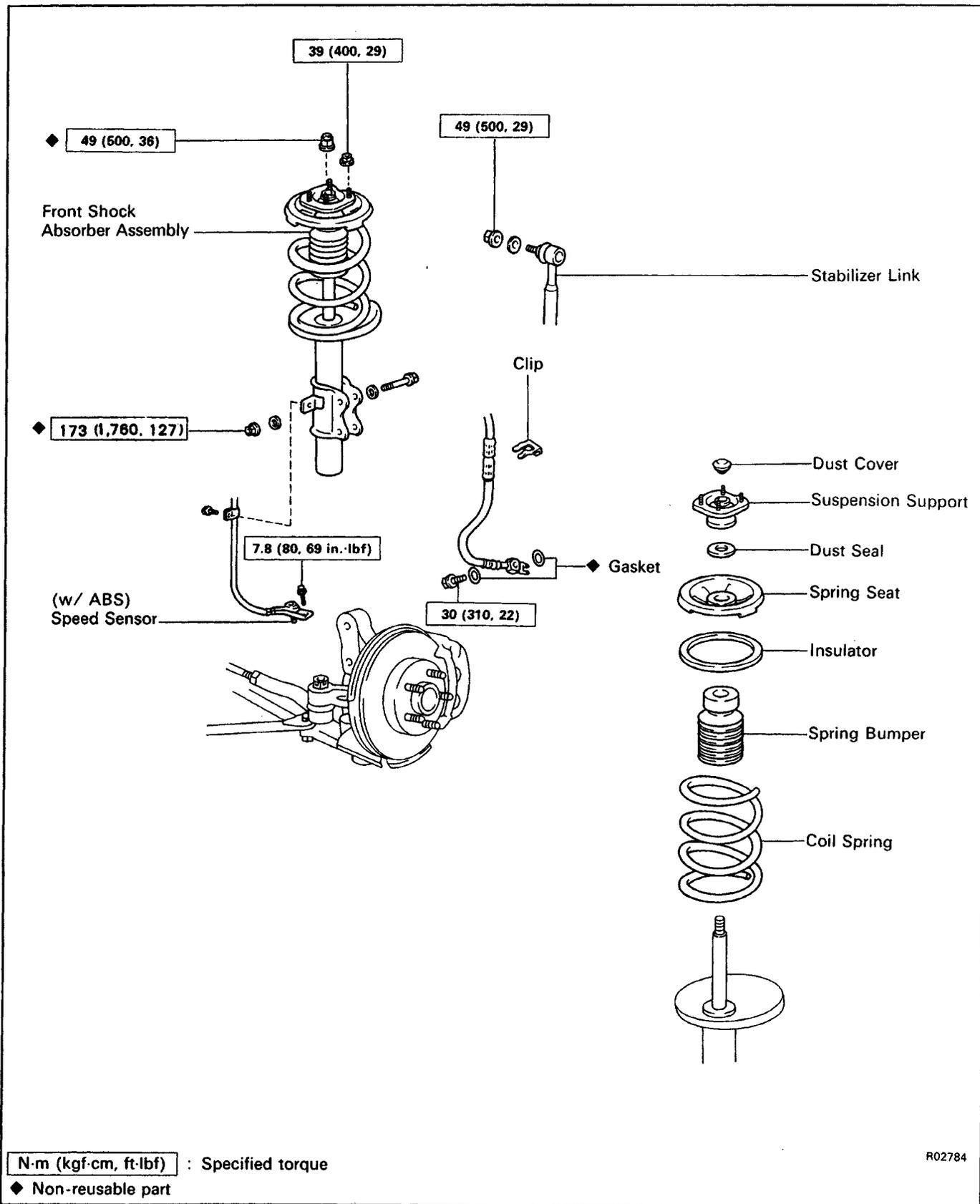


FRONT SHOCK ABSORBER COMPONENTS

SA088-01



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

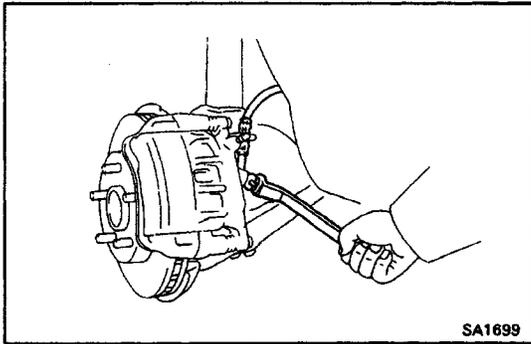
◆ Non-reusable part

FRONT SHOCK ABSORBER ASSEMBLY REMOVAL

1. JACK UP VEHICLE AND REMOVE FRONT WHEEL
2. DISCONNECT BRAKE HOSE

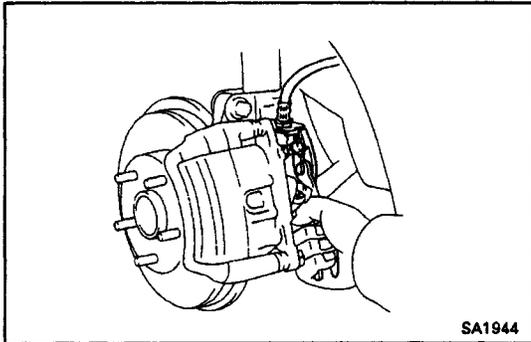
(a) Remove the union bolt and two gaskets, and disconnect the brake hose from the disc brake caliper.

