270D5–01

OVERHAUL

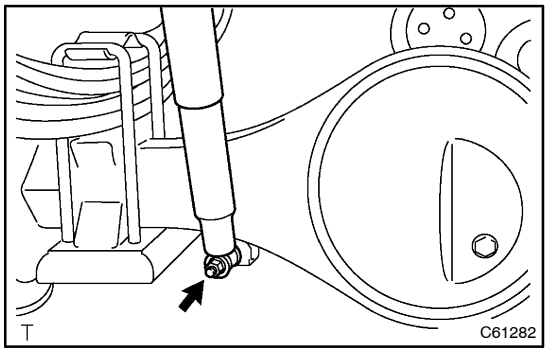
1. SUPPORT FRAME

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

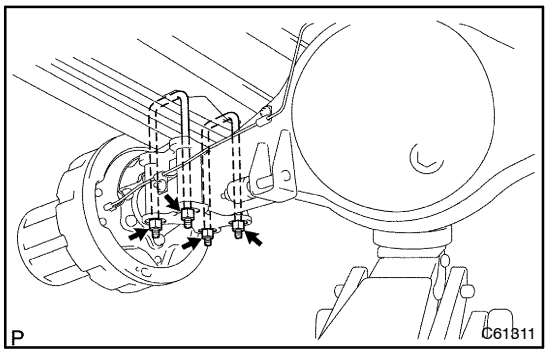
(b) Support the rear axle housing using a jack.

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

2. REMOVE REAR TIRE

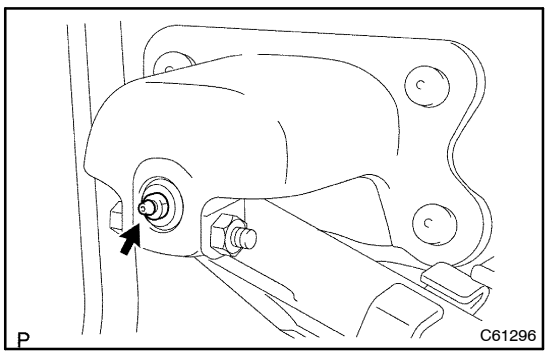


3. DISCONNECT SHOCK ABSORBER ASSY REAR LH



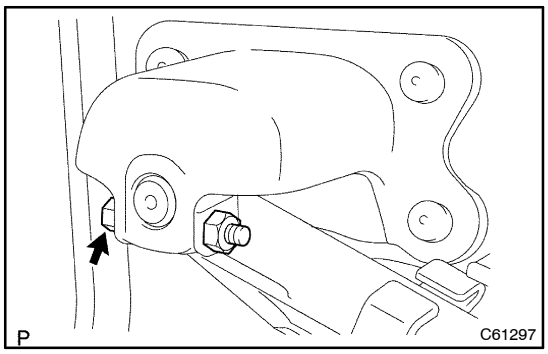
4. REMOVE U–BOLT

(a) Remove the 4 nuts, rear spring seat, retainer and 2 U–bolts.

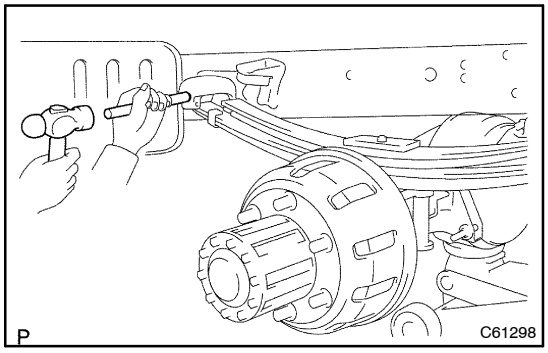


5. REMOVE REAR LH SPRING ASSY

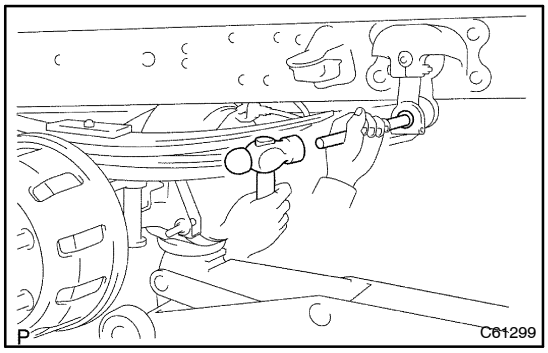
(a) Remove the grease nipple.



