



INSTALLATION GUIDE

PART NUMBER: LK90000
REAR LIFT BLOCK KIT
MERCEDES SPRINTER AWD / 4WD (VS30) | 2023+

2" TO 3" REAR LIFT

RIDE HEIGHT ADJUSTABLE FOR DIFFERENT LOADS

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 the components listed on the parts list are 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 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, in 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.

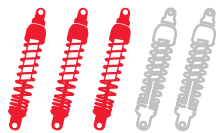
Failure to drive any modified vehicle in a safe manner may result in harm or death.

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

Always wear your seatbelt.



DIFFICULTY:



INSTALLATION TIME: 2 Hours

RECOMMENDED TOOLS:

- Properly rated floor jack
- Jack stands
- Ratcheting socket wrench and socket set
- Hex key set
- Flat head screwdriver or pry tool
- Support stands
- Wheel chocks
- Metric wrench set
- Tape measure
- Safety glasses

SPECIALTY TOOLS:

- Torque wrench up to 200 ft lbs.



FITMENT GUIDE

Recommended Maximum Tire Size:

Rear: 275/70/R17 with 8" MAX back spacing

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 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 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.

REAR SUSPENSION REMOVAL

9. Secure the rear axle with a floor jack and jack stands. This will help stabilize and adjust the height of the axle during installation



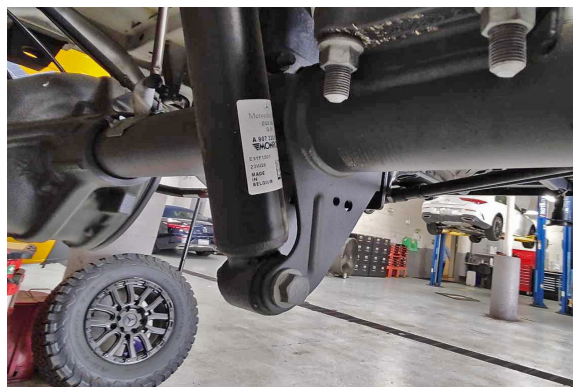
Technician reminder:

The axle must be lowered during installation, use extreme caution. A floor jack is required to be placed at the drive shaft to prevent rotation during installation.

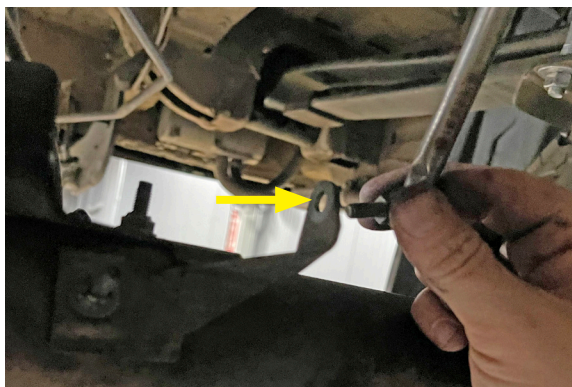
10. Disconnect the rear sway bar end links from both sides of the frame rails.



11. Remove the upper and lower shock mount bolts from the frame rail and axle on both sides of the vehicle. Detach the shocks from the vehicle.



