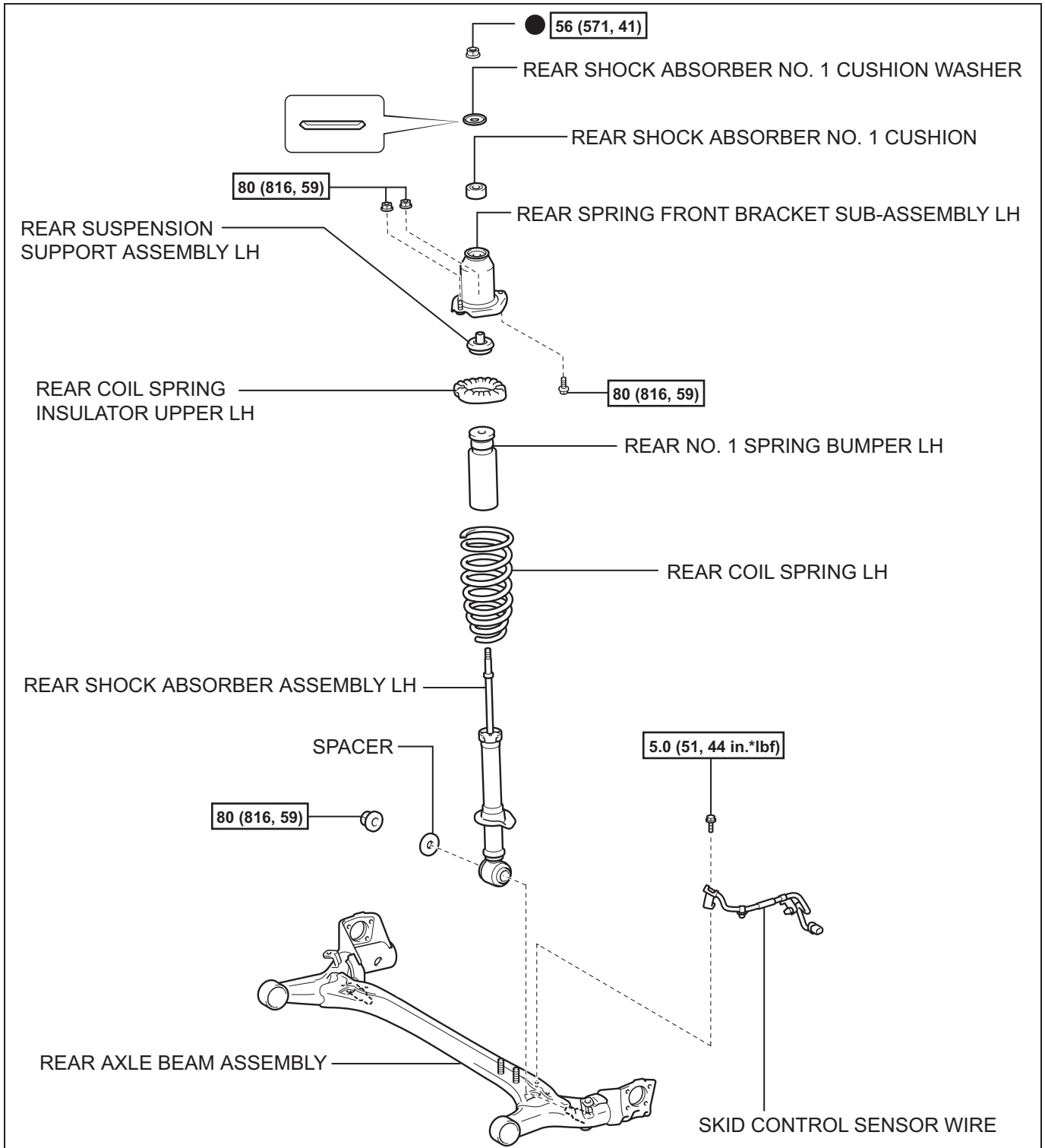


REAR SHOCK ABSORBER WITH COIL SPRING

COMPONENTS



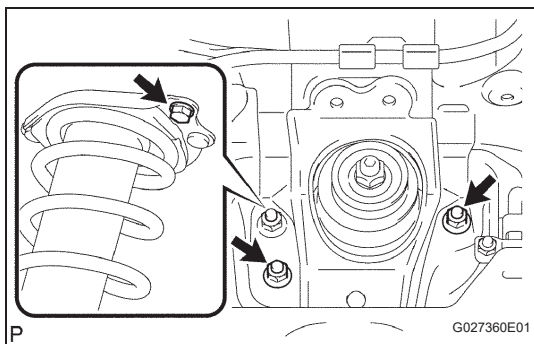
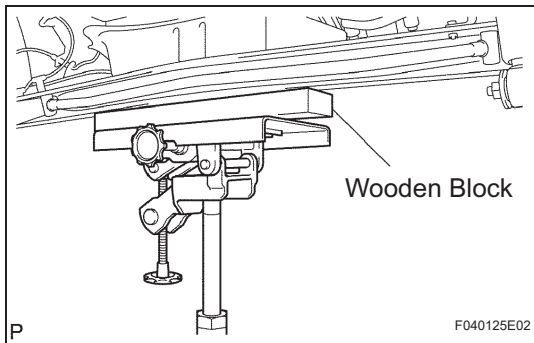
N*m (kgf*cm, ft.*lbf) : Specified torque

● Non-reusable part

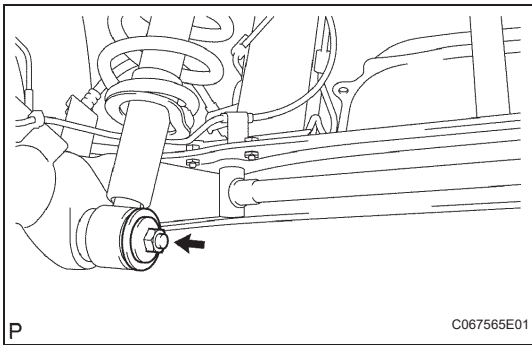
REMOVAL

1. REMOVE REAR NO. 2 FLOOR BOARD
2. REMOVE REAR DECK FLOOR BOX
3. REMOVE REAR DECK TRIM COVER (See page IR-10)
4. REMOVE TONNEAU COVER ASSEMBLY
5. REMOVE REAR SEATBACK ASSEMBLY LH (See page SE-15)
6. REMOVE REAR NO. 1 FLOOR BOARD (See page IR-10)
7. REMOVE REAR SIDE SEATBACK FRAME LH (See page IR-9)
8. REMOVE REAR NO. 4 FLOOR BOARD
9. REMOVE DECK FLOOR BOX LH
10. REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (See page IR-11)
11. REMOVE BATTERY CARRIER BRACKET (See page HB-91)
12. REMOVE REAR WHEEL
13. REMOVE REAR SHOCK ABSORBER WITH COIL SPRING

- (a) Support the rear axle beam with a jack. Insert a wooden block between the jack and the rear axle beam to prevent damage.



