270D7–01

OVERHAUL

1. SUPPORT FRAME

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

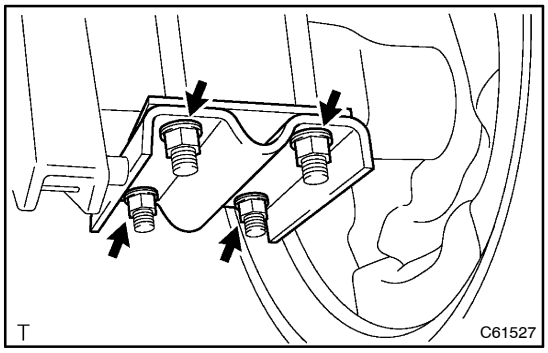
(b) Support the rear axle housing using a jack.

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

2. REMOVE REAR TIRE

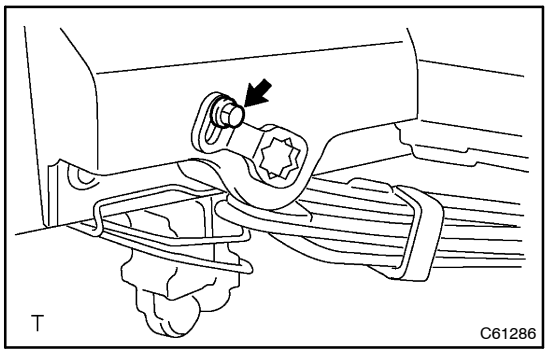
3. DISCONNECT SHOCK ABSORBER ASSY REAR LH

(a) Remove the bolt and washer, and disconnect the rear shock absorber from the rear axle housing.



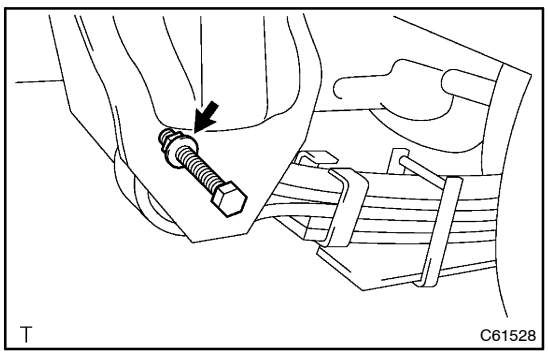
4. REMOVE U–BOLT

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

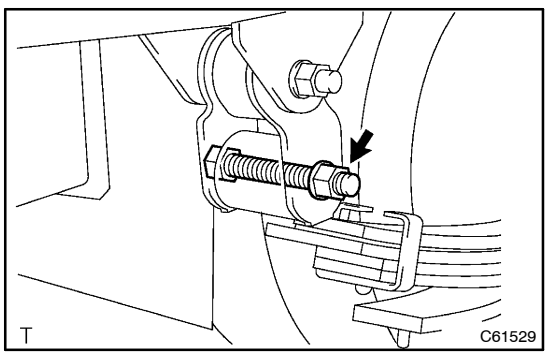


5. REMOVE REAR LH SPRING ASSY

(a) Remove the bolt and spring pin support.



(b) Remove the nut and through bolt.

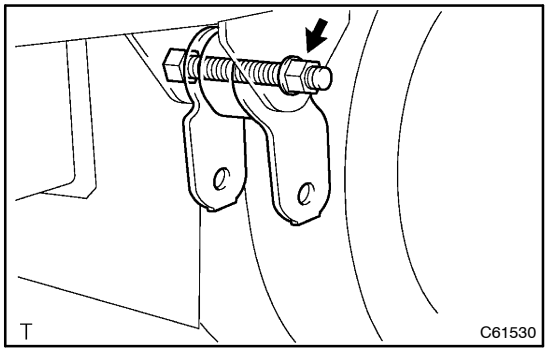


(c) Remove the nut and through bolt.

NOTICE:

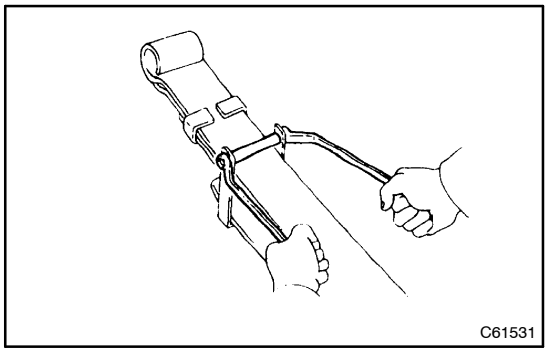
Be careful not to drop the spring when removing the through bolt.

(d) Lower the jack and remove the spring.



