



# INSTALLATION GUIDE

**PART NUMBER: 16002**

**FRONT COILOVER KIT**

**GM 1500 TRUCK 2WD / 4WD / AWD | 2007-2018**

**GM 1500 SUV 2WD / 4WD / AWD | 2007-2019**

**-1" TO -3" HEIGHT ADJUSTABLE LOWERING**

**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](mailto: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 headlight check and adjustment.

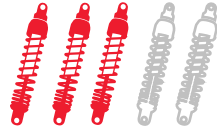
Failure to drive any modified vehicle in a safe manner may result in harm or death.

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

Always wear your seatbelt.



**DIFFICULTY:**



**INSTALLATION TIME:**

2-4 Hours + Alignment

## RECOMMENDED TOOLS:

- Properly rated floor jack
- Support stands
- Wheel chocks
- 1/2" or 3/8" drive wrench
- Metric socket wrench set
- Metric wrench set
- Tape measure
- Marking Pen
- Torque wrench up to 200 ft lbs



### Technician note:

Before making any adjustments to your new Belltech coilover, please be sure to loosen the set screw on the lower spring perch. Failure to do so will damage the threads. After the adjustments are made, you may then tighten the set screw to keep the settings in place.



## 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.

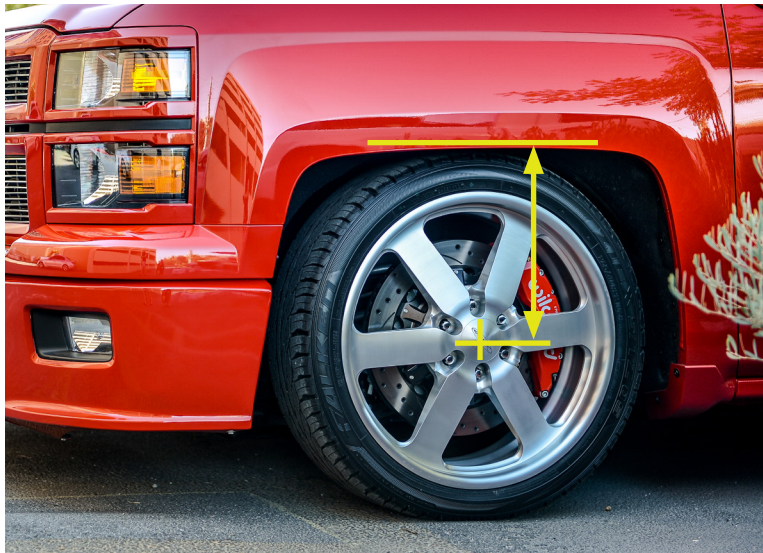
**Before:**

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 rear 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 front of the vehicle off the ground using a properly rated floor jack. Lift the vehicle so the front 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 the 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 front 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 STRUT REMOVAL

9. Remove the 15mm end link nut and bolt to detach the end link assembly. Doing so allows the lower control arms to droop further and ease the strut removal.



10. Locate the three top studs on the front strut assembly and remove all three mounting 18mm nuts.

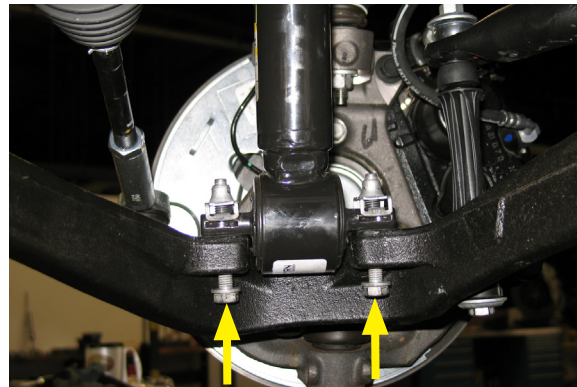


11. Remove the two lower strut mount 15mm bolts.



### Technician reminder:

Support the suspension assembly from the lower control arm. This will prevent damage from the arm drooping out too far. This also allows height control for easier assembly later on.



