



INSTALLATION GUIDE

PART NUMBER: 150220

LIFT KIT

GM 1500 SUV 2WD / 4WD | 2021+

+4" LIFTED RIDE HEIGHT

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 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.

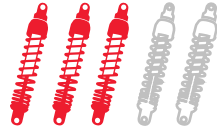
Failure to drive any modified vehicle in a safe manner may result in harm or death.

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

Always wear your seatbelt.



DIFFICULTY:



INSTALLATION TIME:

4-6 Hours + Alignment

RECOMMENDED TOOLS:

- Properly rated floor jack
- Support stands
- Wheel chocks
- Standard and Metric socket wrench set
- Standard and Metric wrench set
- Dead blow hammer
- Tape measure
- Marking Pen
- Safety glasses
- Torque wrench up to 200 ft lbs

SPECIALTY TOOLS:

- Tie-rod end removal tool
- Ball joint removal tool

FITMENT NOTE:

DOES NOT FIT AT4, ADAPTIVE AIR RIDE SUSPENSION, OR DIESEL APPLICATIONS.

TRAIL BOSS AND ELEVATION MODELS WILL ACHIEVE 2" LESS LIFT THAN THE ADVERTISED AMOUNT.

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 owner's 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 oneself or to the vehicle.
7. Lower the vehicle slowly onto the support stands.
8. Remove the front wheels.

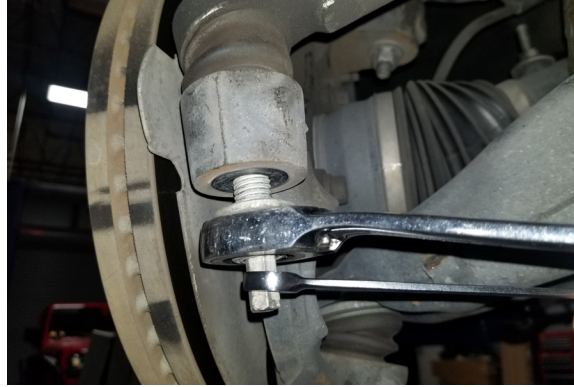


Technician Reminder:

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.

FRONT SUSPENSION REMOVAL

9. Remove the 21mm tie-rod end nut. A 10mm wrench may be needed if the ball joint is spinning. Strike the side of the mount with a dead blow hammer to dislodge the tie rod end.



10. Place a jack underneath the lower control arm to support the assembly and loosen the top and bottom control arm bolts to allow the control arms to move easier.



Technician Reminder:

Mark the settings on the eccentric washers to retain approximate factory alignment during reassembly.

11. Detach the brackets that connect the ABS sensor and brake line on the sides of the spindle and the upper control arm using a 10mm socket.



12. Use an 18mm and 9mm wrench to disconnect the sway bar from the end links.



FRONT SUSPENSION REMOVAL CONTINUED

13. Detach the underbody splash shield and skid plate using a 13mm wrench.



14. Remove the 36mm axle nut. This will prevent the axle from being pulled out of the differential. Tap the locating hole on the front of the axle if it does not move freely.

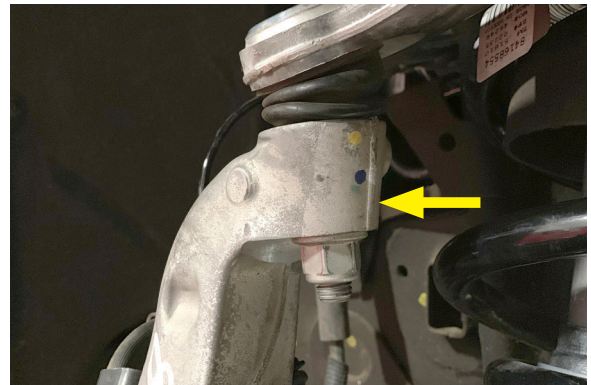


15. Break loose the 18mm upper ball joint nut but do not remove it yet. Strike the ball joint boss with a dead blow hammer to dislodge the upper control arm from the spindle. Allow the spindle to droop as you slide the axle shaft out of the hub.



