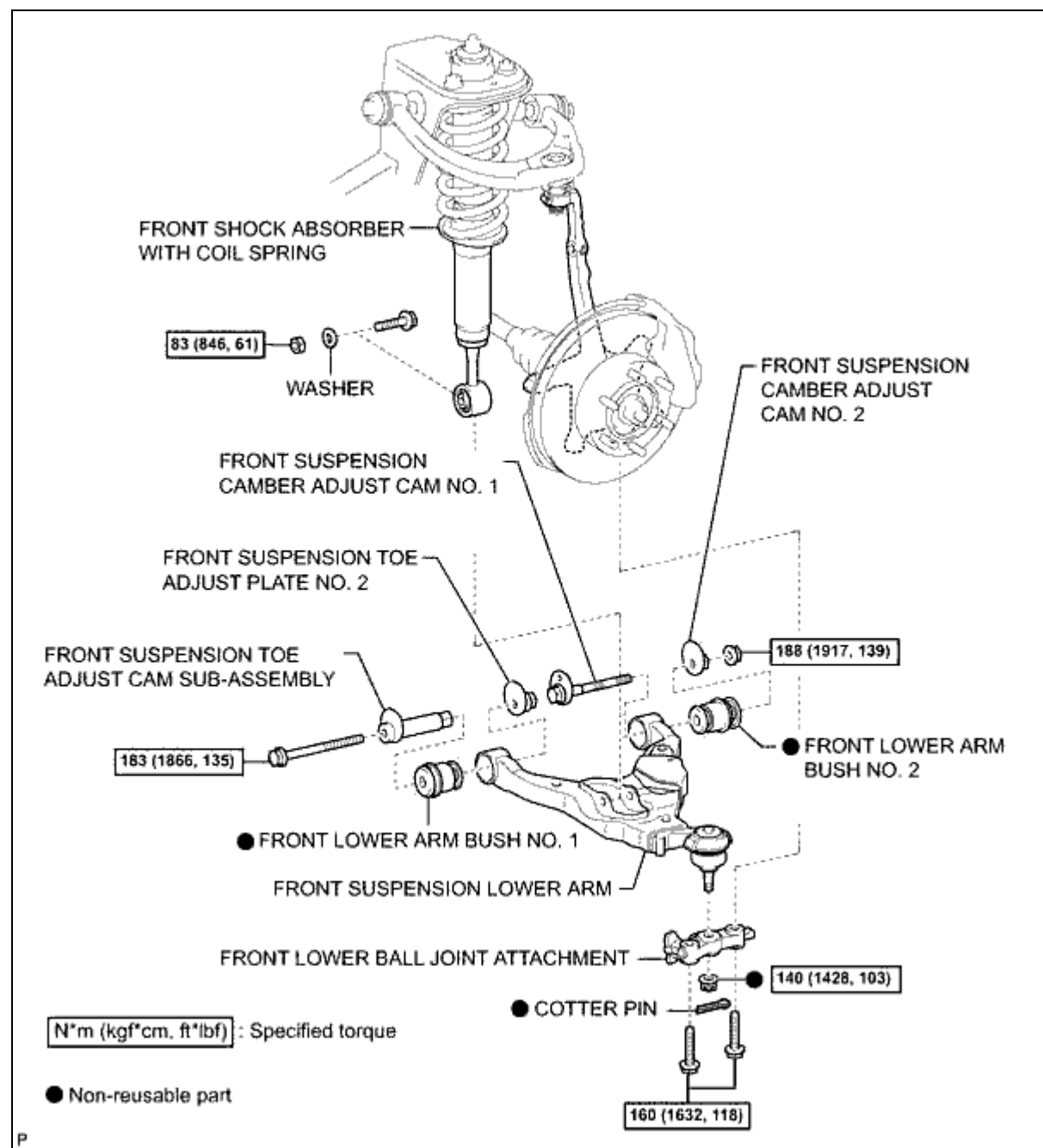


Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016KN00KX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT LOWER SUSPENSION ARM: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



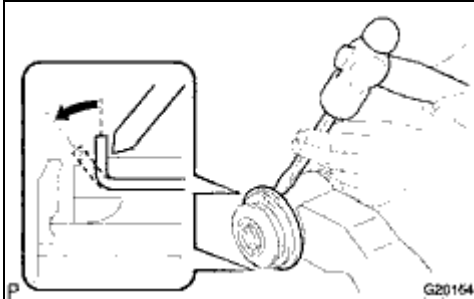
P



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016KP00KX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT LOWER SUSPENSION ARM: DISASSEMBLY; 2016 MY Tacoma [08/2015 -]		

DISASSEMBLY

1. REMOVE FRONT LOWER ARM BUSH NO. 1



(a) Using a hammer and chisel, raise the flange of the bush diagonally as shown in the illustration.

(b) Using SST, remove the lower arm bush.

SST: 09950-40011

09951-04010

09952-04010

09953-04020

09954-04010

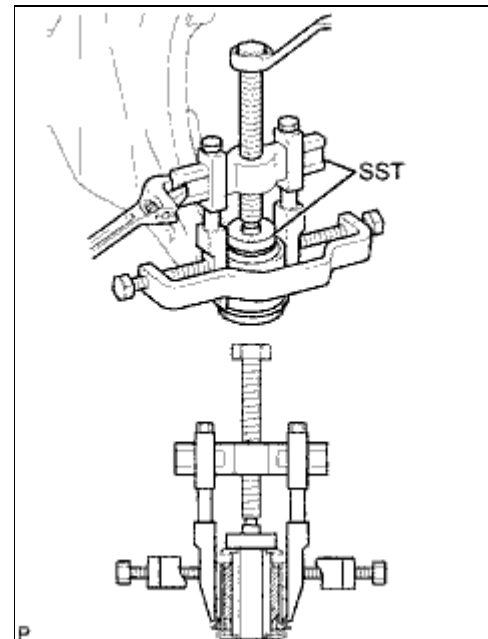
09955-04011

09957-04010

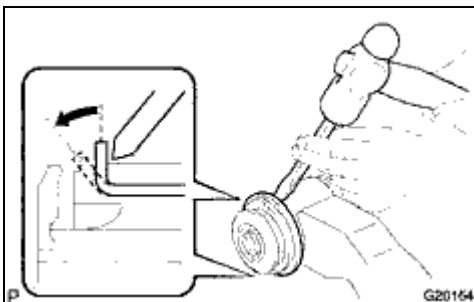
09958-04011

SST: 09950-60010

09951-00470



2. REMOVE FRONT LOWER ARM BUSH NO. 2



(a) Using a hammer and chisel, raise the flange of the bush diagonally as shown in the illustration.

(b) Using SST, remove the lower arm bush.

SST: 09950-40011

09951-04010

09952-04010

09953-04020

09954-04010

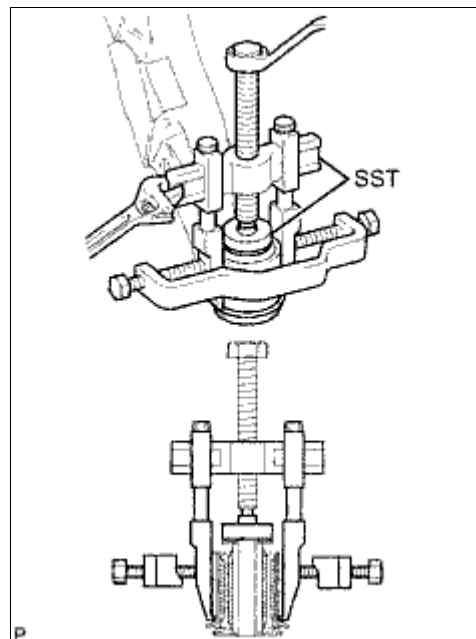
09955-04011

09957-04010

09958-04011

SST: 09950-60010

09951-00520



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT LOWER SUSPENSION ARM: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

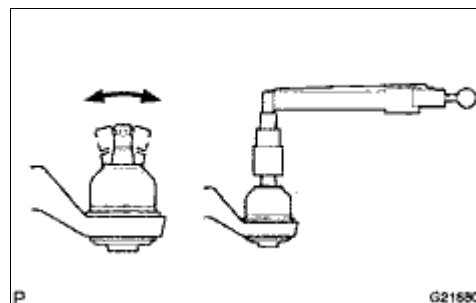
1. INSPECT FRONT SUSPENSION LOWER ARM

- Flip the ball joint stud back and forth 5 times, as shown in the illustration, before installing the nut.
- Using a torque wrench, turn the nut continuously at a rate of 2 to 4 seconds per turn and take the torque reading on the 5th turn.

Torque:

1.0 to 3.0 N·m {3 to 45 kgf·cm, 3 to 39in·lbf}

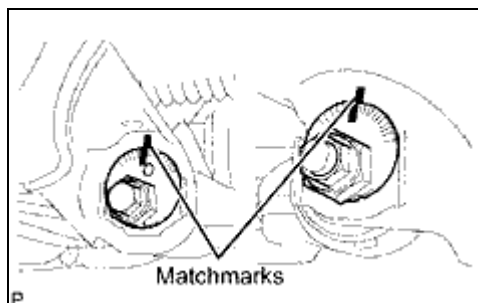
- Check for any cracks and grease leakage on the ball joint dust cover.



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT LOWER SUSPENSION ARM: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. TEMPORARILY TIGHTEN FRONT SUSPENSION LOWER ARM



- Align the matchmarks on the camber adjust cam No. 2 and toe adjust cam. Temporarily tighten the bolt and the nut.
- Install the front lower ball joint attachment, a new nut and a new cotter pin.

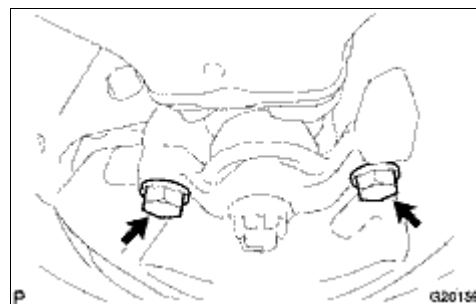
Torque:

140 N·m {1428 kgf·cm, 103ft·lbf}

- Install the front lower ball joint attachment with the 2 bolts.

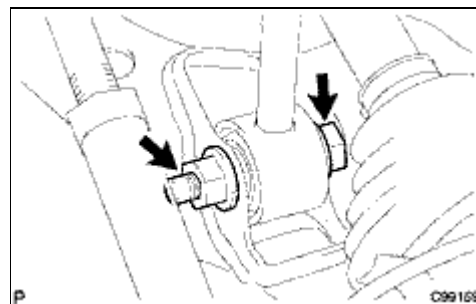
Torque:

160 N·m {1632 kgf·cm, 118ft·lbf}



2. TEMPORARILY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING

- Install the front shock absorber with coil spring, bolt and washer, and temporarily tighten the nut.



3. INSTALL FRONT WHEEL

Torque:

113 N·m {1152 kgf·cm, 83ft·lbf}

4. STABILIZE FRONT SUSPENSION

- Lower the vehicle.
- Bounce the vehicle up and down several times to stabilize the suspension.

5. FULLY TIGHTEN FRONT SUSPENSION LOWER ARM

- (a) Fully tighten the bolt and nut.

Text in Illustration

*1	Front Side
*2	Rear Side

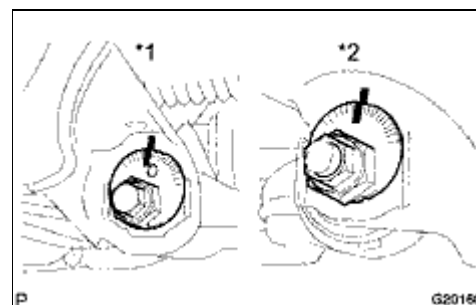
Torque:

for Front Side -

183 N·m {1866 kgf·cm, 135ft·lbf}

for Rear Side -

188 N·m {1917 kgf·cm, 139ft·lbf}

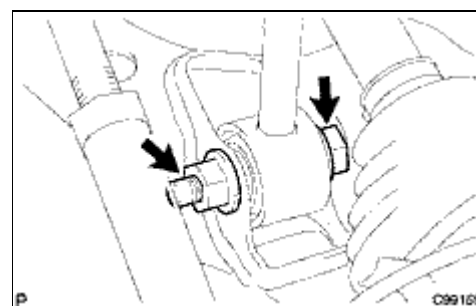


6. FULLY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING

- (a) Fully tighten the nut.

Torque:

83 N·m {846 kgf·cm, 61ft·lbf}



7. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT

INFO



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT LOWER SUSPENSION ARM: REASSEMBLY; 2016 MY Tacoma [08/2015 -]		

REASSEMBLY

1. INSTALL FRONT LOWER ARM BUSH NO. 1

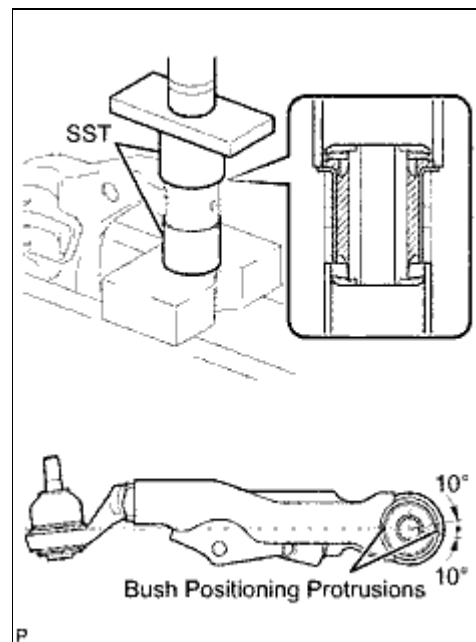
- (a) Install a new lower arm bush using SST, a press and steel plate.

SST: 09631-12090

SST: 09631-32020

NOTICE:

Push the lower arm bush in until the bush positioning protrusions come to the positions shown in the illustration.



2. INSTALL FRONT LOWER ARM BUSH NO. 2

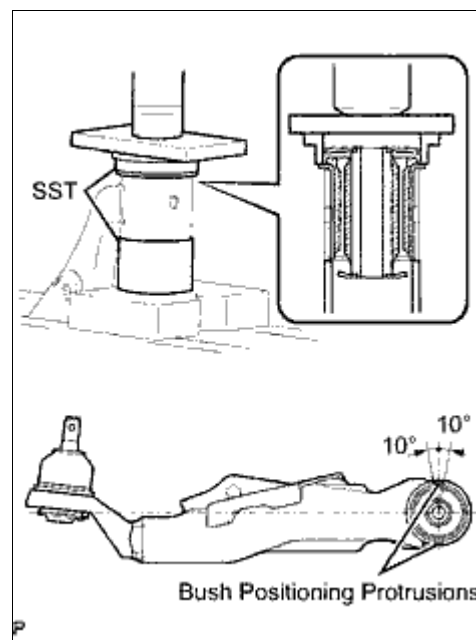
- (a) Install a new lower arm bush using SST, a press and steel plate.

SST: 09502-12010

SST: 09631-12090

NOTICE:

Push the lower arm bush in until the bush positioning protrusions come to the positions shown in the illustration.



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT LOWER SUSPENSION ARM: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. REMOVE FRONT WHEEL

2. INSPECT FRONT SUSPENSION LOWER ARM

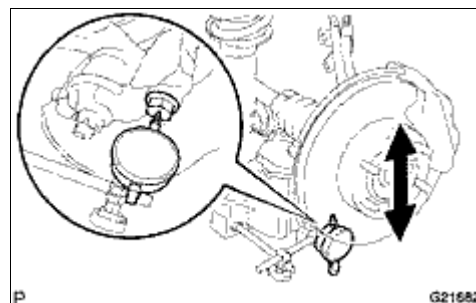
- Install the hub nuts onto the disc.
- Using a dial indicator, check the lower ball joint for excessive play when you push the hub nuts up and down with a force of 294 N (30 kgf, 66 lbf).

Maximum:

0.5 mm (0.020 in.)

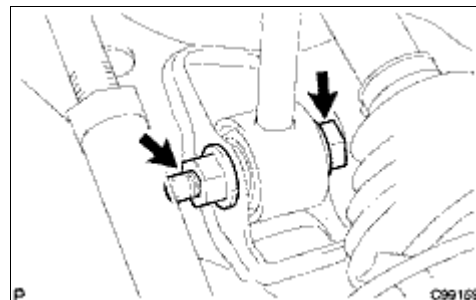
HINT:

If it is not within the specification, replace the lower arm.

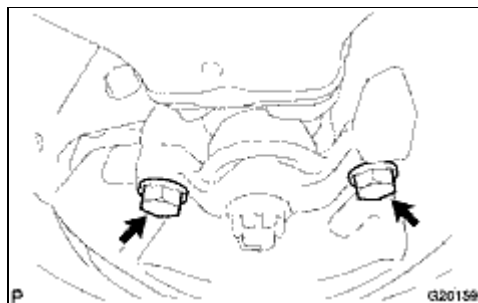


3. SEPARATE FRONT SHOCK ABSORBER WITH COIL SPRING

- Remove the bolt, nut and washer.
- Separate the front shock absorber with coil spring from the suspension lower arm.

