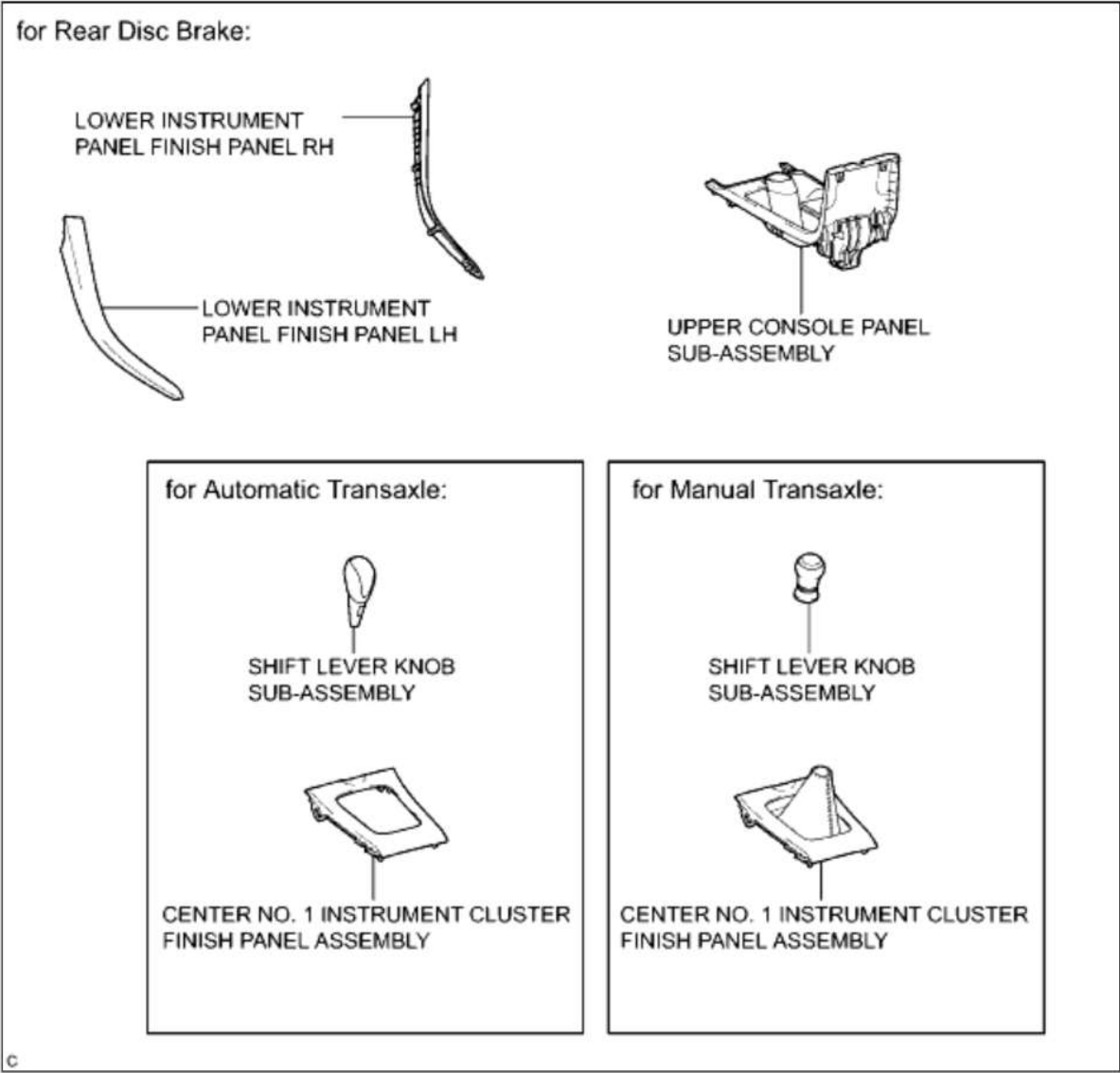


Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002PCM000X
Title: REAR SUSPENSION: REAR AXLE BEAM: COMPONENTS (2010 Corolla)		

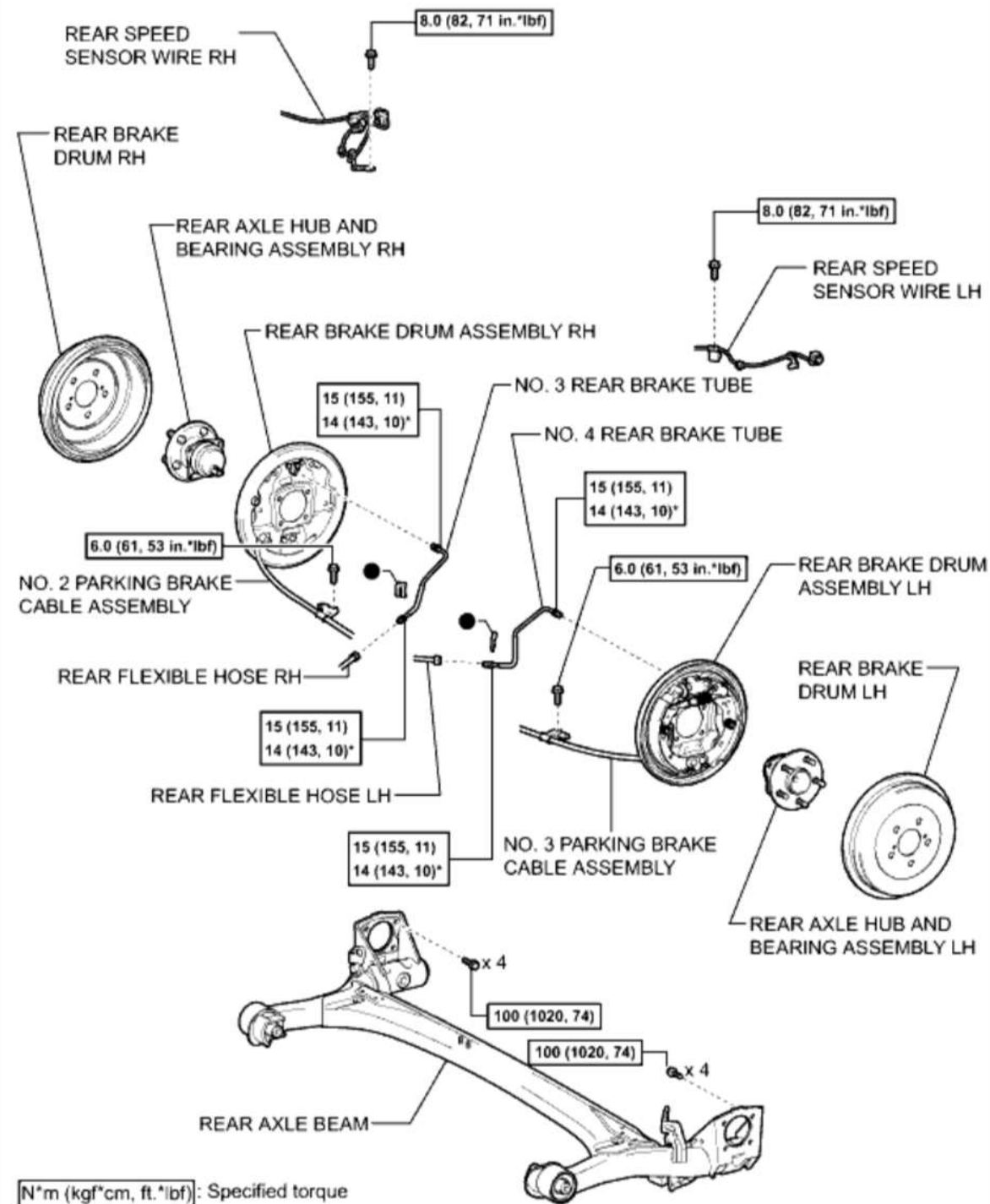
COMPONENTS

ILLUSTRATION



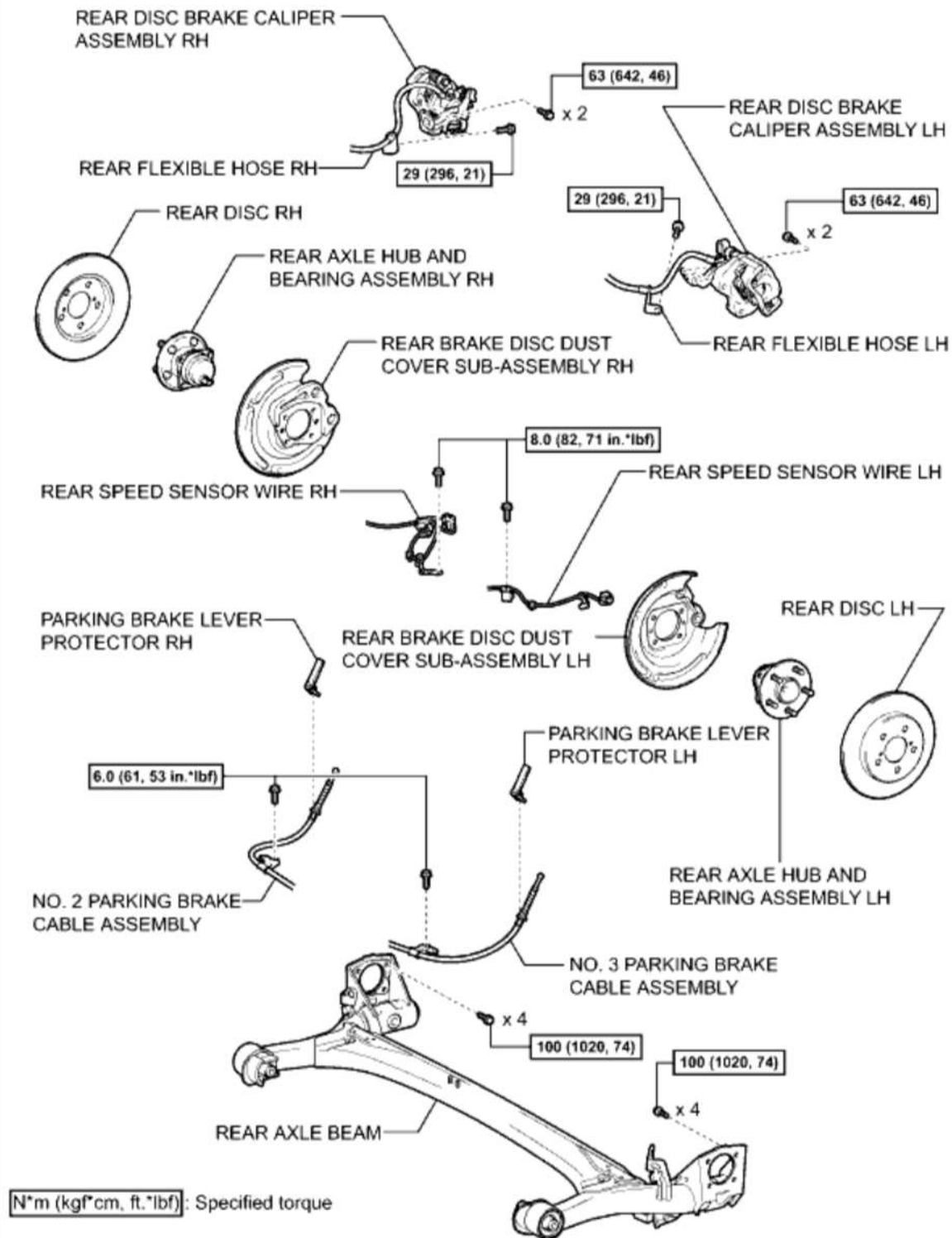
ILLUSTRATION

for Rear Drum Brake:

