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PRO COMP SUSPENSION

Suspension Systems that Work!

**IMPORTANT! This kit is to be used in conjunction with Pro
Comp lift kits 51099 & 51011 ONLY!**

**PART# 51051
1500 GM
ELECTRONIC
SHOCK ADAPTER
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.

Part #	Description	Qty.	Illus.	Page
90-1670	Front Shock Relocation Bracket-driver	1	-	-
90-1674	Front Shock Relocation Bracket-Pass.	1	1	4
90-6433	Hardware Pack: Front Shock Bracket	1	-	-
70-0561501800	9/16" X 1 1/2" GR. 8 Bolt	4	4	1
72-056100816	9/16" GR. 8 Stover Nut	4	4	1
73-05600034	9/16" SAE Hardened Washer	8	4	1
70-0621501800	5/8" X 1 1/2" GR. 8 Bolt	2	4	1
72-062100816	5/8" GR. 8 Stover Nut	2	4	1
73-06200034	5/8" Hardened SAE Washer	4	4	1
73-06200042	5/8" Hardened USS Washer	2	4	1
90-6275	Hardware Pack: Front Bracket Spacer	1	-	-
90-1784	Spacer- 1.650" X .620" X .042"	8	-	-
90-3292	3/16" Spacer: Front Bracket Spacer	2	-	-
90-3287	Rear Shock Bracket	2	1	5
90-3290	Emergency Brake Relocation Bracket	1	1	5
97-3291	Drill Template: Emergency Brake Bracket	1	1	5
90-6431	Hardware Pack: Rear Shock Brackets	1	-	-
70-0310751800	5/16" X 3/4" Gr. 8 Bolt	1	1	5
72-031100816	5/16" Stover Nut	1	1	5
73-03100832	5/16" Flat Washer	2	1	5
70-0563501800	9/16" X 3 1/2" Gr. 8 Bolt	2	1	5
72-056100816	9/16" Stover Nut	2	1	5
73-05600832	9/16" Flat Washer	4	1	5
70-0504001800	1/2" X 4" Gr. 8 Bolt	2	1	5
72-050100816	1/2" Stover Nut	2	1	5
73-05000832	1/2" Flat Washer	4	1	5

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.**

FRONT INSTRUCTIONS:

NOTE: Install shock relocation brackets after step #40 in kits 51099 and 51011.

1. Install the shock relocation brackets (PN 90-1670 - Driver, and 90-1674 - Passenger) between the OE upper A-arm mounts and under the OE shock mount. Use the 9/16" X 1 1/2" bolts, washers and nuts in the (2) inside A-arm mount locations. Use ILLUSTRATION 1 as a reference.

NOTE: Spacers 90-1784 and/or spacers 90-3292 can be used to assure a proper fit for the front shock relocation brackets in between the upper A-arm frame mounting locations.

2. Secure the top of the shock relocation bracket (PN 90-1670 - Driver, and 90-1674 - Passenger) to the factory shock

pocket using the 5/8" X 1 1/2" bolt and hardware. See ILLUSTRATION 1.

