



**DIRECT-REPLACEMENT
INSTALLATION GUIDE**

**ISUZU D-MAX/MAZDA BT-50
(2020-ON)**

PERFORMANCE SERIES 2.0

985-02-159 - 20-ON Isuzu D-max Front Coilover, PS, 2.0, IFP, 5.2", 1-3" Lift

985-24-214 - 20-ON Isuzu D-max/Mazda BT-50 Rear, PS, 2.0, IFP, 0-2" Lift

CONTENTS

INTRODUCTION	1
SUPPLIED PARTS	2
SAFETY INSTRUCTIONS	3
INSTALLATION GUIDELINES	4
FRONT SHOCK INSTALLATION	5
REAR SHOCK INSTALLATION	9
MAINTENANCE	11
WARRANTY INFORMATION	12
CONTACT	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 the Service and Upgrades section for more information.

IN THE BOX

- Front Shocks and Rear Shocks
- Supplied Hardware

SUPPLIED PARTS

FRONT SHOCK ASSEMBLY			
FOX PN	DESCRIPTION	QTY	NOTES
985-02-159	FRONT SHOCK 2.0	1	N/A

SWAY BAR RELOCATION BLOCK			
FOX PN	DESCRIPTION	QTY	NOTES
803-02-353	SWAY BAR RELOCATION BLOCK	1	Shifts the sway bar position downward and forward
019-01-168	SCREW	1	Fastens sway bar relocation block to the vehicle frame
019-01-336	SCREW	1	Fastens the sway bar to the sway bar relocation block

REAR SHOCK ASSEMBLY			
FOX PN	DESCRIPTION	QTY	NOTES
985-24-214	REAR SHOCK 2.0	1	N/A

 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 GUIDELINES

- 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.

FRONT SHOCK INSTALLATION

PREPARATION

1. Please read the installation guidelines on page 5 for instructions on how to properly lift and secure the vehicle.
2. Record the front vehicle ride height to ensure the proper lift is attained after kit is installed. READ INSTALLATION GUIDELINES ON HOW TO PROPERLY ADJUST PRELOAD.

NOTICE: Medium-strength thread-lock is recommended on all bolts.

NOTICE: The spring preload is set by FOX to last the life of the product. If any preload is added, a bumpstop spacer must be installed to prevent coilbind and to preserve spring life.

STOCK SHOCK REMOVAL

1. Remove both front wheels from the vehicle.
2. Detach the tie rod end at the spindle steering arm on both sides of the Vehicle (Fig. 1).
3. Disconnect the sway bar end link on both sides of the vehicle (Fig. 2).
4. Take off the nut connecting the upper control arm (UCA) to the upright (Fig. 3). Tap the ball joint stem with a hammer to break it free. Carefully detach the UCAs on both sides of the vehicle.

⚠ CAUTION: The UCA has spring tension and must be disconnected carefully to avoid minor injury. Wear safety glasses and keep hands and body parts clear of the UCAs.

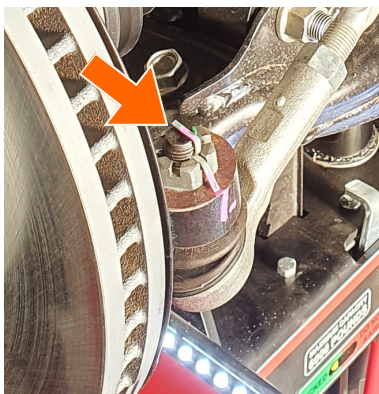


Fig. 1: Tie rod end.

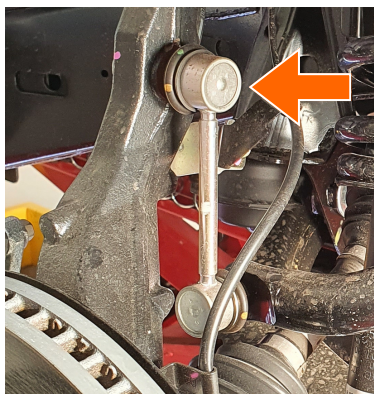


Fig. 2: Sway bar end link.

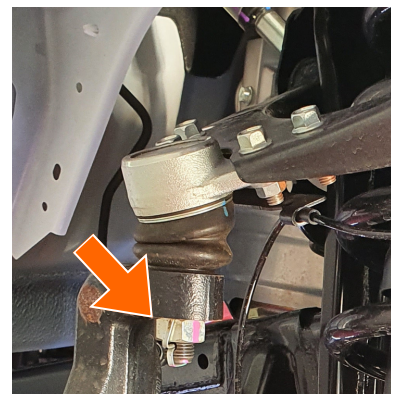


Fig. 3: Disconnect UCA.

