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**Latest Revision:**  
**8.27.2012**



## **PRO COMP SUSPENSION**

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**Suspension Systems that Work!**

**PN# 63160  
1999-2013  
GM SUV 1500 6-Lug  
2WD/4WD Tahoe,  
Avalanche, Yukon  
Rear Spacer 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>
90-4298	REAR SPACER	2

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

**RECOMMENDED PRO COMP SHOCKS**

**Front:**

618253 (strut)

**Rear:**

925543

**ES9000**

MX6061

**MX-6**

Optional Equipment Available from your Pro Comp Distributor!

**4WD SUSPENSION LIFT KIT W/ DRIVSHAFT: 51907B Tahoe, 51017B Silverado**  
**4 WD SUSPENSION LIFT KIT W/O DRIVSHAFT: 51947B Tahoe, 51007B Silverado**  
**2WD SUSPENSION LIFT KIT: 51927B Tahoe, 51227B Silverado**  
**4WD/2WD MX-6 COIL OVER UPGRADE KIT: 51207BMX Tahoe**  
**4WD/2WD MX-6 COIL OVER UPGRADE KIT: 51957BMX Silverado**

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.**

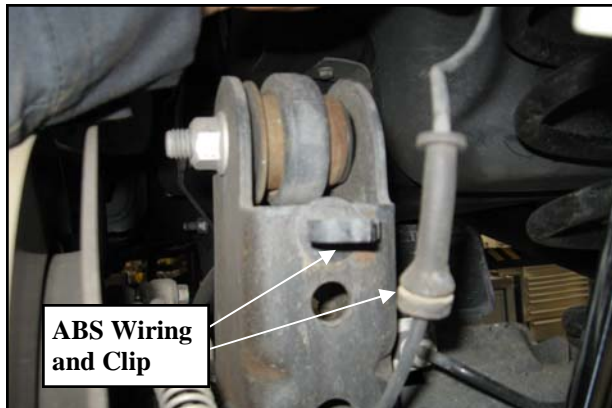
## REAR INSTALLATION:

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.]

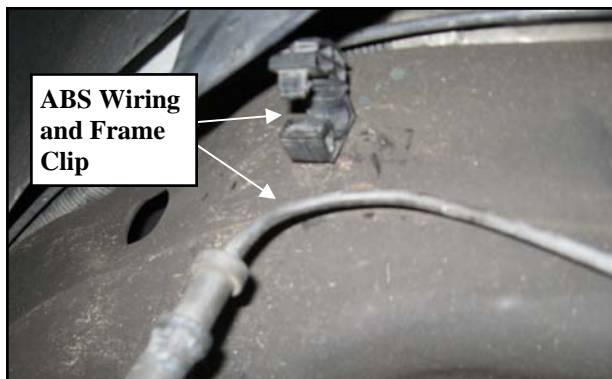
LF: \_\_\_\_\_ RF: \_\_\_\_\_

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. Unclip the ABS lines from the clips on the upper trailing arm mounts.



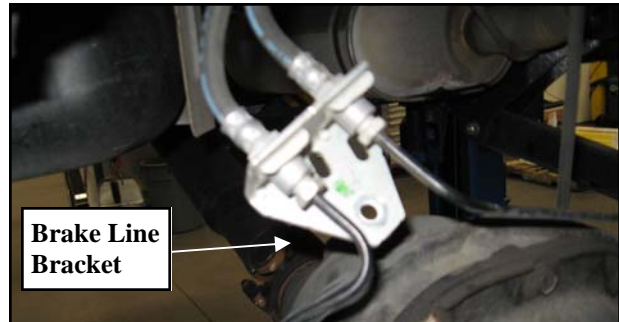
5. Unclip the ABS lines from the clips from the frame rails.