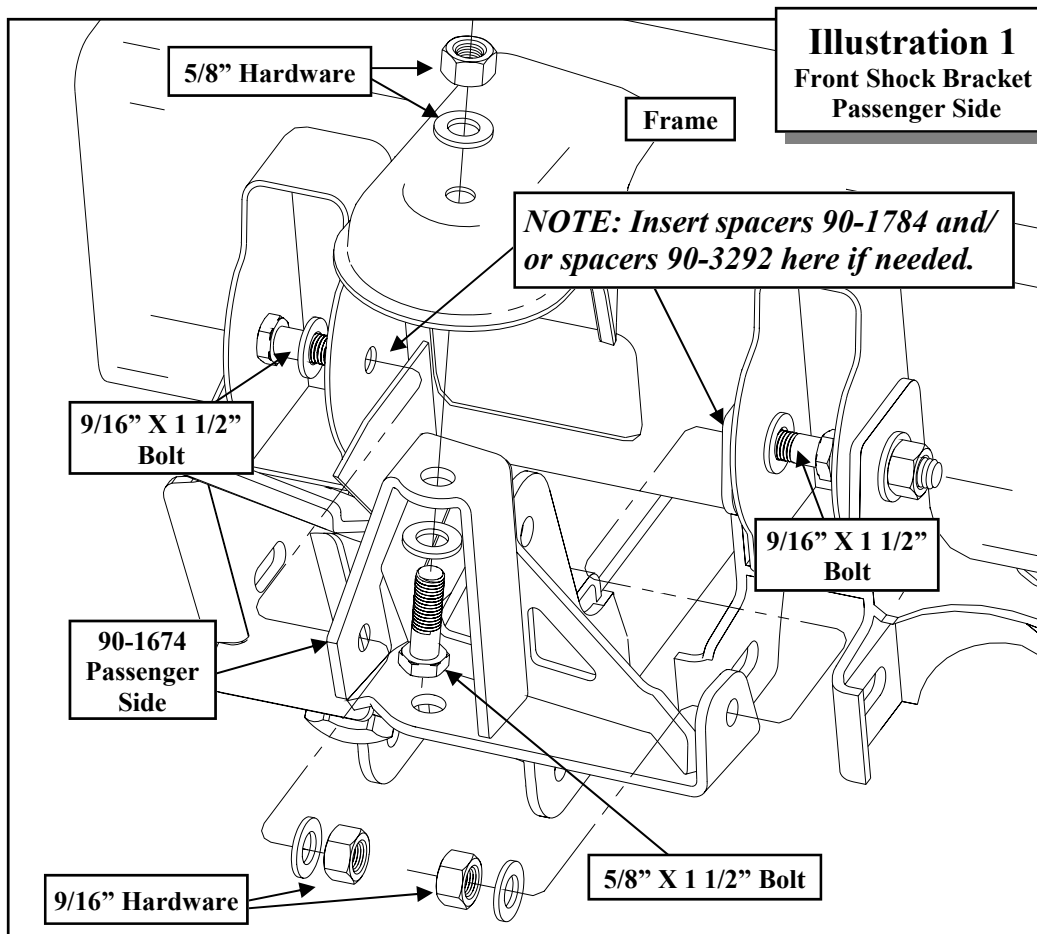
3. At this point, torque all shock relocation hardware according to the torque chart on page 7.
4. Install the OE shock absorber to the relocation bracket and to the lower A-arm using the OE mount hardware.

Note: Remember to reinstall wiring to the top of the shock!

5. Repeat steps 1 through 4 on the remaining side of the vehicle.

NOTES:

- ⇒ After 100 miles recheck for proper torque on all newly installed hardware.
- ⇒ Recheck all hardware for tightness after off road use.



REAR INSTRUCTIONS:

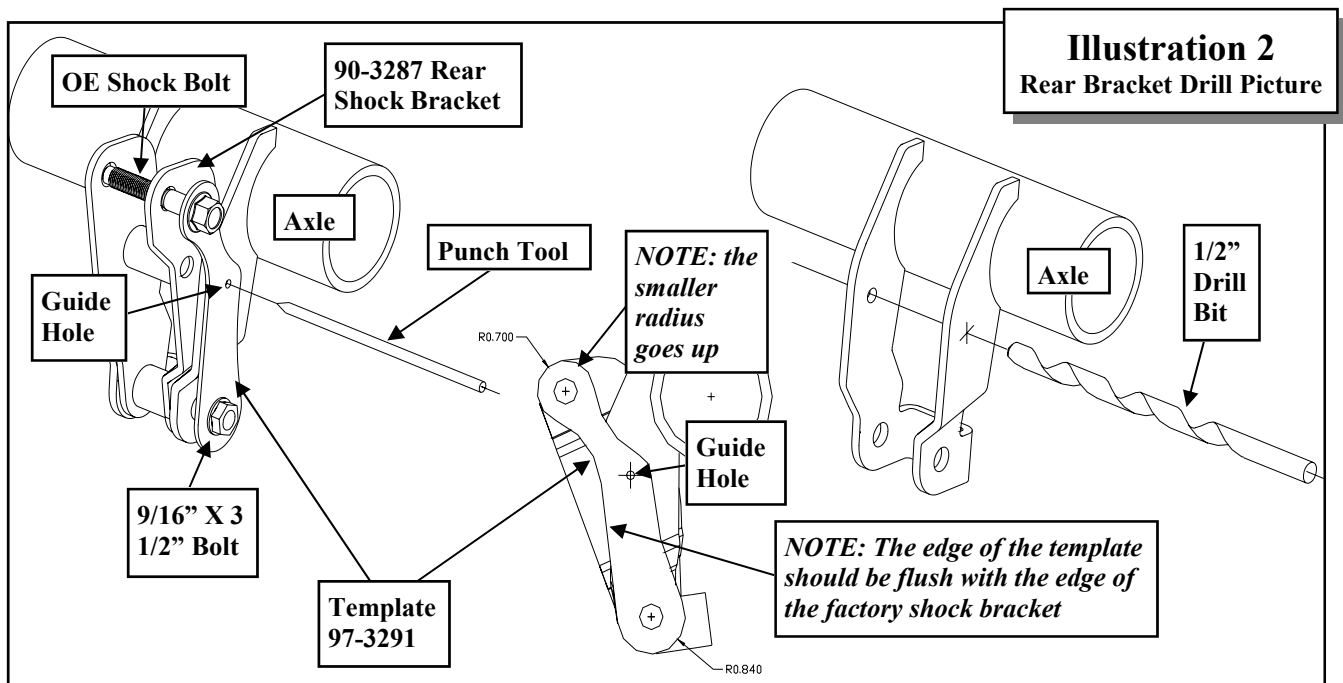
1. Block the front tires and raise the rear of the vehicle. Support the frame with jack stands forward of the rear springs.
2. Remove the factory shocks on both sides of the vehicle. It may be necessary that you slightly raise the axle to unload the shocks for removal.
3. On the Driver side only, Unbolt the factory emergency brake bracket from the rear axle.
4. Work on one side of the vehicle at a time.
5. Insert the new drop bracket (90-3287) into the rear axle shock mount pocket. The tapered edges of the bracket will face toward the front of the vehicle. See ILLUSTRATION 2. Install the supplied template (97-3291) using the supplied 9/16" X 3 1/2" bolt through the lower hole.
6. Rotate the new shock bracket (90-3287) up until it contacts the rear end. See ILLUSTRATION 2.