12. After all the fasteners have been unbolted, push and hold the spindle assembly down to dislodge the bottom strut assembly from the lower control arm then dislodge the strut assembly from the chassis of the vehicle.



# BELLTECH COILOVER HEIGHT SETUP AND ASSEMBLY

13. The coilover is delivered as shown below.



14. Loosen the set screw on the spring perch.



15. Use the provided spanner wrench to turn the bottom spring perch to obtain desired spring perch height. Measure from the top of the perch to the center of the lower mount bushing. Find the appropriate spring perch height by referencing the table below. We do not recommend adjusting outside of the specified height range as the performance of the shock may decrease greatly.

2007-2018 GM 1500 2WD / 4WD	
Drop (Inches)	"A" Measurement Spring Perch Height
1.0"	186mm
1.5"	178mm
2"	170mm
2.5"	162mm
3.0"	154mm



### Technician note:

When lowering your vehicle more than 1", OE camber may not be achievable. After installation a final shop alignment procedure is recommended to minimize tire wear.

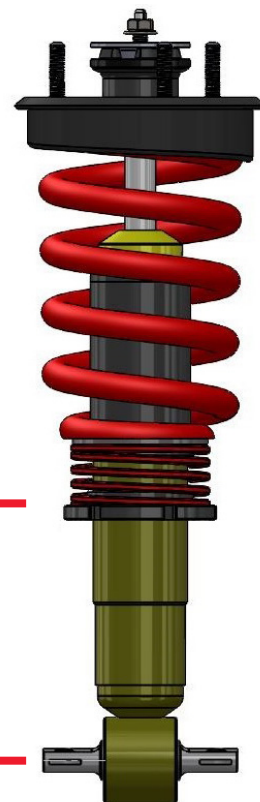


### Technician note:

Your vehicle's exact ride heights may vary due to differences in chassis and trim levels. The perch heights depicted on our tables are a suggested starting point.

It is recommended to preset a higher "A" measurement and adjust down, clockwise, to the desired vehicle height once the coilover is installed.

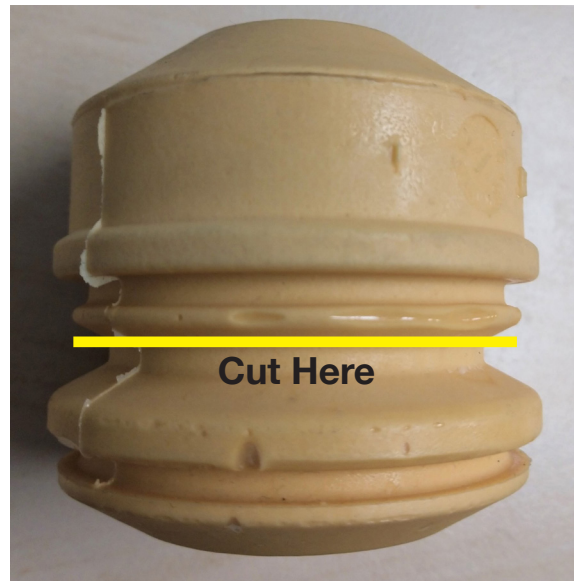
Belltech does not recommend lowering beyond what is advertised in the table above as the performance of the shock may be greatly decreased.



