



INSTALLATION GUIDE

PART NUMBER: 34871
LEVELING KIT
FORD BRONCO | 2021+

1" FRONT HEIGHT LIFT

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 headlight check and adjustment.

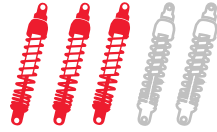
Failure to drive any modified vehicle in a safe manner may result in harm or death.

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

Always wear your seatbelt.



DIFFICULTY:



INSTALLATION TIME:

2-3 Hours + Alignment

RECOMMENDED TOOLS:

- Properly rated floor jack
- Support stands
- Wheel chocks
- Metric socket wrench set
- Metric wrench set
- Tape measure

SPECIALTY TOOLS:

- Torque wrench up to 250 ft lbs.
- Ball joint separator
- Ball peen hammer
- Center punch



FITMENT GUIDE

Minimum wheel specs: 17" diameter, 5" Backspacing

Maximum recommended tire size: 35"x12.5" with 5" wheel backspacing

Not all possible wheel sizes and backspacing can be tested. Cautiously check wheel assembly to spindle, suspension component, and fender/body clearance before tightening lug nuts and rotating the wheel assembly. Belltech is not responsible for any wheel, tire, suspension component, and/or body damage caused by failure to check for interference

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.

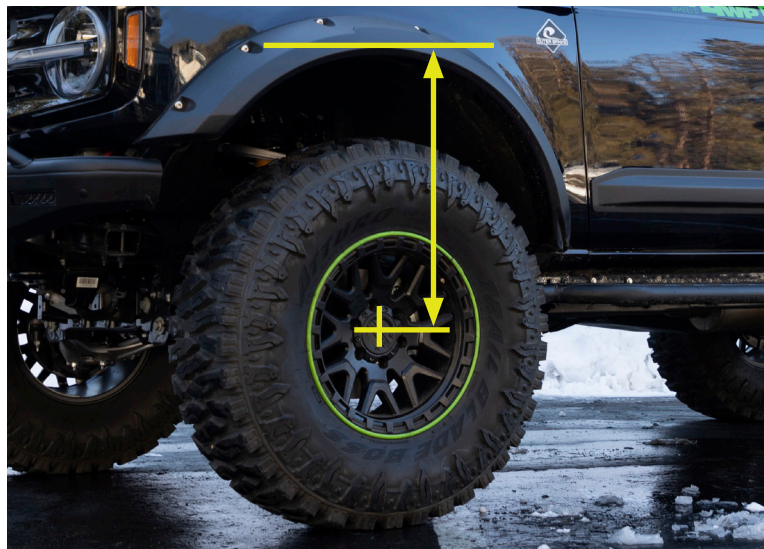
Before:

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 (Please 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.

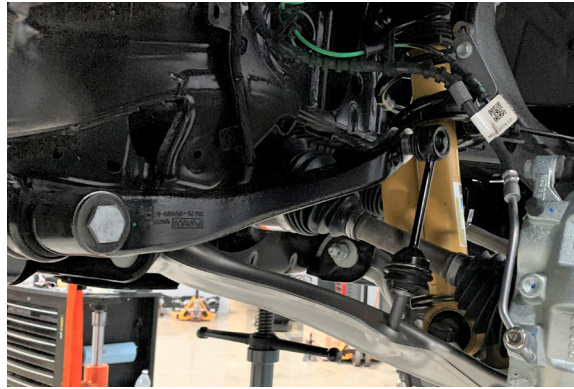


Technician reminder:

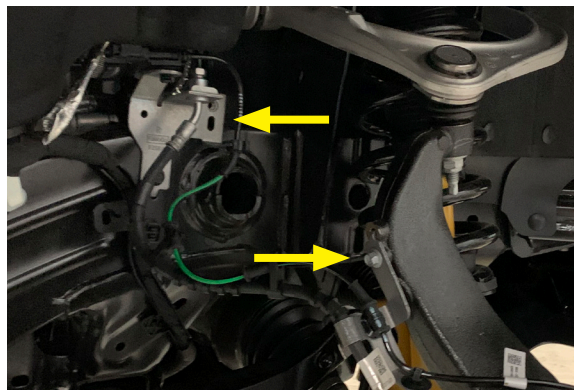
Never work under a vehicle supported only by a jack. It is necessary to place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

OEM STRUT REMOVAL

9. Remove the two lower strut nuts and lower end link nut on the lower control arm. If the end link ball joint turns, use a hex key to prevent the stud from turning while removing the nuts.



10. Using a 10mm wrench, detach the front ABS and brake line bracket from the spindle and remove the bracket from the chassis.

