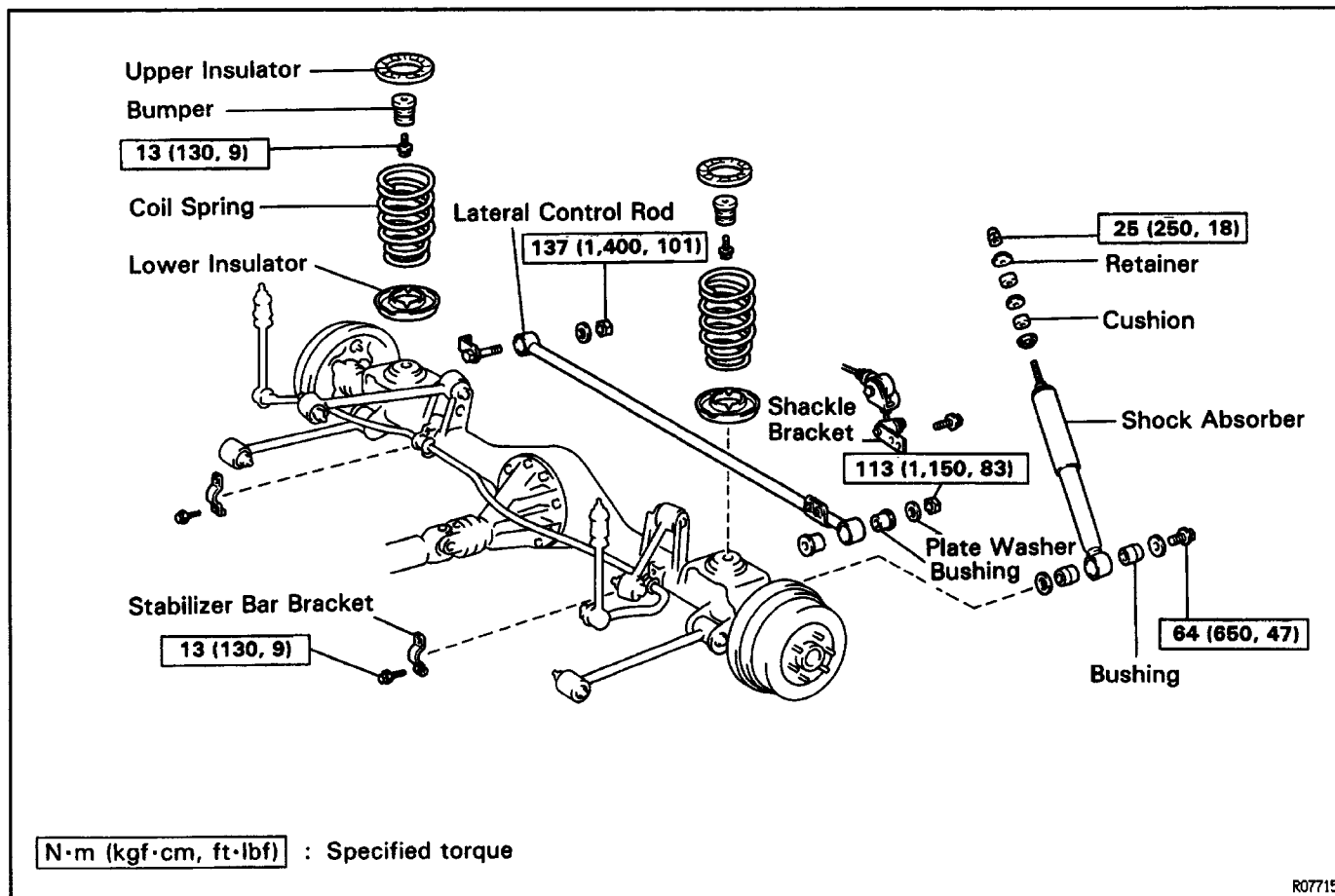
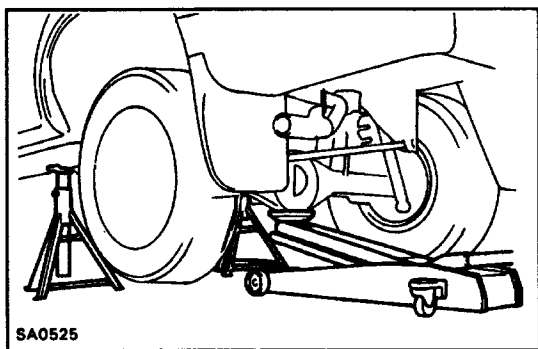


