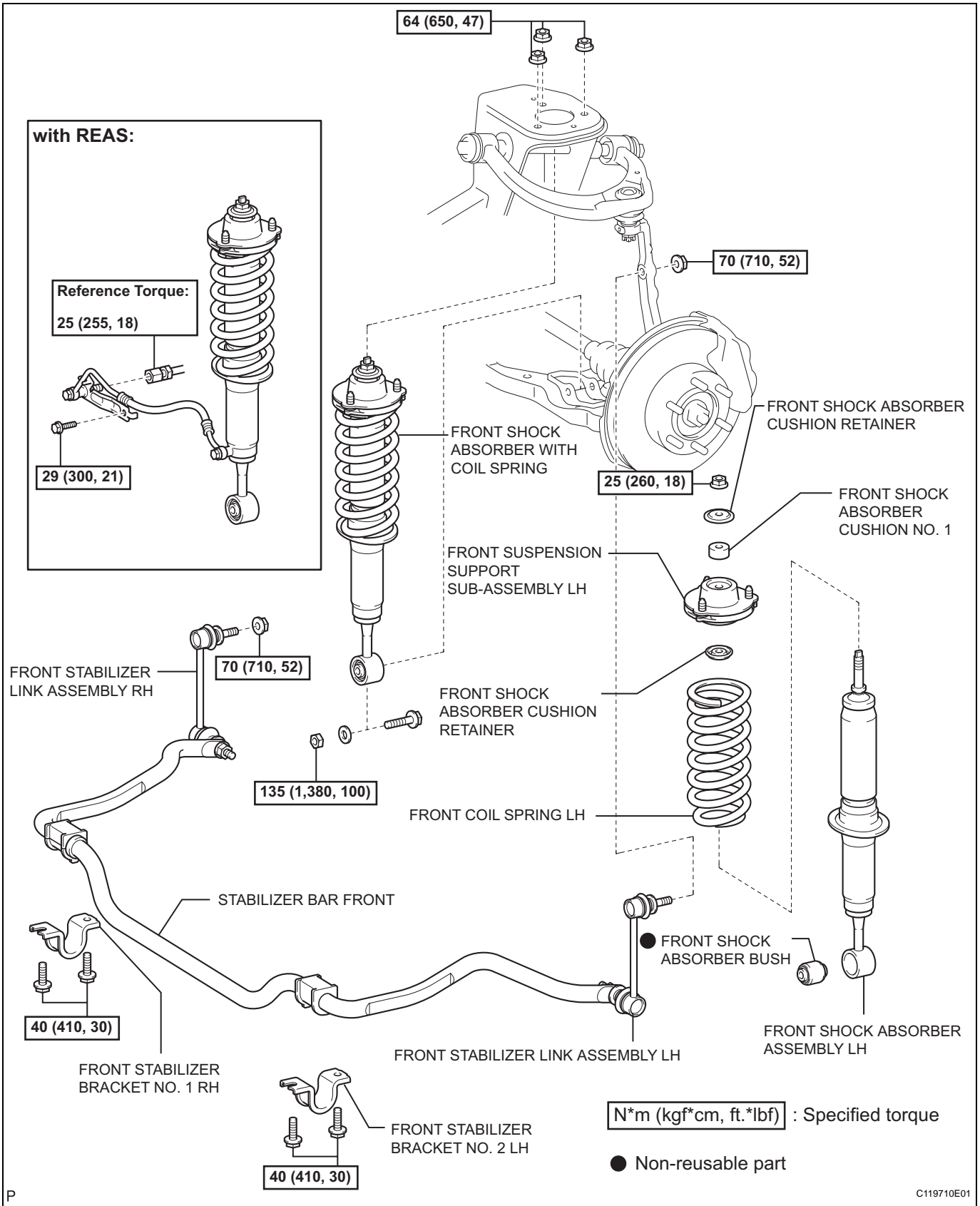


FRONT SHOCK ABSORBER

COMPONENTS



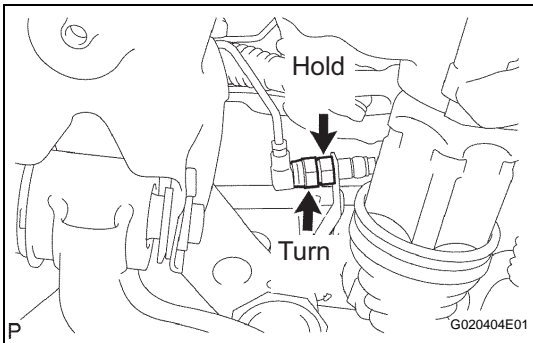
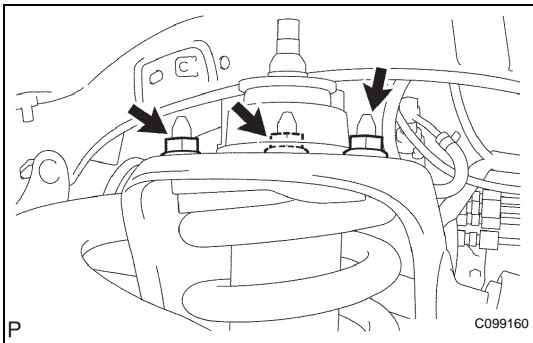
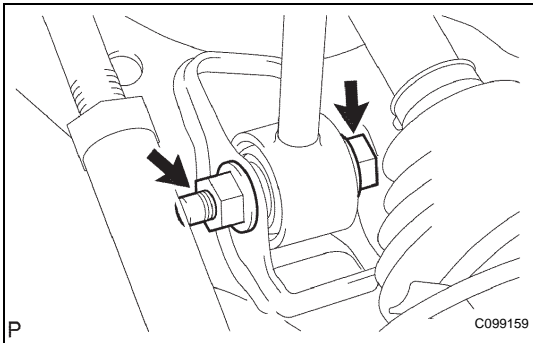
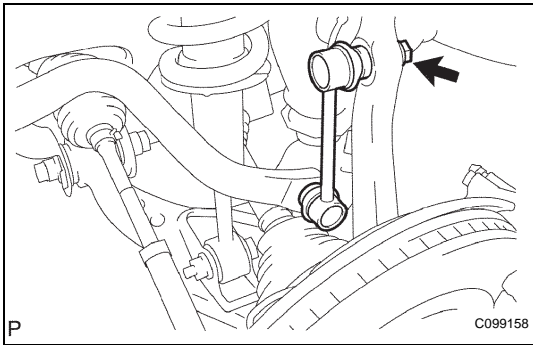
SP

REMOVAL

1. REMOVE FRONT DISC WHEEL
2. REMOVE FRONT STABILIZER LINK ASSEMBLY LH
 - (a) Remove the nut and disconnect the stabilizer link from the steering knuckle.

HINT:
If the ball joint turns together with the nut, use a hexagon (6 mm) wrench to hold the stud.
3. REMOVE FRONT STABILIZER LINK ASSEMBLY RH

HINT:
Remove the RH side by following the same procedures with the LH side.
