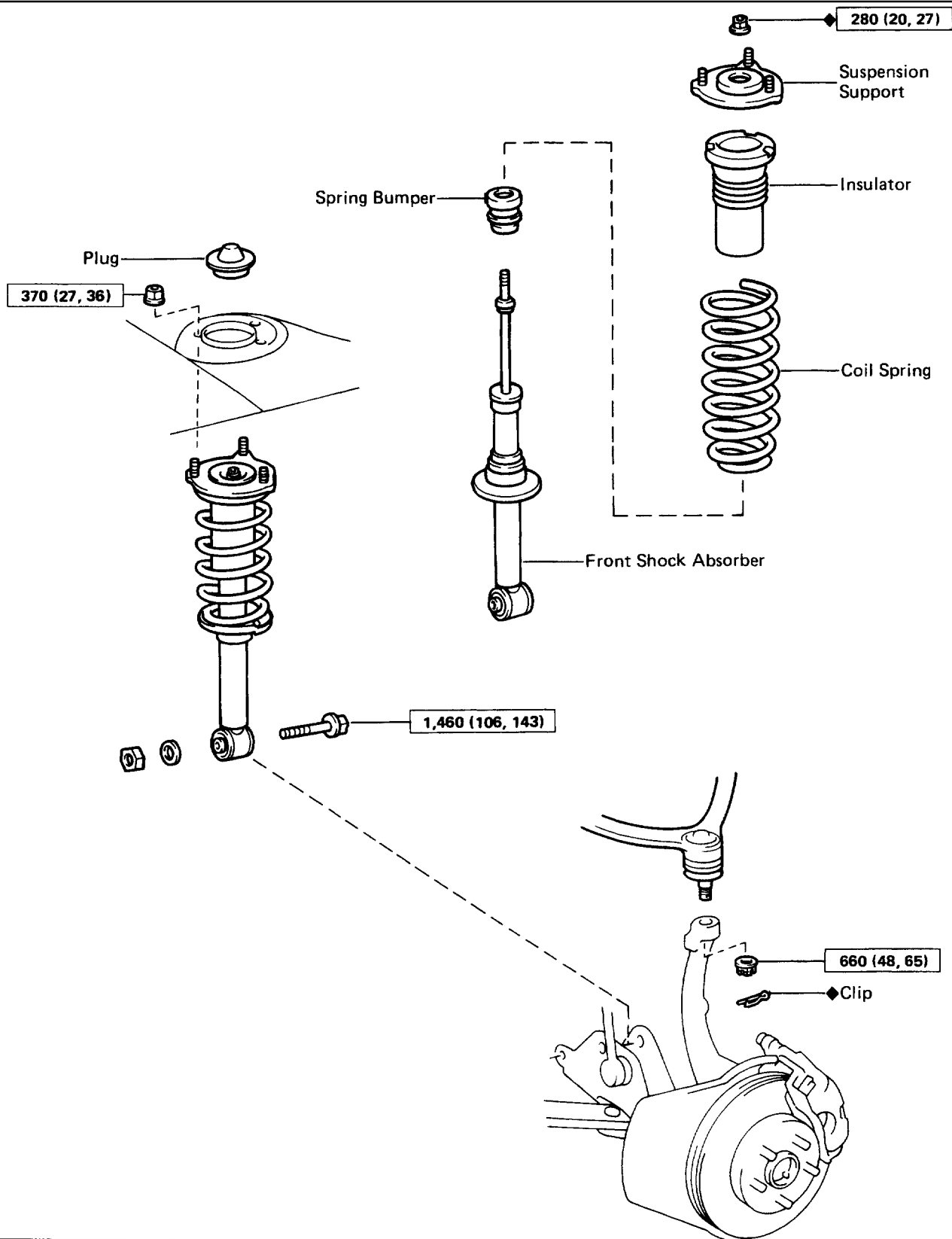
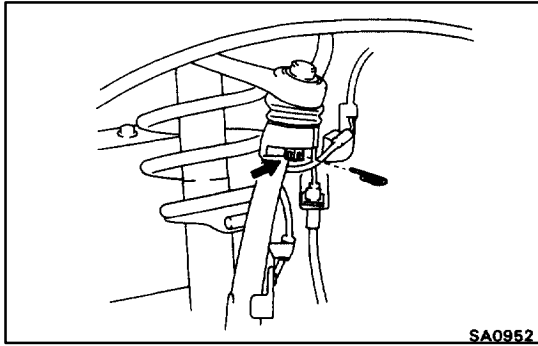


