belltech®

INSTALLATION GUIDE

PART NUMBER: 34319 / 45320
PRO-COIL SPRINGS
RAM 1500 2WD / 4WD | 2019+

****NEW GENERATION 6 LUG MODELS ONLY****

REAR ADJUSTABLE LOWERED RIDE HEIGHTS WILL VARY DEPENDING ON THE BELLTECH KIT SELECTED

34319: -3” TO -4”

45320: -4” TO -5”

300 W. PONTIAC WAY. CLOVIS, CA 93612

PHONE: 800-445-3767 | EMAIL: INFO@BELLTECH.COM

THANK YOU

Thank you for choosing our high quality Belltech product. We have spent a great deal of time developing our line of products so that you will receive maximum performance with minimal difficulty during installation. Soon your vehicle will be on the road looking and feeling much improved.

Please take a moment to read all instructions and warnings prior to installation of your new Belltech product and before operating your vehicle. If you have any questions or concerns regarding any step in the installation process, please do not hesitate to call or email our customer support specialists who are trained to help you through any portion of this process.

Before You Begin:

It is of the utmost importance that you confirm all of the components listed on the parts list is in the kit. You can find this list located on the last page(s) of your instructions. Do not begin installation if any part is missing. Instead, please call our Belltech customer service specialists.

Belltech Customer Support:

Phone: 1-800-445-3767

Email: info@belltech.com

Safety Information:

Warning: Do not work under a vehicle supported only by a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

Proper use of safety equipment and eye/face/hand protection is absolutely necessary when performing any of the following instructions.

We strive for an exceptional experience for all our valued customers. If for any reason you need assistance with your Belltech products, please do not return the product to the store you purchased from, but rather call our dedicated customer service experts, from 7am to 5pm PST.

We recommend that a qualified mechanic, at a properly equipped facility, perform this installation.

It is very helpful to have an assistant available during installation.

Before Driving Your Vehicle:

It is important to double check all brake hoses, cables, and other components to be sure there is no interference. You must also check for wheel/tire to chassis/body interference. If any issues are found, review your installation instructions to be sure no steps were missed and any problems are corrected.

Make sure your vehicle is aligned immediately following installation.

Check all hardware and re-torque at intervals for the first 10, 100, and 1000 miles.

Some of Belltech's products are designed to improve your vehicle's off-road performance. Leveling/lifting your vehicle may result in an altered center of gravity. It is crucial to use extreme care when operating your vehicle to prevent rollover and/or loss of control.

Any changes in your vehicle's suspension may result in transformed handleability. Please test-drive your vehicle in a remote location so you can become accustomed to the revised driving characteristics.

Perform a headlight check and adjustment.

Failure to drive any modified vehicle in a safe manner may result in harm or death.

Never operate your modified vehicle under the influence of drugs, alcohol, or lack of adequate sleep.

Always wear your seatbelt.

DIFFICULTY:

INSTALLATION TIME: 3-4 Hours

RECOMMENDED TOOLS:

- Properly rated floor jack
- Transmission jack
- Wheel chocks
- Safety glasses
- Metric socket wrench set
- Metric wrench set
- Tape measure
- Marking pen

SPECIALTY TOOLS:

- Torque wrench up to 200 ft lbs.
- Die grinder equipped with abrasive cut-off wheel
- Stiff wire brush
- Spray paint

INSTALLATION PREPARATION:

Before beginning the installation process, measure the hub to fender heights for your vehicle and record them in the “Before” section. After your vehicle has been modified, record the new measurements in the, “After” section. This way, you can compare the resulting height to the original. When taking the measurements, measure vertically from the center of the wheel to the inner edge of the fender.