4. REMOVE FRONT STABILIZER BRACKET NO. 2 LH
5. REMOVE FRONT STABILIZER BRACKET NO. 1 RH
6. REMOVE STABILIZER BAR FRONT
7. REMOVE FRONT SHOCK ABSORBER WITH COIL SPRING (w/o REAS)
 - (a) Remove the bolt, the nut and the washer.

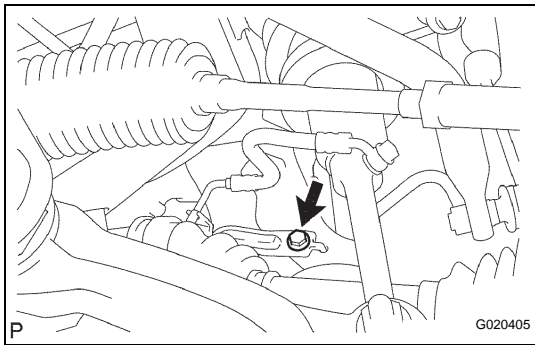


- (b) Remove the 3 nuts on the upper side of the front shock absorber with coil spring.
 - (c) Remove the front shock absorber with coil spring.
8. REMOVE FRONT SHOCK ABSORBER WITH COIL SPRING (w/ REAS)

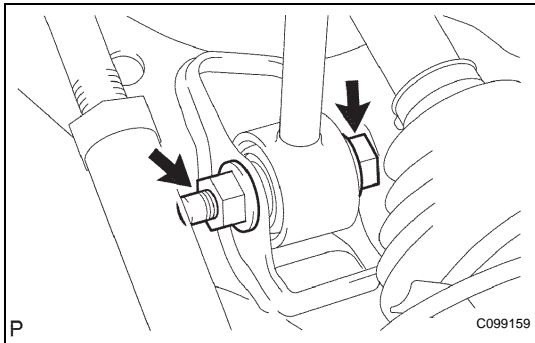
NOTICE:
Conduct the operations as stretching all the shock absorbers out by jacking up the vehicle.

