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11.29.2022



PRO COMP SUSPENSION

61183K
Nitro Lift Kit 2.5"/1.5"
2019– 2022 Dodge Ram 1500 4WD

READ INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE BEGINNING INSTALLATION. INSTALLATION BY A CERTIFIED PROFESSIONAL MECHANIC IS HIGHLY RECOMMENDED. PRO COMP IS NOT RESPONSIBLE FOR ANY DAMAGE OR FAILURE RESULTING FROM IMPROPER INSTALLATION. 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.
94-8010m	COILOVER SPACER	2
90-6317m	HARDWARE PACK: SPACER MOUNT 10mm-1.25 FLANGE NUT	1 6
90-6264	HARDWARE PACK: DROOP STOP	1
15-11018	DROOP STOP	2
72-03700100512	3/8" NYLOCK NUT	2
73-03700032	3/8" FLAT WASHER	2
94-11822	DROOP STOP BRACKET: Drvr	1
94-11823	DROOP STOP BRACKET: Pass	1
35-11824	DUAL NUTPLATE: 12mm-1.75	2
94-11826	REAR COIL SPACER	2
90-60724	HARDWARE PACK: Droop Stop Bracket	1
71-120301758800	12mm-1.75 X 30mm HEX BOLT 8.8	4
73-01200040	12mm FLAT WASHER	4
90-6769	HARDWARE PACK: Rear Coil Spacer	1
.120C350HCSTMZ	12mm-1.75 X 35mm HEX BOLT 8.8	2
.120NWHDY	12mm HARDENED FLAT WASHER	2
.120CNNEZ	12mm NYLOCK NUT	2

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

PLEASE NOTE:

Due to differences in manufacturing, dimensions and inflated measurements, tire and wheel combinations should be test fit prior to installation. Tire and wheel choice is crucial in assuring proper fit, performance, and the safety of your Pro Comp equipped vehicle. For this application, we recommend no larger than a 35" X 12.50" tire on a 9" wheel with 5" of backspacing. Additionally, quality tire of radial design wide is also recommended. Violation of these recommendations will not be endorsed as acceptable by Pro Comp Suspension and will void any and all warranties either written or implied.

FRONT INSTALLATION:

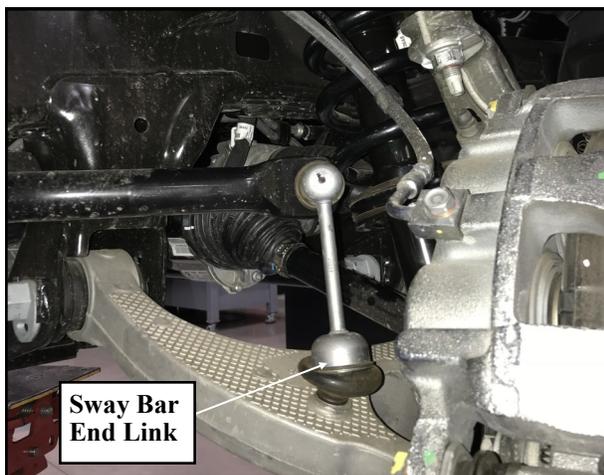
1. Prior to installing this kit, with the vehicle on flat, level ground. Measure the height of your vehicle. This measurement can be recorded from the center of the wheel, straight up to the top of the inner fender lip. Record the measurements below.
2. Ensure that your work space is of ade-

