



## C1215 Installation Instructions 2005-10 Hummer H3 (4wd) 2" Leveling Kit

### 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.

#### »» 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.

#### Difficulty Level

easy 1 **2** 3 4 5 difficult

Estimated installation: 2 hours

#### Special Tools Required

27mm Socket

#### Tire/Wheel Fitment

33x12.50x16 - stock backspacing

## INSTALLATION INSTRUCTIONS

### Kit Contents

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

Qty	Part
1	Torsion Key - DS
1	Torsion Key - PS
2	Shock Spacer

### 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.

### »» PRE-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)

### »» TORSION KEY & SHOCK INSTALLATION

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 to allow the suspension to fully droop.
8. Install the new torsion bar keys.
9. Install the adjuster bolt and the threaded bridge.
10. Set the overall length of the exposed thread to 1-1/4". 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 1**

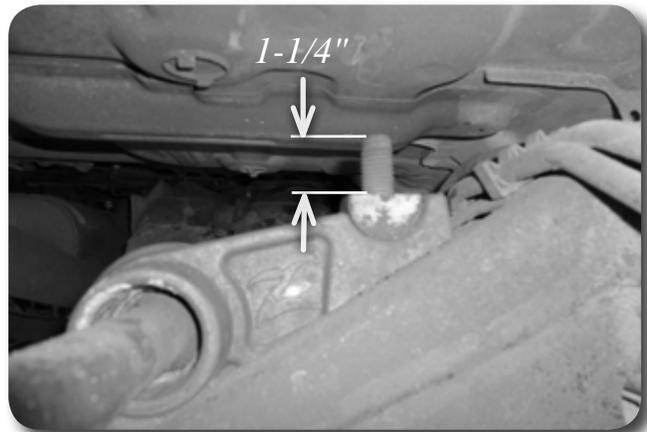


Figure 1

11. If you purchased new front shocks, proceed to step 13. If using the factory shocks, compress the shocks and remove the lower cup washer and bushing. Install the new spacer sleeve on the shock stud. **Figure 2**



Figure 2

12. Reinstall the shock bushings and cup washers. Tighten the nut until the bushings begin to swell. Skip to step 15.
13. If installing new shocks, remove the lower shock bolts and remove the shocks from the vehicle. It is necessary to compress the shocks to remove them.
14. Install a provided cup washer and shock bushing on the new shock stem. Compress the shock and install it in the vehicle. Install the remaining shock bushing and cup washer on the top followed by the nut and torque until the bushings begin to swell. Repeat installation on the other side.

## »» POST INSTALLATION

15. Lower the front end to the ground, bounce the front end to settle the suspension.
16. Check the final ride height on both sides measured from the center of the wheel to the fender. This should be set at 23-1/2"~23-3/4" max. 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.
17. A front end alignment must now be performed.

## Step 14 Note

Due to a difference in shock stud length on the replacement shocks, it may be necessary to compress the suspension to get the stem nuts started.

## 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.