

PROBLEM SYMPTOMS TABLE

HINT:

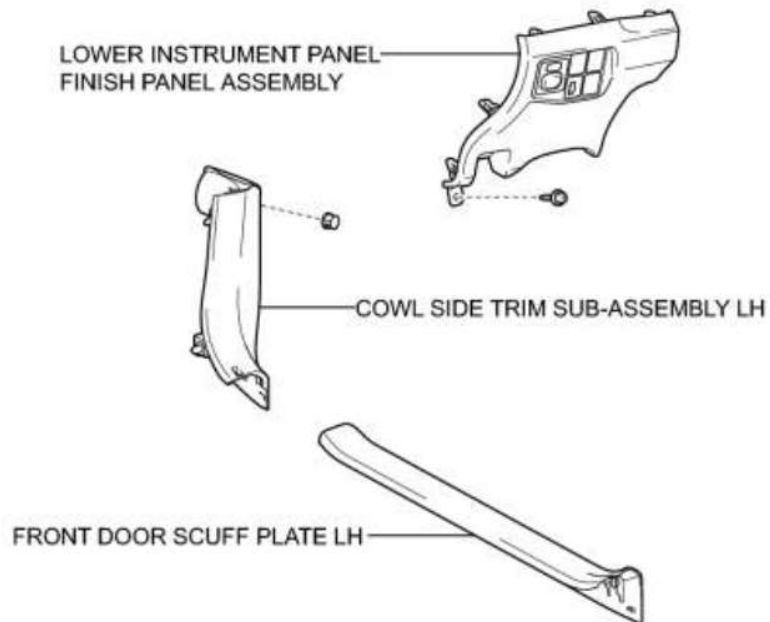
Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. 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 axle hub (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
Wheel shimmy	Tire (worn or improperly inflated)	INFO
	Wheel (out of balance)	INFO
	Rear wheel alignment (incorrect)	INFO
	Rear shock absorber (worn)	INFO
	Rear axle hub (worn)	INFO
Abnormal tire wear	Tire (worn or improperly inflated)	INFO
	Wheel (out of balance)	INFO
	Rear wheel alignment (incorrect)	INFO
	Suspension parts (worn)	-

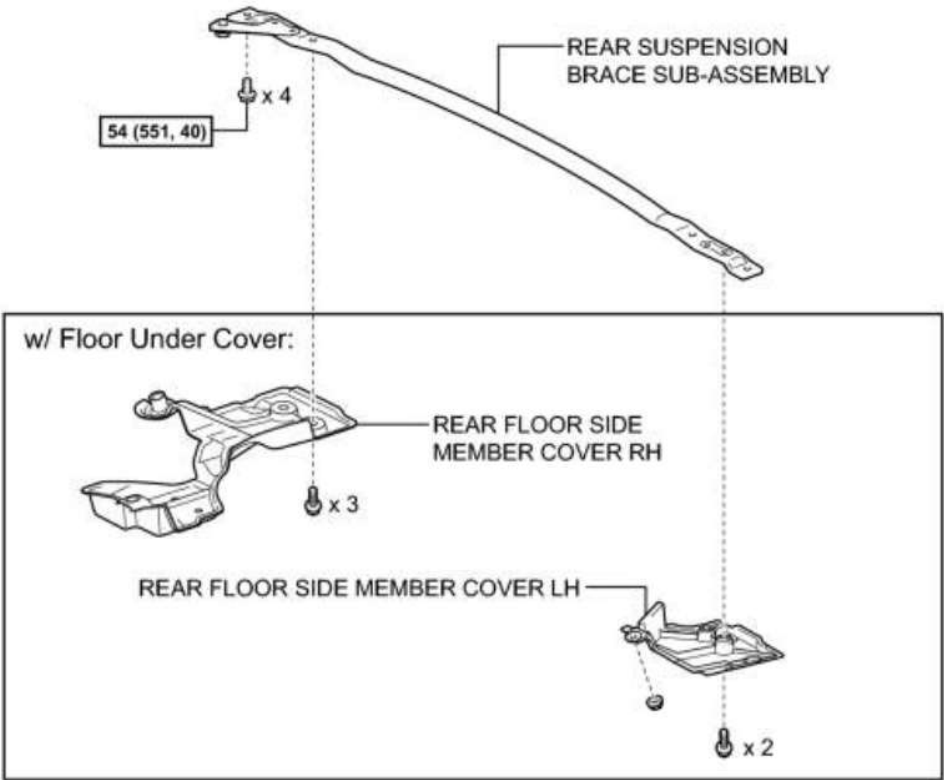
COMPONENTS

ILLUSTRATION



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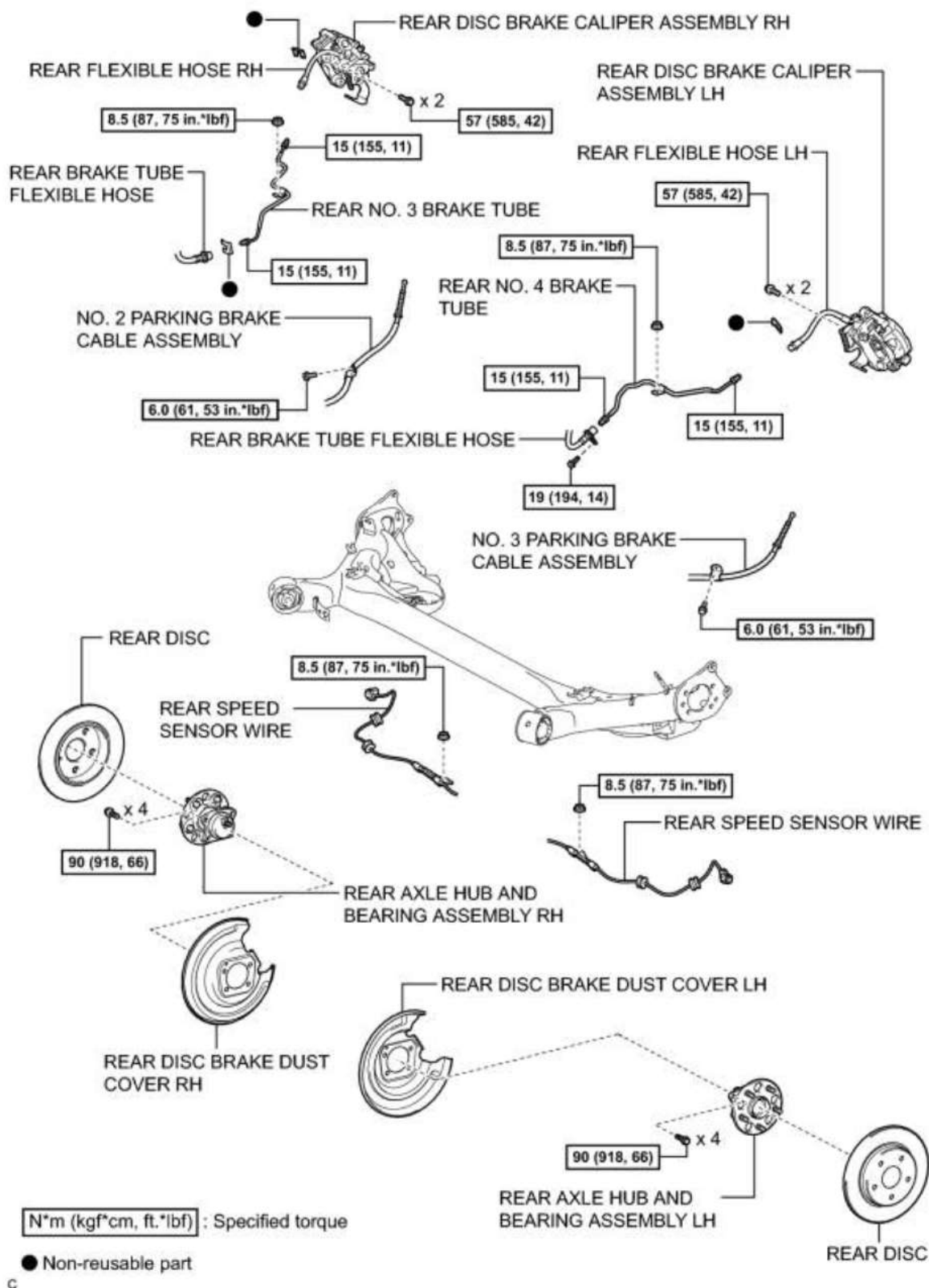
ILLUSTRATION



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

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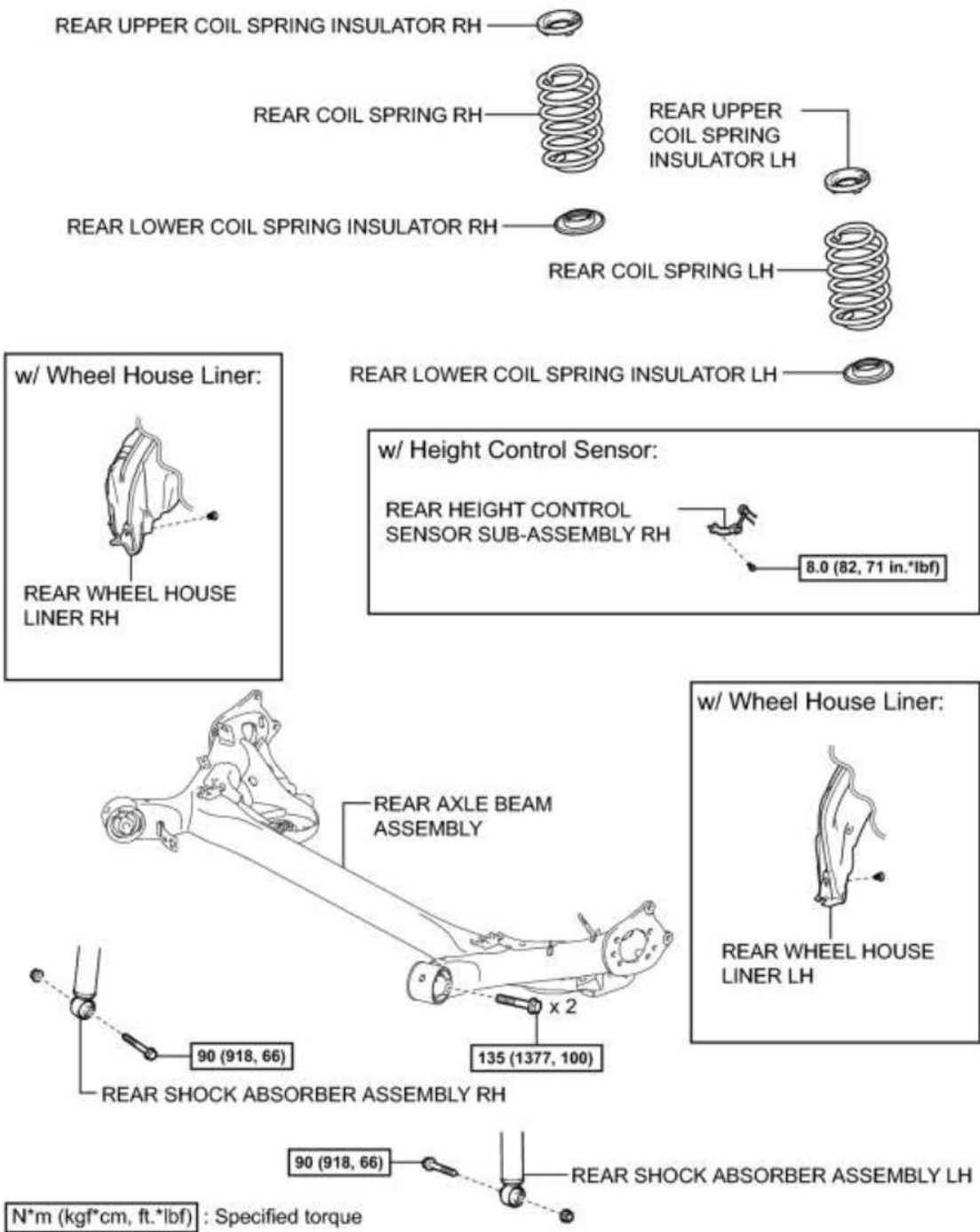
ILLUSTRATION



