



INSTALLATION GUIDE

PART NUMBER: 2353
-2" LOWERING SPINDLE
FORD F150 2WD | 2021+

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 6am 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.

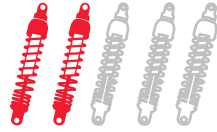
Failure to drive any modified vehicle in a safe manner may result in harm or death.

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

Always wear your seatbelt.



DIFFICULTY:



INSTALLATION TIME:

1-2 Hours + Alignment

RECOMMENDED TOOLS:

- Properly rated floor jack
- Support stands
- Wheel chocks
- Metric socket wrench set
- Metric wrench set
- Tape measure
- Hammer or rubber mallet



FITMENT GUIDE

Must use 20" wheels or larger. It is important to note this kit fits **most** 20" wheels. Please be sure to check for interference.

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. Loosen, but do not remove, the front wheel lug nuts.
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 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.

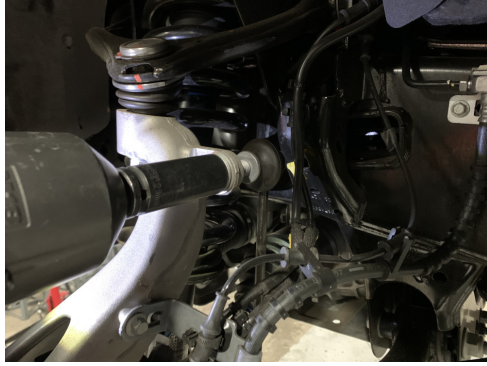


Technician reminder:

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.

SPINDLE REMOVAL

9. Starting on the passenger side of the vehicle, disconnect the end link from the spindle.



10. Remove the steering arm tie rod end.



11. Remove the brake line bracket where it is attached to the spindle.



12. Remove the brake caliper assembly from the spindle. With a metal hook/wire or zip tie attach the caliper to the chassis so it does not dangle and damage the brake line.



13. Remove the rotor.

SPINDLE REMOVAL CONTINUED

14. Remove the dust shield.



15. Remove the ABS sensor from the hub.



16. Loosen, but do not remove the upper and lower control arm ball joint nuts.



17. Use a hammer or rubber mallet to hit the side of the ball joint and release it from the spindle.



SPINDLE REMOVAL CONTINUED

18. Remove the upper ball joint nut and the upper all joint from the spindle.



19. Remove the lower ball joint nut and the lower ball joint from the spindle.

20. Once the spindle has been separated from the ball joints, remove the hub bolts and hub from the spindle.



BELLTECH SPINDLE INSTALLATION

21. Install the OEM hub onto the new Belltech spindle. It is important to make certain the ABS sensor is facing upward.

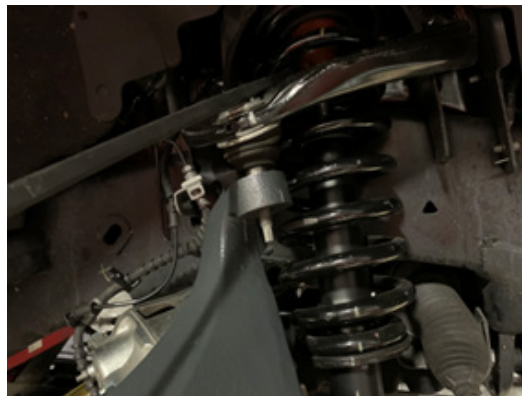


BELLTECH SPINDLE INSTALLATION CONTINUED

22. Install the Belltech spindle onto the bottom ball joint. Secure the bottom nut so it is hand tight.



23. Install the upper ball joint onto the Belltech spindle. Secure the upper ball joint nut so it is hand tight.



24. Tighten the upper and lower ball joints.



25. Install the ABS sensor onto the Belltech spindle.

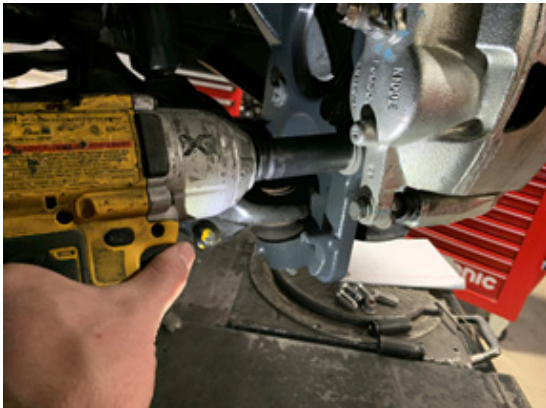


BELLTECH SPINDLE INSTALLATION CONTINUED

26. Install the OEM dust shield and rotor onto the Belltech spindle.



27. Remove the zip tie, wire, or hook that is holding the caliper out of the way. Install the rotor and caliper onto the Belltech spindle using OEM bolts.



28. Install the OEM brake line brackets onto the Belltech spindle.



29. Install and tighten the steering tie rod onto the Belltech spindle.



BELLTECH SPINDLE INSTALLATION CONTINUED

30. Reconnect the end link to the spindle.
31. Repeat steps 9 through 30 for the driver's side portion of the vehicle.

FINALIZING THE INSTALLATION

32. Re-install the wheels and tighten the lug nuts.
33. Lift the vehicle and remove the support stands.
34. Carefully lower the vehicle onto the flat ground.
35. Torque the lug nuts to manufacturer's specifications.
36. Check that all components and fasteners have been properly installed and torqued.
37. Re-read and perform all tasks in the "Before Driving Your Vehicle" section of page 1 of your instructions.



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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!

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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KIT CONTENTS



Part number	Description	Qty
2353-325	LH Machined Spindle	1
2353-425	RH Machined Spindle	1