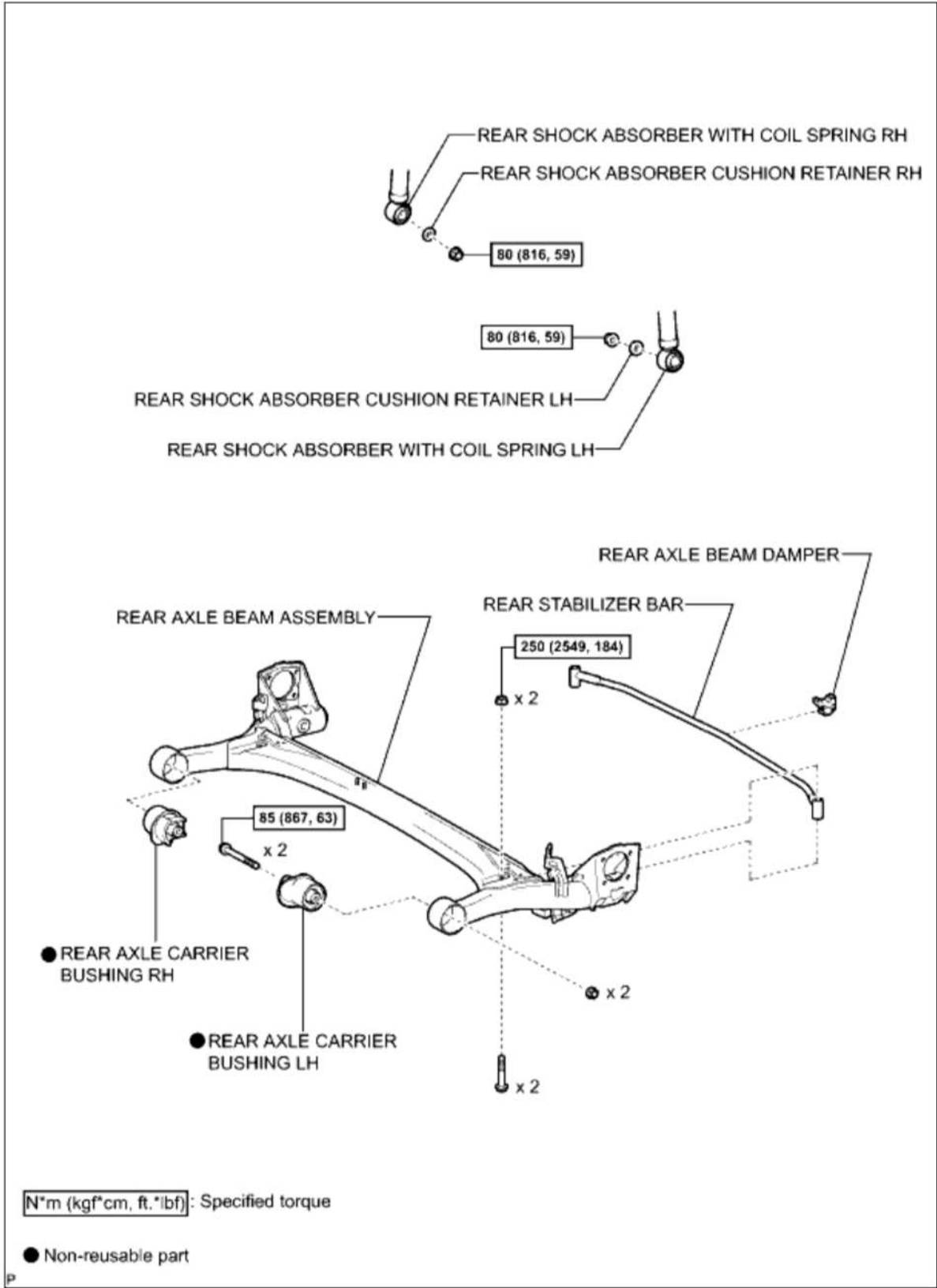


ILLUSTRATION

for Rear Disc Brake:



ILLUSTRATION



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000WRG012X
Title: REAR SUSPENSION: REAR AXLE BEAM: REMOVAL (2010 Corolla)		

REMOVAL

NOTICE:

For vehicles equipped with VSC, if the wheel alignment has been adjusted, and if suspension or underbody components have been removed/installed or replaced, be sure to perform the following initialization procedure in order for the system to function normally:

1. Disconnect the cable from the negative (-) battery terminal for more than 2 seconds.
2. Reconnect the cable to the negative (-) battery terminal.
3. Perform zero point calibration of the yaw rate and acceleration sensor and test mode inspection.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

2. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL LH (for Rear Disc Brake)

3. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL RH (for Rear Disc Brake)

4. REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY (for Rear Disc Brake)

HINT:

- for Manual Transaxle .
- for Automatic Transaxle .

5. REMOVE CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Rear Disc Brake)

HINT:

- for Manual Transaxle .
- for Automatic Transaxle .

6. REMOVE UPPER CONSOLE PANEL SUB-ASSEMBLY (for Rear Disc Brake)

7. LOOSEN PARKING BRAKE CABLE (for Rear Disc Brake)

8. REMOVE REAR WHEELS

9. DRAIN BRAKE FLUID (for Rear Drum Brake)

10. DISCONNECT REAR SPEED SENSOR WIRE LH (for Rear Drum Brake)

11. DISCONNECT REAR SPEED SENSOR WIRE RH (for Rear Drum Brake)

HINT:

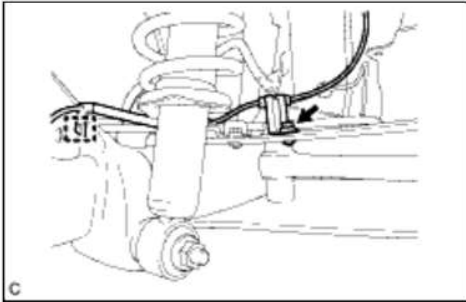
Perform the same procedure as the LH side.

12. DISCONNECT REAR SPEED SENSOR WIRE LH (for Rear Disc Brake)

13. DISCONNECT REAR SPEED SENSOR WIRE RH (for Rear Disc Brake)

HINT:

Perform the same procedure as the LH side.



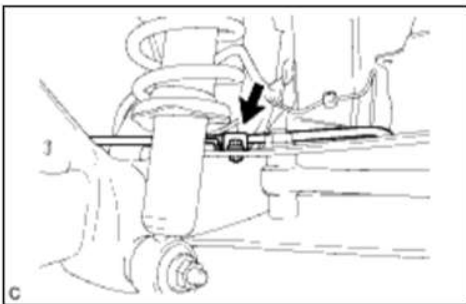
14. SEPARATE REAR SPEED SENSOR WIRE LH

- (a) Remove the bolt.
- (b) Disengage the clamp and separate the rear speed sensor wire from the rear axle beam.

15. SEPARATE REAR SPEED SENSOR WIRE RH

HINT:

Perform the same procedure as the LH side.



16. SEPARATE NO. 3 PARKING BRAKE CABLE ASSEMBLY

- (a) Remove the bolt and separate the No. 3 parking brake cable assembly.

17. SEPARATE NO. 2 PARKING BRAKE CABLE ASSEMBLY

HINT:

Perform the same procedure as the No. 3 parking brake cable assembly.

18. REMOVE REAR BRAKE DRUM LH (for Rear Drum Brake)



19. REMOVE REAR BRAKE DRUM RH (for Rear Drum Brake)

HINT:

Perform the same procedure as the LH side.

20. REMOVE PARKING BRAKE LEVER PROTECTOR LH (for Rear Disc Brake)

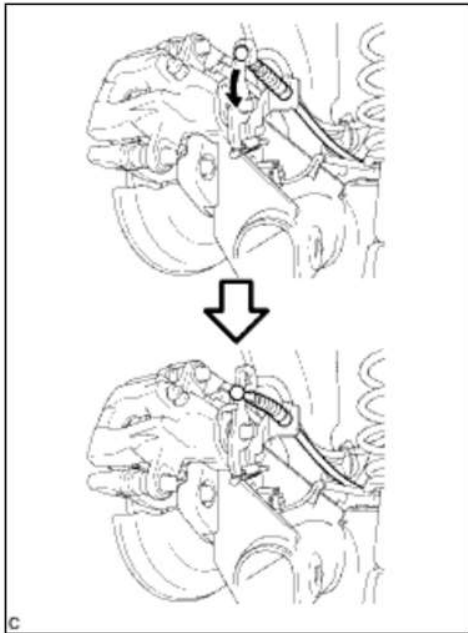


21. REMOVE PARKING BRAKE LEVER PROTECTOR RH (for Rear Disc Brake)

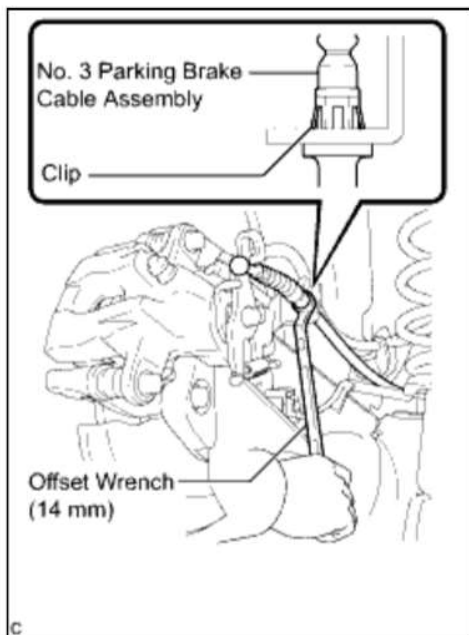
HINT:

Perform the same procedure as the LH side.

22. DISCONNECT NO. 3 PARKING BRAKE CABLE ASSEMBLY (for Rear Disc Brake)



(a) Separate the No. 3 parking brake cable assembly from the rear disc brake cylinder assembly.



(b) Remove the No. 3 parking brake cable assembly.

HINT:

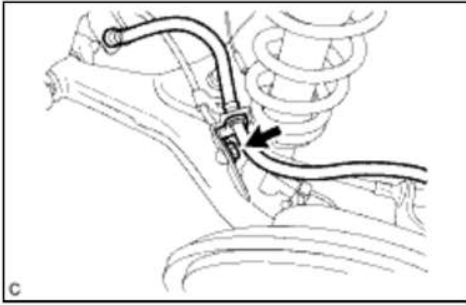
Insert an offset wrench (14 mm) at the base of the No. 3 parking brake cable assembly as shown in the illustration to disengage the clip. Pull out the No. 3 parking brake cable assembly from the rear disc brake cylinder assembly.

23. DISCONNECT NO. 2 PARKING BRAKE CABLE ASSEMBLY (for Rear Disc Brake)

HINT:

Perform the same procedure as the No. 3 parking brake cable assembly.

24. SEPARATE REAR FLEXIBLE HOSE LH (for Rear Disc Brake)



- (a) Remove the bolt and separate the rear flexible hose LH from the rear axle beam.

25. SEPARATE REAR FLEXIBLE HOSE RH (for Rear Disc Brake)

HINT:

Perform the same procedure as the LH side.

26. SEPARATE REAR DISC BRAKE CALIPER ASSEMBLY LH (for Rear Disc Brake) INFO

27. SEPARATE REAR DISC BRAKE CALIPER ASSEMBLY RH (for Rear Disc Brake)

HINT:

Perform the same procedure as the LH side.