12. If equipped, detach the rear axle height sensor arm from the bracket.

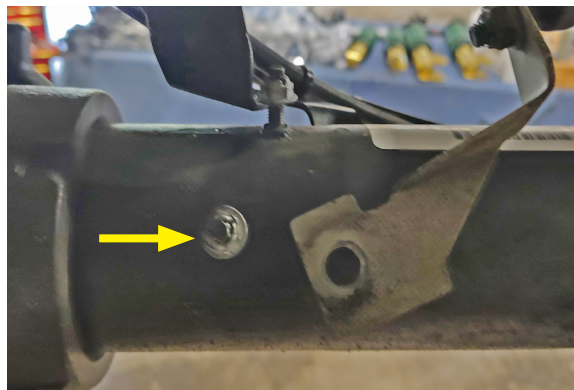


REAR SUSPENSION REMOVAL CONTINUED

13. Remove the nuts to detach the brake line brackets from both sides of the axle.



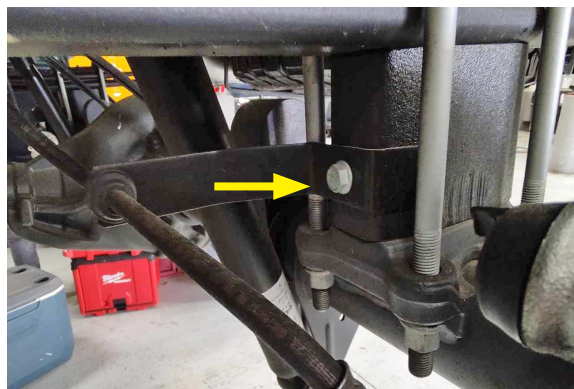
14. If equipped, detach the axle height sensor bracket from the axle.



15. Detach the bump stop block from the axle contact points. The original hardware will be used for installation.



16. Remove the bolts to detach the brake line brackets attached to the lift blocks and to the brake lines running to the rear calipers.



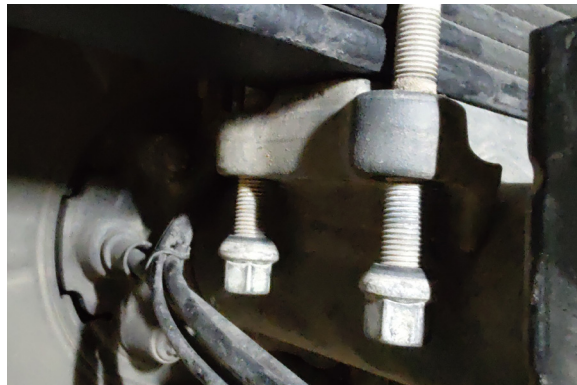
REAR SUSPENSION REMOVAL CONTINUED

17. Remove the original U-bolt nuts and U-bolts from the leaf springs. The original U-bolt nuts will be used for installation.



Technician warning:

When removing the U-bolts, ensure there is a floor jack sustaining the front driveline as the axle will rotate forward and can cause damage to the vehicle or injury to oneself.



18. Use the floor jack to carefully lower the rear axle. There must be enough room between the leaf spring pad and leaf spring to install the new Belltech lift blocks.



REAR BELLTECH LIFT BLOCKS INSTALLATION



Technician note:

Depending on the desired ride height; the Belltech lift blocks kits offer two height settings.

19. The main blocks (155251-221-992) add 2" (50.8mm) of height compared to the original blocks.



20. Secondary blocks (155251-201-992) add an extra 1" (25.4mm) when combined to the main blocks.



21. If both lift blocks are being used; install the secondary Belltech lift block first then install the main Belltech lift block on top.