ILLUSTRATION

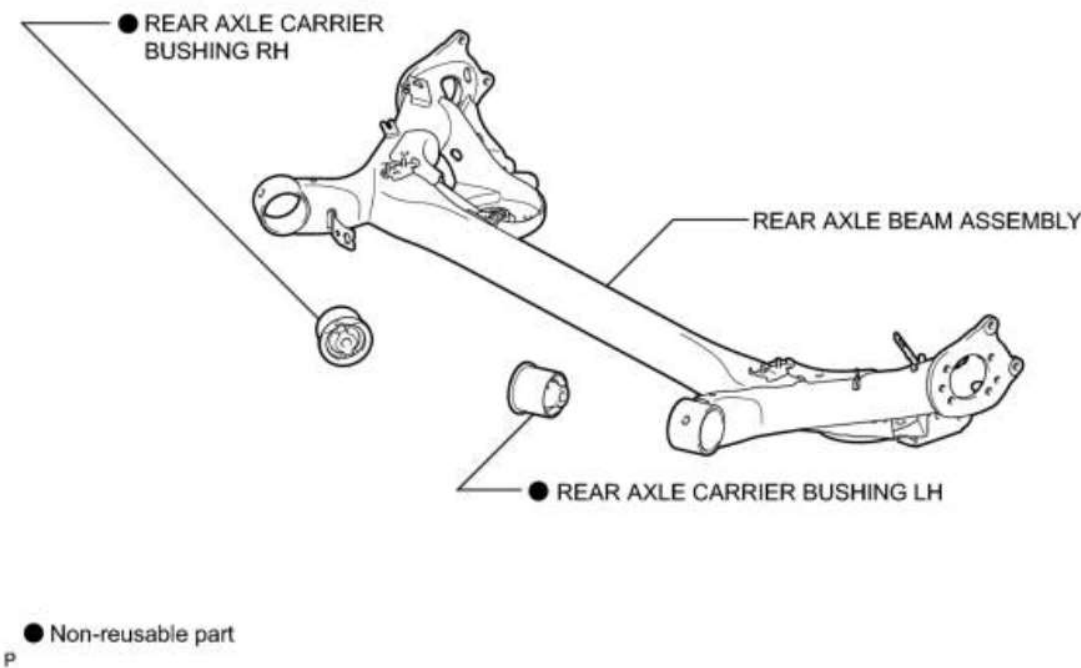
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ILLUSTRATION



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REMOVAL

1. DISABLE BRAKE CONTROL INFO

2. REMOVE REAR WHEELS

3. REMOVE FRONT DOOR SCUFF PLATE LH INFO

4. REMOVE COWL SIDE TRIM SUB-ASSEMBLY LH INFO

5. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY INFO

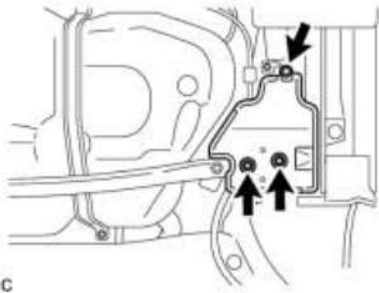
6. LOOSEN PARKING BRAKE CABLE INFO

7. DRAIN BRAKE FLUID

NOTICE:

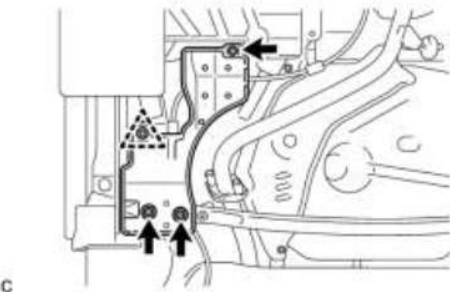
If brake fluid leaks onto any painted surface, immediately wash it off.

8. REMOVE REAR FLOOR SIDE MEMBER COVER LH (w/ Floor Under Cover)



(a) Remove the nut, 2 bolts and rear floor side member cover LH.

9. REMOVE REAR FLOOR SIDE MEMBER COVER RH (w/ Floor Under Cover)



(a) Remove the 3 bolts.

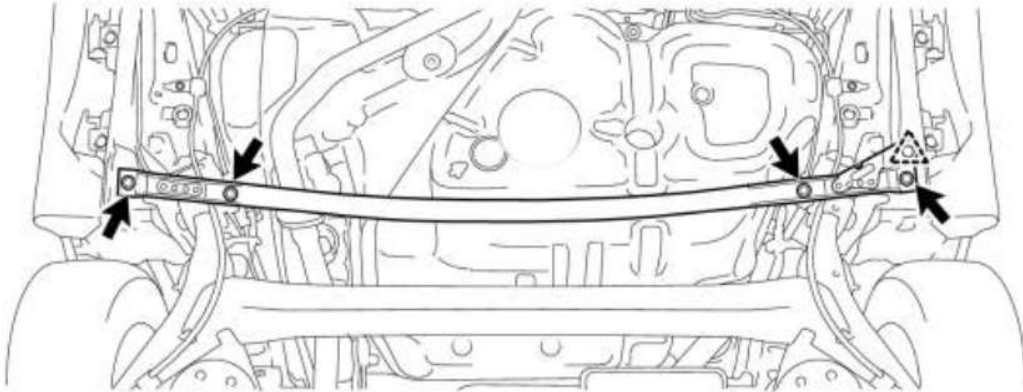
(b) Disengage the clip and remove the rear floor side member cover RH.

10. REMOVE REAR SUSPENSION BRACE SUB-ASSEMBLY

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(a) Remove the 4 bolts.



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(b) Disengage the clip and remove the rear suspension brace sub-assembly.

11. DISCONNECT REAR SPEED SENSOR WIRE (for LH Side) INFO

12. DISCONNECT REAR SPEED SENSOR WIRE (for RH Side)

HINT:

Perform the same procedure as for the LH side.

13. SEPARATE REAR SPEED SENSOR WIRE (for LH Side) INFO

14. SEPARATE REAR SPEED SENSOR WIRE (for RH Side)

HINT:

Perform the same procedure as for the LH side.

15. DISCONNECT NO. 3 PARKING BRAKE CABLE ASSEMBLY INFO

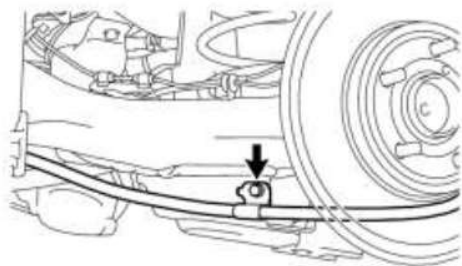
16. DISCONNECT NO. 2 PARKING BRAKE CABLE ASSEMBLY

HINT:

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

17. SEPARATE NO. 3 PARKING BRAKE CABLE ASSEMBLY

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



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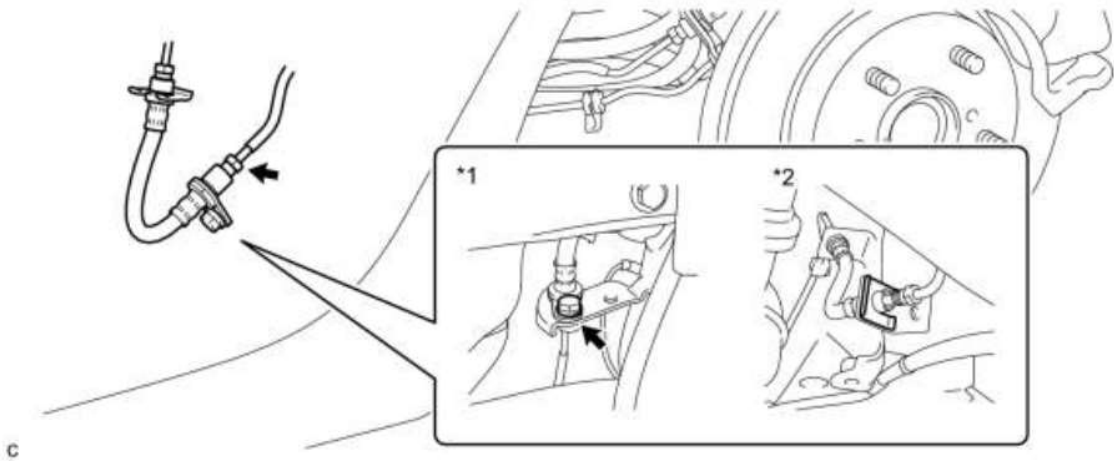
18. SEPARATE NO. 2 PARKING BRAKE CABLE ASSEMBLY

HINT:

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

19. SEPARATE REAR BRAKE TUBE FLEXIBLE HOSE

(a) Using a union nut wrench, disconnect the 2 brake lines while holding the rear brake tube flexible hose with a wrench.



Text in Illustration

*1	LH Side	*2	RH Side
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NOTICE:

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

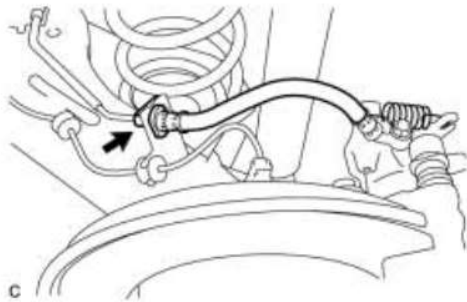
(b) for LH Side

(1) Remove the bolt and separate the rear brake tube flexible hose from the rear axle beam assembly.

(c) for RH Side

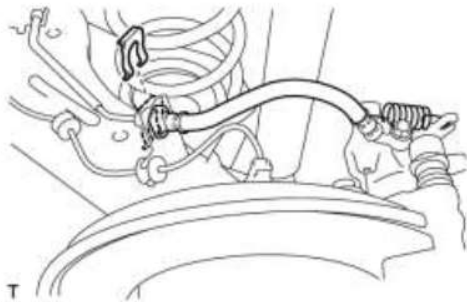
(1) Remove the clip and separate the rear brake tube flexible hose from the rear axle beam assembly.

20. REMOVE REAR DISC BRAKE CALIPER ASSEMBLY LH

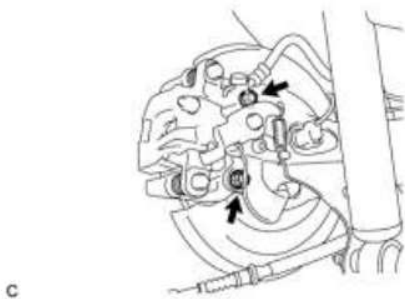


(a) Using a union nut wrench, disconnect the brake line while holding the rear flexible hose LH with a wrench.

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



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



(c) Remove the 2 bolts and rear disc brake caliper assembly LH with rear flexible hose LH.

21. REMOVE REAR DISC BRAKE CALIPER ASSEMBLY RH

HINT:

Perform the same procedure as for the LH side.

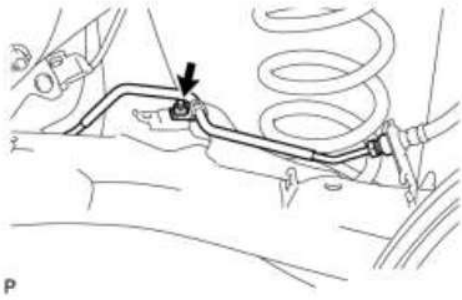
22. REMOVE REAR DISC (for LH Side) INFO

23. REMOVE REAR DISC (for RH Side)

HINT:

Perform the same procedure as for the LH side.

24. REMOVE REAR NO. 4 BRAKE TUBE



(a) Remove the nut and rear No. 4 brake tube from the rear axle beam assembly.

25. REMOVE REAR NO. 3 BRAKE TUBE

HINT:

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

26. REMOVE REAR AXLE HUB AND BEARING ASSEMBLY LH_ INFO

27. REMOVE REAR AXLE HUB AND BEARING ASSEMBLY RH

HINT:

Perform the same procedure as for the LH side.

28. SEPARATE REAR WHEEL HOUSE LINER LH (w/ Wheel House Liner)_ INFO

29. SEPARATE REAR WHEEL HOUSE LINER RH (w/ Wheel House Liner)

HINT:

Perform the same procedure as for the LH side.