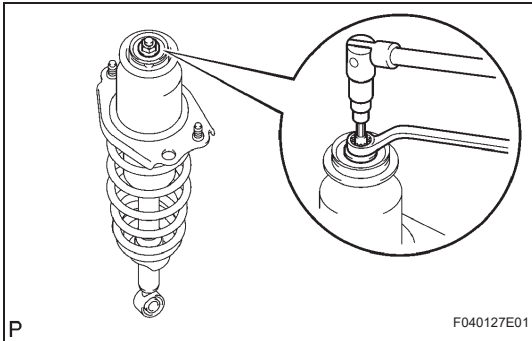
- (b) Remove the 2 nuts from the rear shock absorber with coil spring (upper side).
- (c) Remove the rear shock absorber with coil spring (upper side) bolt from the under-side of the vehicle.



- (d) Remove the nut and spacer from the rear shock absorber with coil spring (lower side).
- (e) Remove the rear shock absorber with coil spring while slowly lowering the jack.

NOTICE:

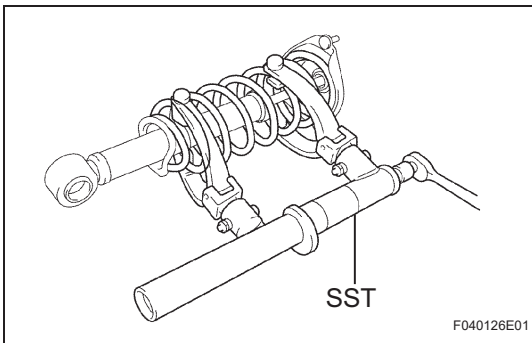
Seat the jack so that no extra load is placed on the shock absorber on the opposite side of the vehicle.

**DISASSEMBLY****1. REMOVE REAR SHOCK ABSORBER ASSEMBLY LH**

- (a) Use a 6 mm socket hexagon wrench to secure the piston rod of the shock absorber and loosen the nut.

NOTICE:

- Do not remove the nut.
- Sufficiently insert the hexagon wrench.



- (b) Attach SST to the coil spring so that the upper and lower hooks of the installed area are as wide as possible.

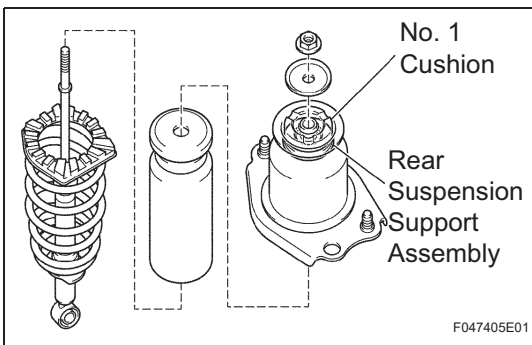
SST 09727-30021 (09727-00010, 09727-00021, 09727-00031)

- (c) Compress the coil spring until it moves freely.

NOTICE:

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

- (d) Remove the nut.

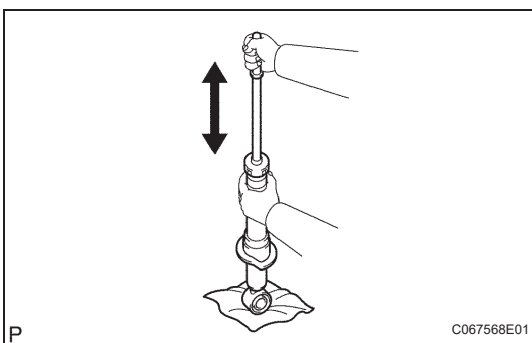


- (e) Remove the No. 1 cushion washer, No. 1 cushion, rear spring front bracket, rear suspension support, rear coil spring insulator upper and rear No. 1 spring bumper.

HINT:

The shock absorber can be replaced without removing the No. 1 cushion and rear suspension support from the rear spring front bracket.

- (f) Release SST and remove it from the coil spring after removing the coil spring from the shock absorber.

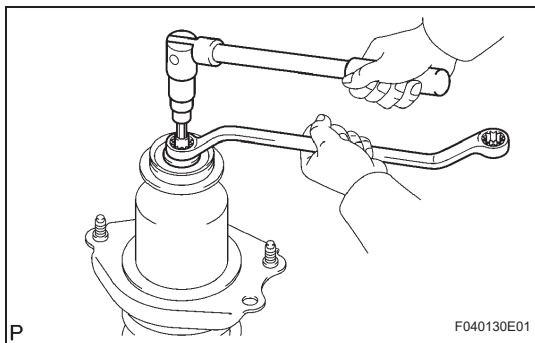
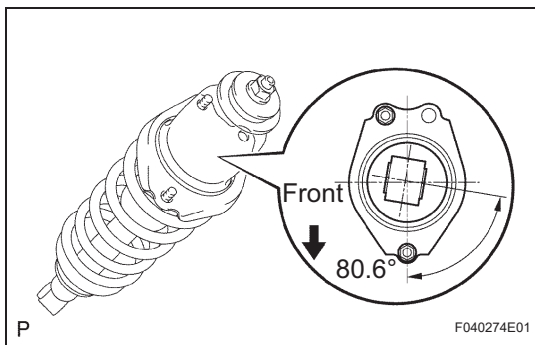
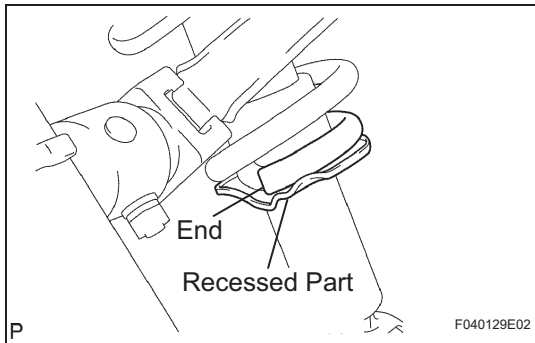
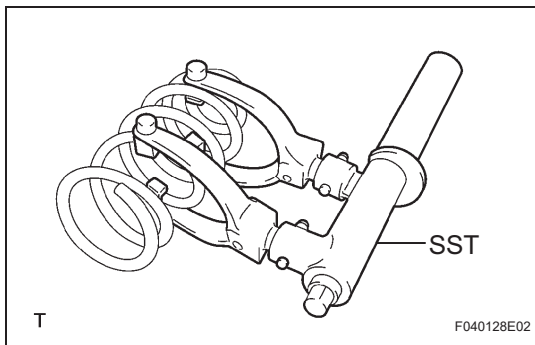
**INSPECTION****1. INSPECT REAR SHOCK ABSORBER ASSEMBLY LH**

- (a) Compress and extend the shock absorber rod, and check that there is no abnormal resistance or unusual sound.

