



## #C1224 Installation Instructions 2004+ Chevy Colorado/GMC Canyon 2" Suspension Lift

### Read and understand all instructions and warnings prior to installation of product and operation of vehicle.

Zone Offroad Products recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known. Minimum tool requirements include the following: Assorted metric and standard wrenches, hammer, hydraulic floor jack and a set of jack stands. See the "Special Tools Required" section for additional tools needed to complete this installation properly and safely.

#### » PRODUCT SAFETY WARNING

Certain Zone Suspension Products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. Zone Offroad Products does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

#### » TECHNICAL SUPPORT

*Live Chat* provides instant communication with Zone tech support. Anyone can access live chat through a link on [www.zoneoffroad.com](http://www.zoneoffroad.com).

[www.zoneoffroad.com](http://www.zoneoffroad.com) may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to [tech@zoneoffroad.com](mailto:tech@zoneoffroad.com) detailing your issue for a quick response.

**888.998.ZONE** Call to speak directly with Zone tech support.

#### Difficulty Level

easy 1 **2** 3 4 5 difficult

Estimated installation: 2-3 hours

#### Special Tools Required

Large C-clamps

#### Tire/Wheel Fitment

31x10.50x15 - stock backspacing

#### » PRE-INSTALLATION NOTES

1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
4. Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
5. Secure and properly block vehicle prior to installation of Zone Offroad Products. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, Zone Offroad Products recommends rear alterations first.
7. Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.

## Kit Contents

Qty	Description		
1	Torsion Key -DS	2	Add-A-Leaf
1	Torsion Key - PS	2	5/16" Center Pin & Nut
2	Shock Spacer	4	1/2" x 3-1/4" x 7" Rnd U-bolt/Nuts/Washers
4	Diff. Drop Spacer	2	5/16" x 3-1/2" Center Pin/Nut

**\*Important\*** Verify you have all of the kit components before beginning installation.

### Important—measure before starting!

Measure from the center of the wheel up to the bottom edge of the wheel opening

LF \_\_\_\_\_ RF \_\_\_\_\_

LR \_\_\_\_\_ RR \_\_\_\_\_

**Important** - Measure from the exposed length of the torsion bar adjusters before starting:

Drv \_\_\_\_\_ Pass \_\_\_\_\_

**Caution:** There is an extreme amount of energy stored in the torsion bars. Use extreme care with the proper tools to avoid serious injury or death.

## INSTALLATION INSTRUCTIONS

### » FRONT INSTALLATION

1. Park vehicle on clean, flat, and level surface. Block the rear wheels for safety.
2. Measure the ride height of the vehicle and record.
3. Raise the front of the vehicle with a hydraulic jack. Support the frame rails with jackstands.
4. Measure the length of the torsion bar adjuster bolts (threaded portion sticking past the adjuster)
5. Spray the bolts with penetrating oil. Remove the adjuster bolts, keep driver's and pass side bolts separate.
6. Raise up the torsion bar key and remove the key from the torsion bar and cross member.
7. Disconnect the upper shock hardware. Compress the shocks and remove the lower cup washer and bushing. Install the new spacer sleeve on the shock stud.

Figure 1

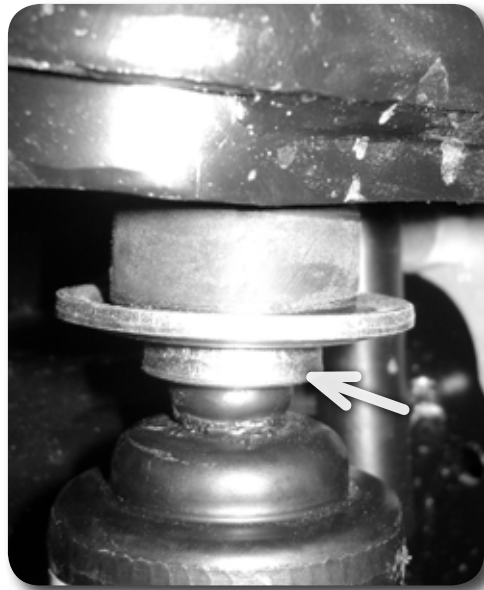


Figure 1

8. Reinstall the shock bushings and cup washers. Tighten the nut until the bushings begin to swell.
9. Install the new torsion bar keys.
10. Install the adjuster bolt and the threaded bridge.
11. Set the overall length of the exposed thread to 1-3/8". This may need to be adjusted if heavy accessories are added to the front of the vehicle, or to level the vehicle side to side. Figure 2