30. SEPARATE REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY RH (w/ Height Control Sensor) INFO

31. REMOVE REAR COIL SPRING LH_ INFO

32. REMOVE REAR COIL SPRING RH

HINT:

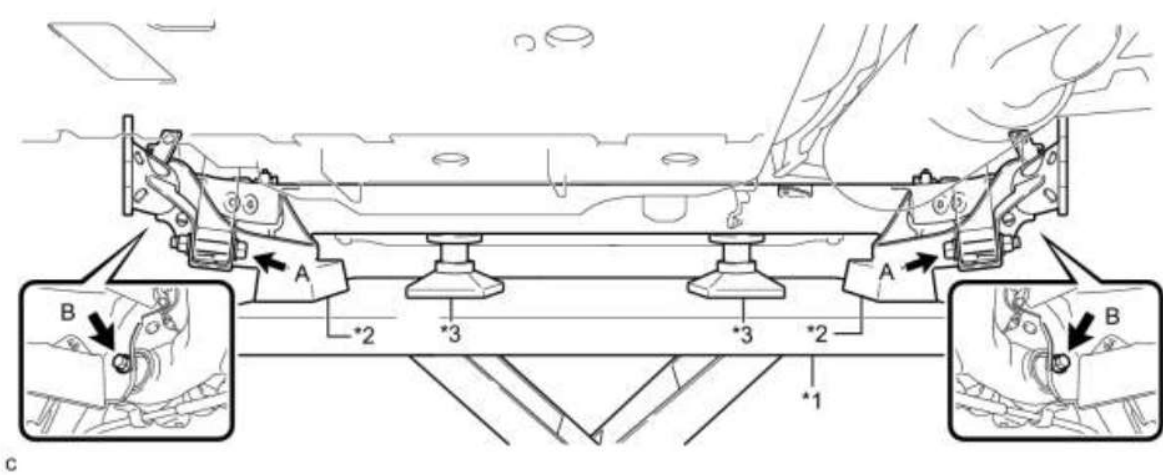
Perform the same procedure as for the LH side.

33. REMOVE REAR UPPER COIL SPRING INSULATOR LH

34. REMOVE REAR UPPER COIL SPRING INSULATOR RH

35. REMOVE REAR LOWER COIL SPRING INSULATOR LH
36. REMOVE REAR LOWER COIL SPRING INSULATOR RH
37. REMOVE REAR AXLE BEAM ASSEMBLY

(a) Support the rear axle beam assembly with a jack using 2 wooden blocks and 2 attachments or equivalent tools to replicate standard vehicle height conditions as shown in the illustration.



Text in Illustration

*1	Jack	*2	Wooden Block
*3	Attachment	-	-

NOTICE:

Make sure to secure the rear axle beam assembly to prevent it from dropping.

(b) Remove the 2 bolts (A) and 2 nuts while holding the 2 nuts and separate the rear axle beam assembly from the rear shock absorber assemblies LH and RH.

NOTICE:

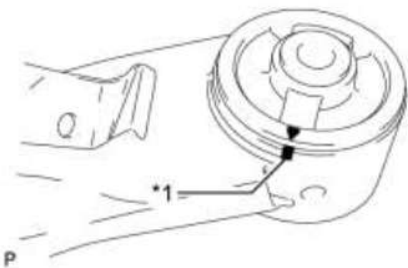
Since the stopper nuts are used, turn the bolts.

(c) Remove the 2 bolts (B) and rear axle beam assembly.

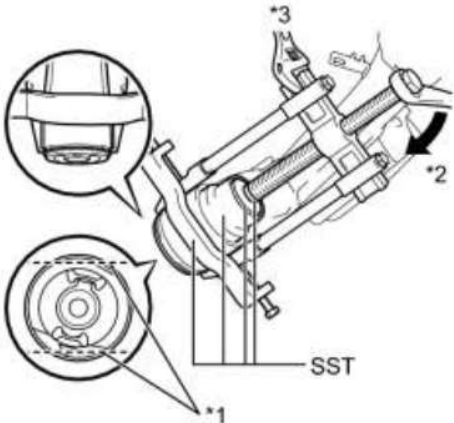
38. REMOVE REAR AXLE CARRIER BUSHING LH

(a) Put a matchmark on the rear axle beam assembly so that the mark aligns with the arrow mark on the rear axle carrier bushing LH. (If the rear axle beam assembly is reused.)

Text in Illustration



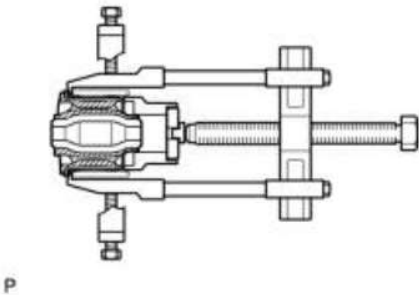
*1	Matchmark
----	-----------



(b) Using a chisel and hammer, bend the 2 ribs on the rear axle carrier bushing LH.

Text in Illustration

*1	Bend Portion
*2	Turn
*3	Hold



NOTICE:
When removing the rear axle carrier bushing, do not erase the matchmark on the rear axle beam assembly.

(c) Using SST, remove the rear axle carrier bushing LH from the rear axle beam assembly.

SST: 09710-26011

09710-05061

SST: 09950-40011

09951-04020

09952-04010

09953-04030

09954-04020

09955-04051

09957-04010

09958-04011

SST: 09950-60010

09951-00530

NOTICE:

Apply grease to the threads and tip of the SST center bolt before use.

39. REMOVE REAR AXLE CARRIER BUSHING RH

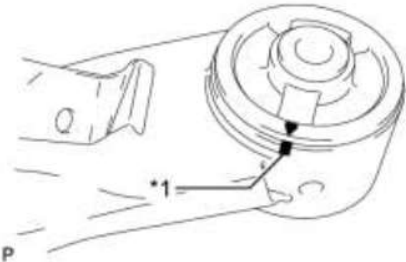
HINT:

Perform the same procedure as for the LH side.

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. (If the rear axle beam assembly is reused.)



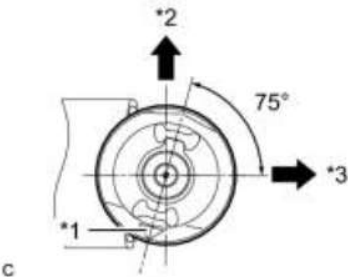
Text in Illustration

*1	Matchmark
----	-----------

NOTICE:

Be sure to install the rear axle carrier bushing in the same direction as it was before removal.

The rear axle carrier bushing has to be installed in a specific direction.
(b) Temporarily install the new rear axle carrier bushing LH as shown in the illustration.



Text in Illustration

*1	Mark
*2	Upper Side of the Vehicle
*3	Front of the Vehicle

NOTICE:

Be sure to install the rear axle carrier bushing in the same direction as it was before removal.

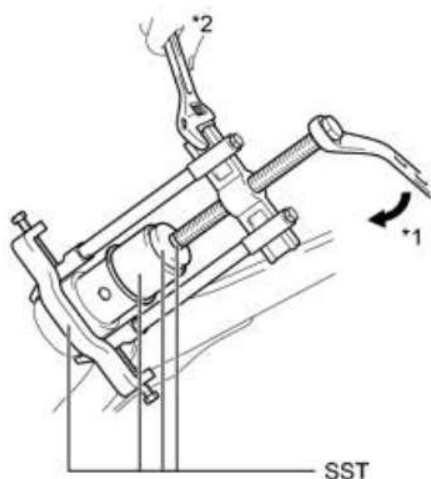
The rear axle carrier bushing has to be installed in a specific direction.
(c) Using SST, install the rear axle carrier bushing LH to the rear axle beam assembly.

Text in Illustration

*1	Turn
*2	Hold

SST: 09710-04101

SST: 09950-40011



09951-04020

09952-04010

09953-04030

09954-04020

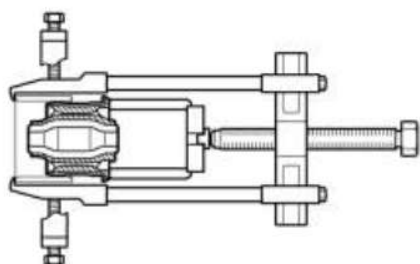
09955-04051

09957-04010

09958-04011

SST: 09950-60010

09951-00620



- Do not damage the rubber portion when installing the rear axle carrier bushing.
- Apply grease to the threads and tip of the SST center bolt before use.

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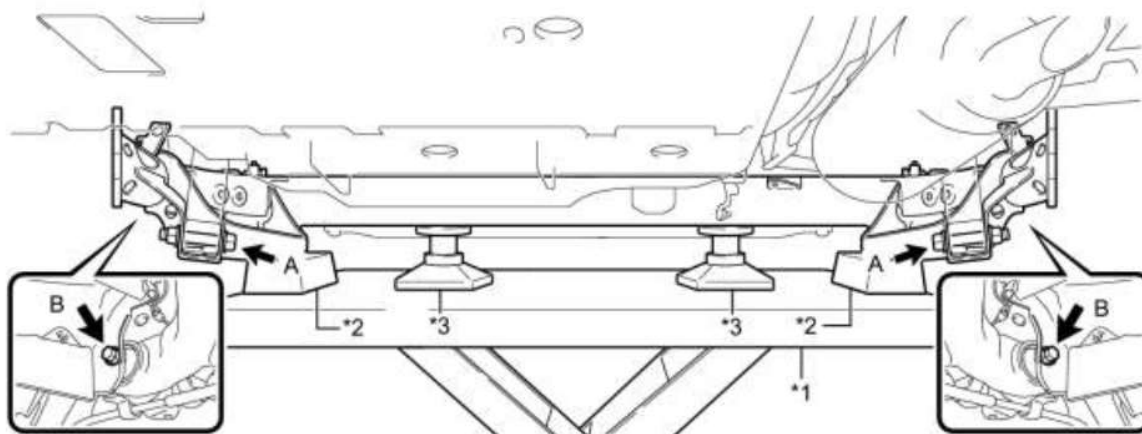
2. INSTALL REAR AXLE CARRIER BUSHING RH

HINT:

Perform the same procedure as for the LH side.

3. TEMPORARILY TIGHTEN REAR AXLE BEAM ASSEMBLY

(a) Slowly jack up the rear axle beam assembly with a jack using 2 wooden blocks and 2 attachments or equivalent tools and temporarily install the rear axle beam assembly to the body with the 2 bolts (B).



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Text in Illustration

*1	Jack	*3	Attachment
*2	Wooden Block	-	-

NOTICE:

Make sure to secure the rear axle beam assembly to prevent it from dropping.

(b) Temporarily tighten the rear axle beam assembly to the rear shock absorber assemblies LH and RH with the 2 bolts (A) and 2 nuts.

NOTICE:

Since the stopper nuts are used, turn the bolts.

HINT:

Insert the bolts with the threaded end facing the outside of the vehicle.

4. INSTALL REAR UPPER COIL SPRING INSULATOR LH_ [INFO](#)

5. INSTALL REAR UPPER COIL SPRING INSULATOR RH

HINT:

Perform the same procedure as for the LH side.

6. INSTALL REAR LOWER COIL SPRING INSULATOR LH

7. INSTALL REAR LOWER COIL SPRING INSULATOR RH

8. INSTALL REAR COIL SPRING LH_ [INFO](#)

9. INSTALL REAR COIL SPRING RH

HINT:

Perform the same procedure as for the LH side.

10. INSTALL REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY RH (w/ Height Control Sensor)_ [INFO](#)

11. INSTALL REAR AXLE HUB AND BEARING ASSEMBLY LH_ [INFO](#)

12. INSTALL REAR AXLE HUB AND BEARING ASSEMBLY RH

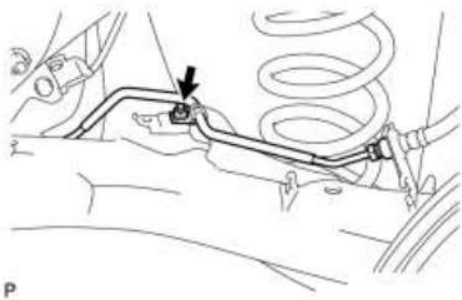
HINT:

Perform the same procedure as for the LH side.

13. INSTALL REAR NO. 4 BRAKE TUBE

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(a) Install the rear No. 4 brake tube to the rear axle beam assembly with the nut.

