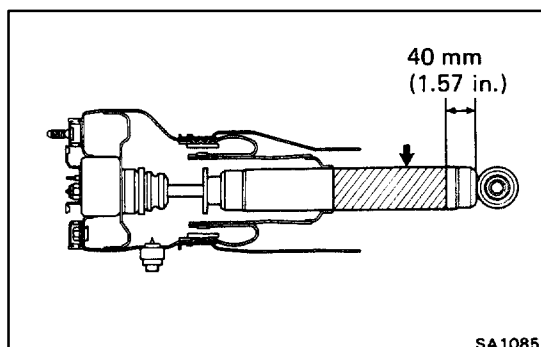
1. REMOVE AIR FROM INSIDE CYLINDER

Using a screwdriver, etc. remove the air from inside the cylinder.

2. MAKE A HOLE IN SHOCK ABSORBER AND REMOVE GAS

- (a) Fully extend the pneumatic cylinder.
 (b) Using a drill, make a hole in the cylinder as shown to remove the gas inside.

CAUTION: The gas coming out is harmless, but be careful of chips which may fly up when drilling.

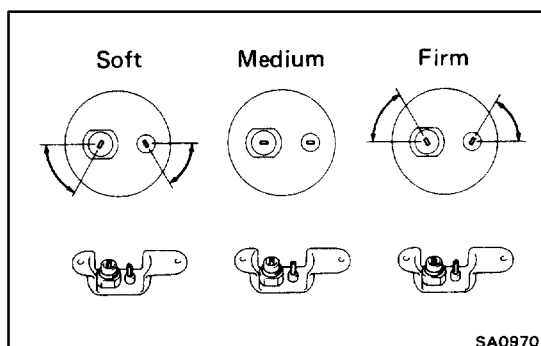


INSTALLATION OF REAR PNEUMATIC CYLINDER

1. INSTALL PNEUMATIC CYLINDER

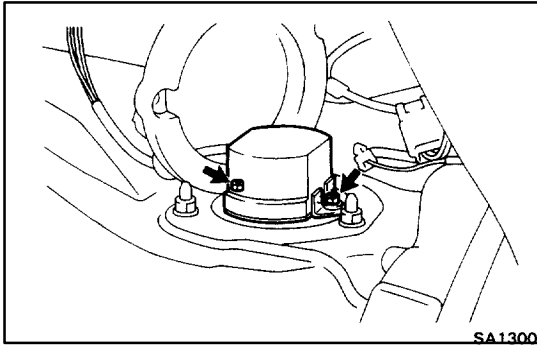
Install the pneumatic cylinder to the vehicle with the three nuts.

Torque: 600 kg-cm (43 ft-lb, 59 N·m)

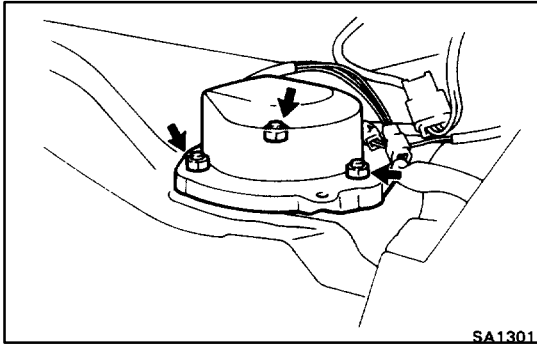


2. INSTALL SUSPENSION CONTROL ACTUATOR

- (a) Match the rods of the pneumatic cylinder with the holes in the suspension control actuator.

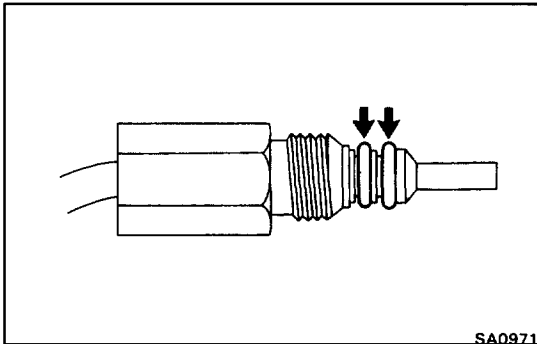


(b) Install the actuator using two bolts.