# COIL SPRING AND SHOCK ABSORBER COMPONENTS



R07715

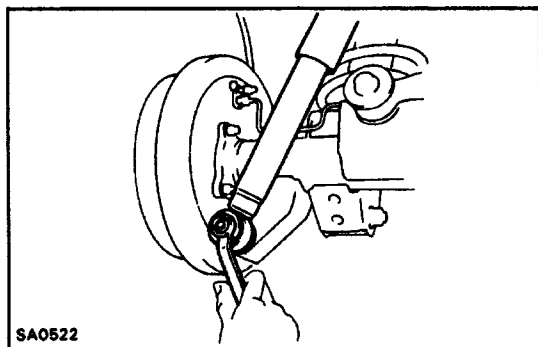


## COIL SPRING AND REAR SHOCK ABSORBER REMOVAL

### 1. JACK UP AND SUPPORT VEHICLE

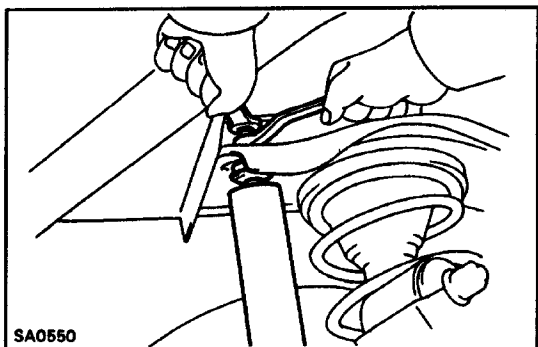
Jack up the rear axle housing and support the frame with stands. Hold the rear axle housing with a jack.

### 2. REMOVE WHEEL

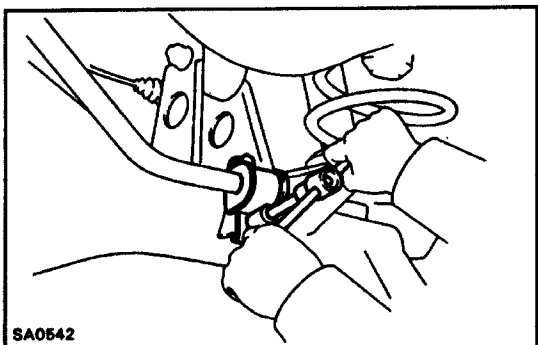


### 3. DISCONNECT REAR SHOCK ABSORBER

- (a) Remove the bolt, washers and bushings, holding the shock absorber to the rear axis housing and disconnect the shock absorber.

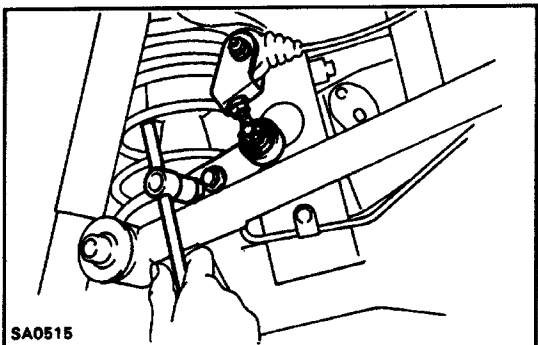


- (b) If replacing the shock absorber, remove the nut, retainers and cushions, holding the shock absorber to the frame, and remove the shock absorber.



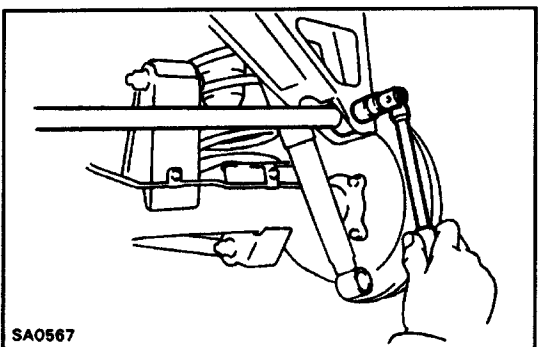
#### 4. DISCONNECT STABILIZER BAR BRACKETS

Remove the bolts holding the stabilizer bar bracket to the rear axle housing.