LF: _____ RF: _____

LR: _____ RR: _____

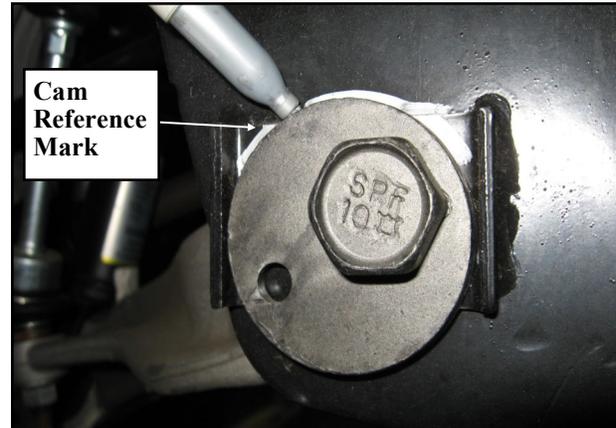
quate size and the work surface is level. Place the vehicle in neutral. Place your floor jack under the front cross member and raise vehicle. Place jack stands under the frame rails behind the front wheel wells and lower the frame onto the stands. Remove the jack and place the vehicle back in gear, set the emergency brake, and place blocks both in front of and behind the rear wheels. Remove the front wheels.

3. Remove any skid plates or debris shields from the bottom of the vehicle.
4. Unbolt the sway bar from the sway bar end links. Save the hardware for reuse.



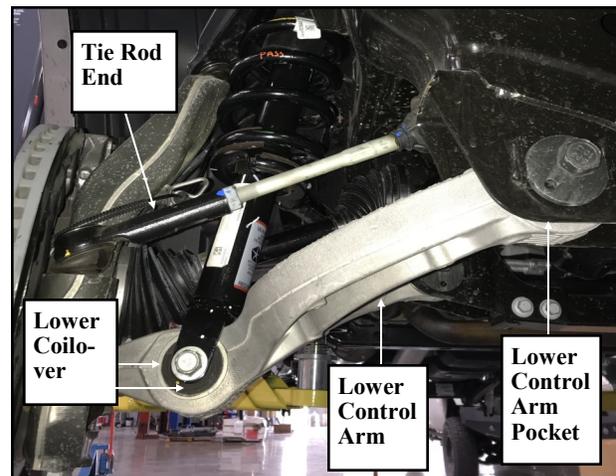
5. Remove the nut from the tie rod ends. Using the tie rod end puller, remove the tie rod from the OE spindle. Be very careful that you do not damage the dust guard or the tie rod end. Save the nut for reuse.

6. Mark the position of the cam bolts on the factory crossmember.
7. Support the lower control arm with a jack.

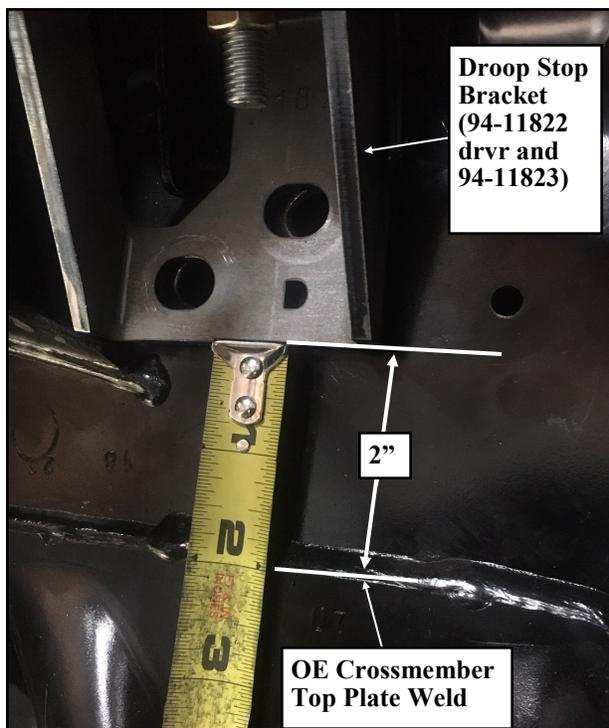


Loosen the three upper coilover mounting nuts. ***DO NOT*** loosen the middle coilover nut. Save the hardware for reuse.