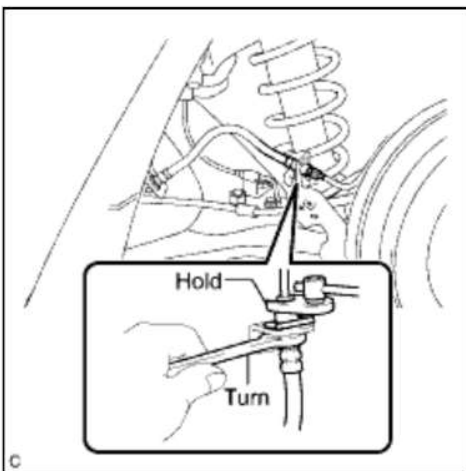
28. REMOVE REAR DISC LH (for Rear Disc Brake) INFO

29. REMOVE REAR DISC RH (for Rear Disc Brake)

HINT:

Perform the same procedure as the LH side.

30. SEPARATE REAR FLEXIBLE HOSE LH (for Rear Drum Brake)



- (a) Using a union nut wrench (10 mm), separate the No. 4 rear brake tube while holding the rear flexible hose with a wrench.

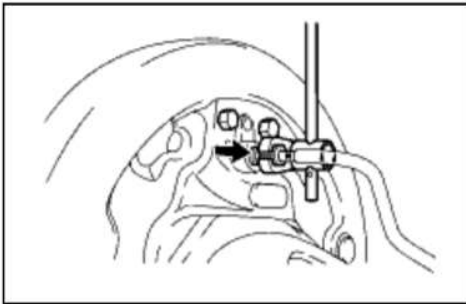
NOTICE:

- Do not bend or damage the brake line.
- Do not allow any foreign matter such as dirt and dust to enter the brake line from the clip or bracket.

- (b) Remove the clip and disconnect the rear flexible hose LH.

31. SEPARATE REAR FLEXIBLE HOSE RH (for Rear Drum Brake)**HINT:**

Perform the same procedure as the LH side.

32. REMOVE NO. 4 REAR BRAKE TUBE (for Rear Drum Brake)

(a) Using a union nut wrench (10 mm), remove the No. 4 rear brake tube.

33. REMOVE NO. 3 REAR BRAKE TUBE (for Rear Drum Brake)**HINT:**

Perform the same procedure as the No. 4 rear brake tube.

34. REMOVE REAR AXLE HUB AND BEARING ASSEMBLY LH (for Rear Drum Brake)**35. REMOVE REAR AXLE HUB AND BEARING ASSEMBLY RH (for Rear Drum Brake)****HINT:**

Perform the same procedure as the LH side.

36. REMOVE REAR AXLE HUB AND BEARING ASSEMBLY LH (for Rear Disc Brake)**37. REMOVE REAR AXLE HUB AND BEARING ASSEMBLY RH (for Rear Disc Brake)****HINT:**

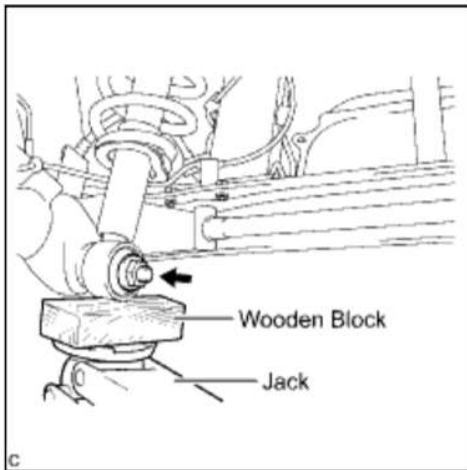
Perform the same procedure as the LH side.

38. REMOVE REAR AXLE BEAM DAMPER**39. REMOVE REAR STABILIZER BAR****40. SEPARATE REAR SHOCK ABSORBER WITH COIL SPRING LH**

(a) Support the rear axle beam assembly using a jack and wooden block.

NOTICE:

Do not excessively jack up the rear axle beam assembly.



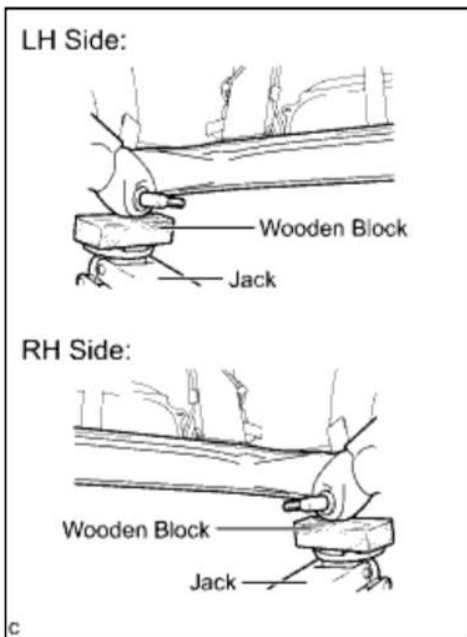
- (b) Remove the nut and rear No. 1 shock absorber retainer.
- (c) Separate the rear shock absorber with coil spring LH (lower side).

41. SEPARATE REAR SHOCK ABSORBER WITH COIL SPRING RH

HINT:

Perform the same procedure as the LH side.

42. REMOVE REAR AXLE BEAM ASSEMBLY

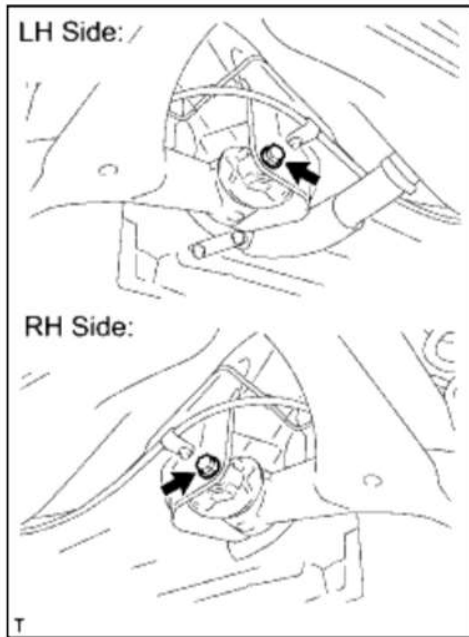


- (a) Support the rear axle beam assembly using 2 jacks and 2 wooden blocks.

- (b) Remove the 2 bolts, 2 nuts, and rear axle beam assembly.

NOTICE:

Since stopper nuts are used, loosen the bolts.



43. REMOVE REAR AXLE CARRIER BUSHING LH

- Place matchmarks on the 2 notches of the rear axle carrier bushing and rear axle beam assembly.
- Using a chisel and hammer, bend the 2 portions of the rear axle carrier bushing rib.

NOTICE:

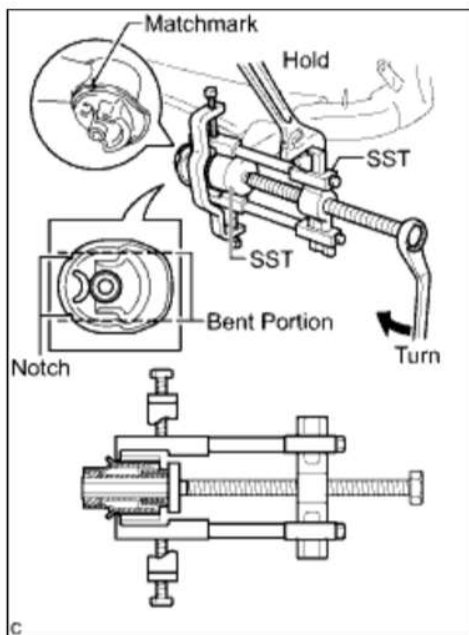
- When removing the rear axle carrier bushing, do not erase the matchmarks on the rear axle beam assembly.
- If the axle beam has been scratched, apply the paint to the axle beam assembly.

- Using SST, remove the rear axle carrier bushing from the rear axle beam assembly.

SST: 09950-40011

SST: 09950-60010

09951-04020
09952-04010
09953-04030
09954-04020
09955-04051
09957-04010
09958-04011
09951-00630



44. REMOVE REAR AXLE CARRIER BUSHING RH

HINT:

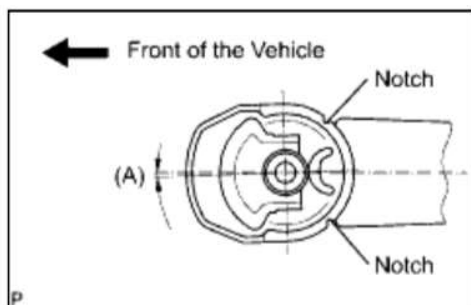
Perform the same procedure as the LH side.



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000WRD014X
Title: REAR SUSPENSION: REAR AXLE BEAM: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL REAR AXLE CARRIER BUSHING LH



- (a) Align the arrow mark on a new rear axle carrier bushing LH with the matchmark on the rear axle beam assembly and temporarily install the rear axle carrier bushing LH to the rear axle beam assembly. (Perform this procedure when reusing the rear axle beam assembly.)

NOTICE:

Install the rear axle carrier bushing LH in the same direction as the removed bushing.

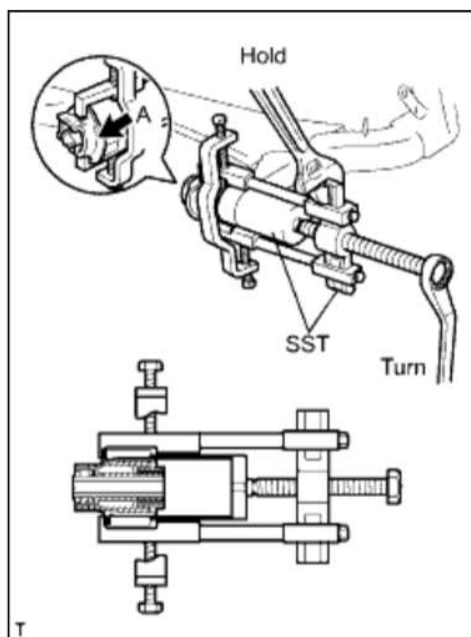
- (b) Temporarily install a new rear axle carrier bushing LH to the position shown in the illustration. (Perform this procedure when replacing with a new rear axle beam assembly.)

(A):

$0^{\circ}53' \pm 3^{\circ}$ ($0.88^{\circ} \pm 3^{\circ}$)

NOTICE:

Install the rear axle carrier bushing LH in the same direction as the removed bushing.



- (c) Using SST, install the rear axle carrier bushing LH to the rear axle beam assembly.

SST: 09710-04101

SST: 09950-40011

09951-04020

09952-04010

09953-04030

09954-04020

09955-04051

09957-04010

09958-04011

SST: 09950-60010

09951-00620

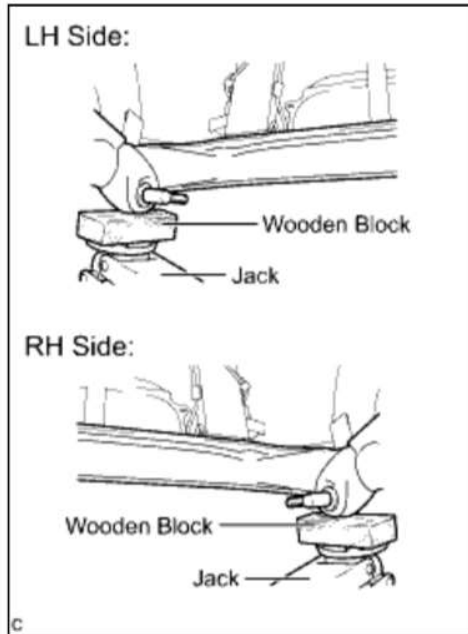
NOTICE:

- Hang the claws of SST to the bushing deeply and firmly.
- Do not scratch the rubber portion (A) of the bushing.
- Do not deform the bushing rib.