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

NOTICE:

When disposing of the shock absorber, see DISPOSAL (see page SP-36).



REASSEMBLY

1. INSTALL REAR SHOCK ABSORBER ASSEMBLY LH

- (a) Using SST, compress the coil spring.
SST 09727-30021 (09727-00010, 09727-00021, 09727-00031)

NOTICE:

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

HINT:

The coil spring can also be installed/removed using the hydraulic spring compressor.

- (b) Fit the coil spring end into the recessed part of the shock absorber assy lower seat.
 (c) Fit the rear coil spring insulator upper to the rear spring front bracket.

- (d) Install the rear No. 1 spring bumper, rear suspension support, rear spring front bracket, No. 1 cushion and No. 1 cushion washer.

NOTICE:

- Install the rear spring front bracket so that it is aligned with the shock absorber lower bush, as shown in the illustration.
- Install the No. 1 cushion washer with the protruding portion facing down.

- (e) Use a 6 mm socket hexagon wrench to fix the shock absorber piston rod and tighten the nut.

Torque: 56 N*m (571 kgf*cm, 41 ft.*lbf)

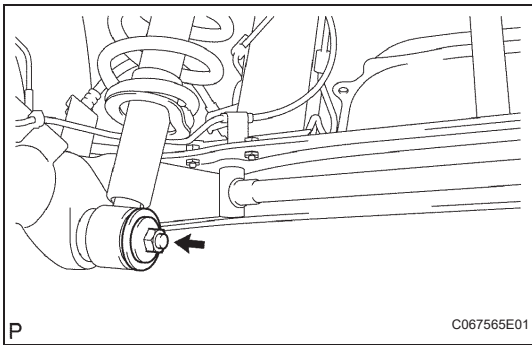
NOTICE:

Sufficiently insert the hexagon wrench.

- (f) Release SST and remove it from the coil spring.

NOTICE:

- Do not use an impact wrench. It will damage SST.
- Remove SST while confirming the direction of the rear spring front bracket.



INSTALLATION

1. INSTALL REAR SHOCK ABSORBER WITH COIL SPRING

- Install the rear shock absorber with coil spring to the rear axle beam. Place the spacer and temporarily tighten the nut.
- Install the rear shock absorber with coil spring (upper side) to the vehicle by slowly raising the rear axle beam on a jack. Insert a wooden block between the jack and the rear axle beam to prevent damage.

NOTICE:

- Do not raise the rear axle beam more than necessary.
- Securely insert the rear spring front bracket stud bolt into the vehicle.

- Tighten the bolt and 2 nuts of the rear shock absorber with coil spring (upper side).

Torque: 80 N*m (816 kgf*cm, 59 ft.*lbf)

2. INSTALL REAR WHEEL

- Install the rear wheel.
Torque: 103 N*m (1,050 kgf*cm, 76 ft.*lbf)

3. STABILIZE SUSPENSION

- After lowering the vehicle, bounce the vehicle up and down to stabilize the rear suspension.

4. FULLY TIGHTEN REAR SHOCK ABSORBER WITH COIL SPRING

- Tighten the rear shock absorber with coil spring (lower side) installation nut.

Torque: 80 N*m (816 kgf*cm, 59 ft.*lbf)

NOTICE:

Ensure the vehicle is lowered to the ground.

5. INSTALL BATTERY CARRIER BRACKET (See page [HB-97](#))

6. INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH (See page [IR-15](#))

7. INSTALL DECK FLOOR BOX LH

8. INSTALL REAR NO. 4 FLOOR BOARD

9. INSTALL REAR SIDE SEATBACK FRAME LH (See page [IR-17](#))

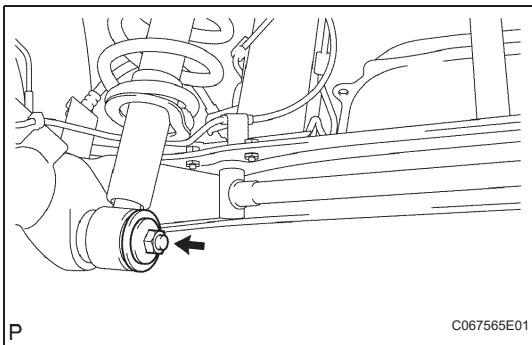
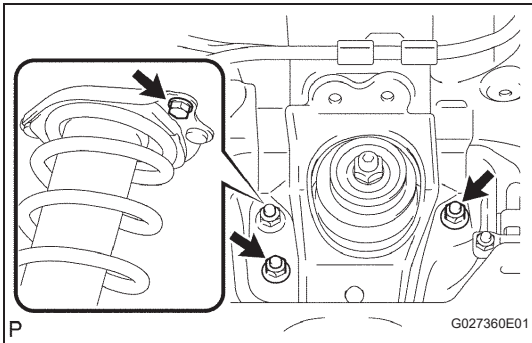
10. INSTALL REAR NO. 1 FLOOR BOARD (See page [IR-16](#))

11. INSTALL REAR SEATBACK ASSEMBLY LH (See page [SE-22](#))

12. INSTALL TONNEAU COVER ASSEMBLY

13. INSTALL REAR DECK TRIM COVER (See page [IR-16](#))

14. INSTALL REAR DECK FLOOR BOX



15. INSTALL REAR NO. 2 FLOOR BOARD**16. INSPECT REAR WHEEL ALIGNMENT**

- (a) Inspect the rear wheel alignment (see page [SP-10](#)).

17. PERFORM INITIALIZATION

- (a) Perform the initialization (see page [IN-32](#)).

NOTICE:

Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.

DISPOSAL**1. DISPOSE OF REAR SHOCK ABSORBER ASSEMBLY LH**

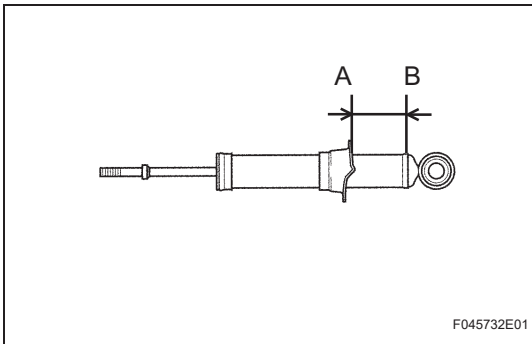
- (a) Fully extend the shock absorber rod.
(b) Make a hole in the cylinder somewhere between A and B shown in the illustration to discharge the gas inside using a drill.

CAUTION:

Be careful when drilling because shards of metal may fly about, so always use the proper safety equipment.