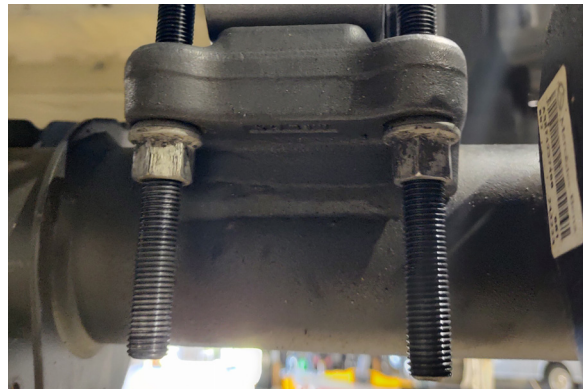


REAR BELLTECH LIFT BLOCKS INSTALLATION CONTINUED

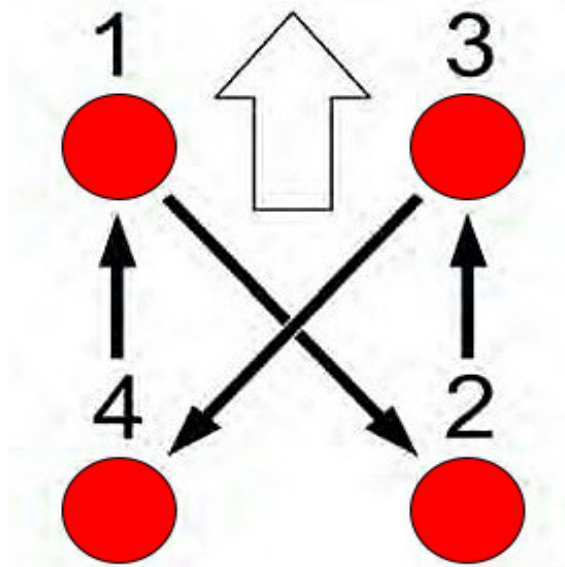
22. Before fastening with the supplied Belltech U-bolts, ensure the original U-bolt centering plate is in place above the leaf spring.



23. Place the supplied round U-bolts found in kit LK90000-777B over the leaf spring and lift block assemblies. Fasten with the original U-bolt nuts.



24. Torque the original U-bolt nuts to factory specs using the proper X-pattern torque technique.



REAR BELLTECH LIFT BLOCKS INSTALLATION CONTINUED

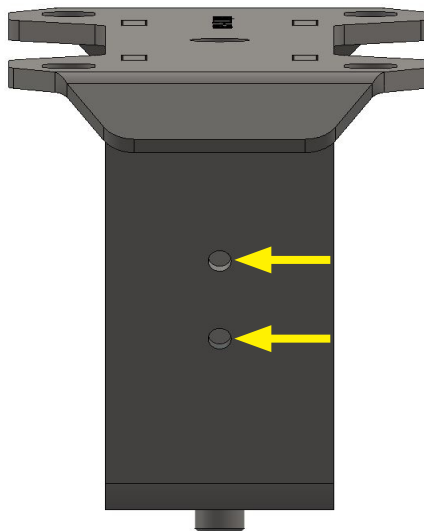
25. Place the anti-axle wrap squared U-bolts over the leaf spring and lift block assemblies. Guide the bolt ends into the lift block brackets.



26. Fasten the squared U-bolts with the supplied oversized 1/2" washer and M12 nut found in hardware kit LK90000-777B. Do not torque yet.

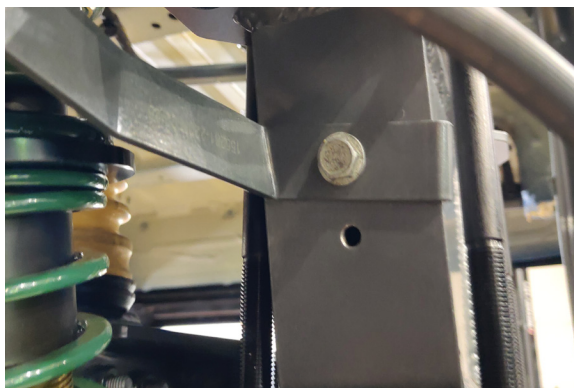


27. To attach the new Belltech brake line brackets, there are two holes on the main Belltech lift block. Depending on lift setup (single block or double block) utilize the hole that provides the least tension on the brake line.



REAR BELLTECH LIFT BLOCKS INSTALLATION CONTINUED

28. Attach the supplied Belltech brake line brackets (155261-220R-992 & 155261-220L-992) to the Belltech main lift blocks with the supplied M8x1.25mm-25mm bolts.