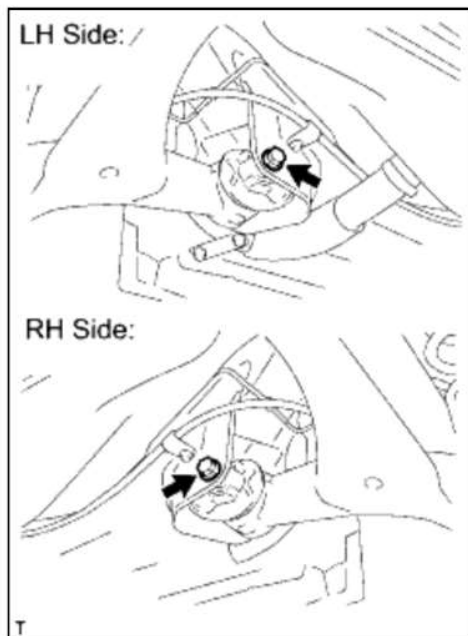
2. INSTALL REAR AXLE CARRIER BUSHING RH

HINT:

Perform the same procedure as the LH side.

3. TEMPORARILY TIGHTEN REAR AXLE BEAM ASSEMBLY

(a) Support the rear axle beam assembly using 2 jacks and 2 wooden blocks.



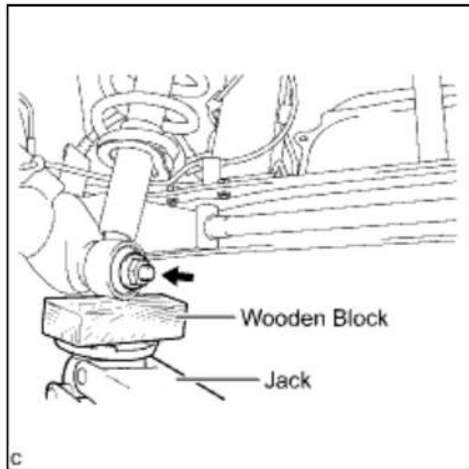
(b) Temporarily install the rear axle beam assembly with the 2 bolts and 2 nuts.

(c) Temporarily tighten the 2 bolts.

NOTICE:

Since stopper nuts are used, temporarily tighten the bolts.

4. TEMPORARILY TIGHTEN REAR SHOCK ABSORBER WITH COIL SPRING LH



- (a) Temporarily install the rear shock absorber with coil spring LH and the rear No. 1 shock absorber cushion retainer with the nut.

5. TEMPORARILY TIGHTEN REAR SHOCK ABSORBER WITH COIL SPRING RH

HINT:

Perform the same procedure as the LH side.

6. INSTALL REAR STABILIZER BAR (for TMC Made) INFO

7. INSTALL REAR STABILIZER BAR (except TMC Made) INFO

8. INSTALL REAR AXLE BEAM DAMPER INFO

9. INSTALL REAR AXLE HUB AND BEARING ASSEMBLY LH (for Rear Drum Brake) INFO

10. INSTALL REAR AXLE HUB AND BEARING ASSEMBLY RH (for Rear Drum Brake)

HINT:

Perform the same procedure as the LH side.

11. INSTALL REAR AXLE HUB AND BEARING ASSEMBLY LH (for Rear Disc Brake) INFO

12. INSTALL REAR AXLE HUB AND BEARING ASSEMBLY RH (for Rear Disc Brake)

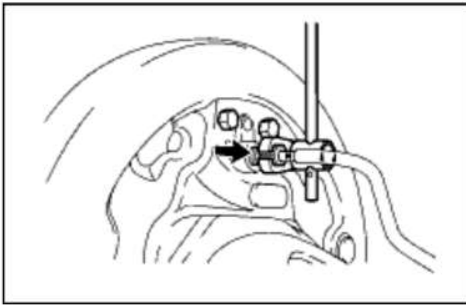
HINT:

Perform the same procedure as the LH side.

13. TEMPORARILY TIGHTEN NO. 4 REAR BRAKE TUBE (for Rear Drum Brake)

- (a) Using a union nut wrench (10 mm), temporarily install the No. 4 rear brake tube to the rear brake wheel cylinder assembly LH.

NOTICE:



- Do not bend or damage the brake line.
- Do not allow any foreign matter such as dirt and dust to enter the brake line.

14. TEMPORARILY TIGHTEN NO. 3 REAR BRAKE TUBE (for Rear Drum Brake)

HINT:

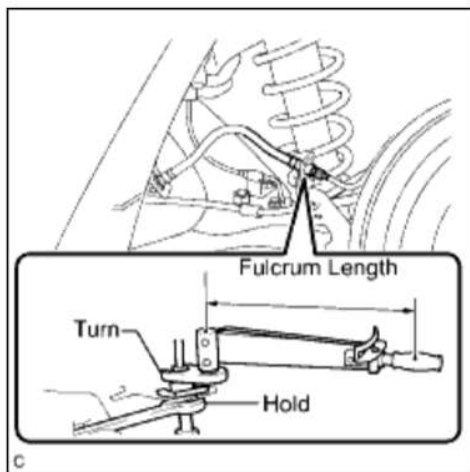
Perform the same procedure as the No. 4 rear brake tube.

15. INSTALL REAR FLEXIBLE HOSE LH (for Rear Drum Brake)

(a) Install the rear flexible hose LH with a new clip.

NOTICE:

Install the new clip as far as it will go.



(b) Using a union nut wrench (10 mm), connect the No. 4 rear brake tube to the rear flexible hose while holding the rear flexible hose LH with a wrench.

without union nut wrench - Torque: 15 N·m (155 kgf·cm, 11ft·lbf)

with union nut wrench - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

NOTICE:

- Do not bend or damage the brake line.
- Do not allow any foreign matter such as dirt and dust to enter the brake line.
- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- This torque value is effective when the union nut wrench is parallel to the torque wrench.

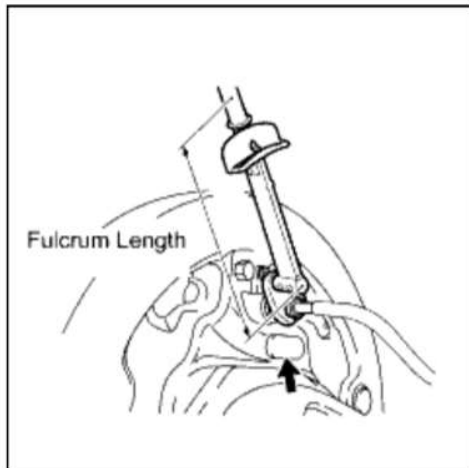
16. INSTALL REAR FLEXIBLE HOSE RH (for Rear Drum Brake)

HINT:

Perform the same procedure as the LH side.

17. FULLY TIGHTEN NO. 4 REAR BRAKE TUBE (for Rear Drum Brake)

(a) Using a union nut wrench (10 mm), fully tighten the No. 4 rear brake tube.



without union nut wrench - Torque: 15 N·m (155 kgf·cm, 11ft·lbf)

with union nut wrench - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

NOTICE:

- Use a torque wrench with a fulcrum length of 250 mm (9.84 in.).
- This torque value is effective when the union nut wrench is parallel to the torque wrench.

18. FULLY TIGHTEN NO. 3 REAR BRAKE TUBE (for Rear Drum Brake)

HINT:

Perform the same procedure as the No. 4 rear brake tube.

19. INSTALL REAR DISC LH (for Rear Disc Brake)



20. INSTALL REAR DISC RH (for Rear Disc Brake)

HINT:

Perform the same procedure as the LH side.

21. INSTALL REAR DISC BRAKE CALIPER ASSEMBLY LH (for Rear Disc Brake)

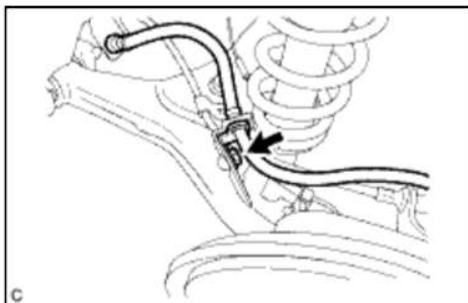


22. INSTALL REAR DISC BRAKE CALIPER ASSEMBLY RH (for Rear Disc Brake)

HINT:

Perform the same procedure as the LH side.

23. INSTALL REAR FLEXIBLE HOSE LH (for Rear Disc Brake)



- (a) Install the rear flexible hose LH to the rear axle beam with the bolt.

Torque: 29 N·m (296 kgf·cm, 21ft·lbf)

NOTICE:

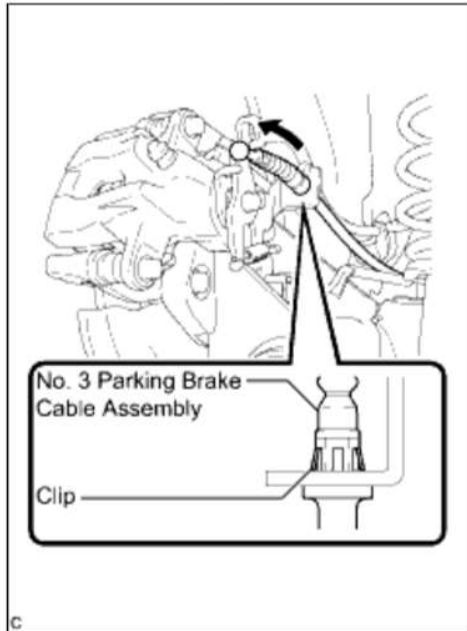
Do not twist the rear flexible hose LH.

24. INSTALL REAR FLEXIBLE HOSE RH (for Rear Disc Brake)

HINT:

Perform the same procedure as the LH side.

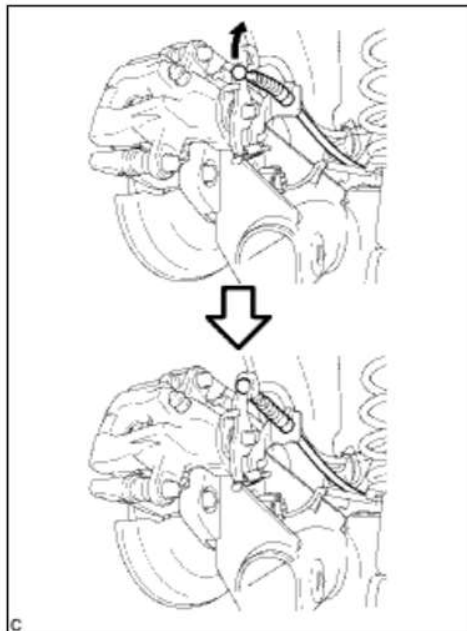
25. CONNECT NO. 3 PARKING BRAKE CABLE ASSEMBLY (for Rear Disc Brake)



- (a) Install the No. 3 parking brake cable assembly to the rear disc brake cylinder assembly LH.

HINT:

Be sure to engage the No. 3 parking cable assembly clip onto the rear disc brake cylinder assembly LH as shown in the illustration.



- (b) Connect the No. 3 parking brake cable assembly to the rear disc brake cylinder assembly LH.

26. CONNECT NO. 2 PARKING BRAKE CABLE ASSEMBLY (for Rear Disc Brake)

HINT:

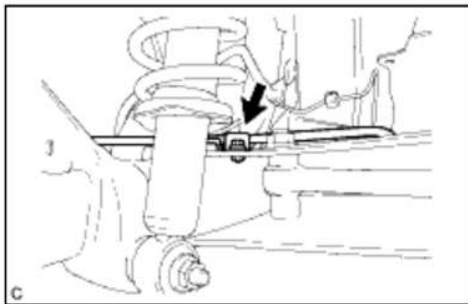
Perform the same procedure as the No. 3 parking brake cable assembly side.

