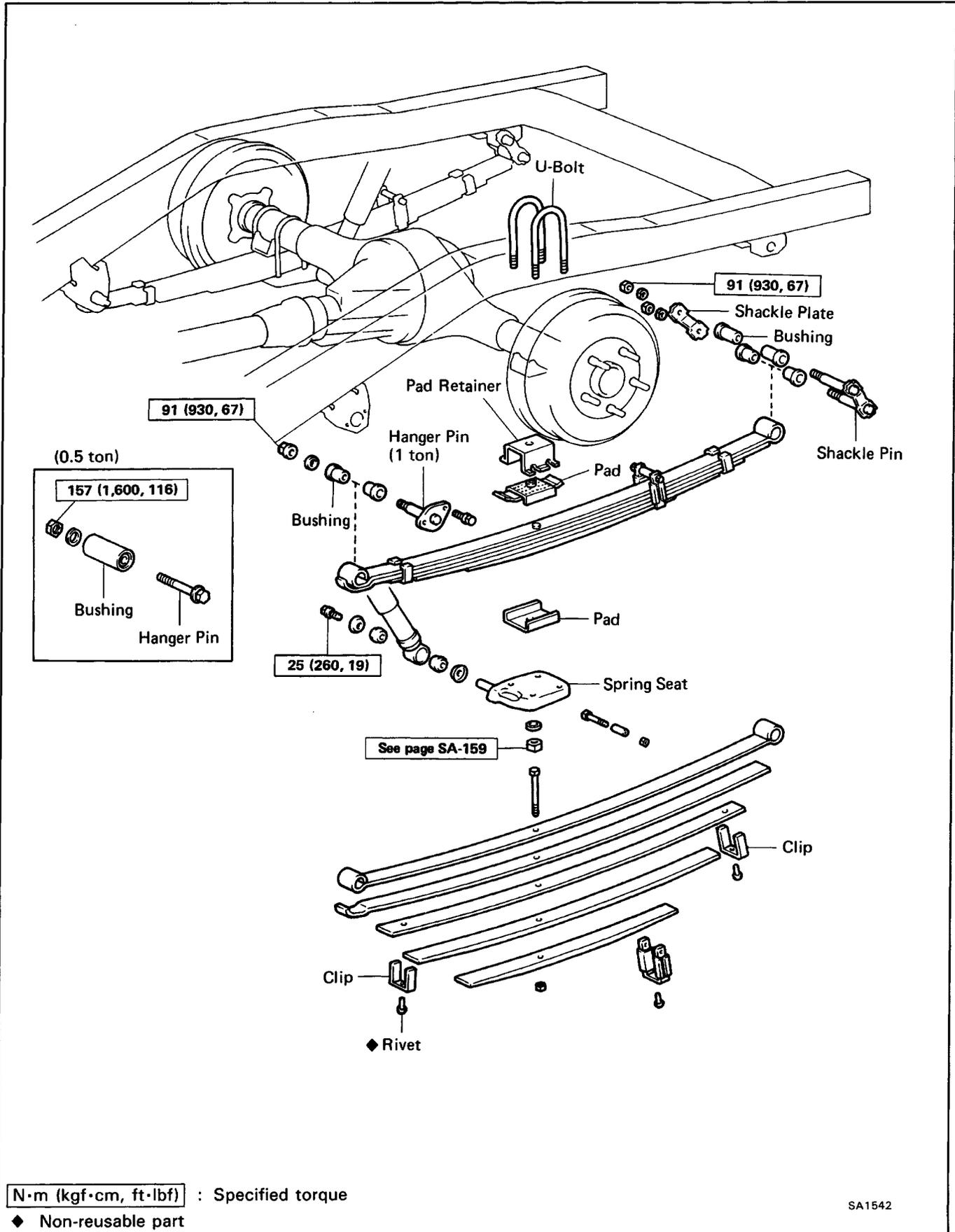
