



DIRECT-REPLACEMENT INSTALLATION GUIDE

FORD RANGER (2019-2023) -US MODELS ONLY

PERFORMANCE SERIES 2.0

PERFORMANCE ELITE SERIES 2.5

985-02-133 - 19-ON Ford Ranger, Front Coil-over, PS, 2.0, IFP, 4.47", 0-3" Lift
883-06-156 - Kit: 19-ON Ford Ranger, Front, 2.5 Truck PES, R/R, 4.05", 2-3" Lift, DSC
985-24-207 - 19-ON Ford Ranger, Rear, PS, 2.0, IFP, 9 .7", 0-1.5" Lift
883-26-059 - Kit: 19-ON Ford Ranger, Rear, 2.5 Truck PES, P/B, 9.55", 0-1.5" Lift, DSC



FOX products are subject to continuous development and improvement. To find the most up to date product information such as color installation manuals, videos, and FAQs please visit:

tech.ridefox.com/manuals

To locate the correct installation manual, use the 8-digit part number found on the end of the packaging box (see illustration below):



CONTENTS

INTRODUCTION	1
SUPPLIED PARTS	2
SAFETY INSTRUCTIONS	3
INSTALLATION GUIDELINES	4
FRONT SHOCK INSTALLATION	5
REAR SHOCK INSTALLATION	11
FOX FACTORY SETTINGS	12
MAINTENANCE	13
WARRANTY INFORMATION	14

INTRODUCTION



Thank you for choosing FOX direct-replacement shocks for your vehicle. FOX products are designed, tested, and manufactured by the finest professionals in the industry.

FOX recommends that you become completely familiar with the handling characteristics of your modified vehicle before operating it under rigorous conditions, helping to avoid potential rollover situations and other loss of control events. FOX further recommends that you use appropriate protective equipment at all times when operating your vehicle.

To achieve the best performance and product longevity, periodic service and maintenance is required. Please refer to the Maintenance section for more information.

IN THE BOX

- Front Shocks or Rear Shocks
- Supplied Hardware

SUPPLIED PARTS

For Performance Elite Series 883-06-156 Only

SHOCK ASSEMBLY		
FOX PN	DESCRIPTION	QTY
018-01-049	Fastener, Standard Screw [1/4-14 X 1.00 TLG] Steel, Zinc, Self-Drilling	4
026-01-195	Mounting Hardware: Universal, Under Frame, Reservoir Bracket, Steel, Black	2
803-02-089	Kit: Mounting Hardware, 2.5 Reservoir Clamp, Extruded	2

 WARNING

SAFETY INSTRUCTIONS

- FOX direct-replacement shocks are designed to fit and allow proper clearance with the stock suspension. If aftermarket suspension components are installed it is the customer's responsibility to ensure that interference between the FOX shocks and other vehicle components does not occur at any point in the shock stroke.
- FOX direct-replacement shocks should always be installed as a set for maximum performance.
- Proper installation and service procedures are essential for the safe and reliable operation of the suspension components, requiring the experience and tools specially designed for this purpose. Installation and maintenance procedures for this product must be performed by a qualified service technician, to avoid potentially unsafe vehicle handling characteristics, which may result in **SERIOUS INJURY** or **DEATH**.
- Modifying your vehicle's suspension will change the handling characteristics of your vehicle. Under certain conditions, your modified vehicle may be more susceptible to loss of control or rollover, which can result in **SERIOUS INJURY** or **DEATH**. Thoroughly familiarize yourself with the modified vehicle handling characteristics before any rigorous vehicle operation. Wear protective body gear and a helmet when appropriate. Installation of vehicle roll bars or cage is highly recommended.
- FOX direct-replacement shocks are gas-charged and are highly pressurized. Placing shocks in a vise or clamp, applying heat, or attempting to open or service the shock without the proper tools and training can result in **SERIOUS INJURY** or **DEATH**. Do not attempt to modify, puncture or incinerate a FOX direct-replacement shock absorber.
- Any attempt to misuse, misapply, modify, or tamper with any FOX product voids any warranty and may result in **SERIOUS INJURY** or **DEATH**.