27. INSTALL PARKING BRAKE LEVER PROTECTOR LH (for Rear Disc Brake)**28. INSTALL PARKING BRAKE LEVER PROTECTOR RH (for Rear Disc Brake)****HINT:**

Perform the same procedure as the LH side.

29. INSTALL REAR BRAKE DRUM LH (for Rear Drum Brake)**30. INSTALL REAR BRAKE DRUM RH (for Rear Drum Brake)****HINT:**

Perform the same procedure as the LH side.

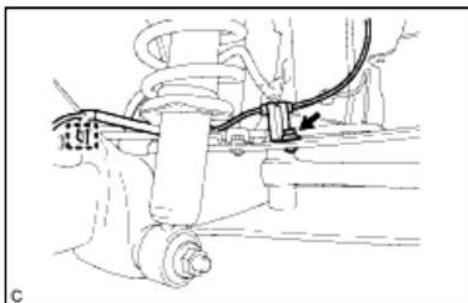
31. INSTALL NO. 3 PARKING BRAKE CABLE ASSEMBLY

- (a) Install the No. 3 parking brake cable assembly with the bolt.

Torque: 6.0 N·m (61 kgf·cm, 53in·lbf)

32. INSTALL NO. 2 PARKING BRAKE CABLE ASSEMBLY**HINT:**

Perform the same procedure as the No. 3 parking brake cable assembly.

33. INSTALL REAR SPEED SENSOR WIRE LH

- (a) Install the rear speed sensor wire LH with the bolt.

Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

NOTICE:

Do not twist the rear speed sensor wire LH.

- (b) Engage the clamp.

NOTICE:

Do not twist the rear speed sensor wire LH.

34. INSTALL REAR SPEED SENSOR WIRE RH

HINT:

Perform the same procedure as the LH side.

35. CONNECT REAR SPEED SENSOR WIRE LH (for Rear Drum Brake) 

36. CONNECT REAR SPEED SENSOR WIRE RH (for Rear Drum Brake)

HINT:

Perform the same procedure as the LH side.

37. CONNECT REAR SPEED SENSOR WIRE LH (for Rear Disc Brake) 

38. CONNECT REAR SPEED SENSOR WIRE RH (for Rear Disc Brake)

HINT:

Perform the same procedure as the LH side.

39. ADJUST PARKING BRAKE LEVER TRAVEL (for Rear Disc Brake) 

40. INSPECT REAR DISC BRAKE CYLINDER OPERATION LEVER AND STOPPER CLEARANCE (for Rear Disc Brake) 

41. ADJUST REAR DRUM BRAKE SHOE CLEARANCE (for Rear Drum Brake) 

42. FILL BRAKE FLUID RESERVOIR (for Rear Drum Brake) 

43. BLEED BRAKE LINE (for Rear Drum Brake) 

44. INSPECT FOR BRAKE FLUID LEAK (for Rear Drum Brake)

45. INSPECT BRAKE FLUID LEVEL (for Rear Drum Brake) 

46. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

47. INSTALL REAR WHEELS

Torque: 103 N·m (1050 kgf·cm, 76ft·lbf)

48. INSTALL UPPER CONSOLE PANEL SUB-ASSEMBLY (for Rear Disc Brake) 

49. INSTALL CENTER NO. 1 INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY (for Rear Disc Brake)

HINT:

- for Manual Transaxle 
- for Automatic Transaxle 

50. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Rear Disc Brake)

HINT:

- for Manual Transaxle 
- for Automatic Transaxle 

51. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL LH (for Rear Disc Brake)

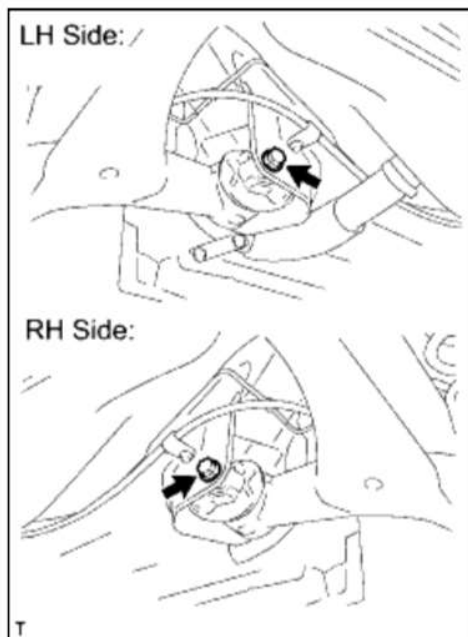
INFO

52. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL RH (for Rear Disc Brake)

INFO

53. STABILIZE SUSPENSION

INFO

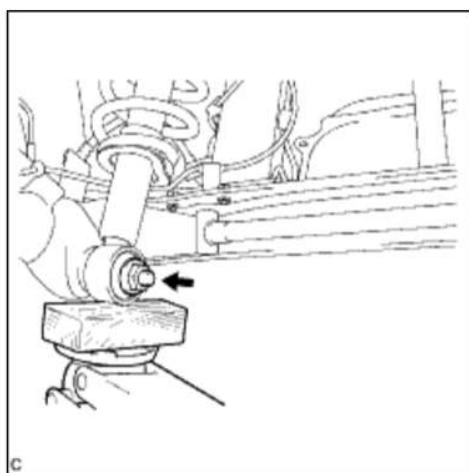
54. FULLY TIGHTEN REAR AXLE BEAM ASSEMBLY

(a) Fully tighten the 2 bolts on the rear axle beam assembly.

Torque: 85 N·m (867 kgf·cm, 63ft·lbf)

NOTICE:

- Since stopper nuts are used, tighten the bolts.
- The final torque must be applied under standard vehicle height conditions.

55. FULLY TIGHTEN REAR SHOCK ABSORBER WITH COIL SPRING LH

(a) Fully tighten the nut on the rear shock absorber with coil spring LH (lower side).

Torque: 80 N·m (816 kgf·cm, 59ft·lbf)

CAUTION:

The final torque must be applied under standard vehicle height conditions.

56. FULLY TIGHTEN REAR SHOCK ABSORBER WITH COIL SPRING RH**HINT:**

Perform the same procedure as the LH side.

57. INSPECT REAR WHEEL ALIGNMENT



58. PLACE FRONT WHEELS FACING STRAIGHT AHEAD (w/ VSC)

59. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL (w/ VSC)

NOTICE:

Disconnect the cable from the negative (-) battery terminal for more than 2 seconds.

60. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL (w/ VSC)

61. PERFORM YAW RATE SENSOR ZERO POINT CALIBRATION (w/ VSC)



62. CHECK STEERING ANGLE SENSOR ZERO POINT CALIBRATION (w/ VSC)



63. CHECK FOR SPEED SENSOR SIGNAL (w/ ABS)



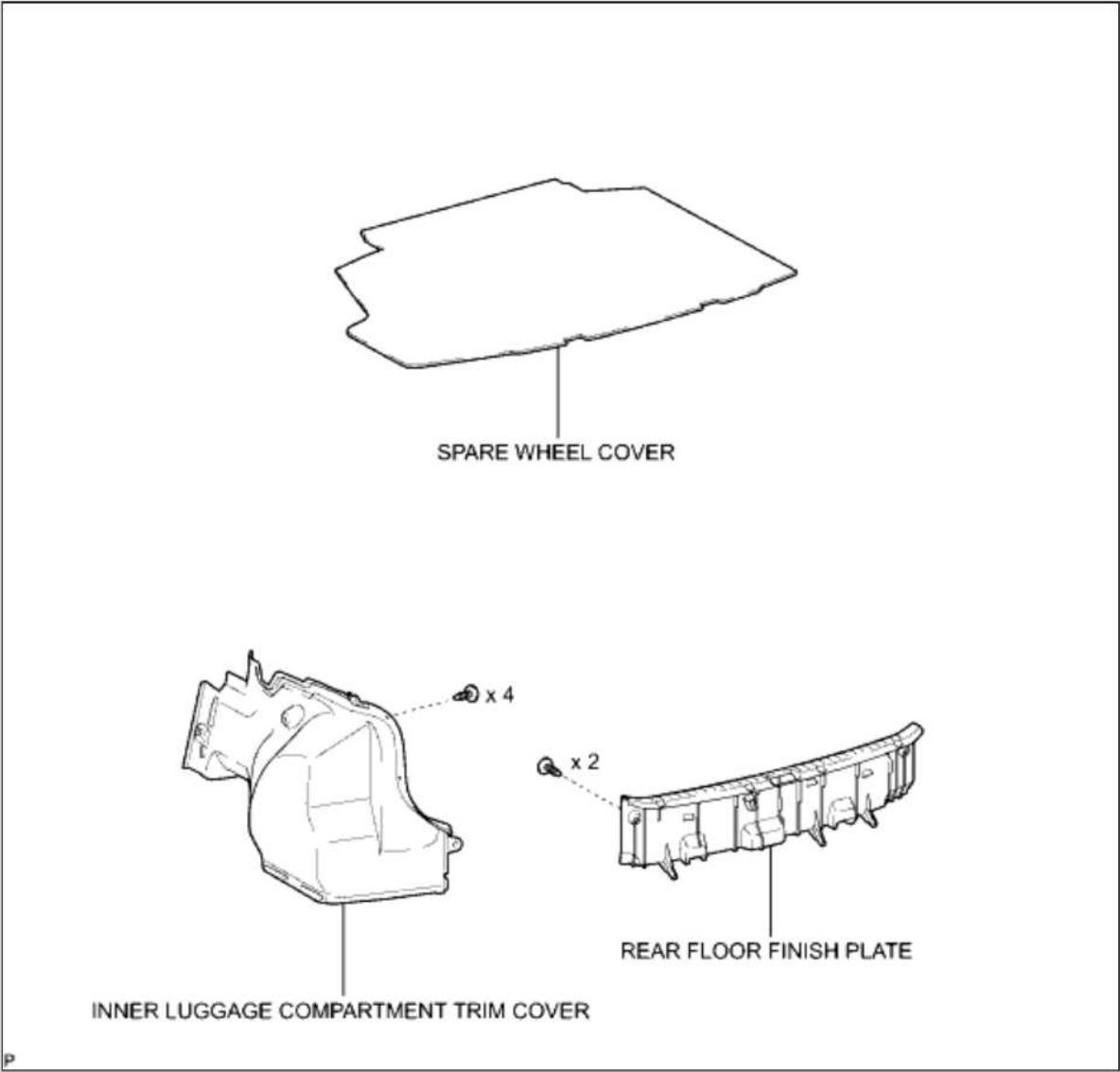
64. CHECK FOR SPEED SENSOR SIGNAL (w/ VSC)