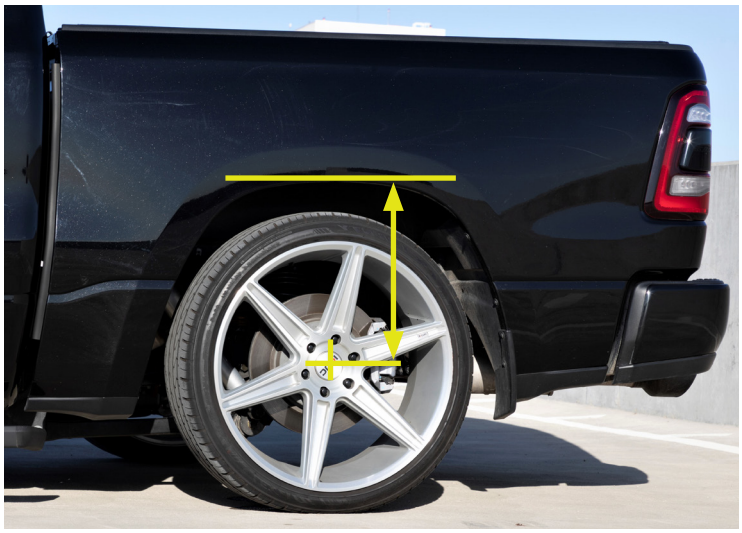
Before:

LF:_____

RF:_____

LR:_____

RR:_____



After:

LF:_____

RF:_____

LR:_____

RR:_____

JACKING, SUPPORTING, AND PREPARING THE VEHICLE

1. Park your vehicle on a smooth, level, concrete or seasoned asphalt surface.
2. Block the front wheels of the vehicle using wheel chocks. Make sure the vehicle's transmission is in "PARK" (automatic) or 1st gear (manual).
3. Activate the parking brake.
4. Break loose, but do not spin the wheel lug nuts to ease in removal when the wheels are in the air.
5. Lift the rear of the vehicle off the ground using a properly rated floor jack. Lift the vehicle so the rear tires are approximately 6-8 inches off the ground.
6. Place support stands rated for the vehicles weight. The stands should be positioned in the factory specified locations. (Refer to owners manual). Prior to lowering the vehicle onto stands, make sure the support stands will contact the chassis. It is very important that the vehicle is properly supported to prevent any harm to ones self or to the vehicle.
7. Lower the vehicle slowly onto the stands.
8. Remove the rear wheels.

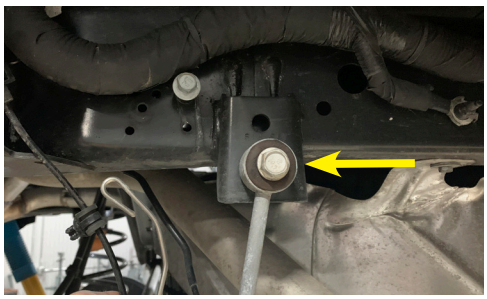
Technician reminder:

Never work under a vehicle supported only by a jack. It is necessary to place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

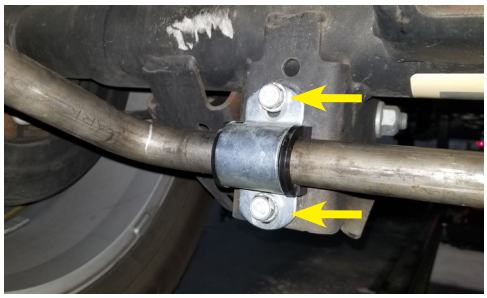
OEM REAR REMOVAL

9. Support the axle with a transmission jack or other suitable holding fixture.
10. Remove the 21mm nuts and bolts holding the track bar and detach it from the vehicle. Also remove the brake line clips from the lower track bar mount.
11. Remove the rear shock absorber lower 21mm nuts and bolts.
12. Remove the rear brake line bracket 13mm bolts and disconnect the brackets from both sides of the chassis.

13. Disconnect the sway bar end links 16mm upper bolts from the chassis.



14. Remove the 15mm pivot bushing bracket bolts and detach the sway bar assembly from the vehicle.



15. Mark the isolators to show how the locating tabs where seated spring pocket and where the original spring was positioned in the isolator. Lower the axle and remove both rear springs and rubber isolators from the vehicle.

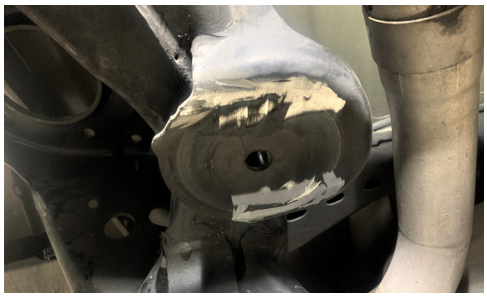
Technician reminder:

Do not lower the axle more than the brake hose slack allows, brake hose damage could occur.