29. Slide the original rubber lines onto the Belltech brake line brackets.



30. The new Belltech bump stops must be assembled and to the desired bump stop engagement for the different loads.

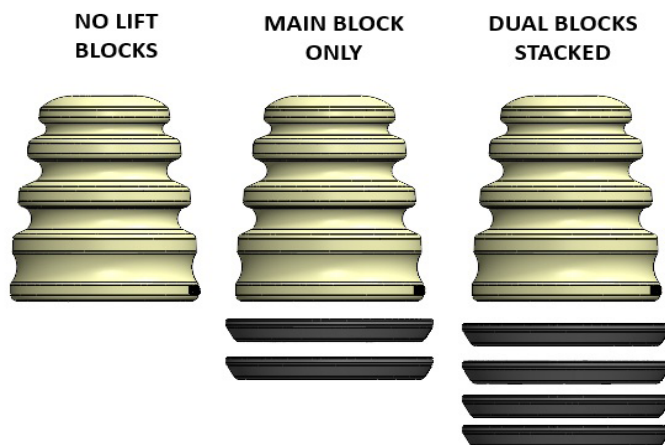


Technician note:

Belltech bump stop 4924-001, Belltech bump stop Spacer 4924-010, and Belltech bump stop extender 155251-203-992 make up the new bump stop assembly. These are supplied in hardware kit LK90000-777A and in the lift block kit.

The kit supplies eight total Belltech bump stop spacers. We suggest starting with two spacers at each bump stop when only the main lift blocks (155251-221-992) are installed.

The diagram below shows the bump stop and spacer options based off the desired lift.



REAR BELLTECH LIFT BLOCKS INSTALLATION CONTINUED

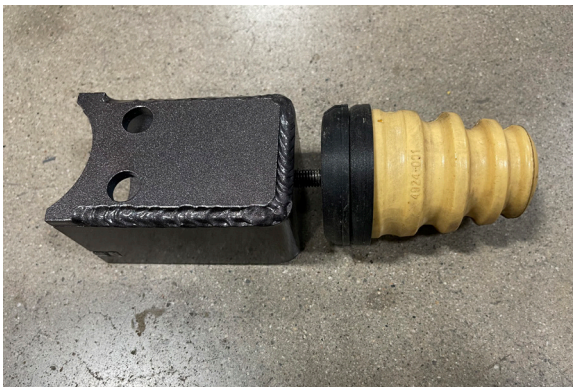
31. Slide the supplied M8x1.25mm-50mm bolts found in kit LK90000-777A through the center of the Belltech bump stop.



32. Place the spacers under each bump stop, slide them onto the bolts.



33. Attach the assembled Belltech bump stop and spacers onto the Belltech bump stop extender using a T-handle Hex key. Fully tighten the bolt.

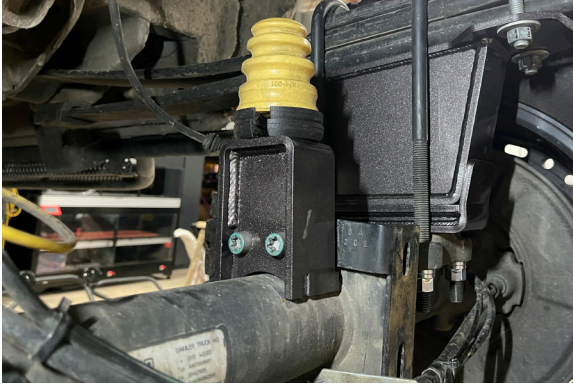


34. Place the original bump stop bolts through the new Belltech bump stop assembly bracket.

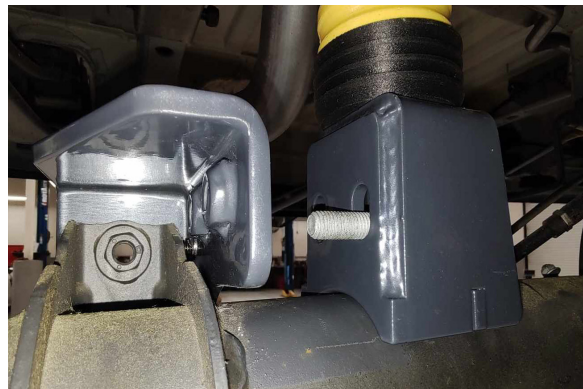


REAR BELLTECH LIFT BLOCKS INSTALLATION CONTINUED

35. Attach the Belltech bump stop assembly onto the original axle bracket.



36. If the lift blocks kit is installed with the Belltech rear coilover kit 15135, attach the Belltech bump stop assembly onto the lower coilover bracket. The original bracket will not be used.