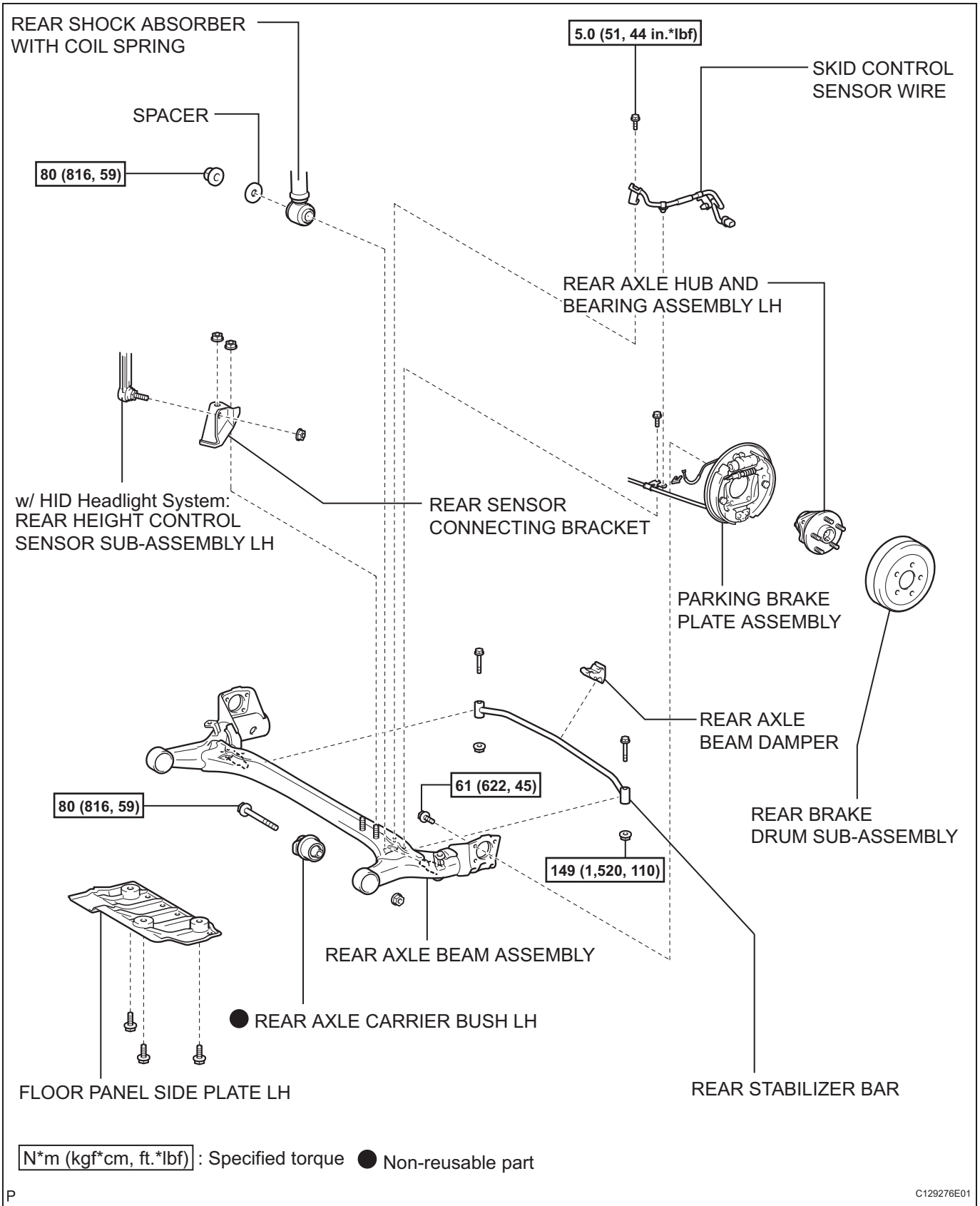
NOTICE:

The gas is colorless, odorless and non-poisonous.



REAR AXLE BEAM

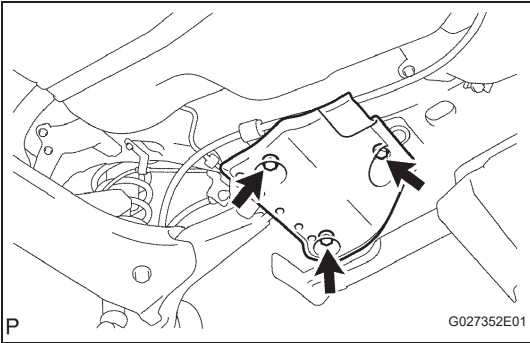
COMPONENTS



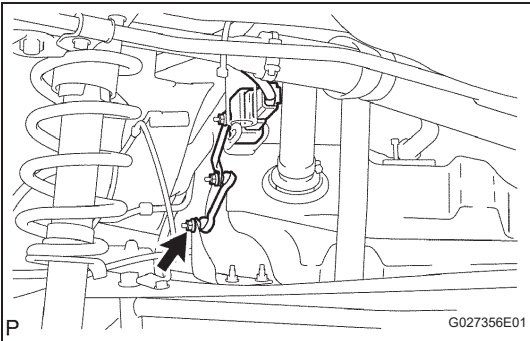
SP

REMOVAL

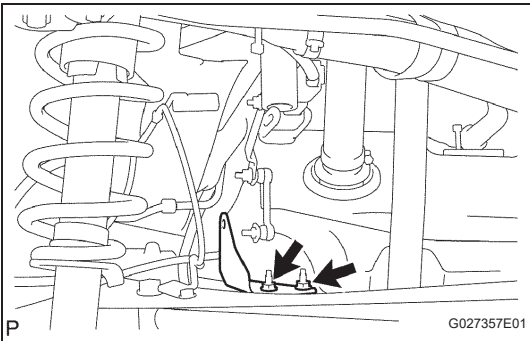
1. REMOVE REAR WHEEL
2. REMOVE FLOOR PANEL SIDE PLATE LH
(a) Remove the 3 bolts and floor panel side plate.
3. REMOVE FLOOR PANEL SIDE PLATE RH
(a) Remove the 3 bolts and floor panel side plate.



4. REMOVE REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY LH (w/ HID Headlight System)
(a) Remove the nut and height control sensor.



5. REMOVE REAR SENSOR CONNECTING BRACKET (w/ HID Headlight System)
(a) Remove the 2 nuts and sensor connecting bracket.



6. REMOVE REAR BRAKE DRUM SUB-ASSEMBLY (See page [BR-47](#))

7. DISCONNECT SKID CONTROL SENSOR WIRE
(a) Remove the 2 bolts and clip, and disconnect the skid control sensor wire and parking brake cable from the rear axle beam.