WARNING

INSTALLATION GUIDES

- Always use a chassis lift for the installation of shocks, and make certain that the raised vehicle is securely attached to the lift to prevent the vehicle from slipping, falling, or moving during the installation process.
- DO NOT install any FOX product without the necessary special tools, expertise and chassis lift or you will subject yourself to the risk of SERIOUS INJURY or DEATH. If you elect to not use a chassis lift (which may result in SERIOUS INJURY or DEATH), ensure that the vehicle is: (1) on level ground, (2) that all tires on the ground during installation are blocked to prevent vehicle movement, (3) that at least two tires are on the ground at all times, and (4) that adequately secured jack stands are used to support the vehicle. NEVER get under the vehicle until you have checked to ensure that the vehicle will be stable during installation.
- FOX direct-replacement shocks are designed to fit your vehicle's shock mounts without modification except the reservoir placement on specific models and applications.
- If a preload adjustment is necessary for your application DO NOT adjust preload with the coil-over on the vehicle. Remove the coil-over from the vehicle and use a spring compressor to remove the lower spring hardware and spring. Once the spring is removed, you can adjust the preload ring. If you need to exceed the existing preload beyond 0.5 inches, you will need to go up in spring rate or get a longer spring that fits the application.

FRONT SHOCK INSTALLATION

Medium-strength thread locker (blue) is recommended on all bolts.

1. Please read the installation guidelines for instructions on how to properly lift and secure the vehicle.
2. Record the front vehicle ride height to ensure proper lift is attained after kit is installed. You will be able to make preload adjustments if needed. (Spanner wrench required) READ INSTALLATION GUIDELINES ON HOW TO PROPERLY ADJUST PRELOAD!
3. Remove front wheels from vehicle.
4. If equipped, remove the vehicle skid plate.
5. Disconnect the sway bar from the upright on both sides of the vehicle (Fig. 1)
6. Disconnect the brake line bracket from the upright. (Fig. 2)
7. Disconnect the ABS bracket from the upright. (Fig. 3)



