



INSTALLATION GUIDE

PART NUMBER: 152601BK
LIFT KIT
FORD BRONCO 4WD | 2021+

3" 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 the 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:

2-4 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 350 ft lbs.
- Professional spring compressor
- 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. (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.

FRONT STRUT REMOVAL

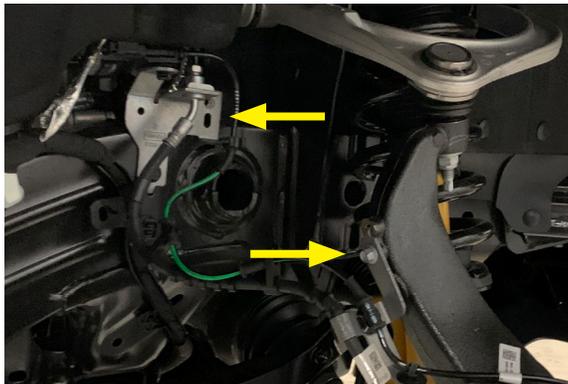
9. Before removing any component, use a marking pen mark the alignment cams to reference the original placement later.



10. Remove the two lower strut 18mm nuts and lower end link 21mm nut on the 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. Also remove the 8mm bolt to detach the wheel speed sensor from the spindle. Secure the wire assembly away from the working space.

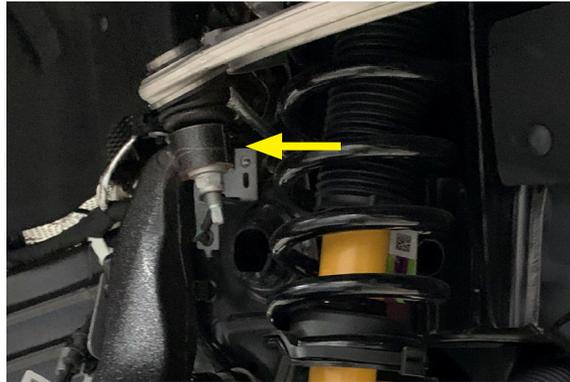


11. Remove the steering tie rod end nut with a 21mm socket from the spindle. Use a tie rod end remover to carefully detach the tie rod end from the spindle. Alternatively you can strike the spindle with a hammer to remove the tie rod end. Do not hit the boot.



FRONT STRUT REMOVAL CONTINUED

12. Remove the upper ball joint nut with a 21mm wrench. Use a ball joint separator tool to detach the 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.



13. 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.



14. 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.



FRONT STRUT DISASSEMBLY

15. Using a proper spring compressor, mount the strut assembly and ensure it is secured before proceeding. To ease the installation of the new strut, mark the position of the top mount in relationship to the upper spring isolator and strut body. Compress the spring until tension is relieved from the strut.



Technician note:

The coil spring is held in place under extreme compression. **Belltech** recommends the use of a heavy-duty spring compressor suitable for truck springs to perform the following steps. If unsure of your spring compressor capabilities, please take your struts to a professional installer. Use caution during the following steps to avoid personal injury and/or damage to the vehicle.