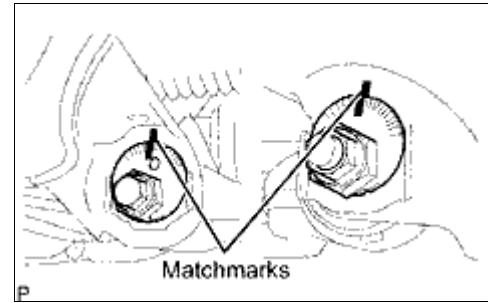


4. REMOVE FRONT SUSPENSION LOWER ARM



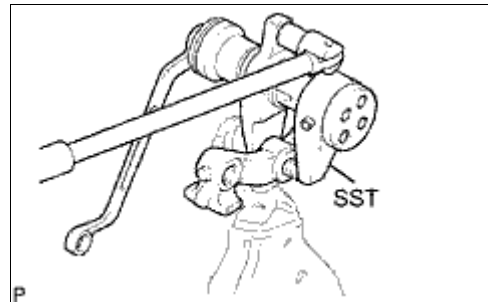
- Remove the 2 bolts, and separate the front lower ball joint attachment from the front axle.

- (b) Place matchmarks on the camber adjust cam No. 2 and toe adjust cam.



- (c) Remove the nut, camber adjust cam No. 2, camber adjust cam No. 1, bolt, toe adjust cam, toe adjust plate No. 2 and front suspension lower arm.

- (d) Remove the cotter pin and the nut.



- (e) Using SST, remove the front lower ball joint attachment LH.

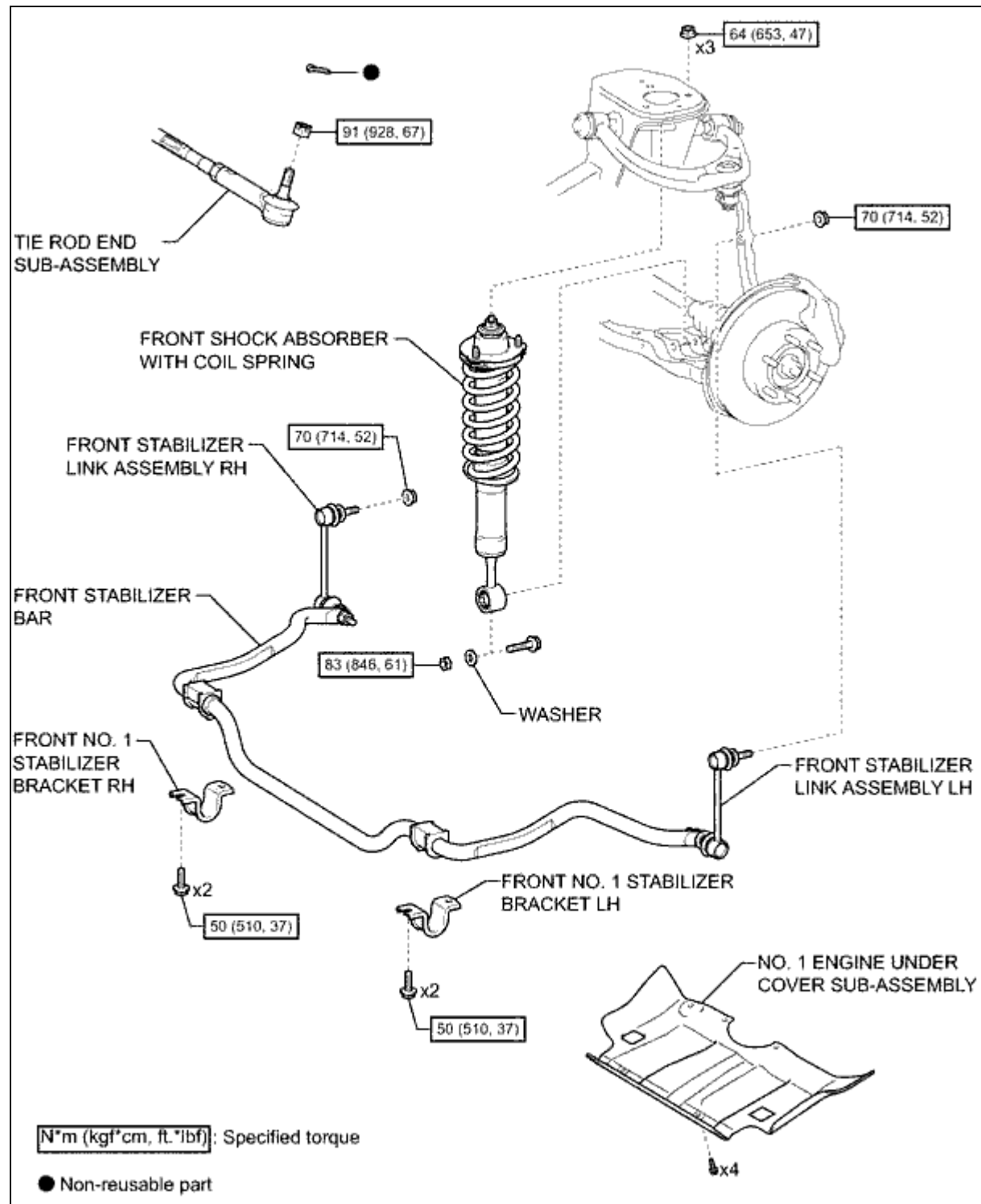
SST: 09628-00011



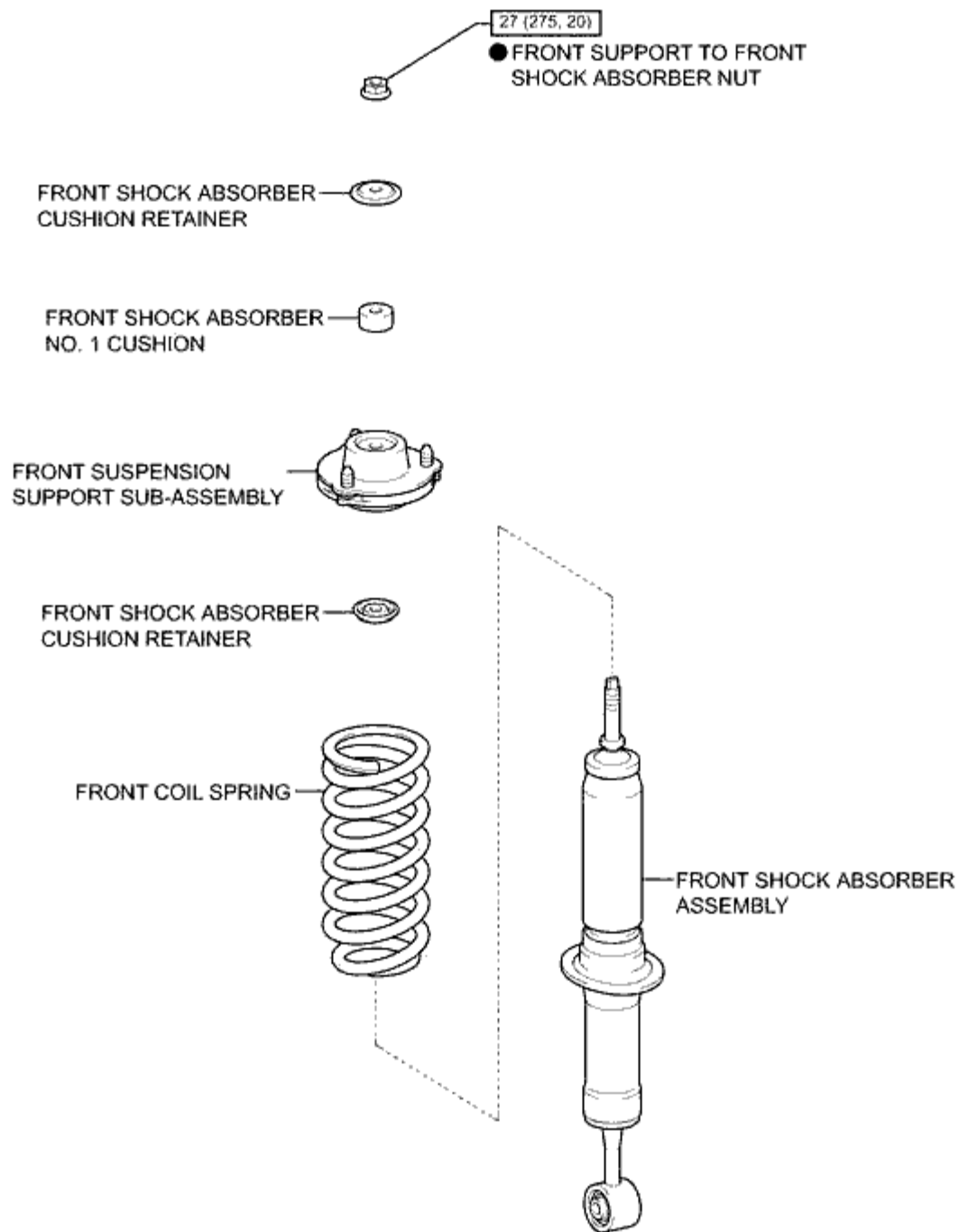
Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016JZ00KX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT SHOCK ABSORBER: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



ILLUSTRATION



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

● Non-reusable part

P



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT SHOCK ABSORBER: DISPOSAL; 2016 MY Tacoma [08/2015 -]		

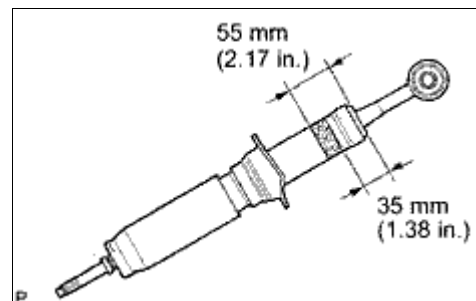
DISPOSAL

1. DISPOSE OF FRONT SHOCK ABSORBER ASSEMBLY

- Fully extend the shock absorber piston rod, and fix it at an angle in a vise or similar tool.
- Using a drill or similar tool, slowly make a hole in the shaded area shown in the illustration, and discharge the gas inside.

CAUTION:

- The gas is colorless, odorless and harmless.
- Since the discharged gas may cause chips to scatter, cover the drill with a shop rag when making the hole.



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT SHOCK ABSORBER: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

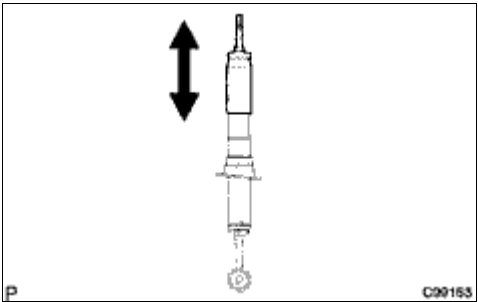
1. INSPECT FRONT SHOCK ABSORBER ASSEMBLY

- (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 front shock absorber with a new one.

NOTICE:

When disposing of the front shock absorber, see DISPOSAL on page [INFO](#) .



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT SHOCK ABSORBER: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

HINT:

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

1. INSTALL FRONT COIL SPRING

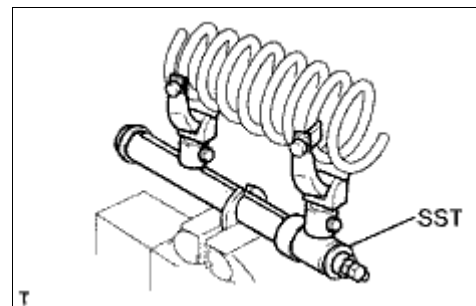
(a) Install SST to the front coil spring, and secure SST in a vise.

SST: 09727-00060

SST: 09727-30021

09727-00010

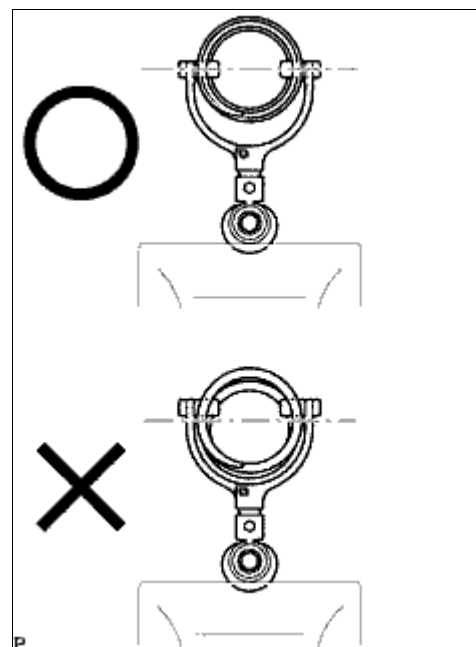
09727-00031



(b) Attach the arm of SST to the diameter of the front coil spring.

CAUTION:

- Make sure that the front coil spring is installed so that the distance between the upper and lower hooks of SST is at the maximum.
- Make sure that the claws of the hooks are securely attached.



(c) Using SST, compress the front coil spring.

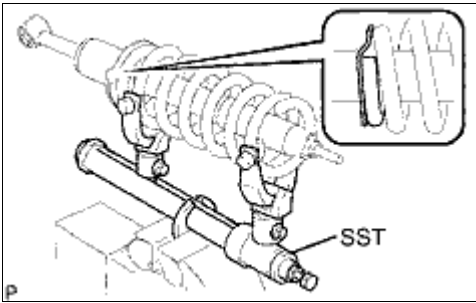
CAUTION:

- If the front coil spring bends during the compression, immediately stop the compression and reinstall SST.
- Do not compress the spring until the coil springs contact each other.
- Do not use an impact wrench. It will damage SST.

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

HINT:

Fit the lower end of the front coil spring into the gap of the spring lower seat.



2. INSTALL FRONT SHOCK ABSORBER CUSHION RETAINER

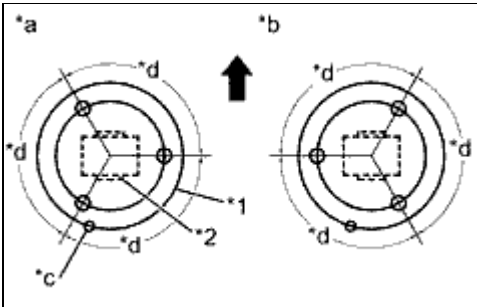
3. INSTALL FRONT SUSPENSION SUPPORT SUB-ASSEMBLY

4. INSTALL FRONT SHOCK ABSORBER NO. 1 CUSHION

5. INSTALL FRONT SHOCK ABSORBER CUSHION RETAINER

6. INSTALL FRONT SUPPORT TO FRONT SHOCK ABSORBER NUT

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



Text in Illustration

*1	Front Suspension Support Sub-assembly
*2	Front Shock Absorber Bush
*a	LH Side
*b	RH Side
*c	Lower End of the Front Coil Spring
*d	120°
	Front of the Vehicle

(b) Fit and tighten a new front support to front shock absorber nut.

Torque:

27 N·m {275 kgf·cm, 20ft·lbf}

CAUTION:

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

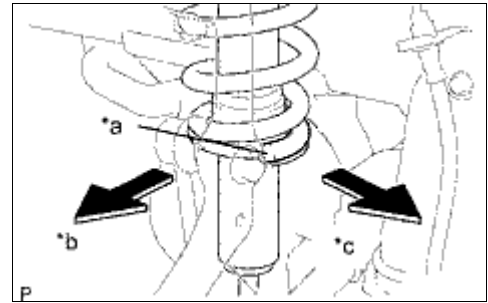
(c) Release the front coil spring while checking the position of the front suspension support sub-assembly.

7. TEMPORARILY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING

- (a) Install the front coil spring to the vehicle body with the lower end of the coil spring facing the rear side of the vehicle.

Text in Illustration

*a	Lower End
*b	Outer Side
*c	Rear Side



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

Torque:

64 N·m {653 kgf·cm, 47ft·lbf}

- (c) Temporarily tighten the bolt, nut and the washer on the lower side of the front shock absorber with coil spring.

8. INSTALL TIE ROD END SUB-ASSEMBLY INFO

9. INSTALL FRONT STABILIZER BAR

10. INSTALL FRONT NO. 1 STABILIZER BRACKET LH INFO

11. INSTALL FRONT NO. 1 STABILIZER BRACKET RH

HINT:

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

12. INSTALL FRONT STABILIZER LINK ASSEMBLY LH

- (a) Install the front stabilizer link assembly LH to the steering knuckle with the nut.