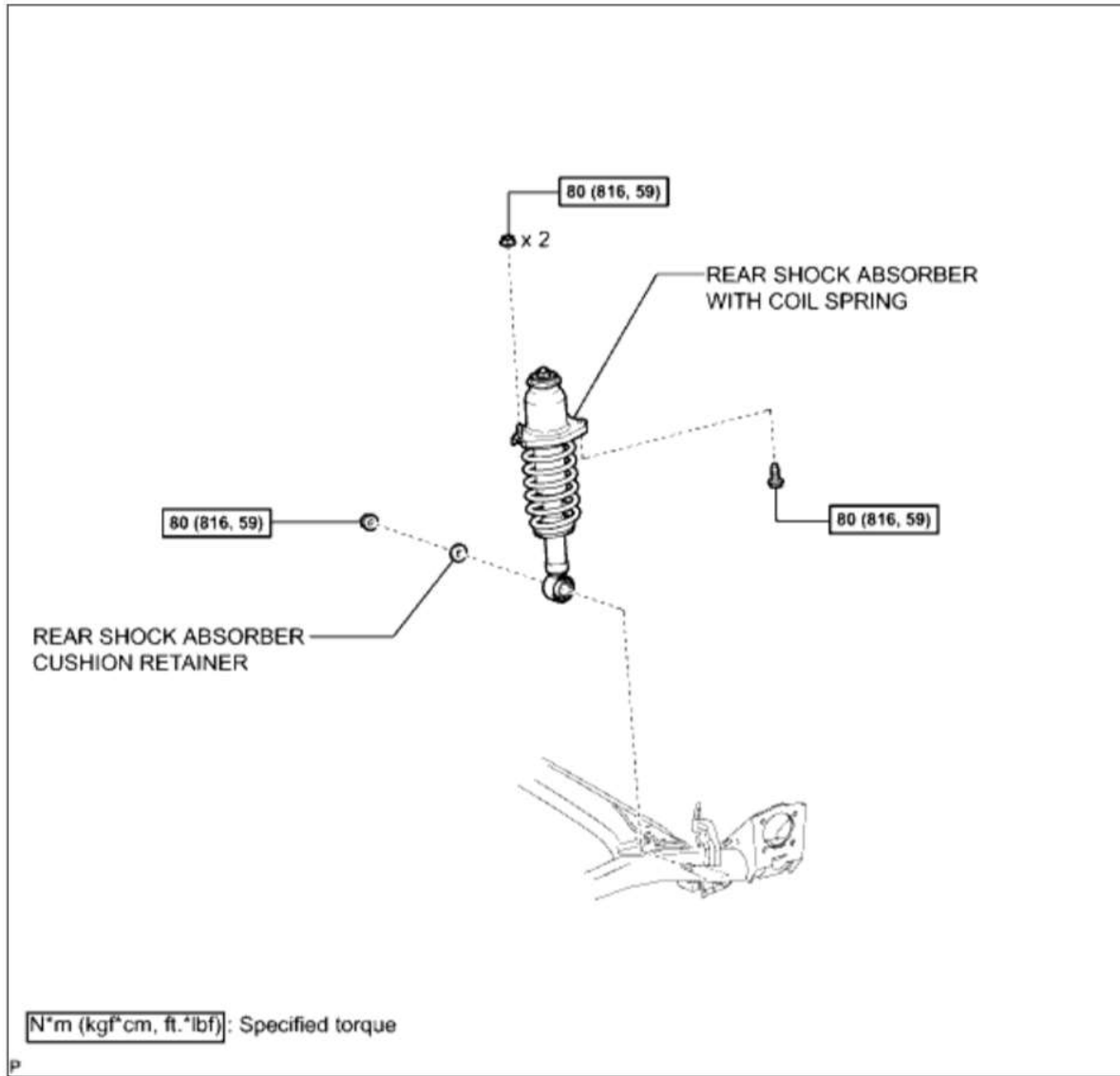
Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000002PCL00MX
Title: REAR SUSPENSION: REAR SHOCK ABSORBER: COMPONENTS (2010 Corolla)		

COMPONENTS

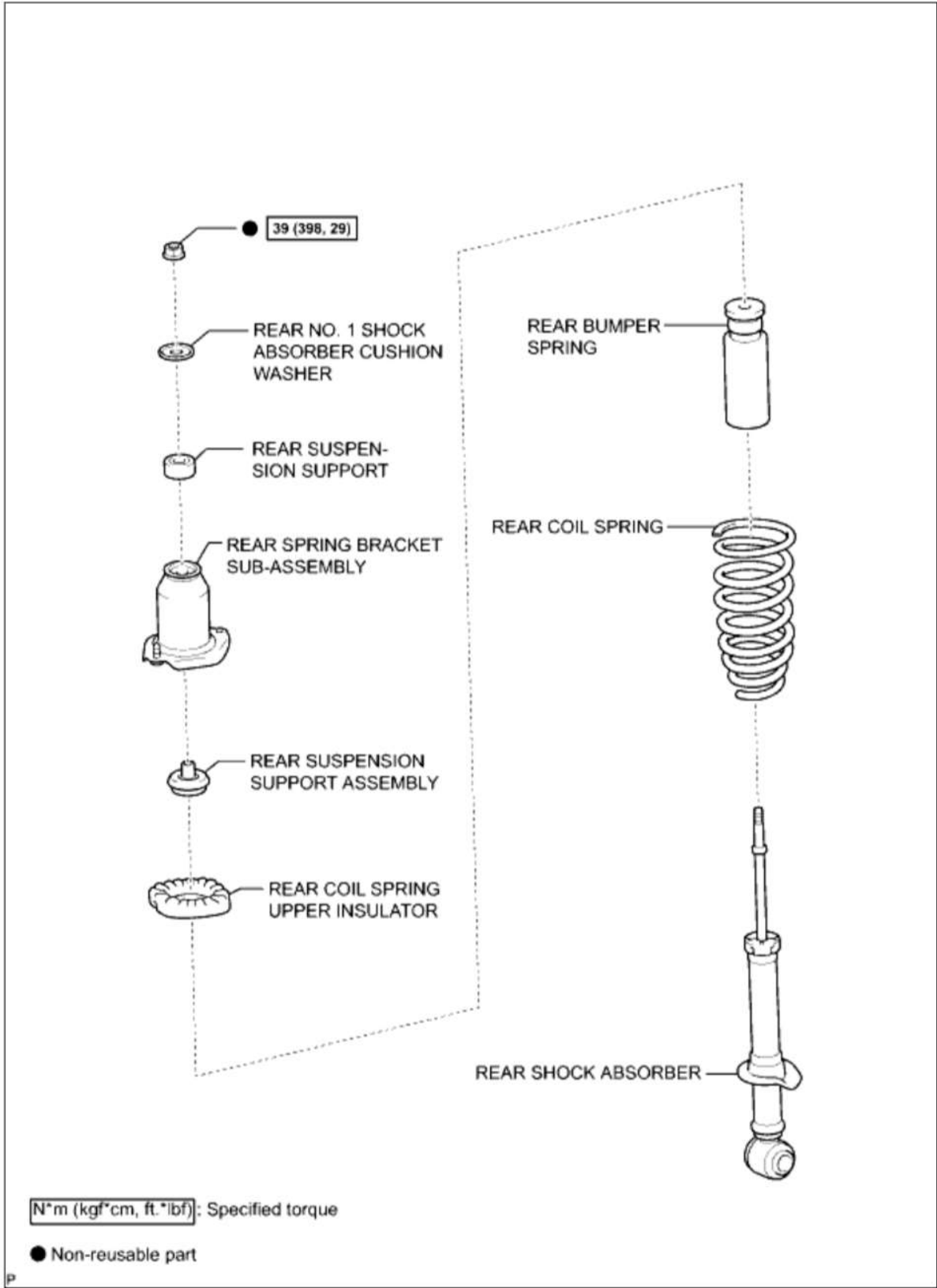
ILLUSTRATION



ILLUSTRATION



ILLUSTRATION



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Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000WTY010X
Title: REAR SUSPENSION: REAR SHOCK ABSORBER: REMOVAL (2010 Corolla)		

REMOVAL

NOTICE:

For vehicles equipped with VSC, if the wheel alignment has been adjusted, and if suspension or underbody components have been removed/installed or replaced, be sure to perform the following initialization procedure in order for the system to function normally:

1. Disconnect the cable from the negative (-) battery terminal for more than 2 seconds.
2. Reconnect the cable to the negative (-) battery terminal.
3. Perform zero point calibration of the yaw rate and acceleration sensor and test mode inspection.

HINT:

- Use the same procedure for the RH side and LH side.
- The procedure listed below is for the LH side.

1. REMOVE SPARE WHEEL COVER

[INFO](#)

2. REMOVE REAR FLOOR FINISH PLATE

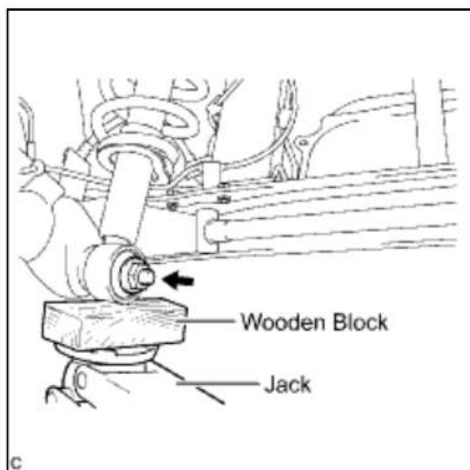
[INFO](#)

3. REMOVE INNER LUGGAGE COMPARTMENT TRIM COVER

[INFO](#)

4. REMOVE REAR WHEEL

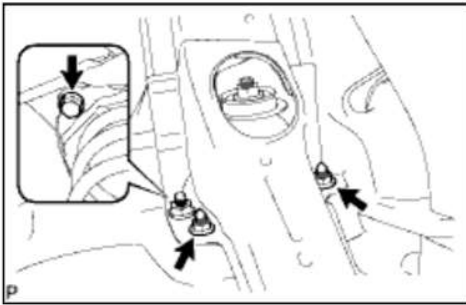
5. REMOVE REAR SHOCK ABSORBER WITH COIL SPRING



(a) Support the rear axle beam assembly using a jack and wooden block.

(b) Remove the nut and rear shock absorber cushion retainer.

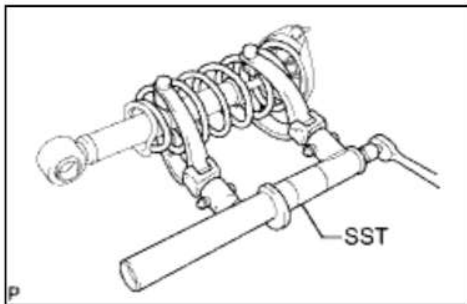
(c) Remove the 2 nuts from the rear shock absorber with coil spring (upper side).



(d) Remove the bolt (lower side) from the rear shock absorber with coil spring.

(e) Slowly lower the jack and remove the rear shock absorber with coil spring.

6. REMOVE REAR NO. 1 SHOCK ABSORBER CUSHION WASHER



(a) Using SST, compress the rear coil spring.

SST: 09727-30021

09727-00010

09727-00021

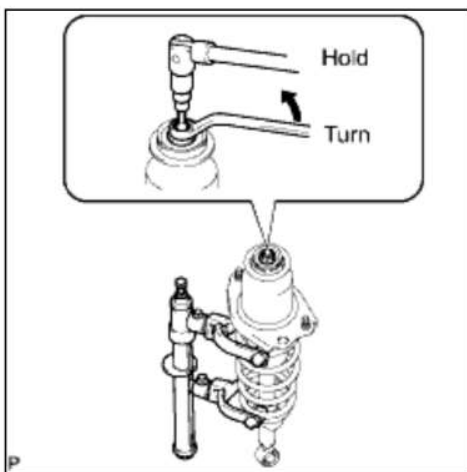
09727-00031

If the rear coil spring is compressed at an angle, using 2 SST will make the work easier.

NOTICE:

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

(b) Check that the rear coil spring is fully compressed.



(c) Use a hexagon wrench (6 mm) to hold the rear shock absorber piston rod and remove the nut.

(d) Remove the No. 1 rear shock absorber cushion washer.

7. REMOVE REAR SUSPENSION SUPPORT

8. REMOVE REAR SPRING BRACKET SUB-ASSEMBLY

9. REMOVE REAR SUSPENSION SUPPORT ASSEMBLY**10. REMOVE REAR COIL SPRING UPPER INSULATOR****11. REMOVE REAR BUMPER SPRING****12. REMOVE REAR COIL SPRING**

(a) Remove SST and remove the rear coil spring.