Fig. 1: Passenger side shown

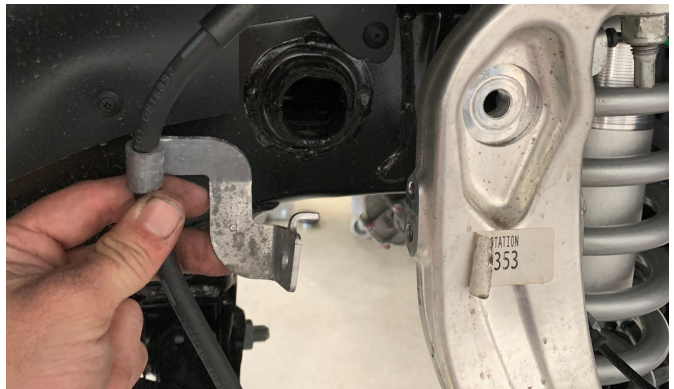


Fig. 2: Passenger side shown

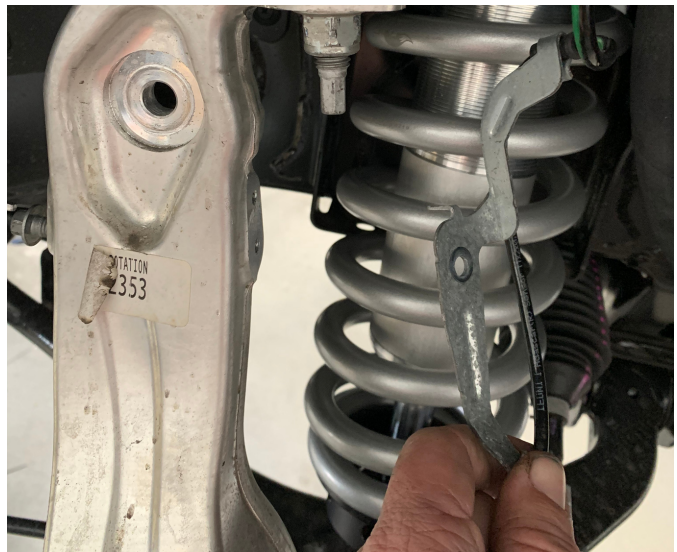


Fig. 3: Passenger side shown

8. Disconnect the outer most ABS wire clip from the upper control arm. (Fig. 4)
9. If equipped with 4x4, it is recommended that you remove the outer axle nut and push the axle out of the hub to prevent the axle from popping out of the inner cv joint. DO NOT REMOVE ENTIRE AXLE. Just push the outer portion of the axle out of the hub.
10. Disconnect the outer tie rod end from the upright. (Fig. 5)

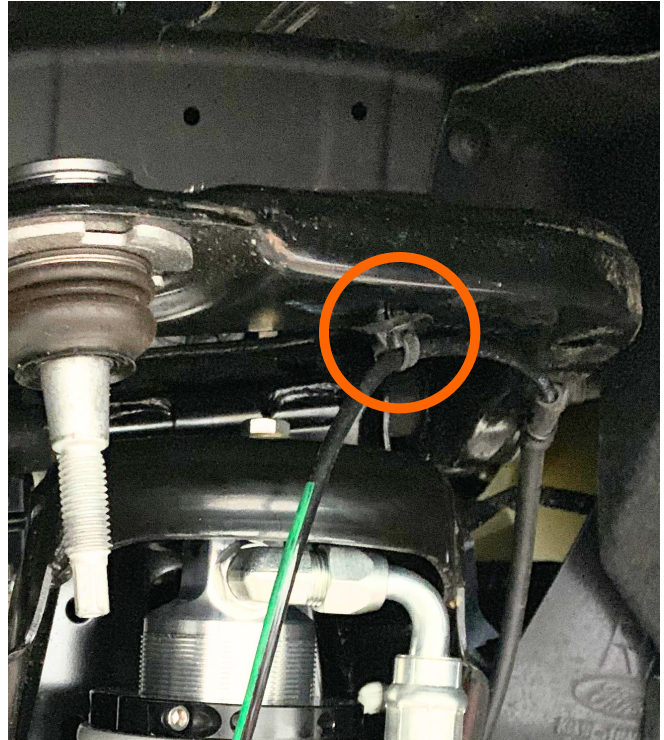


Fig. 4: Passenger side shown



Fig. 5: Passenger side shown

11. Disconnect upper control arm from the upright. (Fig. 6) Prior to releasing the nut from the upper control arm ball joint completely, be sure to support the upright so that it does not fall and cause damage.
12. Remove the top (3) nuts that secure the top of the stock coil-over assembly to the vehicle.

⚠ WARNING: DO NOT remove center nut; doing so will release the spring from the stock assembly and could result in **SERIOUS INJURY** or **DEATH**!

13. Remove the (2) lower coil-over nuts connecting the shock to the lower control arm.
14. You can now remove the stock coil-over from the vehicle.
15. Once the stock coil-over is removed, you can now install your new FOX coil-over. With remote reservoir models, make sure that the hoses are facing outward and towards the front of the vehicle (Figure 7). Connect the coil-over top hat to the vehicle with the provided washers and nuts. Tighten all three nuts to 24 FT-LBS.
16. Connect the coil-over to the lower control arm using the supplied hardware. Torque to 50 FT-LBS.