Torque: **8.5 N·m (87 kgf·cm, 75in·lbf)**

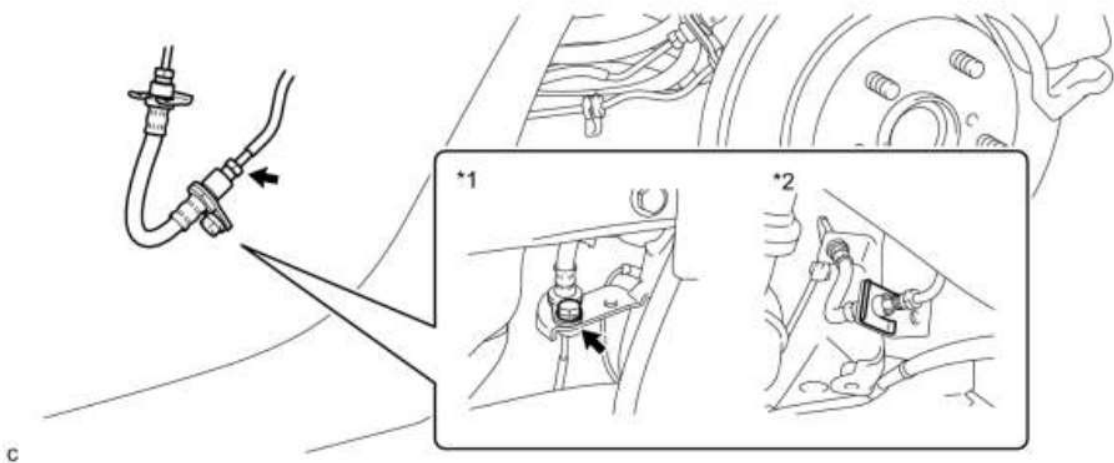
14. INSTALL REAR NO. 3 BRAKE TUBE

HINT:

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

15. CONNECT REAR BRAKE TUBE FLEXIBLE HOSE

(a) for LH Side



Text in Illustration

*1	LH Side	*2	RH Side
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(1) Install the rear brake tube flexible hose with the bolt.

Torque: **19 N·m (194 kgf·cm, 14ft·lbf)**

(b) for RH Side

(1) Install the rear brake tube flexible hose with a new clip.

NOTICE:

Install the clip as far as it will go.

(c) Using a union nut wrench, connect the 2 brake lines to the rear brake tube flexible hose.

Torque: **15 N·m (155 kgf·cm, 11ft·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 from the connecting points.
- Use the formula to calculate special torque values for situations where the union nut wrench is combined with a torque wrench **INFO**.

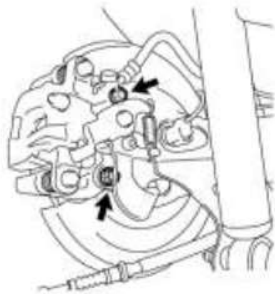
16. INSTALL REAR DISC (for LH Side) **INFO**

17. INSTALL REAR DISC (for RH Side)

HINT:

Perform the same procedure as for the LH side.

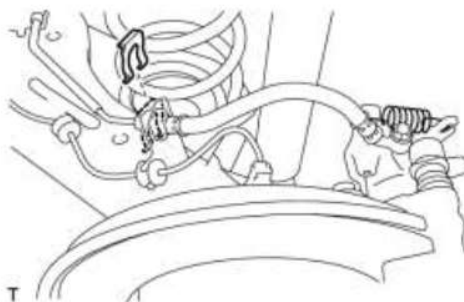
18. INSTALL REAR DISC BRAKE CALIPER ASSEMBLY LH



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(a) Install the rear disc brake caliper assembly LH with rear flexible hose LH with the 2 bolts.

Torque: **57 N·m (585 kgf·cm, 42ft·lbf)**



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(b) Connect the rear flexible hose LH to the rear axle beam assembly with a new clip.

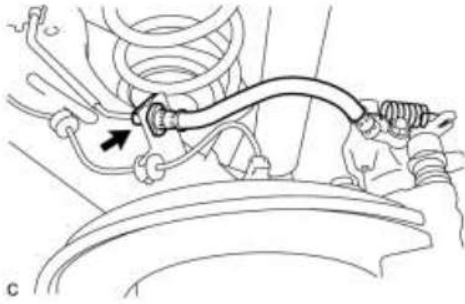
NOTICE:

Install the clip as far as it will go.

(c) Using a union nut wrench, connect the brake line to the rear flexible hose LH while holding the rear flexible hose LH with a wrench.

Torque: **15 N·m (155 kgf·cm, 11ft·lbf)**

- 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 connecting points.

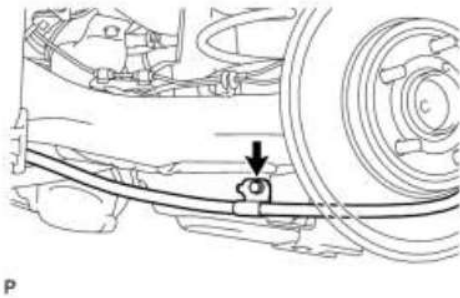
- Use the formula to calculate special torque values for situations where the union nut wrench is combined with a torque wrench **INFO**.

19. INSTALL REAR DISC BRAKE CALIPER ASSEMBLY RH

HINT:

Perform the same procedure as for the LH side.

20. INSTALL NO. 3 PARKING BRAKE CABLE ASSEMBLY



(a) Install the No. 3 parking brake cable assembly to the rear axle beam assembly with the bolt.

Torque: **6.0 N·m (61 kgf·cm, 53in·lbf)**

21. INSTALL NO. 2 PARKING BRAKE CABLE ASSEMBLY

HINT:

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

22. CONNECT NO. 3 PARKING BRAKE CABLE ASSEMBLY_ **INFO**

23. CONNECT NO. 2 PARKING BRAKE CABLE ASSEMBLY

HINT:

Perform the same procedure as for the LH side.

24. INSTALL REAR SPEED SENSOR WIRE (for LH Side)_ **INFO**

25. INSTALL REAR SPEED SENSOR WIRE (for RH Side)

HINT:

Perform the same procedure as for the LH side.

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26. CONNECT REAR SPEED SENSOR WIRE (for LH Side) INFO

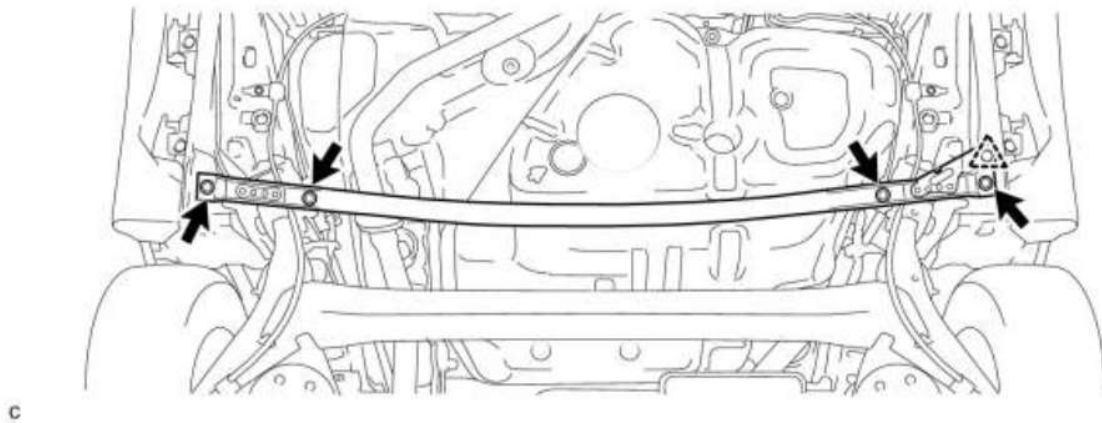
27. CONNECT REAR SPEED SENSOR WIRE (for RH Side)

HINT:

Perform the same procedure as for the LH side.

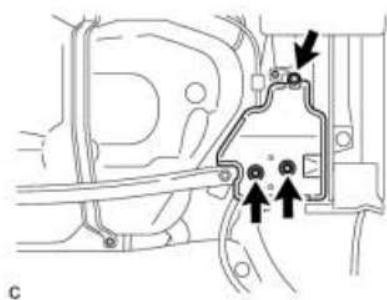
28. INSTALL REAR SUSPENSION BRACE SUB-ASSEMBLY

- (a) Install the rear suspension brace sub-assembly with the 4 bolts and clip.



Torque: **54 N·m (551 kgf·cm, 40ft·lbf)**

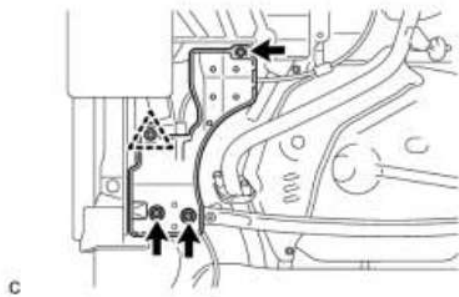
29. INSTALL REAR FLOOR SIDE MEMBER COVER LH (w/ Floor Under Cover)



- (a) Install the rear floor side member cover LH with the nut and 2 bolts.

30. INSTALL REAR FLOOR SIDE MEMBER COVER RH (w/ Floor Under Cover)

- (a) Engage the clip to temporarily install the rear floor side member cover RH.



(b) Install the rear floor side member cover RH with the 3 bolts.

31. ADJUST PARKING BRAKE

INFO

32. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY_

INFO

33. INSTALL COWL SIDE TRIM SUB-ASSEMBLY LH_

INFO

34. INSTALL FRONT DOOR SCUFF PLATE LH_

INFO

35. BLEED BRAKE LINE_

INFO

36. PERFORM INITIALIZATION AND CALIBRATION OF LINEAR SOLENOID VALVE

HINT:

If the brake control has been disabled, make sure to perform initialization and calibration of the linear solenoid valve

INFO

37. INSTALL REAR WHEELS

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

38. STABILIZE SUSPENSION_

INFO

39. FULLY TIGHTEN REAR AXLE BEAM ASSEMBLY_

INFO

40. INSTALL REAR WHEEL HOUSE LINER LH (w/ Wheel House Liner)_

INFO

41. INSTALL REAR WHEEL HOUSE LINER RH (w/ Wheel House Liner)

HINT:

Perform the same procedure as for the LH side.

42. INSPECT REAR WHEEL ALIGNMENT

INFO

43. PLACE FRONT WHEELS FACING STRAIGHT AHEAD

44. PERFORM YAW RATE AND ACCELERATION SENSOR CALIBRATION

INFO

45. CHECK FOR SPEED SENSOR SIGNAL

INFO

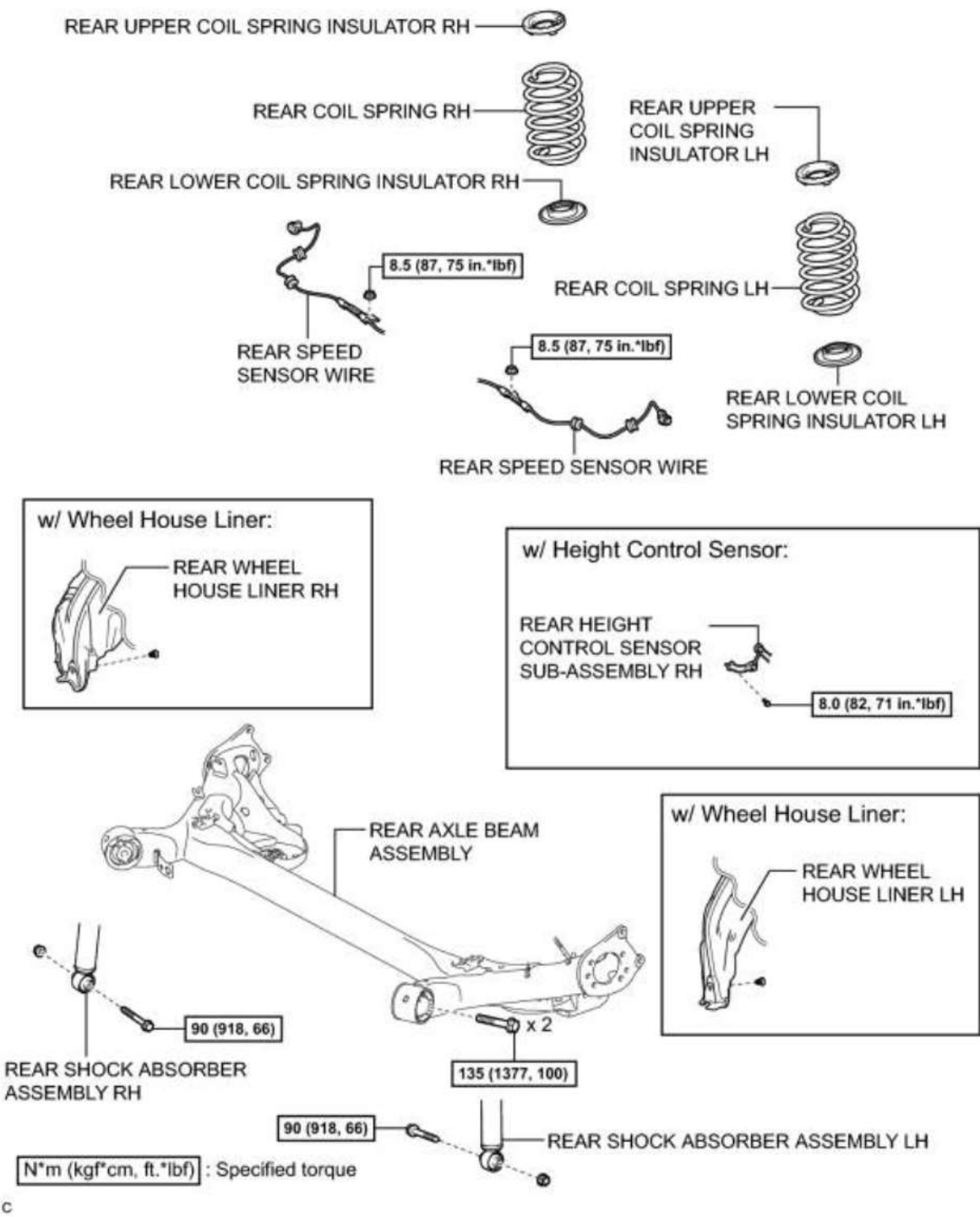
46. PERFORM INITIALIZATION (w/ Height Control Sensor)

NOTICE:

Some systems need to be initialized after the rear height control sensor sub-assembly RH is replaced INFO.