(b) Remove the nut, washer and bolt.

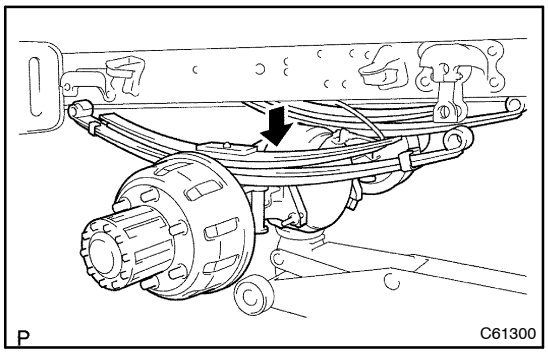


(c) Using a hammer and brass bar, tap out the spring pin.
(d) Remove the grease nipple (rear side).
(e) Remove the the nut, washer and bolt (rear side).

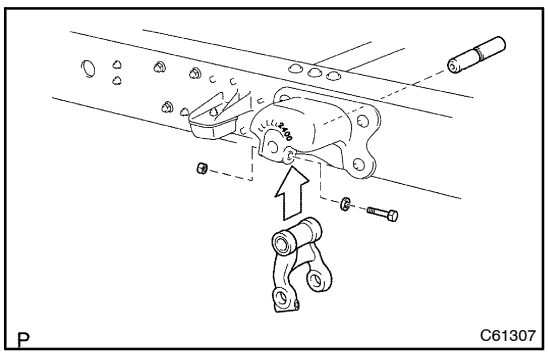


(f) Using a hammer and brass bar, tap out the spring pin.

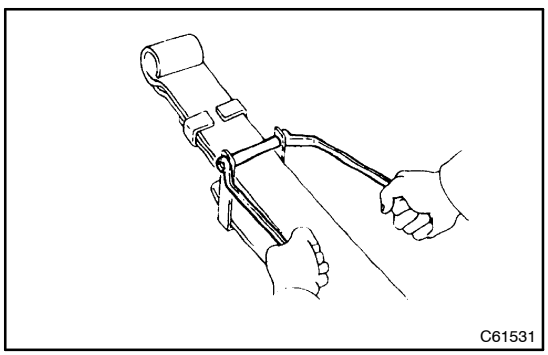
NOTICE:
Be careful not to drop the spring when removing the spring pin.



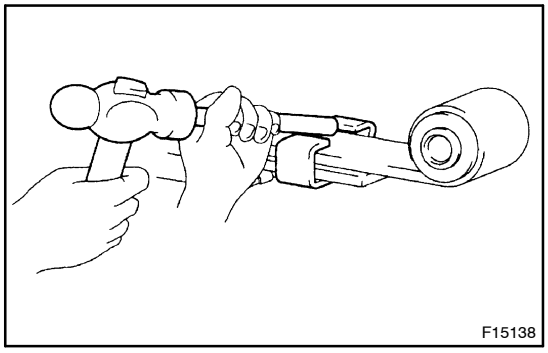
(g) Lower the jack and remove the spring.



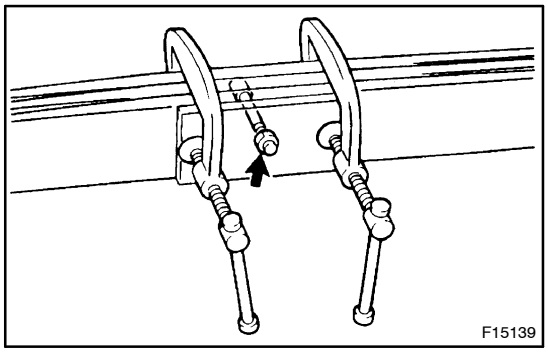
6. REMOVE REAR SPRING SHACKLE SUB–ASSY NO.2
(a) Remove the grease nipple.
(b) Remove the nut, washer, bolt, spring pin and shackle.



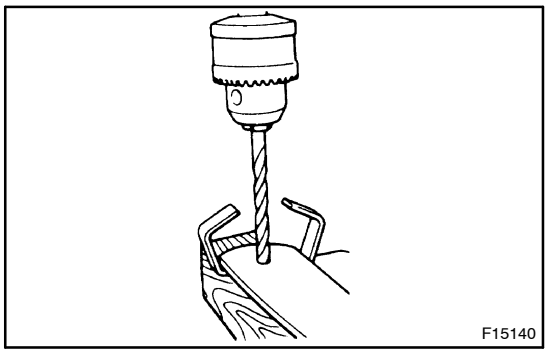
7. DISASSEMBLE REAR LH SPRING ASSY
(a) Remove the spring clip, bolt and nut.



