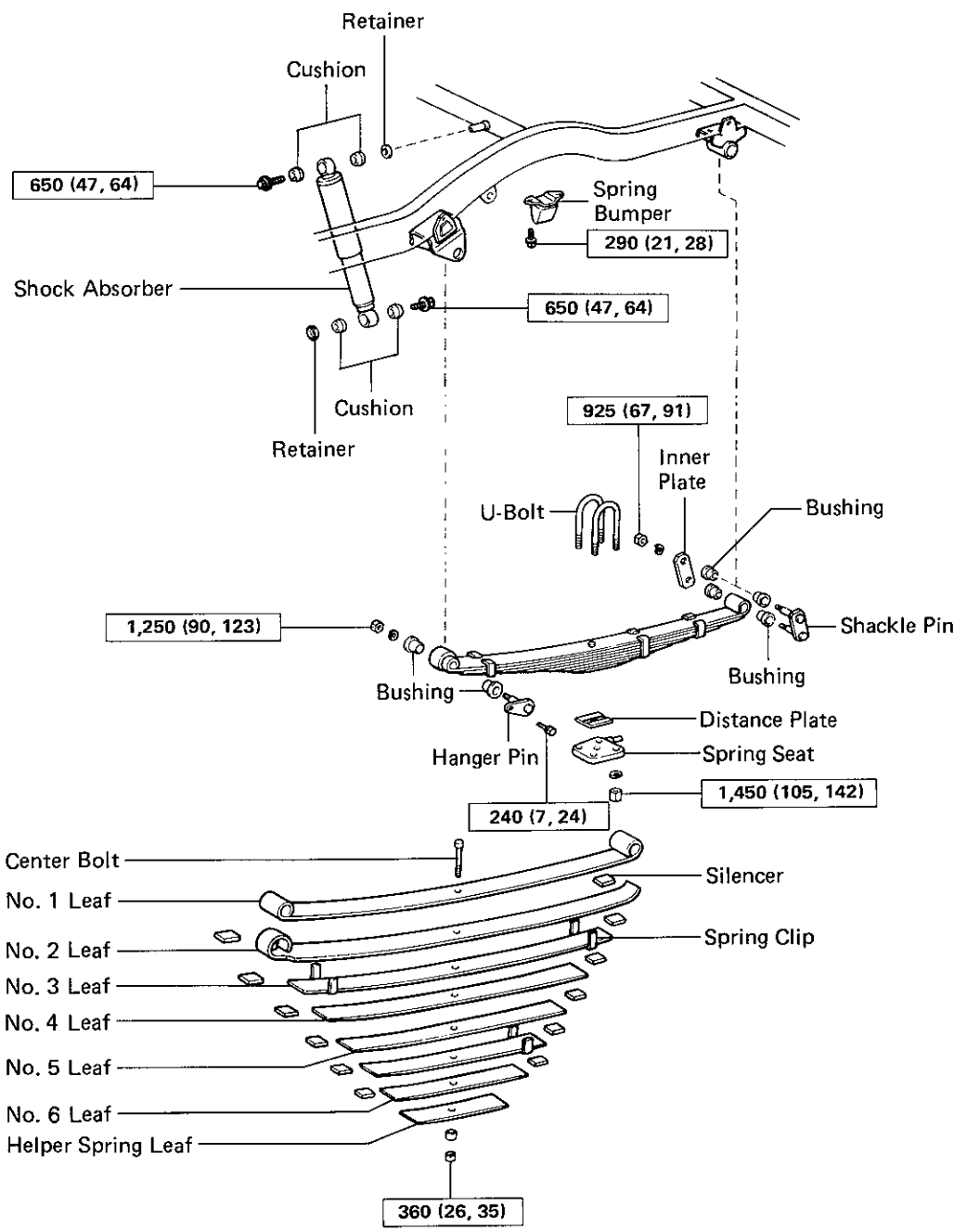
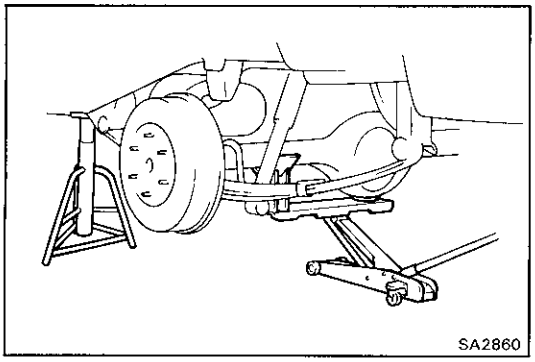
LEAF SPRING TYPE REAR SUSPENSION