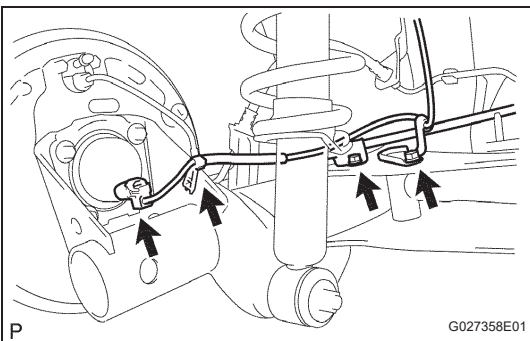
NOTICE:

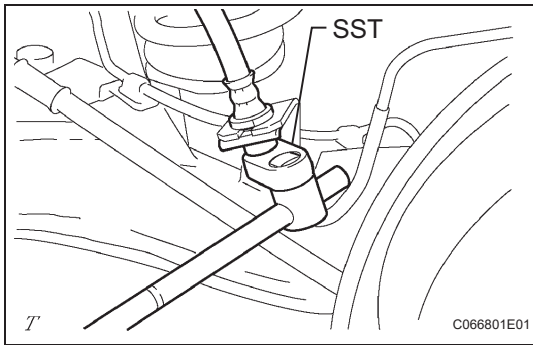
- Ensure no foreign matter is on the end of the skid control sensor wire.
- Ensure that the skid control sensor wire is disconnected from the rear axle beam.

HINT:

Use the same procedures for the RH side and LH side.

8. REMOVE REAR AXLE BEAM DAMPER (See page [SP-44](#))
9. REMOVE REAR STABILIZER BAR (See page [SP-45](#))



**10. DISCONNECT REAR NO. 4 BRAKE TUBE**

- (a) Using SST, disconnect the rear brake tube from the flexible hose.

SST 09023-00101

NOTICE:

Do not damage the rear brake tube or flexible hose.

- (b) Remove the clip.

11. DISCONNECT REAR NO. 3 BRAKE TUBE**HINT:**

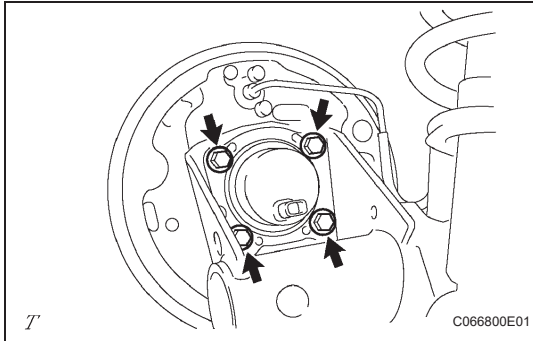
Use the same procedures as the rear No. 4 brake tube.

12. REMOVE REAR AXLE HUB AND BEARING ASSEMBLY LH

- (a) Remove the 4 bolts. Remove the axle hub and bearing and parking brake plate from the rear axle beam.

NOTICE:

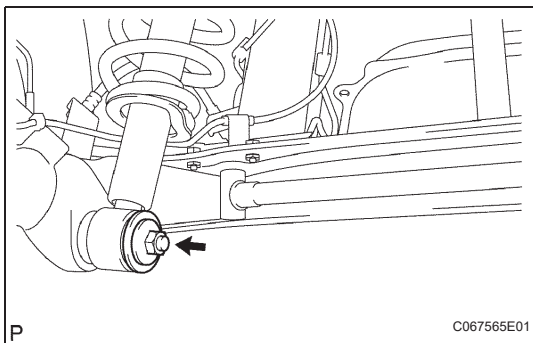
- Do not twist the parking brake cable.
- Use rope, etc. to suspend the parking brake plate.

**13. REMOVE REAR AXLE HUB AND BEARING ASSEMBLY RH****HINT:**

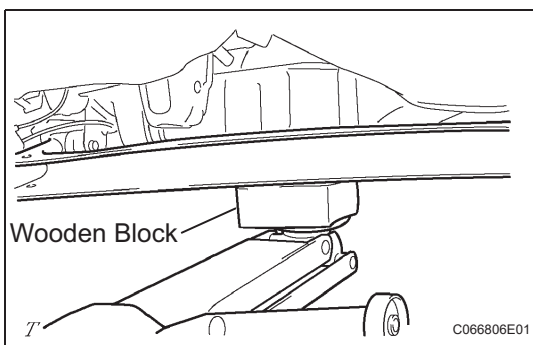
Use the same procedures for the RH side and LH side.

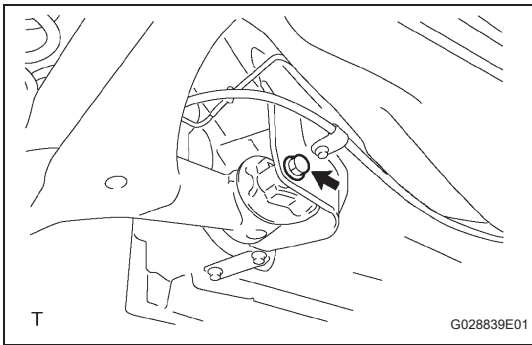
14. DISCONNECT REAR SHOCK ABSORBER WITH COIL SPRING

- (a) Remove the 2 nuts from the left and right sides.
 (b) Disconnect the rear shock absorber with coil springs (lower side) from the rear axle beam.

**15. REMOVE REAR AXLE BEAM ASSEMBLY**

- (a) Support the rear axle beam with a jack. Insert a wooden block between the jack and the center of the rear axle beam to prevent damage.





- (b) Remove the 2 bolts and 2 nuts from the left and right sides.

NOTICE:

Keep the nut from rotating when removing the bolt.

- (c) Remove the rear axle beam by slowly lowering the jack.

NOTICE:

Ensure that the skid control sensor wire is completely disconnected from the rear axle beam.

DISASSEMBLY**1. REMOVE REAR AXLE CARRIER BUSH LH**

- Place a matchmark on the rear axle beam after aligning it with the bush recess.
- Make 2 bends in the rim of the bush using a chisel and hammer.
- Using SST, remove the bush from the rear axle beam.

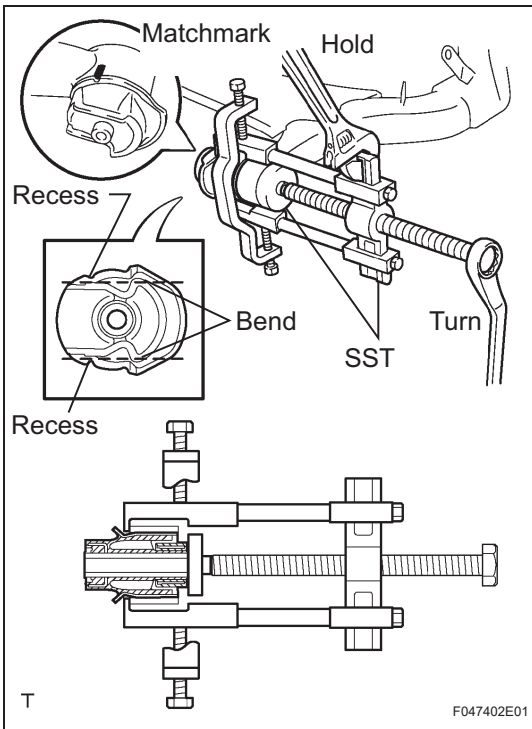
SST 09950-40011 (09951-04020, 09952-04010, 09953-04030, 09954-04020, 09955-04051, 09957-04010, 09958-04011), 09950-60010 (09951-00630)

NOTICE:

- Do not erase the matchmark on the rear axle beam when removing the bush.
- Apply chassis black if the rear axle beam is scratched.

