SHOCK ABSORBER ASSY FRONT LH

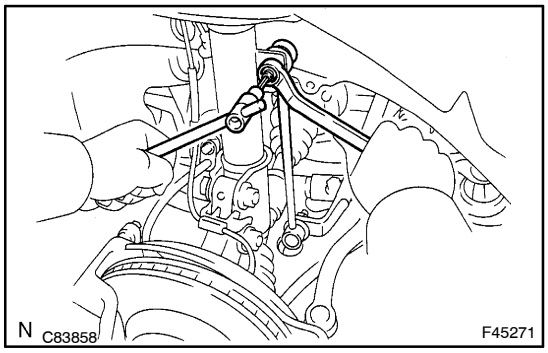
260IQ–01

REPLACEMENT

HINT:

- COMPONENTS: See page 26–2.
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

1. REMOVE FRONT WHEEL



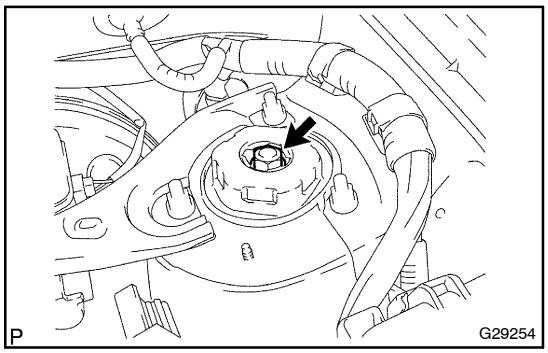
2. SEPARATE FRONT STABILIZER LINK ASSY LH

(a) Place a wooden block on a jack, and support the front suspension lower arm No.1 LH with the jack.

(b) Remove the nut and separate the front stabilizer link assy from the shock absorber with coil spring.

HINT:

Use a hexagon wrench (6 mm) to hold the stud if the ball joint turns together with the nut.

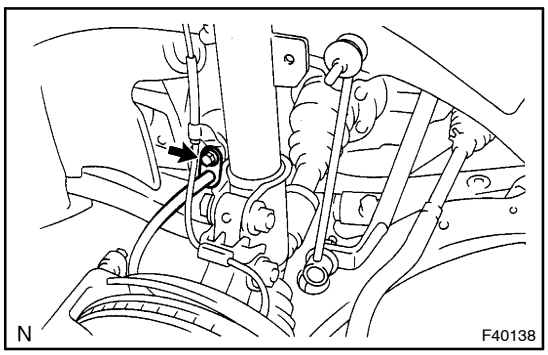


3. REMOVE FRONT SHOCK ABSORBER WITH COIL SPRING

(a) Loosen the lock nut.

NOTICE:

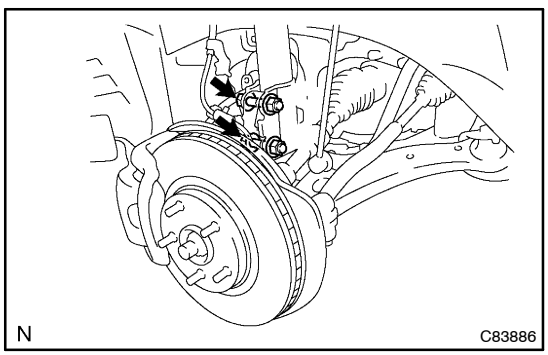
- **Do not loosen or remove the lock nut except when disassmbling the shock absorber assy front LH with coil spring.**
- **Do not remove the lock nut.**



(b) Remove the bolt, and disconnect the front flexible hose No.1 and speed sensor front LH wire harness.

NOTICE:

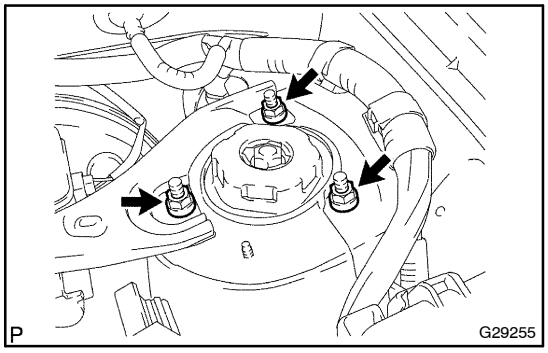
Be sure to completely disconnect the speed sensor front LH from the front shock absorber assy.