Fig. 6: Passenger side shown

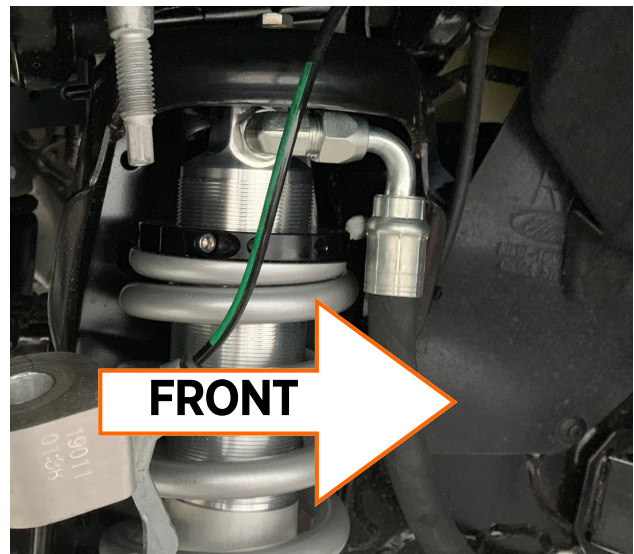


Fig. 7: Passenger side shown

17. Reinstall upper control arm to upright and reattach any wires and brake lines previously removed from the upright and upper control arm. Torque to OEM specifications.
18. If equipped with 4x4, reinstall outer axle into the hub and torque the nut to OEM specifications.
19. Reinstall the outer tie rod and the sway bar end-link to the upright and torque the nuts to OEM specifications.
20. On external reservoir models, you will need to mark the first mounting hole 7" from the crossmember and 3/4" in towards the engine. (Fig. 8 and 9)

NOTICE: If the vehicle is equipped with a plastic splash guard, remove it before installing the reservoir (Fig.10)



Fig. 8: Passenger side shown



Fig. 9: Passenger side bracket shown



Fig. 10: Remove splash guard

21. Using a 7/32" drill bit, drill a pilot hole for the first self-drilling screw. Install one side of the bracket using 1 of the 1/4" self-drilling screws. Once the first screw is installed, drill a 7/32" hole using the second bracket hole as a guide. (Fig. 11)
22. Now fully install the reservoir bracket onto the vehicle using the supplied 1/4" self-drilling screws.
23. Using two supplied billet clamps and screws, mount the reservoir to the brackets. Utilize the slots in the bracket to locate clamps. Do not feed the clamps through the slots in the brackets. (Fig. 12)

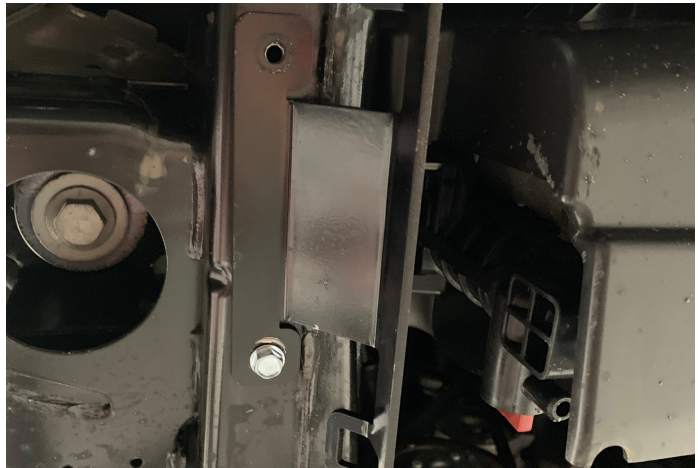


Fig. 11: Passenger side shown



Fig. 12: Reservoir clamps

24. Torque the reservoir clamp screws to 19 in-lb (2.1 N·m). (Fig. 13)
25. Installed coil-over will resemble Fig. 14 a or b.
26. If equipped, reinstall skid plate, torque to OEM specifications.
27. Reinstall front wheels and torque to OEM specifications.
28. Set vehicle back on the ground and drive it back and forth several feet to allow the suspension to settle. Now measure ride height and make adjustments if necessary. READ INSTALLATION GUIDES ON HOW TO PROPERLY ADJUST PRELOAD.
29. Check that the suspension has proper clearance by steering completely in both directions.
30. It is required to have your wheel alignment checked.

⚠ WARNING: Failure to maintain proper wheel alignment will result in premature tire wear and changes in vehicle handling.