8. Remove the lower coilover retaining bolt and hardware. Save the hardware for reuse.



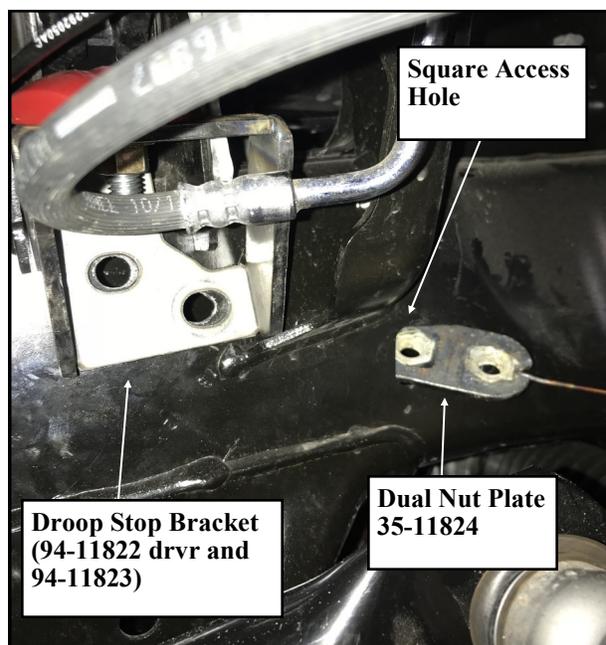
9. Remove the lower control arm bolts. Use a pry bar to remove the lower control arm out of its mounting pocket. Save the hardware for reuse.
10. Carefully remove the coilover from the vehicle.
11. Install the coilover spacer (**94-8010m**) to the coilover assembly secure using the **OE** hardware. Torque the hardware to manufacturer's specifications.



12. Install the droop stop (**15-11018**) to the droop stop bracket (**94-11822 drv** and **94-11823 pass**) and secure using the provided **3/8"** hardware.
13. Using a jack, lift the lower control arm back into the pocket and temporarily reinstall the previously removed OE lower control arm bolts. **DO NOT** tighten the lower control arm bolts.
14. Raise the jack to lift the suspension up to create enough clearance to install the droop stop bracket (**94-11822 drv** and **94-11823 pass**) under the rear of upper control arm. Support the suspension with a jack stand.
15. Position the droop stop bracket (**94-11822 drv** and **94-11823 pass**) under the rear of the upper control arm, and measure up approximately **2"** from the weld of OE cross member top plate to the bottom of the droop stop bracket. Using the bracket as a template, apply a mark in the center of the **(2)** mounting holes.
16. Remove the droop stop bracket droop stop bracket (**94-11822 drv** and **94-**

11823 pass) from the frame. Center punch the previously applied marks and drill **(2)** holes using a **1/2"** drill bit.

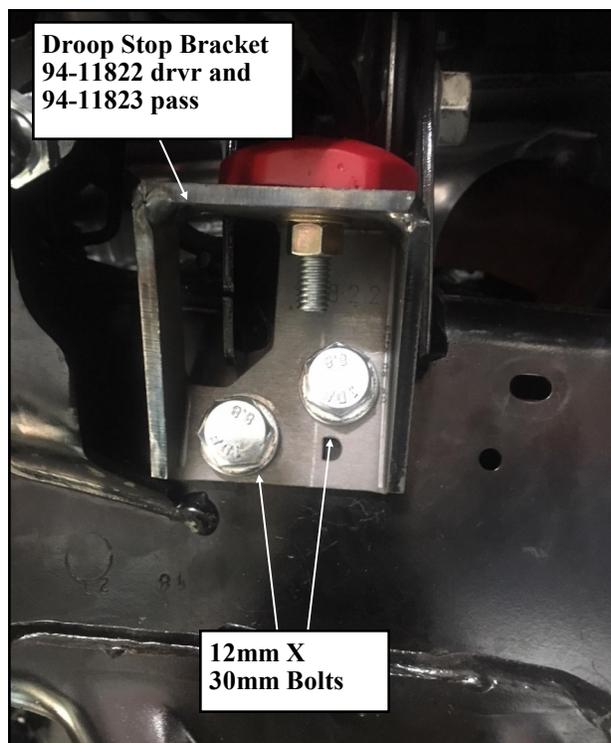
17. Insert the dual nut plate (**35-11824**) through the square hole in the frame and align with the **(2)** previously drilled mounting holes.
18. Install the droop stop bracket (**94-11822 drv** and **94-11823 pass**) to the frame and



