



INSTALLATION INSTRUCTIONS

28020

6"-8" LIFTING STRUT

300 W. Pontiac Way Clovis, CA 93612 Toll free: 1-800-445-3767 Web: www.belltech.com

19+ RAM 1500 2WD/4WD

****Excludes classic models****

Thank you for being selective enough to choose our high quality BELLTECH PRODUCT. We have spent many hours developing our line of products so that you will receive maximum performance with minimum difficulty during installation.

Note: Confirm that all of the hardware listed in the parts list is in the kit. **Do not** begin installation if any part is missing. Read the instructions thoroughly before beginning this installation.

Warning: DO NOT work under a vehicle supported by only a jack. Place support stands securely under the vehicle in the manufacturer's specified locations unless otherwise instructed.

Warning: DO NOT drive vehicle until all work has been completed and checked. Torque all hardware to specified values.

Reminder: Proper use of safety equipment and eye/face/hand protection is absolutely necessary when using these tools to perform procedures!

Note: It is very helpful to have an assistant available during installation.

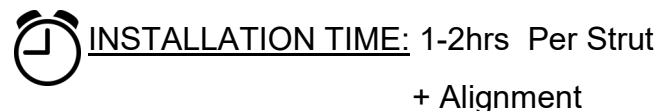
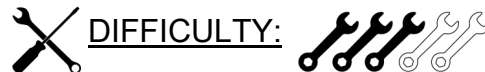
Note: Please refer to component and hardware list before beginning installation to insure all necessary pieces have been supplied and packaged.

Exceptional Customer Experience Guarantee:

STOP! We strive for an exceptional experience for all of our valued customers. If, for any reason, you need assistance with your Belltech products, please do not return the products to the store or website you purchased from. Please call our dedicated experts at (1-800-445-3767) from 7am to 5pm PST.

RECOMMENDED TOOLS:

- Properly rated floor jack and support stands
- Wheel chocks
- Torque wrench up to 200 ft/lbs
- Metric & Standard socket wrench set
- Metric & Standard wrench set
- Tape measure
- Dead blow hammer
- Marking pen



KIT CONTENTS

| PART #: | DESCRIPTION: | QTY: |
|------------------|----------------------|-------------|
| 28020-100 | LIFTING STRUT | 1 |
| 25003-016 | 16mm SPACER | 2 |
| 25003-008 | 8mm SPACER | 2 |
| 4923-001 | BUMP STOP | 1 |
| 4935-001 | 15mm PACKER | 3 |
| 65210031 | VENT DISC | 1 |
| 26015-002 | SPRING PERCH | 1 |
| NUT | M12X 1.25 | 1 |



KIT INSTALLATION:

Park the vehicle on a smooth, level concrete or seasoned asphalt surface and activate the parking brake. Block the REAR wheels of the vehicle with appropriate wheel chocks; making sure the vehicle's transmission is in 1st gear (manual) or "Park" (automatic).

Using a properly rated floor jack, lift the FRONT wheels of the vehicle off the ground. Place support stands rated for the vehicle's weight and in the factory specified locations. Refer to the vehicle Owner's Manual. Prior to lowering the vehicle onto the stands, make sure the supports will securely contact the chassis.

It is very important that the vehicle is properly supported during this installation to prevent personal injury and chassis damage. Make sure that the support stands are properly placed prior to performing the following procedures. We **DO NOT RECOMMEND** using wheel ramps while performing this installation.

REMOVE OEM STRUT:

- a. Undo the Lug nuts using a 22mm socket and remove wheels.
- b. Loosen the jam nuts on the tie rods using a 21mm. Remove the tie-rod nuts from spindles. **(PHOTO 1)** Strike the side of the knuckle with a dead blow hammer to dislodge the tie rod end. Remove tie rod from the knuckle.
- c. Remove all mounting points for the brake line and ABS sensor wire from the upper control arm and spindle.
- d. Undo the brake caliper mounting bolts located at the back of the spindle. Hang the calipers on the frame to prevent stretching of the lines using large zip ties or hangers. **(PHOTO 2)**
- e. Loosen but do not fully remove the upper ball joint nut using a 21mm. Strike the spindle on the designated bosses to help separate the upper control arm from the spindle. **(PHOTO 3)**
- f. Remove the bottom OEM strut fork bolt using a 21mm and 24mm. **(PHOTO 4)**
- g. Locate and remove the three upper strut nuts using a 15mm wrench. **(PHOTO 5)**
- h. Once all nuts have been un-bolted, hold the spindle assembly while slightly pushing down, dislodging the bottom spring/strut assembly from its bottom mounts dislodging the entire spring/strut assembly from its perch.