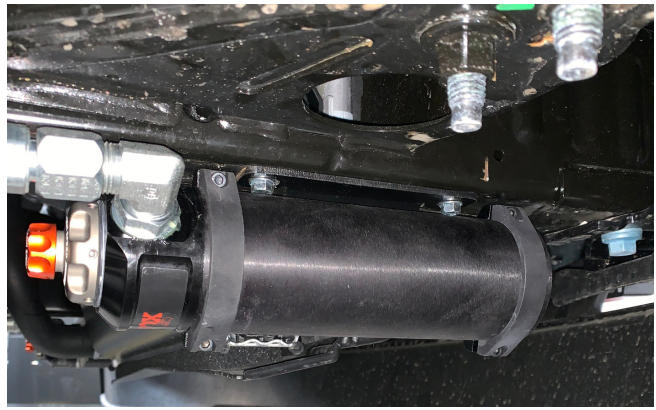


Fig. 13: Passenger side bracket shown

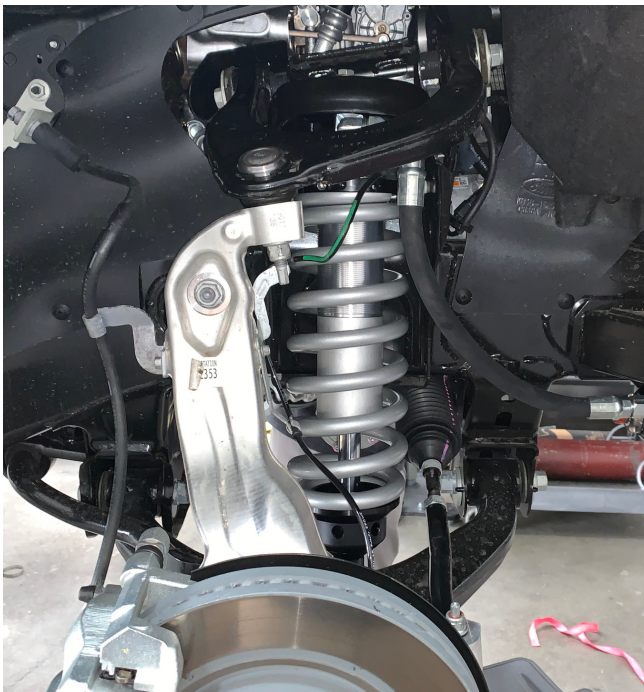


Fig. 14a: Passenger side shown. 2.5 Performance Elite Series shock



Fig. 14b: Passenger side shown. 2.0 Performance Series IFP shock

REAR SHOCK INSTALLATION

Medium-strength thread locker (blue) is recommended on all bolts.

1. Please read the INSTALLATION GUIDELINES for instructions on how to properly lift and secure the vehicle.
2. Remove stock shocks. It may be necessary to support or raise the vehicle axle in order to remove bolts and for installation of new FOX shock. (Do not discard bolts and nuts, as they will be used with your new FOX Shock.)
3. Install new FOX shock reusing OEM bolts and nuts. For piggyback reservoir models, make sure reservoir is pointing away from the axle on both driver and passenger sides (Fig. 15 a & b). Torque to OEM specifications.



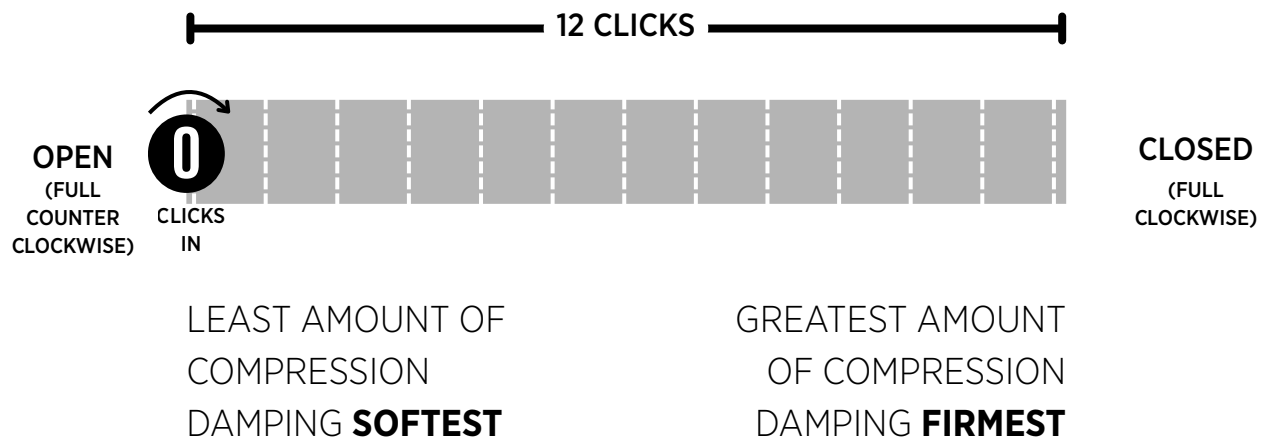
Fig. 15a: Driver side shown. 2.5 Performance Elite Series shock