Torque:

70 N·m {714 kgf·cm, 52ft·lbf}

HINT:

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

13. INSTALL FRONT STABILIZER LINK ASSEMBLY RH

HINT:

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

14. INSTALL NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY

Torque:

30 N·m {306 kgf·cm, 22ft·lbf}

15. INSTALL FRONT WHEEL

Torque:

113 N·m {1152 kgf·cm, 83ft·lbf}

16. STABILIZE SUSPENSION

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

17. FULLY TIGHTEN FRONT SHOCK ABSORBER WITH COIL SPRING

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

Torque:

83 N·m {846 kgf·cm, 61ft·lbf}

18. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT

INFO



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Title: SUSPENSION: FRONT SHOCK ABSORBER: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

HINT:

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

1. REMOVE FRONT WHEEL

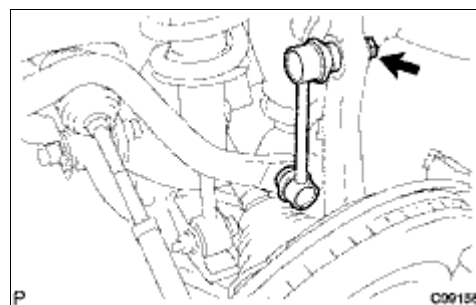
2. REMOVE NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY

3. SEPARATE FRONT STABILIZER LINK ASSEMBLY LH

- (a) Remove the nut and separate the front stabilizer link assembly LH from the steering knuckle.

HINT:

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



4. SEPARATE FRONT STABILIZER LINK ASSEMBLY RH

HINT:

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

5. REMOVE FRONT NO. 1 STABILIZER BRACKET LH INFO

6. REMOVE FRONT NO. 1 STABILIZER BRACKET RH

HINT:

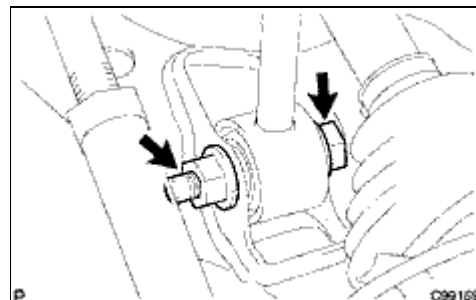
Use the same procedure for the RH side and LH side.

7. REMOVE FRONT STABILIZER BAR

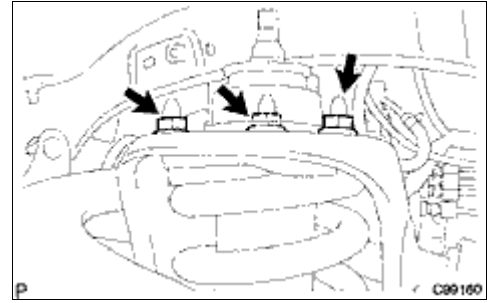
8. SEPARATE TIE ROD END SUB-ASSEMBLY INFO

9. REMOVE FRONT SHOCK ABSORBER WITH COIL SPRING

- (a) Remove the bolt, nut and the washer on the lower side of the front shock absorber with coil spring.



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



- (c) Remove the front shock absorber with coil spring.

10. REMOVE FRONT SUPPORT TO FRONT SHOCK ABSORBER NUT

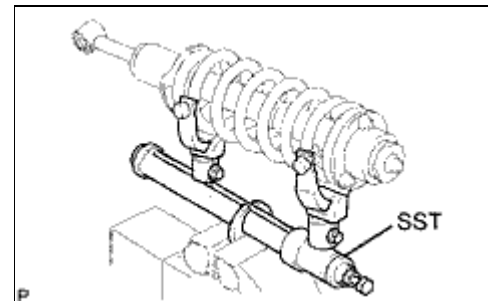
- (a) Secure SST in a vise.

SST: 09727-00060

SST: 09727-30021

09727-00010

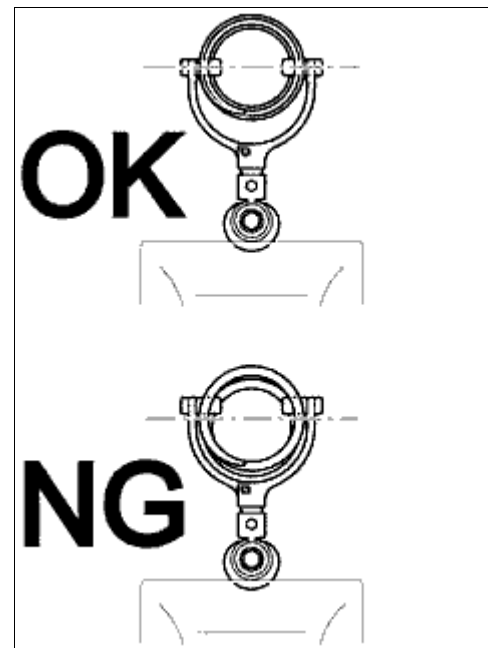
09727-00031



- (b) Attach the arm of SST to the diameter of the front coil spring.

CAUTION:

- Make sure that the front coil spring is installed so that the distance between the upper and lower hooks of SST is at the maximum.
- Make sure that the claws of the hooks are securely attached.



- (c) Using SST, compress the front coil spring.

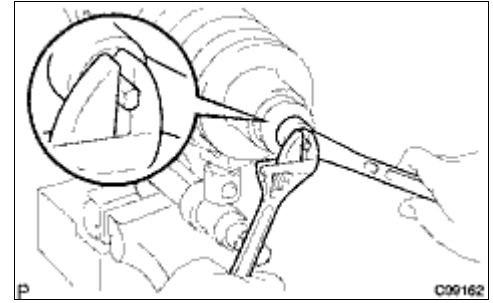
CAUTION:

- If the front coil spring bends during the compression, immediately stop the compression and reinstall SST.
- Do not compress the spring until the coil springs contact each other.
- Do not use an impact wrench. It will damage SST.

- (d) Confirm that the front coil spring becomes free and while holding the shock absorber rod, remove the front support to front shock absorber nut.

CAUTION:

Do not remove the front support to front shock absorber nut when the front coil spring is not free.



11. REMOVE FRONT SHOCK ABSORBER CUSHION RETAINER

12. REMOVE FRONT SHOCK ABSORBER NO. 1 CUSHION

13. REMOVE FRONT SUSPENSION SUPPORT SUB-ASSEMBLY

14. REMOVE FRONT SHOCK ABSORBER CUSHION RETAINER

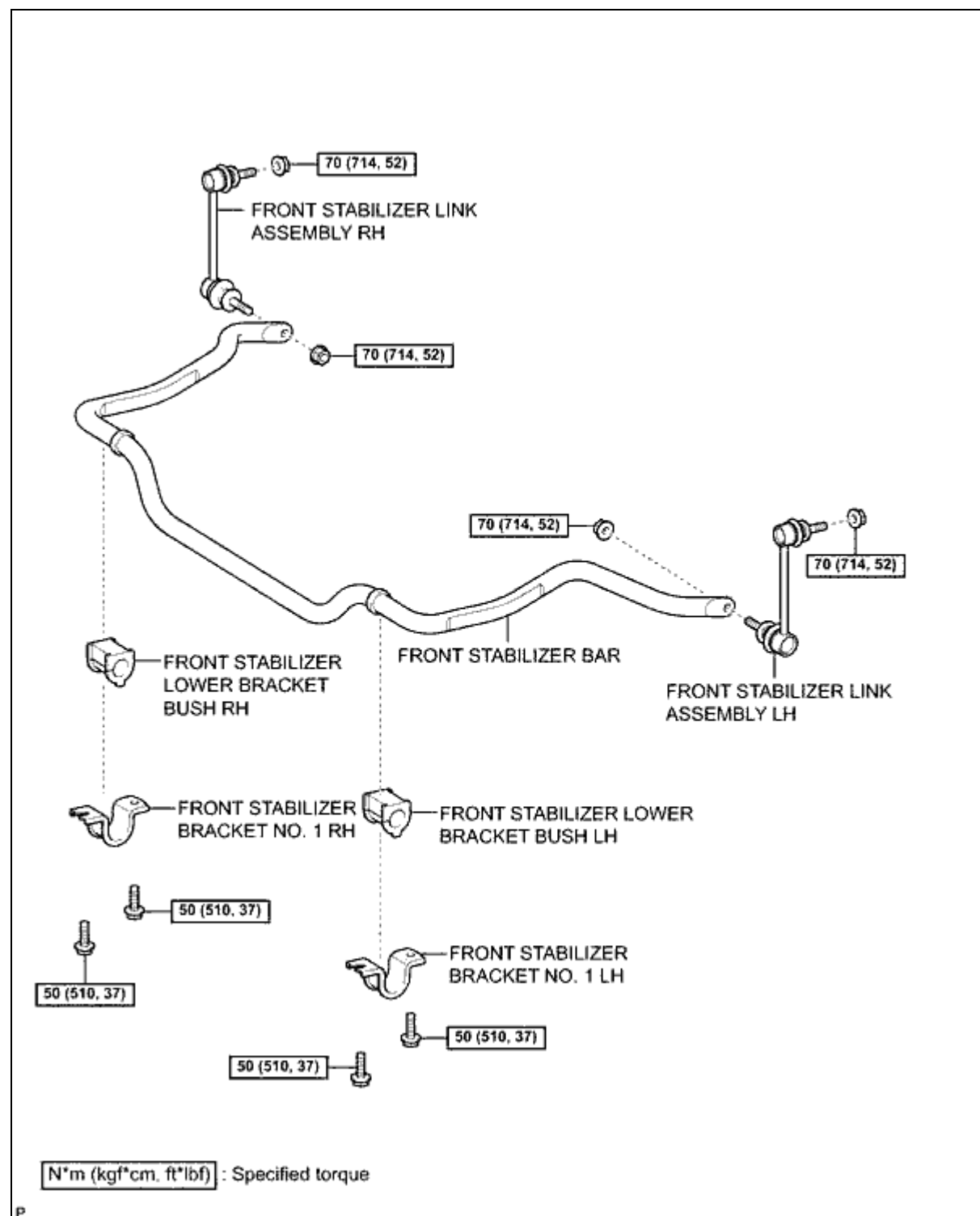
15. REMOVE FRONT COIL SPRING



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT STABILIZER BAR: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



P



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT STABILIZER BAR: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

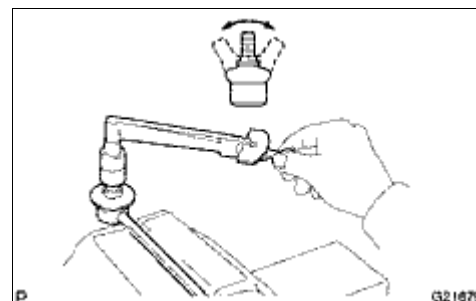
1. INSPECT FRONT STABILIZER LINK ASSEMBLY

- Flip the ball joint stud back and forth 5 times, as shown in the illustration, before installing the nut.
- Using a torque wrench, turn the nut continuously at a rate of 2 to 4 seconds per turn and take the torque reading on the 5th turn.

Torque:

0.1 to 1.9 N·m {1 to 19 kgf·cm, 1 to 17in·lbf} or less

- Check for any cracks and grease leakage on the ball joint dust cover.



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT STABILIZER BAR: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

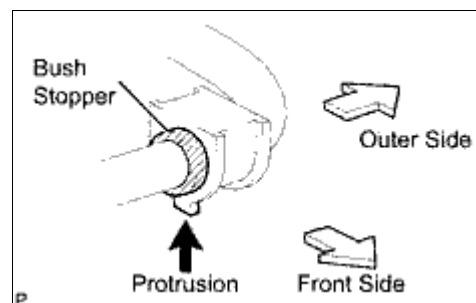
1. INSTALL FRONT STABILIZER BAR

2. INSTALL FRONT STABILIZER LOWER BRACKET BUSH LH

(a) Install the front stabilizer lower bracket bush.

HINT:

- Install the bush onto the inner side of the bush stopper on the stabilizer bar.
- Install the bush as the protrusion to be on the inner side of the vehicle.



3. INSTALL FRONT STABILIZER LOWER BRACKET BUSH RH

HINT:

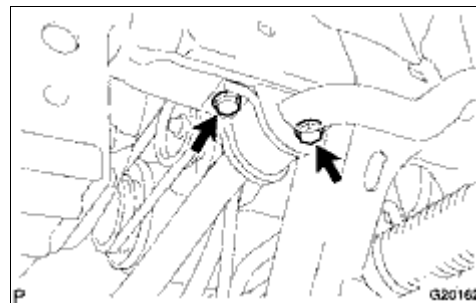
The installation procedure for the RH side is the same as that for the LH side.

4. INSTALL FRONT STABILIZER BRACKET NO. 1 LH

(a) Install the front stabilizer bracket with the 2 bolts.

Torque:

50 N·m {510 kgf·cm, 37ft·lbf}



5. INSTALL FRONT STABILIZER BRACKET NO. 1 RH

NOTICE:

The installation procedure for the RH side is the same as that for the LH side.

6. INSTALL FRONT STABILIZER LINK ASSEMBLY LH

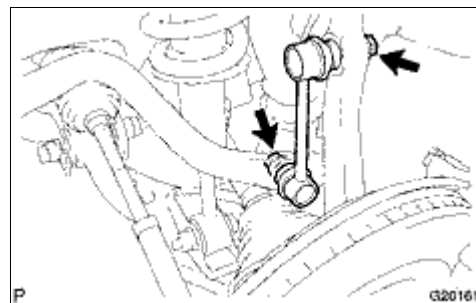
(a) Install the front stabilizer link assembly LH with the 2 nuts.

Torque:

70 N·m {714 kgf·cm, 52ft·lbf}

HINT:

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



7. INSTALL FRONT STABILIZER LINK ASSEMBLY RH

HINT:

The installation procedure for the RH side is the same as that for the LH side.

8. INSTALL ENGINE UNDER COVER SUB-ASSEMBLY NO. 1

Torque:

30 N·m {306 kgf·cm, 22ft·lbf}

9. INSTALL FRONT WHEELS

Torque:

113 N·m {1152 kgf·cm, 83ft·lbf}



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016KY00KX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT STABILIZER BAR: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. REMOVE FRONT WHEELS

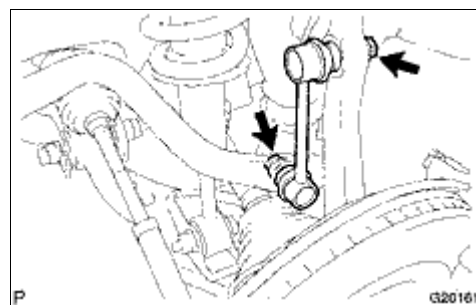
2. REMOVE ENGINE UNDER COVER SUB-ASSEMBLY NO. 1

3. REMOVE FRONT STABILIZER LINK ASSEMBLY LH

- (a) Remove the 2 nuts and front stabilizer link LH.

HINT:

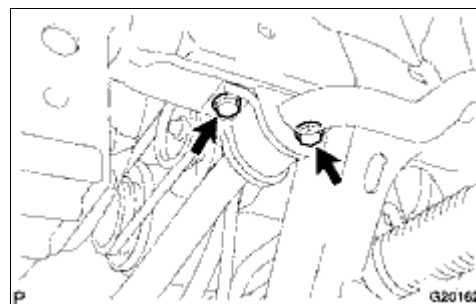
If the ball joint turns together with the nut, use a hexagon (6 mm) wrench to hold the stud.



4. REMOVE FRONT STABILIZER LINK ASSEMBLY RH

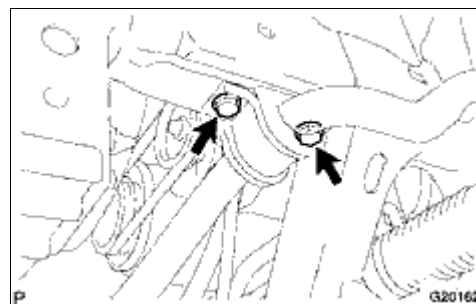
HINT:

The removal procedure for the RH side is the same as that for the LH side.



5. REMOVE FRONT STABILIZER BRACKET NO. 1 LH

- (a) Remove the 2 bolts and front stabilizer bracket.



6. REMOVE FRONT STABILIZER BRACKET NO. 1 RH

HINT:

The removal procedure for the RH side is the same as that for the LH side.

