



25011

BELLTECH LIFTING/LOWERING STRUT, +2" to -2" 02'-09' GMC ENVOY & CHEVROLET TRAILBLAZER

THANK YOU for being selective enough to choose a 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.

Note: **On some vehicles when using the full 2" drop it might not be possible to get the vehicle into OE camber specifications.**

RECOMMENDED TOOLS:

- Blocks and Wheel chocks
- Socket & Wrench Sets
- Safety Glasses
- Floor jack and Jack Stands
- Torque Wrench
- Spring Compressor

1. PREPERATION

1a. Open the hardware kit and remove all of the contents. Refer to the parts list on page 4 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 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.

CAUTION! 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.

1d. Remove front wheels.

2. REMOVING THE ORIGINAL FRONT STRUT

2a. Remove all the mounting nuts that attaches the top of the strut assembly to the chassis.

2c. Remove the bottom mounting bolt of the strut yoke.
(Photo 1)

2d. Slide the strut yoke off its retaining pin and remove the strut assembly. (Photo 2)

2e. To help the installation of the new strut, mark a white line down the center of the strut assembly for alignment purposes to match the alignment of the top mount and strut yoke during reassembly.

2f. Loosen the strut yoke pinch bolt and nut. Spread the strut yoke at the pinch belt using a flat bladed tool and remove the strut yoke from the strut.

CAUTION! Coil springs are under tension. Springs under tension store a great amount of energy. Use caution during the following steps to avoid personal injury and/or damage to vehicle. Be careful not to damage the brake hoses.

3. DISASSEMBLY OF THE ORIGINAL STRUT

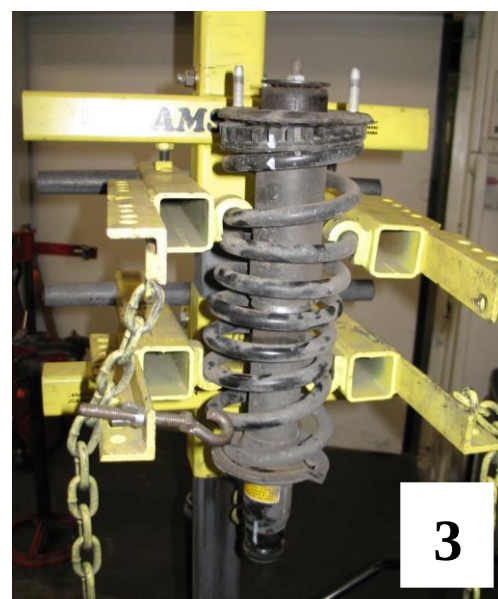
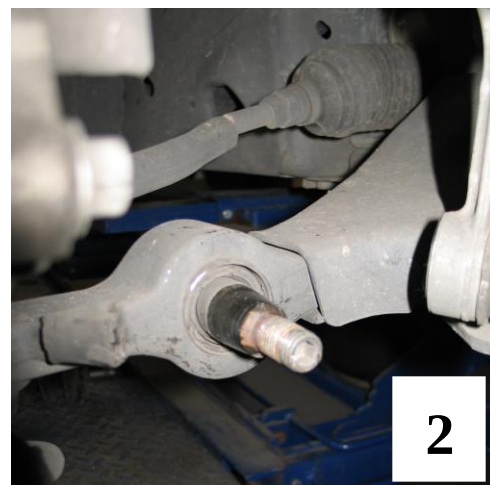
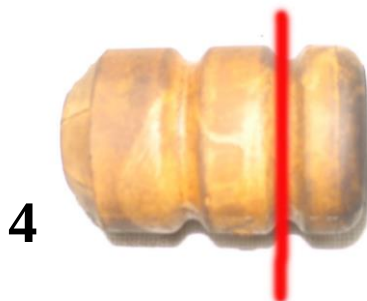
It is important to use a spring compressor to compress the spring before removing the top mount bolt or serious injury may occur.

3a. Mount the strut assembly in a spring compressor. Compress the spring. (Photo 3)

3b. Remove the top mount.

3c. Remove the top spring perch dust cover and bump stop. Remove the original strut.

3d. Cut the OEM bump stop to a height of 1.2 inches, along the line in Photo 4.



4. ASSEMBLY OF BELLTECH STRUT

4a. Select the ring spacers for the desired height onto the BELLTECH shock using the chart below. It may be necessary to remove the vent cap on the Belltech strut before changing the spacers. (Photo 5)

	NUMBER OF RINGS TO PUT ON STRUT								
	2" Lowering	1.5" Lowering	1" Lowering	0.5" Lowering	0" OEM Height	0.5" Lifting	1" Lifting	1.5" Lifting	2" Lifting
16mm (0.63") Ring	0	0	1	1	2	2	3	3	3
8mm (0.315") Ring	0	1	0	1	0	1	0	1	2

4b. Assemble the new BELLTECH strut using the supplied vent disc, OEM spring, supplied spring seat, desired spacer rings, cut OEM bump stop and the OEM top mount that includes the boot and the spring isolator. Insert the BELLTECH strut into the strut yoke and line it up the marks made in step 2e. Tighten the pinch bolt to OEM recommended torque specifications. (Photo 6)

5. REINSTALL THE FRONT STRUT

5a. Reinstall the new assembly in the same way the O.E.M. strut was removed, in reverse order. Follow Step 2. You will re-use the OEM nuts to install the new BELLTECH strut.

5b. Torque all mounting hardware to correct specifications.

6. 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.

6a. Check that all components and fasteners have been properly installed, tightened and torqued.

6b. Check brake hoses and other components for any possible interference.

6c. Reinstall wheels. Torque the lugs nuts to correct specification.



6d. Lift the vehicle and remove the support stands. Carefully lower the vehicle to the ground.

6e. 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.

6f. Installation is complete. Check all of the hardware and re-torque at intervals for the first 10, 100, 1000 miles.



PART NUMBER	DESCRIPTION	QTY
25011-001	BELLTECH Strut	1
25003-016	16mm Spacer Ring	3
25003-008	8mm Spacer Ring	2
25011-002	Vent Cap	1
25012-002	BELLTECH Spring Perch	1