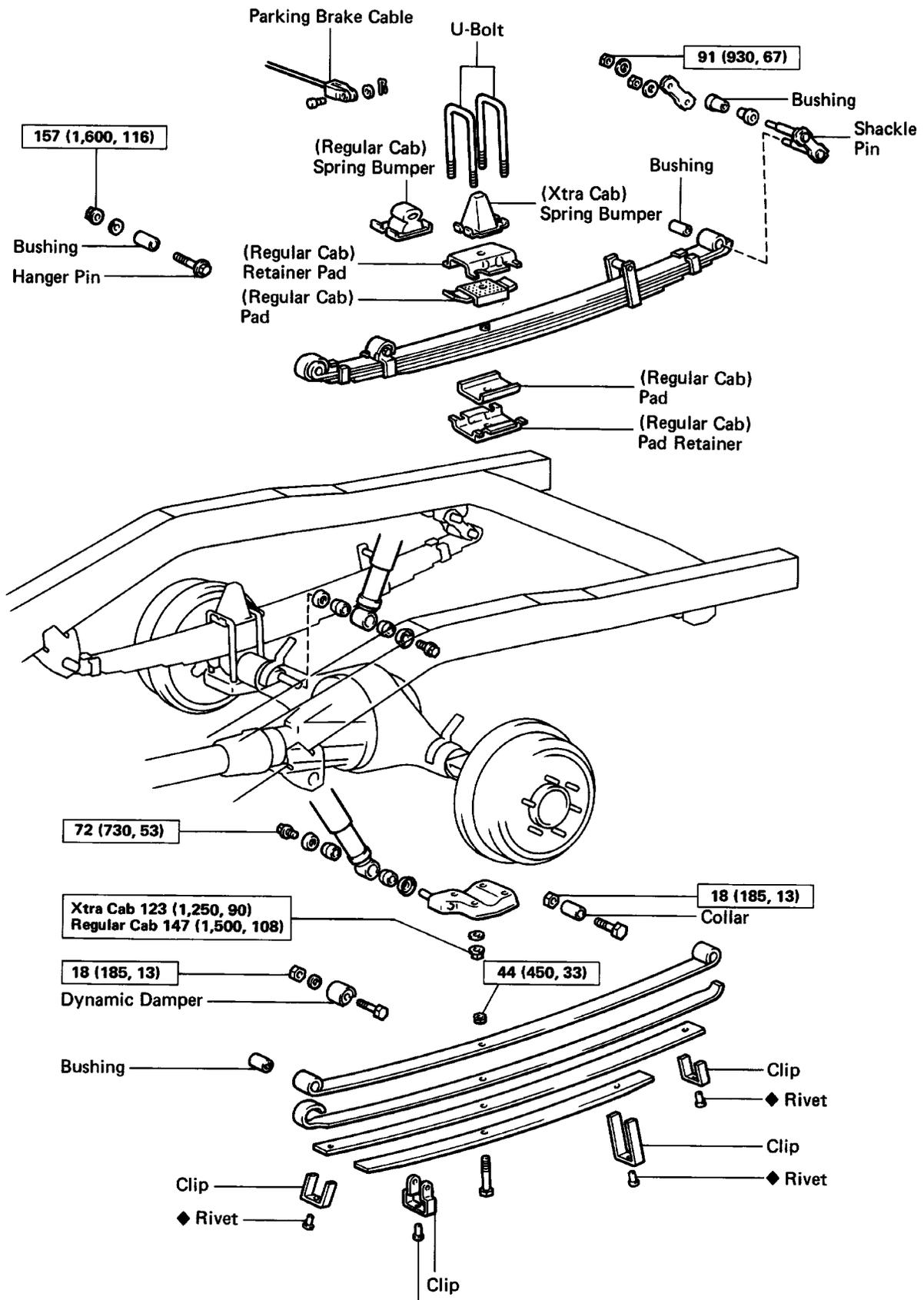


