



## PRO COMP SUSPENSION

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Suspension Systems that Work!

**PN# 63201  
1999-2010  
8- Lug GM  
2500 2wd/4wd  
1" Rear Block  
Kit**

This document contains very important information that includes warranty information and instructions for resolving problems you may encounter. Please keep it in the vehicle as a permanent record.

| <b>Part #</b> | <b>Description</b>     | <b>Qty.</b> |
|---------------|------------------------|-------------|
| 13-90086Em    | U-BOLT                 | 4           |
| 95-102        | 1" LIFT BLOCK: Cast    | 2           |
| 20-65303m     | HARDWARE PACK: Hi Nuts | 1           |

*NOTE: All part images may vary from catalog and instructions.*

| <b><u>RECOMMENDED PRO COMP SHOCKS</u></b> |                      |                     |
|---|----------------------|---------------------|
|   | <b><u>Front:</u></b> | <b><u>Rear:</u></b> |
| <b><u>1500 HD</u></b>                     |                      |                     |
| <b><u>ES9000</u></b>                      | 915553               | 926543              |
| <b><u>MX-6</u></b>                        | MX6056               | MX6036              |
| <b><u>2500 HD</u></b>                     |                      |                     |
| <b><u>ES9000</u></b>                      | 915553               | 926505              |
| <b><u>MX-6</u></b>                        | MX6161               | MX6036              |
| <b><u>3500 HD</u></b>                     |                      |                     |
| <b><u>ES9000</u></b>                      | 915553               | 925543              |
| <b><u>MX-6</u></b>                        | MX6056               | MX6036              |
| <b><u>2500 SUV</u></b>                    |                      |                     |
| <b><u>ES9000</u></b>                      | 917552               | 925543              |
| <b><u>MX-6</u></b>                        | MX6161               | MX6036              |
| <b><u>HUMMER H2</u></b>                   |                      |                     |
| <b><u>ES9000</u></b>                      | 915553               | 927543              |
| <b><u>MX-6</u></b>                        | MX6133               | MX6105              |

### **Equipment Available from your Pro Comp Distributor!**

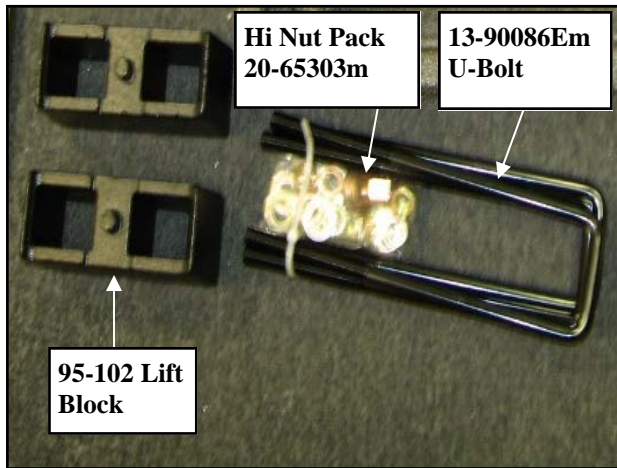
- 4WD Avalanche/Yukon XL 6" Suspension Lift Kit:51022/51022MX
- 4WD Suburban/Yukon XL w/ Ride Control 6" Suspension Lift Kit:51021
- 4WD Tahoe/Yukon w/ Ride Control 6" Suspension Lift Kit:51021
- 4WD Tahoe/Yukon w/out Ride Control 6" Suspension Lift Kit:51022/51022MX
- 4WD Tahoe/Yukon w/out Ride Control 5" Suspension Lift Kit:51025/51025MX
- 4WD Avalanche/Suburban/Yukon XL 2500 w/ out Ride 5" Suspension Lift Kit:51025/51025MX
- 99-09 4WD GM 2500 HD 6" A-Arm Drop Suspension Lift Kit: 51800/51800MX
- 99-09 4WD GM 2500 HD 6" Knuckle Suspension Lift Kit: 51801/51801MX
- 2000-2010 1500/2500 HD 2WD/4WD- 8-Lug 2.5" Lift: LL-3050
- 1500 Series Skid Plate: 51199 (Use With Suspension Lift Kit)
- 2500 Series Skid Plate: 51100 (Use With Suspension Lift Kit)
- 1500 Series Multiple Shock Hoop Kit: 51297 (Use With Suspension Lift Kit)
- 2500 Series Multiple Shock Hoop Kit: 51210 (Use With Suspension Lift Kit)
- 2500 Series Multiple Shock Hoop Kit: 51214 (Use With 51801 Suspension Lift Kit ONLY)
- 90-6640B: Front Inner Fender Relocation Bracket Kit (Use With Suspension Lift Kit)