HINT: Drain the brake fluid into a container.



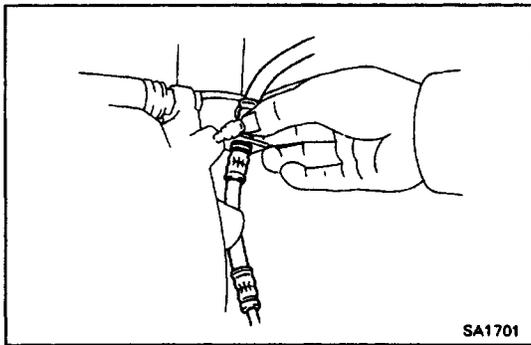
SA1699

(b) Remove the clip from the brake hose.



SA1944

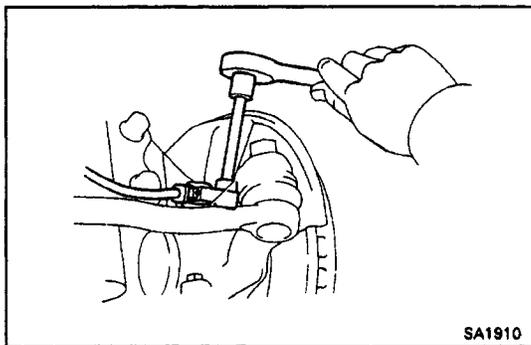
(c) Pull off the brake hose from the brake hose bracket.



SA1701

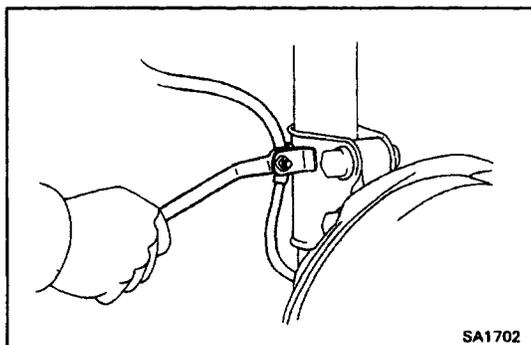
3. (w/ ABS)
REMOVE SPEED SENSOR AND WIRE HARNESS CLAMP

(a) Remove the bolt and pull out the speed sensor.