COMPONENTS



kg-cm (ft-lb, N·m) : Specified torque

SA2560


SA2860

REMOVAL OF LEAF SPRING AND SHOCK ABSORBER

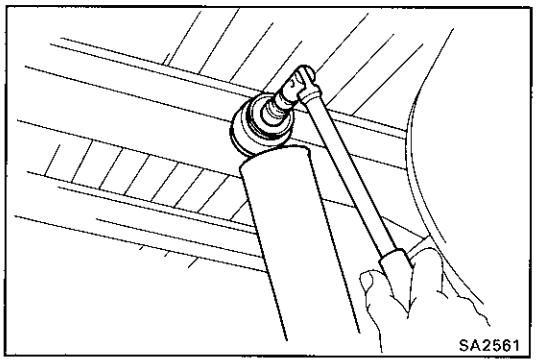
(See page SA-192)

1. JACK UP AND SUPPORT VEHICLE WITH STANDS

(a) Jack up and support the frame on stands.

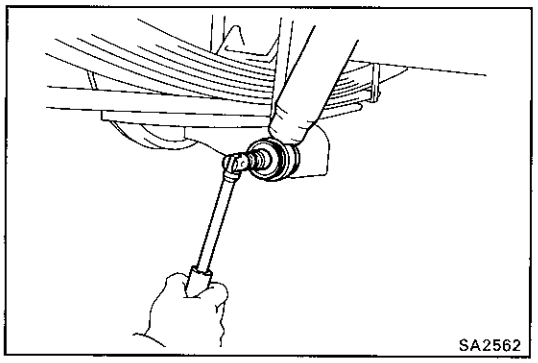
(b) Lower the axle housing until the leaf spring tension is free, and keep it at this position.

2. REMOVE REAR WHEEL

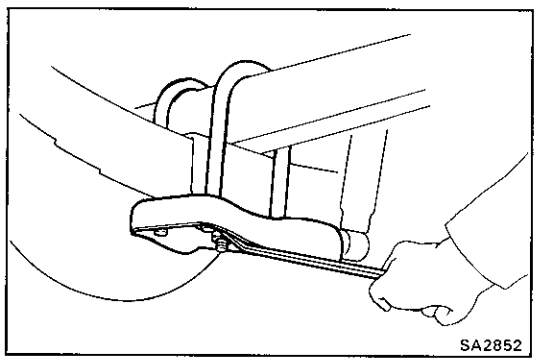

SA2561

3. REMOVE SHOCK ABSORBER

(a) Remove the upper mounting bolt, retainer and cushions and disconnect the shock absorber from the frame.


SA2562

(b) Remove the lower mounting bolt, retainer and cushions, disconnect the shock absorber from the spring seat.

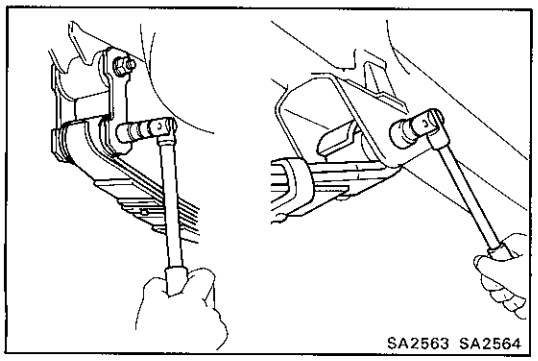

SA2852

4. REMOVE U-BOLTS

(a) Remove the U-bolt mounting nuts.

(b) Remove the spring seat, distance plate and pad.

(c) Remove the two U-bolts.


SA2563 SA2564

5. REMOVE LEAF SPRING

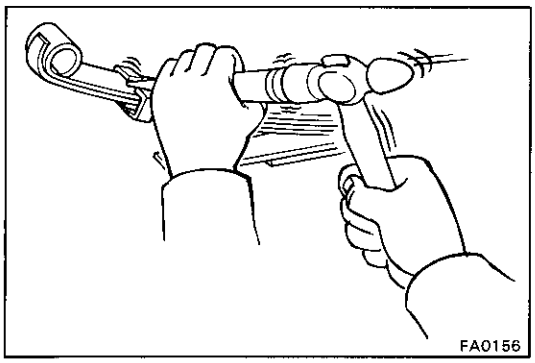
(a) Remove the hanger pin mounting nut and washer.