# Leaf Spring COMPONENTS

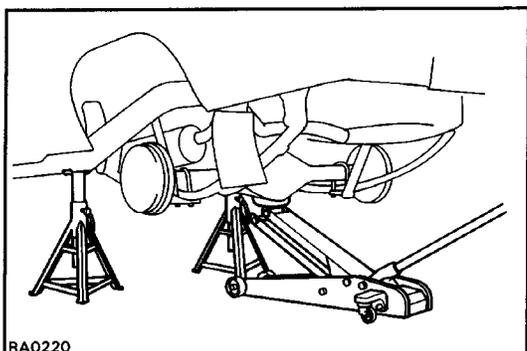


# COMPONENTS



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

◆ Non-reusable part

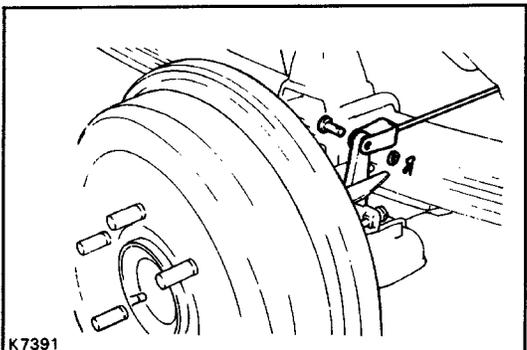


RA0220

## REMOVAL OF LEAF SPRING

### 1. JACK UP AND SUPPORT BODY

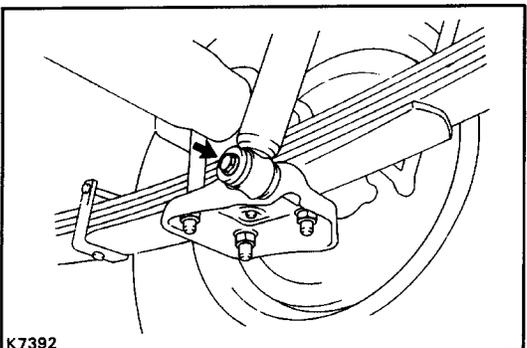
- (a) Jack up and support the body on the stands.
- (b) Lower the axle housing until the leaf spring tension is free, and keep it at this position.



K7391

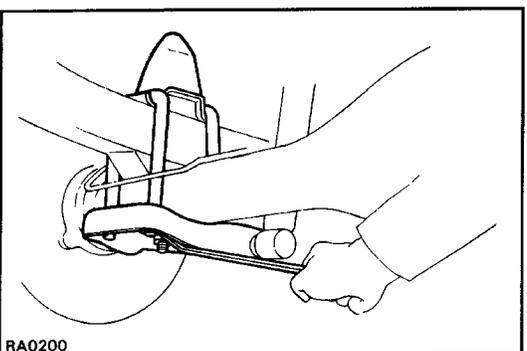
### 2. (4WD)

#### DISCONNECT PARKING CABLE



K7392

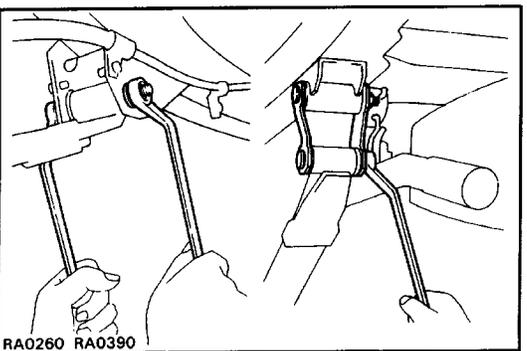
### 3. DISCONNECT SHOCK ABSORBER FROM SPRING SEAT



RA0200

### 4. REMOVE U-BOLTS

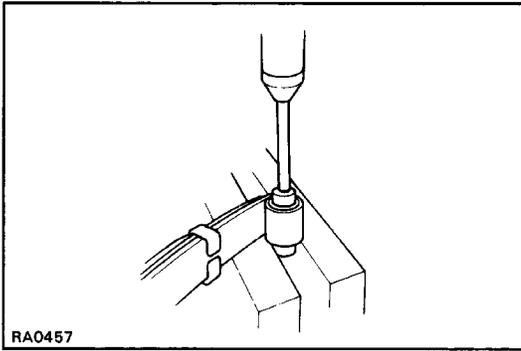
- (a) Remove the U-bolt mounting nuts.
- (b) Remove the spring seat, pads and pad retainer.
- (c) Remove the U-bolts.
- (d) (4WD)  
Remove the spring bumper.



RA0260 RA0390

### 5. REMOVE LEAF SPRING

- (a) Remove the hanger pin bolt.
- (b) (1 ton and C&C )  
Remove the hanger pin lock bolt.
- (c) Disconnect the leaf from the bracket.
- (d) Remove the shackle pin mounting nuts.
- (e) Remove the shackle pin and plate and remove the leaf spring.