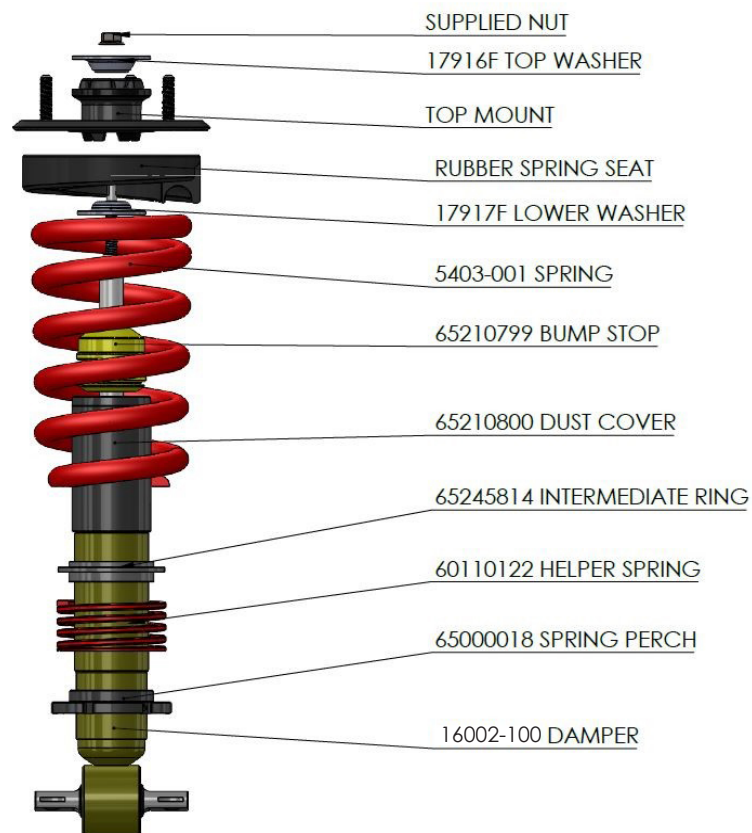
Measure Here

## BELLTECH COILOVER HEIGHT SETUP AND ASSEMBLY CONTINUED

16. Use the full 35mm height bump stop for lowering ranges between 1" to 1.5". For lowering 2" or more, the bump stop must be cut at location shown in the image below. Please remove the lower 15mm portion and use the remaining 20mm bump stop.



17. If the coilover was disassembled to modify the bump stop, please assemble the coilover in the following order.



18. Tighten the set screw. Do not over tighten the set screw. Max torque is 1-2 Nm (1.5 ft lbs.)
19. Torque the supplied Nyloc nut onto the strut. Torque to 37 ft lbs.

# BELLTECH COILOVER REBOUND AND COMPRESSION ADJUSTMENT



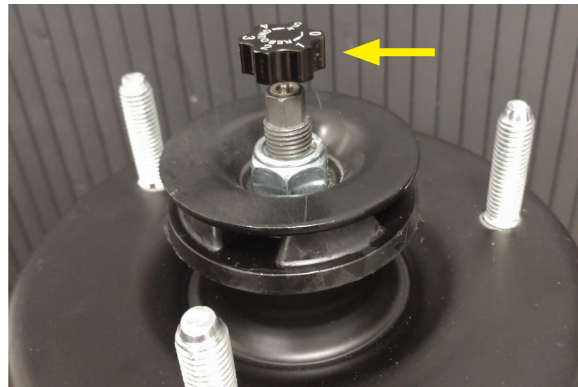
## Technician note:

Tuning the rebound and compression valves will alter the vehicles' driving characteristics. Please adjust all settings safely and in small increments to get familiar with the new handling and performance of the vehicle. The coilover is delivered preset with the base settings in the table below.

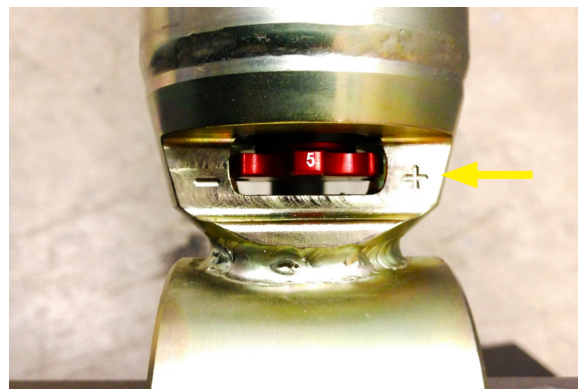
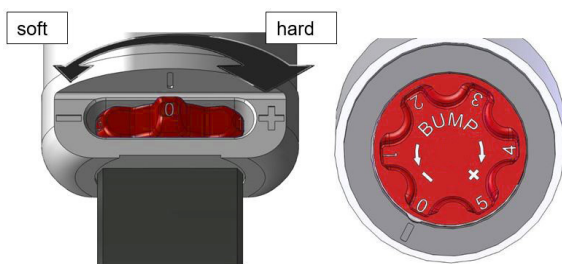
20. All adjustments must be done based on a closed valve (max. hard). The closed valve can be reached by turning the adjustment wheel completely to hard (+) then open to the desired setting.