7. REMOVE FRONT STABILIZER LOWER BRACKET BUSH LH

8. REMOVE FRONT STABILIZER LOWER BRACKET BUSH RH

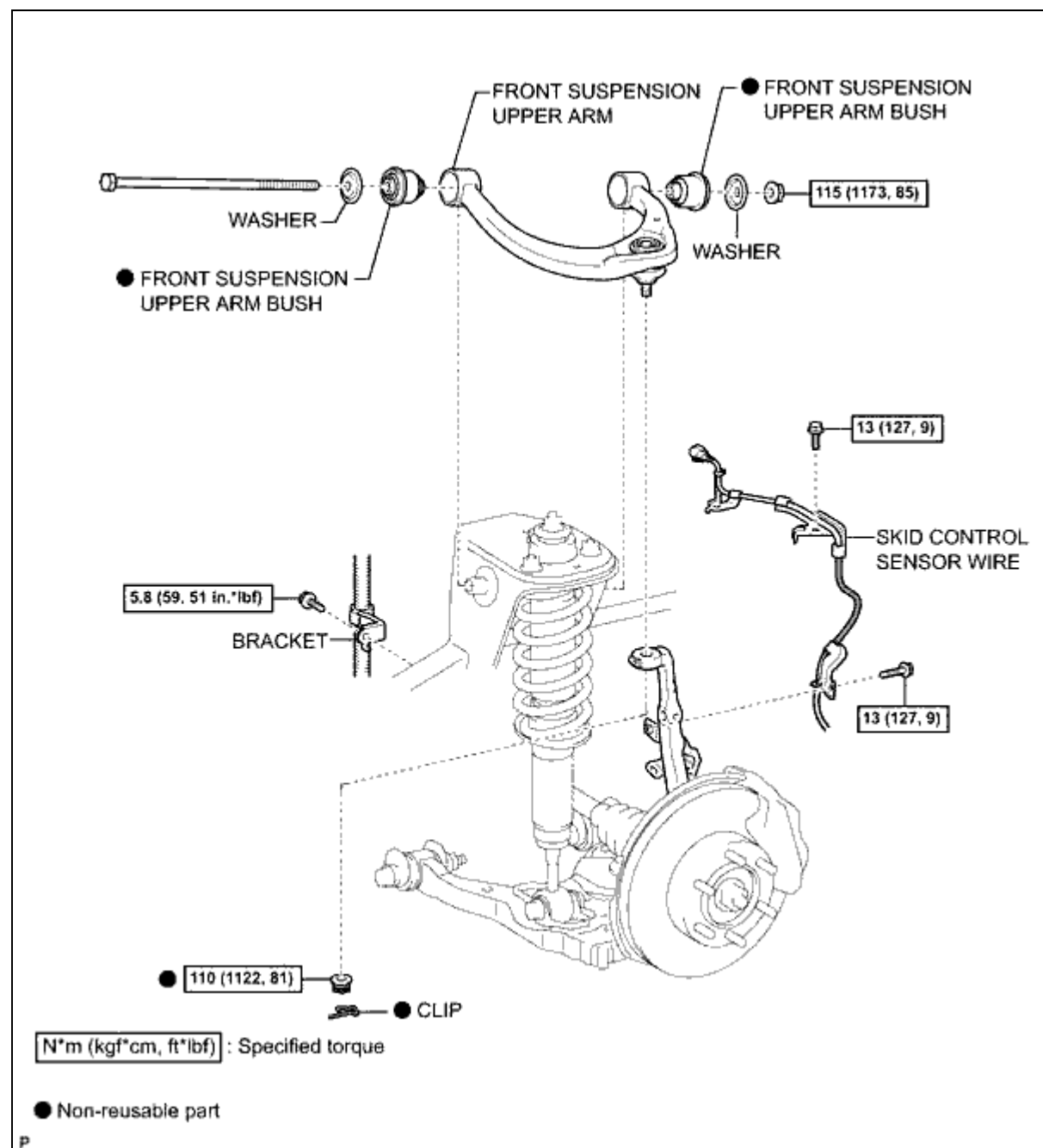
9. REMOVE FRONT STABILIZER BAR



Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016KB00KX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT UPPER SUSPENSION ARM: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

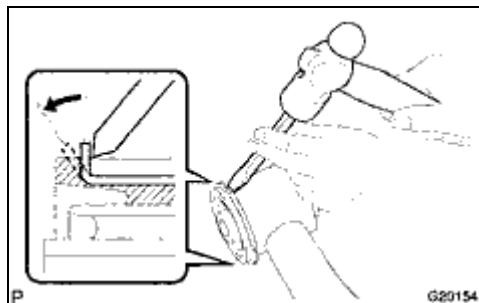
ILLUSTRATION



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016KD00KX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT UPPER SUSPENSION ARM: DISASSEMBLY; 2016 MY Tacoma [08/2015 -]		

DISASSEMBLY

1. REMOVE FRONT SUSPENSION UPPER ARM BUSH



(a) Using a hammer and chisel, raise the flange of the bushing diagonally as shown in the illustration.

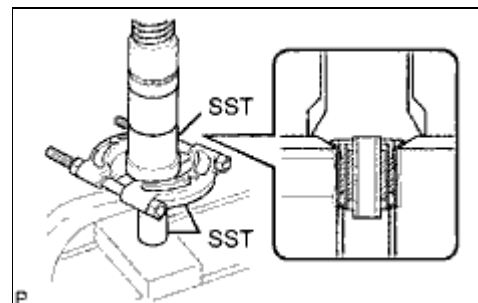
(b) Using SST and a press, remove the front suspension upper arm bush LH (front side).

SST: 09613-26010

SST: 09710-22021

09710-01031

SST: 09950-00020



(c) The removal procedure for the rear side is the same as that for the front side.



Last Modified: 11-13-2015	6.6 G	Doc ID: RM0000016KA00KX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT UPPER SUSPENSION ARM: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

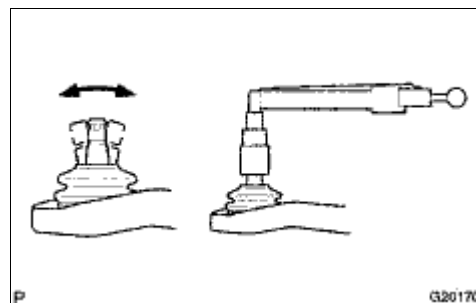
1. INSPECT FRONT SUSPENSION UPPER ARM

- Flip the ball joint stud back and forth 5 times, as shown in the illustration, before installing the nut.
- Using a torque wrench, turn the nut continuously at a rate of 3 to 5 seconds per turn and take the torque reading on the 5th turn.

Torque:

4.5 N·m {46 kgf·cm, 40in·lbf} or less

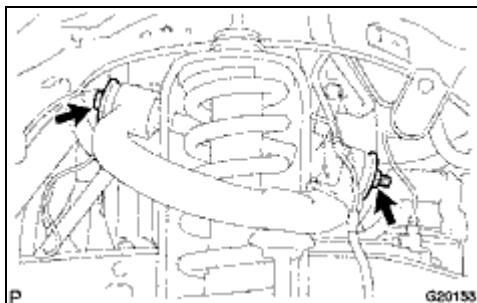
- Check for any cracks and grease leakage on the ball joint dust cover.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016K900MX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT UPPER SUSPENSION ARM: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. TEMPORARILY TIGHTEN FRONT SUSPENSION UPPER ARM

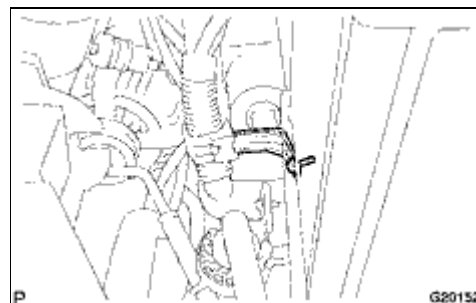


(a) Install the front suspension upper arm, and temporarily tighten the bolt, 2 washers and nut.

(b) Install the bracket with the bolt.

Torque:

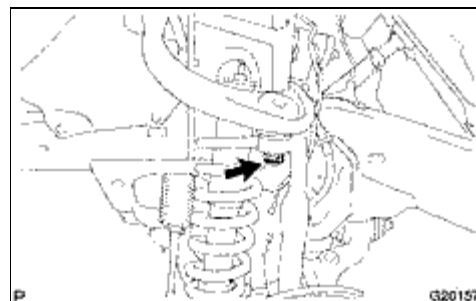
5.8 N·m {59 kgf·cm, 51in·lbf}



(c) Install a new nut and a new clip.

Torque:

110 N·m {1122 kgf·cm, 81ft·lbf}

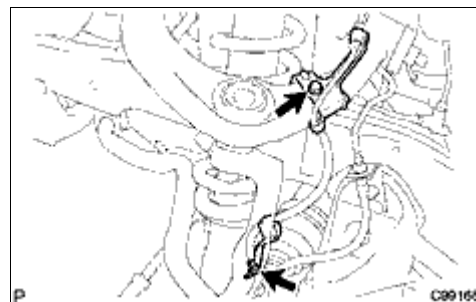


2. INSTALL SKID CONTROL SENSOR WIRE

(a) Install the skid control sensor wire with the 2 bolts.

Torque:

13 N·m {127 kgf·cm, 9ft·lbf}



3. INSTALL FRONT WHEEL

Torque:

113 N·m {1152 kgf·cm, 83ft·lbf}

4. STABILIZE SUSPENSION

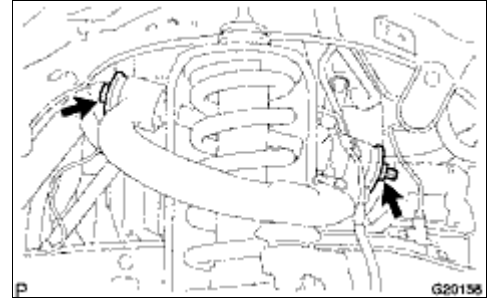
- (a) Lower the vehicle.
- (b) Bounce the vehicle up and down several times to stabilize the suspension.

5. FULLY TIGHTEN FRONT SUSPENSION UPPER ARM

- (a) Fully tighten the nut.

Torque:

115 N·m {1173 kgf·cm, 85ft·lbf}



6. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT

INFO



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016KE00KX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT UPPER SUSPENSION ARM: REASSEMBLY; 2016 MY Tacoma [08/2015 -]		

REASSEMBLY

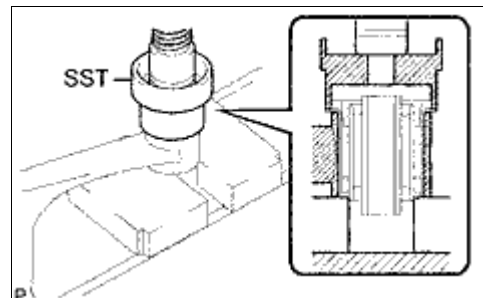
1. INSTALL FRONT SUSPENSION UPPER ARM BUSH

- (a) Using SST and a press, install a new upper arm bush (front side).

SST: 09710-26010

09710-05061

- (b) The installation procedure for the rear side is the same as that for the front side.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016KC00KX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT UPPER SUSPENSION ARM: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

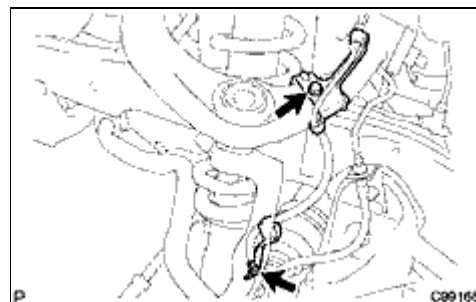
1. REMOVE FRONT WHEEL

2. INSPECT FRONT SUSPENSION UPPER ARM

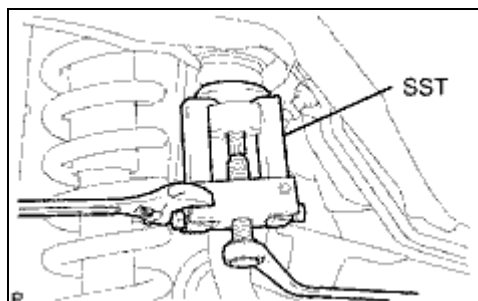
- (a) Check that there is no slack on the ball joint by shaking the upper arm up and down by hand.

3. SEPARATE SKID CONTROL SENSOR WIRE

- (a) Remove the 2 bolts, and separate the skid control sensor wire.



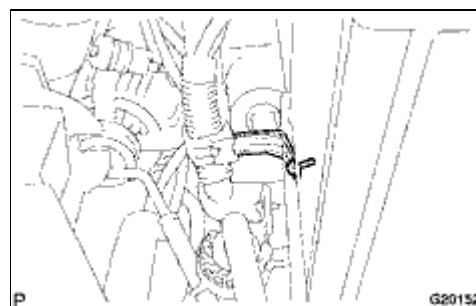
4. REMOVE FRONT SUSPENSION UPPER ARM



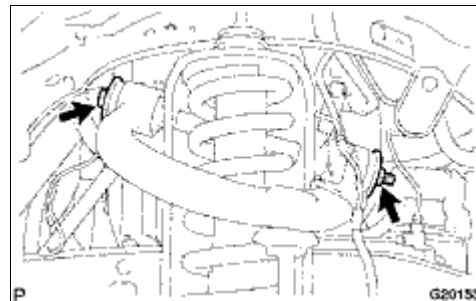
- (a) Support the front suspension lower arm LH with a jack.
 (b) Remove the clip and nut.
 (c) Using SST, separate the upper ball joint from the steering knuckle.

SST: 09628-62011

- (d) Remove the bolt and bracket.



(e) Remove the bolt, 2 washers and nut.



(f) Remove the front suspension upper arm.



Last Modified: 11-13-2015	6.6 N	Doc ID: RM0000016KZ00XX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: FRONT WHEEL ALIGNMENT: ADJUSTMENT; 2016 MY Tacoma [08/2015 -]		

ADJUSTMENT

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:

Perform zero point calibration of the yaw rate and acceleration sensor and test mode inspection.

1. INSPECT TIRES INFO

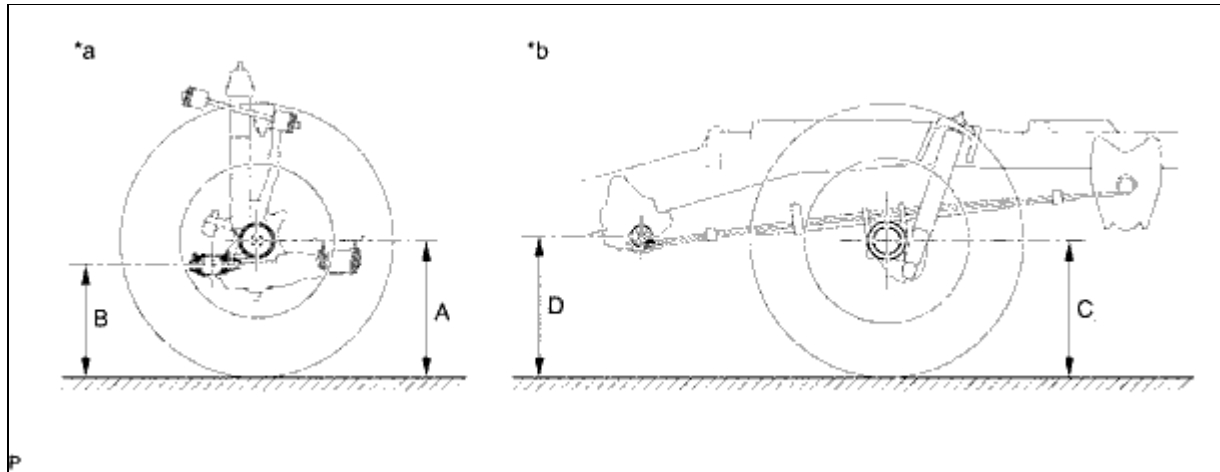
2. MEASURE VEHICLE HEIGHT

NOTICE:

- Before inspecting the wheel alignment, adjust the vehicle height to the specified value.
- Be sure to perform measurement on a level surface.
- Inspect while the vehicle is unloaded.
- The standard value shown here is a value that is used for adjusting the wheel alignment and does not indicate the height of an actual vehicle.

(a) Bounce the vehicle up and down at the corners to stabilize the suspension.

(b) Measure the vehicle height.



Text in Illustration

*a	Front Side	*b	Rear Side
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Measuring points:

- A**
Ground clearance of front wheel center
- B**
Ground clearance of adjustment cam bolt center (front side)
- C**
Ground clearance of rear wheel center
- D**
Ground clearance of rear leaf spring front side bush center

Vehicle Height (Unloaded Vehicle):

VEHICLE MODEL	TIRE SIZE	A - B	C - D
TRN245L-CRMSKA	P245/75R16	65 mm (2.56 in.)	-39 mm (-1.54 in.)
TRN245L-CRMSKA (FIRM SUSPENSION)	P245/75R16	65 mm (2.56 in.)	-46 mm (-1.81 in.)
TRN245L-CRTSKA	P245/75R16	67 mm (2.64 in.)	-39 mm (-1.54 in.)
TRN245L-CRTSKA (FIRM SUSPENSION)	P245/75R16	67 mm (2.64 in.)	-47 mm (-1.85 in.)
GRN305L-CRFSHA	P245/75R16	65 mm (2.56 in.)	-37 mm (-1.46 in.)
GRN305L-CRFSHA (FIRM SUSPENSION)	P245/75R16	65 mm (2.56 in.)	-45 mm (-1.77 in.)
GRN305L-CRFSHA	265/70R16	66 mm (2.6 in.)	-39 mm (-1.54 in.)
GRN305L-CRFSHA (FIRM SUSPENSION)	265/70R16	66 mm (2.6 in.)	-47 mm (-1.85 in.)
GRN305L-CRFSHA	P265/65R17	65 mm (2.56 in.)	-37 mm (-1.46 in.)
GRN305L-CRFSHA (FIRM SUSPENSION)	P265/65R17	65 mm (2.56 in.)	-45 mm (-1.77 in.)
GRN305L-CRTSHA	P245/75R16	64 mm (2.52 in.)	-39 mm (-1.54 in.)
GRN305L-CRTSHA (FIRM SUSPENSION)	P245/75R16	64 mm (2.52 in.)	-47 mm (-1.85 in.)
GRN305L-CRTSHA	265/70R16	65 mm (2.56 in.)	-41 mm (-1.61 in.)
GRN305L-CRTSHA (FIRM SUSPENSION)	265/70R16	66 mm (2.6 in.)	-49 mm (-1.93 in.)
GRN305L-CRTSHA	P265/65R17	64 mm (2.52 in.)	-39 mm (-1.54 in.)
GRN305L-CRTSHA (FIRM SUSPENSION)	P265/65R17	64 mm (2.52 in.)	-47 mm (-1.85 in.)
GRN305L-PRFSHA	P245/75R16	64 mm (2.52 in.)	-32 mm (-1.26 in.)
GRN305L-PRFSHA (FIRM SUSPENSION)	P245/75R16	65 mm (2.56 in.)	-40 mm (-1.57 in.)
GRN305L-PRFSHA	265/70R16	65 mm (2.56 in.)	-34 mm (-1.34 in.)
GRN305L-PRFSHA (FIRM SUSPENSION)	265/70R16	66 mm (2.6 in.)	-41 mm (-1.61 in.)
GRN305L-PRFSHA	P265/65R17	64 mm (2.52 in.)	-32 mm (-1.26 in.)
GRN305L-PRFSHA (FIRM SUSPENSION)	P265/65R17	65 mm (2.56 in.)	-40 mm (-1.57 in.)
GRN305L-PRTSHA	P245/75R16	65 mm (2.56 in.)	-33 mm (-1.3 in.)
GRN305L-PRTSHA (FIRM SUSPENSION)	P245/75R16	66 mm (2.6 in.)	-41 mm (-1.61 in.)
GRN305L-PRTSHA	265/70R16	66 mm (2.6 in.)	-34 mm (-1.34 in.)