Front Shock Absorber COMPONENTS



kg-cm (ft-lb, N·m) : Specified torque

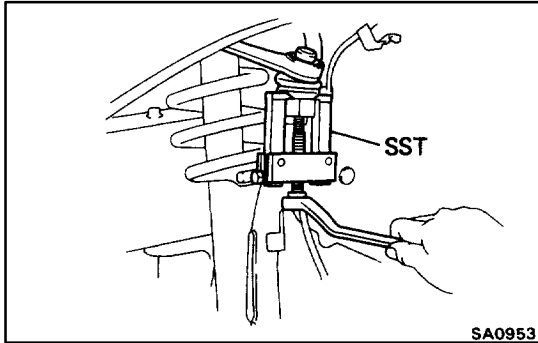
◆ Non-reusable part



REMOVAL OF FRONT SHOCK ABSORBER

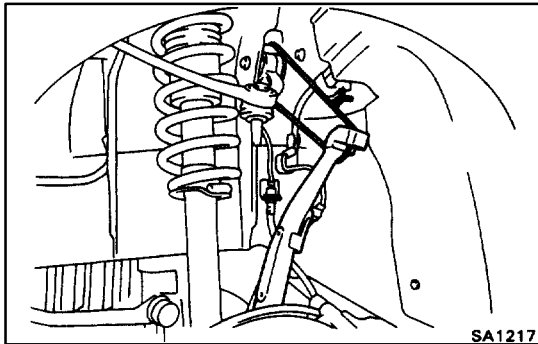
1. JACK UP VEHICLE AND REMOVE FRONT WHEEL
2. REMOVE STEERING KNUCKLE FROM UPPER BALL JOINT

(a) Remove the clip from upper ball joint and remove the nut.

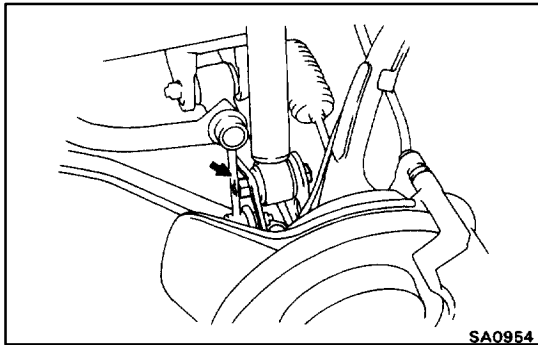


(b) Using SST, remove the steering knuckle from the upper ball joint.

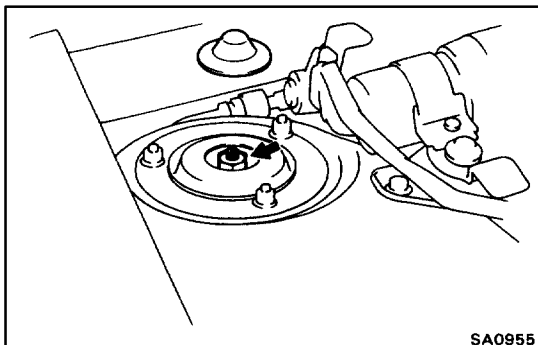
SST 09628-62011



(c) Restrain the steering knuckle with wire, etc. so that too much force is not exerted on the brake hose and speed sensor wire harness.