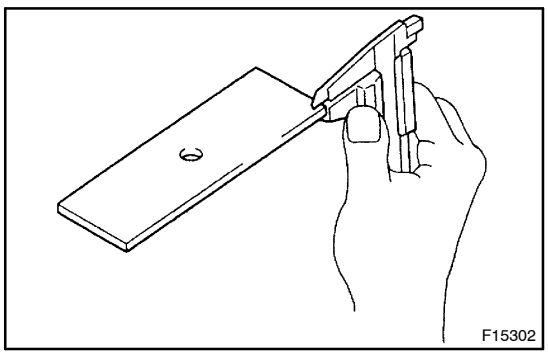
(b) Using a hammer and brass bar, tap out the 2 spring clips.



(c) Fix the spring with a vise, as shown in the illustration.
(d) Remove the nut, center bolt and spacers, inter leafs and springs.



(e) Using a drill, remove the rivet and the spring clip.

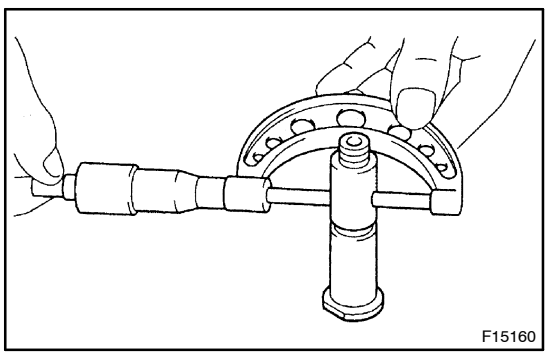


8. INSPECT REAR LH SPRING ASSY

(a) Using vernier calipers, measure the inter leaf thickness.
Thickness:

Standard	1.0 mm (0.04 in.)
Minimum	0.5 mm (0.02 in.)

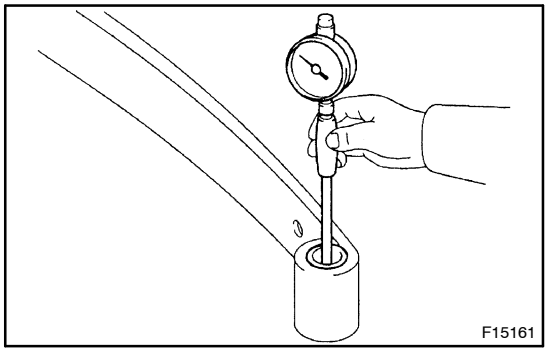
If the thickness is less than the minimum, replace the inter leaf.



(b) Using a micrometer, measure the diameter of the spring pin.
Diameter:

Standard	25.0 mm (0.984 in.)
Minimum	24.7 mm (0.972 in.)

If the diameter is less than the minimum, replace the spring pin.

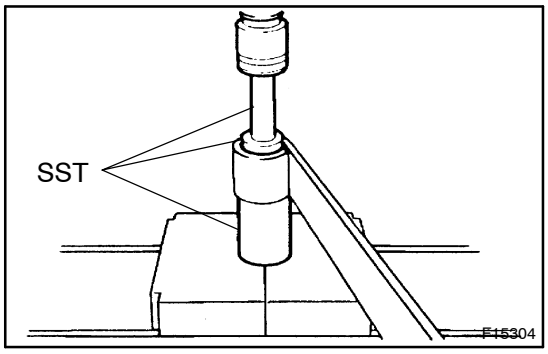


(c) Check the gap between the spring bush and pin.
(1) Using a cylinder gauge, measure the inner diameter of the spring bush.
(2) Subtract the the spring pin diameter from the spring bush diameter to obtain the gap.

Gap:

Standard	0.02 – 0.125 mm (0.001 – 0.005 in.)
Maximum	0.50 mm (0.020 in.)

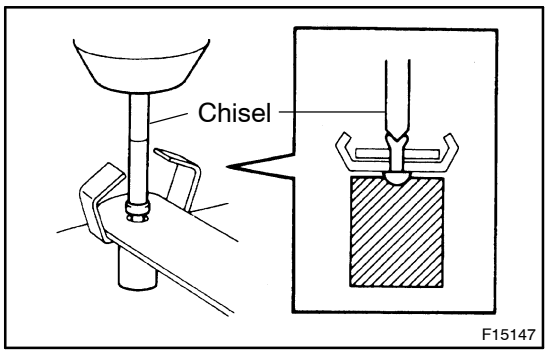
If the gap is greater than the maximum, replace the spring bush and pin.