NOTE: The welds for the factory rear axle brackets may need to be ground down in order for the new droop bracket to fit properly against the axle tube.

7. Swing the template up and hold the template in place with the OE shock bolt through the top hole

NOTE: The rear edge of the template should line up with the rear edge of the factory shock bracket. See ILLUSTRATION 2.

8. Use the small guide hole in the middle of the template to mark and center punch the factory rear axle bracket. See ILLUSTRATION 2.
9. Remove the template and the drop bracket (90-3287) from the rear axle. Drill out the previously marked guide hole to 1/2". See ILLUSTRATION 2.
10. Reinstall the drop bracket (90-3287) into place and secure using the 9/16" X 3 1/2" bolt in the lower hole and the 1/2" X 4" bolt and hardware in the middle hole. See ILLUSTRATION 3.



NOTE: On the driver side only, bolt the factory parking brake bracket to the parking brake relocation bracket (90-3290) using the 5/16" X 3/4" bolt and hardware. Place the larger hole of the parking brake relocation bracket (90-3290) over the 1/2" X 4" middle bolt and secure with the 1/2" X 4" hardware. See ILLUSTRATION 3.

NOTE: All bolt heads will face toward the inside of the vehicle

11. Torque all shock bracket hardware according to the torque chart on page 7.
12. Repeat steps 5 through 11 on the passenger side

13. Reinstall the factory shocks into the new shock brackets and secure with the OE bolts. Torque to factory specifications. See ILLUSTRATION 3.
14. Remove the jack stands and lower the vehicle to the ground.

NOTES:

- ⇒ After 100 miles recheck for proper torque on all newly installed hardware.
- ⇒ Recheck all hardware for tightness after off road