3. REMOVE SHOCK ABSORBER FROM SHOCK ABSORBER LOWER BRACKET

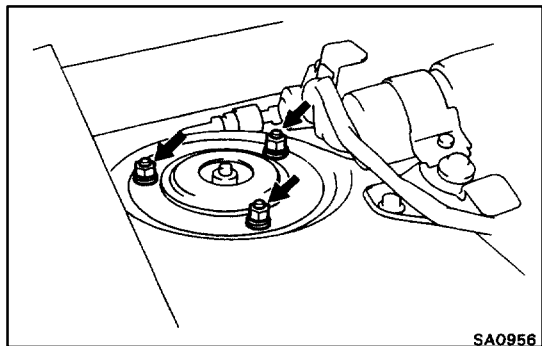


4. REMOVE SHOCK ABSORBER WITH COIL SPRING

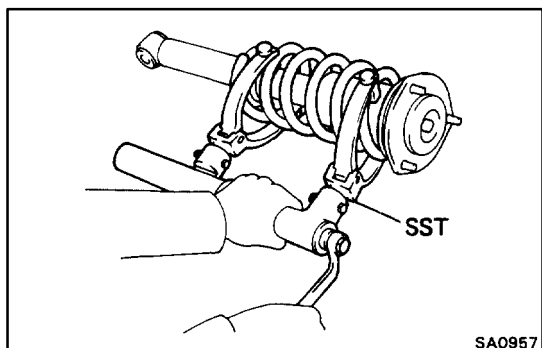
(a) Remove the plug from suspension support.

(b) Loosen the nut in the middle of the suspension support.

NOTICE: Only loosen the nut, do not remove it.

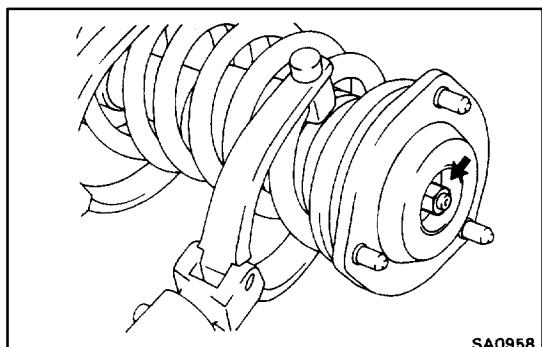


- (c) Remove the other three nuts and remove the shock absorber with coil spring from the vehicle.

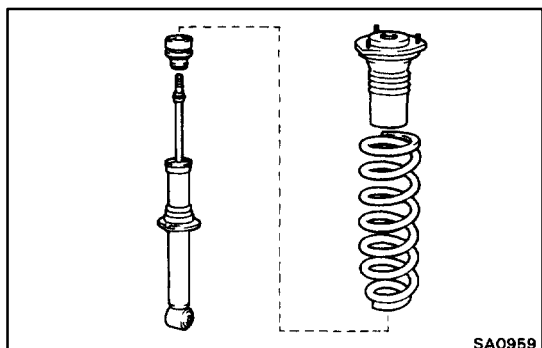


5. REMOVE SUSPENSION SUPPORT AND COIL SPRING

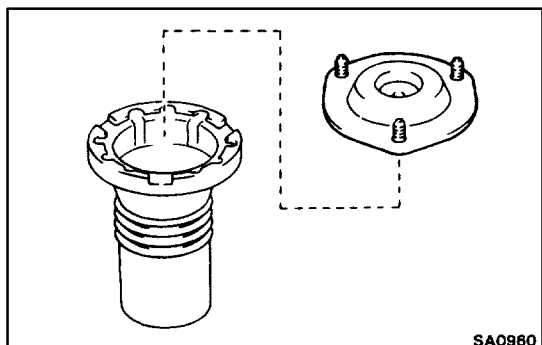
- (a) Using SST, compress the coil spring.
SST 09727-30020



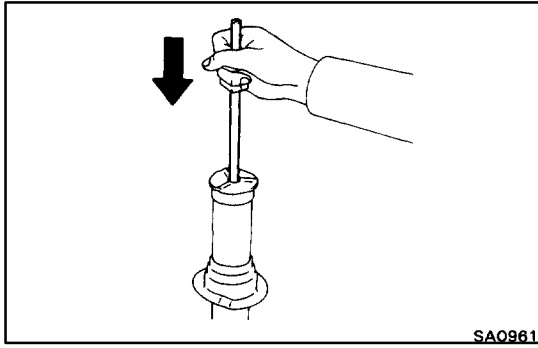
- (b) Remove suspension support center nut.