37. Torque the original bump stop bolts to factory specifications.

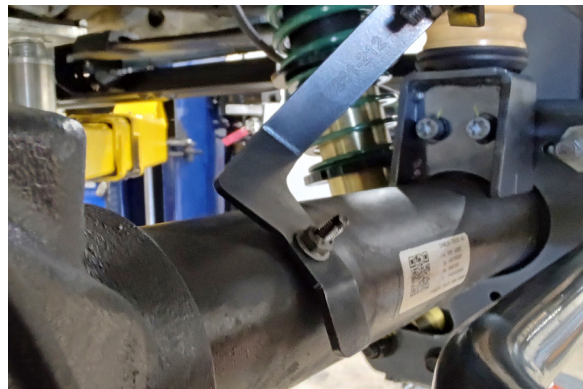
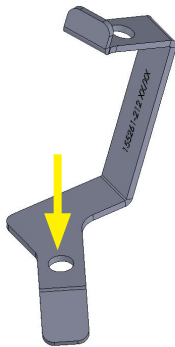


REAR BELLTECH LIFT BLOCKS INSTALLATION CONTINUED

38. Locate the Belltech rear axle brackets and hardware kit LK90002-777C.



39. Attach the RH Belltech axle brake line bracket 155261-212-992 onto the axle with the short side facing downward. Fasten with the original nut.

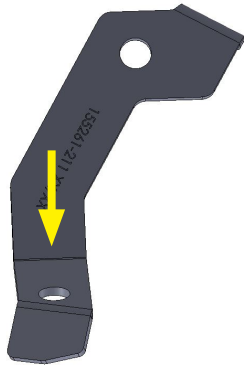


40. Attach the original brake line bracket onto the upper end of the new Belltech bracket using the supplied M8x1.25-20mm bolts, M8 flange nuts, and washers.



REAR BELLTECH LIFT BLOCKS INSTALLATION CONTINUED

41. Attach the LH Belltech axle brake line bracket 155261-211-992 onto the axle with the short side facing downward, toward the rear of the vehicle. Fasten with the original nut.



42. Attach the original brake line bracket onto the upper end of the Belltech bracket using the supplied M8x1.25-20mm bolts, M8 flange nuts, and washers.



REAR BELLTECH LIFT BLOCKS INSTALLATION CONTINUED



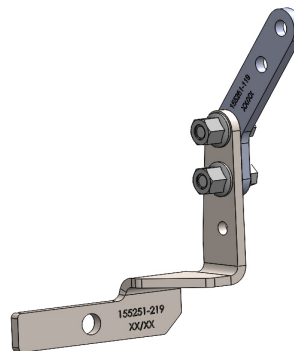
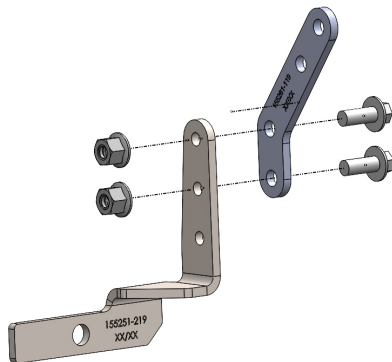
Technician note:

If the vehicle is *not* equipped with electronic height sensors, please skip the next steps.

