



INSTALLATION INSTRUCTIONS

28019
6" LIFTING STRUT

19+ GM1500 2WD/4WD

Thank you for purchasing 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 this 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 the vehicle until all work has been completed and checked. Torque all hardware to values specified.

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 the installation process.

Note: We **DO NOT RECOMMEND** using wheel ramps while performing this installation.

RECOMMENDED TOOLS:

- Blocks and Wheel chocks
- Ratcheting Socket Wrench
- Safety Glasses
- Floor jack and Jack Stands
- Torque Wrench 10-75 lb ft. range

KIT INSTALLATION

- 1a.** Open the hardware kit and remove all the contents. Refer to the parts list (Page 6) to verify that all parts are present.
- 1b.** 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).
- 1c.** 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, in the factory specified locations. Please refer to the vehicle Owner's Manual if unsure. Prior to lowering the vehicle onto the stands, make sure the supports will securely contact the chassis.
- 1d.** 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.

REMOVING THE O.E.M. FRONT STRUT

- 2a. Locate the top three mount bolts of the front spring/strut assembly.
- 2b. Remove all three mounting nuts that attaches the top of the spring/strut assembly to the chassis (**Photo 1**)
- 2c. Remove the two bottom mounting nuts of the spring/strut assembly (**Photo 2**)



- 2d. Remove the mount nuts from the end links. Remove the end links completely. This allows the lower control arms to droop further, to ease removal of strut. (**Photo 3**)
- 2e. Once all mounts 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 (**Photo 4**)



Be careful not to damage or over extend the brake hoses

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.**

- 3a. Mount the entire spring/strut assembly in the fixture. **(Photo 5)** To ease the installation of the new strut, mark a white line down the center of the assembly for alignment purposes only showing the front of the top mount.
- 3b. Compress the spring until tension is relived from the top mount.
- 3c. Remove the top mount nut and top spring perch.
- 3d. Remove the spring and strut from the fixture.
- 3e. Remove the OEM spacer ring (if applicable) and bump stop from the OEM strut.



STRUT ASSEMBLY

THE FOLLOWING SET UP CHART IS FOR THE BELLTECH KITS 150212. If you are utilizing this strut with a lift kit other than the one listed above, use the provided ring chart as reference.

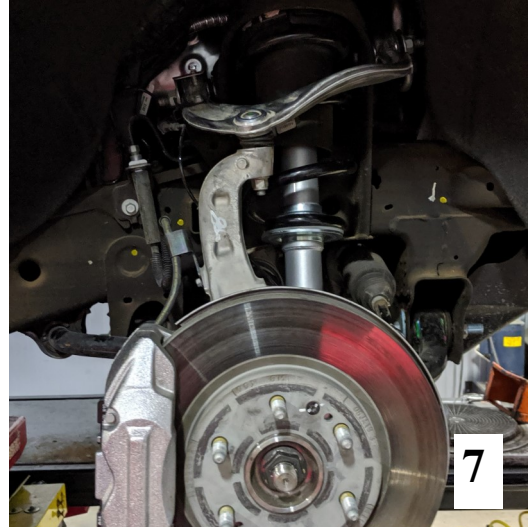
- 4a. Install your required spacers for the desired height onto the BELLTECH shock. See table below.

NOTE: If a half inch increment height, between 3.5" LIFTING and 4.0"(LIFT), is desired, please add one 25003-008 ring to the shock from the next lowest increment from the table above. For example, if a 3 inch lift is desired, using the BELLTECH kits 150200 or 150201, remove the rings on the shock.

2WD APPLICATON					
ITEM NO	PART NO.	DESCRIPTION	LIFTING 5.0"	LIFTING 6.0"	LIFTING 7.0"
1	25003-075	7.5mm(.293") RING	1	1	1
2	25003-015	15mm(.59") RING	0	1	2
3	4935-001	15mm(.59") PACKER	0	1	0
4	4936-001	25mm((.98") PACKER	0	0	1

4WD APPLICATON					
ITEM NO	PART NO.	DESCRIPTION	LIFTING 5.0"	LIFTING 6.0"	LIFTING 7.0"
1	25003-075	7.5mm(.293") RING	0	0	0
2	25003-015	15mm(.59") RING	0	1	2
3	4935-001	15mm(.59") PACKER	0	1	0
4	4936-001	25mm((.98") PACKER	0	0	1

- 4b. Install BELLTECH spring perch onto strut once the desired combination of rings are installed.
- 4c. Insert the BELLTECH vent disc, packer (if applicable).
- 4d. Insert the BELLTECH strut into the OEM spring and install the BELLTECH bump stop onto the strut
- 4e. Complete the assembly using the OEM spring isolator, top mount and supplied nut.



INSTALL THE FRONT SHOCK/SPRING

- 5a. Re-install on the new assembly in reverse order of disassembly. You will use the supplied bolts and nuts for the bottom of the new BELLTECH strut.

Note it may be necessary to unbolt the upper control arm from the spindle to fit the strut into the mounted position. If this is necessary, remove the upper ball joint nut from the spindle and disconnect the ball joint from the spindle. Install the Belltech strut. Reinstall the upper ball joint to the spindle and tighten all the fasteners to factory specifications.

- 5b. Re-install the sway bar end links to 18ft-lbs.

FINALIZING THE INSTALLATION

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.

- 7a.** Check that all components and fasteners have been properly installed, tightened and torqued.
- 7b.** Check brake hoses and other components for any possible interference.
- 7c.** Lift the vehicle and remove the support stands. Carefully lower the vehicle to the ground.
- 7d.** 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.
- 7e.** Installation is complete. Check all of the hardware and re-torque at intervals for the first 10, 100, 1000 miles.

PARTS LIST

PART #	DESCRIPTION	QTY
28019	SHOCK	1
25003-075	7.5mm SPACER	2
25003-015	15mm SPACER	2
4926-001	BELLTECH BUMP STOP	1
65210031	VENT DISC	1
4935-001	15mm PACKER	1
4936-001	25mm PACKER	1
25003-002	BELLTECH SPRING PERCH	1