- (c) Remove the suspension support, coil spring and spring bumper.



6. REMOVE INSULATOR FROM SUSPENSION SUPPORT



SA0961

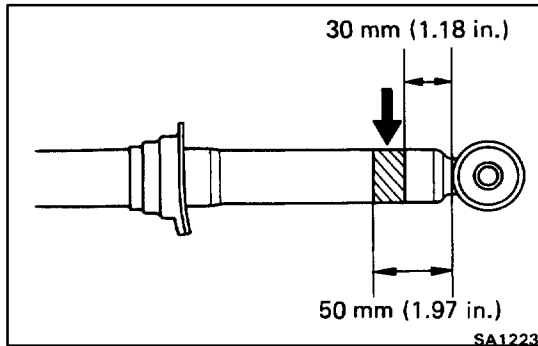
INSPECTION OF FRONT SHOCK ABSORBER

1. INSPECT SHOCK ABSORBER

Compress and extend the shock absorber rod and check that there is no abnormal resistance or unusual operation sounds.

If there is any abnormality, replace the shock absorber with a new one.

NOTICE: When discarding the shock absorber, use the following procedure.



SA1223

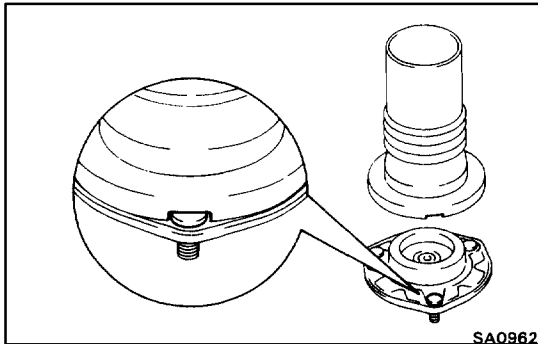
DISPOSAL OF FRONT SHOCK ABSORBER

1. FULLY EXTEND SHOCK ABSORBER ROD

2. DRILL HOLE TO REMOVE GAS FROM CYLINDER

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.

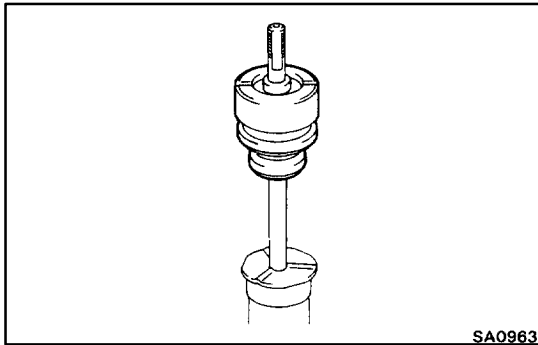


SA0962

INSTALLATION OF FRONT SHOCK ABSORBER

1. INSTALL INSULATOR TO SUSPENSION SUPPORT

HINT: Match the bolt of the suspension support with the cut-out part of the insulator.



