INSTALLATION INSTRUCTIONS

6654

REAR SHOCK EXTENSIONS

1999-UP CHEVROLET SILVERADO/GMC SIERRA 1500

Congratulations! You were 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.

This kit has been specifically engineered for the 1999 to current GMT 800 series ½ Ton trucks. Please note that this ***Belltech*** rear shock extension kit must be used in conjunction with other Belltech lowering components. Please consult your ***Belltech Application Guide*** for more information. We **DO NOT RECOMMEND** using this kit on vehicles where other aftermarket suspension components have been previously installed.

IMPORTANT NOTE:
If the vehicle's suspension has been modified from the original stock position, please return it to its exact original configuration prior to installing this kit.

In order to properly lower your truck, we recommend using only high quality ***Belltech*** lowering coil springs, spindle kits, flip kits, hanger and shackle kits, and **Nitro-Drop®** or **Nitro-Active®** shock absorbers. Note that shorter shocks **are required following installation** of many of our kits.

We recommend that you install ***Belltech*** front and rear Anti-Sway Bars to further improve your vehicle's handling and performance.

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. If any part is missing, contact your nearest BellTech distributor for support.

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 otherwise instructed.

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

IMPORTANT NOTE:
In order to properly install the REAR SHOCK EXTENSIONS, we find it important to follow, in sequential order, the step-by-step procedures listed on the following pages. BellTech R & D Techs have simplified the step-by-step installation to minimize any difficulties that may arise during installation.

! It is very helpful to have an assistant available while performing this installation.

SAFETY REMINDER: PROPER USE OF SAFETY EQUIPMENT AND EYE/FACE/HAND PROTECTION IS ABSOLUTELY NECESSARY WHEN USING THESE TOOLS TO PERFORM THE FOLLOWING PROCEDURES!

RECOMMENDED TOOLS:

- Properly rated floor jack and two(2) support stands
- Wheel chocks
- ½" drive ratchet wrench
- Metric socket, 18mm
- Metric box wrench 18mm
- ½" drive torque wrench
- Cleaning solvent and rag
- Safety Glasses

KIT INSTALLATION

As this can become a relatively involved installation, **we recommend** that a qualified mechanic at a properly equipped facility perform it. We also recommend that the installation be performed on a firm, flat and level surface, such as seasoned asphalt or concrete. The use of safe and properly maintained equipment is very important! In order to document any possible irregularities in the factory ride height of your vehicle, please take a few moments to fill out the *Belltech Vehicle Inspection Record* included with these instructions.

1. JACKING, SUPPORTING, PREPARING THE VEHICLE

a) Block the front wheels of the vehicle with appropriate wheel chocks. Make sure the vehicle's transmission is in "Park" (automatic) or 1st gear (manual). Activate the parking brake.

b) Using a properly rated floor jack, lift the rear of the vehicle off the ground. Lift the vehicle so that the rear tires are approximately 6-8 inches off the ground surface.

c) Support the vehicle using two (2) support stands, rated for the vehicle's weight. The stands should be positioned, one on each of the frame rails. Prior to lowering the vehicle onto stands, make sure the supports will securely contact the straight, flat portions of the frame rails.

! It is very important that the vehicle is properly supported during this installation to prevent frame damage and personal injury! Make sure that the support stands are properly placed prior to performing the following procedures.

d) Slowly lower the vehicle onto the stands and, before placing the vehicle's weight on them, again check that they properly and securely contact the frame rails as described above. Check for possible interference with any lines, wires, or cables.

SAFETY REMINDER: Check for safe vehicle stability before proceeding under the vehicle to begin the following procedures. Never work under a vehicle supported by only a jack. Always use properly rated support stands to support the vehicle.

2. SHOCK EXTENSION INSTALLATION - LEFT HAND

a) Working from the LH side of rear axle, remove the rear shock absorber from the vehicle (Photo 1). Keep the factory hardware for use during reassembly.

b) Place shock extension over LH shock mount (Photo 2) facing towards rear of vehicle as shown.

c) Insert spacer tube into factory shock mount. Align bore of spacer tube with holes in the shock mount and shock extension.

d) Insert one (1) 9/16-12 x 3 ½ H.H.C.S. with washer, from outside, through hole in shock extension, factory shock mount, spacer tube, and out the other side. Secure with washer a locknut (Photo 3). Tighten and torque to 100 ft-lbs.

3. SHOCK EXTENSION INSTALLATION – RIGHT HAND

a) Repeat Steps 2a through 2d for RH side of axle. Note that shock extension will face toward front of vehicle due to the staggered shock mount design.

4. SHOCK ABOSROBER INSTALLATION

a) Install the appropriate *Belltech* Nitro-Drop® or Nitro-Active® rear shock absorbers using the original hardware (Photo 4). See the current *Belltech Application Guide* or contact you nearest *Belltech Dealer* for the appropriate part numbers for your application. Tighten and torque hardware to 70 lb ft.

! Due to installation variables and factory manufacturing variances beyond our control, we highly recommend that the driveline angles present in the vehicle after modification be checked and compared to the driveline angles present before modification and, if necessary, be brought back within factory specifications. Installation of shims and/or center-carrier bearing adjustments may be required.

5. FINALIZING THE INSTALLATION

a) Check that all components and fasteners have been properly installed, tightened and torqued.
b) Lift vehicle and remove support stands. Carefully lower vehicle to ground.
c) Check brake hoses, cables and other components for any possible interference.
d) If necessary, check driveline angles as described above.
e) Check for wheel/tire to chassis/body interference.
f) 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 lowered.
g) Take the vehicle to a qualified shop for 4-wheel alignment.
h) Check all of the hardware and re-torque at intervals for the first 10, 100, and 1000 miles.

! The front of the vehicle MUST be lowered accordingly for proper handling and performance and also to maintain warranty.

Parts List: *6654 GMT800 Rear Shock Extension Kit*

Part #	Description	Quantity
6612-012	Shock Extension	2
110456	9/16-12 x 3 ½ H.H.C.S. Grade. 8	2
110454	9/16-12 Locknut	2
110670	9/16 AN Washer A325	4
7000-880	Shock Spacer Tube .75 O.D. x 1 5/8”	2

Pictures 1 thru 4