



**DIRECT-REPLACEMENT  
INSTALLATION GUIDE**

**RAM 2500/3500**

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# **PERFORMANCE 2.0/2.5 PERFORMANCE ELITE 2.5, DUAL SPEED COMPRESSION**

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2014-ON RAM 2500/3500 Front and Rear  
2.0 Performance Series  
2.5 Performance Series  
2.0 Performance Series Remote Reservoir  
2.5 Performance Elite Series

605-01-271 REV E

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# INTRODUCTION

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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 Service and Upgrades section for more information.

## IN THE BOX

- Front Shocks and Rear Shocks
- Supplied Hardware
- Installation Guide

# FRONT SHOCK SUPPLIED PARTS

2.0 PERFORMANCE SERIES REMOTE RESERVOIR HARDWARE			
FOX PN	DESCRIPTION	QTY	NOTES
018-04-012-A	Fastener, Standard: Bolt [3/8-12 X 3/4 TLG] Hex Head, Self Tapping	6	Bracket to frame fastener
026-01-078	Driver Side Bracket	1	
026-01-079	Passenger Side Bracket	1	
803-02-088	Kit: Mounting Hardware, 2.0 Reservoir Clamp, Extruded	2	Reservoir to bracket clamps

2.5 PERFORMANCE ELITE SERIES REMOTE RESERVOIR HARDWARE			
FOX PN	DESCRIPTION	QTY	NOTES
018-04-012-A	Fastener, Standard: Bolt [3/8-12 X 3/4 TLG] Hex Head, Self Tapping	6	Bracket to frame fastener
026-01-078	Driver Side Bracket	1	
026-01-079	Passenger Side Bracket	1	
803-02-089	Kit: Mounting Hardware, 2.5 Reservoir Clamp, Extruded	2	Reservoir to bracket clamps

# REAR SHOCK SUPPLIED PARTS

2.0 PERFORMANCE SERIES REMOTE RESERVOIR HARDWARE			
FOX PN	DESCRIPTION	QTY	NOTES
803-02-080	Kit: 2.0 Reservoir Holding Clamp, Heritage Logo	2	Clamps reservoir to shock body

 **WARNING**

# SAFETY INSTRUCTIONS

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- Installation requires two people for safety purposes.
- 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 GUIDELINES

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- 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.

# FRONT SHOCK INSTALLATION

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## PREPARATION

**NOTICE:** Medium-strength thread-lock (blue) is recommended on all bolts.

**⚠ WARNING:** For safety, two people are recommended for this procedure to prevent any injury.

**NOTICE:** The images in this manual are for reference only, and may not depict your exact parts or components. For the latest instructions, visit [www.tech.ridefox.com/manuals](http://www.tech.ridefox.com/manuals) or talk to your dealer.

## STOCK SHOCK REMOVAL

1. Remove both front wheels from the vehicle.
2. Remove the stock shocks. Do not discard the lower stock hardware, as it will be used with your new FOX shock.

## FOX FRONT SHOCK INSTALL

**⚠ WARNING:** For safety, two people are recommended for this installation procedure to prevent any injury.

1. Install the new FOX shock. For models with an external reservoir, make sure the hoses are facing outward and the reservoir is toward the front of the vehicle (Fig. 1).
2. Connect the shock to the upper mount with the supplied stem mount washer and bushing on each side. Tighten the nut until 5/8" of the total stem is showing.
3. Connect the shock to the lower mount, reusing the stock hardware. Torque to OEM specification.
4. For remote reservoir models, install the supplied reservoir brackets onto the vehicle frame as shown. Using a 21/64" drill bit, drill a pilot hole 4.5" to the right of and 0.5" below the bottom corner of the shock tower weld. Then, install the supplied 3/8" self-tapping screw (Fig. 2).

