

# PRO RYDE SUSPENSION SYSTEMS

# PRO RYDE

EXACTLY THE WAY YOU WANT IT.™

## PRO RYDE TORSION KEY FRONT LIFT/LEVELING KIT INSTALLATION

2011 and up HD GM (8-LUG)

PATENTED

### IMPORTANT!

Read **ALL WARNINGS** and information contained in these instructions **PRIOR** to installing this product. **Vehicle Owner MUST** be provided the **IMPORTANT VEHICLE OWNER'S INFORMATION** section of these instructions after installation of this product.

#### Bill of Materials

- (1) Installation Instructions & Warnings
- (2) Forged Replacement Torsion Keys
- (6) Forged Replacement Adjuster Brackets
- (2) Forged 3" 12.9 Adjuster Bolts
- (2) Shock Extender Spacers
- (2) Low Profile Shock Mount Nuts



**ALWAYS WEAR PROPER EYE PROTECTION & USE TOOLS SPECIFIC TO THE JOB!**

**STEP 1:** On a flat, level surface, MEASURE pre-installation ride height, FRONT & REAR, and write down measurements.

Front (L) \_\_\_\_\_  
Front (R) \_\_\_\_\_  
Rear (L) \_\_\_\_\_  
Rear (R) \_\_\_\_\_



**STEP 2:** Position vehicle on a stable, flat surface or automotive lift. Chock wheels. Be sure engine is turned OFF and vehicle is in PARK.



**STEP 3:** Suspend front wheels, lifting by the frame. Secure using jack stands. Make sure wheels are chocked!



**STEP 4:** Remove front tires/wheels, and locate Upper Shock Mounts.



**STEP 5:** Loosen, then remove the two front Upper Shock Mounting Nuts on both sides of vehicle.



**STEP 6:** Install new front Shock Extender Spacers. Compress top of each shock downward to access the two threaded shock mount studs, and install one Shock Extender Spacer on each of the four studs.



**STEP 7:** Reinstall shock and secure using four new Low Profile Shock Mount Nuts supplied with this kit.



**STEP 8:** Locate the OEM Torsion Key. They are located where the torsion bars are received into the Crossmember between the frame.



**STEP 9:** Using a 22MM socket, loosen and remove the OEM Torsion Key Adjusting Bolt.



**STEP 10:** Using a tool specific to GM vehicles such as 88-8000 or similar, compress the key until it clears the Threaded Adjuster Bracket.



**STEP 11:** Remove OEM Adjuster Brackets and 88-8000 tool.



**STEP 12:** Use an air hammer to slide the Torsion Bar forward to clear the Torsion Key.



**STEP 13:** Remove OEM Torsion Key. Install ProRyde Torsion Key and slide Torsion Bar back into Torsion Key.



**STEP 14:** Use a Torsion Bar Unloading/Loading tool to compress the key until it clears the Adjuster Bracket slot.



**STEP 15:** Install the New Forged Adjuster Bracket included with this kit.

**IMPORTANT!** Make sure that the depressions of the Bracket are facing **DOWNWARD**, and properly centered between the Crossmember.



**STEP 16:** Install new Forged 3" 12.9 Adjuster Bolt make sure it has full thread engagement before removing tool.



**STEP 17:** SLOWLY release tension on the Unloading Tool until it can be fully removed, then repeat Steps 12 through 16 on other side of vehicle.



**STEP 18:** Each full turn of the Adjusting Bolt will alter ride height approximately 1/8". Each half turn will result in a ride height change of approximately 1/16".



**STEP 19:** Reinstall tire/wheel assemblies, and check that ALL suspension components and lug nuts have been properly torqued to manufacturer's specs.



**STEP 20:** Lower the vehicle, jounce suspension and measure ride height of EACH SIDE of the vehicle. Measure from the bottom of the wheel/rim to the lip of the fender.