9. REPLACE BUSH

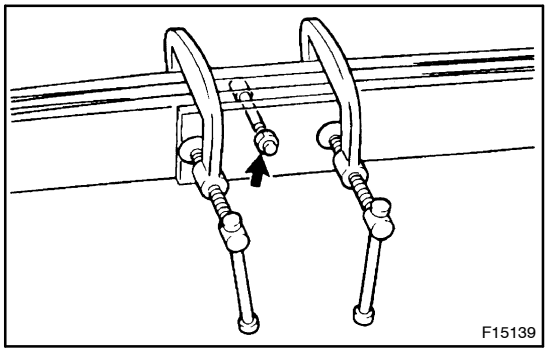
(a) Using SST and a press, press out the bush.
SST 09309–60010, 09950–60010 (09951–00300), 09950–70010 (09951–07100)

(b) Using SST and a press, press in a new bush.
SST 09950–60010 (09951–00300), 09950–70010 (09951–07100)

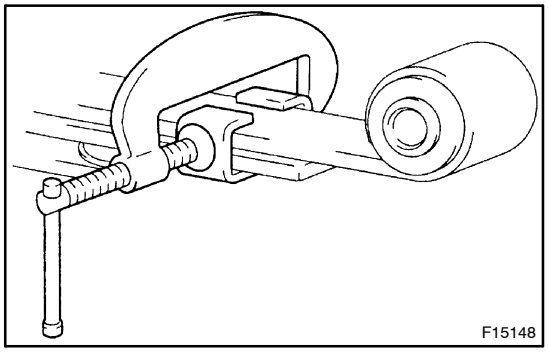


10. ASSEMBLE REAR LH SPRING ASSY

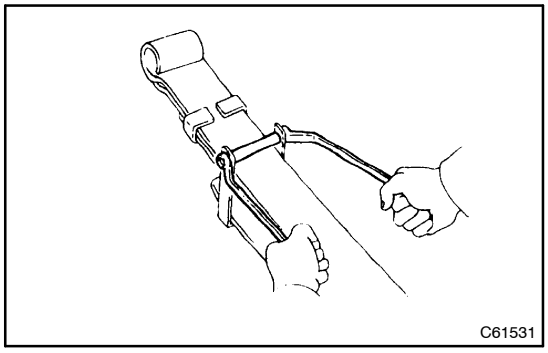
(a) Install the spring clip with a new rivet.
(b) Using a chisel and press, caulk the rivet.
(c) Check that the spring clip is not loose.
(d) Install the spacers and inter leafs between the springs.



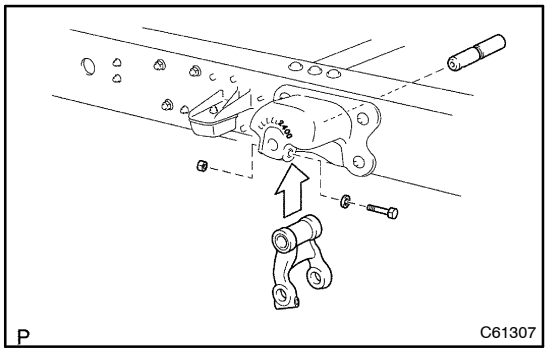
(e) Fix the springs with a vise and install the center bolt and nut.
Torque: 97 N·m (990 kgf·cm, 75 ft·lbf)



(f) Using a vise, caulk the 2 clips.
(g) Check that there is no gap between the spring clip and the spring side.



(h) Install the spring clip, bolt and nut.

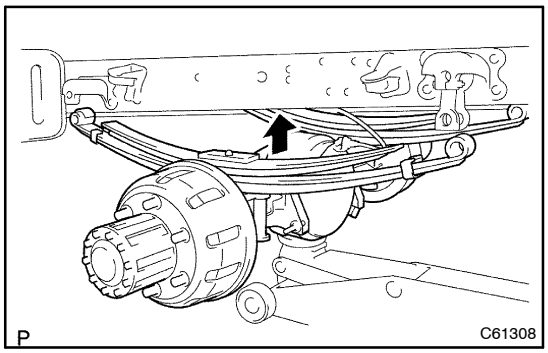


11. INSTALL REAR SPRING SHACKLE SUB–ASSY NO.2

(a) Apply grease to the spring pin.
Grease: Special grease for chassis

(b) Install the shackle with the spring pin, washer, bolt and nut.