**NOTE:** Some fender liner trimming or removal may be required for proper reservoir fitment.

**NOTE:** Distances in Figure 2 are not rigid and can float 3/4" in any direction. Use the best location in this area to ensure all reservoir components do not contact vehicle harnesses and/or tires while steering in both compression and droop conditions.



Fig. 1: Hoses facing outward and reservoir toward front of vehicle (passenger side shown)

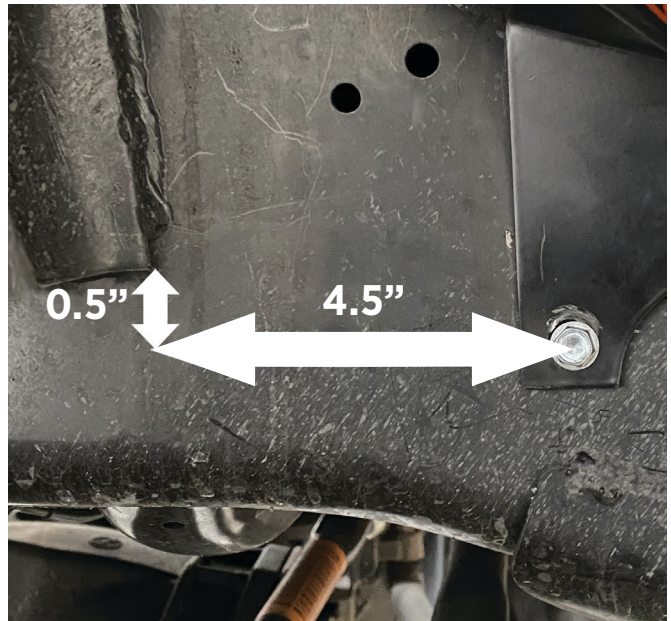


Fig. 2: Measure for the pilot hole (passenger side shown)

5. Once installed ensure that the bracket is straight and drill the remaining 2 pilot holes using a 21/64" drill bit. Install the 2 remaining 3/8" self tapping screws.
6. Using two supplied billet clamps and screws, mount the reservoir to the bracket. Utilize the slots in the bracket to locate the clamps. Torque the (4) four socket head cap screws to 19 in-lb. (Fig. 3)  
**NOTE:** Do not feed the clamps through the slots in the brackets.
7. Repeat this entire procedure on both sides of the vehicle.
8. Check that suspension has proper clearance by steering in both directions.
9. Reinstall the front wheels and torque to OEM specifications.



Fig. 3: Mount reservoir to bracket (passenger side shown).

# REAR SHOCK INSTALLATION

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## PREPARATION

**⚠ WARNING:** For safety, two people are recommended for this procedure to prevent any injury.

**NOTICE:** Medium-strength thread-lock (blue) is recommended on all bolts.

**NOTICE:** The images in this manual are for reference only, and may not depict your exact parts or components. For the latest instructions, visit [www.tech.ridefox.com/manuals](http://www.tech.ridefox.com/manuals) or talk to your dealer.

1. Go to either the **RAM 2500** (page 9) or the **RAM 3500** (page 11) FOX Rear Shock Install section, depending on your model.

# RAM 2500 FOX REAR SHOCK INSTALLATION

## STOCK SHOCK REMOVAL

1. Securely support the suspension with a jack or other support to relieve the spring force acting on the shock mounts.

**⚠️ WARNING:** HIGH SPRING TENSION! The suspension spring will engage and can cause the vehicle to fall from the jack. Springs under tension can store a significant amount of energy, and if released unexpectedly, they can cause damage, SERIOUS INJURY or DEATH.

2. Remove the lower and then the upper bolts to remove the stock shock. It may be necessary to raise or lower the vehicle axle to remove the bolts and for installation of your new FOX rear shock. Do not discard bolts and nuts, as they will be used with your new FOX rear shock.
3. Before installing your new FOX shock, remove the parking brake line bracket (Fig. 4). It may also be necessary to temporarily loosen the bolt on top of the rear differential (Fig. 5).