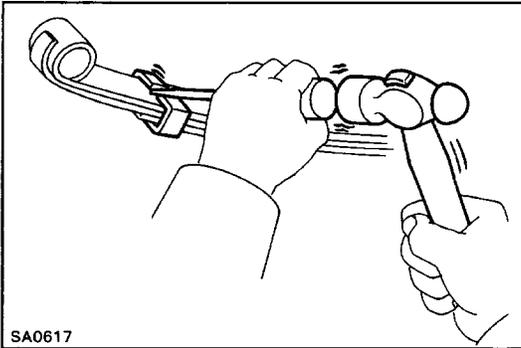


RA0457

## REPLACEMENT OF BUSHING

### REPLACE BUSHINGS WITH PRESS

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

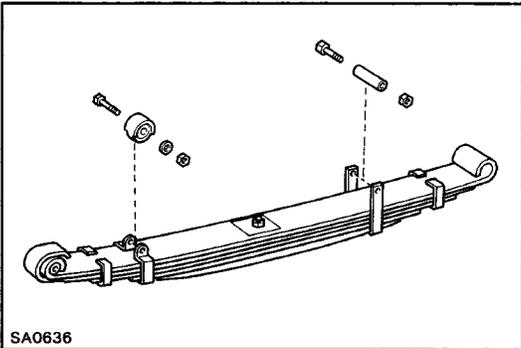


SA0617

## REPLACEMENT OF LEAF SPRING

### 1. BEND OPEN SPRING CLIP

Using a chisel, pry up the spring clip.

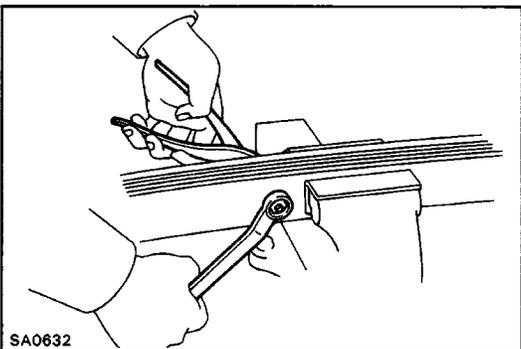


SA0636

### 2. REMOVE CLIP BOLT

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

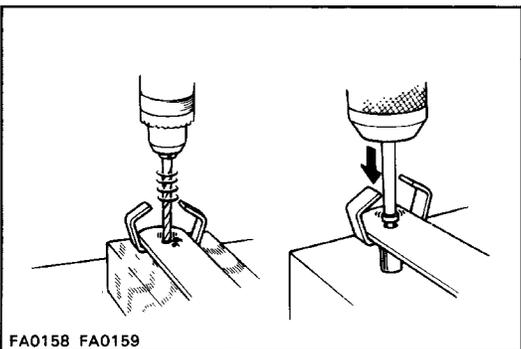
### 3. REMOVE DYNAMIC DAMPER



SA0632

### 4. REMOVE CENTER BOLT

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

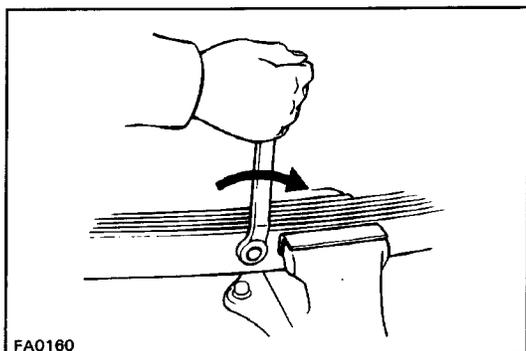


FA0158 FA0159

### 5. IF NECESSARY, REPLACE SPRING CLIP

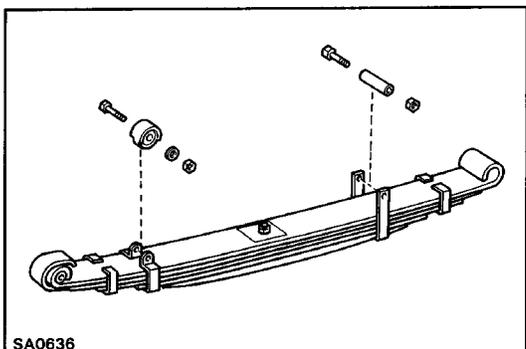
(a) Drill off the head of the rivet, and drive it out.