COMPONENTS

ILLUSTRATION



REMOVAL

1. REMOVE REAR WHEELS

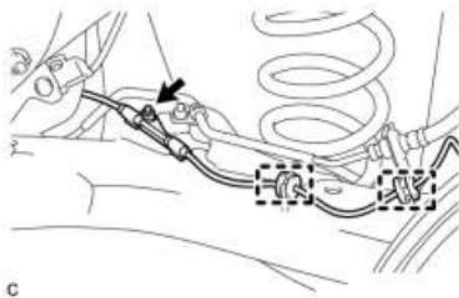
2. DISCONNECT REAR SPEED SENSOR WIRE (for LH Side) INFO

3. DISCONNECT REAR SPEED SENSOR WIRE (for RH Side)

HINT:

Perform the same procedure as the LH side.

4. SEPARATE REAR SPEED SENSOR WIRE (for LH Side)



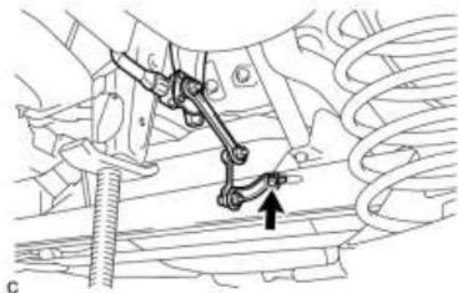
(a) Remove the nut and separate the 2 clamps and rear speed sensor wire.

5. SEPARATE REAR SPEED SENSOR WIRE (for RH Side)

HINT:

Perform the same procedure as the LH side.

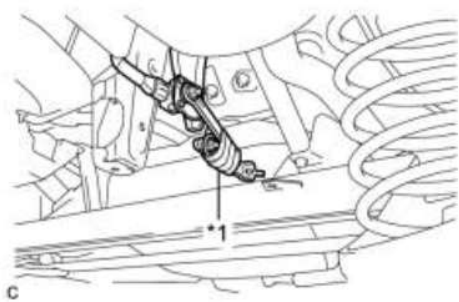
6. SEPARATE REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY RH (w/ Height Control Sensor)



(a) Remove the bolt and separate the rear height control sensor sub-assembly RH from the rear axle beam assembly.

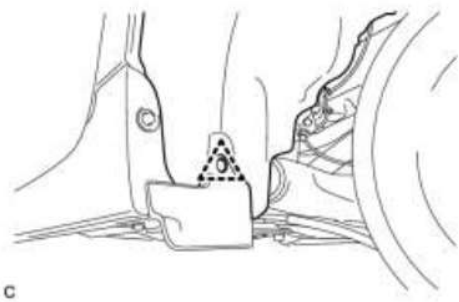
(b) Using a vinyl tape, secure the rear height control sensor sub-assembly RH as shown in the illustration.

Text in Illustration



*1	Vinyl Tape
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7. SEPARATE REAR WHEEL HOUSE LINER LH (w/ Wheel House Liner)



(a) Remove the clip and turn back the rear wheel house liner LH to separate the rear wheel house liner LH.

8. SEPARATE REAR WHEEL HOUSE LINER RH (w/ Wheel House Liner)

HINT:

Perform the same procedure as the LH side.

9. REMOVE REAR COIL SPRING LH

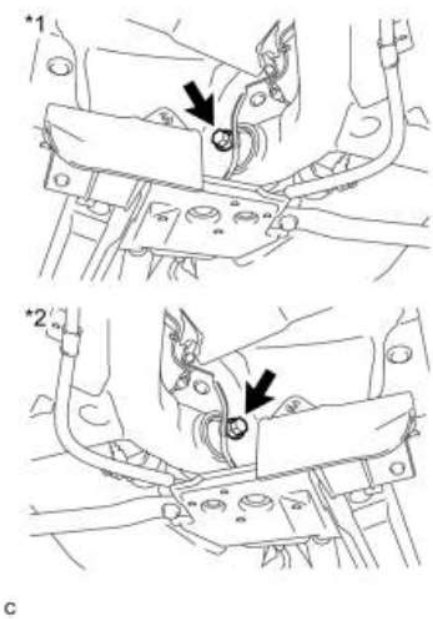
(a) Loosen the 2 bolts.

Text in Illustration

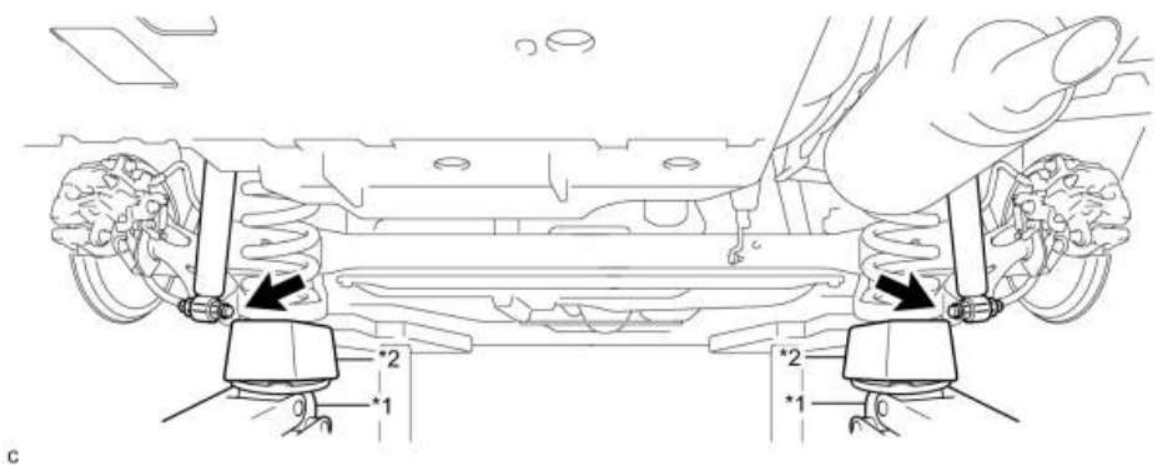
*1	LH Side
*2	RH Side

NOTICE:

Do not remove the bolts.



(b) Support the spring seat of the rear axle beam assembly using 2 jacks and 2 wooden blocks.



Text in Illustration

*1	Jack	*2	Wooden Block
----	------	----	--------------

CAUTION:

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

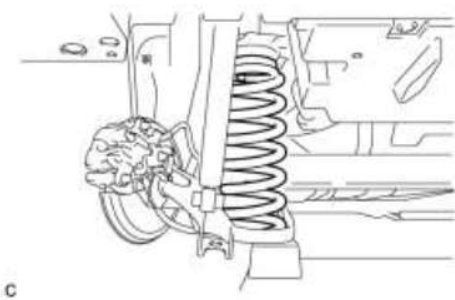
HINT:

Support the rear shock absorber at a position where it compresses by approximately 20 to 30 mm (0.787 to 1.18 in.).

(c) Remove the 2 bolts while holding the 2 nuts and separate the rear axle beam assembly from the rear shock absorber assemblies LH and RH.

NOTICE:

Since the stopper nuts are used, turn the bolts.

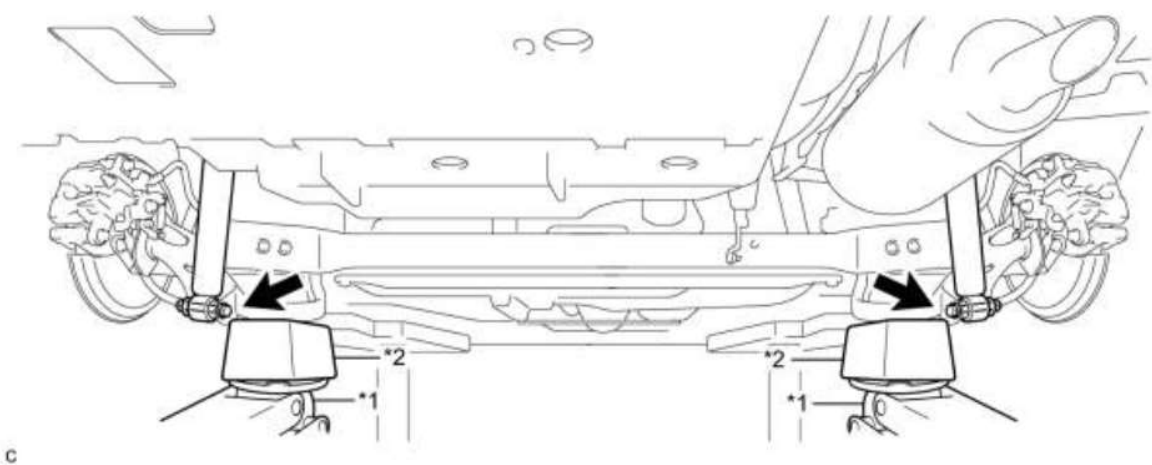


(d) Slowly lower the rear axle beam assembly using 2 jacks and 2 wooden blocks, and remove the rear coil spring LH.

NOTICE:

When moving the rear axle beam assembly beyond full rebound, make sure that the rear axle beam assembly is not out of position for more than 10 minutes.

(e) Slowly jack up the rear axle beam assembly using 2 jacks and 2 wooden blocks, and temporarily tighten the rear axle beam assembly to the rear shock absorber assemblies LH and RH with the 2 bolts and 2 nuts.



Text in Illustration

*1	Jack	*2	Wooden Block
----	------	----	--------------

NOTICE:

Since the stopper nuts are used, turn the bolts.

10. REMOVE REAR COIL SPRING RH

HINT:

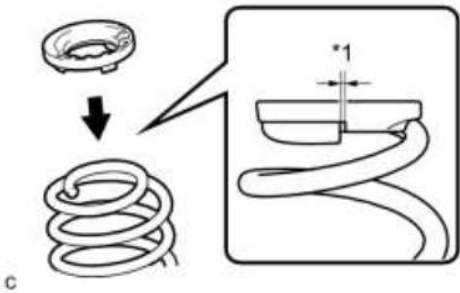
Perform the same procedure as the LH side.

11. REMOVE REAR UPPER COIL SPRING INSULATOR LH
12. REMOVE REAR UPPER COIL SPRING INSULATOR RH
13. REMOVE REAR LOWER COIL SPRING INSULATOR LH
14. REMOVE REAR LOWER COIL SPRING INSULATOR RH

INSTALLATION

1. INSTALL REAR UPPER COIL SPRING INSULATOR LH

(a) Install the rear upper coil spring insulator LH to the rear coil spring LH.



Text in Illustration

*1	10 mm or less
----	---------------

NOTICE:

Install the rear upper coil spring insulator so that the dimension between the stopper and the upper end of the rear coil spring is 10 mm (0.394 in.) or less.