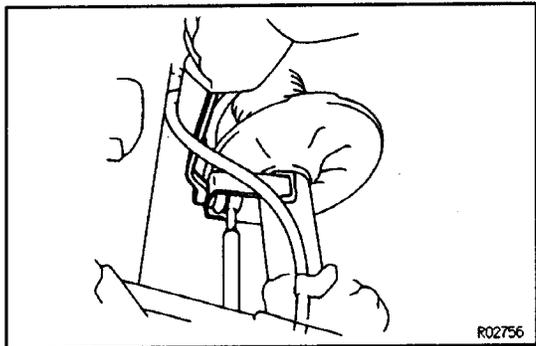


SA1910

(b) Remove the speed sensor wire harness clamp bracket bolt.



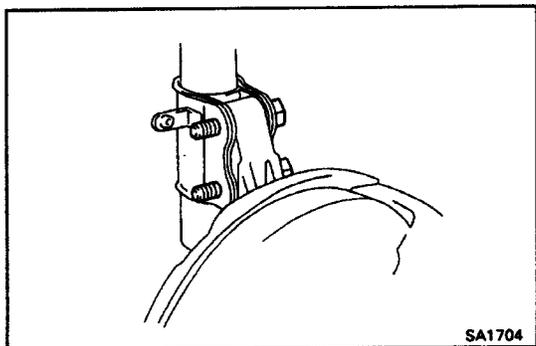
SA1702



4. DISCONNECT STABILIZER LINK

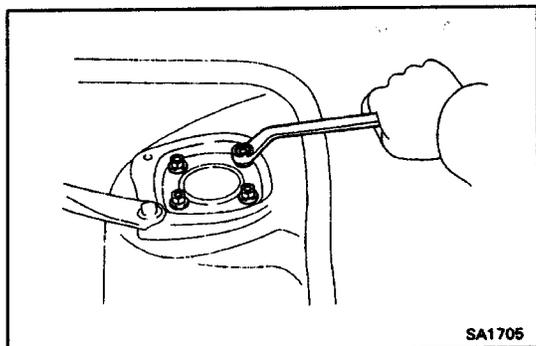
Disconnect the stabilizer link from the shock absorber.

HINT: If the ball joint stud turns together with the nut, use a hexagon wrench 5 mm (0.197 in.) to hold the stud.



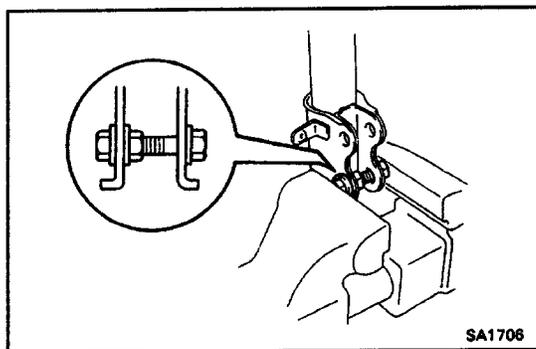
5. DISCONNECT SHOCK ABSORBER FROM STEERING KNUCKLE

Remove the washers, bolts and nuts, disconnect the shock absorber from the steering knuckle.



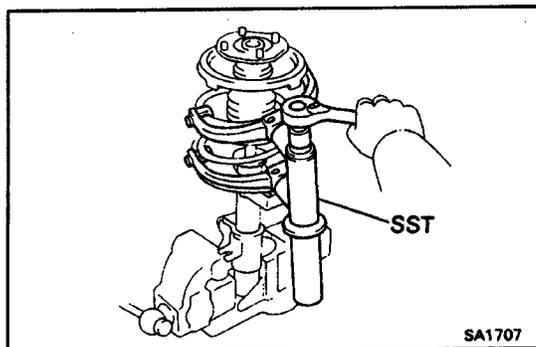
6. REMOVE SHOCK ABSORBER FROM BODY

- (a) Remove the four nuts holding the top of the suspension support.
- (b) Remove the shock absorber from the body.



