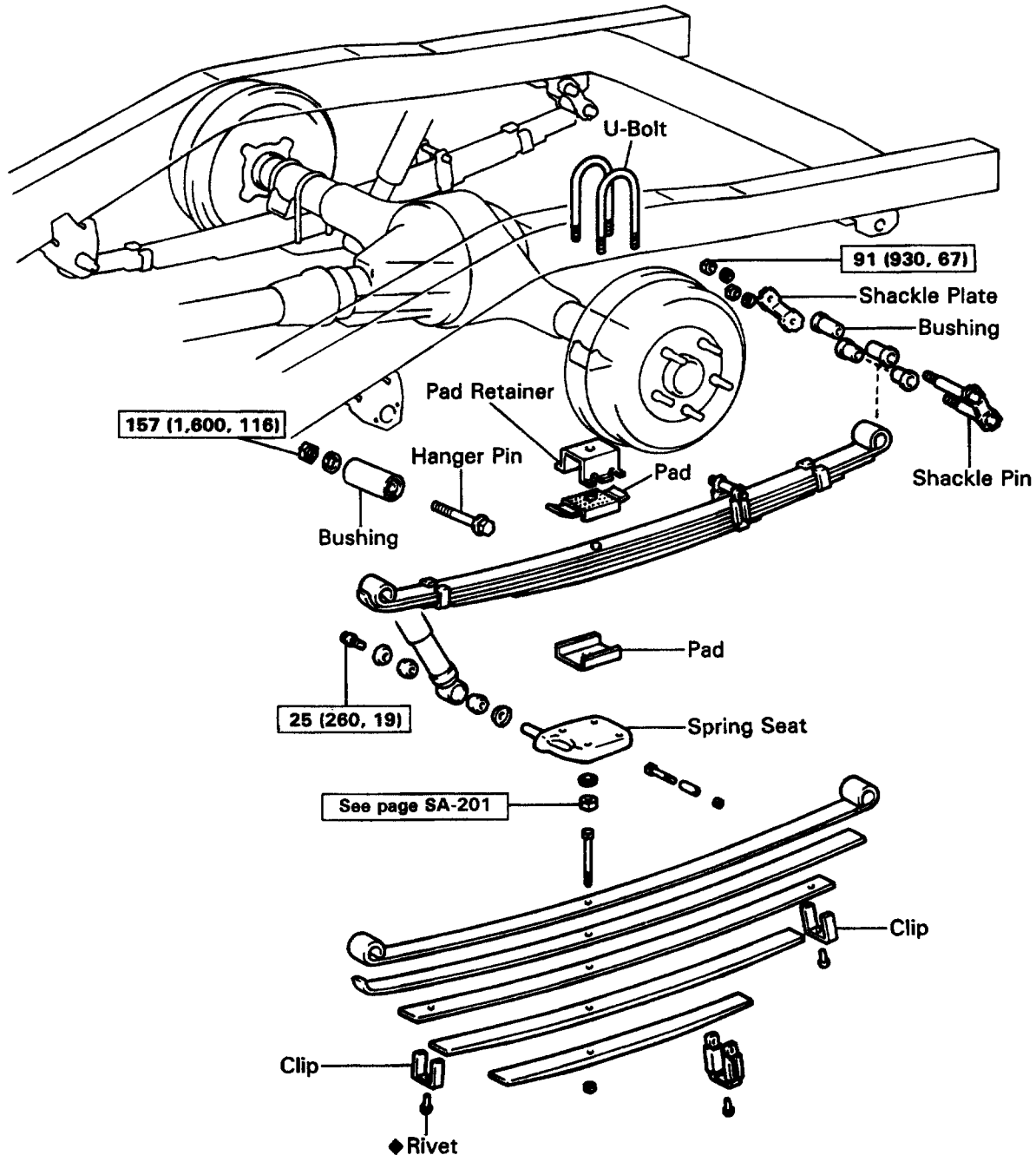


# REAR LEAF SPRING COMPONENTS

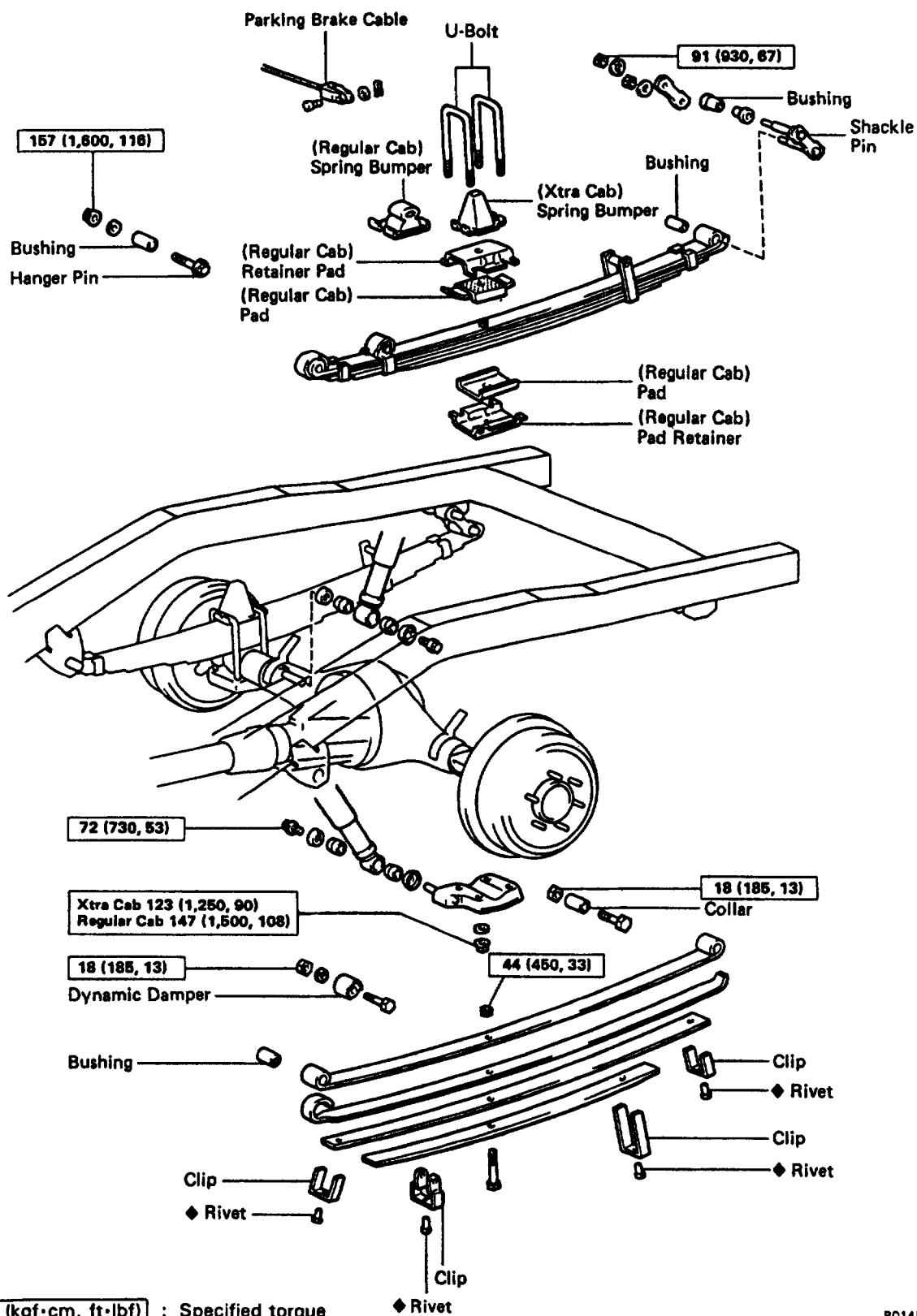


**N·m (kgf·cm, ft·lbf)** : Specified torque

♦ Non-reusable part

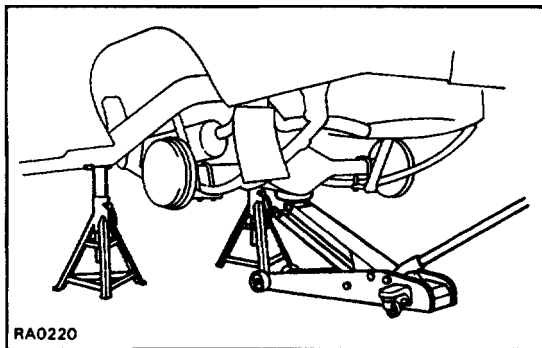
## COMPONENTS

4WD



RD1455

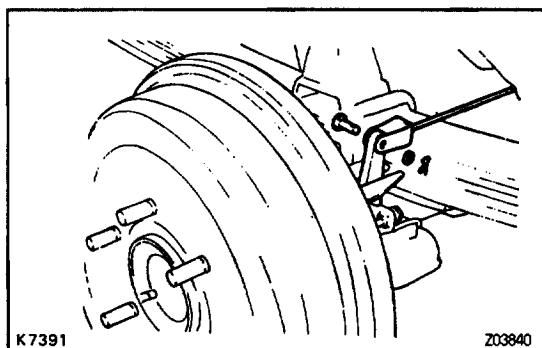
Z10763



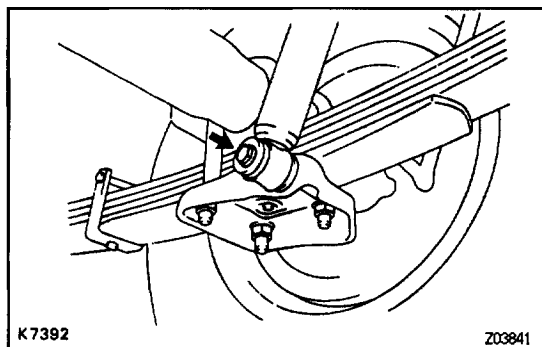
## LEAF SPRING REMOVAL

### 1. JACK UP VEHICLE AND REMOVE REAR WHEELS

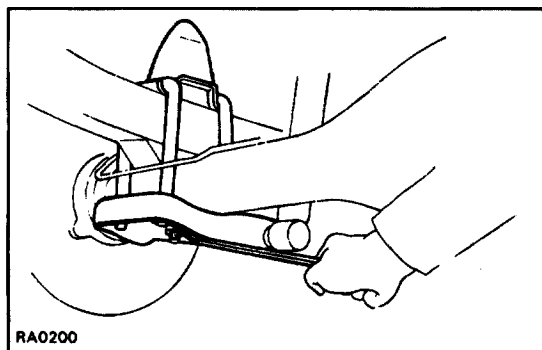