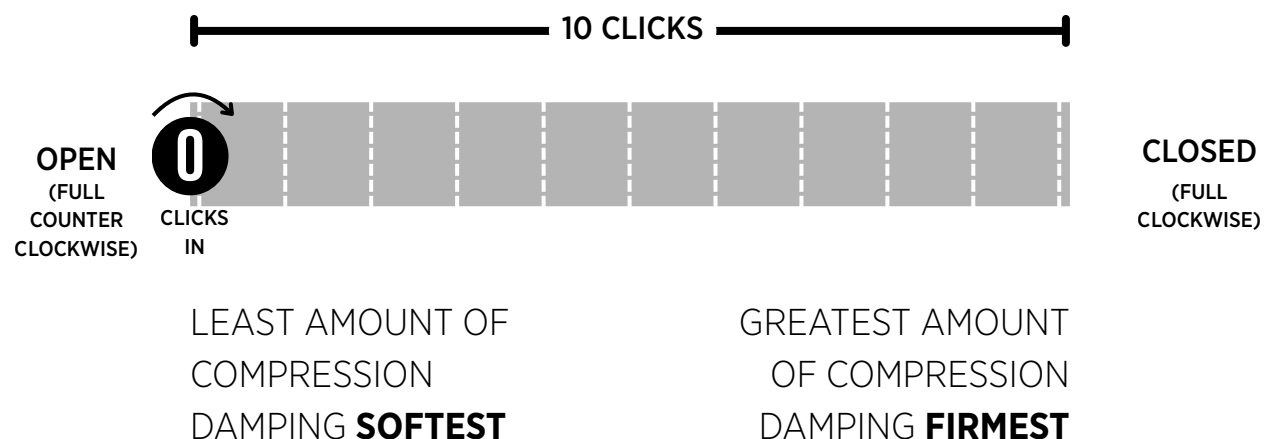
Fig. 15b: Driver side shown. 2.0 Performance Series IFP shock

FOX FACTORY SETTINGS

DSC HIGH SPEED COMPRESSION (HSC)



DSC LOW SPEED COMPRESSION (LSC)



FOR MORE INFORMATION, VISIT RIDEFOX.COM AND SEARCH FOR "HOW TO ADJUST DSC FACTORY SETTINGS"

MAINTENANCE

PROPER INSPECTION AND MAINTENANCE IS ESSENTIAL TO MAINTAIN THE PERFORMANCE AND RELIABILITY OF YOUR SHOCK ABSORBERS.

To avoid corrosion, you should keep the shocks and springs clean, free of dirt and moisture. The wiper seal will clean deposits from the shaft, but the shock won't necessarily fully compress every time. This means you could accumulate dirt at the bottom of the shaft and underneath the jounce bumper. Make sure you clean these areas completely to prevent shaft corrosion. Avoid using a high-pressure washer near the shaft seals or adjusters, as this could drive dirt inside the shock.

Make sure the ends of the spring and shock threads are clean and free of dirt before adjusting the preload ring. This will make the adjustment easier and reduce wear.

Ideally, the shocks should be clean around the adjusters. Use a small amount of contact cleaner before making adjustments will keep these parts clean and operating smoothly for years.