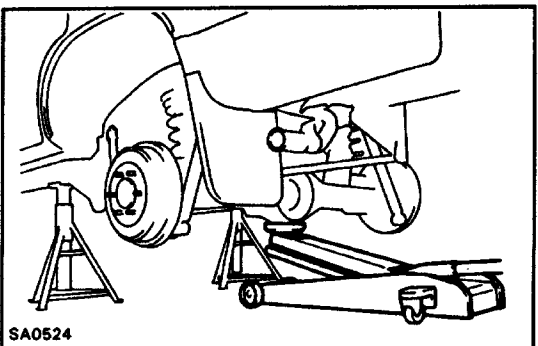


#### 5. DISCONNECT LATERAL CONTROL ROD FROM FRAME

- (a) Remove the bolt holding the RH shock absorber to the rear axle housing and disconnect the shock absorber.  
 (b) Remove the 2 bolts and disconnect the shackle bracket from the lateral control rod.

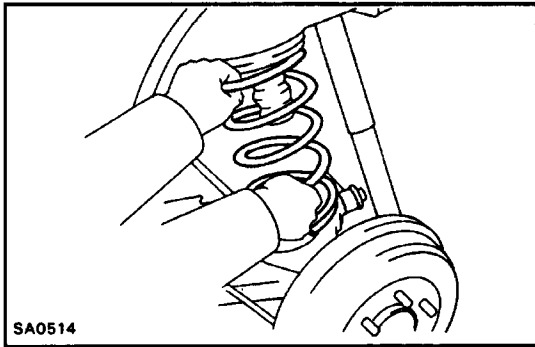


- (c) Remove the nut, washer and bolt from the frame and disconnect the lateral control rod.

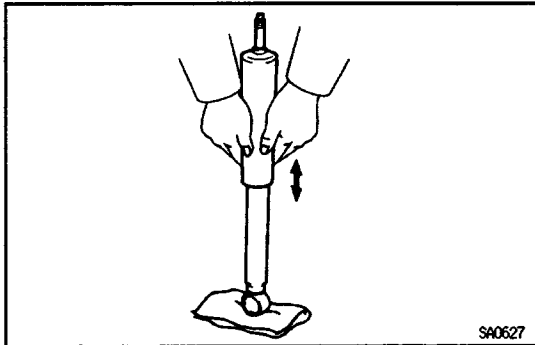


#### 6. REMOVE COIL SPRING

- (a) Lower the rear axle housing.  
 HINT: Be careful not to snag the brake line and parking brake cable.



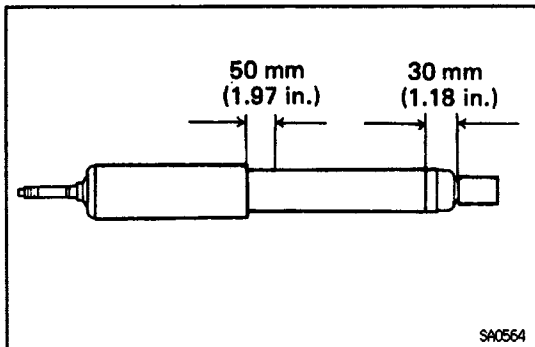
- (b) While lowering the rear axle housing, remove the coil spring and upper and lower insulators.



## REAR SHOCK ABSORBER INSPECTION

### 1. INSPECT OPERATION OF SHOCK ABSORBER

- (a) While pushing the shock absorber, check that the pull throughout the stroke is even, and there is no abnormal resistance or noise.
- (b) Gas Filled Type:  
Fully push the shock absorber in fully and release it. Check that it returns at a constant speed throughout.



HINT: If the shock absorber is the gas filled type, this information will be engraved on the exterior of the outer shell.