 - (a) As shown in the illustration, loosen the nut and disconnect the tube.

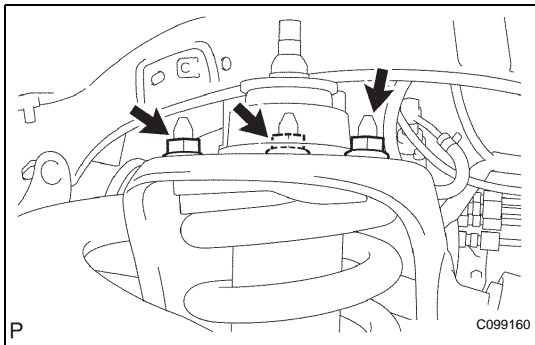
NOTICE:
Never loosen the absorber hoses and the flare nuts at the joint parts.



(b) Remove a bolt and the bracket.

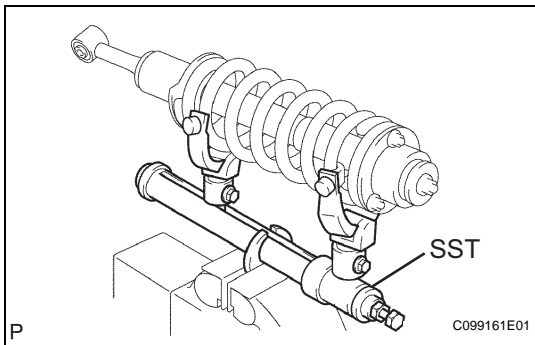


(c) Remove a bolt, the nut and the washer.



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

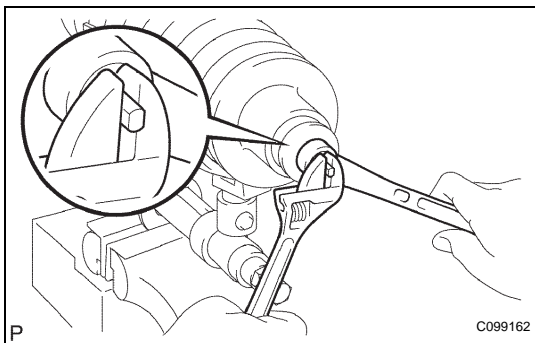
(e) Remove the front shock absorber with coil spring.



9. REMOVE FRONT SUPPORT TO FRONT SHOCK ABSORBER NUT

(a) Using SST, compress the coil spring.
SST 09727-30021 (09727-00010, 09727-00031), 09727-00060

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



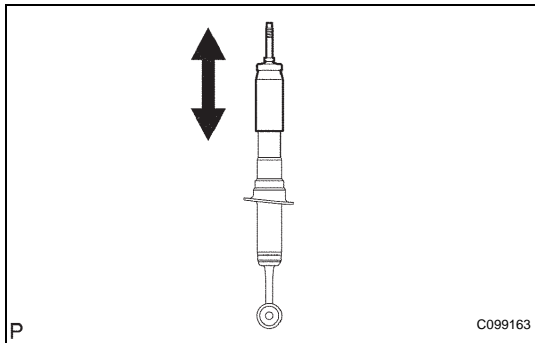
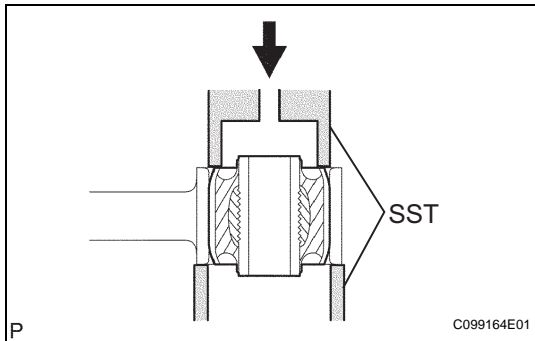
(b) Hold the shock absorber rod, remove the nut.
NOTICE:
 Do not use an impact wrench. It will damage the shock absorber rod.