- (a) Jack up and support the body on the stands.
- (b) Lower the axle housing until the leaf spring tension is free, and keep it at this position.



### 2. 4WD: DISCONNECT PARKING CABLE

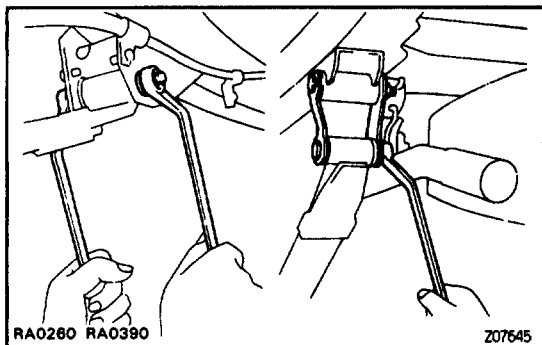


### 3. DISCONNECT SHOCK ABSORBER FROM SPRING SEAT



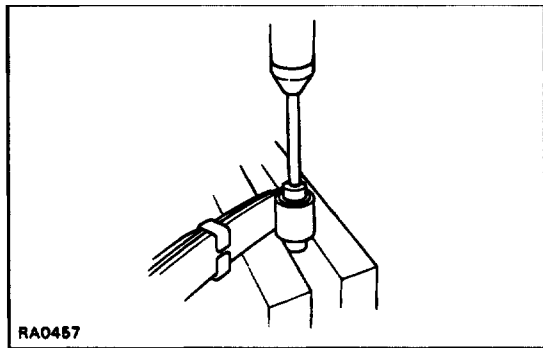
### 4. REMOVE U-BOLTS

- (a) Remove the U-bolt mounting nuts.
- (b) Remove the spring seat, pads and pad retainer.
- (c) Remove the U-bolts.
- (d) 4WD:  
Remove the spring bumper.



### 5. REMOVE REAR LEAF SPRING

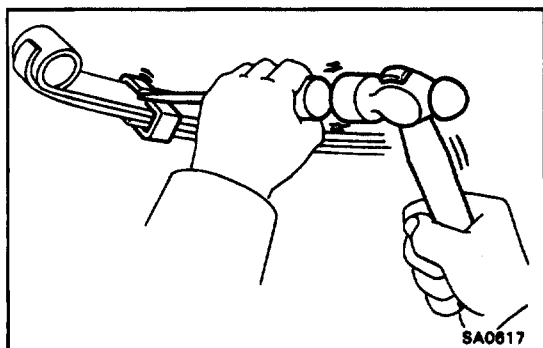
- (a) Remove the hanger pin bolt.
- (b) Disconnect the leaf from the bracket.
- (c) Remove the shackle pin mounting nuts.
- (d) Remove the shackle pin and plate and remove the leaf spring.