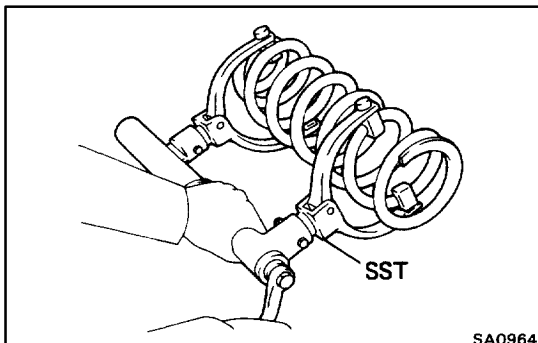
SA0963

2. INSTALL SPRING BUMPER TO SHOCK ABSORBER

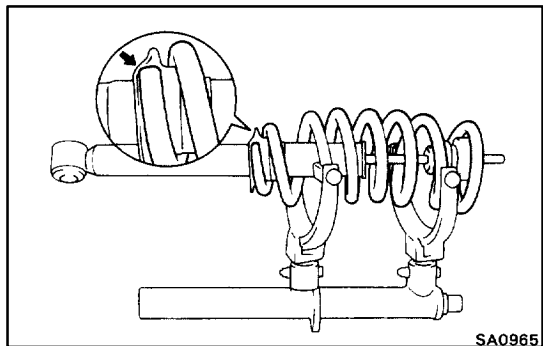
3. INSTALL COIL SPRING TO SHOCK ABSORBER

(a) Using SST, compress coil spring.

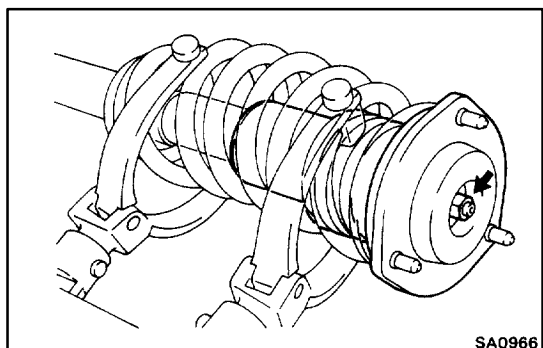
SST 09727-30020



SA0964

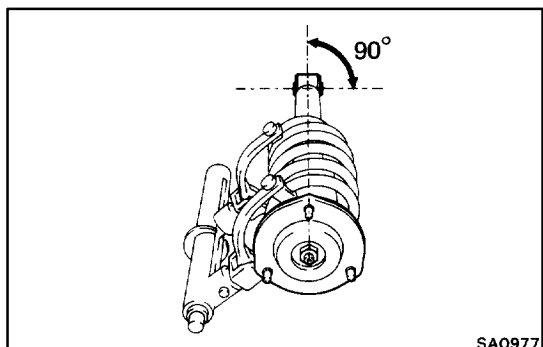


- (b) Install the coil spring to the shock absorber.
HINT: Fit the lower end of the coil spring into the gap of the spring seat of the shock absorber.



4. INSTALL SUSPENSION SUPPORT

- (a) Install the suspension support to the rod.
(b) Temporarily tighten a new nut.

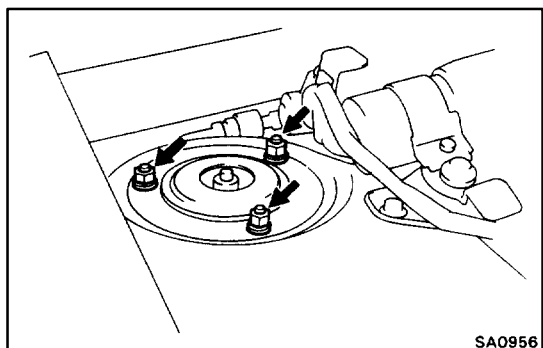


- (c) Turn the suspension support so that one of the bolts on the suspension support faces the same direction as shown in the figure.

HINT: Align the bolt so that a line drawn between the rod and the bolt would be 90° to the direction of the lower bushing.

5. REMOVE SST

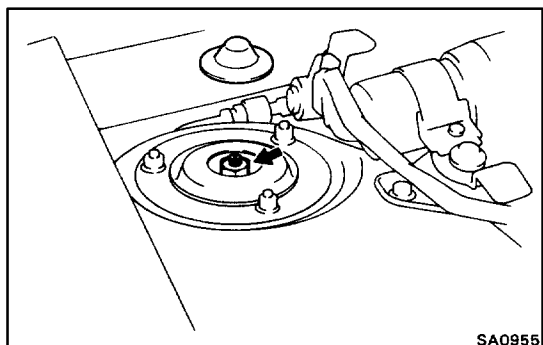
HINT: After removing the SST, again check the direction of the suspension support.