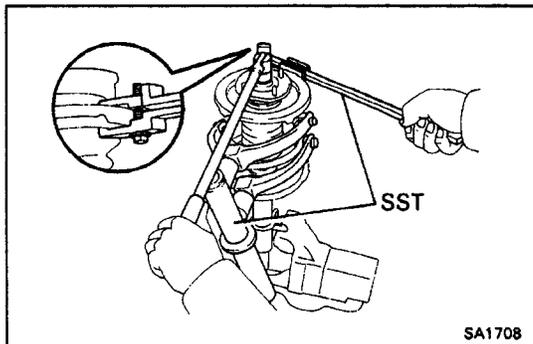
7. CLAMP SHOCK ABSORBER IN VISE

Install a bolt and two nuts to the bracket at the lower portion of the shock absorber shell and secure it in a vise.

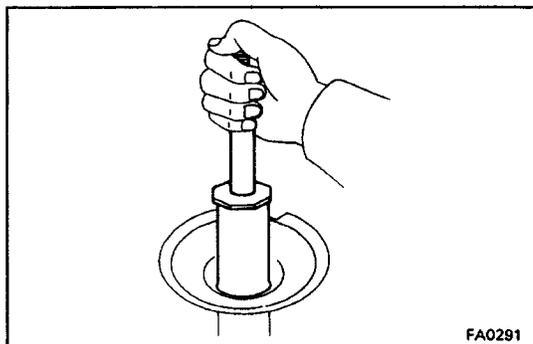


8. REMOVE COIL SPRING

- (a) Using SST, compress the coil spring.
SST 09727-00045, 09727-30020



- (b) Remove the dust cover.
- (c) Using SST, hold the spring seat so that it will not turn, and remove the nut.
SST 09729-22031
- (d) Remove the suspension support, dust seal, spring seat, spring, insulators and bumper.



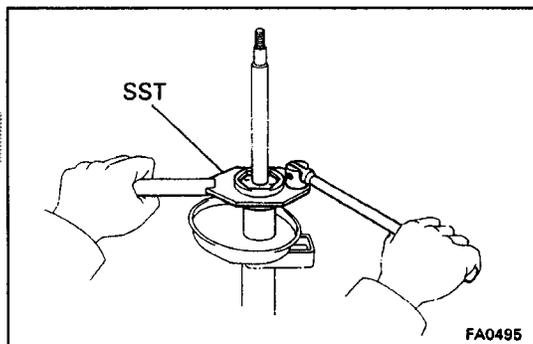
FRONT SHOCK ABSORBER ASSEMBLY INSPECTION

INSPECT OPERATION OF SHOCK ABSORBER

- (a) While pushing rod, check that the pull throughout the stroke is even, and there is no abnormal resistance or noise.
- (b) Push the piston rod in fully and release it. Check that it returns at a constant speed throughout.
If the absorber operation is defective, replace the absorber, as and assembly.

NOTICE: Before discarding the shock absorber, first loosen the ring nut 2 or 3 turns with SST to release the gas completely.

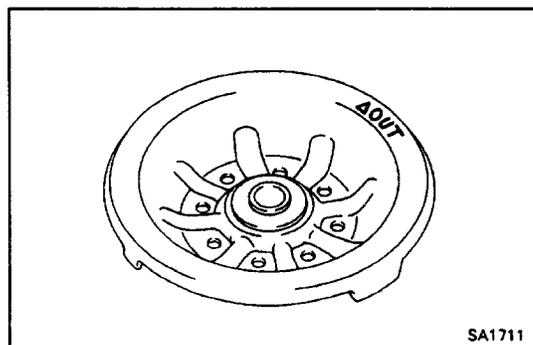
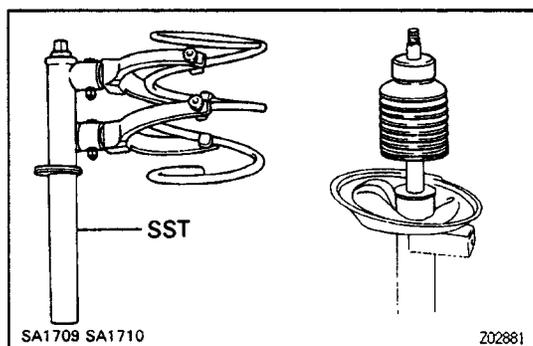
SST 09720-00012