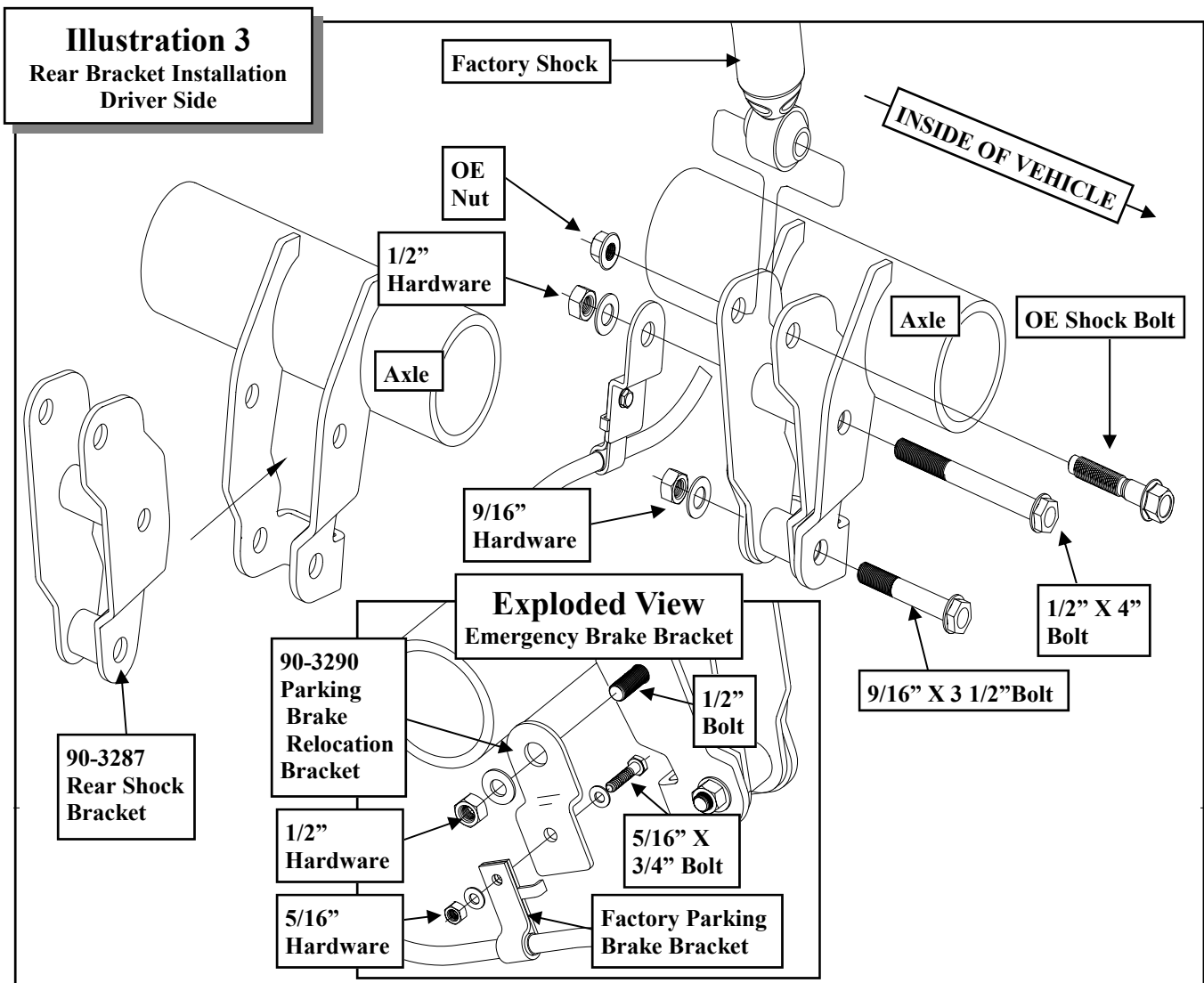
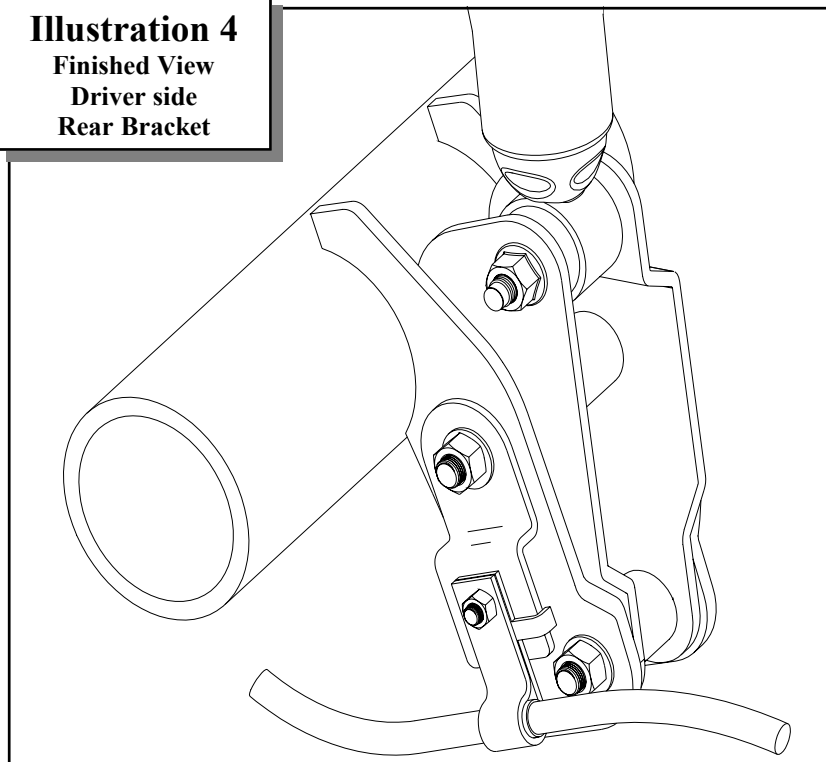


Illustration 4
 Finished View
 Driver side
 Rear Bracket



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

Bolt Torque and ID						
Decimal System			Metric System			
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	185	210
3/4	185	280	M18	170	240	290

<p>1/2-13x1.75 HHCS D T L X Grade 5 Grade 8 (No. of Marks+2)</p>	<p>M12-1.25x50 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)</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 warrants 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.

E-Mail: tech@explorerprocomp.com
 Website: www.explorerprocomp.com
 Fax: (619) 216-1474
 Ph: (619) 216-1444

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