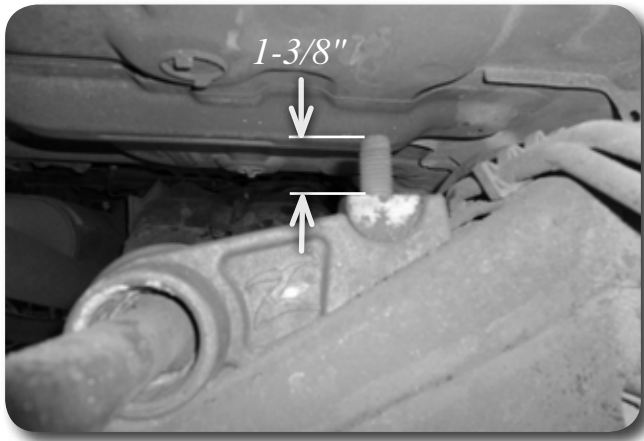


Figure 2

## » DIFFERENTIAL DROP INSTALLATION

12. Support the differential with a jack and locate the 4 bolts mounting the differential to the frame. Figure 3

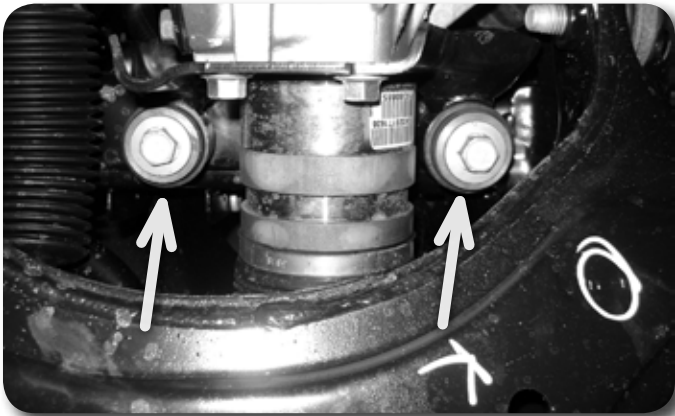


Figure 3 Passenger Side Shown

13. Doing one side at a time, remove the 2 mounting bolts and lower the jack to allow enough clearance for the provided differential drop spacers. Figure 4



Figure 4 - Drivers Side Shown

### Step 13 Note

Due to interference with the lower control arm, it is easiest to leave the rearward bolt inside the differential bushing, install the spacer and replace the bolt.

14. Install both spacers and loosely reassemble using the factory bolts
15. Repeat steps 13 & 14 for the other side of the vehicle. **Figure 5**

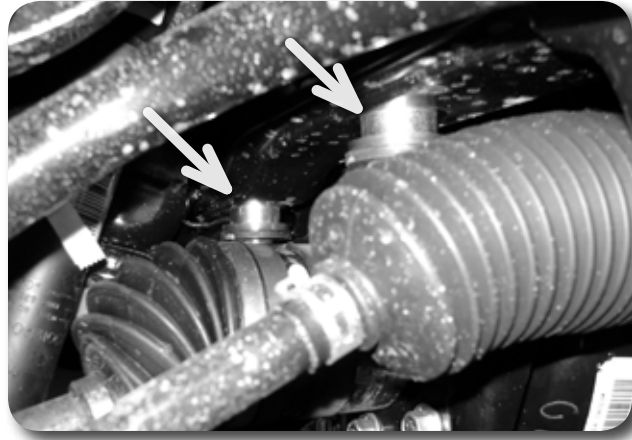


Figure 5 - Passenger Side with spacers installed

16. Once all 4 spacers have been installed, tighten bolts to 112 ft-lbs.

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### »» **FINAL FRONT INSTALLATION**

17. Lower the front end to the ground, bounce the front end to settle the suspension.
18. Check the final ride height measurements on both sides. This should be set at 22-3/4"~23". If it is greater than this, the adjusters need to be lowered. It may be necessary to adjust one side to make the vehicle level.

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### »» **REAR INSTALLATION**

1. Block the front wheels and raise the rear of the vehicle with a hydraulic jack. Support at the frame rails with jack stands ahead of the leaf springs.
2. Remove the rear wheels.
3. If replacing the rear shocks, remove them now. If not replacing the rear shocks, disconnect them at the axle only. Save hardware.
4. Starting on the passenger's side, remove the factory u-bolts and the lower leaf spring plate.
5. Using a hydraulic jack, raise the passenger's side of the axle up off of the leaf spring approximately 3". If it may be necessary to loosen the driver's side u-bolts to allow the axle to move.
6. Place two large C-clamps on each side of the leaf spring center pin. Tighten the clamps and remove the center pin. Slowly loosen the C-clamps allowing the leaf spring to separate.
7. Place the new provided add-a-leaf into the leaf pack so that the leaf above is longer and the leaf below is shorter. Compress the leaf pack together with the C-clamps and install the new center pin from the top down. Tighten the center pin to 20 ft-lbs. **Do Not** pull the leaf pack together with the center pin.
8. Lower that axle onto the leaf spring and align the center pin/hole. Fasten with the provided u-bolts, nut and washers. Snug u-bolts to hold the assembly together.
9. Repeat add-a-leaf installation on the driver's side.
10. If replacing the rear shocks, install the new shocks now with the factory hardware. If reusing the factory shocks, reattach to the axle with the factory hardware.

ware. Torque the upper bar pin bolts to 25 ft-lbs and the lower axle mount bolt to 70 ft-lbs.

11. Install the wheels and lower the vehicle to the ground. Torque lug nuts to 100 ft-lbs. Torque the new u-bolts to 70 ft-lbs.

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## »» **POST-INSTALLATION**

1. Check all hardware for proper torque.
2. A front end alignment must now be performed.
3. Check hardware after 500 miles.

### **Post-Installation Warnings**

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.
2. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure.
3. Perform head light check and adjustment.
4. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.