(b) Remove the shackle pin mounting nuts, washers and inner plate.

(c) Remove the bolt and hanger pin.

(d) Remove the shackle pin and leaf spring.

(e) Remove the bushings from the leaf spring.

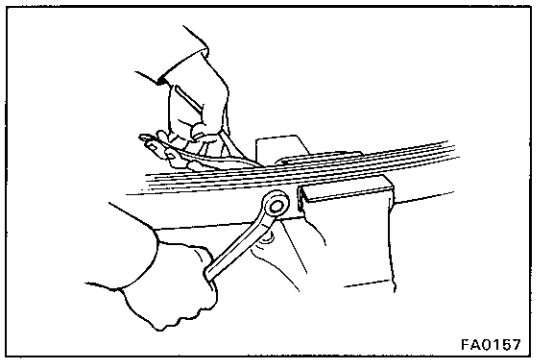

FA0156

REPLACEMENT OF LEAF SPRING

(See page SA-192)

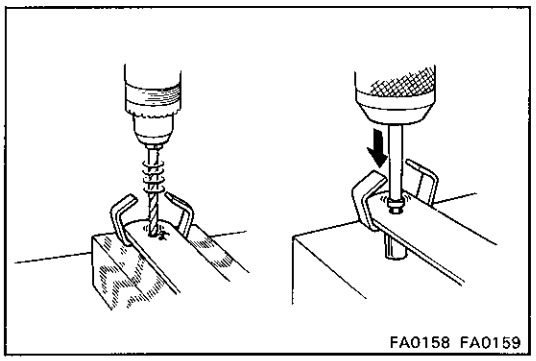
1. BEND OPEN SPRING CLIP

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


FA0157

2. REMOVE CENTER BOLT

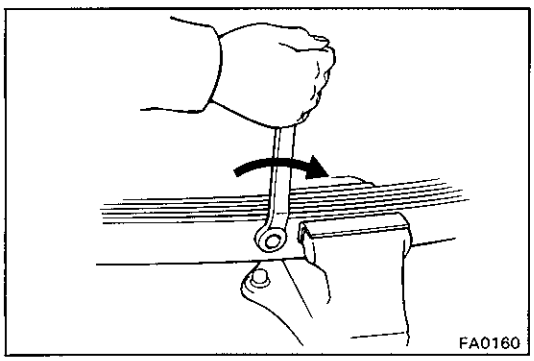
Hold the spring near the center bolt in a vise and remove the center bolt.


FA0158 FA0159

3. 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 leaf spring and clip. Then rivet with a press.


FA0160

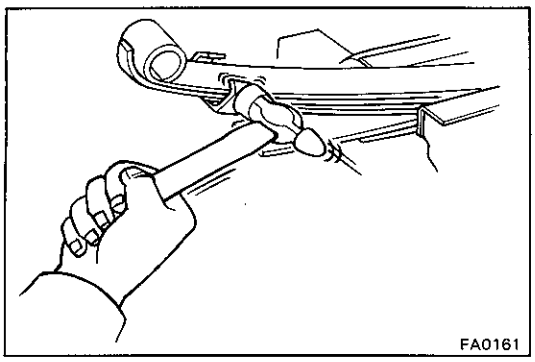
4. INSTALL SPRING CENTER BOLT

(a) Attach the spring silencer.

(b) Align the leaf holes and secure the leaves with a vise.

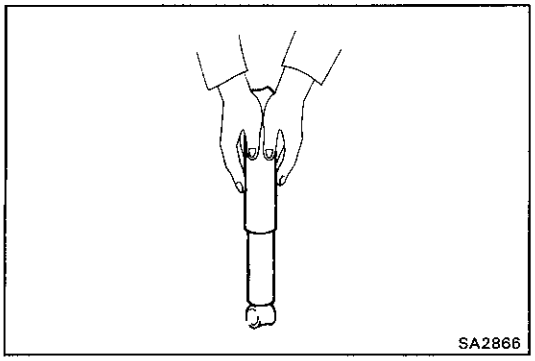
(c) Install and torque the spring center bolt.