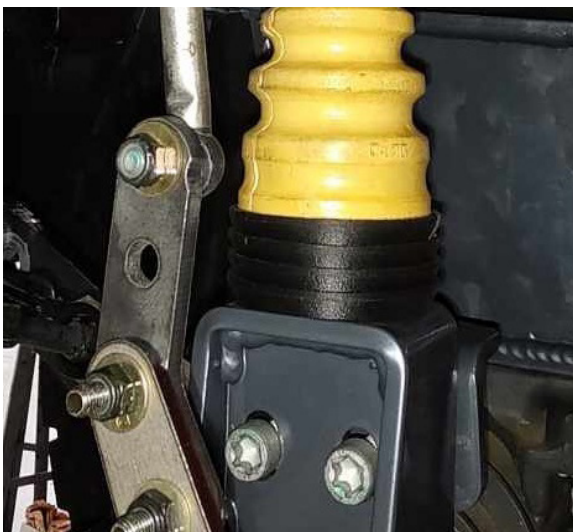
43. If the vehicle is equipped with electronic axle height sensors, attach the rear Belltech height adjuster extension sensor bracket 155251-219-992 onto the axle. Fasten with the original nut.



44. The Belltech height adjuster extension sensor bracket has three settings; depending on cargo weight, and the desired headlight beam angle, this setting can be adjusted. For maximum lift, place the sensor arm in the tallest position
45. Extension for the AWD applications only: Attach the Belltech height adjuster extension 155261-119-992 with the supplied M8x1.25-30mm bolts and M8 flange nuts to the Belltech height sensor bracket 155251-219-992.



46. Fasten the axle height sensor arm to the Belltech bracket or extension with the original nut.

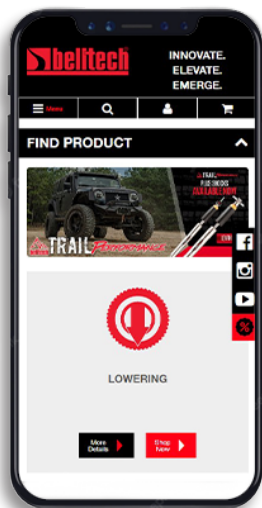


FINALIZING THE INSTALLATION

47. Mount the wheels and tighten the lug nuts.
48. Lift the vehicle and remove the support stands.
49. Carefully lower the vehicle onto the flat ground.
50. Torque the lug nuts to 140 ft lbs.
51. Torque the Belltech anti-axle wrap squared U-bolts to 55 ft lbs.
52. Check that all components and fasteners have been properly installed and torqued.
53. 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



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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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KIT CONTENTS

LK90000		
Part number	Description	Qty
155251-221-992	2" Lift Block	2
155251-201-992	1" Lift Block	2
155251-203-992	Bump Stop Extender	2
155251-219-992	Rear Height Sensor Bracket	1
155251-220L-992	Brake Line Bracket LH	1
155251-220R-992	Brake Line Bracket RH	1
LK90000-777A	Hardware Kit	1
LK90000-777B	Hardware Kit	1
LK90000-777C	Hardware Kit	1
LK90002-777C	Hardware Kit	1

LK90000-777A Hardware Kit		
Part number	Description	Qty
4924-010	Bump Stop Spacer	8
4924-001	Bump Stop	2
110302	M8 x 1.25mm - 50mm Button Head bolt	2

LK90000-777B Hardware Kit		
Part number	Description	Qty
110304	M8 x 1.25mm - 25mm Flanged Button Head bolt	2
6598-007-951	M14-1.5 x 88.90mm x 321.5mm (Round) U-Bolt	4
6599-007-951	M12-1.75 x 87.50mm x 70.35mm (Squared) U-Bolt	4
110638	1/2" Washer	8
110277	M12 x 1.75 Flanged Nut	8

LK90002-777C Hardware Kit		
Part number	Description	Qty
155261-119-992	Height Adjuster Extender	1
155261-211-992	LH - Axle Brake Bracket	1
155261-212-992	RH - Axle Brake Bracket	1
110245	M8 Washer	2
112119	M8 x 1.25 - 30mm Hex Head Bolt	2
112011	M8 x 1.25 - 20mm Hex Head Bolt	2
112147	M8 x 1.25 Flange Nut	4



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

