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Latest Revision

**Date:
8.5.2019**



PRO COMP SUSPENSION

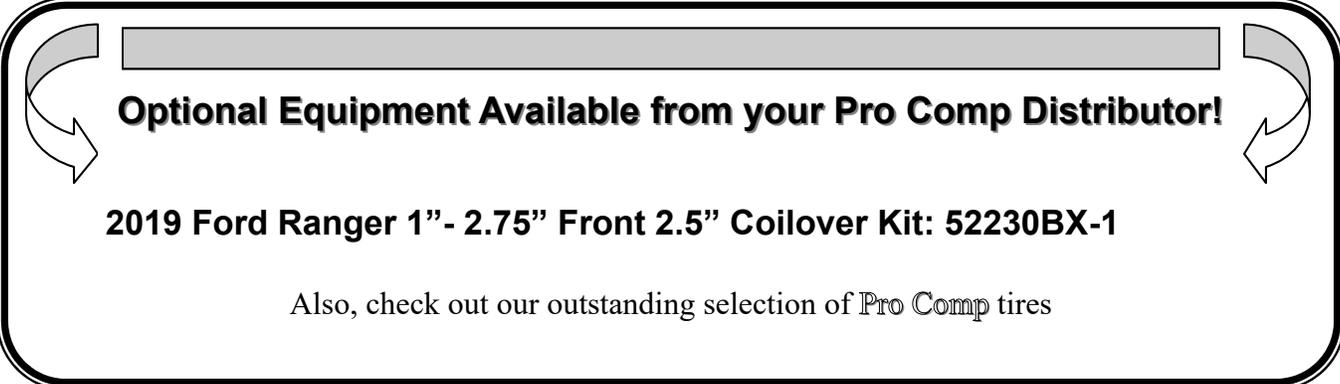
**Part# 52230BX-2
2019 Ford Ranger 0-1" Rear 2.5" Shock Kit**

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.

Introduction:

- ◆ **This installation requires a professional mechanic!**
- ◆ We recommend that you have access to a factory service manual 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 arms. 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!
- ◆ 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.
- ◆ **IT IS ADVISABLE THAT YOU HAVE HELP AVAILABLE WHEN INSTALLING THIS KIT. SOME COMPONENTS ARE HEAVY AND AWKWARD. AN ADDITIONAL SET OF HANDS IS GOOD INSURANCE AGAINST INJURY!**
- ◆ *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.*
- ◆ Pro Comp Suspension products are gas-filled and are highly pressurized. Never place any Pro Comp Suspension product in a vise or use a clamp on any Pro Comp Suspension product. Never apply heat near any Pro Comp Suspension product, and never attempt to open or repair any Pro Comp Suspension, in order to prevent serious bodily injury or death. Any attempt to misuse, misapply, modify or tamper any Pro Comp Suspension product voids any warranty and may result in serious bodily injury or death.
- ◆ **DO NOT** use impact tools for loosening or tightening fasteners. This may destroy the bolt threads.
- ◆ Suspension springs are **PRELOADED!** The suspension spring must be compressed with the assistance of an appropriate strut vise and spring compressor. The top mount must not be removed until the preload pressure is no longer present and the spring can be moved by hand, **or serious bodily injury or death may result.**
- ◆ After installing any Pro Comp Suspension product, the caster and camber must be checked and/or adjusted to comply with the vehicle manufacturers specifications. Also, the (load dependent) brake compensator and the anti-lock brake system must be checked and/or reset to comply with the vehicle manufacturers specifications. Also the headlight aim must be checked and adjusted.
- ◆ Reuse the original equipment components only if they are in good condition. Otherwise replace them with new components. Never remove the slight film of oil on the piston rod and seal.
- ◆ All mounting fasteners for struts must be securely tightened before tension is placed on the suspension system. Make sure that the bump stop and dust cover are correctly and properly fastened.
- ◆ When replacing other brands, Pro Comp Suspension shock absorbers should always be installed as a set. Installation of shock absorbers, struts and cartridges requires special tools and expert knowledge. Accordingly, installation of all Pro Comp Suspension products must be performed by a qualified suspension specialist.
- ◆ All Pro Comp Suspension products must only be used for the specific, intended application as indicated in the application guide. **Any use of any Pro Comp Suspension product other than for it's intended use may result in serious bodily injury or death.**

Part #	Description	Qty.
52230BX-2	2019 FORD RANGER 0-1" REAR 2.5" SHOCK KIT	1
90-40981-00005	PC 2.5 IFP RR RNGR	2



Optional Equipment Available from your Pro Comp Distributor!