2. REMOVE REAR AXLE CARRIER BUSH RH**HINT:**

Use the same procedures for the RH side and LH side.



REASSEMBLY

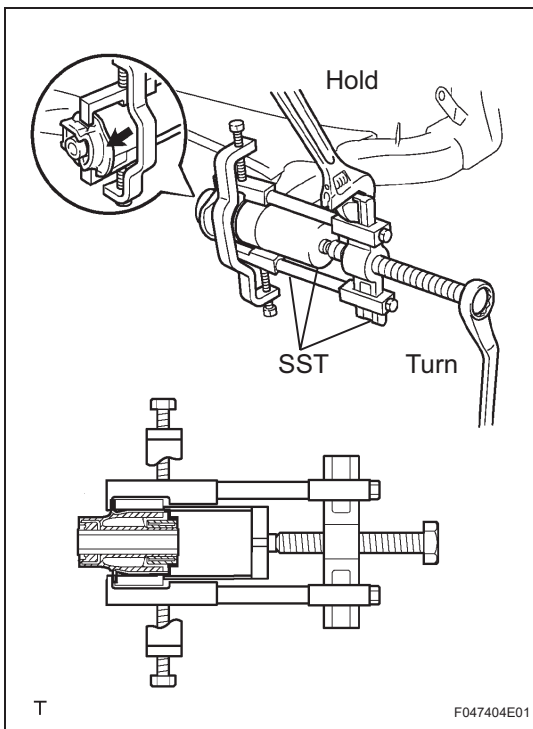
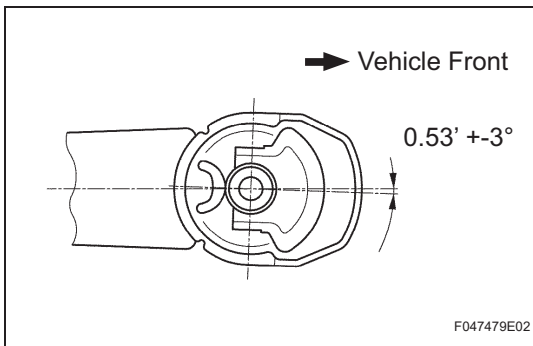
1. INSTALL REAR AXLE CARRIER BUSH LH

- (a) When replacing only the bush:
- Temporarily install a new bush recess by aligning it with the matchmark on the rear axle beam.

NOTICE:

Install the bush in the same direction as before it was removed.

- (b) When replacing the rear axle beam:
- Temporarily install a new bush as shown in the illustration.



- (c) Using SST, install the bush to the rear axle beam.
SST 09950-40011 (09951-04020, 09952-04010, 09953-04030, 09954-04020, 09955-04051, 09957-04010, 09958-04011), 09950-60010 (09951-00620), 09710-04101

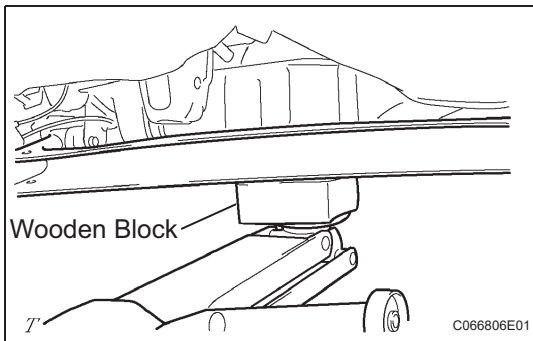
NOTICE:

- Hang the claw of SST to the bush firmly.
- Do not damage the rubber sections indicated by the arrow in the illustration when installing the bush.

2. INSTALL REAR AXLE CARRIER BUSH RH

HINT:

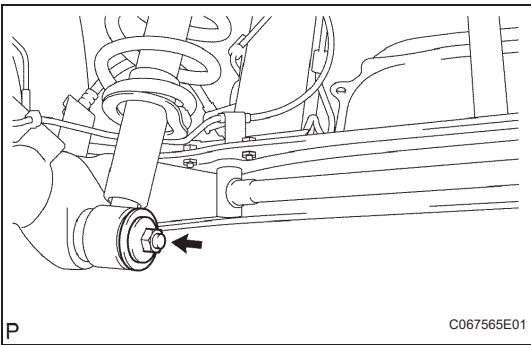
Use the same procedures for the RH side and LH side.



INSTALLATION

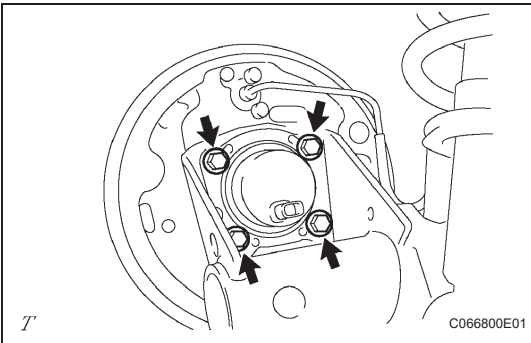
1. TEMPORARILY TIGHTEN REAR AXLE BEAM ASSEMBLY

- (a) Support the rear axle beam with a jack. Insert a wooden block between the jack and the center of the rear axle beam to prevent damage.
- (b) Slowly raise the jack to install the rear axle beam on the vehicle. Insert the 2 bolts from the inner side of the vehicle and temporarily tighten them with the 2 nuts (1 nut and bolt each for the left and right sides).



2. TEMPORARILY TIGHTEN REAR SHOCK ABSORBER WITH COIL SPRING

- (a) Install the left and right side rear shock absorber with coil spring (lower side) to the rear axle beam. Temporarily tighten the nuts.

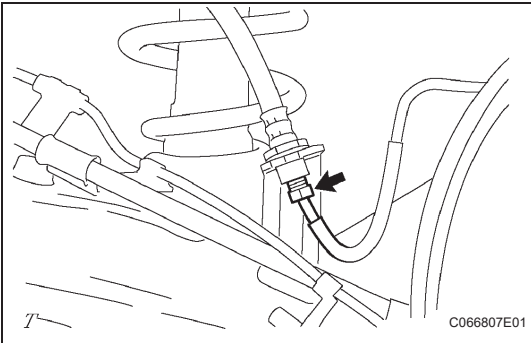


3. INSTALL REAR AXLE HUB AND BEARING ASSEMBLY LH

- (a) Install the parking brake plate and the axle hub and bearing to the rear axle beam with the 4 bolts.
Torque: 61 N*m (622 kgf*cm, 45 ft.*lbf)

4. INSTALL REAR AXLE HUB AND BEARING ASSEMBLY RH

- HINT:**
Use the same procedures for the RH side and LH side.