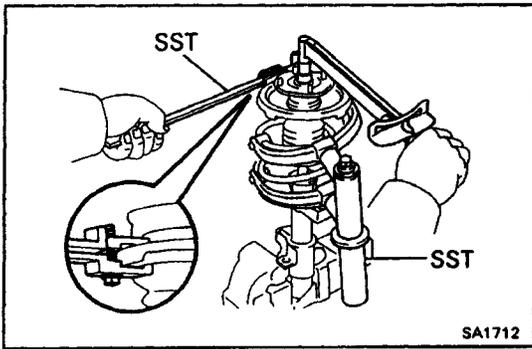


FRONT SHOCK ABSORBER ASSEMBLY INSTALLATION

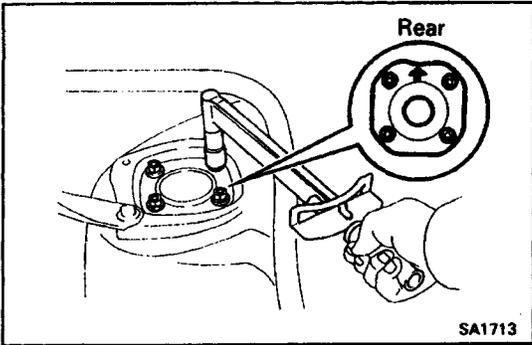
1. INSTALL BUMPER COIL SPRING, SPRING SEAT AND DUST SEAL

- (a) Using SST, compress the coil spring.
SST 09727-00045, 09727-30020
- (b) Install the bumper to the piston rod.
- (c) Align the coil spring end with the lower seat hollow and install.
- (d) Face the "OUT" mark of the spring seat toward the outside of the vehicle, and install it.
- (e) Install the dust seal on the spring seat.
- (f) Install the suspension support.





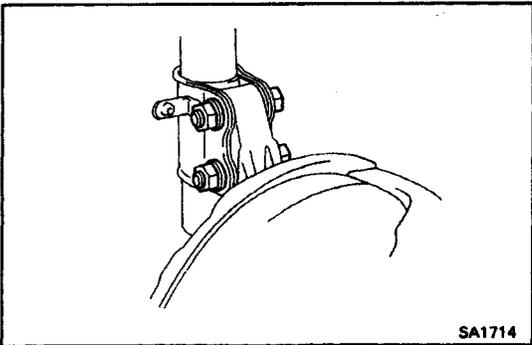
- (g) Using SST, install and torque a new suspension support nut.
 SST 09729-22031
Torque: 49 N-m (500 kgf-cm, 36 ft-lbf)
- (h) Install the dust cover.



2. INSTALL SHOCK ABSORBER ASSEMBLY TO BODY

- Install the four bolts holding the shock absorber to the body. Torque the nuts.
 HINT: install the shock absorber with the hollow part to the rearward.

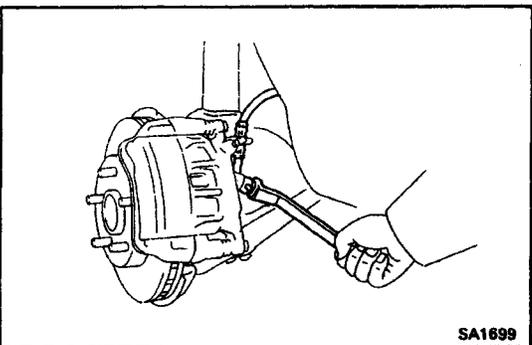
Torque: 39 N-m (400 kgf-cm, 29 ft-lbf)