## BUSHING REPLACEMENT

### REPLACE BUSHING WITH PRESS

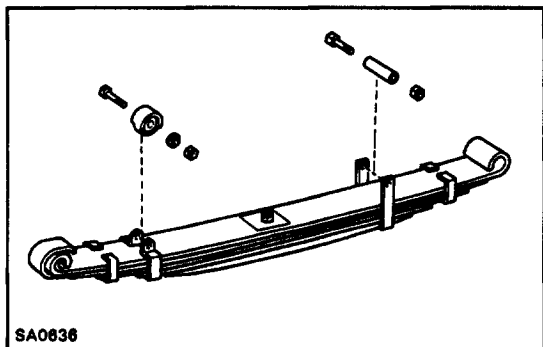
Using a press and socket wrench, replace the eye bushings.



## LEAF SPRING REPLACEMENT

### 1. BEND OPEN SPRING CLIP

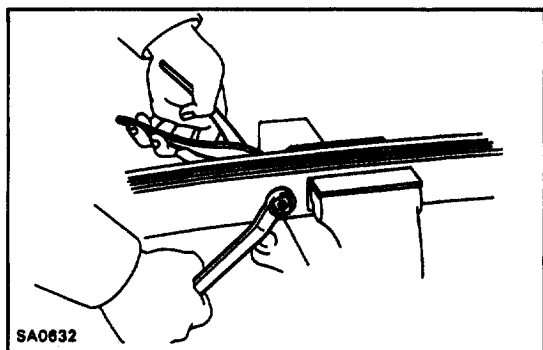
Using a chisel and a hammer, pry up the spring clip.



### 2. REMOVE CLIP BOLT

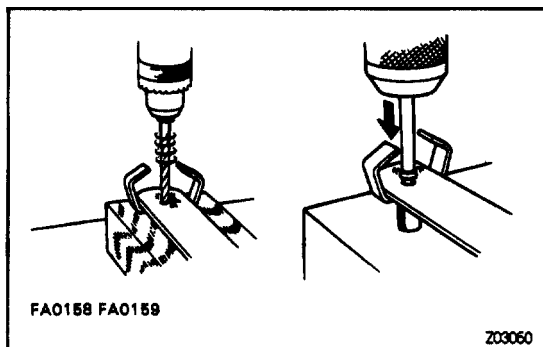
Remove the clip bolt, collar and nut from the clip.

### 3. REMOVE DYNAMIC DAMPER



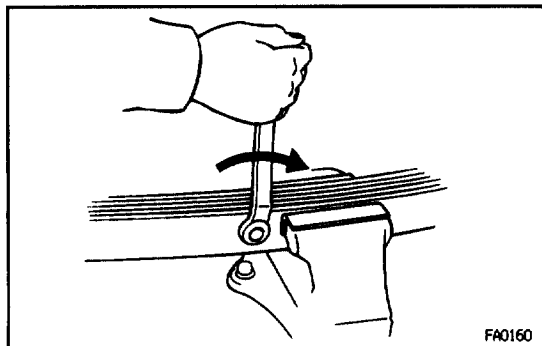
### 4. REMOVE CENTER BOLT

Hold the spring near the center bolt in a vise and remove the center bolt.



### 5. IF NECESSARY, REPLACE SPRING CLIP

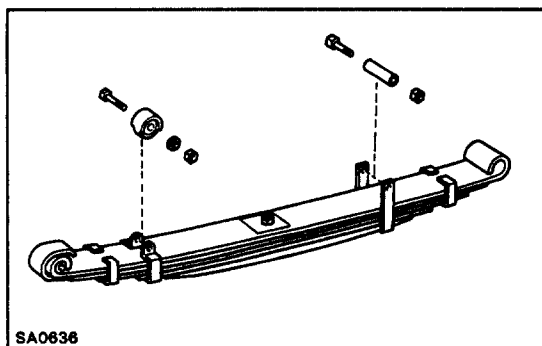
- Drill off the head of the rivet, and drive it out.
- Install a new rivet into the holes of the spring leaf and clip. Then rivet with a press.