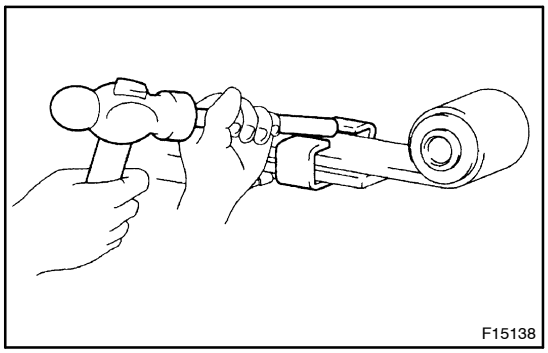
6. REMOVE REAR SPRING SHACKLE SUB–ASSY NO.2

(a) Remove the nut, through bolt and shackle.

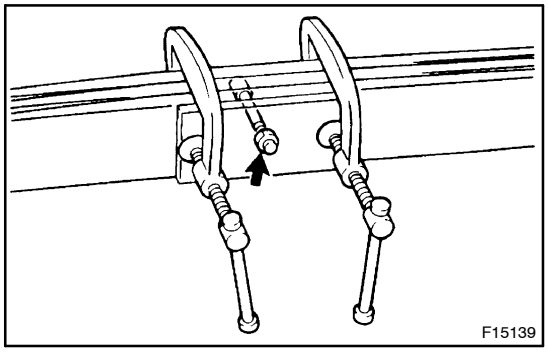


7. DISASSEMBLE REAR LH SPRING ASSY

(a) Remove the spring clip, bolt and nut.

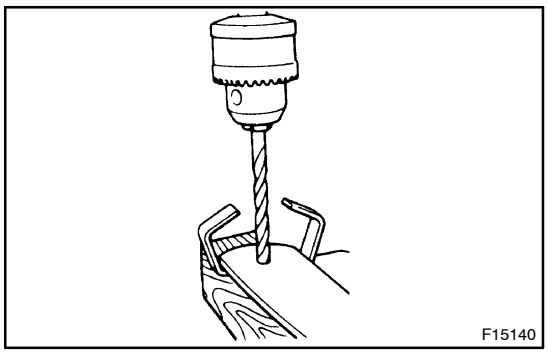


(b) Using a hammer and brass bar, tap out the 2 spring clips.

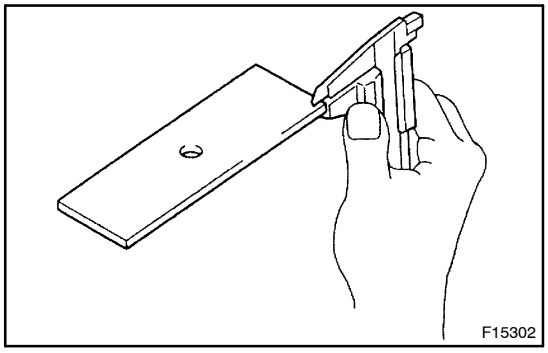


(c) Fix the spring with a vise, as shown in the illustration.

(d) Remove the nut, center bolt and spacers, inter leafs and springs.



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



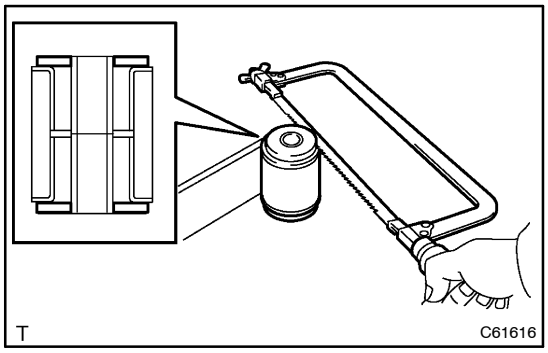
8. INSPECT REAR LH SPRING ASSY

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

Thickness:

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

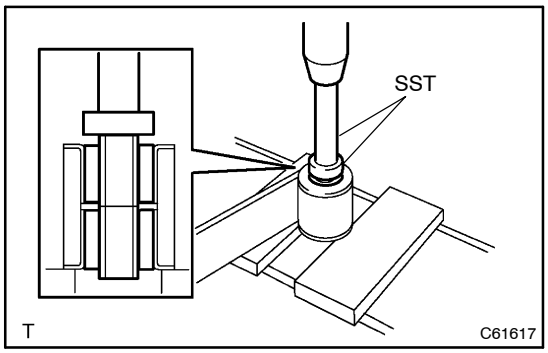
If the thickness is less than the minimum, replace the inter leaf.