Torque: 360 kg-cm (26 ft-lb, 35 N·m)


FA0161

5. BEND SPRING CLIP

Using a hammer, bend the spring clip into position.

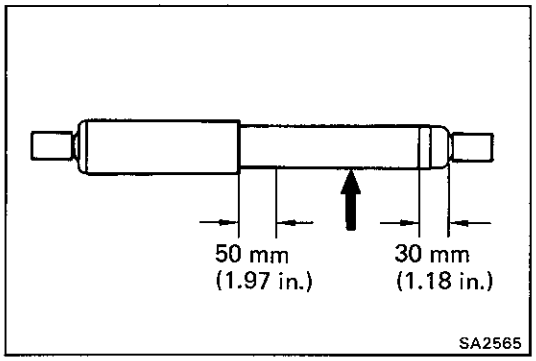


INSPECTION OF REAR SHOCK ABSORBER

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) Push the shock absorber in fully and release it. Check that it returns at a constant speed throughout.



2. 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.**

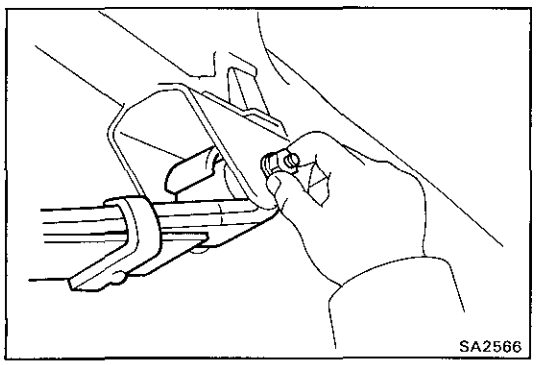
INSTALLATION OF LEAF SPRING AND SHOCK ABSORBER

(See page SA-192)

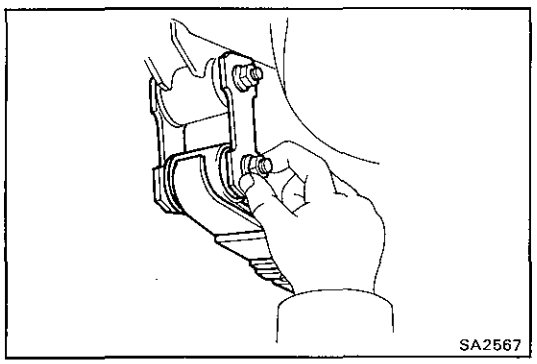
1. INSTALL LEAF SPRING

(a) Insert the bushings into both ends of the leaf spring.

(b) Place the leaf spring in the position.

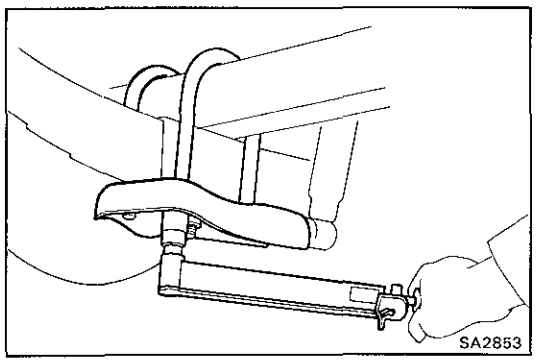


(c) Temporarily install the hanger pin and torque the nut.



(d) Install the shackle pin.

(e) Install the inner plate, and temporarily install the washers and nuts.



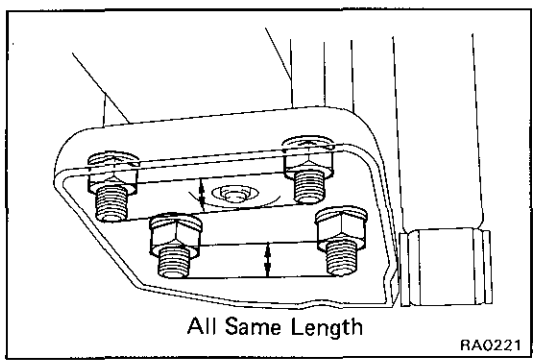
2. INSTALL U-BOLTS

(a) Insert the head of the leaf spring center bolt into the hole in the axle housing bracket and install.
(See page SA-93)

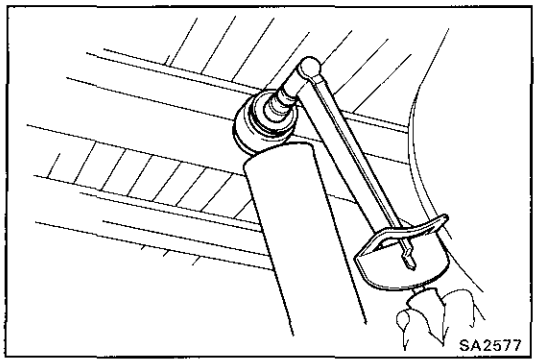
(b) Install the two U-bolts onto the leaf spring.