NOTE: BE CAREFUL NOT TO DAMAGE OR OVER EXTEND THE BRAKE HOSES WHEN REMOVING THE STRUT ASSEMBLY.



STRUT DISASSEMBLY:

The installation pictures shown have been done at a professional installation shop. **It is important to use a spring compressor to compress the spring before removing the top mount bolt or serious injury may occur.**

- a. Mount the entire spring/strut assembly in the fixture. **(Photo 6)**
To ease the installation of the new strut, mark the position of the top mount in relationship to upper spring isolator.
- b. Compress the spring until tension is relieved from the top mount.
- c. Remove the top mount nut and top spring perch.
- d. Remove the strut from the fixture.
- e. Remove the OEM lower coil spring isolator (if applicable) and bump stop from the OEM strut.



STRUT ASSEMBLY:

THE FOLLOWING SET UP CHART IS FOR THE BELLTECH KIT 153712. If you are utilizing this strut with a lift kit other than the one listed, use the provided ring chart only as a reference.

NOTE: If a half inch lift increment height is desired, please add one 25003-008 ring or additional 8mm equivalent to the shock from the next lowest increment from the table below.

NOTE: If your 28020 strut comes with an extra 10mm ring, place it on the strut housing first, then use the following chart to set your desired ride height.

RAM 1500 NON Classic

| ITEM NO | PART NO. | DESCRIPTION | OEM 0" | LIFTING 6" | LIFTING 7" | LIFTING 8" |
|---------|-----------|-------------------|--------|------------|------------|------------|
| 1 | 25003-008 | 8mm(.315") RING | 0 | 2 | 2 | 2 |
| 2 | 25003-016 | 16mm(.63") RING | 0 | 0 | 1 | 2 |
| 3 | 4935-001 | 15mm(.59") PACKER | 0 | 0 | 1 | 2 |

Strut Assembly Continued

- a. Install your required spacers for the desired height onto the BELLTECH shock. See table / figure.
- b. Install BELLTECH spring perch onto strut once the desired combination of rings are installed.
- c. Insert the BELLTECH vent disc and packer (if applicable).

Note: Belltech uses “Packers” to maintain the correct bump stop engagement at various lift ranges. Using the appropriate packer will prevent excessive body roll. Please place packer on top of the vent disk, channel side down as shown in Photo 7.

- d. Insert the BELLTECH strut into the OEM spring and install the BELLTECH bump stop onto the strut
- e. Complete the assembly using the OEM lower coil spring isolator, top mount and supplied nut.

INSTALL THE FRONT SHOCK/SPRING

Refer to the lift kit instructions regarding order of operations and component installation processes.

Re-install the new assembly in reverse order of disassembly. You can use the supplied and nuts for the bottom of the new BELLTECH strut or the OEM bolts were not provided to you.

FINALIZING THE INSTALLATION

- a. All hardware being fastened to the vehicle's original fastening points should be torqued to the factory specifications (Reference Service Manual for Specifications). To prevent chassis damage, never over-torque the hardware.
- b. Check that all components and fasteners have been properly installed, tightened and torqued.
- c. Check brake hoses and other components for any possible interference.
- d. Lift the vehicle and remove the support stands. Carefully lower the vehicle to the ground.
- e. Immediately test-drive the vehicle in a remote location so that you can become accustomed to the revised driving characteristics and handling. Be aware that the vehicle will handle substantially different now that it has been modified.
- f. Installation is complete. Check all of the hardware and re-torque at intervals for the first 10, 100, 1000 miles.