Also, Check out our outstanding selection of Pro Comp tires to compliment your new installation!

## Introduction:

- ◆ This installation requires a professional mechanic!
- ◆ We recommend that you have access to a factory service manual for your vehicle to assist in the disassembly and reassembly of your vehicle. It contains a wealth of detailed information.
- ◆ Prior to installation, carefully inspect the vehicle's steering and driveline systems paying close attention to the tie rod ends, ball joints, wheel bearing preload, pitman and idler arm. Additionally, check steering-to-frame and suspension-to-frame attaching points for stress cracks. The overall vehicle must be in excellent working condition. Repair or replace all worn or damaged parts!
- ◆ Read the instructions carefully and study the illustrations before attempting installation! You may save yourself a lot of extra work.
- ◆ Check the parts and hardware against the parts list to assure that your kit is complete. Separating parts according to the areas where they will be used and placing the hardware with the brackets before you begin will save installation time.
- ◆ Check the special equipment list and ensure the availability of these tools.
- ◆ Secure and properly block vehicle prior to beginning installation.
- ◆ ALWAYS wear safety glasses when using power tools or working under the vehicle!
- ◆ Use caution when cutting is required under the vehicle. The factory undercoating is flammable. Take appropriate precautions. Have a fire extinguisher close at hand.
- ◆ Foot pound torque readings are listed on the Torque Specifications chart at the end of the instructions. These are to be used unless specifically directed otherwise. Apply thread lock retaining compound where specified.
- ◆ **Please note that while every effort is made to ensure that the installation of your Pro Comp lift kit is a positive experience, variations in construction and assembly in the vehicle manufacturing process will virtually ensure that some parts may seem difficult to install. Additionally, the current trend in manufacturing of vehicles results in a frame that is highly flexible and may shift slightly on disassembly prior to installation. The use of pry bars and tapered punches for alignment is considered normal and usually does not indicate a faulty product. However, if you are uncertain about some aspect of the installation process, please feel free to call our tech support department at the number listed on the cover page. We do not recommend that you modify the Pro Comp parts in any way as this will void any warranty expressed or implied by the Pro Comp Suspension company.**

## REAR INSTALLATION:



1. Prior to installing this kit, with the vehicle on the ground. Measure the height of your vehicle. This measurement can be recorded from the center of the wheel, straight up to the top of the inner fender lip. Record the measurements below.

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

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

2. Block the front tires and raise the rear of the vehicle. Support the frame with jack stands forward of the rear springs.
3. Remove the rear wheels.
4. Unbolt the lower shock mount bolts on both sides of the vehicle. It may be necessary that you slightly raise the axle to unload the shocks for removal.
5. Work on one side of the vehicle at a time.
6. Support the rear axle with a floor jack and remove the **U-bolts** on the driver side. Loosen the **U-bolts** on the passenger side and carefully lower the rear axle.

**NOTE: Be sure not to over extend the rear brake line and rear axle vent line.**

7. Install the lift block (**95-102**) making sure the pin are fitted into the hole on the spring perch. Use your floor jack to raise the axle to the spring making sure the pin on the leaf spring fit into the holes on the new lift block.

8. Secure the assembly with the **U-bolts (13-90086Em)** and new hi-nuts and washers from hardware pack (**20-65303m**). Do not torque the **U-bolts** at this time.