VEHICLE MODEL	TIRE SIZE	A - B	C - D
GRN305L-PRTSHA (FIRM SUSPENSION)	265/70R16	66 mm (2.6 in.)	-42 mm (-1.65 in.)
GRN305L-PRTSHA	P265/65R17	65 mm (2.56 in.)	-33 mm (-1.3 in.)
GRN305L-PRTSHA (FIRM SUSPENSION)	P265/65R17	66 mm (2.6 in.)	-41 mm (-1.61 in.)
GRN310L-PRTSHA	P245/75R16	64 mm (2.52 in.)	-34 mm (-1.34 in.)
GRN310L-PRTSHA (FIRM SUSPENSION)	P245/75R16	65 mm (2.56 in.)	-42 mm (-1.65 in.)
GRN310L-PRTSHA	265/70R16	64 mm (2.52 in.)	-36 mm (-1.42 in.)
GRN310L-PRTSHA (FIRM SUSPENSION)	265/70R16	65 mm (2.56 in.)	-44 mm (-1.73 in.)
GRN310L-PRTSHA	P265/65R17	64 mm (2.52 in.)	-34 mm (-1.34 in.)
GRN310L-PRTSHA (FIRM SUSPENSION)	P265/65R17	65 mm (2.56 in.)	-42 mm (-1.65 in.)
GRN305L-PRTSHA	P265/65R17	54 mm (2.13 in.)	-43 mm (-1.69 in.)
TRN265L-CRTSKA	P245/75R16	63 mm (2.48 in.)	-39 mm (-1.54 in.)
TRN265L-CRTSKA (FIRM SUSPENSION)	P245/75R16	63 mm (2.48 in.)	-47 mm (-1.85 in.)
TRN265-PRTSKA	P245/75R16	67 mm (2.64 in.)	35 mm (-1.38 in.)
TRN265-PRTSKA (FIRM SUSPENSION)	P245/75R16	67 mm (2.64 in.)	-43 mm (-1.69 in.)
GRN325L-CRTSHA	P245/75R16	66 mm (2.6 in.)	-42 mm (-1.65 in.)
GRN325L-CRTSHA (FIRM SUSPENSION)	P245/75R16	66 mm (2.6 in.)	-46 mm (-1.81 in.)
GRN325L-CRTSHA	265/70R16	66 mm (2.6 in.)	-44 mm (-1.73 in.)
GRN325L-CRTSHA (FIRM SUSPENSION)	265/70R16	67 mm (2.64 in.)	-52 mm (-2.05 in.)
GRN325L-CRTSHA	P265/65R17	66 mm (2.6 in.)	-41 mm (-1.61 in.)
GRN325L-CRTSHA (FIRM SUSPENSION)	P265/65R17	67 mm (2.64 in.)	-49 mm (-1.93 in.)
GRN325L-PRTSHA	P245/75R16	65 mm (2.56 in.)	-35 mm (-1.38 in.)
GRN325L-PRTSHA (FIRM SUSPENSION)	P245/75R16	66 mm (2.6 in.)	-43 mm (-1.69 in.)
GRN325L-PRTSHA	265/70R16	66 mm (2.6 in.)	-37 mm (-1.46 in.)
GRN325L-PRTSHA (FIRM SUSPENSION)	265/70R16	66 mm (2.6 in.)	-45 mm (-1.77 in.)
GRN325L-PRTSHA	P265/65R17	65 mm (2.56 in.)	-35 mm (-1.38 in.)

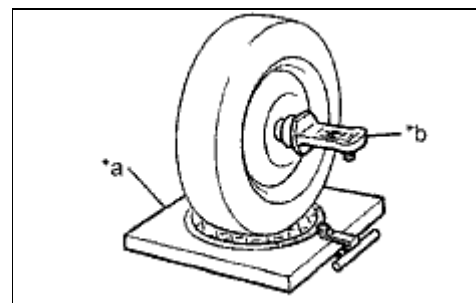
VEHICLE MODEL	TIRE SIZE	A - B	C - D
GRN325L-PRTSHA (FIRM SUSPENSION)	P265/65R17	66 mm (2.6 in.)	-42 mm (-1.65 in.)
GRN330L-PRTSHA	P245/75R16	62 mm (2.44 in.)	-37 mm (-1.46 in.)
GRN330L-PRTSHA (FIRM SUSPENSION)	P245/75R16	63 mm (2.48 in.)	-45 mm (-1.77 in.)
GRN330L-PRTSHA	265/70R16	65 mm (2.56 in.)	-39 mm (-1.54 in.)
GRN330L-PRTSHA (FIRM SUSPENSION)	265/70R16	65 mm (2.56 in.)	-47 mm (-1.85 in.)
GRN330L-PRTSHA	P265/65R17	62 mm (2.44 in.)	-37 mm (-1.46 in.)
GRN330L-PRTSHA (FIRM SUSPENSION)	P265/65R17	63 mm (2.48 in.)	-45 mm (-1.77 in.)
GRN325L-PRTSHA	P265/65R17	53 mm (2.09 in.)	-41 mm (-1.61 in.)
GRN325L-PRTLHA	P265/60R18	64 mm (2.52 in.)	-33 mm (-1.3 in.)
GRN325L-PRTLHA (FIRM SUSPENSION)	P265/60R18	65 mm (2.56 in.)	-41 mm (-1.61 in.)
GRN330L-PRTLHA	P265/60R18	63 mm (2.48 in.)	-36 mm (-1.42 in.)
GRN330L-PRTLHA (FIRM SUSPENSION)	P265/60R18	64 mm (2.52 in.)	-44 mm (-1.73 in.)
GRN305L-PRTLHA	P265/60R18	65 mm (2.56 in.)	-31 mm (-1.22 in.)
GRN305L-PRTLHA (FIRM SUSPENSION)	P265/60R18	66 mm (2.6 in.)	-40 mm (-1.57 in.)
GRN310L-PRTLHA	P265/60R18	64 mm (2.52 in.)	-33 mm (-1.3 in.)
GRN310L-PRTLHA (FIRM SUSPENSION)	P265/60R18	65 mm (2.56 in.)	-41 mm (-1.61 in.)

3. INSPECT CAMBER, CASTER AND STEERING AXIS INCLINATION

- (a) Install the camber-caster-kingpin gauge and position the front wheel on the turning radius gauge.

Text in Illustration

*a	Turning Radius Gauge
*b	Camber-caster-kingpin Gauge



- (b) Inspect the camber, caster and steering axis inclination.

Camber, Caster and Steering Axis Inclination (Unloaded Vehicle):

VEHICLE MODEL	TIRE SIZE	CAMBER	CASTER	STEERING AXIS INCLINATION
TRN245L-CRMSKA	P245/75R16	0°32' +/- 45'	2°2' +/- 45'	11°55' +/- 45'

VEHICLE MODEL	TIRE SIZE	CAMBER	CASTER	STEERING AXIS INCLINATION
		(0.54°+/- 0.75°)	(2.03°+/- 0.75°)	(11.91°+/- 0.75°)
TRN245L-CRMSKA (FIRM SUSPENSION)	P245/75R16	0°32' +/- 45' (0.54°+/- 0.75°)	1°51' +/- 45' (1.85°+/- 0.75°)	11°55' +/- 45' (11.91°+/- 0.75°)
TRN245L-CRTSKA	P245/75R16	0°30' +/- 45' (0.50°+/- 0.75°)	2°2' +/- 45' (2.03°+/- 0.75°)	11°57' +/- 45' (11.95°+/- 0.75°)
TRN245L-CRTSKA (FIRM SUSPENSION)	P245/75R16	0°30' +/- 45' (0.50°+/- 0.75°)	1°52' +/- 45' (1.86°+/- 0.75°)	11°57' +/- 45' (11.95°+/- 0.75°)
GRN305L-CRFSHA	P245/75R16	0°32' +/- 45' (0.54°+/- 0.75°)	2°4' +/- 45' (2.06°+/- 0.75°)	11°55' +/- 45' (11.91°+/- 0.75°)
GRN305L-CRFSHA (FIRM SUSPENSION)	P245/75R16	0°32' +/- 45' (0.54°+/- 0.75°)	1°53' +/- 45' (1.89°+/- 0.75°)	11°55' +/- 45' (11.91°+/- 0.75°)
GRN305L-CRFSHA	265/70R16	0°31' +/- 45' (0.52°+/- 0.75°)	2°1' +/- 45' (2.01°+/- 0.75°)	11°56' +/- 45' (11.93°+/- 0.75°)
GRN305L-CRFSHA (FIRM SUSPENSION)	265/70R16	0°31' +/- 45' (0.52°+/- 0.75°)	1°50' +/- 45' (1.83°+/- 0.75°)	11°56' +/- 45' (11.93°+/- 0.75°)
GRN305L-CRFSHA	P265/65R17	0°32' +/- 45' (0.54°+/- 0.75°)	2°4' +/- 45' (2.06°+/- 0.75°)	11°55' +/- 45' (11.91°+/- 0.75°)
GRN305L-CRFSHA (FIRM SUSPENSION)	P265/65R17	0°32' +/- 45' (0.54°+/- 0.75°)	1°53' +/- 45' (1.89°+/- 0.75°)	11°55' +/- 45' (11.91°+/- 0.75°)
GRN305L-CRTSHA	P245/75R16	0°34' +/- 45' (0.56°+/- 0.75°)	1°59' +/- 45' (1.98°+/- 0.75°)	11°54' +/- 45' (11.90°+/- 0.75°)
GRN305L-CRTSHA (FIRM SUSPENSION)	P245/75R16	0°34' +/- 45' (0.56°+/- 0.75°)	1°48' +/- 45' (1.80°+/- 0.75°)	11°54' +/- 45' (11.90°+/- 0.75°)
GRN305L-CRTSHA	265/70R16	0°32' +/- 45' (0.54°+/- 0.75°)	1°55' +/- 45' (1.92°+/- 0.75°)	11°55' +/- 45' (11.91°+/- 0.75°)
GRN305L-CRTSHA (FIRM SUSPENSION)	265/70R16	0°32' +/- 45' (0.54°+/- 0.75°)	1°44' +/- 45' (1.74°+/- 0.75°)	11°55' +/- 45' (11.91°+/- 0.75°)
GRN305L-CRTSHA	P265/65R17	0°34' +/- 45' (0.56°+/- 0.75°)	1°59' +/- 45' (1.98°+/- 0.75°)	11°54' +/- 45' (11.90°+/- 0.75°)
GRN305L-CRTSHA (FIRM SUSPENSION)	P265/65R17	0°34' +/- 45' (0.56°+/- 0.75°)	1°48' +/- 45' (1.80°+/- 0.75°)	11°54' +/- 45' (11.90°+/- 0.75°)
GRN305L-PRFSHA	P245/75R16	0°32' +/- 45' (0.54°+/- 0.75°)	2°11' +/- 45' (2.19°+/- 0.75°)	11°55' +/- 45' (11.91°+/- 0.75°)
GRN305L-PRFSHA (FIRM SUSPENSION)	P245/75R16	0°32' +/- 45' (0.54°+/- 0.75°)	2°1' +/- 45' (2.01°+/- 0.75°)	11°55' +/- 45' (11.91°+/- 0.75°)
GRN305L-PRFSHA	265/70R16	0°31' +/- 45' (0.52°+/- 0.75°)	2°9' +/- 45' (2.15°+/- 0.75°)	11°56' +/- 45' (11.93°+/- 0.75°)
GRN305L-PRFSHA (FIRM SUSPENSION)	265/70R16	0°31' +/- 45' (0.52°+/- 0.75°)	1°58' +/- 45' (1.97°+/- 0.75°)	11°56' +/- 45' (11.93°+/- 0.75°)

VEHICLE MODEL	TIRE SIZE	CAMBER	CASTER	STEERING AXIS INCLINATION
GRN305L-PRFSHA	P265/65R17	0°32' +/- 45' (0.54° +/- 0.75°)	2°11' +/- 45' (2.19° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN305L-PRFSHA (FIRM SUSPENSION)	P265/65R17	0°32' +/- 45' (0.54° +/- 0.75°)	2°1' +/- 45' (2.01° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN305L-PRTSHA	P245/75R16	0°31' +/- 45' (0.52° +/- 0.75°)	2°10' +/- 45' (2.17° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN305L-PRTSHA (FIRM SUSPENSION)	P245/75R16	0°31' +/- 45' (0.52° +/- 0.75°)	1°59' +/- 45' (1.99° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN305L-PRTSHA	265/70R16	0°31' +/- 45' (0.52° +/- 0.75°)	2°8' +/- 45' (2.13° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN305L-PRTSHA (FIRM SUSPENSION)	265/70R16	0°31' +/- 45' (0.52° +/- 0.75°)	1°58' +/- 45' (1.96° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN305L-PRTSHA	P265/65R17	0°31' +/- 45' (0.52° +/- 0.75°)	2°11' +/- 45' (2.19° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN305L-PRTSHA (FIRM SUSPENSION)	P265/65R17	0°31' +/- 45' (0.52° +/- 0.75°)	2°1' +/- 45' (2.01° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN310L-PRTSHA	P245/75R16	0°32' +/- 45' (0.54° +/- 0.75°)	2°10' +/- 45' (2.17° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN310L-PRTSHA (FIRM SUSPENSION)	P245/75R16	0°32' +/- 45' (0.54° +/- 0.75°)	2°1' +/- 45' (2.01° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN310L-PRTSHA	265/70R16	0°32' +/- 45' (0.54° +/- 0.75°)	2°8' +/- 45' (2.13° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN310L-PRTSHA (FIRM SUSPENSION)	265/70R16	0°32' +/- 45' (0.54° +/- 0.75°)	1°58' +/- 45' (1.97° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN310L-PRTSHA	P265/65R17	0°32' +/- 45' (0.54° +/- 0.75°)	2°10' +/- 45' (2.16° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN310L-PRTSHA (FIRM SUSPENSION)	P265/65R17	0°32' +/- 45' (0.54° +/- 0.75°)	2° +/- 45' (2.00° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN305L-PRTSHA	P265/65R17	0°42' +/- 45' (0.70° +/- 0.75°)	1°50' +/- 45' (1.83° +/- 0.75°)	11°45' +/- 45' (11.75° +/- 0.75°)
TRN265L-CRTSKA	P245/75R16	0°35' +/- 45' (0.58° +/- 0.75°)	2°2' +/- 45' (2.03° +/- 0.75°)	11°53' +/- 45' 11.88° +/- 0.75°
TRN265L-CRTSKA (FIRM SUSPENSION)	P245/75R16	0°35' +/- 45' (0.58° +/- 0.75°)	1°51' +/- 45' (1.85° +/- 0.75°)	11°53' +/- 45' 11.88° +/- 0.75°
TRN265-PRTSKA	P245/75R16	0°30' +/- 45' (0.50° +/- 0.75°)	2°10' +/- 45' (2.17° +/- 0.75°)	11°57' +/- 45' (11.95° +/- 0.75°)
TRN265-PRTSKA (FIRM SUSPENSION)	P245/75R16	0°30' +/- 45' (0.50° +/- 0.75°)	1°59' +/- 45' (1.99° +/- 0.75°)	11°57' +/- 45' (11.95° +/- 0.75°)
GRN325L-CRTSHA	P245/75R16	0°31' +/- 45' (0.52° +/- 0.75°)	1°59' +/- 45' (1.99° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)