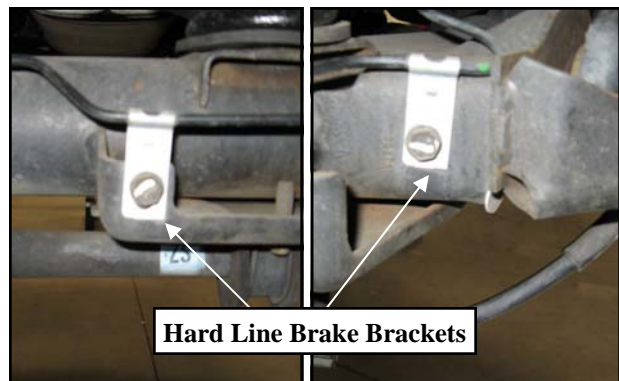
6. **For Vehicles Equipped with Autoride ONLY**, remove the autoride linkage from

the upper trailing arm.

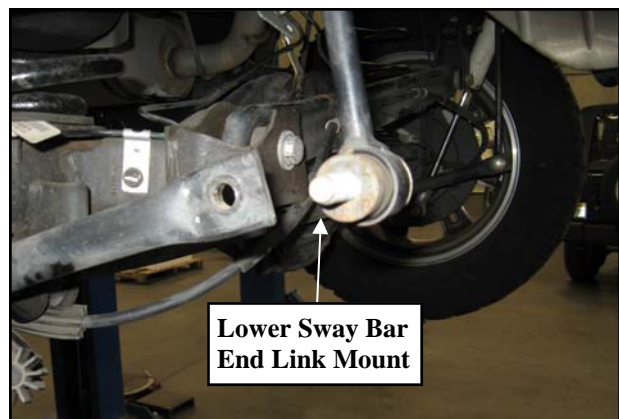
7. Unbolt the brake line bracket from the frame. Save the hardware for reuse.



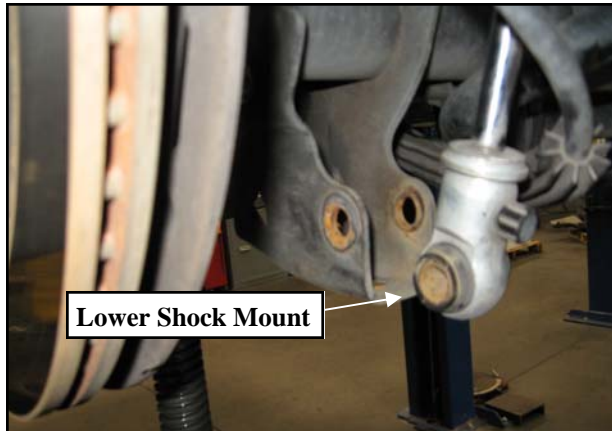
8. Unbolt the hard brake line brackets from the rear axle. Save the hardware for reuse.



9. Unbolt the emergency brake line support bracket from the passenger side frame rail. Save the hardware for reuse.
10. Unbolt the lower sway bar end link to sway bar hardware. Save hardware for reuse.



11. 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.



12. Lower the rear axle enough to remove the coil springs from the front spring pockets. Save the factory isolators for re-use.

**NOTE:** Be sure to support the axle while the springs and shocks are removed.

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

13. Carefully lower the rear end to ease in the new coil spring installation. Reinstall the OE coil springs, coil spacer (90-4298) and OE isolators into the spring buckets. Raise the rear axle into place making sure the coil spring seats properly on the lower spring perch.



14. Reinstall the lower shock mounts using the previously removed OE lower bolts. Torque per OE specifications.
15. Reinstall the emergency brake line support using the previously removed OE bolt.
16. Reinstall the brake line bracket to the frame using the previously removed OE bolt.
17. Reinstall the hard brake line brackets from the rear axle using the previously removed OE bolt.
18. Reinstall the hard brake line brackets from the rear axle using the previously removed OE hardware.
19. **For Vehicles Equipped with Autoride ONLY**, re-attach the autoride linkage to the upper trailing arm.
20. Re-clip the ABS lines to the clips on the upper trailing arm mounts.
21. Re-clip the ABS lines to the clips from the frame rails.
22. 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.
23. Check all hardware at this time to ensure that everything is tight. Check for ade-

quate clearance on all brake lines and emergency brake cables. Make sure you check with the suspension fully extended, and compressed.