(c) Remove the 2 nuts on the lower side of front shock absorber with coil spring.

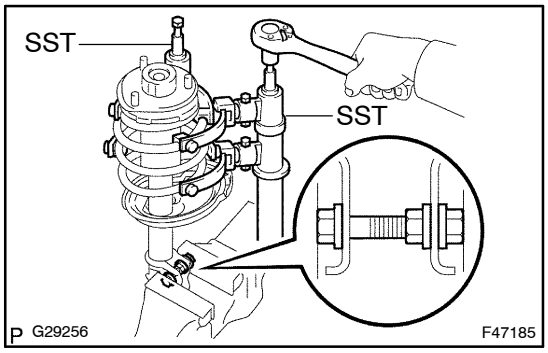
HINT:

When removing the bolts, keep the bolt from rotating and loosen the nut.



(d) Remove the 3 nuts on the upper side of the front shock absorber with coil spring.
(e) Remove the front shock absorber with the coil spring.

NOTICE:
Make sure that the front speed sensor is disconnected from the front shock absorber.



4. FIX FRONT SHOCK ABSORBER WITH COIL SPRING

(a) As shown in the illustration to the left, secure the front shock absorber with coil spring in a vise by clamping onto a double nutted bolt affixed to the bracket at the bottom of the absorber.

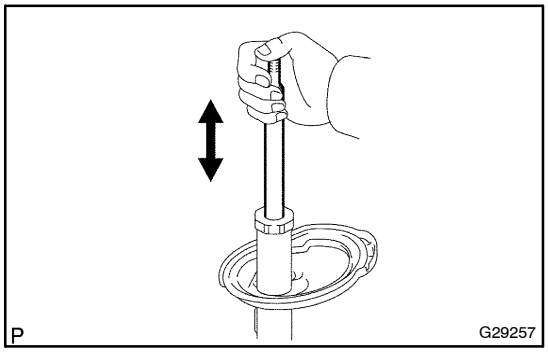
5. REMOVE SHOCK ABSORBER ASSY FRONT LH

(a) Using SST, compress the front coil spring LH.
SST 09727–30021 (09727–00010, 09727–00021)

NOTICE:
Do not use an impact wrench. It will damage the SST.

HINT:
- Use 2 of the same type of SST.
- The coil spring can also be installed/removed using the hydraulic spring compressor.

(b) Remove the front suspension support sub–assy LH, front suspension support bearing LH, front coil spring seat upper LH, front coil spring insulator upper LH, front coil spring LH, front spring bumper LH and front coil spring insulator lower LH from the shock absorber assy front LH.



6. INSPECT SHOCK ABSORBER ASSY FRONT LH

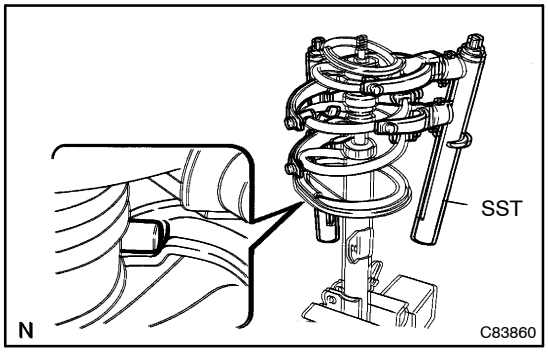
(a) Compress and extend the shock absorber rod 4 or more times.
Then check that there is no abnormal resistance or sound, and operation resistance is normal.

If there is any abnormality, replace the shock absorber assy front LH with a new one.

NOTICE:
When disposing of the shock absorber assy front LH, see DISPOSAL on page 26–15.

7. INSTALL SHOCK ABSORBER ASSY FRONT LH

(a) Install the front coil spring insulator lower LH onto the shock absorber assy front LH.
(b) Install the front spring bumper LH to the piston rod.