### 2. GAS FILLED TYPE:

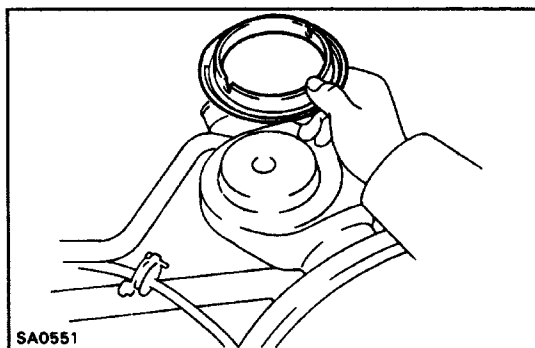
#### DISCARD SHOCK ABSORBER

Before discarding the shock absorber, drill a hole 2 – 3 mm (0.079 – 0.118 in.) in diameter at the location shown in the illustration to release the gas inside.

#### NOTICE:

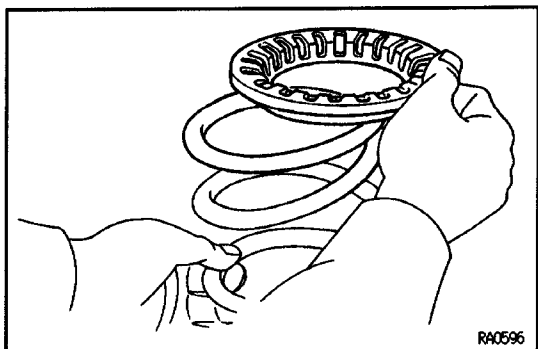
When drilling, chips may fly out; work carefully.

The gas is colorless, odorless, and non –poisonous.

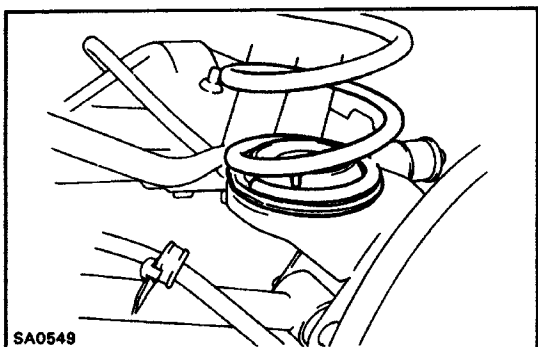


## COIL SPRING AND REAR SHOCK ABSORBER INSTALLATION

### 1. PUT LOWER INSULATOR ON AXLE HOUSING



## 2. PUT UPPER INSULATOR ON COIL SPRING



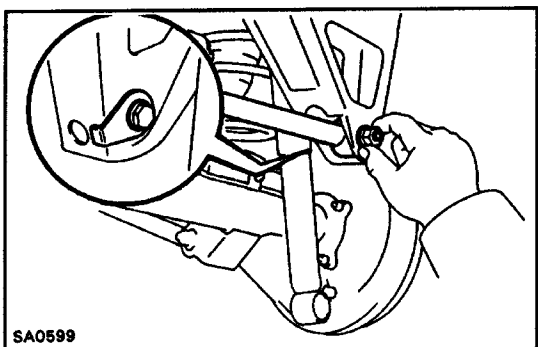
## 3. INSTALL COIL SPRING

## 4. JACK UP REAR AXLE HOUSING

## 5. CHECK POSITION OF LOWER INSULATOR

Check that the lower insulator is installed correctly.

If the insulator is not in the correct position, reinstall the coil spring.



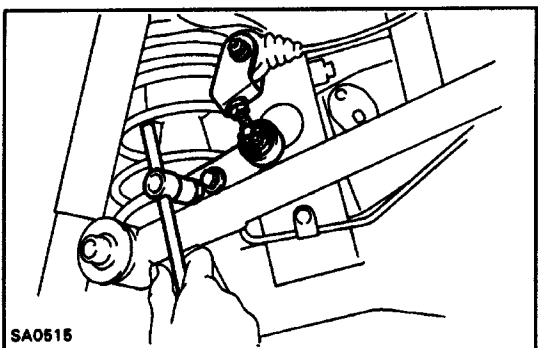
## 6. CONNECT LATERAL CONTROL ROD

- (a) Connect the lateral control rod to the frame with the bolt, washer and nut.