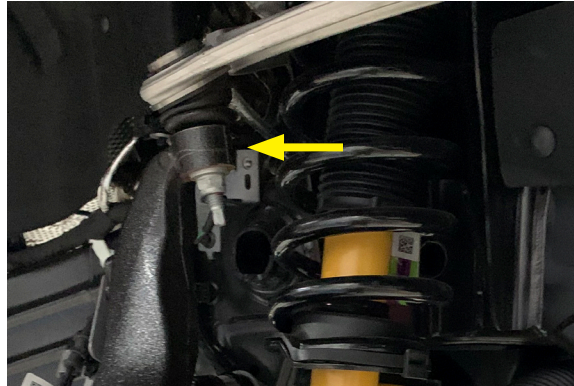


11. Using a 8mm socket, detach the wheel speed sensor from the spindle. Secure the wire assembly away from the working space.
12. Remove the steering tie rod end nut with a 21mm socket from the spindle. Use a tie rod end remover to carefully detach the tie rod end from the spindle. Alternatively you can strike the spindle with a hammer to remove the tie rod end. Do not hit the boot.



OEM STRUT REMOVAL CONTINUED

13. Remove the ball joint nut with a 18mm wrench. Use a ball joint separator tool to detach the upper ball joint from the spindle. Let the spindle rest away from the working area. Alternatively with a hammer, you can strike the ball joint boss on the spindle to remove the ball joint.



14. With a 36mm socket, remove the CV axle nut. Ensure the axle is dislodged from the spindle by striking the center of the axle with a punch and hammer. Ensure the threads are not damaged in the process.



Technician reminder:

Be sure to support the lower control arm and spindle assembly to prevent overextending the CV axle shaft or causing other damage.

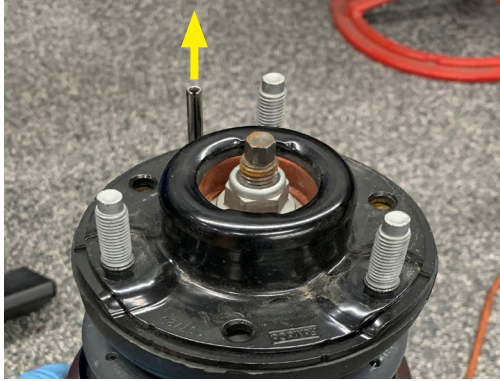


15. With a 15mm wrench, remove the three top mount nuts holding the strut to the chassis. Lower the control arm assembly to gain clearance for the strut to be removed from the vehicle. Next, remove the OEM lower strut bolts to ease the installation later.



LEVEL SPACERS INSTALLATION

16. Place the Belltech upper strut spacer on the strut. Use the alignment pin as a guide to install the spacer in the correct direction



17. Install the strut and spacer assembly into the upper chassis mount by aligning the bolts and pin with the original mounting holes. Fasten but do not torque the strut to the upper chassis mount.



18. Install the lower strut bar pin spacer between the strut and lower control arm. Fasten lower strut using the supplied M12 nuts and bolts. Torque the three upper strut bolts to 41 ft lbs. Torque the two lower strut nuts and bolts 66 ft lbs.



Technician reminder:

DO NOT USE pneumatic tools to torque the strut to the chassis.



19. Reconnect the spindle to the upper ball joint. Ensure the CV axle shaft properly aligns into the hub. Torque the upper ball joint nut to 46 ft lbs.



LEVEL SPACERS INSTALLATION CONTINUED

20. With the CV axle properly seated in the hub, fasten with the axle nut and torque to 221 ft lbs.



21. Reattach the ABS and brake line bracket to the chassis and spindle with the original hardware. Torque to 17 ft lbs.

22. Reattach the ABS wheel speed sensor to the outside of the spindle. Torque to 71 inch lbs.



Technician reminder:

Ensure the spindle area and the sensor are free from dirt and debris to prevent system warning lights and/or malfunction.

23. Reattach the steering tie rod end to the spindle, torque to 46 ft lbs.



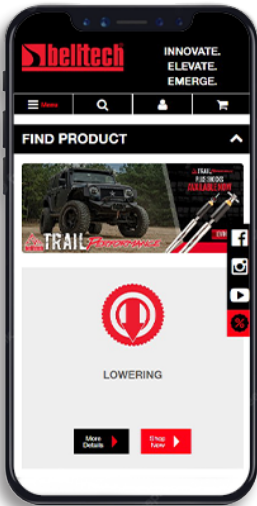
24. Reattach the sway bar end links to the lower control arm, torque to 111 ft lbs.

FINALIZING THE INSTALLATION

25. Mount the wheels and tighten the lug nuts.
26. Lift the vehicle and remove the support stands.
27. Carefully lower the vehicle onto the flat ground.
28. Torque the lug nuts to 100 ft lbs.
29. Check that all components and fasteners have been properly installed and torqued.
30. 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](https://www.facebook.com/belltechsuspension)



[Belltech Suspension](https://www.youtube.com/BelltechSuspension)



[@belltechsuspension](https://www.instagram.com/belltechsuspension)

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



34871		
Part number	Description	Qty
34871B-992	STRUT TOP SPACER	2
34871A-992	STRUT BOTTOM BAR PIN SPACER	2
34871A-777	HARDWARE KIT	2

34871A-777 Hardware Kit		
Part number	Description	Qty
110277	M12 X 1.75 FLANGED NUT	4
110507	M12 X 1.75 - 90MM FLANGED BOLT	4