10. REMOVE FRONT SHOCK ABSORBER CUSHION RETAINER

11. REMOVE FRONT SHOCK ABSORBER CUSHION NO. 1

12. REMOVE FRONT SUSPENSION SUPPORT SUB-ASSEMBLY LH
13. REMOVE FRONT SHOCK ABSORBER CUSHION RETAINER
14. REMOVE FRONT COIL SPRING LH
15. REMOVE FRONT SHOCK ABSORBER BUSH
 - (a) Using SST and a press, remove the absorber bush.

SST 09710-22021 (09710-01071, 09710-01081)



INSPECTION

1. INSPECT SHOCK ABSORBER ASSEMBLY FRONT LH
 - (a) Compress and extend the shock absorber rod, and check that there is no abnormal resistance or unusual sound during operation. If there is any abnormality, replace the shock absorber assembly front LH with a new one.

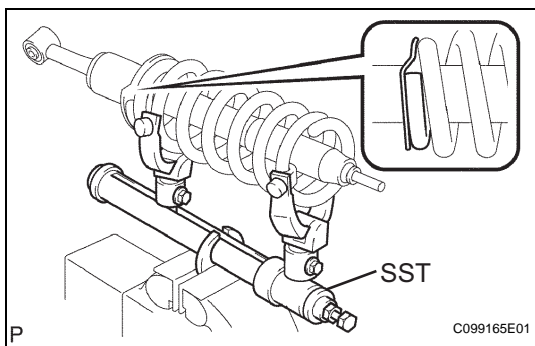
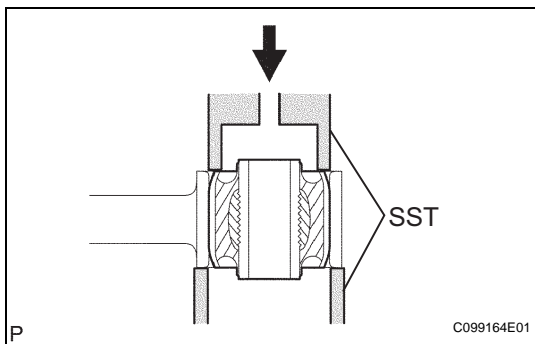
NOTICE:

When disposing of the shock absorber assembly front LH, see **DISPOSAL** (See page [SP-15](#)).

INSTALLATION

1. INSTALL FRONT SHOCK ABSORBER BUSH
 - (a) Using SST and a press, install a new absorber bush.

SST 09710-22021 (09710-01071, 09710-01081)



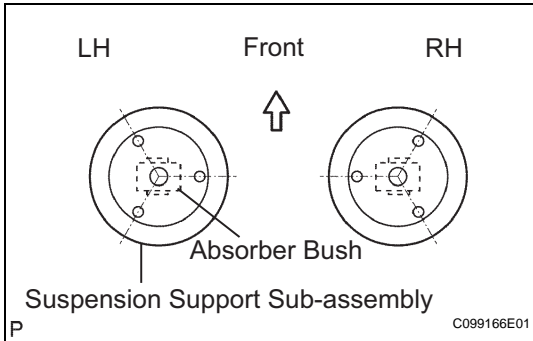
2. INSTALL FRONT COIL SPRING LH
 - (a) Using SST, compress the front coil spring LH.

SST 09727-30021 (09727-00010, 09727-00031, 09727-00060)

NOTICE:
Do not use an impact wrench. It will damage the SST.
 - (b) Install the front coil spring LH to the shock absorber assembly front LH.

HINT:
Fit the lower end of the front coil spring LH into the gap of the spring lower seat.
3. INSTALL FRONT SHOCK ABSORBER CUSHION RETAINER

4. **INSTALL FRONT SUSPENSION SUPPORT SUB-ASSEMBLY LH**
5. **INSTALL FRONT SHOCK ABSORBER CUSHION NO. 1**
6. **INSTALL FRONT SHOCK ABSORBER CUSHION RETAINER**
7. **INSTALL FRONT SUPPORT TO FRONT SHOCK ABSORBER NUT**



(a) Align the suspension support sub-assembly and the absorber bush as shown in the illustration.

(b) Tighten the new lock nut.