2. INSTALL REAR UPPER COIL SPRING INSULATOR RH

HINT:

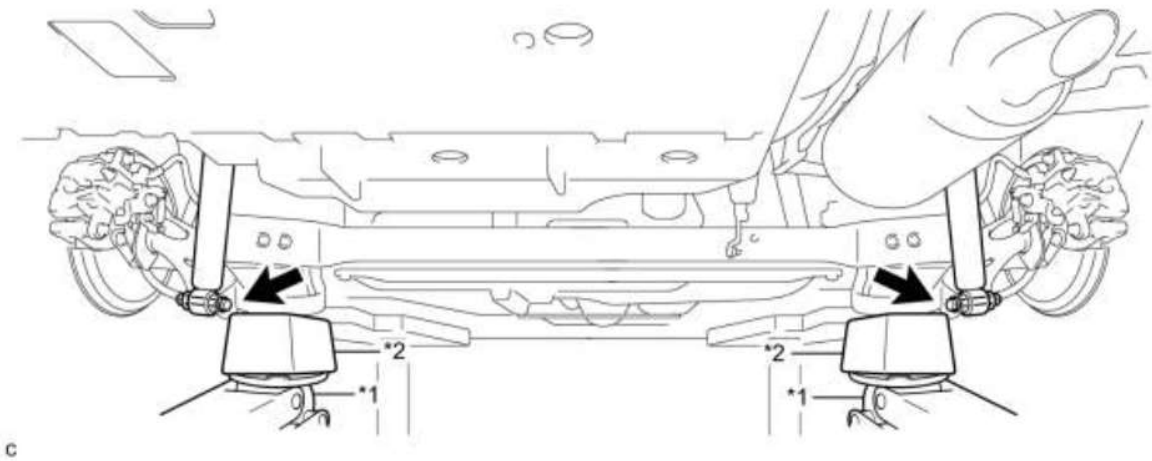
Perform the same procedure as the LH side.

3. INSTALL REAR LOWER COIL SPRING INSULATOR LH

4. INSTALL REAR LOWER COIL SPRING INSULATOR RH

5. INSTALL REAR COIL SPRING LH

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



Text in Illustration

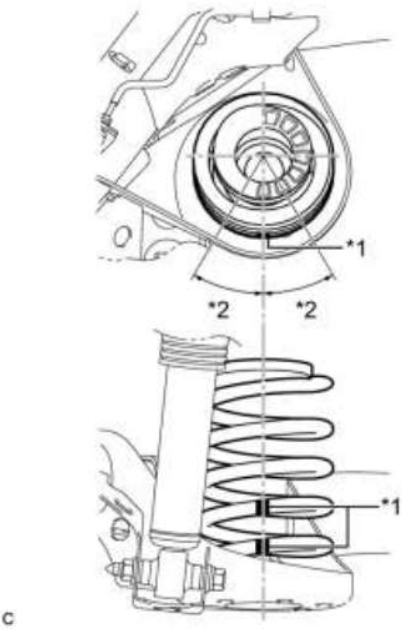
*1	Jack	*2	Wooden Block
----	------	----	--------------

(b) Remove the 2 bolts while holding the 2 nuts and separate the rear axle beam assembly from the rear shock absorber assemblies LH and RH.

NOTICE:

Since the stopper nuts are used, turn the bolts.

(c) Slowly lower the rear axle beam assembly using 2 jacks and 2 wooden blocks.



(d) Set the rear coil spring LH to the rear axle beam assembly.

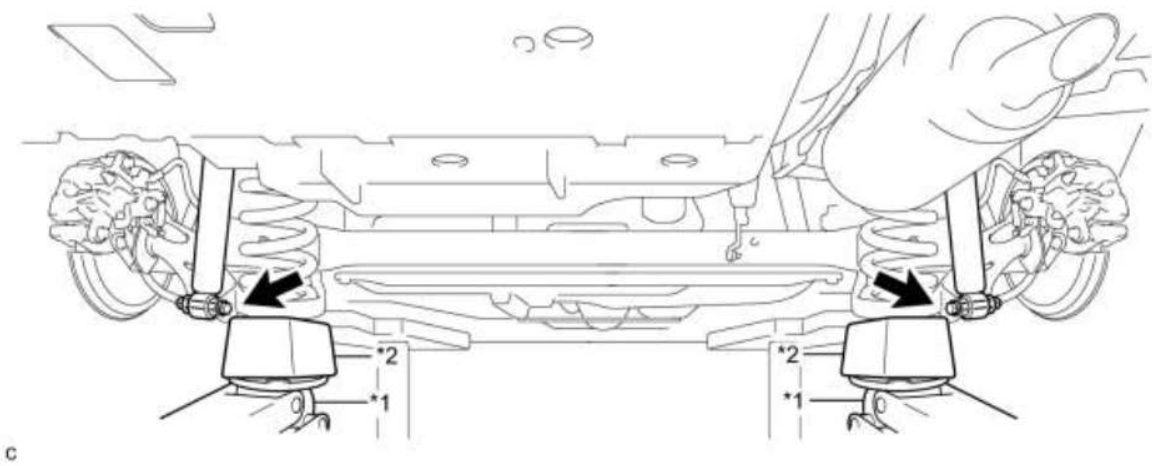
Text in Illustration

*1	Identification Mark
*2	30° or less

NOTICE:

Set the rear coil spring so that the identification marks are positioned as shown in the illustration.

(e) Slowly jack up the rear axle beam assembly using 2 jacks and 2 wooden blocks and temporarily install the rear axle beam assembly and rear coil spring LH with the 2 bolts and 2 nuts.



Text in Illustration

*1	Jack	*2	Wooden Block
----	------	----	--------------

NOTICE:

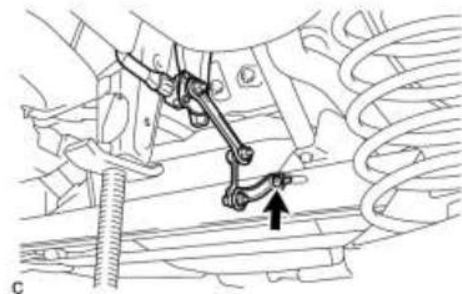
Since the stopper nuts are used, turn the bolts.

HINT:

Insert the bolt with the threaded end facing the outside of the vehicle.

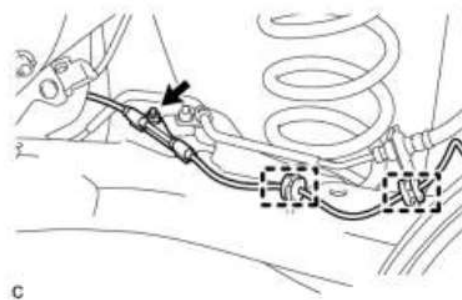
6. INSTALL REAR COIL SPRING RH**HINT:**

Perform the same procedure as the LH side.

7. INSTALL REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY RH (w/ Height Control Sensor)

(a) Install the rear height control sensor sub-assembly RH to the rear axle beam assembly with the bolt.

Torque: **8.0 N·m (82 kgf·cm, 71in·lbf)**

8. INSTALL REAR SPEED SENSOR WIRE (for LH Side)

(a) Install the rear speed sensor wire to the rear axle beam assembly with the nut and 2 clamps.

Torque: **8.5 N·m (87 kgf·cm, 75in·lbf)**

NOTICE:

Do not twist the rear speed sensor wire when installing it.

9. INSTALL REAR SPEED SENSOR WIRE (for RH Side)**HINT:**

Perform the same procedure as the LH side.

10. CONNECT REAR SPEED SENSOR WIRE (for LH Side)**INFO****11. CONNECT REAR SPEED SENSOR WIRE (for RH Side)**

HINT:

Perform the same procedure as the LH side.

12. INSTALL REAR WHEELS

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

13. STABILIZE SUSPENSION_ INFO

14. FULLY TIGHTEN REAR AXLE BEAM ASSEMBLY



(a) Fully tighten the 2 bolts.

Text in Illustration

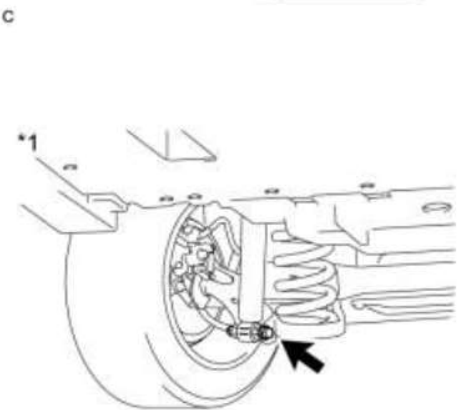
*1	LH Side
*2	RH Side



Torque: **135 N·m (1377 kgf·cm, 100ft·lbf)**

NOTICE:

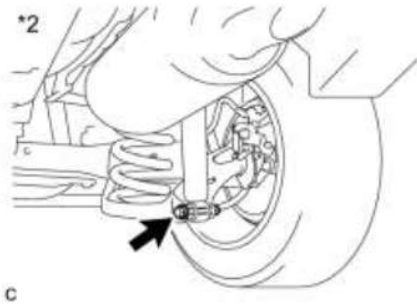
The final torque must be applied under the standard vehicle height conditions.



(b) Fully tighten the 2 bolts.

Text in Illustration

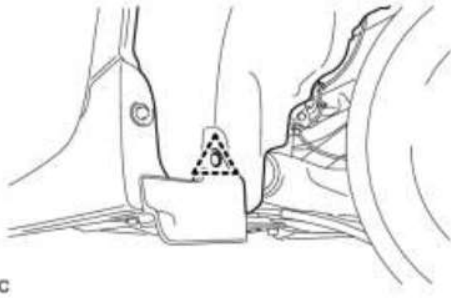
*1	LH Side
*2	RH Side



Torque: **90 N·m (918 kgf·cm, 66ft·lbf)**

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

15. INSTALL REAR WHEEL HOUSE LINER LH (w/ Wheel House Liner)



(a) Install the rear wheel house liner LH with the clip.

16. INSTALL REAR WHEEL HOUSE LINER RH (w/ Wheel House Liner)

HINT:

Perform the same procedure as the LH side.

17. INSPECT REAR WHEEL ALIGNMENT

INFO

18. PLACE FRONT WHEELS FACING STRAIGHT AHEAD

19. PERFORM YAW RATE AND ACCELERATION SENSOR CALIBRATION

INFO

20. CHECK FOR SPEED SENSOR SIGNAL

INFO

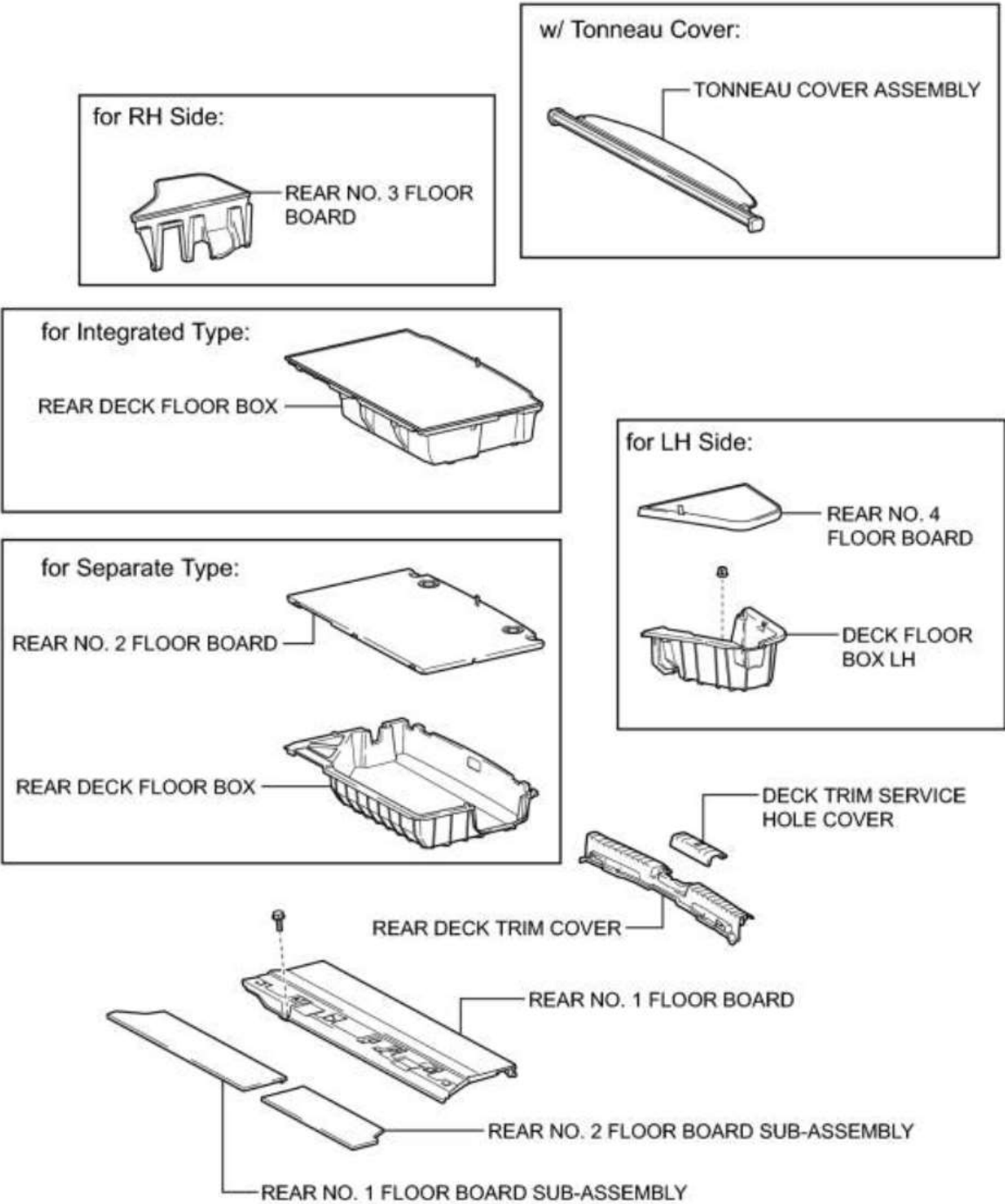
21. PERFORM INITIALIZATION (w/ Height Control Sensor)

NOTICE:

Some systems need to be initialized after the rear height control sensor sub-assembly RH is replaced INFO.