secure using the supplied **12mm X 30mm** bolts and washers. Torque the **12mm** bolts to 55 ft./lbs.

NOTE: Fold the remainder of the dual nut plate wire out of the way or inside the frame.

19. Lower the jack under the lower control arm and remove the lower control arm



bolts. Use a pry bar to remove the lower control arm out of it's mounting pocket. Save the hardware for reuse.

20. Reinstall the coilover assembly and spacer into the stock upper mounting location. Fasten using the supplied **10mm** hardware on the top from hardware pack (**90-6317m**) torque to 45-50 ft./lbs.
21. Use a jack to raise the lower control arm into the **OE** mounting pockets and secure using the previously removed **OE** bolts. **DO NOT** tighten these bolts at this time.
22. Install the **OE** coilover retaining bolt through the lower coilover mount and control arm. Tighten bolt hand tight only at this time..

23. Reattach the **OE** sway bar end link hardware. Torque to manufacturers specifications.
24. Reattach the outer tie rod end to the steering knuckle using the **OE** nut. Torque to **55** ft./ lbs.
25. Repeat steps 4 through 24 on the remaining side of the vehicle.
26. Install your wheels and tires and lower the vehicle to the ground. Tighten the lug nuts to **120** ft./lbs.
27. With the vehicle on the ground, align the lower control arm cams to the previously applied markings and torque the lower control arm bolts and lower coilover mount bolts to **125** ft./lbs.
28. Recheck for proper installation and torque, all newly installed hardware.

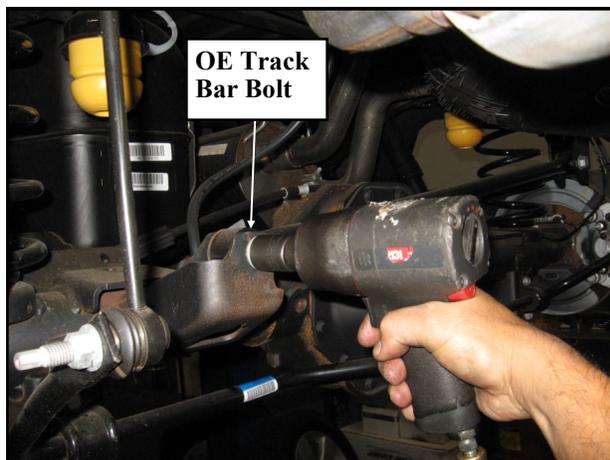
IMPORTANT! BE SURE TO BRING THE VEHICLE IMMEDIATELY TO A REPUTABLE ALIGNMENT SHOP TO BE ALIGNED.

NOTES:

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

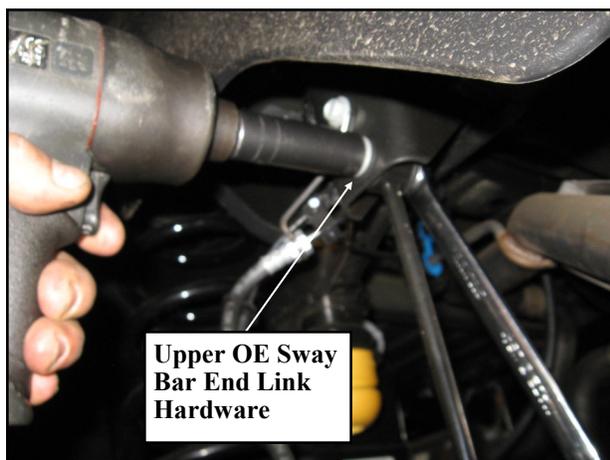
REAR INSTALLATION:

1. Ensure that your work space is of adequate size and the work surface is level. Place the vehicle in neutral. Place your floor jack under the rear axle and raise vehicle. Place jack stands under the frame rails behind the rear wheel wells and lower the frame onto the stands. Remove the jack and place the vehicle back in gear, set the emergency brake, and place blocks both in front of and behind the rear wheels. Remove the rear wheels.
2. Unbolt the track bar bolt from the axle. Save the hardware for reuse.
3. Unbolt the sway bar from the sway bar

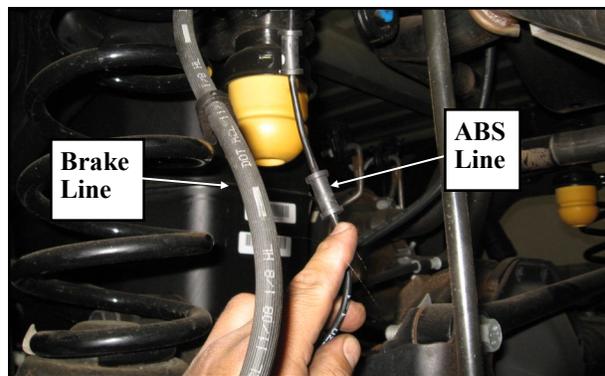


end links. Save the hardware for reuse.

4. Unclip the ABS line from the brake lines

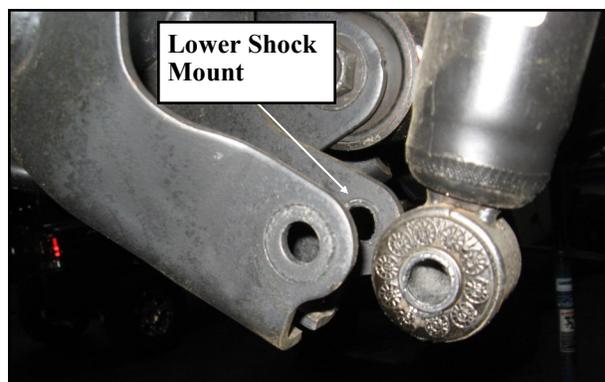


on both sides of the vehicle.



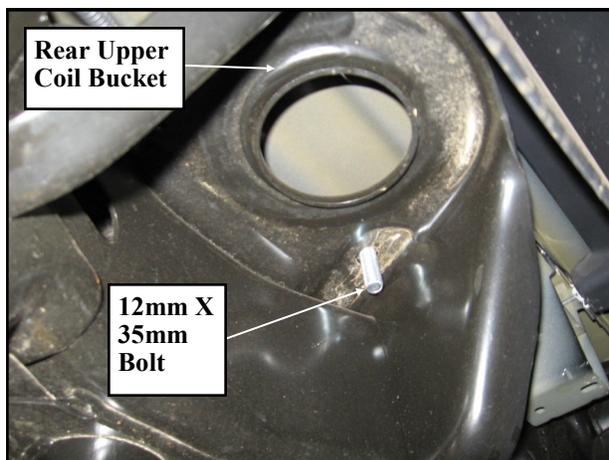
5. Carefully lower the rear axle enough to remove the coil springs from the rear spring pockets. Save the factory isolators for reinstallation.