Torque: 25 N*m (260 kgf*cm, 18 ft.*lbf)

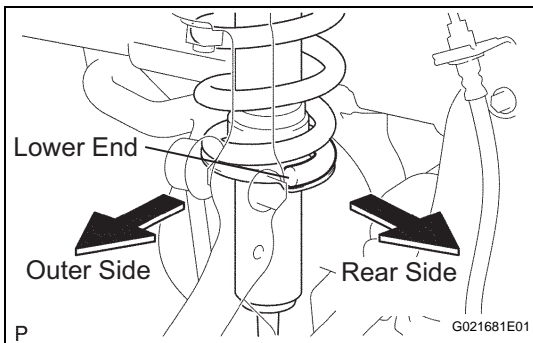
NOTICE:

Do not use an impact wrench. It will damage the shock absorber rod.

(c) Release the coil spring while checking the position of the suspension support.

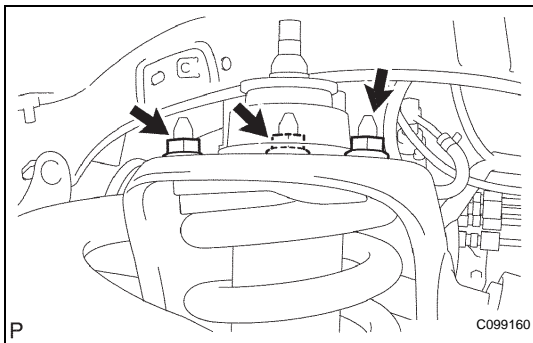
8. **TEMPORARILY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING (w/o REAS)**

(a) Install the coil spring on the body as the lower end of the coil spring faces rear side of the vehicle.

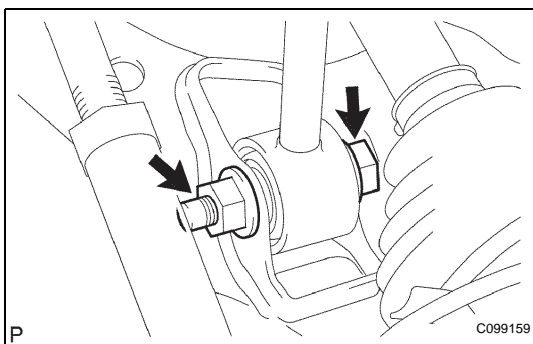


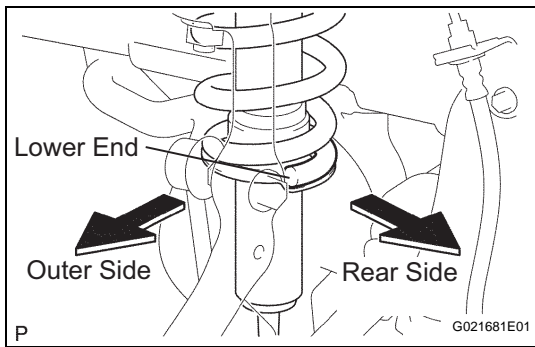
(b) Install the 3 nuts on the upper side of the front shock absorber with coil spring.

Torque: 64 N*m (650 kgf*cm, 47 ft.*lbf)



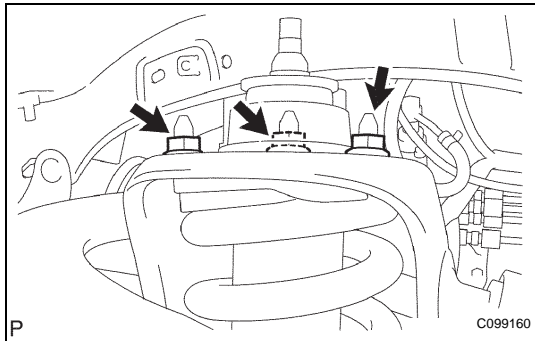
(c) Temporarily tighten the bolt, the nut and the washer as shown in the illustration.





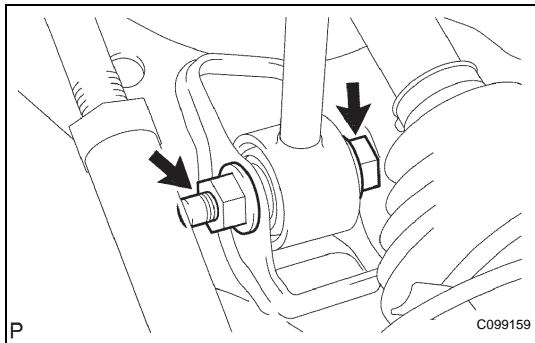
9. TEMPORARILY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING (w/ REAS)

(a) Install the coil spring on the body as the lower end of the coil spring faces rear side of the vehicle.