16. Support the strut to prevent it from falling from the fixture as you remove top mount and the strut.

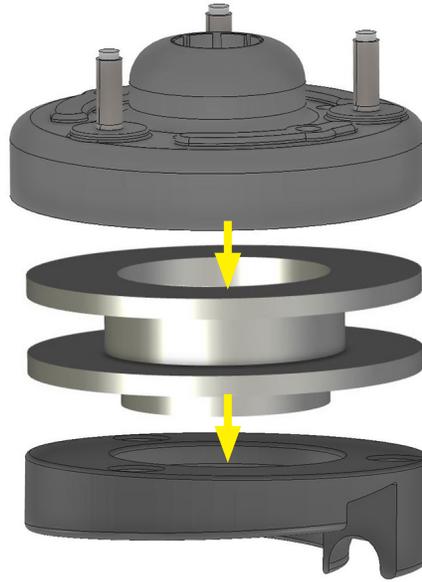


17. Detach the upper spring isolator from the top mount. If needed, use a pry tool or flathead screwdriver.



BELLTECH FRONT SPACER INSTALLATION

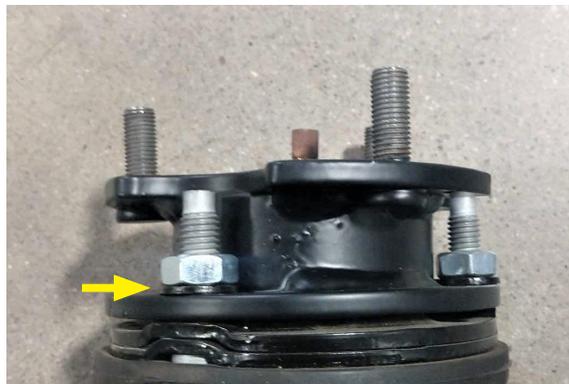
18. Place the preload spacer onto the rubber isolator. The center of the spacer faces downward. Place the top mount above the spacer and assemble onto the coil spring. Use the markings made in step 15 to ensure the spring and isolator are in the original position. Torque the top mount nut to 41 ft lbs.



19. Attach the strut spacer onto the top mount by aligning the bolts and guide pin.



20. Secure the spacer with the split washers and M10x1.5mm nuts. Spin the nuts until snug then tighten using an open ended wrench or thin wall socket.



BELLTECH FRONT SPACER INSTALLATION CONTINUED

21. Install the strut and spacers assembly into the upper chassis mount by aligning the bolts and guide pin with the original mounting holes. Torque the three top mount nuts to 41ft lbs.

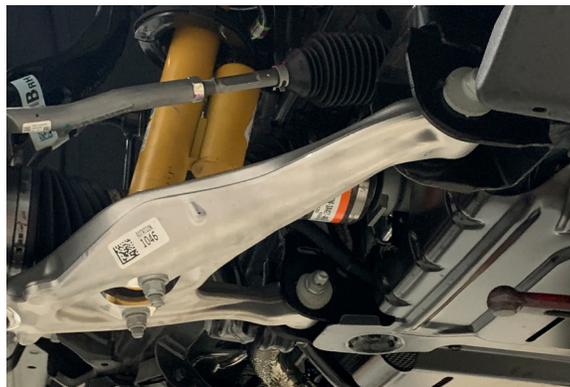


Technician reminder:

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



22. Place the lower strut mount onto the lower control arm. Torque the original lower strut bolts and nuts to 66 ft lbs.



23. Attach 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.



BELLTECH FRONT SPACER INSTALLATION CONTINUED

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



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

26. 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.

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



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

REAR OEM STRUT REMOVAL

29. Remove the rear fender liners using a Philips screw driver. There will be 10 clips and 3 screws holding each liner in place.



30. Support the axle with a jack.

31. Remove lower strut 27mm bolts/nuts.



32. Remove the 15mm upper strut mount bolts.



BELLTECH REAR SPACER INSTALLATION

33. Remove the rear strut assembly from the vehicle.



34. Attach the strut spacer onto the top mount by aligning the bolts and guide pin.



35. Secure the spacer with the split washers and M10x1.5mm nuts. Spin the nuts until snug then tighten using an open ended wrench or thin wall socket.



36. Mount the strut and spacer assembly on the vehicle.

BELLTECH REAR SPACER INSTALLATION CONTINUED

37. Attach the strut with the original upper strut nuts and torque to 41 ft lbs.



38. Attach the lower strut bolt and nut, torque to 350 ft lbs.



39. Remove the jack that was supporting the axle.

40. Replace the rear fender liners using a Philips head screw driver.

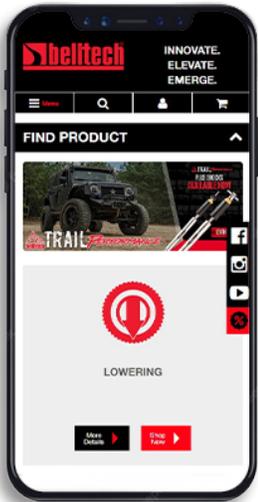


FINALIZING THE INSTALLATION

41. Mount the wheels and tighten the lug nuts.
42. Lift the vehicle and remove the support stands.
43. Carefully lower the vehicle onto the flat ground.
44. Torque the lug nuts to 100 ft lbs.
45. Check that all components and fasteners have been properly installed and torqued.
46. 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



@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:

Phone: 1-800-445-3767

Email: info@belltech.com

KIT CONTENTS



152601BK		
Part number	Description	Qty
34938-100-99	STRUT SPACER	4
152601-120-992	FRONT PRELOAD SPACER	2