## 6. INSTALL SPRING CENTER BOLT

- (a) Align the leaf holes and secure the leaves with a vise.
- (b) Install and tighten spring center bolt.

**Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)**



## 7. INSTALL CLIP BOLT

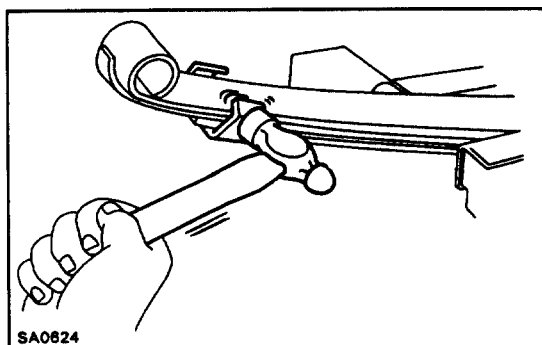
Position the collar and install the clip bolt and nut.

**Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)**

## 8. INSTALL DYNAMIC DAMPER

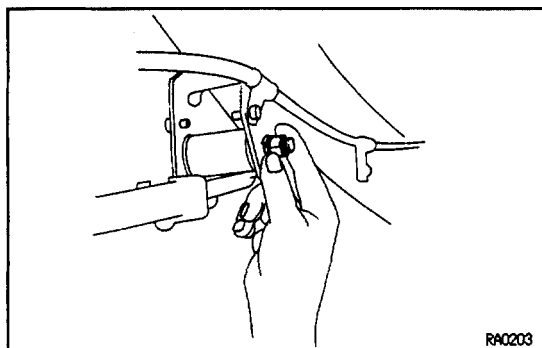
Position the dynamic damper and install the bolt and nut.

**Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)**



## 9. BEND SPRING CLIP

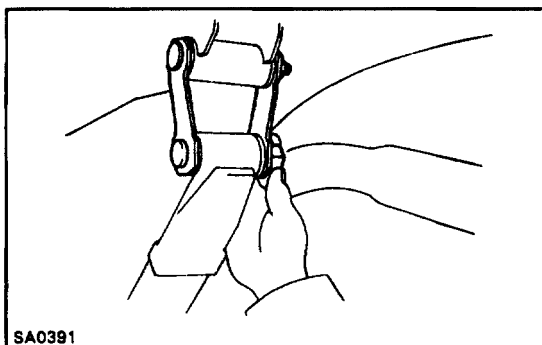
Using a hammer, bend the spring clip into position.



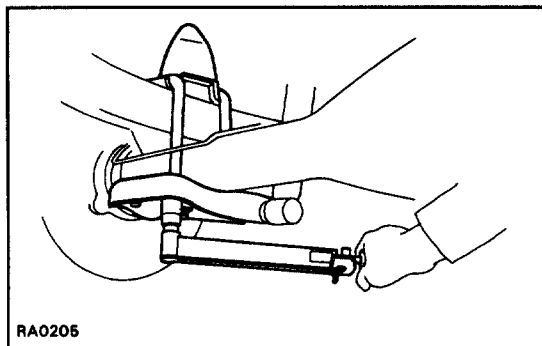
# LEAF SPRING INSTALLATION

## 1. INSTALL LEAF SPRING

- (a) Place the front end of leaf spring in the front bracket and install the hanger pin bolt.
- (b) Finger tighten the hanger pin nut.



- (c) Place the rear end of leaf spring in the rear bracket, and install the shackle pin.
- (d) Install the plate and finger tighten the 2 nuts.



## 2. INSTALL U-BOLTS

- (a) Install the pads and pad retainer on the leaf spring.
- (b) 4WD:  
Install the spring bumper.
- (c) Install the spring seat, U-bolts, washers and nuts.
- (d) Tighten the U-bolt mounting nut.