3. CONNECT SHOCK ABSORBER TO STEERING KNUCKLE

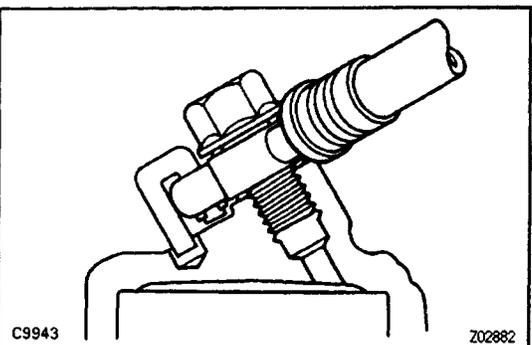
- (a) Connect the steering knuckle to the shock absorber.
 (b) Install the washers and bolts from the rear side.
 (c) Install the two washers and nuts.

Torque: 173 N-m (1,760 kgf-cm, 127 ft-lbf)



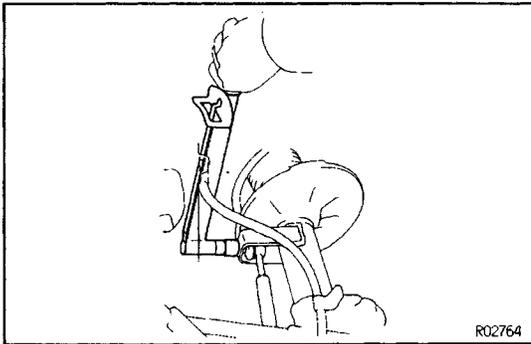
4. CONNECT BRAKE HOSE

- (a) Run the brake hose through the brake hose bracket.



- (b) Connect the brake hose through the disc brake caliper with the union and new gaskets.

Torque: 30 N-m (310 kgf-cm, 22 ft-lbf)

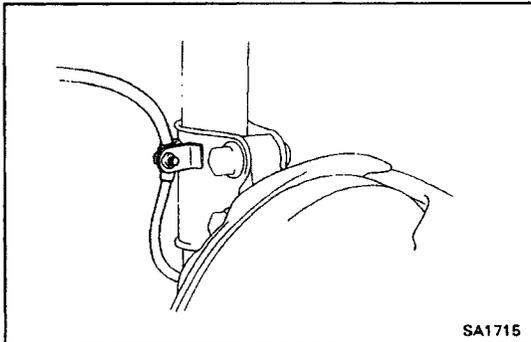


5. CONNECT STABILIZER LINK

Connect the stabilizer link to the shock absorber with the washer and nut.

HINT: If the ball joint stud turns together with the nut, use a hexagon wrench 5 mm (0.197 in.) to hold stud.

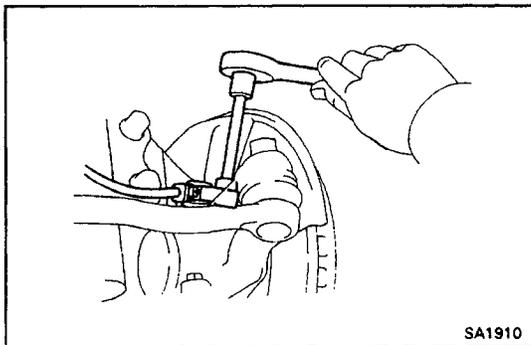
Torque: 64 N-m (650 kgf-cm, 47 ft-lbf)



6. (w/ ABS)

INSTALL WIRE HARNESS CLAMP AND SPEED SENSOR

(a) Install the speed sensor wire harness clamp to the shock absorber with the bolt.



(b) Install the speed sensor to the axle carrier with the bolt.

Torque: 7.8 N-m (80 kgf-cm, 69 ft-lbf)

7. BLEED BRAKE SYSTEM

(See page [BR-9](#))

8. INSTALL FRONT WHEEL AND LOWER VEHICLE

9. CHECK FRONT WHEEL ALIGNMENT

(See page [SA-3](#))