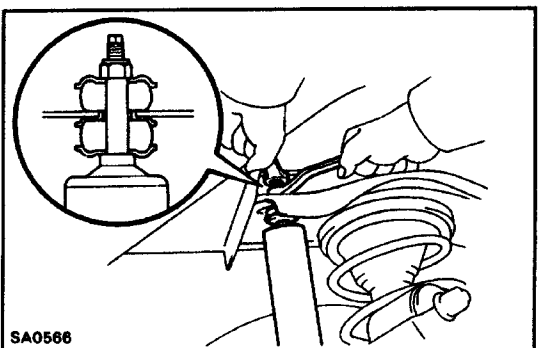
### HINT:

Install the bolt from the front of the vehicle (shock absorber side).

Do not tighten the nut.



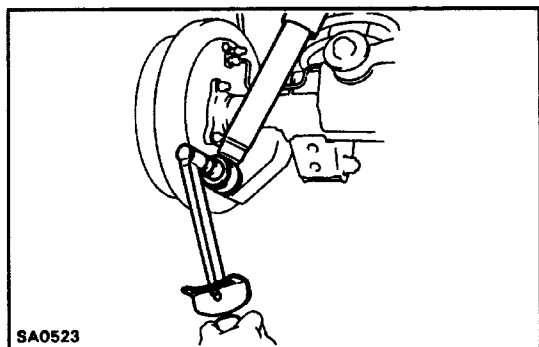
- (b) Connect the shackle bracket to the lateral control rod with the 2 bolts.



## 7. INSTALL SHOCK ABSORBER

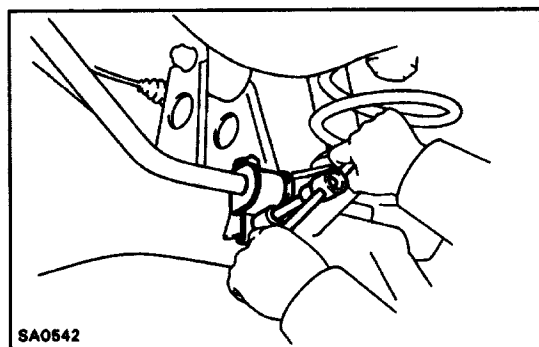
- (a) Connect the shock absorber to the frame with the retainers, cushions and nut. Torque the nut.

**Torque: 25 N·m (250 kgf·cm. 18 ft·lbf)**



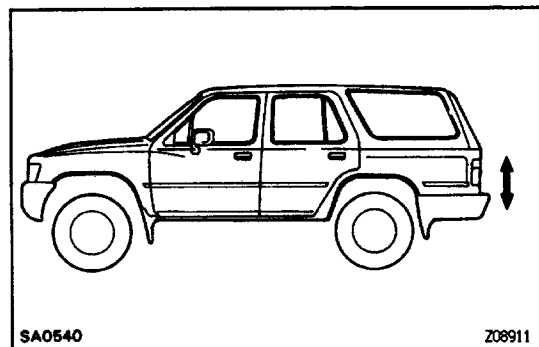
- (b) Connect the shock absorber to the rear axle housing with the bushings, washers and bolt. Torque the bolt.

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



#### **8. INSTALL STABILIZER BAR BRACKETS TO REAR AXLE HOUSING**

**Torque: 13 N-m (130 kgf-cm, 9 ft-lbf)**

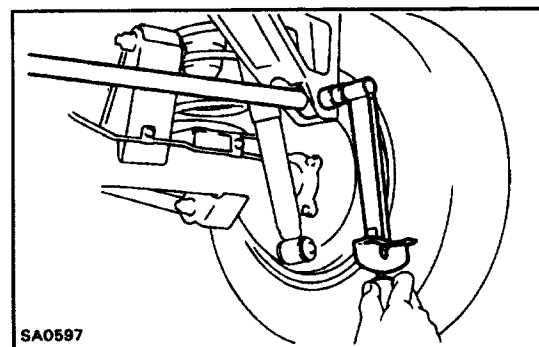


#### **9. INSTALL WHEEL AND LOWER VEHICLE**

**Torque: 103 N-m (1,050 kgf-cm, 76 ft-lbf)**

#### **10. STABILIZE SUSPENSION**

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



#### **11. TIGHTEN LATERAL CONTROL ROD NUT**

- (a) Jack up the rear axle housing and support it with stands.

- (b) Torque the lateral control rod nut.

**Torque: 137 N-m (1,400 kgf/cm, 101 ft-lbf)**