2019 Ford Ranger 1"- 2.75" Front 2.5" Coilover Kit: 52230BX-1

Also, check out our outstanding selection of Pro Comp tires

TECH NOTES:

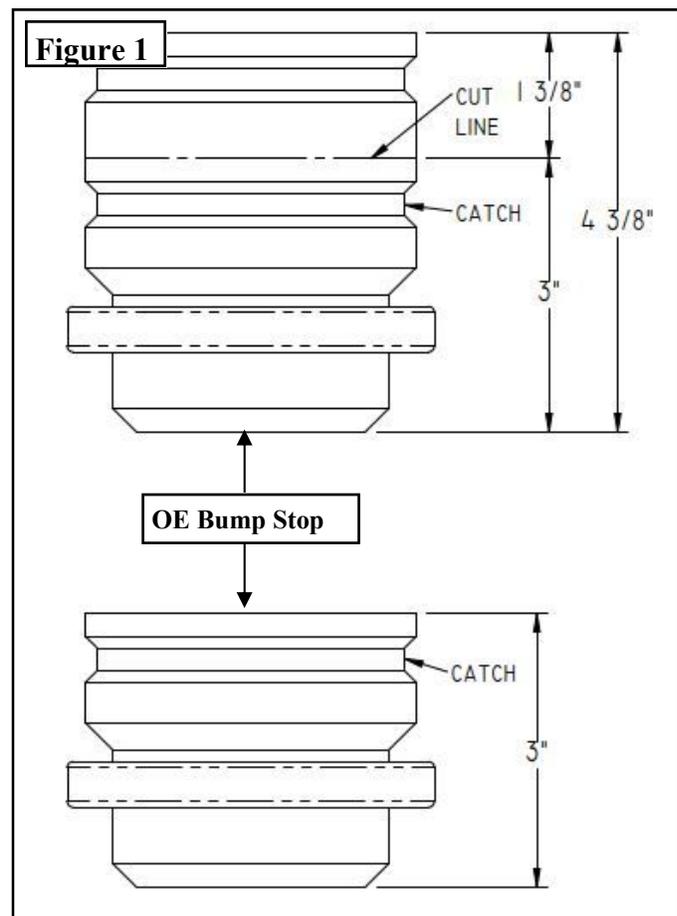
- These Pro Comp Pro Runner shock assemblies come factory charged to 125 PSI. Releasing nitrogen pressure may lead to shock malfunction and reduced ride quality. Failure caused by low nitrogen pressure is not covered under 4WP warranty.
- The Pro Comp Pro Runner shock body orientation is critical for frame clearance.
- These Pro Comp Pro Runner shock assemblies are end-user rebuildable and serviceable.
- For improved ride quality, see installation step 4