24. Reinstall the wheels and lower the vehicle to the ground. Torque the lug nuts according to the wheel manufacturers recommendations.
25. Torque all bolts to factory specifications. Re-torque all bolts after 500 miles.

Revisions Page:

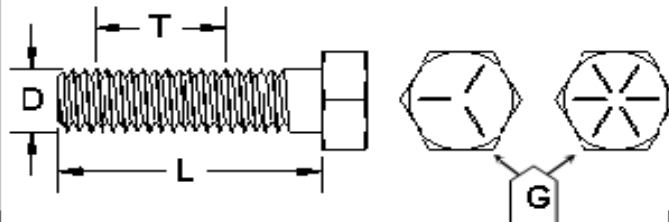
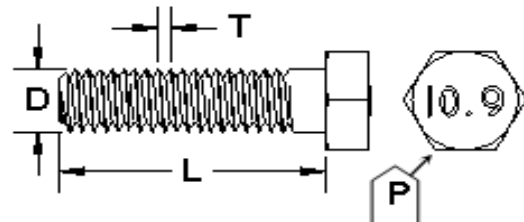
**10.29.2011:** Updated kit fitment to include 2012.

**8.27.2012:** updated kit fitment to include through 2013.

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

 <p>1/2-13x 1.75 HHCS</p> <p><b>Grade 5    Grade 8</b> (No. of Marks + 2)</p> <p>D T L X</p>	 <p>M12-1.25x50 HHCS</p> <p>P</p> <p>D T L X</p>
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<p>C = Grade (Bolt Strength)</p> <p>D = Nominal Diameter (Inches)</p> <p>T = Thread Count (Threads per Inch)</p> <p>L = Length (Inches)</p> <p>X = Description (Hex Head Cap Screw)</p>	<p>P = Property Class (Bolt Strength)</p> <p>D = Nominal Diameter (Millimeters)</p> <p>T = Thread Pitch (Thread Width, mm)</p> <p>L = Length (Millimeters)</p> <p>X = Description (Hex Head Cap Screw)</p>
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**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.

**Warranty and Return policy:**

Pro Comp warranties its full line of products to be free from defects in workmanship and materials. Pro Comp’s obligation under this warranty is limited to repair or replacement, at Pro Comp’s option, of the defective product. Any and all costs of removal, installation, freight or incidental or consequential damages are expressly excluded from this warranty. Pro Comp is not responsible for damages and / or warranty of other vehicle parts related or non-related to the installation of Pro Comp product. A consumer who makes the decision to modify his vehicle with aftermarket components of any kind will assume all risk and responsibility for potential damages incurred as a result of their chosen modifications. Warranty coverage does not include consumer opinions regarding ride comfort, fitment and design. Warranty claims can be made directly with Pro Comp or at any factory authorized Pro Comp dealer.

**IMPORTANT!** To validate the warranty on this purchase please be sure to mail in the warranty card.

**Claims not covered under warranty-**

- Parts subject to normal wear, this includes bushings, bump stops, ball joints, tie rod ends and heim joints
  - Discontinued products at Pro Comp’s discretion
- Bent or dented product
- Finish after 90 days
- Leaf or coil springs used without proper bump stops
- Light bulbs
- Products with evident damage caused by abrasion or contact with other items
- Damage caused as a result of not following recommendations or requirements called out in the installation manuals
- Products used in applications other than listed in Pro Comp’s catalog
- Components or accessories used in conjunction with other manufacturer’s systems
- Tire & Wheel Warranty as per Pro Competition Tire Company policy
- Warranty claims without “Proof of Purchase”
- Pro Comp Pro Runner coil over shocks are considered a serviceable shock with a one-year warranty against leakage only. Rebuild service and replacement parts will be available and sold separately by Pro Comp. Contact Pro Comp for specific service charges.
- Pro Comp accepts no responsibility for any altered product, improper installation, lack of or improper maintenance, or improper use of our products.

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<b>PLACE</b>
<b>WARRANTY REGISTRATION</b>
<b>NUMBER</b>
<b>HERE:</b> _____