NOTICE:

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



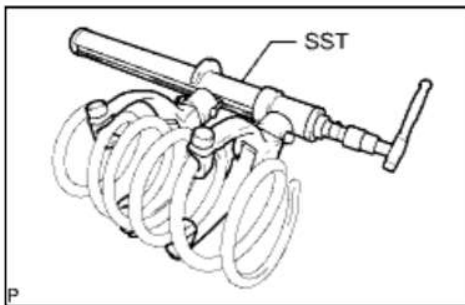
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000WTW010X
Title: REAR SUSPENSION: REAR SHOCK ABSORBER: INSTALLATION (2010 Corolla)		

INSTALLATION

HINT:

- Use the same procedure for the RH side and LH side.
- The procedure listed below is for the LH side.

1. INSTALL REAR COIL SPRING



(a) Using SST, compress the rear coil spring.

SST: 09727-30021

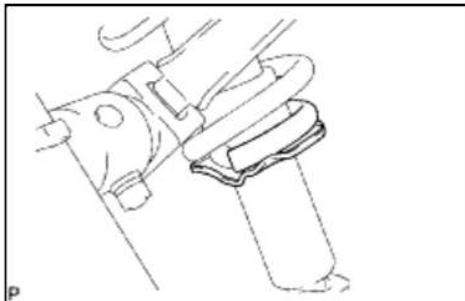
09727-00010

09727-00021

09727-00031

NOTICE:

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



(b) Install the coil spring into the shock absorber assembly.

NOTICE:

Make sure that the end of the rear coil spring is positioned in the depression of the lower spring seat.

2. INSTALL REAR BUMPER SPRING

3. INSTALL REAR COIL SPRING UPPER INSULATOR

4. INSTALL REAR SUSPENSION SUPPORT ASSEMBLY

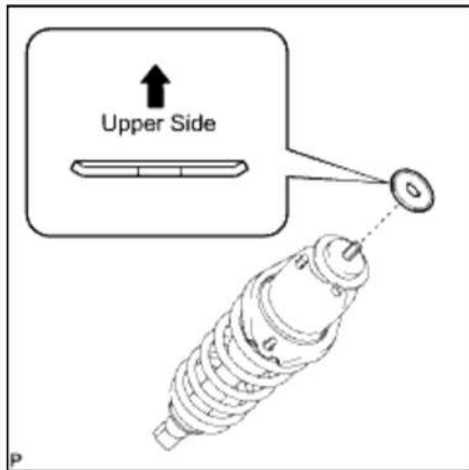
5. INSTALL REAR SPRING BRACKET SUB-ASSEMBLY

6. INSTALL REAR SUSPENSION SUPPORT

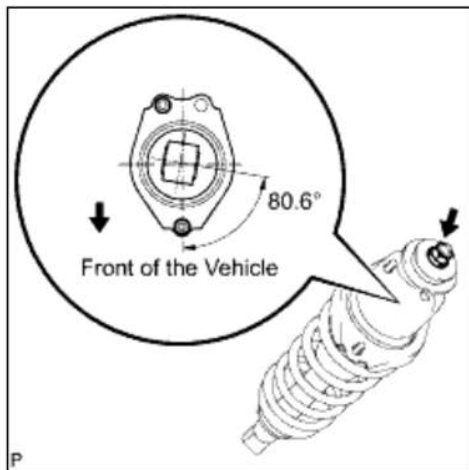
7. INSTALL REAR NO. 1 SHOCK ABSORBER CUSHION WASHER

(a) Install the rear No. 1 shock absorber cushion washer.

HINT:



Be sure to install the rear No. 1 shock absorber cushion washer in the correct direction.



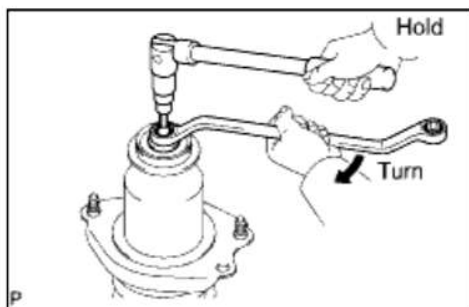
(b) Temporarily install a new nut.

NOTICE:

Position the rear spring bracket sub-assembly with rear shock absorber lower bushing as shown in the illustration.

HINT:

Position the RH side on the symmetrical to the illustration.



(c) Using a socket hexagon wrench (6 mm), secure the rear shock absorber piston rod and tighten the nut.

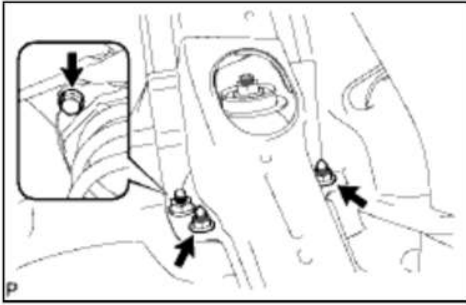
Torque: 39 N·m (398 kgf·cm, 29ft·lbf)

(d) Remove SST from the rear coil spring.

NOTICE:

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

8. INSTALL REAR SHOCK ABSORBER WITH COIL SPRING

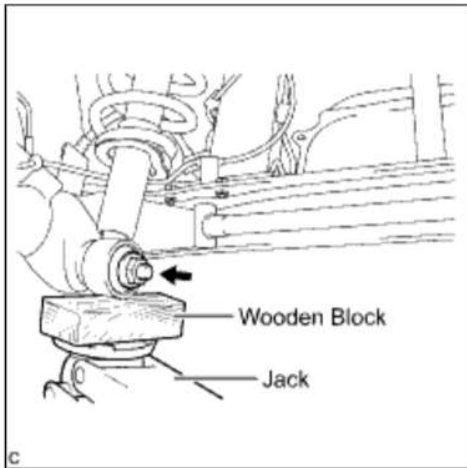


- (a) Install the rear shock absorber with coil spring with the bolt (lower side).

Torque: 80 N·m (816 kgf·cm, 59ft·lbf)

- (b) Install the rear shock absorber with coil spring with the 2 nuts (upper side).

Torque: 80 N·m (816 kgf·cm, 59ft·lbf)



- (c) Support the rear axle beam using a jack and wooden block.

- (d) Temporarily install the rear shock absorber with coil spring (lower side) and rear shock absorber cushion retainer with the nut.

9. INSTALL REAR WHEEL

Torque: 103 N·m (1050 kgf·cm, 76ft·lbf)

10. STABILIZE SUSPENSION

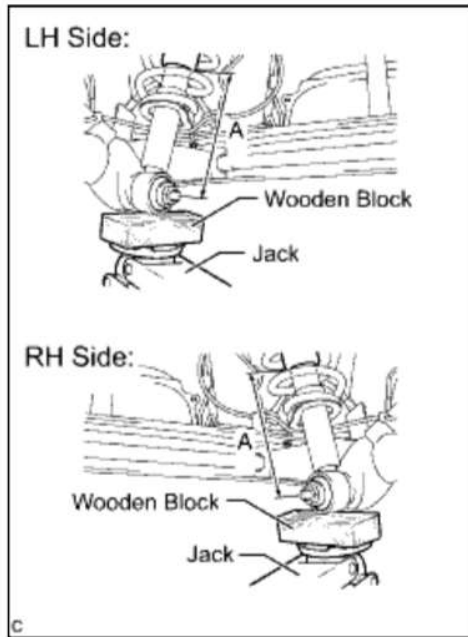
- (a) Lower the vehicle.
(b) Bounce the vehicle up and down several times to stabilize the suspension.

- (c) Jack up the rear axle beam, placing a wooden block underneath to avoid damage. Apply load to the suspension so that the rear shock absorber with coil spring is positioned as shown in the illustration.

Length A :

206 mm (8.11 in.)

If the rear shock absorber with coil spring cannot be

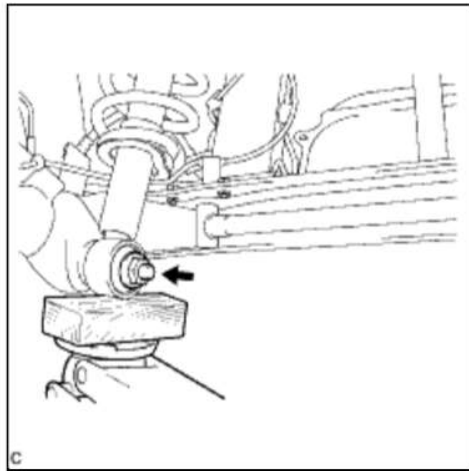


positioned as shown in the illustration even when the rear axle beam is jacked up, apply additional load to the vehicle such as by having a person sit in the rear seat.

CAUTION:

Do not jack up the rear axle beam too high as the vehicle may fall.

11. FULLY TIGHTEN REAR SHOCK ABSORBER WITH COIL SPRING



(a) Fully tighten the nut on the rear shock absorber with coil spring (lower side).

Torque: 80 N·m (816 kgf·cm, 59ft·lbf)

NOTICE:

The final torque must be applied under standard vehicle height conditions.

12. INSTALL INNER LUGGAGE COMPARTMENT TRIM COVER INFO

13. INSTALL REAR FLOOR FINISH PLATE INFO

14. INSTALL SPARE WHEEL COVER INFO

15. INSPECT REAR WHEEL ALIGNMENT

INFO

16. PLACE FRONT WHEELS FACING STRAIGHT AHEAD (w/ VSC)

17. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL (w/ VSC)

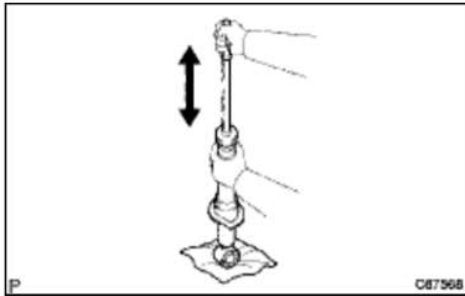
NOTICE:

Disconnect the cable from the negative (-) battery terminal for more than 2 seconds.

18. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL (w/ VSC)**19. PERFORM YAW RATE SENSOR ZERO POINT CALIBRATION (w/ VSC)****20. CHECK STEERING ANGLE SENSOR ZERO POINT CALIBRATION (w/ VSC)**

Last Modified: 3-10-2010	6.4 G	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM0000025R4000X
Title: REAR SUSPENSION: REAR SHOCK ABSORBER: INSPECTION (2010 Corolla)		

INSPECTION



1. INSPECT REAR SHOCK ABSORBER ASSEMBLY

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

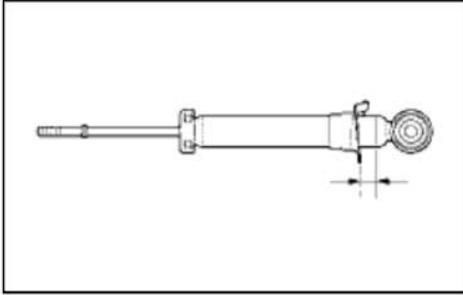
If there is any abnormality, replace the shock absorber with a new one.



Last Modified: 3-10-2010	6.4 N	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000000UA3011X
Title: REAR SUSPENSION: REAR SHOCK ABSORBER: DISPOSAL (2010 Corolla)		

DISPOSAL

1. DISPOSE OF REAR SHOCK ABSORBER ASSEMBLY



- Fully extend the piston rod and secure the rear shock absorber assembly at an angle in a vise.
- Using a drill, make a hole in the cylinder as shown in the illustration to discharge the gas inside the cylinder.

NOTICE:

- The gas is colorless, odorless, and non-poisonous.
- Be careful when drilling because shards of metal may fly about, so always use proper safety equipment.