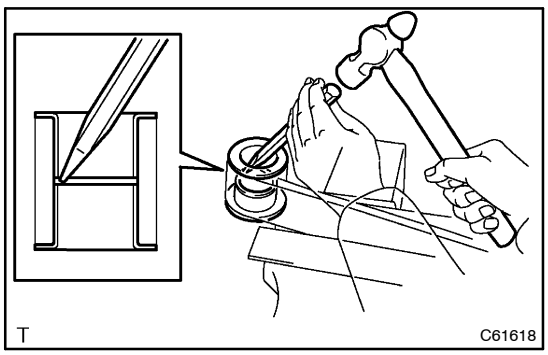
9. REPLACE BUSH

(a) Fix the spring with a vise.

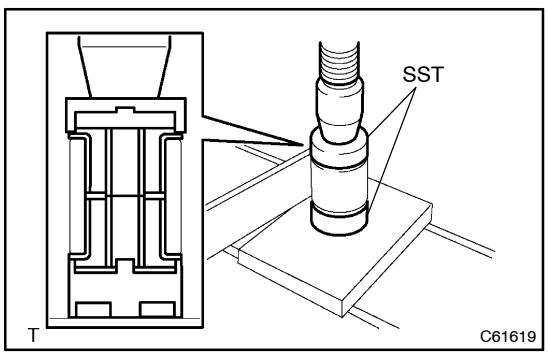
(b) Using a hack saw blade, cut the both ends of the bush.



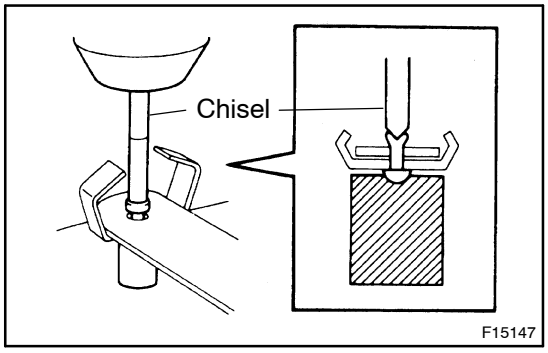
(c) Using SST and a press, press out the 2 bushes.
SST 09950–60010 (09951–00350), 09950–70010 (09951–07100)



(d) Using a chisel and hammer, tap out the 2 outer tubes.

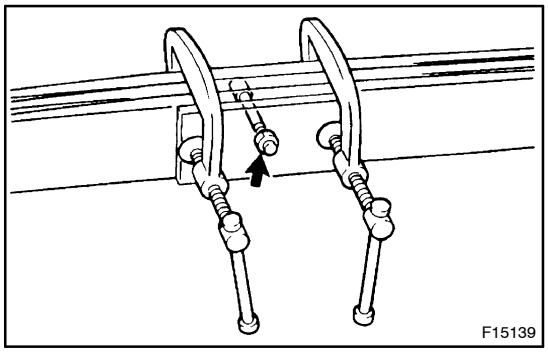


(e) Using SST and a press, press in 2 new bushes.
SST 09710–28012 (09710–07062), 09710–30041 (09710–03211)

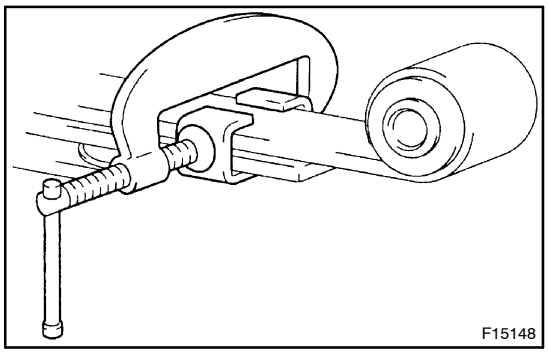


10. ASSEMBLE REAR LH SPRING ASSY

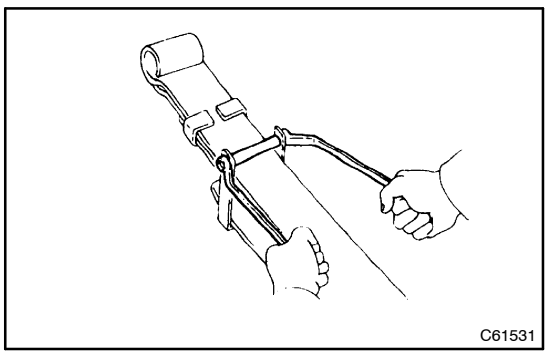
(a) Install the spring clip with a new rivet.
(b) Using a chisel and press, caulk the rivet.
(c) Check that the spring clip is not loose.
(d) Install the spacers and inter leafs between the springs.



