



INSTALLATION GUIDE

PART NUMBER: 2652
DROP SPINDLE SET
RAM 1500 2WD / 4WD | 2019+

-2" FRONT LOWERED RIDE HEIGHT

****EXCLUDES MODELS EQUIPPED WITH 22" OEM WHEELS AND CLASSIC MODELS****

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:

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
- Torque wrench rated up to 150 ft lbs.



FITMENT GUIDE

Only fits models with 20" OEM wheels. Please be sure to check for interference in the wheel well area and with other steering/suspension components.

FITMENT NOTE:

RAM trucks with OEM 22" wheels require a larger bore steering knuckle due to a larger wheel bearing assembly, as a result this lowering kit will not fit these OEM 22" wheels. Please check for build sales code WPM or WPZ on your RAM to see if this might apply to you

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.

ORIGINAL SPINDLE REMOVAL

9. Loosen the nuts on the tie rod ends. Remove the tie rod nuts from the original spindles.



10. Strike the side of the tie rod mount with a hammer or use a puller to dislodge the tie rod end. Detach the tie rod ends from the spindles.
11. Detach all the mounting points for the brake line and ABS sensor wire from the spindle.
12. Remove the brake caliper mounting bolts located at the back of the spindle.



13. Remove the T-30 Torx bolt to detach the brake rotor from the hub.

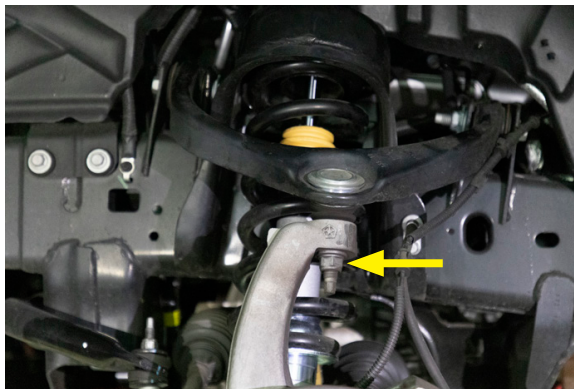


ORIGINAL SPINDLE REMOVAL CONTINUED

14. Remove the ABS sensor from the spindle using a 5mm hex key.



15. Loosen but do not fully remove the upper ball joint nut. Strike the spindle on the designated boss to help separate the upper control arm from the spindle.



16. Loosen but do not remove the lower ball joint nut. Strike the designated area to separate the ball joint from the lower control arm.



17. Detach the spindle assemblies from the vehicle.

BELLTECH SPINDLE INSTALLATION

18. Transfer the hubs and brake backing plates from the original spindles onto the new Belltech spindles. Ensure the backing plates and ABS ports are installed in the correct orientation. Torque the hub and bearing bolts to 37 ft lbs. + 165°.



19. Place a floor jack under the lower control arm to control the height and help with the installation process.
20. Place the Belltech spindle assembly onto the lower ball joint on the lower control arm. Fasten with the original lower ball joint nut. Do not torque yet.

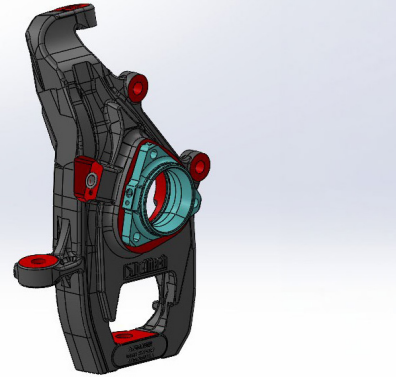


20. Attach the upper control arm ball joint to the spindle. Fasten with the original upper ball joint nut. Do not torque yet.



BELLTECH SPINDLE INSTALLATION CONTINUED

21. Route the ABS line behind the brake backing plate on the Belltech spindle. For vehicles with the ABS sensor mounted in the hub, install the sensor into the hub; for vehicles with the ABS sensor mounted in the spindle, remove the plug from the Belltech spindle and install the ABS sensor into the spindle. Torque the sensor bolt to 62 *in lbs.*

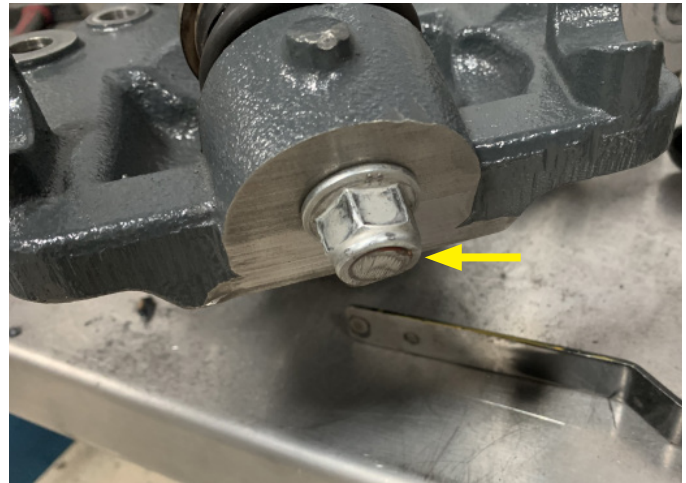


22. Attach the brake rotor onto the hub with the original bolt. Torque to 7 ft lbs.
23. Place the brake caliper in the original position on the Belltech spindle. Fasten with the original mounting bolts from behind the spindle. Torque to 59 ft lbs. + 55°.
24. Attach the mounting points for the brake line and ABS sensor in their original positions on the Belltech spindle.
25. Attach the tie rod ends to the Belltech spindles using the original nuts. Torque to 41 ft lbs. + 180°.
26. Torque the upper ball joint nuts to 26 ft lbs. + 180°. Torque the lower ball joint nuts to 38 ft lbs. + 195°.



Technician note:

Confirm clearance between the Belltech spindle, lower ball joint stud, and the wheel. If extra wheel clearance is needed, remove the original lower ball joint nuts and fasten with the supplied half nuts in hardware kit 2652-777. After the half nuts are installed, trim remaining threads down to the half nut as shown in the image.

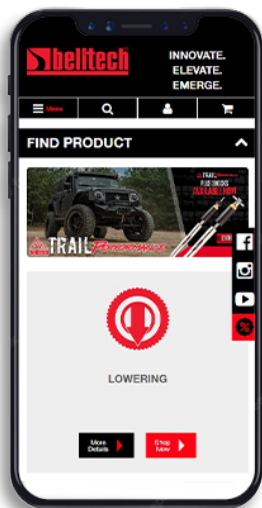


FINALIZING THE INSTALLATION

27. Mount the wheels and tighten the lug nuts.
28. Lift the vehicle and remove the support stands.
29. Carefully lower the vehicle onto the flat ground.
30. Torque the lug nuts to 130 ft lbs.
31. Check that all components and fasteners have been properly installed and torqued.
32. 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:

Phone: 1-800-445-3767

Email: info@belltech.com

KIT CONTENTS



2652		
Part number	Description	Qty
2652-425-982	RH MACHINED SPINDLE	1
2652-325-982	LH MACHINED SPINDLE	1
2652-777	HARDWARE KIT	1

2652-777		
Part number	Description	Qty
115012	HALF NUT	2



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