(c) Install the distance plate and spring seat.
Torque the four U-bolt mounting nuts.

Torque: 1,450 kg-cm (105 ft-lb, 142 N·m)



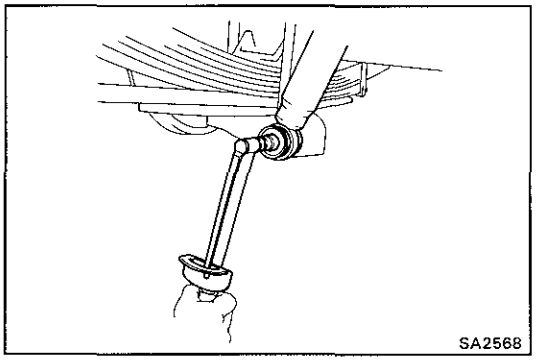
HINT: Torque the U-bolts so that the lengths of all the U-bolts under the spring seat are the same.



3. **INSTALL SHOCK ABSORBER**

(a) Connect the shock absorber to the frame with the upper mounting bolt, cushions and retainer. Torque the bolt.

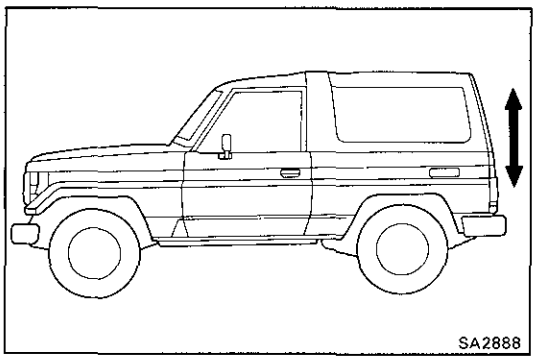
Torque: 650 kg-cm (47 ft-lb, 64 N·m)



(b) Connect the shock absorber to the spring seat with the lower mounting bolt, cushions and retainer. Torque the bolt.

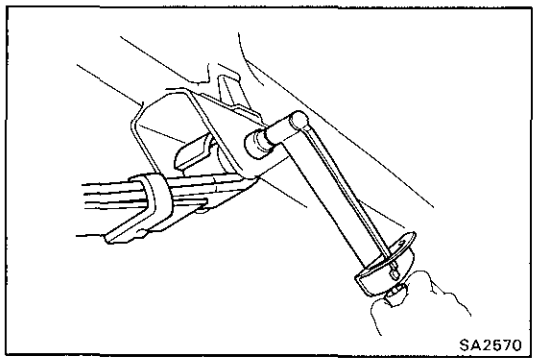
Torque: 650 kg-cm (47 ft-lb, 64 N·m)

4. **INSTALL WHEEL AND LOWER VEHICLE**



5. **STABILIZE SUSPENSION**

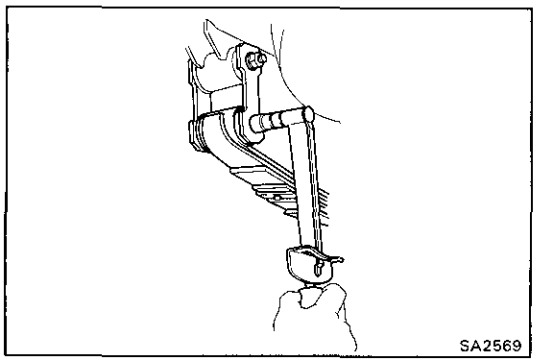
Bounce the vehicle up and down to stabilize the suspension.



6. **TORQUE HANGER PIN AND SHACKLE PIN**

(a) Torque the hanger pin nut.

Torque: 1,250 kg-cm (90 ft-lb, 123 N·m)



(b) Torque the shackle pin nut.

Torque: 925 kg-cm (67 ft-lb, 91 N·m)