VEHICLE MODEL	TIRE SIZE	CAMBER	CASTER	STEERING AXIS INCLINATION
GRN325L-CRTSHA (FIRM SUSPENSION)	P245/75R16	0°31' +/- 45' (0.52° +/- 0.75°)	1°53' +/- 45' (1.89° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-CRTSHA	265/70R16	0°31' +/- 45' (0.52° +/- 0.75°)	1°55' +/- 45' (1.92° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-CRTSHA (FIRM SUSPENSION)	265/70R16	0°31' +/- 45' (0.52° +/- 0.75°)	1°44' +/- 45' (1.74° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-CRTSHA	P265/65R17	0°31' +/- 45' (0.52° +/- 0.75°)	1°58' +/- 45' (1.97° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-CRTSHA (FIRM SUSPENSION)	P265/65R17	0°31' +/- 45' (0.52° +/- 0.75°)	1°48' +/- 45' (1.80° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-PRTSHA	P245/75R16	0°31' +/- 45' (0.52° +/- 0.75°)	2°10' +/- 45' (2.17° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-PRTSHA (FIRM SUSPENSION)	P245/75R16	0°31' +/- 45' (0.52° +/- 0.75°)	1°59' +/- 45' (1.99° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-PRTSHA	265/70R16	0°31' +/- 45' (0.52° +/- 0.75°)	2°6' +/- 45' (2.10° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-PRTSHA (FIRM SUSPENSION)	265/70R16	0°31' +/- 45' (0.52° +/- 0.75°)	1°55' +/- 45' (1.92° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-PRTSHA	P265/65R17	0°31' +/- 45' (0.52° +/- 0.75°)	2°9' +/- 45' (2.15° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN325L-PRTSHA (FIRM SUSPENSION)	P265/65R17	0°31' +/- 45' (0.52° +/- 0.75°)	1°58' +/- 45' (1.97° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN330L-PRTSHA	P245/75R16	0°35' +/- 45' (0.58° +/- 0.75°)	2°7' +/- 45' (2.11° +/- 0.75°)	11°53' +/- 45' (11.88° +/- 0.75°)
GRN330L-PRTSHA (FIRM SUSPENSION)	P245/75R16	0°35' +/- 45' (0.58° +/- 0.75°)	1°57' +/- 45' (1.95° +/- 0.75°)	11°53' +/- 45' (11.88° +/- 0.75°)
GRN330L-PRTSHA	265/70R16	0°32' +/- 45' (0.54° +/- 0.75°)	2°5' +/- 45' (2.09° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN330L-PRTSHA (FIRM SUSPENSION)	265/70R16	0°32' +/- 45' (0.54° +/- 0.75°)	1°56' +/- 45' (1.93° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN330L-PRTSHA	P265/65R17	0°35' +/- 45' (0.58° +/- 0.75°)	2°6' +/- 45' (2.11° +/- 0.75°)	11°53' +/- 45' (11.88° +/- 0.75°)
GRN330L-PRTSHA (FIRM SUSPENSION)	P265/65R17	0°35' +/- 45' (0.58° +/- 0.75°)	1°57' +/- 45' (1.95° +/- 0.75°)	11°53' +/- 45' (11.88° +/- 0.75°)
GRN325L-PRTSHA	P265/65R17	0°43' +/- 45' (0.71° +/- 0.75°)	1°52' +/- 45' (1.87° +/- 0.75°)	11°44' +/- 45' (11.74° +/- 0.75°)
GRN325L-PRTLHA	P265/60R18	0°32' +/- 45' (0.54° +/- 0.75°)	2°12' +/- 45' (2.20° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN325L-PRTLHA (FIRM SUSPENSION)	P265/60R18	0°32' +/- 45' (0.54° +/- 0.75°)	2°2' +/- 45' (2.03° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)

VEHICLE MODEL	TIRE SIZE	CAMBER	CASTER	STEERING AXIS INCLINATION
GRN330L-PRTLHA	P265/60R18	0°34' +/- 45' (0.56° +/- 0.75°)	2°10' +/- 45' (2.16° +/- 0.75°)	11°54' +/- 45' (11.90° +/- 0.75°)
GRN330L-PRTLHA (FIRM SUSPENSION)	P265/60R18	0°34' +/- 45' (0.56° +/- 0.75°)	2° +/- 45' (2.00° +/- 0.75°)	11°54' +/- 45' (11.90° +/- 0.75°)
GRN305L-PRTLHA	P265/60R18	0°31' +/- 45' (0.52° +/- 0.75°)	2°12' +/- 45' (2.20° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN305L-PRTLHA (FIRM SUSPENSION)	P265/60R18	0°31' +/- 45' (0.52° +/- 0.75°)	2°1' +/- 45' (2.01° +/- 0.75°)	11°56' +/- 45' (11.93° +/- 0.75°)
GRN310L-PRTLHA	P265/60R18	0°32' +/- 45' (0.54° +/- 0.75°)	2°10' +/- 45' (2.17° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)
GRN310L-PRTLHA (FIRM SUSPENSION)	P265/60R18	0°32' +/- 45' (0.54° +/- 0.75°)	2°1' +/- 45' (2.01° +/- 0.75°)	11°55' +/- 45' (11.91° +/- 0.75°)

NOTICE:

- Inspect while the vehicle is unloaded.
- The tolerance for the difference between the left and right wheels is 0°30' (0.50°) or less for both the camber and caster.

If the steering axis inclination is not as specified after the camber and caster have been correctly adjusted, recheck the steering knuckle and front wheel for distortion and slack.

4. ADJUST CAMBER AND CASTER

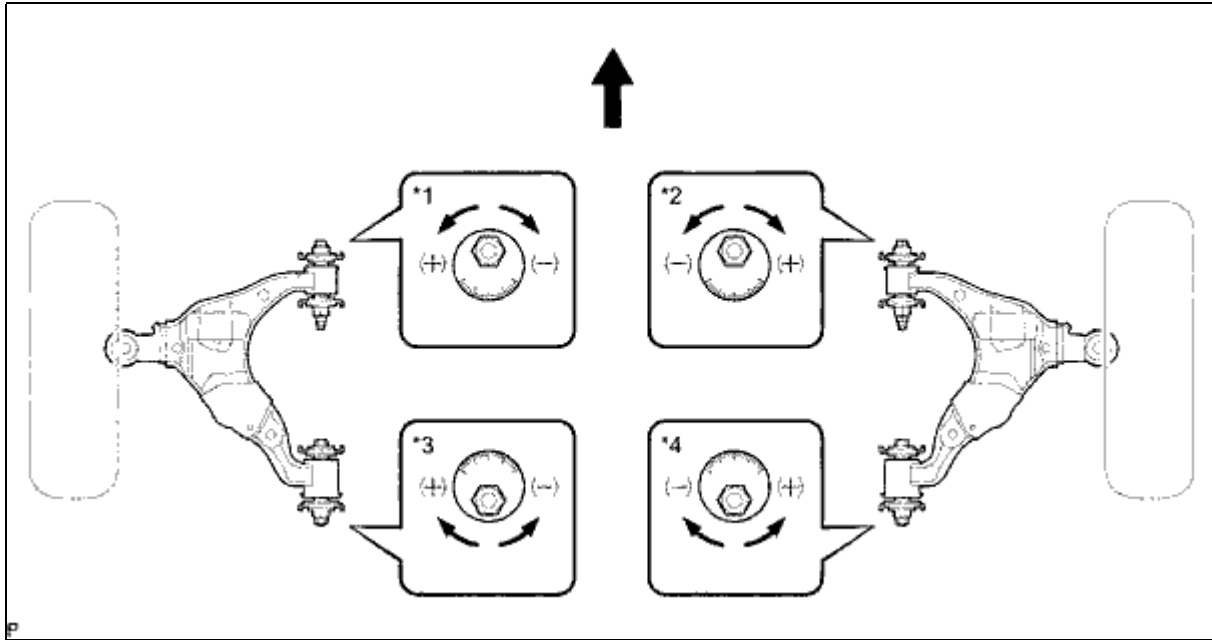
NOTICE:

Inspect the toe-in after the camber has been adjusted.

- Loosen the nut and bolt.
- Turn the front adjust cam and the rear adjust cam in both directions, and adjust the camber and caster to the center value.

HINT:

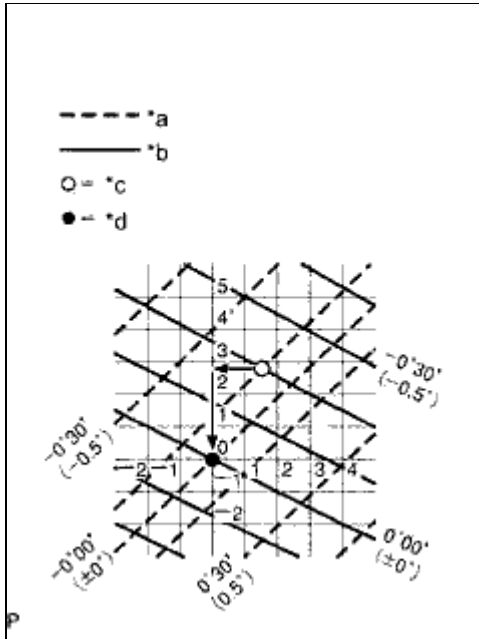
Try to adjust the camber and caster to the center value.



Text in Illustration

*1	Front Adjust Cam (LH)	*2	Front Adjust Cam (RH)
*3	Rear Adjust Cam (LH)	*4	Rear Adjust Cam (RH)
➡	Front of the Vehicle	-	-

(c) How to read the adjustment chart (using examples).



Text in Illustration

*a	Caster
*b	Camber
*c	Calculated Value

(1) Measure the present alignment.

Camber:

0°17' (0.28°)

Caster:

1°28' (1.47°)

(2) Calculate the difference between the standard value (A) and the measured value (B) on the adjustment chart.

Standard value:

Camber

0°37' (0.61°)

Caster

1°38' (1.64°)

Formula

$B - A = C$

Camber

$0°17' - (0°37') = -0°20'$

Caster

$1°28' - (1°38') = -0°10'$

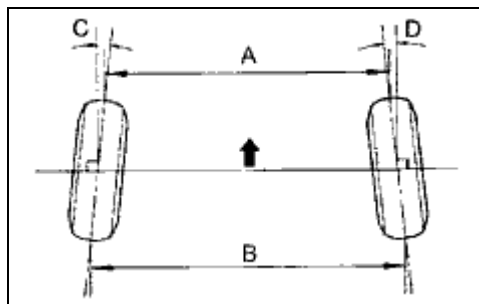
(3) As shown in the chart, read the distance from the marked point to the 0 point, and adjust the front and/or rear adjust cams accordingly.

Front adjust cam:

- (Shorter) 2.8

Rear adjust cam:

- (Shorter) 1.5



Text in Illustration

	Front of the Vehicle
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Toe-in (Unloaded Vehicle):

VEHICLE MODEL	TIRE SIZE	C + D	B - A
TRN245L-CRMSKA	P245/75R16	0°06 ' +/- 0°10 '(0.095° +/- 0.161°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
TRN245L-CRMSKA (FIRM SUSPENSION)	P245/75R16	0°06 ' +/- 0°10 '(0.095° +/- 0.161°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
TRN245L-CRTSKA	P245/75R16	0°04 ' +/- 0°10 '(0.071° +/- 0.161°)	0.89 +/- 2mm(0.035 +/- 0.08 in.)
TRN245L-CRTSKA (FIRM SUSPENSION)	P245/75R16	0°04 ' +/- 0°10 '(0.071° +/- 0.161°)	0.89 +/- 2mm(0.035 +/- 0.08 in.)
GRN305L-CRFSHA	P245/75R16	0°06 ' +/- 0°10 '(0.096° +/- 0.161°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN305L-CRFSHA (FIRM SUSPENSION)	P245/75R16	0°06 ' +/- 0°10 '(0.096° +/- 0.161°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN305L-CRFSHA	265/70R16	0°05 ' +/- 0°10 '(0.083° +/- 0.159°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-CRFSHA (FIRM SUSPENSION)	265/70R16	0°05 ' +/- 0°10 '(0.083° +/- 0.159°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-CRFSHA	P265/65R17	0°06 ' +/- 0°10 '(0.096° +/- 0.160°)	1.20 +/- 2mm(0.047 +/- 0.08 in.)
GRN305L-CRFSHA (FIRM SUSPENSION)	P265/65R17	0°06 ' +/- 0°10 '(0.096° +/- 0.160°)	1.20 +/- 2mm(0.047 +/- 0.08 in.)
GRN305L-CRTSHA	P245/75R16	0°06 ' +/- 0°10 '(0.108° +/- 0.161°)	1.33 +/- 2mm(0.052 +/- 0.08 in.)
GRN305L-CRTSHA (FIRM SUSPENSION)	P245/75R16	0°06 ' +/- 0°10 '(0.108° +/- 0.161°)	1.33 +/- 2mm(0.052 +/- 0.08 in.)
GRN305L-CRTSHA	265/70R16	0°06 ' +/- 0°10 '(0.095° +/- 0.159°)	1.19 +/- 2mm(0.047 +/- 0.08 in.)
GRN305L-CRTSHA (FIRM SUSPENSION)	265/70R16	0°06 ' +/- 0°10 '(0.095° +/- 0.159°)	1.19 +/- 2mm(0.047 +/- 0.08 in.)
GRN305L-CRTSHA	P265/65R17	0°06 ' +/- 0°10 '(0.108° +/- 0.160°)	1.35 +/- 2mm(0.053 +/- 0.08 in.)
GRN305L-CRTSHA (FIRM SUSPENSION)	P265/65R17	0°06 ' +/- 0°10 '(0.108° +/- 0.160°)	1.35 +/- 2mm(0.053 +/- 0.08 in.)
GRN305L-PRFSHA	P245/75R16	0°06 ' +/- 0°10 '(0.096° +/- 0.161°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN305L-PRFSHA (FIRM SUSPENSION)	P245/75R16	0°06 ' +/- 0°10 '(0.096° +/- 0.161°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)

VEHICLE MODEL	TIRE SIZE	C + D	B - A
GRN305L-PRFSHA	265/70R16	0°05 ' +/- 0°10 '(0.083°+/- 0.159°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-PRFSHA (FIRM SUSPENSION)	265/70R16	0°05 ' +/- 0°10 '(0.083°+/- 0.159°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-PRFSHA	P265/65R17	0°06 ' +/- 0°10 '(0.096°+/- 0.160°)	1.20 +/- 2mm(0.047 +/- 0.08 in.)
GRN305L-PRFSHA (FIRM SUSPENSION)	P265/65R17	0°06 ' +/- 0°10 '(0.096°+/- 0.160°)	1.20 +/- 2mm(0.047 +/- 0.08 in.)
GRN305L-PRTSHA	P245/75R16	0°05 ' +/- 0°10 '(0.084°+/- 0.161°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-PRTSHA (FIRM SUSPENSION)	P245/75R16	0°05 ' +/- 0°10 '(0.084°+/- 0.161°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-PRTSHA	265/70R16	0°05 ' +/- 0°10 '(0.083°+/- 0.159°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-PRTSHA (FIRM SUSPENSION)	265/70R16	0°05 ' +/- 0°10 '(0.083°+/- 0.159°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-PRTSHA	P265/65R17	0°05 ' +/- 0°10 '(0.084°+/- 0.160°)	1.05 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-PRTSHA (FIRM SUSPENSION)	P265/65R17	0°05 ' +/- 0°10 '(0.084°+/- 0.160°)	1.05 +/- 2mm(0.041 +/- 0.08 in.)
GRN310L-PRTSHA	P245/75R16	0°06 ' +/- 0°10 '(0.096°+/- 0.161°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN310L-PRTSHA (FIRM SUSPENSION)	P245/75R16	0°06 ' +/- 0°10 '(0.096°+/- 0.161°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN310L-PRTSHA	265/70R16	0°06 ' +/- 0°10 '(0.096°+/- 0.159°)	1.20 +/- 2mm(0.047 +/- 0.08 in.)
GRN310L-PRTSHA (FIRM SUSPENSION)	265/70R16	0°06 ' +/- 0°10 '(0.096°+/- 0.159°)	1.20 +/- 2mm(0.047 +/- 0.08 in.)
GRN310L-PRTSHA	P265/65R17	0°06 ' +/- 0°10 '(0.096°+/- 0.160°)	1.20 +/- 2mm(0.047 +/- 0.08 in.)
GRN310L-PRTSHA (FIRM SUSPENSION)	P265/65R17	0°06 ' +/- 0°10 '(0.096°+/- 0.160°)	1.20 +/- 2mm(0.047 +/- 0.08 in.)
GRN305L-PRTSHA	P265/65R17	0°13 ' +/- 0°10 '(0.217°+/- 0.160°)	2.72 +/- 2mm(0.107 +/- 0.08 in.)
TRN265L-CRTSKA	P245/75R16	0°07 ' +/- 0°10 '(0.118°+/- 0.160°)	1.48 +/- 2mm(0.058 +/- 0.08 in.)
TRN265L-CRTSKA (FIRM SUSPENSION)	P245/75R16	0°07 ' +/- 0°10 '(0.118°+/- 0.160°)	1.48 +/- 2mm(0.058 +/- 0.08 in.)
TRN265-PRTSKA	P245/75R16	0°04 ' +/- 0°10 '(0.071°+/- 0.160°)	0.89 +/- 2mm(0.035 +/- 0.08 in.)
TRN265-PRTSKA (FIRM SUSPENSION)	P245/75R16	0°04 ' +/- 0°10 '(0.071°+/- 0.160°)	0.89 +/- 2mm(0.035 +/- 0.08 in.)
GRN325L-CRTSHA	P245/75R16	0°05 ' +/- 0°10 '(0.083°+/- 0.160°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-CRTSHA (FIRM SUSPENSION)	P245/75R16	0°05 ' +/- 0°10 '(0.083°+/- 0.160°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-CRTSHA	265/70R16	0°05 ' +/- 0°10 '(0.082°+/- 0.158°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-CRTSHA (FIRM SUSPENSION)	265/70R16	0°05 ' +/- 0°10 '(0.082°+/- 0.158°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-CRTSHA	P265/65R17	0°05 ' +/- 0°10 '(0.084°+/- 0.160°)	1.05 +/- 2mm(0.041 +/- 0.08 in.)