(c) Using SST, compress the front coil spring LH.
SST 09727–30021 (09727–00010, 09727–00021)

NOTICE:

Do not use an impact wrench. It will damage the SST.

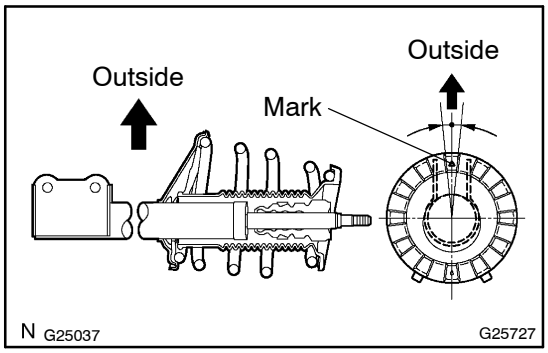
HINT:

- Use 2 of the same type of SST.
- The coil spring can also be installed/removed using the hydraulic spring.

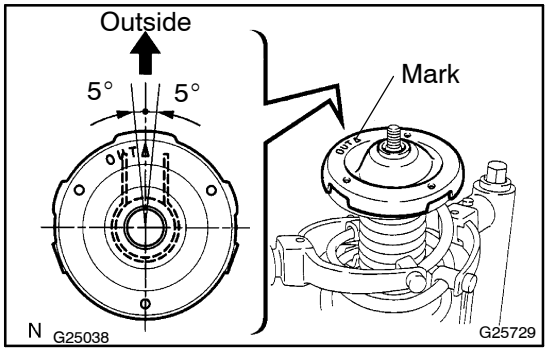
(d) Install the front coil spring LH to the shock absorber assy front LH.

HINT:

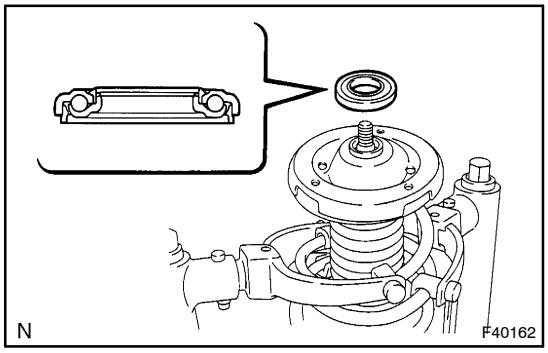
Fit the lower end of the front coil spring LH in the gap of the spring insulator lower LH.



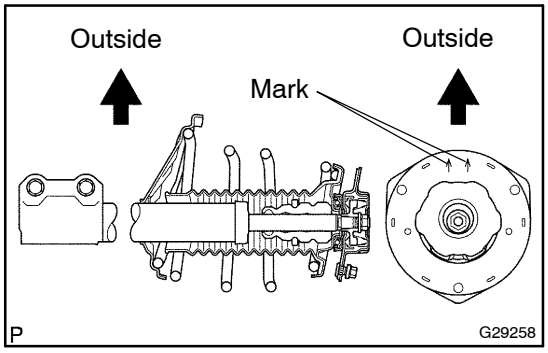
(e) Install the front coil spring insulator upper LH with the mark facing to the outside of the vehicle as shown in the illustration.



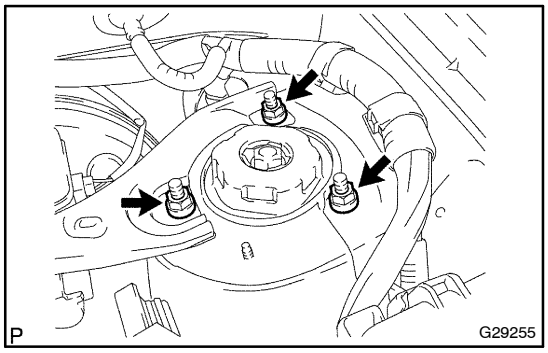
(f) Install the front coil spring seat upper LH to the shock absorber assy front LH with the mark facing to the outside of the vehicle.



(g) Install a new front suspension support bearing LH.