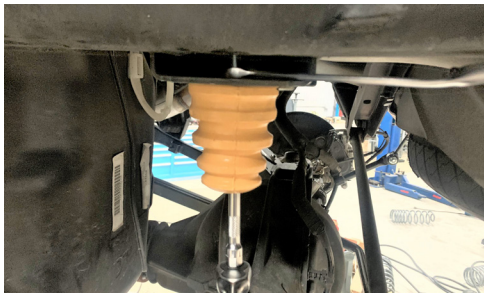
16. Pull out the bump stops from the retaining cups.

REAR INSTALLATION

17. Using a grinder with a cut off disk, or other cutting tool, cut off the stock bump stop retaining cups from the frame leaving only the base. Grind or file the base of all remaining weld material. Cover up the exposed bare metal with black spray paint.



18. Install the supplied bump stop onto the original bump stop base locating hole. Using a wrench with an extension, 13mm socket, and an open wrench, secure the bump stop with the supplied 8MM flat washer between the nyloc nut and base.

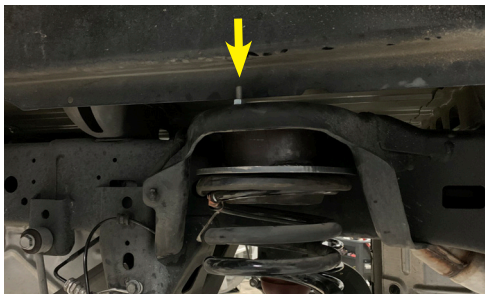


19. Transfer the OEM spring isolator to the 1” lift spacer. Ensure the locating tabs on the isolator fit into the spacer.

Technician reminder:

Keep in mind the markings made on the isolator showing how the locating tabs where seated spring pocket and where the original spring was positioned in the isolator.

20. The coil spring and spacer assembly must be installed with the spacer stud protruding through the hole to the outside of the spring pocket and the coil spring end is positioned in the same direction as the original spring was marked on the isolator.



Technician reminder:

To achieve maximum lowering do not install the 1” height spacers. Only install the springs with isolators. The coil spring must be installed so that the isolator locating tabs are positioned through the corresponding holes in the spring pocket and the coil spring end is positioned in the same direction as the original spring was marked.

REAR INSTALLATION CONTINUED

21. Raise the axle and align the shock absorber lower bolt hole to the OEM axle mount. Install the shock absorber lower bolt, torque to 103 ft lbs when the vehicle is back on the ground.

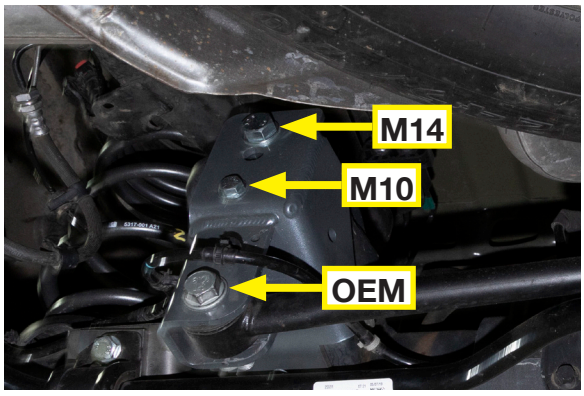
22. Place the Belltech roll correction bracket against the lower track bar mount. Secure it with the supplied M14 bolt, washers, tube spacer, and nyloc nut where the track bar was originally mounted. Torque to 127 ft lbs.

23. Place the flanged 45mm M10 bolt, washer, and nyloc nut through the third hole from the top. Torque to 50 ft lbs.

24. Place the 35mm M10 flag bolt through the hole closest the axle and fasten it with the a M10 washer and nyloc nut. Torque to 50 ft lbs.

25. Connect the brake line clips to the front and left side of the bracket, just above the new track bar mount.

26. Mount the track bar to the upper mount and the new lower mount on the Belltech roll correction bracket using the original nuts and bolts. Do not torque until the suspension is on load or the vehicle is back on the ground. Torque the upper mount nut to 96 ft lbs. and the lower mount nut to 127 ft lbs.