Fig. 4: Remove parking brake line (RAM 2500 passenger side shown)

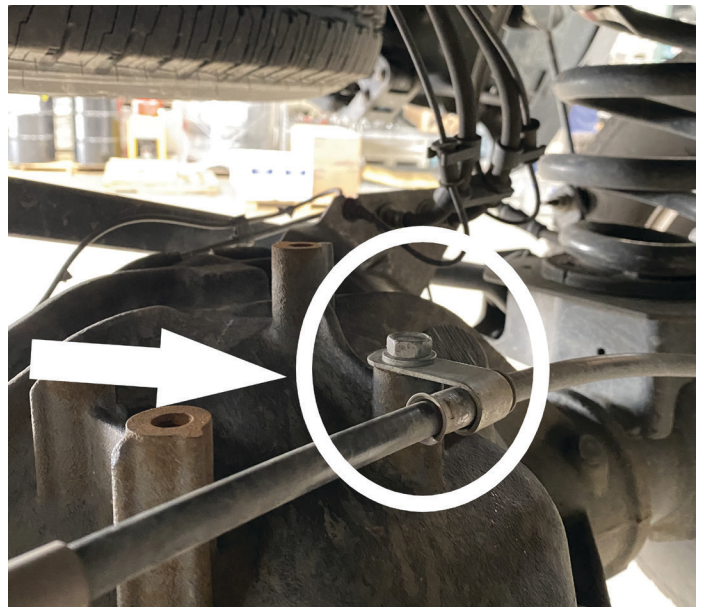


Fig. 5: The bolt on top of the rear differential (RAM 2500 passenger side shown)

## FOX REAR SHOCK INSTALL

4. Connect shock to upper mount with supplied stem mount washer and bushing on each side. Tighten nut until 5/8" of total stem is showing.
5. Install your new FOX shock into the lower mount reusing the stock hardware. Torque to OEM specification (Fig. 6).

**NOTE:** Ensure that the shock is installed with the body down and the reservoir facing the front of the vehicle.

**NOTE:** For Performance Series Remote Reservoir models, use the provided clamp to secure the reservoir to the shock body, ensuring that it will not contact any other components during shock travel. Use high-strength thread locker and torque to 12 ft-lb (Fig. 7)

6. If applicable, tighten the bolt on top of the rear differential (Fig. 5).
7. Reinstall the wheels and torque to OEM specifications.
8. Set the vehicle back on the ground and drive back and forth several feet to allow the suspension to settle.



Fig. 6: Install FOX shock (RAM 2500 passenger side shown)



Fig. 7: Performance Series clamp.

# RAM 3500 FOX REAR SHOCK INSTALLATION

## STOCK SHOCK REMOVAL

1. Securely support the suspension with a jack or other support to relieve the spring force acting on the shock mounts.

**⚠ WARNING:** HIGH SPRING TENSION! The suspension spring will engage and can cause the vehicle to fall from the jack. Springs under tension can store a significant amount of energy, and if released unexpectedly, they can cause damage, SERIOUS INJURY or DEATH.

2. Remove the spare tire from the vehicle.
3. Remove the lower and then the upper bolts to remove the stock shock. It may be necessary to raise or lower the vehicle axle to remove the bolts and for installation of your new FOX rear shock. Do not discard bolts and nuts, as they will be used with your new FOX rear shock.

## FOX REAR SHOCK INSTALL

1. Install your new FOX shock reusing the stock hardware. Torque to OEM specification (Fig. 8).

**NOTE:** For Performance Series Remote Reservoir models, use the provided clamp to secure the reservoir to the shock body, ensuring that it will not contact any other components during shock travel. Use high-strength thread locker and torque to 12 ft-lb (Fig. 7).

2. Re-install the spare tire.
3. Reinstall the wheels and torque to OEM specifications.
4. Set the vehicle back on the ground and drive back and forth several feet to allow the suspension to settle.