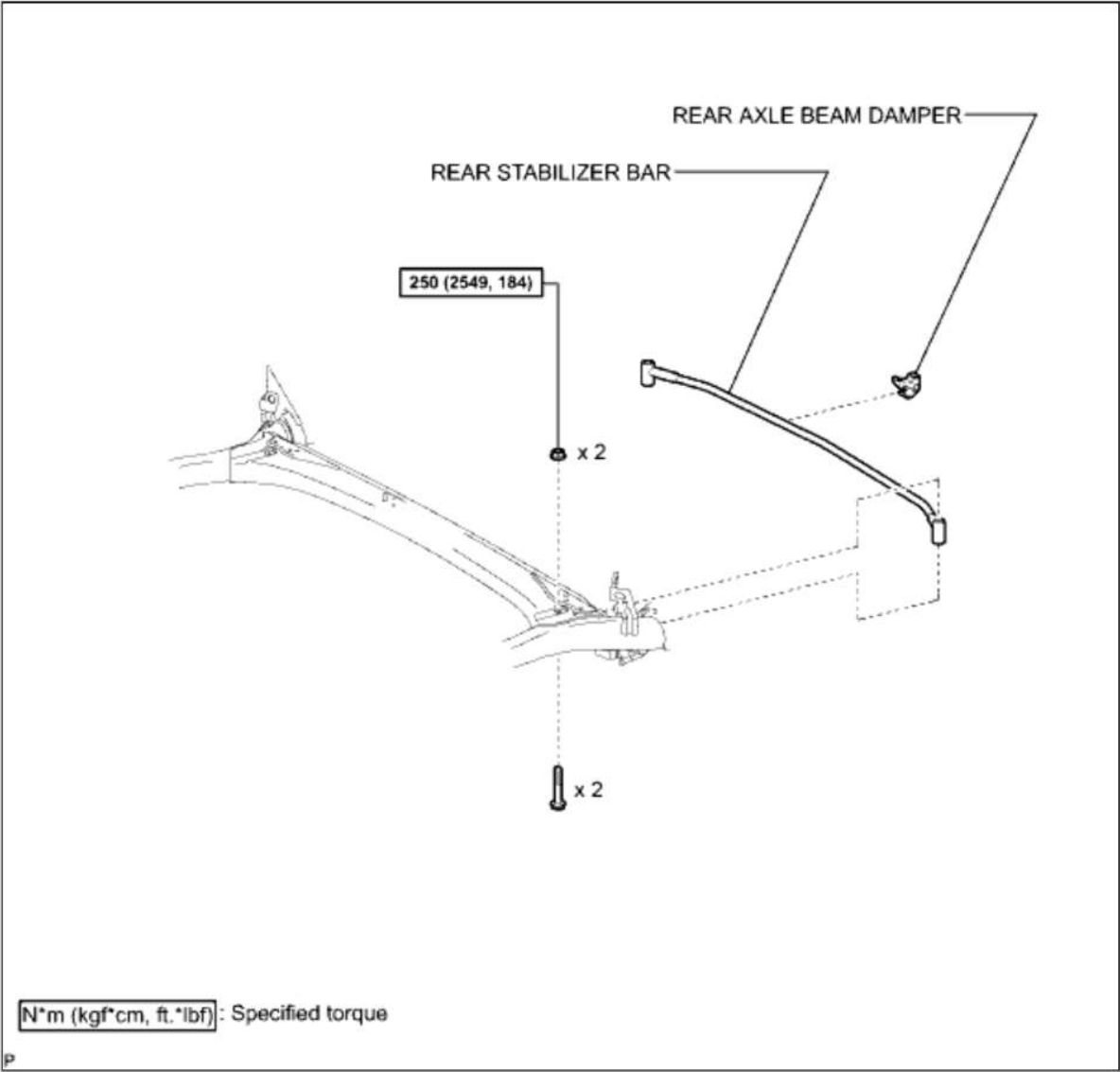


TOYOTA

Last Modified: 3-10-2010	6.4 K	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000228W00KX
Title: REAR SUSPENSION: REAR STABILIZER BAR: COMPONENTS (2010 Corolla)		

COMPONENTS

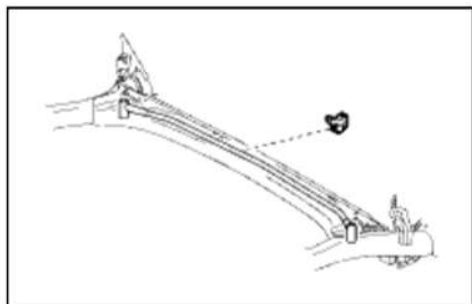
ILLUSTRATION



Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000228X00NX
Title: REAR SUSPENSION: REAR STABILIZER BAR: REMOVAL (2010 Corolla)		

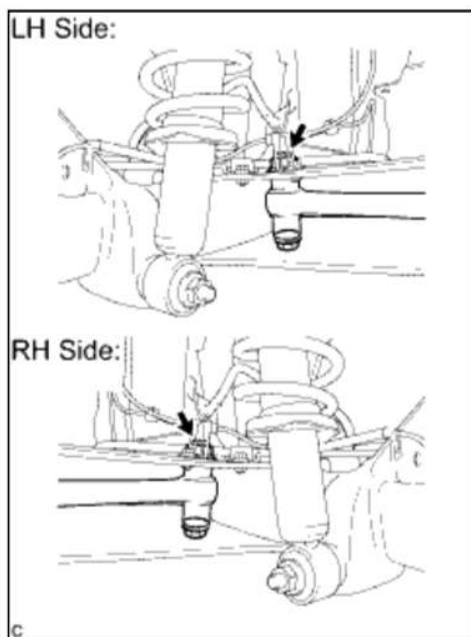
REMOVAL

1. REMOVE REAR AXLE BEAM DAMPER



(a) Remove the rear axle beam damper.

2. REMOVE REAR STABILIZER BAR



(a) Remove the 2 bolts, 2 nuts and rear stabilizer bar.

NOTICE:

Be sure to loosen the nuts.

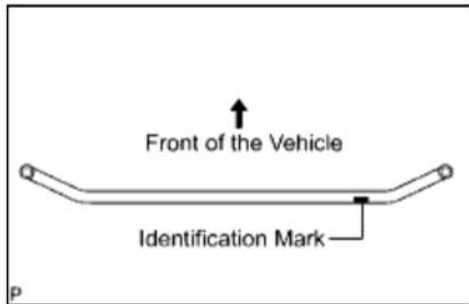


TOYOTA

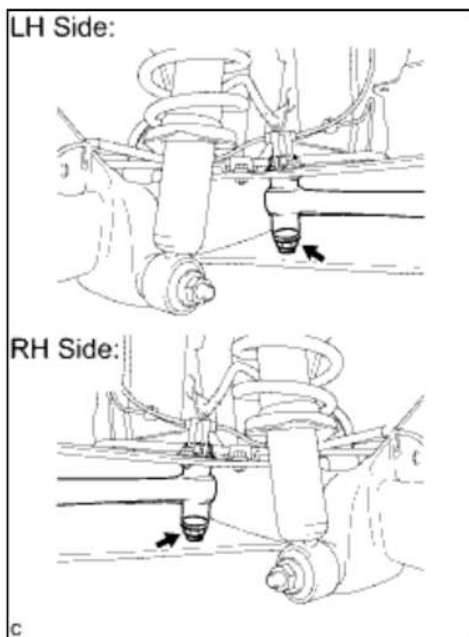
Last Modified: 3-10-2010	6.4 A	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM00000228U00NX
Title: REAR SUSPENSION: REAR STABILIZER BAR: INSTALLATION (2010 Corolla)		

INSTALLATION

1. INSTALL REAR STABILIZER BAR (for TMC Made)



- (a) Check that the identification mark of the rear stabilizer bar is positioned on the right side of the vehicle.



- (b) Install the rear stabilizer bar with the 2 bolts and 2 nuts.

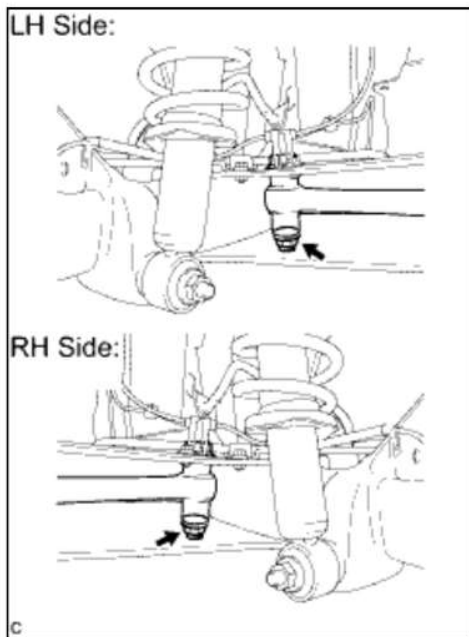
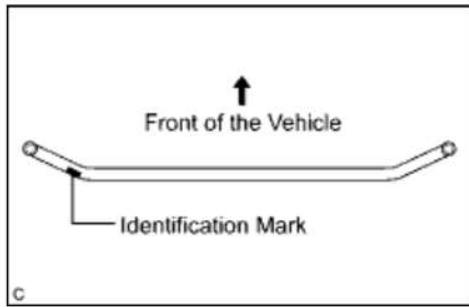
Torque: 250 N·m (2549 kgf·cm, 184ft·lbf)

NOTICE:

- Be sure to tighten the nuts.
- If reusing the bolts, insert them from the upper side of the vehicle.

2. INSTALL REAR STABILIZER BAR (except TMC Made)

- (a) Check that the identification mark of the rear stabilizer bar is positioned on the left side of the vehicle.



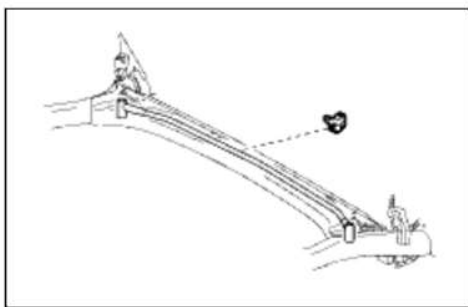
(b) Install the rear stabilizer bar with the 2 bolts and 2 nuts.

Torque: 250 N·m (2549 kgf·cm, 184ft·lbf)

NOTICE:

- Be sure to tighten the nuts.
- If reusing the bolts, insert them from the upper side of the vehicle.

3. INSTALL REAR AXLE BEAM DAMPER



(a) Install the rear axle beam damper to the center of the rear stabilizer bar.

Last Modified: 3-10-2010	6.4 T	From: 200901
Model Year: 2010	Model: Corolla	Doc ID: RM000001Y3700UX
Title: REAR SUSPENSION: REAR SUSPENSION SYSTEM: PROBLEM SYMPTOMS TABLE (2010 Corolla)		

PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

Rear Suspension System

SYMPTOM	SUSPECTED AREA	SEE PAGE
Vehicle pulls to one side while driving	Tire (worn or improperly inflated)	INFO
	Rear wheel alignment (incorrect)	INFO
	Rear shock absorber (worn)	INFO
	Rear hub bearing (worn)	INFO
	Suspension parts (worn)	-
Bottoming	Vehicle (overloaded)	-
	Rear coil spring (weak)	INFO
	Rear shock absorber (worn)	INFO
Sway/pitches	Tire (worn or improperly inflated)	INFO
	Rear coil spring (weak)	INFO
	Rear shock absorber (worn)	INFO
	Rear stabilizer bar (bent or broken)	INFO
Wheel shimmy	Tire (worn or improperly inflated)	INFO
	Wheel (out of balance)	INFO
	Rear wheel alignment (incorrect)	INFO
	Rear shock absorber (worn)	INFO
	Rear hub bearing (worn)	INFO
Abnormal tire wear	Tire (worn or improperly inflated)	INFO
	Wheel (out of balance)	INFO
	Rear wheel alignment (incorrect)	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
	Suspension parts (worn)	-