(b) 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 the spring center bolt.  
Torque: 44 N-m (450 kgf-cm, 33 ft-lbf)

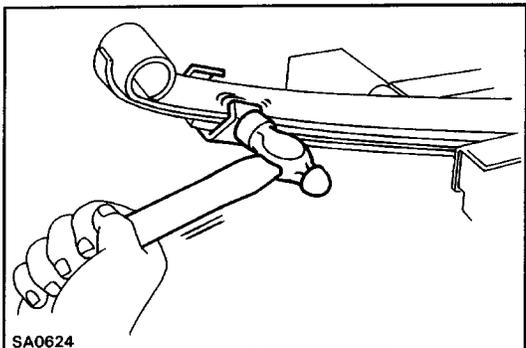


## 7. INSTALL CLIP BOLT

- Position the collar and install the clip bolt and nut.  
Torque: 18 N-m (185 kgf-cm, 13 ft-lbf)

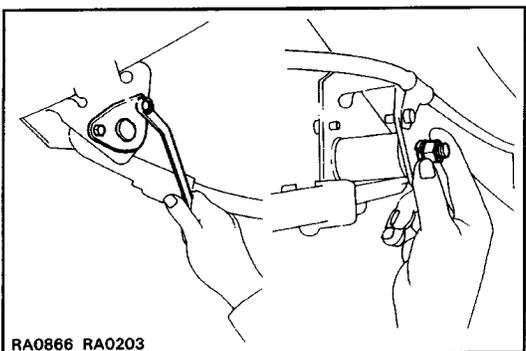
## 8. INSTALL DYNAMIC DAMPER

- Position the dynamic damper and install the bolt and nut.  
Torque: 18 N-m (185 kgf-cm, 13 ft-lbf)



## 9. BEND SPRING CLIP

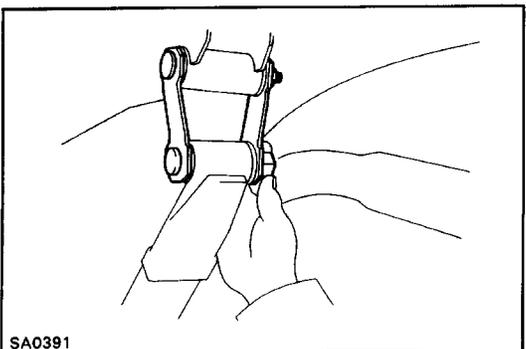
- Using a hammer, bend the spring clip into position.



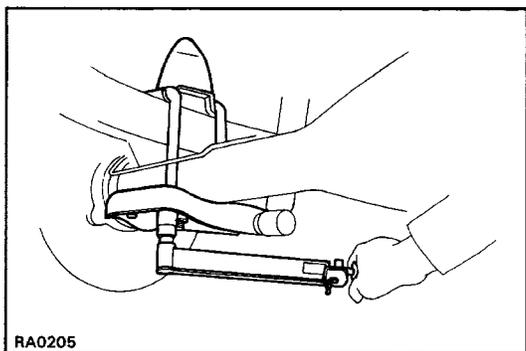
## INSTALLATION OF LEAF SPRING

### 1. INSTALL LEAF SPRING

- (a) Place the front end of leaf spring in the front bracket and install the hanger pin bolt.
- (b) (1 ton and C&C)  
Install and tighten the hanger pin lock bolt.  
Torque: 13 N-m (130 kgf-cm, 9 ft-lbf)
- (c) Finger tighten the hanger pin nut.



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



## 2. INSTALL U-BOLTS

(a) Install the pads and pad retainer on the leaf spring.

(b) (4WD)

Install the spring bumper.

M Install the spring seat, U-bolts, washers and nuts.

(d) Tighten the U-bolt mounting nuts.