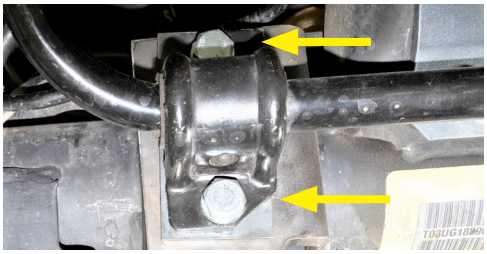
Technician reminder:

Do not torque the track bar at this time, doing so may cause the vehicle to hold height or bushings to bind. It is vital to secure and torque the track bar once the vehicle is on the ground and supporting its own weight.

REAR INSTALLATION

27. Reconnect the brake line brackets to the frame then install the rear brake hose bracket bolts and torque to 16 ft lbs.

28. Place the sway bar offset brackets over the pivot bushing mounts on the axle and mount the sway bar using the M10 bolts and washers. Torque to 37 ft lbs.



Technician reminder:

If rear control arm drop brackets kit part number 5320A is also being installed, discard the sway bar offset brackets 5320-070 included in this kit. Please proceed to install the sway bar offset brackets 5320-060 included with 5320A.

29. Connect the adjustable length end links to the chassis with the original upper bolt.

30. Extend the length of the end links to set the sway bar as parallel with the ground as possible, then tighten the jam nut to lock the end link length in place. Ensure it is parallel when on the ground, not in the air as bar will naturally be pointed upward when the suspension is at droop if the vehicle is up in the air.

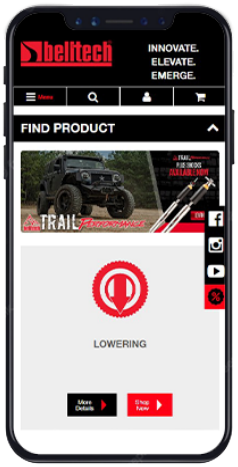
31. With the supplied spacers on each side of the heim joint, narrow side in, connect the lower end link inboard of the sway bar using the original nut and bolt. Torque the upper bolt to 41 ft lbs. and the lower nut to 66 ft lbs.

FINALIZING THE INSTALLATION

32. Re-install the wheels and tighten the lug nuts.
33. Lift the vehicle and remove the support stands.
34. Carefully lower the vehicle onto the flat ground.
35. Torque the lug nuts to 130 ft lbs.
36. Check that all components and fasteners have been properly installed and torqued.
37. Re-read and perform all tasks in the “Before Driving Your Vehicle” section of page 1 of your instructions.

THANK YOU FOR CHOOSING BELLTECH.

You are now a part of the Belltech family and we are eager to catch a glimpse of your newly modified vehicle. Give us a shout out and let us know how much you love our product. Don’t forget, we offer other Belltech related merchandise for you and your vehicle on our website www.belltech.com



belltechsuspension

Belltech Suspension

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If you have any questions, concerns, or warranty related issues regarding your Belltech product, please call or email our experienced customer service specialists.

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Phone: 1-800-445-3767

Email: info@belltech.com

KIT CONTENTS 34319

Coil Spring Kit 34319		
Part number	Description	Qty
5319-001-992	BELLTECH COIL SPRING	2
5320-216	REAR ADJUSTABLE END LINK ASSEMBLY	2
153712-221-99	COIL SPRING SPACER	2
5320-150	ROLL-CENTER CORRECTION BRACKET ASSEMBLY	1
5319-777	HARDWARE KIT	1

Hardware Kit (5319-777)		
Part number	Description	Qty
4924-001-BN	BUMP STOP W/ NUT AND BOLT	2
110635	8MM FLAT WASHER	2
112001	SOCKET HEAD CAP SCREW 8MM-1.25 X 16M	2
112510	FLAT WASHER USS 5/16”	2
5320-070-992	SWAY BAR OFFSET BRACKET	2
110239	WASHER FLAT M10	4
112309	M10 FLANGED BOLT	4
110245	M8 WASHER	2

KIT CONTENTS 45320

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