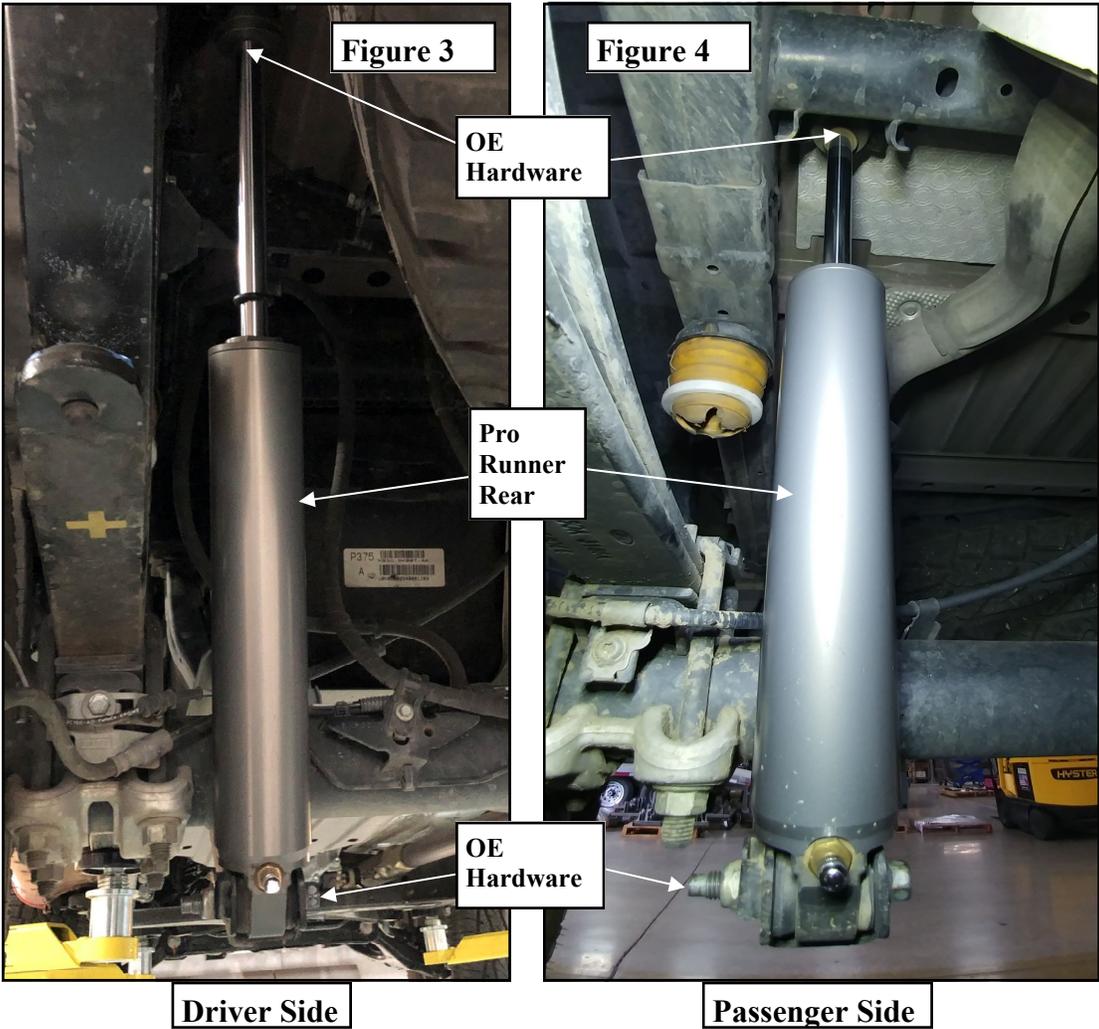
Installation:

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 rear wheels and tires.
3. Remove the shocks on both sides of the vehicle. It may be necessary that you slightly raise the axle to unload the shocks for removal.
4. The following steps are recommended for improved ride quality, but will reduce load carrying capacity slightly:
 - a. Remove the rear **OE** bumpstops from the vehicle. Measure and mark the bumpstop at **1 3/8"** making sure the will still have a catch after trimming to retain into cup. SEE FIGURE 1. Carefully cut the bumpstop along the marked line. The remaining bumpstop height should be **3"** tall. (Bumpstop original height is **4 3/8"**) Be sure the resulting cut surface is parallel to the top of the bumpstop. Then re-install the bumpstop into the frame cup. SEE FIGURE 1.
 - i. Shortening the height of the **OEM** foam bumpstop will add an additional **1 3/8"** of up-travel before engaging them. The additional up-travel improves the ride quality of the vehicle and allows the shock to perform to its full potential.
 - b. Remove **OE** leaf spring bumpers from the leaf spring tips by carefully prying them out of the leaf. This is done easiest with the suspension at full droop. SEE FIGURE 2.
 - i. NOTE: Leaf spring bumpers are designed to ramp up the spring rate for load carrying but have a negative effect on ride quality when the vehicle is unloaded. Removing them allows for a more linear spring rate which improves ride quality over **OE**. However, if consistently towing or carrying loads, we advise keeping them installed.
5. Apply red thread locker to the previously re-

moved **OE** upper and lower shock mounting hardware.

6. Install the new Pro Comp Pro Runner shocks (**90-40981-00005**), with the body down, into the **OE** upper frame mount and secure using the previously removed **OE** hardware. SEE FIGURE 3 & 4.
7. Install the new Pro Comp Pro Runner shocks (**90-40981-00005**) eyelet into the lower mount and secure using the **OE** hardware. SEE FIGURE 3 & 4.
8. Torque the **OE** shock mounting hardware to manufacturer's specifications.
9. Reinstall the wheels and tires and lower the vehicle to the ground. Torque lug nuts to manufacturer specification.
10. After 100 miles, re-check all newly installed hardware for proper torque.
11. After every off-road use, re-check all hardware for tightness.







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 MX Series 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
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PLACE
WARRANTY REGISTRATION
NUMBER
HERE: _____