5. CONNECT REAR NO. 4 BRAKE TUBE

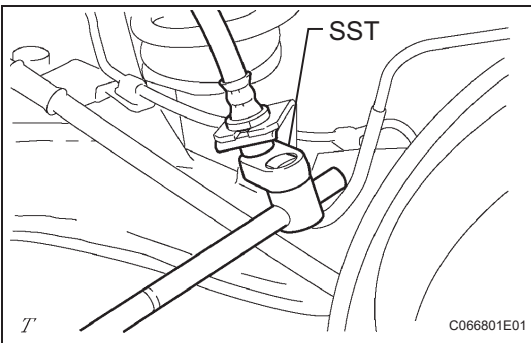
- (a) Temporarily tighten the rear brake tube and flexible hose.

NOTICE:

- Do not damage the rear brake tube or flexible hose.
- Replace the rear brake tube and flexible hose with new parts if they are damaged.

- (b) Install the rear brake tube to the rear axle beam and secure it with the clip.

- (c) Fully tighten the rear brake tube using SST.
SST 09023-00101
Torque: 15 N*m (155 kgf*cm, 11 ft.*lbf)



6. CONNECT REAR NO. 3 BRAKE TUBE

- HINT:**
Use the same procedures as the rear No. 4 brake tube.

7. INSTALL REAR STABILIZER BAR (See page SP-45)

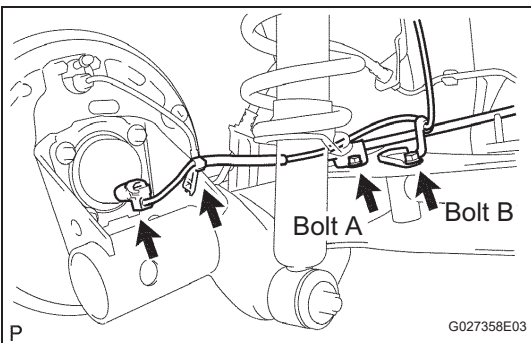
8. INSTALL REAR AXLE BEAM DAMPER (See page SP-45)

9. CONNECT SKID CONTROL SENSOR WIRE

- (a) Install the skid control sensor wire and parking brake cable to the rear axle beam using the 2 bolts and clip.
Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf) for bolt A
5.0 N*m (51 kgf*cm, 44 in.*lbf) for bolt B

NOTICE:

- Do not twist the skid control sensor wire while installing it.



HINT:

Use the same procedures for the RH side and LH side.

10. INSTALL REAR BRAKE DRUM SUB-ASSEMBLY (See page BR-53)

11. INSTALL FRONT WHEEL

- (a) Install the rear wheel.

Torque: 103 N*m (1,050 kgf*cm, 76 ft.*lbf)

12. STABILIZE SUSPENSION

- (a) After jacking down the vehicle, bounce the vehicle up and down to stabilize the rear suspension.

13. FULLY TIGHTEN REAR AXLE BEAM ASSEMBLY

- (a) Hold the nut and rotate the bolt to fully tighten the rear axle beam on the LH side.

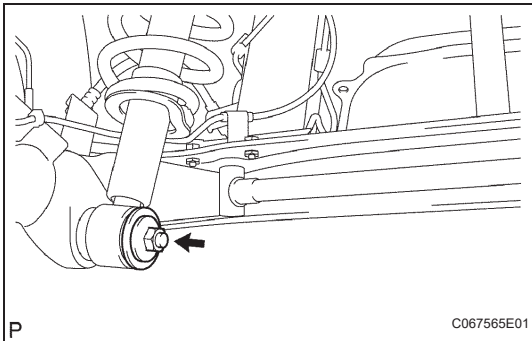
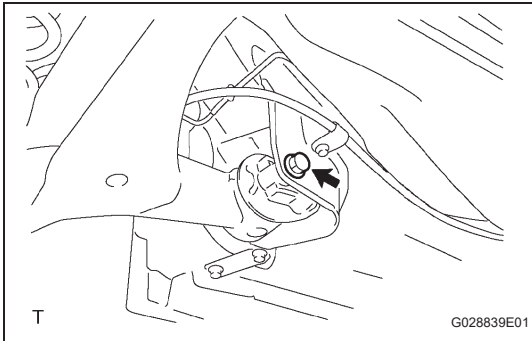
Torque: 85 N*m (867 kgf*cm, 63 ft.*lbf)

NOTICE:

Ensure the vehicle is lowered to the ground.

HINT:

Use the same procedures for the RH side and LH side.



14. FULLY TIGHTEN REAR SHOCK ABSORBER WITH COIL SPRING

- (a) Install the rear shock absorber with coil spring (lower side) and tighten the nut.

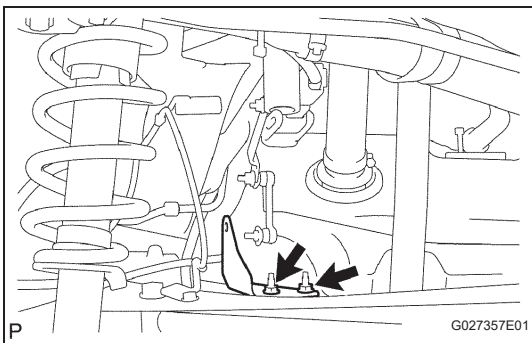
Torque: 80 N*m (816 kgf*cm, 59 ft.*lbf)

NOTICE:

Ensure the vehicle is lowered to the ground.

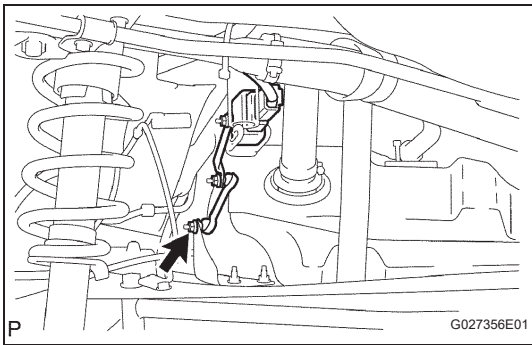
HINT:

Use the same procedures for the RH side and LH side.