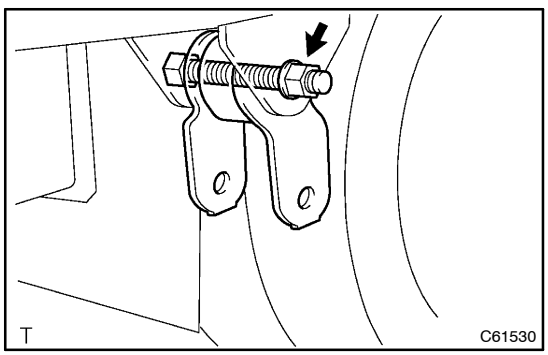
(e) Fix the springs with a vise and install the center bolt and nut.
Torque: 73.5 N·m (750 kgf·cm, 54 ft·lbf)



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



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

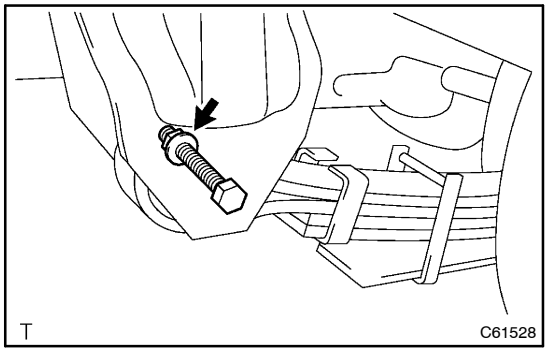


11. INSTALL REAR SPRING SHACKLE SUB–ASSY NO.2

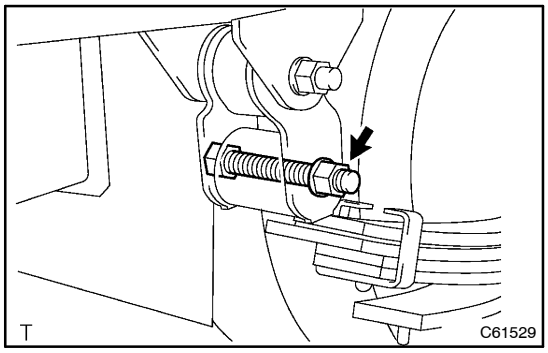
(a) Install the shackle with the through bolt and nut.

12. INSTALL REAR LH SPRING ASSY

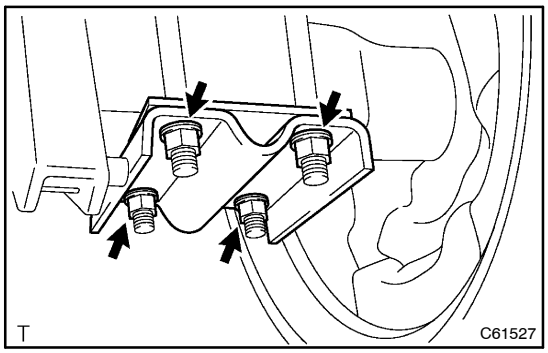
(a) Place the spring on the rear axle housing.
(b) Align the hole of the rear axle housing with the head of the spring center bolt.
(c) Jack up the rear axle housing.



(d) Install the through bolt and nut.



(e) Install the through bolt and nut.



13. INSTALL U–BOLT

(a) Install the spring seat upper, U–bolt spring seat, 2 U–bolts and 4 nuts.

Torque:
195 N·m (1,988 kgf·cm, 144 ft·lbf) for standard cab
290 N·m (2,957 kgf·cm, 214 ft·lbf) for wide cab

14. INSTALL SHOCK ABSORBER ASSY REAR LH

(a) Install the 2 washers and connect the shock absorber with the bolt.

15. INSTALL REAR TIRE

16. INSPECT REAR SUSPENSION

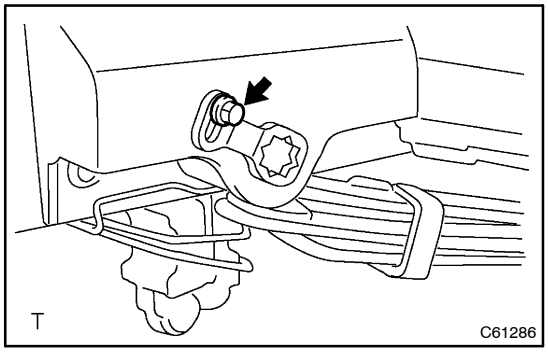
(a) Remove the jack and stands.

(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
Rear spring shackle x Frame	220	2,250	162
Rear spring assy LH x Rear spring shackle	220	2,250	162
Rear spring assy LH x Frame	220	2,250	162
Rear shock absorber x Rear axle houshing	68	700	50



(d) Install the bolt.
Torque:
10.5 N·m (107 kgf·cm, 8 ft·lbf) for standard cab
11.5 N·m (117 kgf·cm, 8.4 ft·lbf) for wide cab