**STEP 21:** Perform a complete wheel alignment, utilizing a Certified Alignment Technician with experience working on lifted vehicles.



**STEP 22:** ADJUST HEADLIGHTS to accommodate new front ride height position

**IMPORTANT!** Available SHOCK TRAVEL limits the amount of available lift, NOT the number of threads available on the Adjuster Bolt! Be sure adequate shock travel is evident after adjustment.



The gap between the Upper Control Arm and Bump Stop should be 1/4" to 1/2" with weight on the wheels.

As with any aftermarket Torsion Key Kit, it may be possible to over-torque torsion bars. Be sure adequate shock travel & bump stop clearance is evident after adjustment as determined by an ASE Certified professional mechanic.

**IMPORTANT!** Check all fasteners for proper torque. Check to insure there is adequate clearance between all rotating, mobile, fixed and heated members. Check steering for interference and proper working order. Test brake system.

Before:



After:



Complete a full 4-corner lift and install a PRORYDE SuperBLOK ADJUSTABLE rear Lift Kit!



## IMPORTANT VEHICLE OWNER'S INFORMATION

Silverado/Sierra 2500HD, 3500HD

### PATENTED

#### Adjusting Lift/Leveling kit after installation

**(1) Always wear proper eye protection! Position vehicle on a stable, flat surface and SUSPEND FRONT WHEELS, lifting by the frame with a floor jack or lift jack. Secure frame with jack stands. Chock tires and turn engine OFF prior to adjustment!**

**(2)** Locate the two Torsion Key Adjusting Bolts in the Crossmember of your vehicle's chassis.

**(3)** Using a ratchet wrench and 22 mm socket, engage the Adjusting Bolt and **SLOWLY** turn **CLOCKWISE** to **INCREASE** ride height, or **COUNTER-CLOCKWISE** to **DECREASE** ride height. Each full turn of the Adjusting Bolt will alter ride height approximately 1/8". Each half turn will result in a ride height change of approximately 1/16".

**(4)** Be sure to always check that both sides of the vehicle have been adjusted to the same ride height. **Under no circumstances should this product be altered to adjust ride height beyond its design limits.**

Remember! Any change to ride height will affect vehicle's Wheel Alignment and Handling! Always realign the vehicle any time ride height is adjusted, and be sure to adjust headlights as necessary.

**Minimum Ride Height Change: 0.75"** (beyond manufacturer's lowest setting)

**Maximum Ride Height Change: 2.25"** (beyond manufacturer's highest setting)

**Total Range: 2.5"**

#### **WARNING**

**This product should only be installed and adjusted by an ASE certified professional mechanic with proper tools and safety equipment.**

Installation of this product modifies vehicle ride height. The driver of this vehicle should avoid unnecessary or abrupt maneuvers, sharp turns and other driving conditions that could lead to rollover or other serious accident. This product will affect vehicle center of gravity resulting in less than the original OE stability characteristics.

The manufacturer of this product releases itself from any liability or consequence, inclusive but not limited to personal injury, failure of components or damage to vehicle or person as a result of installing this product.

Warranties may be declined for any parts installed by any person other than an ASE certified professional. No warranty will be made for any other OEM or aftermarket components that may be affected by the installation of this product either in use or during installation. This kit is intended for use on stock suspensions WITHOUT any previous modifications whatsoever. Installation of this kit in conjunction with other aftermarket products will be done at vehicle owner's own risk, and voids any and all warranties.

Installation of this part MAY limit or void some vehicle manufacturer's warranties!

**ALWAYS DRIVE SAFELY, REDUCE SPEED, AND WEAR YOUR SEAT BELT.**

#### **LIMITED LIFETIME WARRANTY**

This product is warranted to be free of defects in materials and workmanship to the original purchaser on the vehicle in which it is originally installed. This warranty does not cover loss of time, labor, or any other components as a result of damage. This warranty may be void if this product is installed by any person other than an ASE certified professional.