(c) Install the grease nipple.
Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)



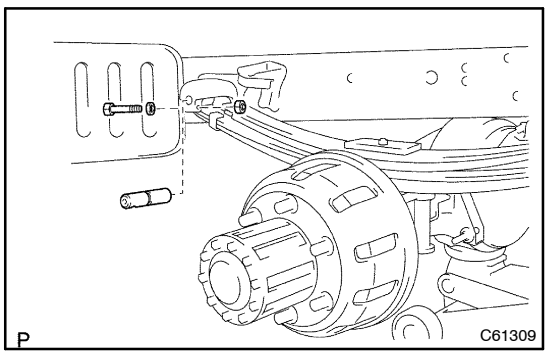
12. INSTALL REAR LH SPRING ASSY

(a) Place the spring on the rear axle housing.

(b) Align the hole of the rear axle housing with the head of the spring center bolt.

(c) Jack up the rear axle housing.

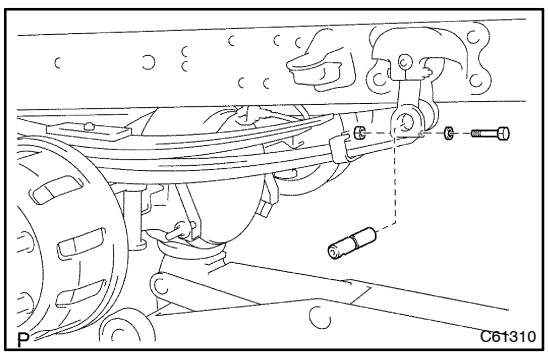
(d) Apply grease to the spring pin.
Grease: Special grease for chassis



(e) Connect the front side spring with the spring pin, and install the washer, bolt and nut.

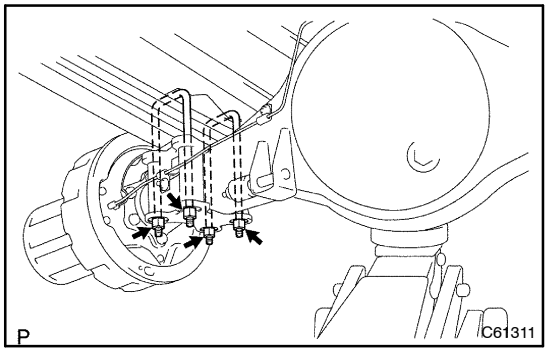
(f) Install the grease nipple.
Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)

(g) Apply grease to the spring pin.
Grease: Chassis grease special



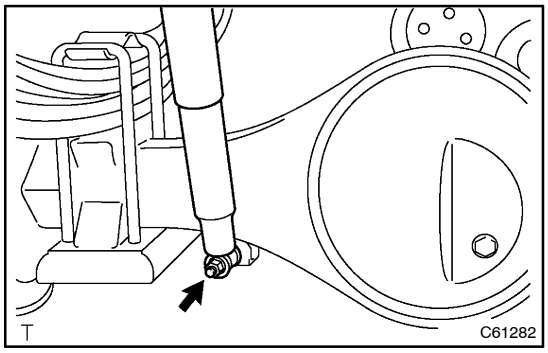
(h) Connect the front side spring with the spring pin, and install the washer, bolt and nut.

(i) Install the grease nipple.
Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)



13. INSTALL U–BOLT

(a) Install the rear spring seat, retainer, 2 U–bolts and 4 nuts.
Torque: 290 N·m (2,950 kgf·cm, 213 ft·lbf)



14. CONNECT SHOCK ABSORBER ASSY REAR LH

15. INSTALL REAR TIRE

16. INSPECT REAR SUSPENSION

(a) Remove the jack and stands.

(b) Rock the vehicle several times up and down to settle the front suspension in unloaded condition.

(c) Tighten the nuts and bolts of the front suspension parts.
Torque:

Part Tightened	N·m	kgf·cm	ft·lbf
Bolt and nut of spring pin	52	530	38
Rear shock absorber x Rear axle housing	68	700	50

17. APPLY GREASE

(a) Using a grease gun, apply grease to the spring pins.
Grease: Special grease for chassis