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

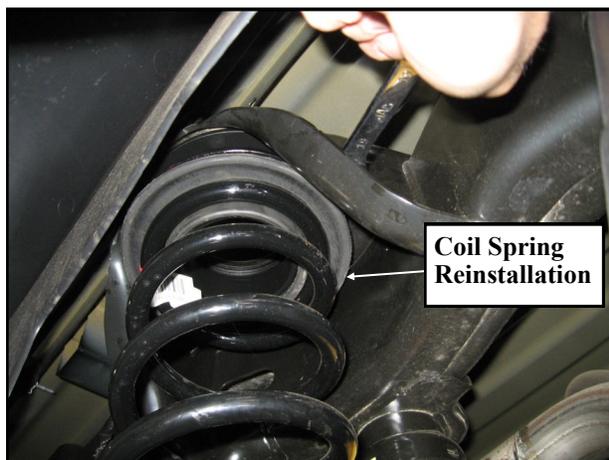


6. Install the rear coil spacer (94-11826) into the upper coil bucket by securing it with the supplied 12mm X 35mm bolt and hardware.

NOTE: Install the bolt from top of the coil bucket down.



7. Reinstall the rear spring assembly into the rear axle spring perch. Make sure the pig-tail of the spring and OE isolator properly indexed in the mounting pocket.



8. Reconnect the rear sway bar end links. Torque to manufacturers specifications.

9. Reconnect the rear lower shock mounts and install the wheels. Torque the lower shock mount bolt to 95 ft./lbs.
10. Re-clip the ABS line to the brake lines on both sides of the vehicle.
11. Lower the vehicle to the ground. Reconnect the rear track bar using the previously removed bolt. Torque the bolt to 130 ft./lbs.
12. Torque the rear lug nuts to 120 ft./lbs.
13. Recheck the torque on all bolts after 500 miles or after any off road use.

NOTE: Use thread locking compound on any bolts that had factory thread locker on them originally.

NOTES:

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

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	165	210
3/4	185	280	M18	170	240	290

1/2-13x1.75 HHCS

D T L X

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

M12-1.25x50 HHCS

D T L X

P

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

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

Safety Warning

MISUSE OF THIS PRODUCT COULD LEAD TO INJURY OR DEATH

Suspension systems or components that enhance the on and off-road performance of your vehicle may cause it to handle differently than it did from the factory. Extreme care must be used to prevent loss of control or vehicle rollover during abrupt maneuvers. Always operate your vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Failure to drive safely may result in serious injury or death to driver and passengers.

Driver and passengers must ALWAYS wear your seat belts, avoid quick sharp turns and other sudden maneuvers. PRO COMP does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your vehicle under the influence of alcohol or drugs.

Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every off-road use.

It is the responsibility of the retailer and/or the installer to review all state and local laws, with the end user of this product, related to bumper height laws and the lifting of their vehicle before the purchase and installation of any PRO COMP products. It is the responsibility of the driver/s to check their surrounding area for obstructions, people, and animals before moving the vehicle. All raised vehicles have increased blind spots; damage, injury and/or death can occur if these instructions are not followed.

Installation Warning

All steps and procedures described in these instructions were performed while the vehicle was properly supported on a two post vehicle lift with safety jacks.

Use caution during all disassembly and assembly steps to insure suspension components are not over extend-ed causing damage to any vehicle components and parts included in this kit.

Included instructions are guidelines only for recommended procedures and are not meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications.

PRO COMP recommends the use of an OE Service Manual for model/year of vehicle when disassembly and assembly of factory and related components.

Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual. Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort.

Larger tire and wheel combinations may increase leverage on suspension, steering, and related components. 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 ride height. Always measure the vehicle ride height prior to beginning installation.

Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual. Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort.