NOTICE: Keep the shock and spring clean and free of dirt or water to avoid corrosion. Keep the shock shaft clean and free of mud. Avoid using a high-pressure washer near the shaft seals and adjusters. Before adjusting preload or the crossover ring, clean the threads of the shock body for easier adjustment and mitigating wear.

FOX SERVICE AND UPGRADES

HAVE YOUR FOX SHOCKS SERVICED BY FOX TECHNICIANS. CALL OUR SERVICE CENTER AT 619.768.1800 TO GO OVER THE SERVICE AND UPGRADE OPTIONS AVAILABLE FOR YOUR PRODUCT. ONCE YOU'VE SETUP YOUR SERVICE AND/OR UPGRADES YOU WILL RECEIVE A RETURN AUTHORIZATION NUMBER AND SHIPPING INSTRUCTIONS.

SERVICE MENUS AND PRICING

visit ridefox.com/service



WARNING: Cancer and reproductive harm - www.P65Warning.ca.gov

WARRANTY INFORMATION

FOX LIMITED WARRANTY

FOX Factory, Inc., a Georgia corporation having an office at 750 Vernon Way, Suite 101, El Cajon, CA 92020 ("FOX"), makes the following LIMITED WARRANTY with respect to its suspension products:
LIMITED ONE (1) YEAR WARRANTY ON SUSPENSION PRODUCTS.

Subject to the limitations, terms and conditions hereof, FOX warrants, to the original retail owner of each new FOX suspension product, that the FOX suspension product, when new, is free from defects in materials and workmanship. Unless otherwise required by law, this warranty expires one (1) year from the date of the original FOX suspension product retail purchase from an authorized FOX dealer or from a FOX authorized Original Equipment Manufacturer where FOX suspension is included as original equipment on a purchased vehicle. If law requires a warranty duration of greater than one (1) year, then, subject to the other provisions hereof, this warranty will expire at the end of the minimum warranty period required by such law.

TERMS OF WARRANTY

This warranty is conditioned on the FOX suspension product being operated under normal conditions and properly maintained as specified by FOX. This warranty is only applicable to FOX suspensions purchased new from an authorized FOX source and is made only to the original retail owner of the new FOX suspension product and is not transferable to subsequent owners. This warranty is void if the FOX suspension product is subjected to abuse, neglect, improper or unauthorized repair, improper or unauthorized service or maintenance, alteration, modification, accident or other abnormal, excessive, or improper use.

Should it be determined by FOX in its sole and final discretion, that a FOX suspension product is covered by this warranty, it will be repaired or replaced, by a comparable model, at FOX's sole option, which will be conclusive and binding. THIS IS THE EXCLUSIVE REMEDY UNDER THIS WARRANTY. ANY AND ALL OTHER REMEDIES AND DAMAGES THAT MAY OTHERWISE BE APPLICABLE ARE EXCLUDED, INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR PUNITIVE DAMAGES.

This limited warranty does not apply to normal wear and tear, malfunctions or failures that result from abuse, improper assembly, neglect, alteration, improper maintenance, crash, misuse or collision. This limited warranty gives the consumer specific legal rights. The consumer may also have other legal rights which vary from state to state or country to country. Some states and countries do not allow the exclusion or limitation of incidental or consequential damages or warranties, and if dictated by law the above limitations or exclusions may not apply to you. If it is determined by a court of competent jurisdiction that a certain provision of this limited warranty does not apply, such determination shall not affect any other provision of this limited warranty and all other provisions shall remain in full effect.

THIS IS THE ONLY WARRANTY MADE BY FOX ON ITS SUSPENSION PRODUCTS AND COMPONENTS, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION HEREIN. ANY WARRANTIES THAT MAY OTHERWISE BE IMPLIED BY LAW INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED.

CONTACT

FOX RACING SHOX

A DIVISION OF FOX FACTORY INC.

SALES

750 Vernon Way, Suite 101

El Cajon, CA 92020

1.800.FOX.SHOX (1.800.369.7469)

orsales@ridefox.com

SERVICE

13461 Dogwood Drive

Baxter, MN 56425

1.800.FOX.SHOX (1.800.369.7469)

servicemn@ridefox.com