Technician Reminder:

Be careful, the upper control arm could be under tension. Support the spindle assembly by attaching a strap or cable through the top ball joint boss and a support spot on the chassis to keep the spindle from drooping too far or it swinging while working on the front suspension.



16. The struts must be removed.



Technician Note:

For Trail Performance Coilover Installation: Please refer to the included instructions 15209-888 for the coilover kit. Complete the coilover installation after the new Belltech control arms are installed.

For Trail Performance Strut Installation: Please refer to the included instructions 27019-888 for setting and installing the struts. Complete the strut installation after the new Belltech control arms are installed.

17. Remove the original upper control arms using either a 21mm or a 24mm socket (depending on model) on the bolt heads inside the strut tower; use a 21mm wrench on the outside nuts.

BELLTECH FRONT SUSPENSION INSTALLATION

18. Install the new Belltech 4" Lift control arms using the original hardware. Position each control arm so the ball joint mounting ring is level, then tighten the mounting bolts to 120 ft lbs.



Service Frequency (Regreasing):

- Every TIRE ROTATION for Light-Duty Vehicles
- Every OIL CHANGE for Heavy-Duty Vehicles
- More OFTEN for Severe use vehicles (off-road, commercial, delivery, rideshare, towing, salt, sand, mud, etc.)



Technician Reminder:

Install the coilover or strut assembly per the instructions included before continuing with the next step.

19. Place the CV axle in the hub and ensure it is properly seated in the splines. Fasten with the axle nut and torque after the spindle is installed. First Pass: 133 ft lbs., Second Pass: Reverse 45 degrees, Final Pass: 199 ft lbs.
20. Attach the spindle to the upper ball joint. Torque the upper ball joint nut to 37 ft lbs.
21. Attach the sway bar to the upper end link; torque the nut to 74 ft lbs.
22. Attach the tie-rod end to the spindle, torque the nut to 26 ft lbs. + 93°
23. Attach the ABS line brackets to the spindles and control arms with the original bolts. Torque to 89 *in lb*.
24. Tighten the lower control arm assembly the marked settings on the eccentric washers to retain approximate factory alignment. Please ensure the final torque is applied during alignment.
25. Install the supplied Belltech skid plate in place of the original skid plate and attach the original splash shield. The new skid plate will be installed in the same locations and hardware as the original. Torque the skid plate to 40 ft lbs. and the plastic splash shield to 16 ft lbs.

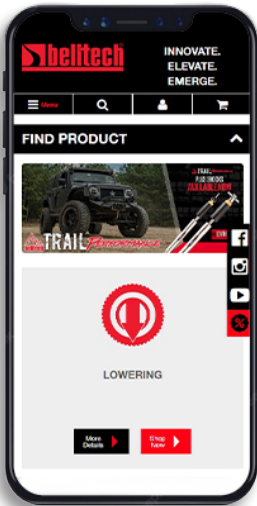


FINALIZING THE INSTALLATION

26. Mount the wheels and tighten the lug nuts.
27. Lift the vehicle and remove the support stands.
28. Carefully lower the vehicle onto the flat ground.
29. Torque the lug nuts to 140 ft lbs.
30. Check that all components and fasteners have been properly installed and torqued.
31. 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



@belltechsuspension



@belltechsuspension

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:

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Email: info@belltech.com

KIT CONTENTS



LK1000		
Part number	Description	Qty
150212-100L	LH CONTROL ARM	1
150212-100R	RH CONTROL ARM	1
150212-108-992	SKID PLATE	1
150212-777	HARDWARE KIT	1

150212-777		
Part number	Description	Qty
110237	M10 X 1.50 - 70MM BOLT	4
110238	M10 X 1.50 NYLOC NUT	4
9999-001	RED THREADLOCKER	1



KW automotive North America, Inc.

300 W. Pontiac Way

Clovis, CA 93612

Phone: +1-559-875-0222

Toll Free: 1-800-445-3767

belltech.com