### Torque:

#### 2WD

147 N·m (1,500 kgf·cm, 108 ft·lbf)

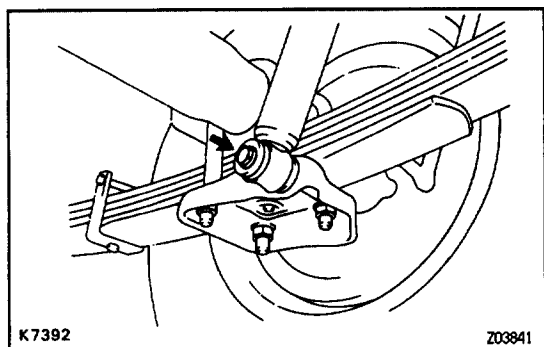
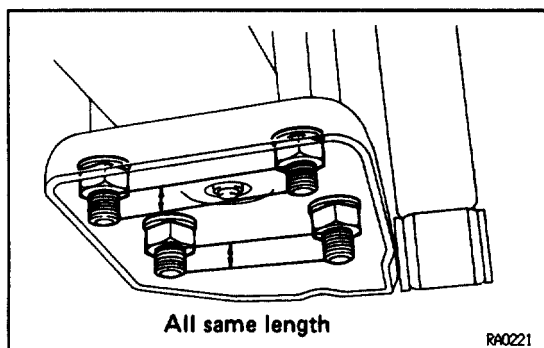
#### 4WD / Xtra cab:

123 N·m (1,250 kgf·cm, 90 ft·lbf)

#### 4WD / Regular cab:

147 N·m (1,500 kgf·cm, 108 ft·lbf)

HINT: Tighten the U-bolts so that the length of all the U-bolts under the spring seat are the same.



## 3. INSTALL REAR SHOCK ABSORBER

- (a) Connect the shock absorber to the frame with the bolt.  
Tighten the bolt.

### Torque:

2WD 25 N·m (260 kgf·cm, 19 ft·lbf)

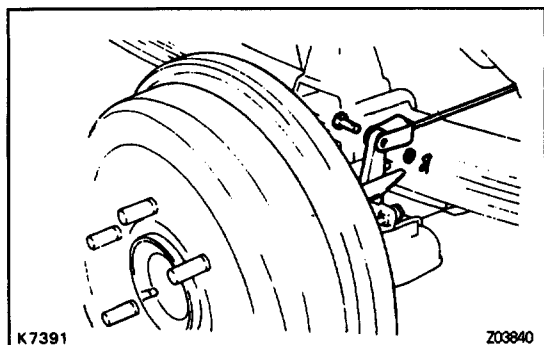
4WD 72 N·m (730 kgf·cm, 53 ft·lbf)

- (c) Connect the shock absorber to the spring seat with the bolt.

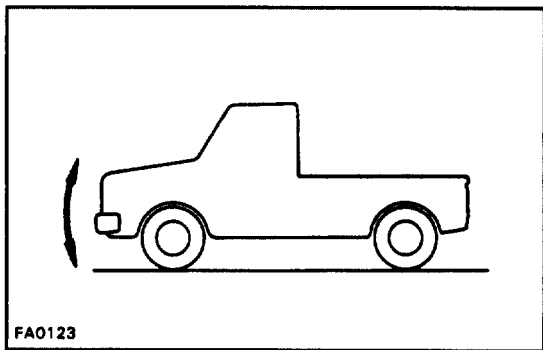
### Torque:

2WD 25 N·m (260 kgf·cm, 19 ft·lbf)

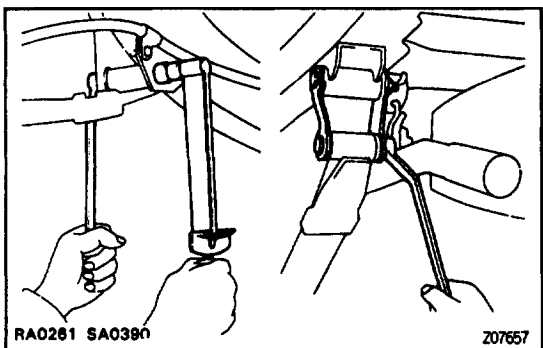
4WD 72 N·m (730 kgf·cm, 53 ft·lbf)



## 4. 4WD: CONNECT PARKING BRAKE CABLE

**5. STABLIZE SUSPENSION**

- (a) Install the wheel and lower the vehicle.
- (b) Remove the stands and bounce the vehicle up and down to stabilize the suspension.

**6. TIGHTEN HANGER PIN AND SHACKLE PIN**

- (a) Tighten the hanger pin nut.

**Torque:**

**157 N·m (1,600 kgf·cm, 116 ft·lbf)**

- (b) Tighten the shackle nuts.

**Torque: 91 N·m (930 kgf·cm, 67 ft·lbf)**