2007-2018 GM 1500 2WD / 4WD		
Stroke	Setting	Adjustment
Rebound	6 Clicks	Open
Compression	6 Clicks	Open

21. Please use the supplied adjustment knob to adjust the upper rebound valve, turn clockwise to close or counter clockwise to open.



22. Turn the bottom, built in, knob to adjust the compression. Turn clockwise to close or counter clockwise to open.





# BELLTECH COILOVER INSTALLATION

23. Install the new assembly in reverse order of disassembly. Use the OEM nuts and bolts if none were included. Torque to factory specs with the weight of the vehicle on the suspension.



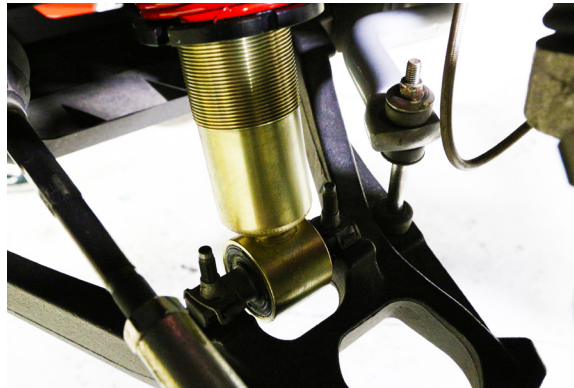
## Technician note:

To help with the installation of your new strut, view and reference the photographs from steps 9 through 12. Remember to torque all components with the weight of the vehicle on the suspension.

24. Place the strut assembly into the chassis and secure it using the three OEM nuts. Torque to 37 ft lbs.



25. Attach the lower strut mount to the lower control arm with the two OEM bolts and torque to 37 ft lbs.



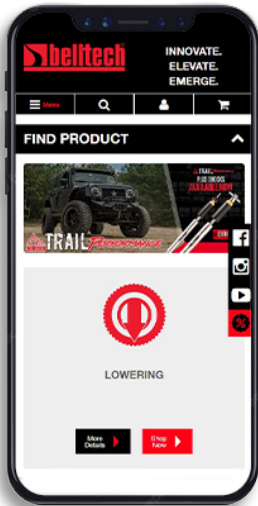
26. Place the end link on the lower control arm and sway bar. Torque the sway bar end link nut to 17 ft lbs. when the vehicle is back on the ground or the suspension is loaded.

# FINALIZING THE INSTALLATION

27. Mount the wheels and tighten the lug nuts.
28. Lift the vehicle and remove the support stands.
29. Carefully lower the vehicle onto the flat ground.
30. Torque the lug nuts to 140 ft lbs.
31. Check that all components and fasteners have been properly installed and torqued.
32. 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](http://www.belltech.com)



belltechsuspension



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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.

### Belltech Customer Support:

Phone: 1-800-445-3767

Email: [info@belltech.com](mailto:info@belltech.com)

# KIT CONTENTS



16002		
Part number	Description	Qty
16001-100	BELLTECH COILOVER	2
68510039	SPANNER WRENCH	1
68525101	BLACK ADJUSTMENT KNOB	1

16002-100		
Part number	Description	Qty
64161043	THREADED DAMPER	1
NUT	NYLOC NUT M12X 1.25	
65210799	BUMP STOP	1
65210800	DUST BOOT	1
65245814	INTERMEDIATE RING	1
60140122	HELPER SPRING	1
5403-001	MAIN SPRING	1
15001265	UPPER SPRING SEAT	1
15002275	TOP MOUNT	1
17916F	TOP MOUNT NUT WASHER	1
17917F	TOP MOUNT ROD WASHER	1
65210803	VENT DISC	1
68320103	SET SCREW M5X12	1
65050018	THREADED SPRING PERCH	1