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SAEJ2492 Warning

By installing this product, you acknowledge that the suspension of this vehicle has been modified. As a result, this vehicle may handle differently than that of factory-equipped vehicles. As with any vehicle, extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, allow more time and distance for braking, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death. Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state. Consult your owner's manual, the instructions accompanying this product, and state laws before undertaking these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

Headlamp Warning

A lifted vehicle may have different headlight aim performance. PRO COMP recommends marking and recording the headlight beam position before kit installation and then adjusting, if necessary, the headlamps to the same height settings after kit installation. Set the vehicle on a level surface 10' to 15' from a solid wall or garage door. (This is a general distance with some manufacturers requiring different distances.) Note the top height of the low beam's bright spot, the top of the most intense part of the beam, for driver and passenger side. Height may vary from side to side. Repeat this procedure and adjust after lift kit is installed. Adjust if the aim is off by turning the adjusters gradually (a quarter of a turn) and looking to see where the new alignment falls. It may be easier to block one headlamp while adjusting the other. Consult the owner operation manual for procedures to adjust headlights - many automakers offer headlight aiming specs. Some states have their own specifications when it comes to headlight aim, so it's best to follow those rules when aligning headlights. FAILURE TO PERFORM THE POST INSPECTION CHECKS MAY RESULT IN VEHICLE COMPONENT DAMAGE AND/OR PERSONAL INJURY OR DEATH TO THE DRIVER AND/OR OTHERS.

Final Checks & Adjustments

Once the vehicle is lowered to the ground, check all parts which have rubber or urethane components to ensure proper torque. Torque lug nuts to the wheel manufacturer specs. Move vehicle backwards and forwards a short distance to allow suspension components to adjust. Turn the front wheels completely left then right and verify adequate tire, wheel, brake line, and ABS wire clearance. Test and inspect steering, brake and suspension components for tightness and proper operation. Inspect brake hoses and ABS lines for adequate slack at full extension, adjust as necessary. RECHECK ALL HARDWARE FOR PROPER TORQUE VALUES AFTER 500 MILES, AND THEN PERIODICALLY AT EACH SERVICE INTERVAL THERAFTER.

Vehicle Handling Warning

Increasing the height of your vehicle raises the center of gravity and can affect stability and control. Use caution on turns and when making steering corrections. Vehicles with larger tires and wheels will handle differently than stock vehicles. Take time to familiarize yourself with the handling of your vehicle.

Wheel Alignment/Headlamp Adjustment

It is necessary to have a proper and professional wheel alignment performed by a certified alignment technician. Align the vehicle to factory specifications. It is recommended that your vehicle alignment be checked after any off-road driving. In addition to your vehicle alignment, for your safety and others, it is necessary to check and adjust your vehicle headlamps for proper aim and alignment. If the vehicle is equipped with active or passive safety/collision monitoring and/or avoidance systems including, but not limited to, camera- or radar-based systems, check and adjust your vehicle's systems for proper aim and function.

PRO COMP 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.



The PRO COMP PROMISE WARRANTY

At Pro Comp, we know you have many choices when selecting products to personalize your vehicle. You should demand nothing but the highest quality available and have total confidence that the products you selected are the best in the industry. It is for these reasons that Pro Comp Suspension products are backed by the best warranty in the industry...the Pro Comp Promise!

Pro Comp promises that its products will last a lifetime or we will replace it free of charge. It's that simple! Because of our commitment to quality and manufacturing excellence, we are able to stand behind our products. FOREVER.

It is Pro Comp's Promise that if one of our suspension products breaks not due to misuse, neglect or vandalism, we will replace it. Whether you are the original purchaser or not, you can be assured that we will make it right. The Pro Comp Promise covers all suspension products including shocks and steering stabilizers. Buy Pro Comp Suspension today and enjoy it for the rest of your life!

That's our Pro Comp Promise!

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 that the Dealer / Installer explains and delivers all warning notices, warranty forms and instruction sheets included with Pro Comp product.

Warranty and Return Policy:

Pro Comp warrants its full line of products to be free from defects in workmanship and materials for the life of the product. 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.
- * Finish after 90 days.
- * Damage caused as a result of not following recommendations or requirements called out in the installation manuals.

Pro Comp Monotube 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: info@procompusa.com
Website: www.procompusa.com
Fax: (310) 747-3912
Ph: 1-800-776-0767

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

Revision Page:

11.29.22: Updated Year/Make /Model and format.