COMPONENTS

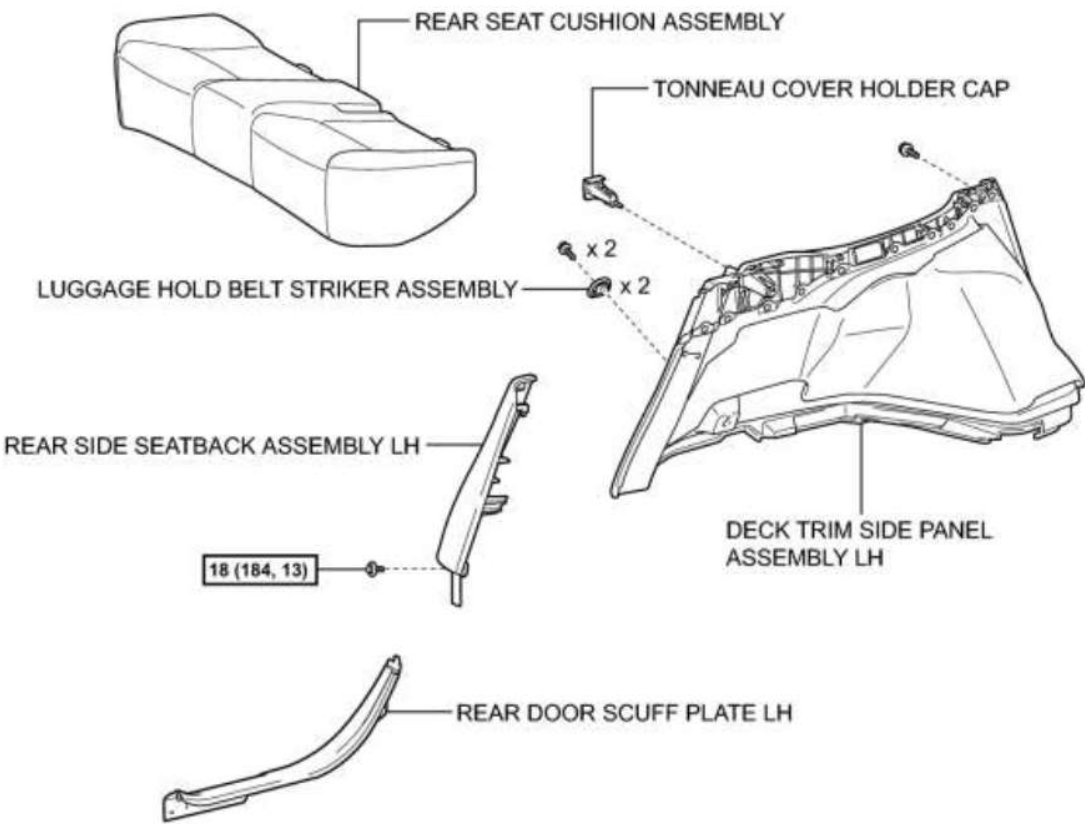
ILLUSTRATION



c

ILLUSTRATION

for LH Side:

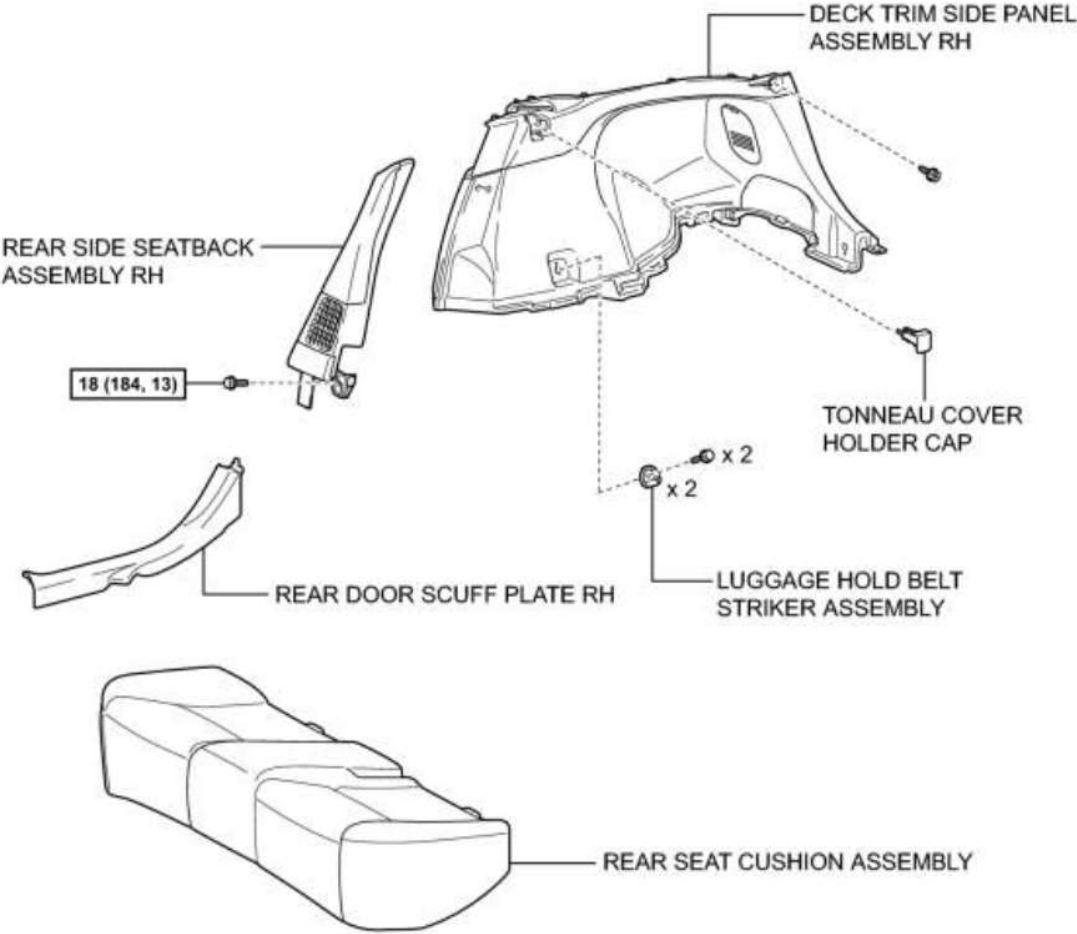


N*m (kgf*cm, ft.*lbf) : Specified torque

c

ILLUSTRATION

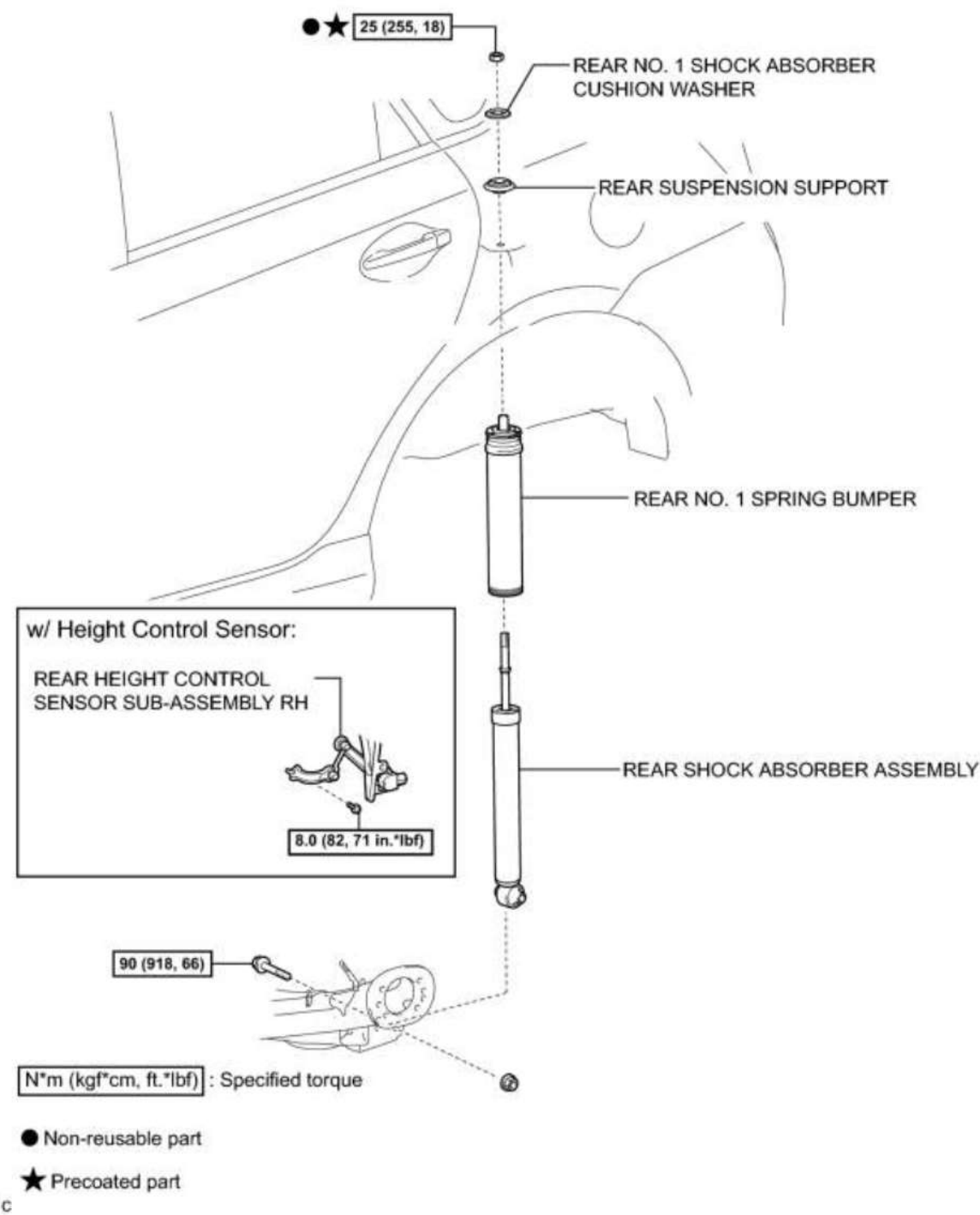
for RH Side:



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

c

ILLUSTRATION



cardiagn.com

REMOVAL

HINT:

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

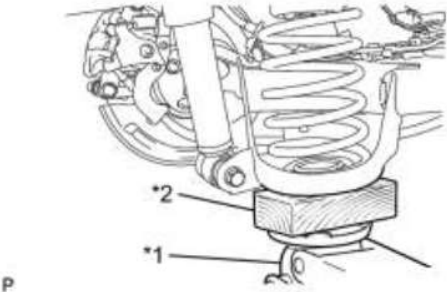
1. REMOVE TONNEAU COVER ASSEMBLY (w/ Tonneau Cover) [INFO](#)
2. REMOVE REAR NO. 2 FLOOR BOARD (for Separate Type) [INFO](#)
3. REMOVE REAR DECK FLOOR BOX [INFO](#)
4. REMOVE REAR NO. 4 FLOOR BOARD (for LH Side) [INFO](#)
5. REMOVE DECK FLOOR BOX LH (for LH Side) [INFO](#)
6. REMOVE REAR NO. 3 FLOOR BOARD (for RH Side) [INFO](#)
7. REMOVE REAR NO. 1 FLOOR BOARD SUB-ASSEMBLY [INFO](#)
8. REMOVE REAR NO. 2 FLOOR BOARD SUB-ASSEMBLY [INFO](#)
9. REMOVE REAR NO. 1 FLOOR BOARD [INFO](#)
10. REMOVE DECK TRIM SERVICE HOLE COVER [INFO](#)
11. REMOVE REAR DECK TRIM COVER [INFO](#)
12. REMOVE REAR DOOR SCUFF PLATE LH (for LH Side) [INFO](#)
13. REMOVE REAR DOOR SCUFF PLATE RH (for RH Side) [INFO](#)
14. REMOVE REAR SEAT CUSHION ASSEMBLY [INFO](#)
15. REMOVE REAR SIDE SEATBACK ASSEMBLY LH (for LH Side) [INFO](#)
16. REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (for LH Side) [INFO](#)
17. REMOVE TONNEAU COVER HOLDER CAP (for LH Side) [INFO](#)
18. REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (for LH Side) [INFO](#)
19. REMOVE REAR SIDE SEATBACK ASSEMBLY RH (for RH Side) [INFO](#)
20. REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (for RH Side) [INFO](#)
21. REMOVE TONNEAU COVER HOLDER CAP (for RH Side) [INFO](#)