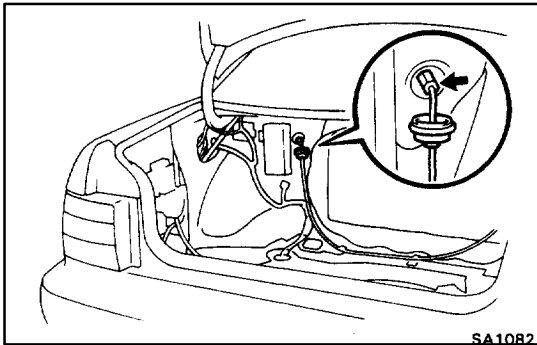
(c) Install the actuator cover with the three nuts.

Torque: 180 kg-cm (13 ft-lb, 18 N-m)



3. CONNECT AIR TUBE TO PNEUMATIC CYLINDER

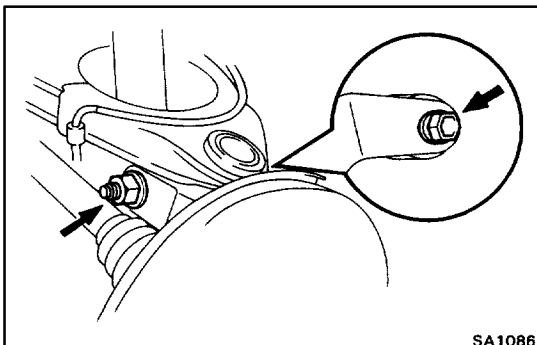
(a) Install two new O-rings to the air tube.



(b) Connect the air tube to the pneumatic cylinder.

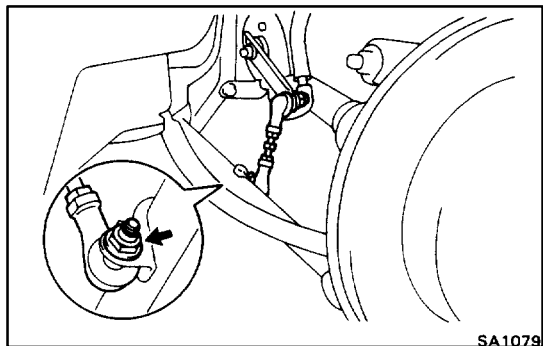
Torque: 175 kg-cm (13 ft-lb, 17 N-m)

(c) Install the grommet.



4. INSTALL PNEUMATIC CYLINDER TO REAR AXLE CARRIER

Insert the bolt from the vehicle's rear and temporarily tighten the nut.

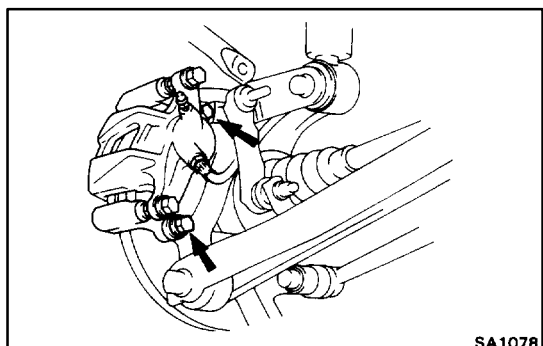


SA1079

5. CONNECT HEIGHT CONTROL SENSOR LINK TO NO. 1 LOWER ARM

Using a new nut, connect the height control sensor link to the No. 1 lower arm.

Torque: 55 kg-cm (48 in.-lb, 5 N-m)

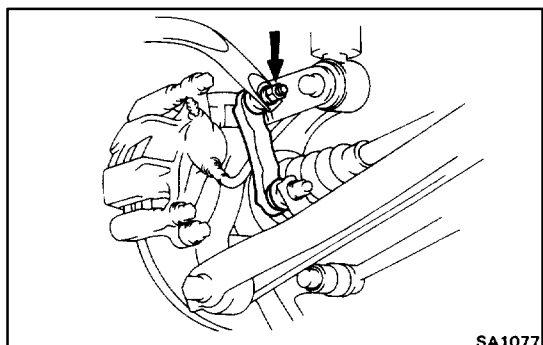


SA1078

6. INSTALL REAR BRAKE CYLINDER

Install the brake cylinder to the rear axle carrier with the two bolts.