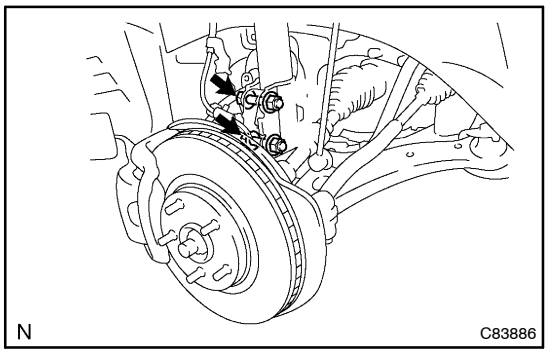
(h) Install the front suspension support sub–assy LH with the mark facing to the outside of the vehicle.
(i) Temporarily tighten a new lock nut.
(j) Remove the SST slowly in order to release the coil spring.
SST 09727–30021 (09727–00010, 09727–00021)



8. INSTALL FRONT SHOCK ABSORBER WITH COIL SPRING

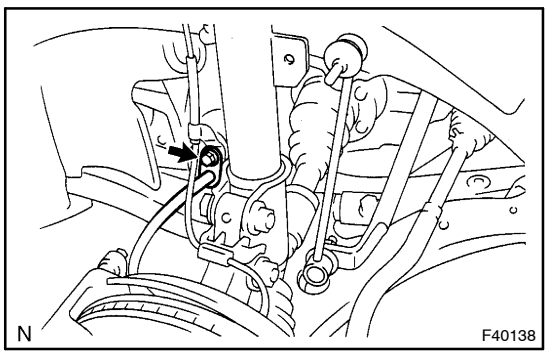
(a) Install the front shock absorber with coil spring.
(b) Install the 3 nuts to the upper side of front shock absorber with coil spring.
Torque: 80 N·m (816 kgf·cm, 59 ft·lbf)

NOTICE:
Do not tighten the lock nut until installing the bolts and nuts (lower side).



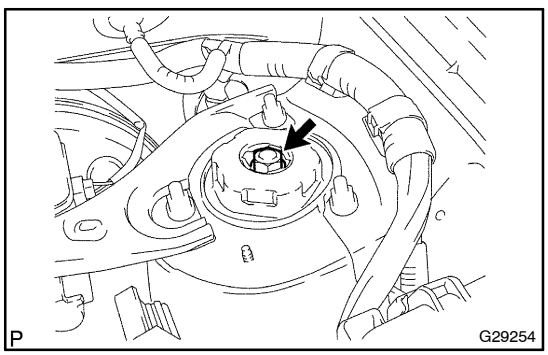
(c) Install the 2 bolts and 2 nuts to the lower side of front shock absorber with coil spring.
Torque: 230 N·m (2,350 kgf·cm, 170 ft·lbf)

HINT:
When installing the nuts, keep the bolts from rotating and torque the nut.

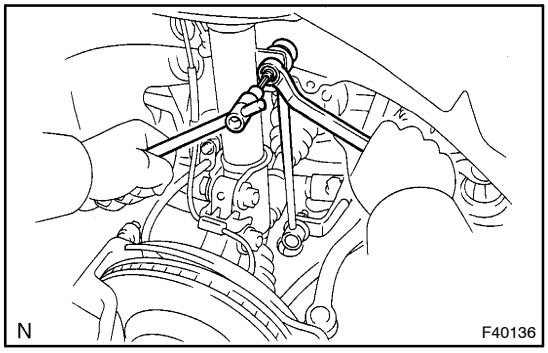


(d) Install the front flexible hose No.1 and speed sensor front LH with the bolt.
Torque: 19 N·m (194 kgf·cm, 14 ft·lbf)

NOTICE:
Do not twist the speed sensor front while installing.



(e) Fully tighten the lock nut.
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)



9. INSTALL FRONT STABILIZER LINK ASSY LH

(a) Install the front stabilizer link assy LH with the nut.
Torque: 74 N·m (755 kgf·cm, 55 ft·lbf)

HINT:
Use a hexagon wrench (6 mm) to hold the stud if the ball joint turns together with the nut.

10. INSTALL FRONT WHEEL
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

11. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (SEE PAGE 26–5)