VEHICLE MODEL	TIRE SIZE	C + D	B - A
GRN325L-CRTSHA (FIRM SUSPENSION)	P265/65R17	0°05 ' +/- 0°10 '(0.084° +/- 0.160°)	1.05 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-PRTSHA	P245/75R16	0°05 ' +/- 0°10 '(0.083° +/- 0.160°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-PRTSHA (FIRM SUSPENSION)	P245/75R16	0°05 ' +/- 0°10 '(0.083° +/- 0.160°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-PRTSHA	265/70R16	0°05 ' +/- 0°10 '(0.082° +/- 0.158°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-PRTSHA (FIRM SUSPENSION)	265/70R16	0°05 ' +/- 0°10 '(0.082° +/- 0.158°)	1.04 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-PRTSHA	P265/65R17	0°05 ' +/- 0°10 '(0.084° +/- 0.160°)	1.05 +/- 2mm(0.041 +/- 0.08 in.)
GRN325L-PRTSHA (FIRM SUSPENSION)	P265/65R17	0°05 ' +/- 0°10 '(0.084° +/- 0.160°)	1.05 +/- 2mm(0.041 +/- 0.08 in.)
GRN330L-PRTSHA	P245/75R16	0°07 ' +/- 0°10 '(0.119° +/- 0.161°)	1.48 +/- 2mm(0.058 +/- 0.08 in.)
GRN330L-PRTSHA (FIRM SUSPENSION)	P245/75R16	0°07 ' +/- 0°10 '(0.119° +/- 0.161°)	1.48 +/- 2mm(0.058 +/- 0.08 in.)
GRN330L-PRTSHA	265/70R16	0°06 ' +/- 0°10 '(0.094° +/- 0.158°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN330L-PRTSHA (FIRM SUSPENSION)	265/70R16	0°06 ' +/- 0°10 '(0.094° +/- 0.158°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN330L-PRTSHA	P265/65R17	0°07 ' +/- 0°10 '(0.120° +/- 0.160°)	1.50 +/- 2mm(0.059 +/- 0.08 in.)
GRN330L-PRTSHA (FIRM SUSPENSION)	P265/65R17	0°07 ' +/- 0°10 '(0.120° +/- 0.160°)	1.50 +/- 2mm(0.059 +/- 0.08 in.)
GRN325L-PRTSHA	P265/65R17	0°14 ' +/- 0°10 '(0.232° +/- 0.160°)	2.91 +/- 2mm(0.115 +/- 0.08 in.)
GRN325L-PRTLHA	P265/60R18	0°06 ' +/- 0°10 '(0.093° +/- 0.158°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN325L-PRTLHA (FIRM SUSPENSION)	P265/60R18	0°06 ' +/- 0°10 '(0.093° +/- 0.158°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN330L-PRTLHA	P265/60R18	0°06 ' +/- 0°10 '(0.106° +/- 0.158°)	1.34 +/- 2mm(0.053 +/- 0.08 in.)
GRN330L-PRTLHA (FIRM SUSPENSION)	P265/60R18	0°06 ' +/- 0°10 '(0.106° +/- 0.158°)	1.34 +/- 2mm(0.053 +/- 0.08 in.)
GRN305L-PRTLHA	P265/60R18	0°05 ' +/- 0°10 '(0.083° +/- 0.159°)	1.05 +/- 2mm(0.041 +/- 0.08 in.)
GRN305L-PRTLHA (FIRM SUSPENSION)	P265/60R18	0°05 ' +/- 0°10 '(0.083° +/- 0.159°)	1.05 +/- 2mm(0.041 +/- 0.08 in.)
GRN310L-PRTLHA	P265/65R17	0°06 ' +/- 0°10 '(0.095° +/- 0.160°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)
GRN310L-PRTLHA (FIRM SUSPENSION)	P265/65R17	0°06 ' +/- 0°10 '(0.095° +/- 0.160°)	1.18 +/- 2mm(0.046 +/- 0.08 in.)

HINT:

Measure "B - A" only when "C + D" cannot be measured.

If the toe-in is not within the specified range, adjust it at the rack ends.

6. ADJUST TOE-IN

- Remove the rack boot set clips.

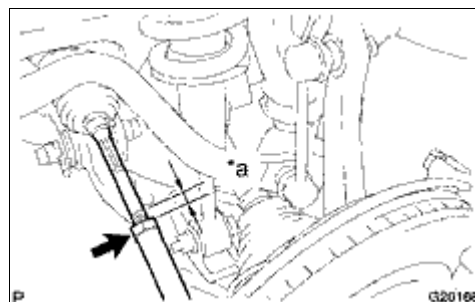
- (b) Loosen the tie rod end lock nuts.
- (c) Turn the right and left rack ends uniformly to adjust the toe-in to the center value.
- (d) Make sure that the lengths of the right and left rack ends are the same.

Text in Illustration

*a	Length
----	--------

Standard difference:

0 +/- 1 mm (0 +/- 0.0394 in.) or less



- (e) Tighten the tie rod end lock nuts.

Torque:

56 N·m {566 kgf·cm, 41ft·lbf}

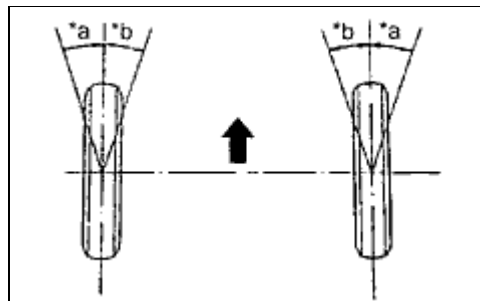
- (f) Place the boots on the seats and install the rear boot set clips.

HINT:

Make sure that the boots are not twisted.

7. INSPECT WHEEL TURNING ANGLE

- (a) Turn the steering wheel fully, and measure the turning angle.



Text in Illustration

*a	Inside
*b	Outside
	Front of the Vehicle

Wheel Turning Angle (Unloaded Vehicle):

INSIDE WHEEL	OUTSIDE WHEEL (REFERENCE)
39.30° (37.30° to 40.30°)	34.90° (32.90° to 35.90°)

If the right and left turning angles of the inside and outside wheels are not within the specified ranges, check the right and left rack end lengths.

8. PERFORM YAW RATE SENSOR ZERO POINT CALIBRATION (for Hydraulic Brake Booster)

9. PERFORM YAW RATE SENSOR ZERO POINT CALIBRATION (for Vacuum Brake Booster)

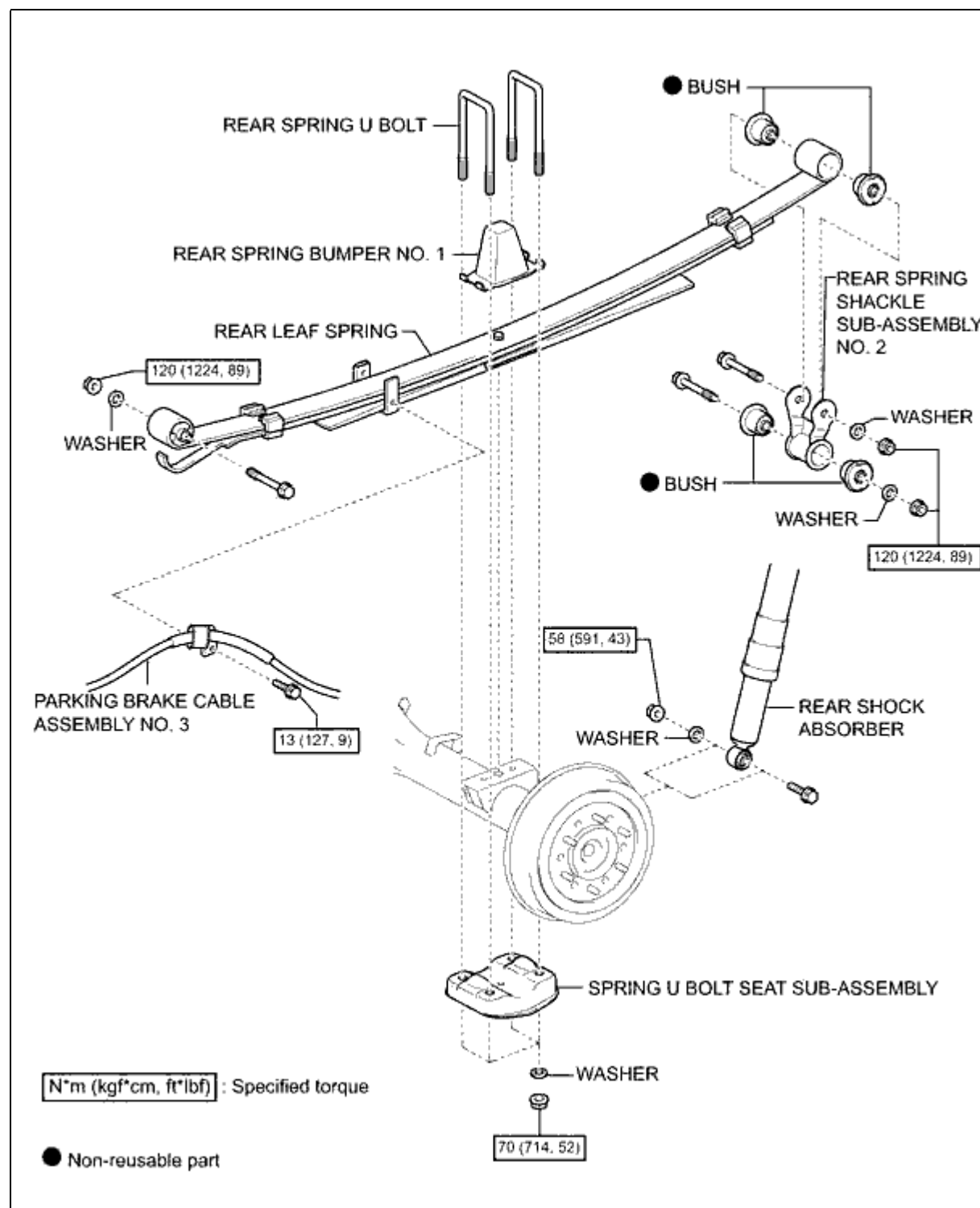
INFO



Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016N700BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR LEAF SPRING: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

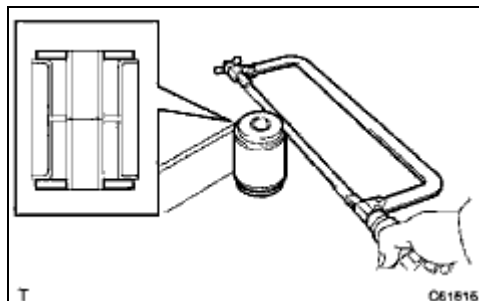
ILLUSTRATION



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016N900BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR LEAF SPRING: DISASSEMBLY; 2016 MY Tacoma [08/2015 -]		

DISASSEMBLY

1. REMOVE BUSH



- (a) Fix the spring in a vise.
- (b) Using a hack saw, cut both ends off the bushes.

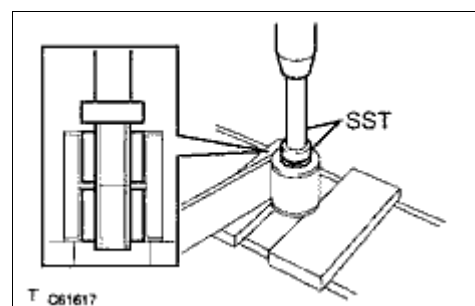
- (c) Using SST and a press, press out the 2 bushes.

SST: 09950-60010

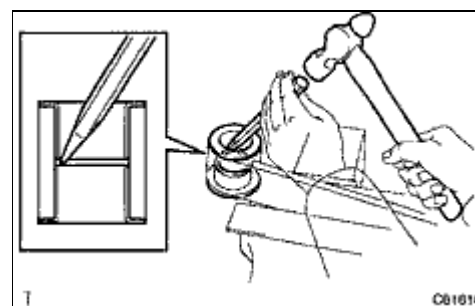
09951-00350

SST: 09950-70010

09951-07100



- (d) Using a chisel and hammer, tap out the 2 outer tubes.

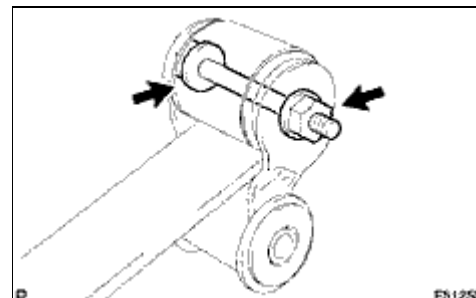


Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016N600BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR LEAF SPRING: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

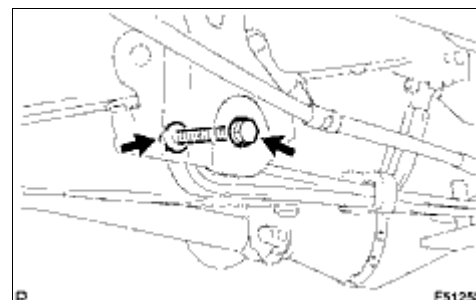
1. INSTALL REAR SPRING SHACKLE SUB-ASSEMBLY NO. 2

- (a) Install the shackle with the through bolt, washer and nut.

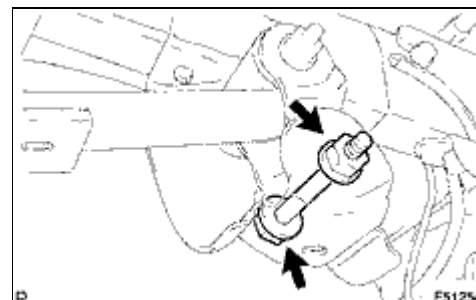


2. INSTALL REAR LEAF SPRING

- (a) Place the spring in the rear axle housing.
 (b) Align the hole of the rear axle housing with the head of the spring center bolt.



- (c) Install the through bolt, washer and nut.



- (d) Install the through bolt, washer and nut.

3. INSTALL REAR SPRING U BOLT

- (a) Install the spring bumper.

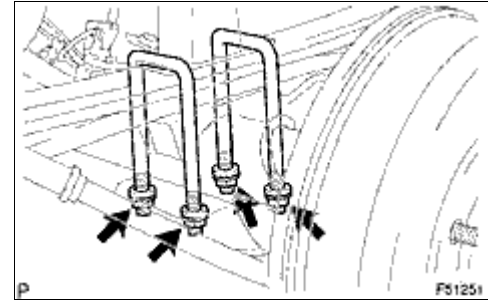
(b) Install the spring seat, 2 U-bolts, 4 washers and 4 nuts.

Torque:

70 N·m {714 kgf·cm, 52ft·lbf}

HINT:

Tighten the U-bolts until the lengths of all the U-bolts under the spring seat are the same.

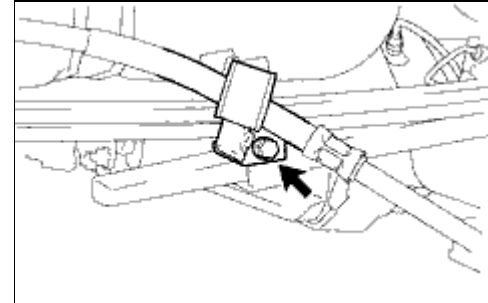


4. INSTALL PARKING BRAKE CABLE ASSEMBLY NO. 3

(a) Install the parking brake cable with the bolt.

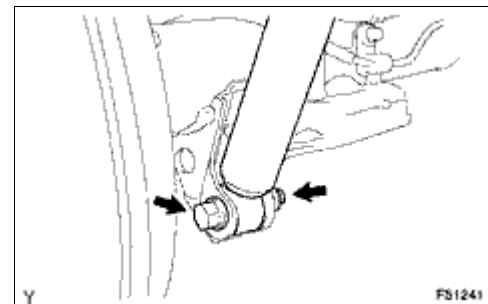
Torque:

13 N·m {127 kgf·cm, 9ft·lbf}



5. INSTALL REAR SHOCK ABSORBER

(a) Install the shock absorber with the bolt, nut and washer.