Torque: 1,065 kg-cm (77 ft-lb, 104 N-m)

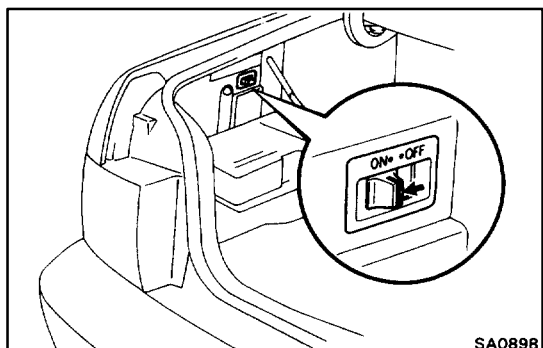


SA1077

7. CONNECT STABILIZER BAR LINKS

Connect the right and left stabilizer bar links to the stabilizer bar.

Torque: 360 kg-cm (26 ft-lb, 35 N-m)



SA0898

8. STABILIZE SUSPENSION

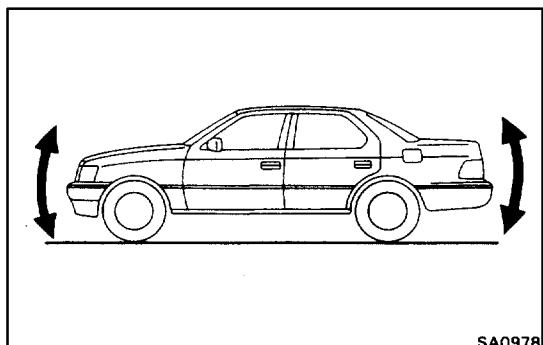
(a) Install the rear wheel and jack down the vehicle.

NOTICE: Be careful of objects sticking out from the floor as the vehicle height is noticeably lower due to the air taken out of the pneumatic cylinders.

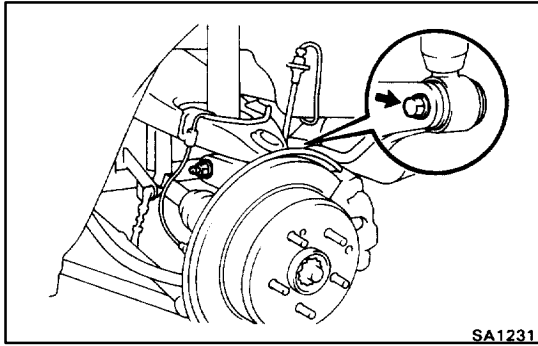
(b) Move the height control ON/OFF switch to "ON".

(c) Start the engine and fill up the pneumatic cylinder with air.

(d) Bounce the vehicle up and down several times to stabilize the suspension.



SA0978

**9. TORQUE BOLT ON LOWER SIDE OF PNEUMATIC CYLINDER**

- (a) Jack up the vehicle and remove the rear wheel.
- (b) Support the rear axle carrier with jack.
- (c) Torque the bolt to the specified torque.

Torque: 1,400 kg-cm (101 ft-lb, 137 N-m)

10. INSTALL REAR WHEEL AND LOWER VEHICLE

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

11. INSTALL FOLLOWING PARTS

- (a) Install the luggage compartment trim.
(See page BO-114)
- (b) Install the package tray trim.
(See page BO-182)
- (c) Install the right and left roof side inner garnishes.
(See page BO-182)
- (d) Install the right and left rear scuff plates.
(See page BO-183)
- (e) Install the rear seat back and rear seat cushion.
(See page BO-92)

12. CHECK REAR WHEEL ALIGNMENT

(See page [SA-5](#))