**NOTE: Make sure the block sits flush on the axle perch.**

9. Repeat the installation on the other side of the vehicle.
10. When the installation of the remaining side is complete, torque the **U-bolts** to **120** ft./lbs.
11. Reinstall the lower shock mounts using the previously removed **OE** lower bolts. Torque per **OE** specifications.
12. Now would be a good time to inspect the shocks for damage or fluid leakage. Replace if necessary.

**NOTE: For improved performance Pro Comp shocks are recommended. See the box on page 2 for applications.**

13. Check all hardware at this time to ensure that everything is tight. Check for adequate clearance on all repositioned brake lines and emergency brake cables. Make sure you check with the suspension fully extended, and compressed.
14. Reinstall the wheels and lower the vehicle to the ground. Torque the lug nuts according to the wheel manufacturers recommendations.
15. Torque all bolts to factory specifications. Re-torque all bolts after 500 miles.

Use this only as a guide for hardware without a called out torque specification in the instruction manual.

| <b>Bolt Torque and ID</b>        |         |         |                      |           |            |            |
|----------------------------------|---------|---------|----------------------|-----------|------------|------------|
| <b>Decimal System</b>            |         |         | <b>Metric System</b> |           |            |            |
| All Torques in Ft. Lbs. Maximums |         |         |                      |           |            |            |
| Bolt Size                        | Grade 5 | Grade 8 | Bolt Size            | Class 9.8 | Class 10.9 | Class 12.9 |
| 5/16                             | 15      | 20      | M6                   | 5         | 9          | 12         |
| 3/8                              | 30      | 45      | M8                   | 18        | 23         | 27         |
| 7/16                             | 45      | 60      | M10                  | 32        | 45         | 50         |
| 1/2                              | 65      | 90      | M12                  | 55        | 75         | 90         |
| 9/16                             | 95      | 130     | M14                  | 85        | 120        | 145        |
| 5/8                              | 135     | 175     | M16                  | 130       | 165        | 210        |
| 3/4                              | 185     | 280     | M18                  | 170       | 240        | 290        |

1/2-13x 1.75 HHCS  
D T L X

**Grade 5    Grade 8**  
 (No. of Marks + 2)

M 12-1.25x50 HHCS  
D T L X

**P = Property Class (Bolt Strength)**  
**D = Nominal Diameter (Millimeters)**  
**T = Thread Pitch (Thread Width, mm)**  
**L = Length (Millimeters)**  
**X = Description (Hex Head Cap Screw)**

C = Grade (Bolt Strength)  
 D = Nominal Diameter (Inches)  
 T = Thread Count (Threads per Inch)  
 L = Length (Inches)  
 X = Description (Hex Head Cap Screw)

**Notice to Owner operator, Dealer and Installer:**

Vehicles that have been enhanced for off-road performance often have unique handling characteristics due to the higher center of gravity and larger tires. This vehicle may handle, react and stop differently than many passenger cars or unmodified vehicles, both on and off-road. You must drive your vehicle safely! Extreme care should always be taken to prevent vehicle rollover or loss of control, which can result in serious injury or even death. Always avoid sudden sharp turns or abrupt maneuvers and allow more time and distance for braking! Pro Comp reminds you to fasten your seat belts at all times and reduce speed! We will gladly answer any questions concerning the design, function, maintenance and correct use of our products.

**Please make sure your Dealer/Installer explains and delivers all warning notices, warranty forms and instruction sheets included with Pro Comp product.**

Application listings in this catalog have been carefully fit checked for each model and year denoted. However, Pro Comp reserves the right to update as necessary, without notice, and will not be held responsible for misprints, changes or variations made by vehicle manufacturers. Please call when in question regarding new model year, vehicles not listed by specific body or chassis styles or vehicles not originally distributed in the USA.

**Please note that certain mechanical aspects of any suspension lift product may accelerate ordinary wear of original equipment components.** Further, installation of certain Pro Comp products may void the vehicle's factory warranty as it pertains to certain covered parts; it is the consumer's responsibility to check with their local dealer for warranty coverage before installation of the lift.