**Torque:**

<b>2W D 0.5 ton</b>	<b>147 N-m</b>
	<b>(1,500 kgf-cm, 108 ft-lbf)</b>
<b>1 ton, C&amp;C</b>	<b>123 N-m</b>
	<b>(1,250 kgf-cm, 90 ft-lbf)</b>

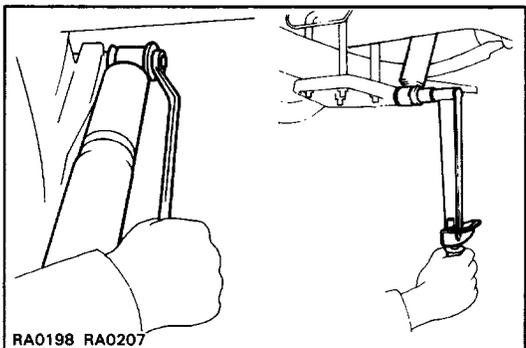
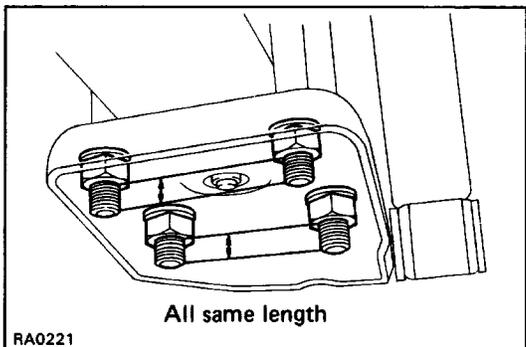
**4WD Xtra cab 123 N-m**

**(1,250 kgf-cm, 90 ft-lbf )**

**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)**

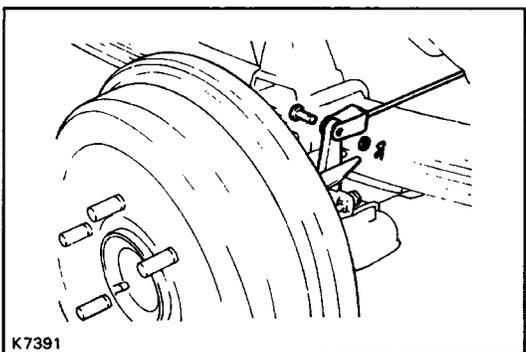
(b) Connect the shock absorber to the spring seat with the bolt. Tighten the bolt.

**Torque: 2WD 25 N-m (260 kgf-cm, 19 ft-lbf)**

**4WD 72 N-m (730 kgf-cm, 53 ft-lbf)**

## 4. (4WD)

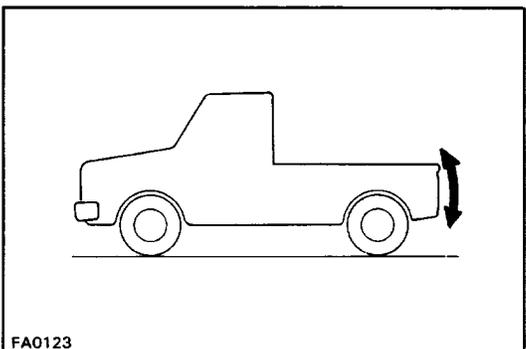
### CONNECT PARKING BRAKE CABLE

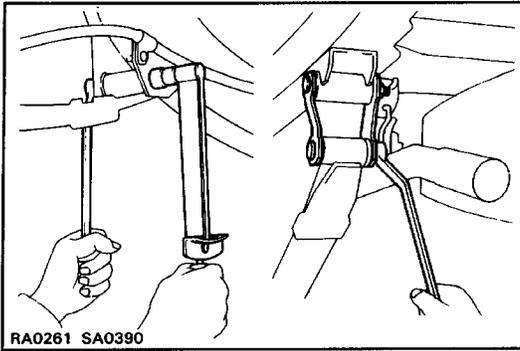


## 5. STABILIZE SUSPENSION

(a) Install the wheel.

(b) Remove the stands and bounce the vehicle up and down to stabilize the suspension.





## 6. TIGHTEN HANGER PIN AND SHACKLE PIN

Tighten the hanger pin nut.

**Torque: 0.5 ton**

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

**1 ton and C&C**

**91 N-m (930 kgf -cm, 67 ft-lbf)**

Tighten the shackle nuts.

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