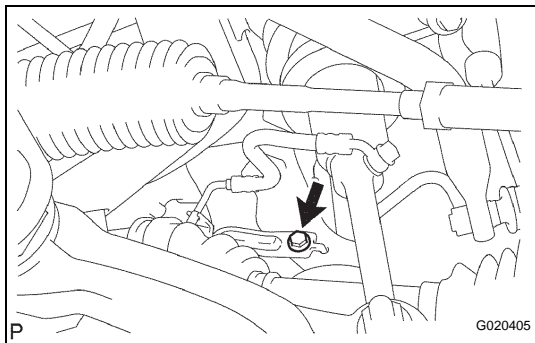


(b) Install the 3 nuts on the upper side of the front shock absorber with coil spring.

Torque: 64 N*m (650 kgf*cm, 47 ft.*lbf)



(c) Temporarily tighten the bolt, the nut and the washer as shown in the illustration.

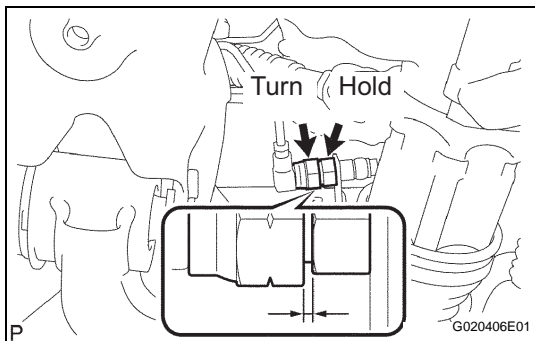


(d) Install the bolt.

Torque: 29 N*m (300 kgf*cm, 21 ft.*lbf)

NOTICE:

Be sure to fit the detents attached to the bracket into a hole on the frame side.



(e) As shown in the illustration, tighten the nut of clearance to standard value.

Clearance:

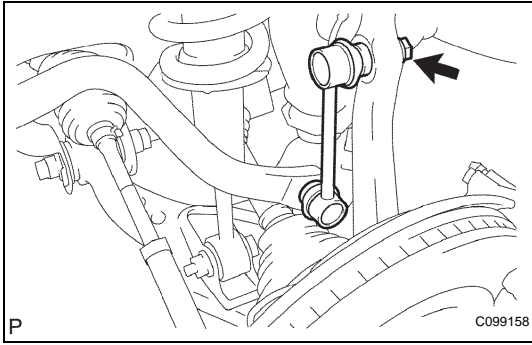
1 mm (0.04 in.)

Torque: Reference torque

25 N*m (260 kgf*cm, 18 ft.*lbf)

10. INSTALL STABILIZER BAR FRONT

11. INSTALL FRONT STABILIZER BRACKET NO. 2 LH (See page SP-29)



12. INSTALL FRONT STABILIZER BRACKET NO. 1 RH
(See page [SP-29](#))

13. INSTALL FRONT STABILIZER LINK ASSEMBLY LH

- (a) Connect the stabilizer link with the nut to the steering knuckle.

Torque: 70 N*m (710 kgf*cm, 52 ft.*lbf)

HINT:

If the ball joint turns together with the nut, use a hexagon (6 mm) wrench to hold the stud.

14. INSTALL FRONT STABILIZER LINK ASSEMBLY RH

HINT:

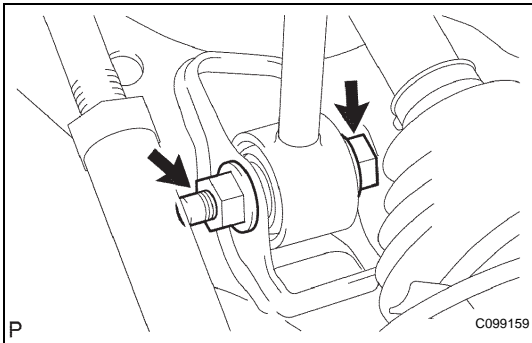
Install the RH side by the same procedures with the LH side.

15. INSTALL FRONT DISC WHEEL

Torque: 112 N*m (1,140 kgf*cm, 83 ft.*lbf)

16. STABILIZE SUSPENSION

- (a) Jack down the vehicle.
(b) Bounce the vehicle up and down several times to stabilize the suspension.



17. FULLY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING

- (a) Fully tighten the nut.

Torque: 135 N*m (1,380 kgf*cm, 100 ft.*lbf)

18. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT

HINT:

(See page [SP-4](#))