6. INSTALL SHOCK ABSORBER WITH COIL SPRING TO VEHICLE

- (a) Install the shock absorber with coil spring to the vehicle with the three nuts.

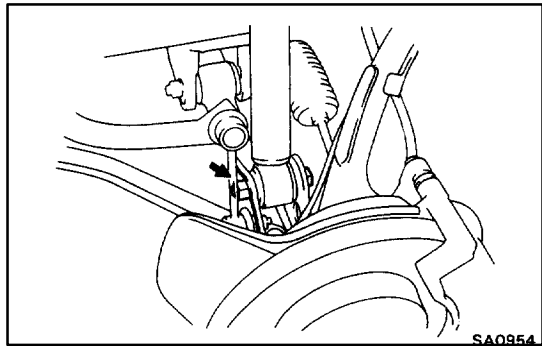
Torque: 370 kg-cm (27 ft-lb, 36 N·m)



- (b) Torque the temporarily tightened nut in the middle of the suspension support.

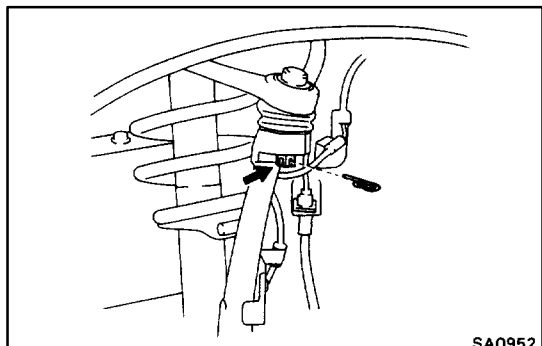
Torque: 280 kg-cm (20 ft-lb, 27 N·m)

- (c) Install the plug to the suspension support.



7. INSTALL SHOCK ABSORBER TO SHOCK ABSORBER LOWER BRACKET

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



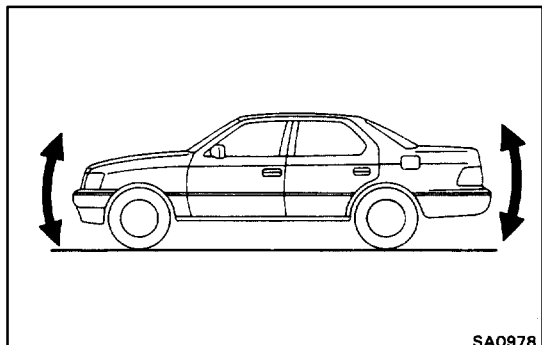
8. INSTALL STEERING KNUCKLE TO UPPER BALL JOINT

(a) Connect the steering knuckle to the upper ball joint and torque the nut.

Torque: 660 kg-cm (48 ft-lb, 65 N-m)

(b) Install new clip.

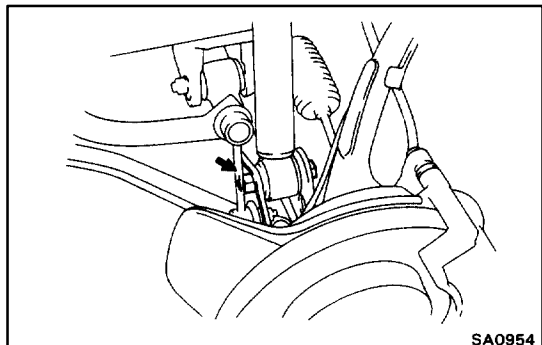
NOTICE: If the hole in the ball joint is not aligned with the grooves of the nut, tighten the nut until they match.



9. STABILIZE SUSPENSION

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

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



10. TORQUE NUT ON LOWER SIDE OF SHOCK ABSORBER

(a) Support the lower arm with jack and remove the front wheel.

(b) Torque the nut to the specified torque.

Torque: 1,460 kg-cm (106 ft-lb, 143 N-m)

11. INSTALL FRONT WHEEL AND LOWER VEHICLE

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

12. CHECK FRONT WHEEL ALIGNMENT

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