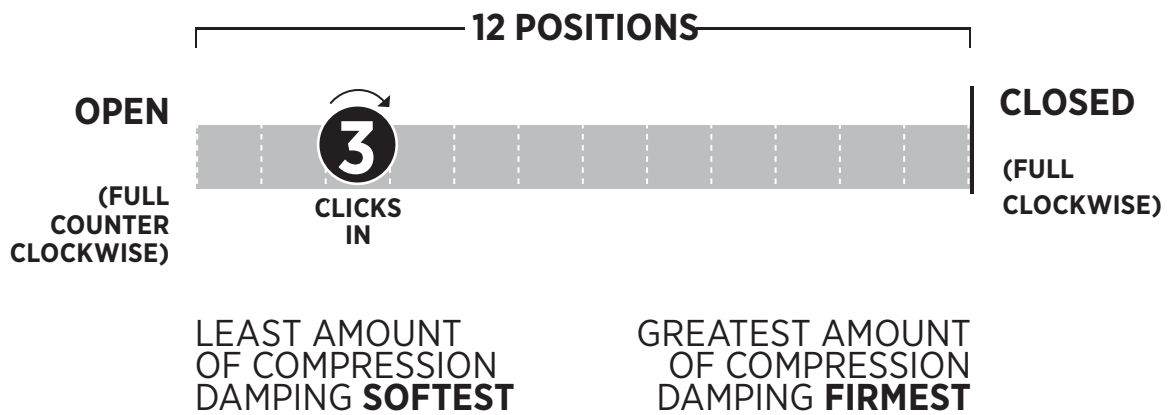


Fig. 8: Install FOX shock (RAM 3500 passenger side shown)

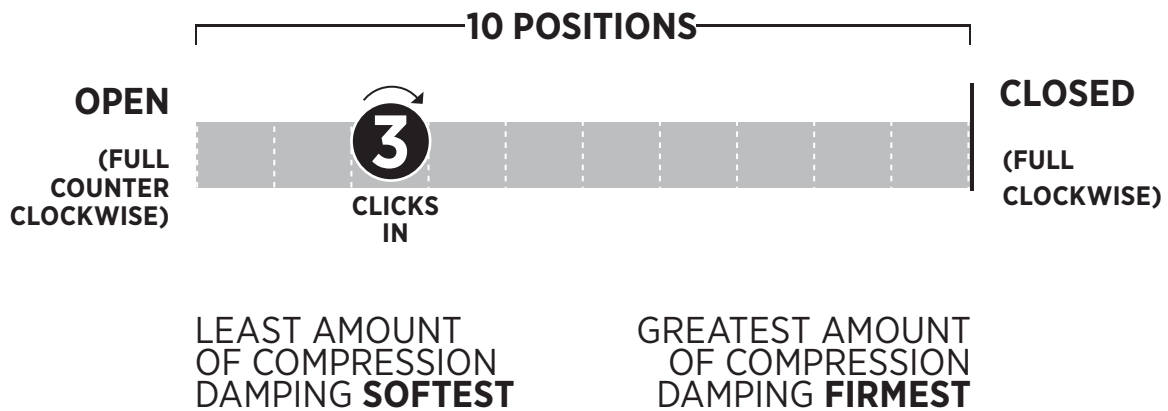
# FOX FACTORY SETTINGS

## DUAL SPEED COMPRESSION (DSC) ADJUSTER SETTINGS

### DSC HIGH SPEED COMPRESSION



### DSC LOW SPEED COMPRESSION



# MAINTENANCE

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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

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**WARNING: Cancer and Reproductive Harm –**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# WARRANTY INFORMATION

## FOX LIMITED WARRANTY

FOX Factory, Inc., a Georgia corporation having an office at 6634 Highway 53 Braselton, GA 30517 (“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

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A DIVISION OF FOX FACTORY INC.

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