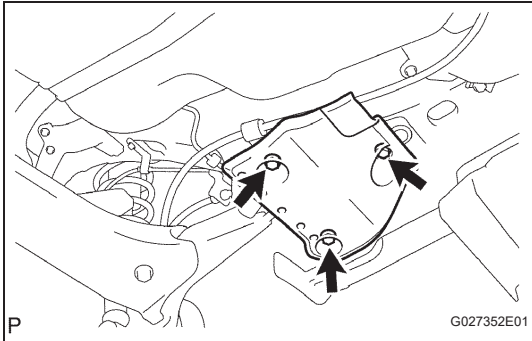
15. INSTALL REAR SENSOR CONNECTING BRACKET (w/ HID Headlight System)

- (a) Install the sensor connecting bracket with the 2 nuts.



16. INSTALL REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY LH (w/ HID Headlight System)

- (a) Install the height control sensor with the nut.



17. INSTALL FLOOR PANEL SIDE PLATE LH

- (a) Install the floor panel side plate with the 3 bolts.

18. INSTALL FLOOR PANEL SIDE PLATE RH

- (a) Install the floor panel side plate with the 3 bolts.

19. BLEED BRAKE LINE

- (a) Bleed brake line (see page [BR-3](#)).

20. INSPECT BRAKE FLUID

21. INSPECT REAR WHEEL ALIGNMENT

- (a) Inspect the rear wheel alignment (see page [SP-10](#)).

22. PERFORM INITIALIZATION

- (a) Perform the initialization (see page [IN-32](#)).

NOTICE:

Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.

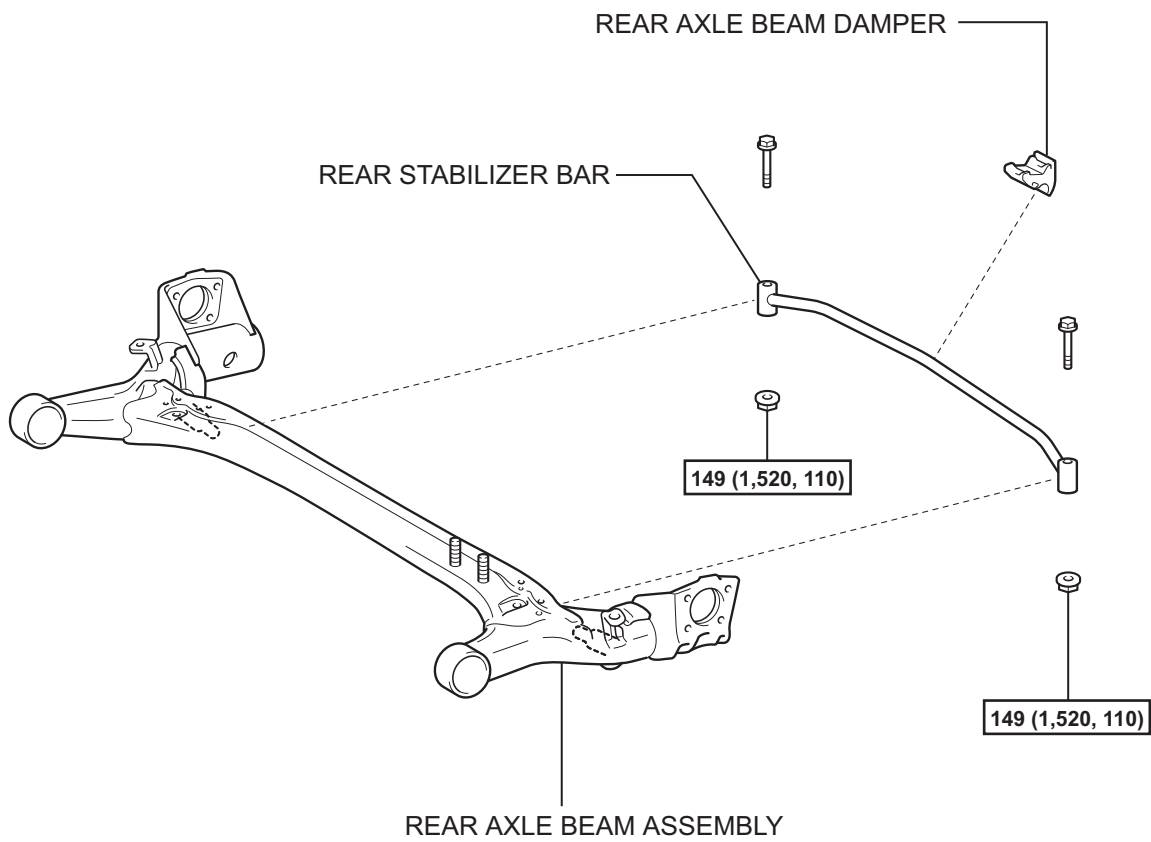
23. ADJUST HEADLIGHT AIM ONLY (See page [LI-80](#))

24. CHECK SPEED SENSOR SIGNAL

- (a) Check the speed sensor signal (see page [BC-37](#)).

REAR STABILIZER BAR

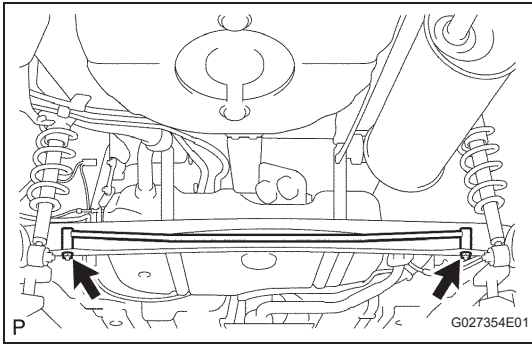
COMPONENTS



N*m (kgf*cm, ft.*lbf) : Specified torque

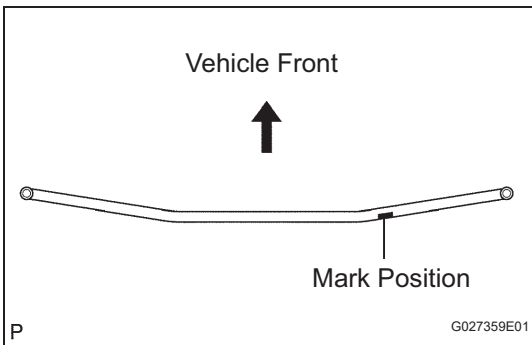
REMOVAL

1. **REMOVE REAR AXLE BEAM DAMPER**
 - (a) Remove the rear axle beam damper from the rear axle beam.
2. **REMOVE REAR STABILIZER BAR**
 - (a) Remove the 2 bolts, 2 nuts and stabilizer bar.



INSTALLATION

1. **INSTALL REAR STABILIZER BAR**
 - (a) Install the stabilizer bar so that the mark position faces towards the vehicle's rear right. Hold the bolts and tighten the nuts.
Torque: 149 N*m (1,520 kgf*cm, 110 ft.*lbf)



2. **INSTALL REAR AXLE BEAM DAMPER**
 - (a) Install the rear axle beam damper to the center of the rear axle beam.