6. INSTALL REAR WHEEL

Torque:

113 N·m {1152 kgf·cm, 83ft·lbf}

7. STABILIZE REAR SUSPENSION

(a) Lower the vehicle.

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

8. FULLY TIGHTEN REAR SUSPENSION

(a) Tighten the nuts and bolts of the rear suspension parts.

Torque:

PART TIGHTENED	N*M	KGF*CM	FT.*LBF
Rear LH spring x Rear spring shackle	120	1224	89
Rear LH spring x Frame	120	1224	89
Rear spring shackle x Frame	120	1224	89
Rear shock absorber x Rear axle housing	58	591	43

9. INSTALL SPARE TIRE



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016NA00BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR LEAF SPRING: REASSEMBLY; 2016 MY Tacoma [08/2015 -]		

REASSEMBLY

1. INSTALL BUSH

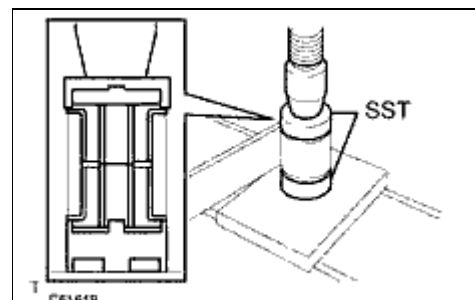
(a) Using SST and a press, press in 2 new bushes.

SST: 09710-28012

09710-07062

SST: 09710-30041

09710-03211



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016N800BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR LEAF SPRING: REMOVAL; 2016 MY Tacoma [08/2015 -]		

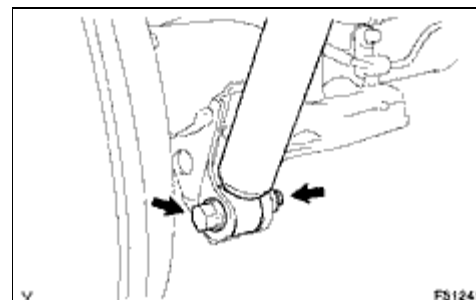
REMOVAL

1. REMOVE REAR WHEEL

2. REMOVE SPARE TIRE

3. SEPARATE REAR SHOCK ABSORBER

(a) Support the rear axle housing.

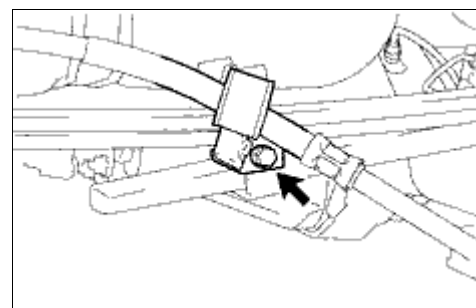


(b) Remove the bolt, nut and washer.

(c) Separate the shock absorber from the rear axle housing.

4. SEPARATE PARKING BRAKE CABLE ASSEMBLY NO. 3

(a) Remove the bolt, then separate the parking brake cable.

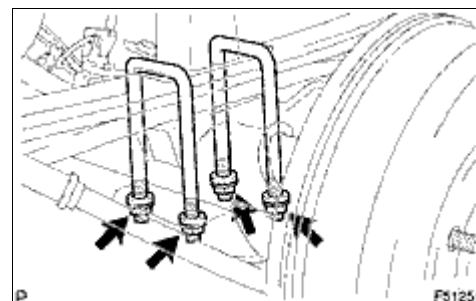


5. REMOVE REAR SPRING U BOLT

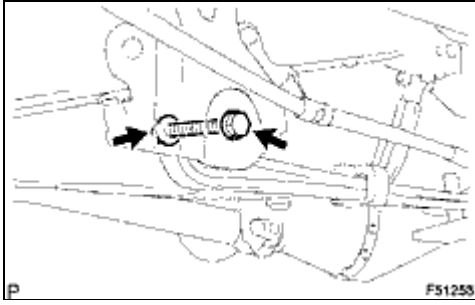
(a) Remove the 4 nuts and 4 washers.

(b) Remove the spring seat and 2 U-bolts.

(c) Remove the spring bumper.



6. REMOVE REAR LEAF SPRING

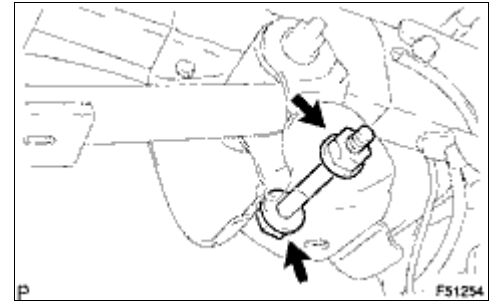


(a) Remove the nut, washer and through bolt.

(b) Remove the nut, washer and through bolt.

NOTICE:

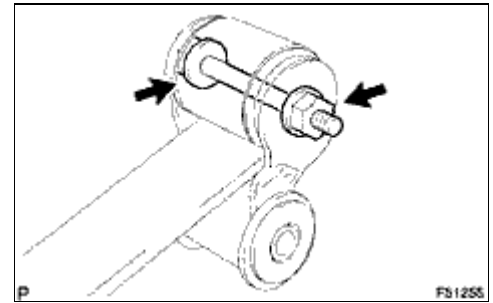
Be careful not to drop the spring when removing the through bolt.



(c) Remove the spring.

7. REMOVE REAR SPRING SHACKLE SUB-ASSEMBLY NO. 2

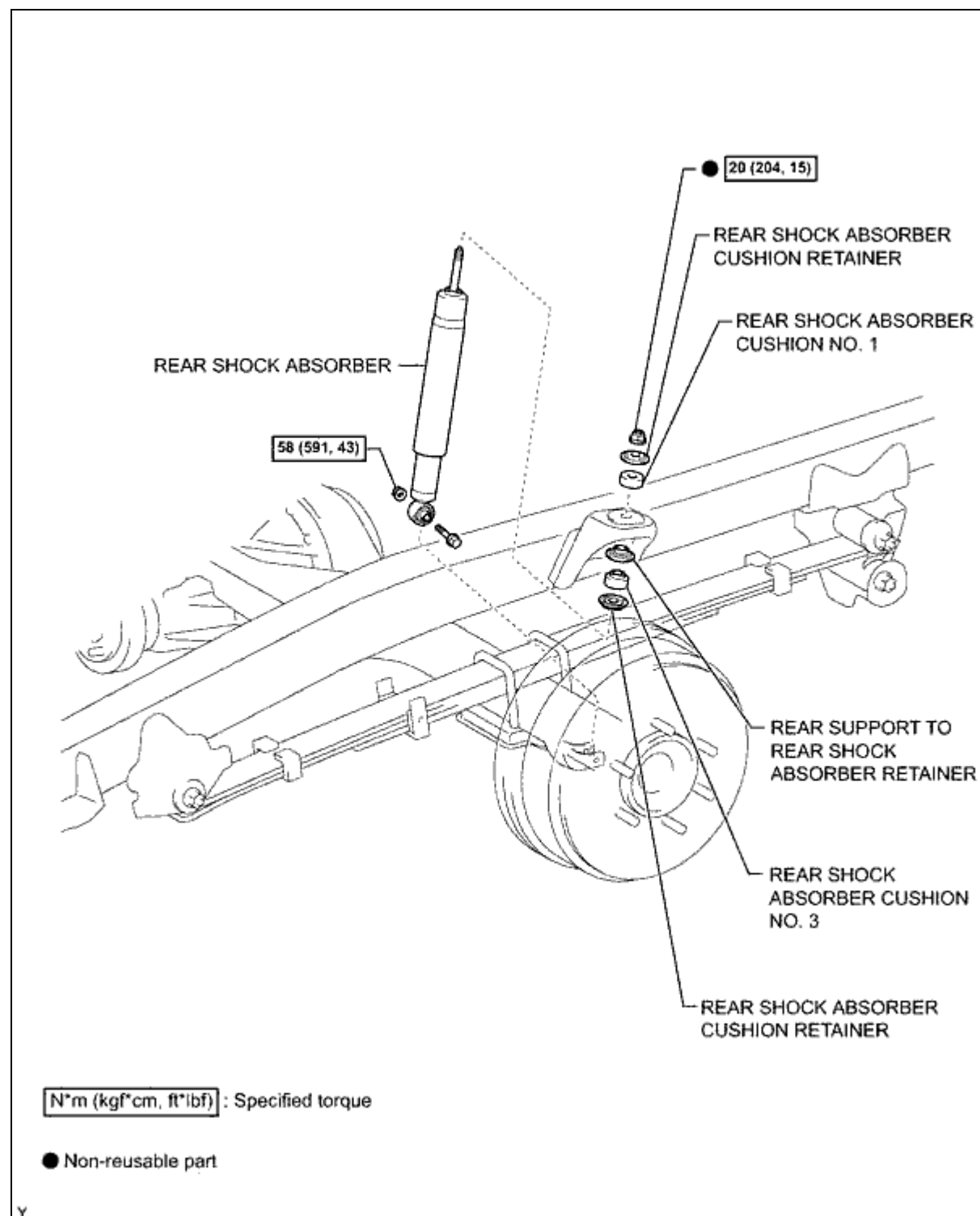
(a) Remove the nut, washer, through bolt and shackle.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016N400BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR SHOCK ABSORBER: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



Last Modified: 11-13-2015	6.6 N	Doc ID: RM0000016N100BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR SHOCK ABSORBER: DISPOSAL; 2016 MY Tacoma [08/2015 -]		

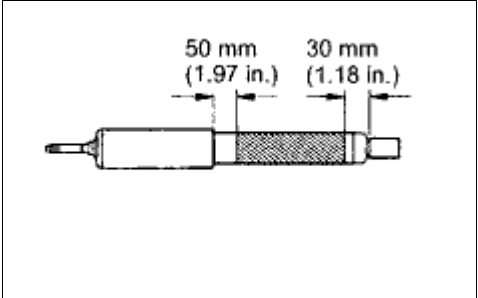
DISPOSAL

1. DISPOSE OF REAR SHOCK ABSORBER

- (a) Fully extend the shock absorber rod.
- (b) Using a drill, make a hole in the shaded area of the cylinder as shown in the illustration, to discharge the gas inside.

CAUTION:

- Be careful when drilling because shards of metal may scatter.
- The gas is colorless, odorless and non-poisonous.



Last Modified: 11-13-2015	6.6 G	Doc ID: RM0000016N300BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR SHOCK ABSORBER: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT REAR SHOCK ABSORBER

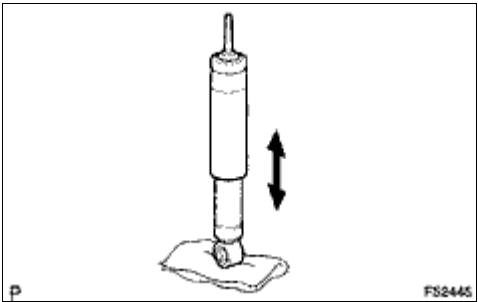
- (a) Compress and extend the shock absorber rod and check that there is no abnormal resistance or abnormal sounds during operation.

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

NOTICE:

When disposing of the shock absorber, see DISPOSAL on page

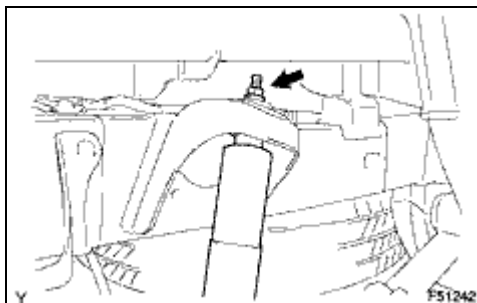
[INFO](#) .



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016N200BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR SHOCK ABSORBER: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

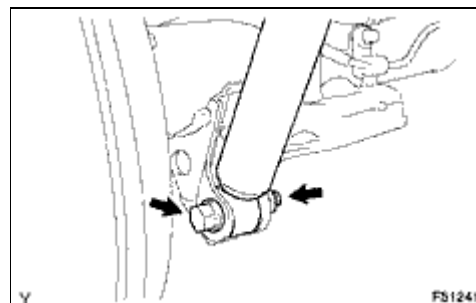
INSTALLATION

1. INSTALL REAR SHOCK ABSORBER



(a) Install the 3 cushion retainers, cushion No. 1, cushion No. 3 and shock absorber with a new nut.

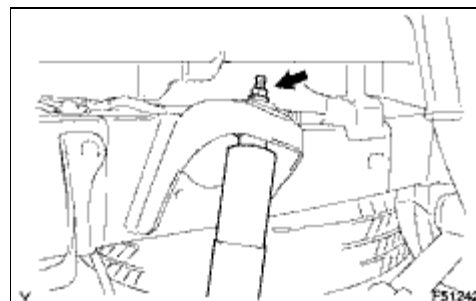
(b) Install the shock absorber with the bolt, nut and washer.



(c) Fully tighten the nut.

Torque:

20 N·m {204 kgf·cm, 15ft·lbf}



2. INSTALL REAR WHEEL

Torque:

113 N·m {1152 kgf·cm, 83ft·lbf}

3. STABILIZE SUSPENSION

(a) Jack down the vehicle.

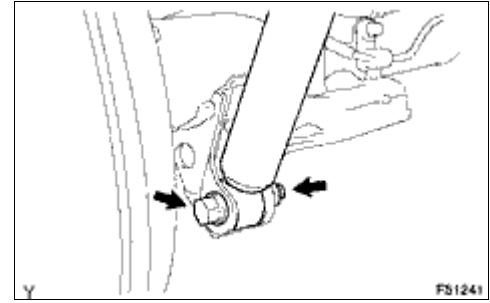
(b) Bounce the vehicle up and down several times to stabilize the suspension.

4. FULLY TIGHTEN REAR SHOCK ABSORBER

(a) Fully tighten the nut.

Torque:

58 N·m {591 kgf·cm, 43ft·lbf}

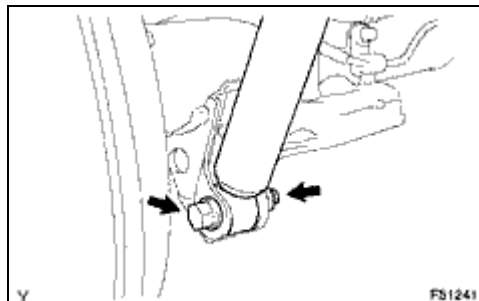


Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016N500BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: REAR SHOCK ABSORBER: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

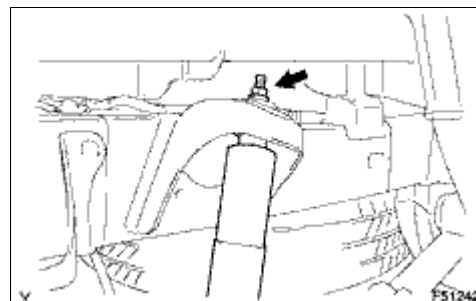
1. REMOVE REAR WHEEL

2. REMOVE REAR SHOCK ABSORBER



- (a) Support the rear axle housing.
- (b) Remove the bolt, nut and washer.
- (c) Separate the shock absorber from the rear axle housing.

- (d) Remove the nut, 3 cushion retainers, cushion No. 1, cushion No. 3 and shock absorber.



Last Modified: 11-13-2015	6.6 T	Doc ID: RM0000016JN00NX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: SUSPENSION: SUSPENSION SYSTEM: PROBLEM SYMPTOMS TABLE; 2016 MY Tacoma [08/2015 -]		

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.

Suspension System

SYMPTOM	SUSPECTED AREA	SEE PAGE
Bottoming	Vehicle (Overloaded)	-
	Front coil spring (Weak)	INFO
	Rear leaf spring	INFO
	Front shock absorber (Worn)	INFO
	Rear shock absorber (Worn)	INFO
Swaying/pitching	Tire (Worn or improperly inflated)	INFO
	Front stabilizer bar (Bent or broken)	INFO
	Front shock absorber (Worn)	INFO
	Rear shock absorber (Worn)	INFO
Front wheel shimmy	Tire (Worn or improperly inflated)	INFO
	Wheel (Out of balance)	INFO
	Front shock absorber (Worn)	INFO
	Wheel alignment (Incorrect)	INFO
	Upper ball joint (Worn)	INFO
	Lower ball joint (Worn)	INFO
	Hub bearing (Worn)	INFO
	Steering linkage (Loose or worn)	-
Rear wheel shimmy	Tire (Worn or improperly inflated)	INFO
	Wheel (Out of balance)	INFO
	Rear shock absorber (Worn)	INFO
	Wheel alignment (Incorrect)	INFO
	Hub bearing (Worn)	INFO
Abnormal tire wear	Tire (Worn or improperly inflated)	INFO
	Wheel alignment (Incorrect)	INFO
	Front shock absorber (Worn)	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
	Rear shock absorber (Worn)	INFO
	Suspension parts (Worn)	-