22. REMOVE DECK TRIM SIDE PANEL ASSEMBLY RH (for RH Side) INFO
23. REMOVE REAR WHEEL
24. SEPARATE REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY RH (w/ Height Control Sensor) INFO
25. REMOVE REAR NO. 1 SHOCK ABSORBER CUSHION WASHER

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

Text in Illustration

*1	Jack
*2	Wooden Block



CAUTION:

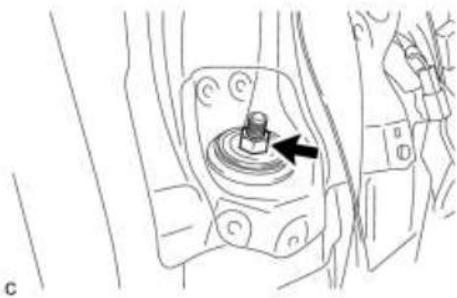
Do not jack up the rear axle beam assembly too high as the vehicle may fall.

NOTICE:

Keep supporting the rear axle beam assembly with a jack until the installation of the rear shock absorber assembly has been completed.

HINT:

Support the rear shock absorber at a position where it compresses by approximately 20 to 30 mm (0.787 to 1.18 in.).

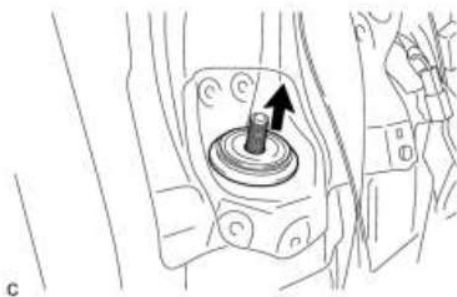


(b) Using a hexagon socket wrench, secure the rear shock absorber rod and remove the lock nut.

NOTICE:

Securely insert the hexagon socket wrench to the rear shock absorber rod to prevent damage to the rear shock absorber assembly when removing the nut.

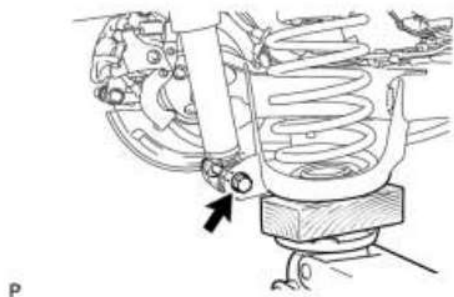
(c) Remove the rear No. 1 shock absorber cushion washer.



26. REMOVE REAR SUSPENSION SUPPORT

(a) Remove the rear suspension support.

27. REMOVE REAR SHOCK ABSORBER ASSEMBLY

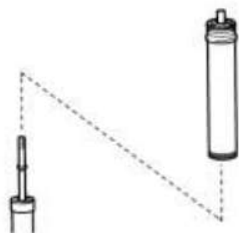


(a) Remove the bolt while holding the nut and remove the rear shock absorber assembly.

NOTICE:

Since the stopper nut is used, turn the bolt.

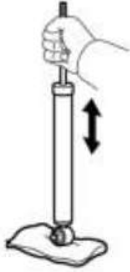
28. REMOVE REAR NO. 1 SPRING BUMPER



(a) Remove the rear No. 1 spring bumper from the rear shock absorber assembly.

INSPECTION

1. INSPECT REAR SHOCK ABSORBER ASSEMBLY



(a) Compress and extend the rear 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.

NOTICE:

When disposing of the rear shock absorber assembly, see DISPOSAL

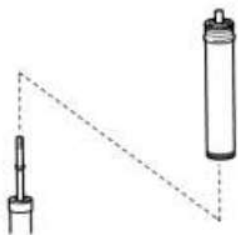
INFO

INSTALLATION

HINT:

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

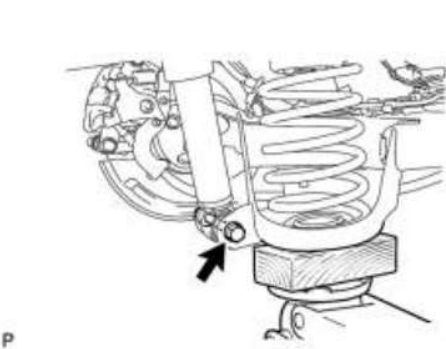
1. INSTALL REAR NO. 1 SPRING BUMPER



(a) Install the rear No. 1 spring bumper to the rear shock absorber assembly.

2. TEMPORARILY TIGHTEN REAR SHOCK ABSORBER ASSEMBLY

(a) Insert the upper end of the rear shock absorber assembly with the rear No. 1 spring bumper to the vehicle body.



(b) Temporarily tighten the rear shock absorber assembly to the rear axle beam assembly with the bolt and nut.

NOTICE:

Since the stopper nut is used, turn the bolt.

HINT:

Insert the bolt with the threaded end facing the outside of the vehicle.

3. INSTALL REAR SUSPENSION SUPPORT

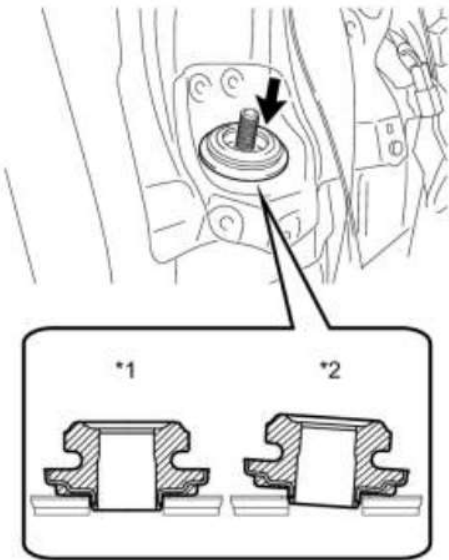
(a) Install the rear suspension support.

Text in Illustration

*1	Correct
*2	Incorrect

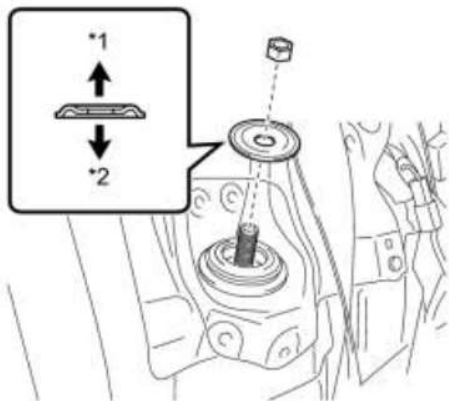
NOTICE:

Make sure that the rear suspension support is correctly installed as shown in the illustration.



c

4. INSTALL REAR NO. 1 SHOCK ABSORBER CUSHION WASHER



c

(a) Apply a few drops of adhesive to the threads of a new nut.

Text in Illustration

*1	Upper Side
*2	Lower Side

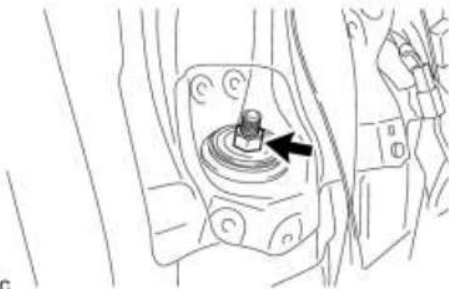
Adhesive:

Toyota genuine adhesive 1324, three bond 1324 or equivalent

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

NOTICE:

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



c

(c) Using a union nut wrench, fully tighten the lock nut while holding the rod of the rear shock absorber assembly with a hexagon socket wrench.

Torque: 25 N·m (255 kgf·cm, 18ft·lbf)

- Securely insert the hexagon socket wrench to the rear shock absorber rod to prevent damage to the rear shock absorber assembly when tightening the nut.
- Use the formula to calculate special torque values for situations

where the union nut wrench is combined with a torque wrench

INFO

5. INSTALL REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY RH (w/ Height Control Sensor)_

INFO
6. INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH (for LH Side)_

INFO
7. INSTALL TONNEAU COVER HOLDER CAP (for LH Side)_

INFO
8. INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY (for LH Side)_

INFO
9. INSTALL REAR SIDE SEATBACK ASSEMBLY LH (for LH Side)_

INFO
10. INSTALL DECK TRIM SIDE PANEL ASSEMBLY RH (for RH Side)_

INFO
11. INSTALL TONNEAU COVER HOLDER CAP (for RH Side)_

INFO
12. INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY (for RH Side)_

INFO
13. INSTALL REAR SIDE SEATBACK ASSEMBLY RH (for RH Side)_

INFO
14. INSTALL REAR SEAT CUSHION ASSEMBLY_

INFO
15. INSTALL REAR DOOR SCUFF PLATE LH (for LH Side)_

INFO
16. INSTALL REAR DOOR SCUFF PLATE RH (for RH Side)_

INFO
17. INSTALL REAR DECK TRIM COVER_

INFO
18. INSTALL DECK TRIM SERVICE HOLE COVER_

INFO
19. INSTALL REAR NO. 1 FLOOR BOARD_

INFO
20. INSTALL REAR NO. 2 FLOOR BOARD SUB-ASSEMBLY_

INFO
21. INSTALL REAR NO. 1 FLOOR BOARD SUB-ASSEMBLY_

INFO
22. INSTALL DECK FLOOR BOX LH (for LH Side)_

INFO
23. INSTALL REAR NO. 4 FLOOR BOARD (for LH Side)_

INFO
24. INSTALL REAR NO. 3 FLOOR BOARD (for RH Side)_

INFO
25. INSTALL REAR DECK FLOOR BOX_

INFO
26. INSTALL REAR NO. 2 FLOOR BOARD (for Separate Type)_

INFO
27. INSTALL TONNEAU COVER ASSEMBLY (w/ Tonneau Cover)_

INFO

2010 Toyota Prius

Repair Manual

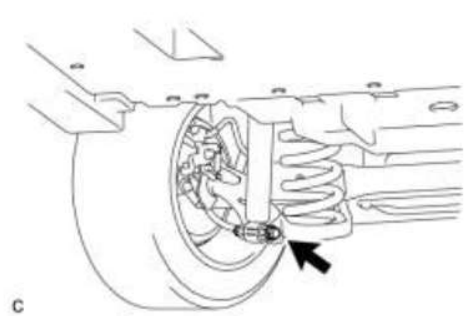
28. INSTALL REAR WHEEL

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

29. STABILIZE SUSPENSION

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

30. FULLY TIGHTEN REAR SHOCK ABSORBER ASSEMBLY



- (a) Fully tighten the bolt.

Torque: **90 N·m (918 kgf·cm, 66ft·lbf)**

- Since the stopper nut is used, turn the bolt.
- The final torque must be applied under the standard vehicle height conditions.

31. PERFORM INITIALIZATION (w/ Height Control Sensor)

NOTICE:

Some systems need to be initialized after the rear height control sensor sub-assembly RH is replaced INFO.

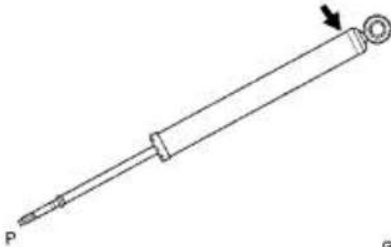
DISPOSAL

1. DISPOSE OF REAR SHOCK ABSORBER ASSEMBLY

(a) Disposal using a drill

(1) Fully extend the piston rod and secure the rear shock absorber assembly at an angle in a vise.

(2) Using a drill, slowly make a hole at the position indicated by the arrow in the illustration to discharge the gas inside.



NOTICE:

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

HINT:

The gas is colorless, odorless and non-poisonous.