STOCK SHOCK REMOVAL

1. Remove the three top hat nuts that secure the stock shock assembly to the vehicle (Fig. 4).

⚠ WARNING: DO NOT remove the center nut. Removal of the center nut will release the spring from the stock assembly and may result in SERIOUS INJURY or DEATH!

2. Take off the bolt connecting the shock to the lower control arm (Fig. 5). Remove the stock shock assembly.

NOTICE: Do not discard any OEM bolts, many are reused with the new FOX shock assembly.

3. If installing aftermarket UCA, do that now. Follow the company's required specifications. After installation, continue to FOX SHOCK INSTALL.
4. Remove sway bar bolts on both sides of the vehicle (Fig. 6) and drop sway bar away from vehicle frame to allow for install of sway bar relocation block kit.



Fig. 4: Remove the three top hat nuts. Do NOT remove the center nut.

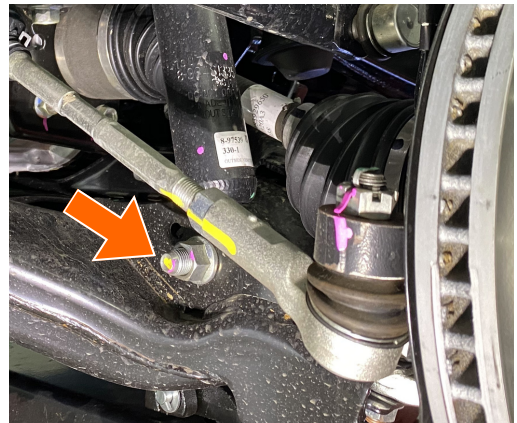


Fig. 5: Remove the bolt from the lower control arm.

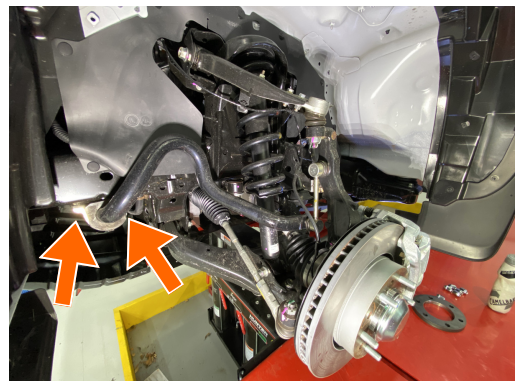


Fig. 6: Unbolt sway bar from frame.

FOX SHOCK INSTALL

1. Install sway bar relocation block onto frame in orientation shown using "block bolts". Torque to 39 ft-lbs.
2. Install sway bar onto sway bar relocation block using "sway bar bolts" and torque to 39 ft-lbs.
3. Install the new shock assembly in the proper orientation for your shock. Loosely install the provided top hat nuts, washers, and OEM lower mount bolt. Make sure the FOX logo on the logo ring and body decal faces outboard (Fig. 8).
4. Once the shock is oriented, torque the top hat nuts to 24 ft-lbs. Torque the lower mount bolt to OEM specification.
5. Reattach the UCA to the upright with the ball joint bolt and torque to OEM specification or the UCA manufacturer's specs (Fig. 9).

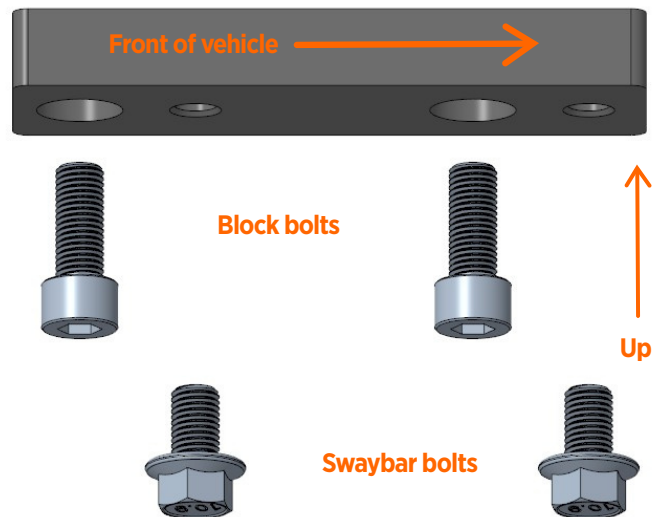


Fig 7: Install sway bar relocation blocks.



Fig 8: The FOX logo faces outboard



Fig 9: Reattach the UCA to the upright.

6. Reinstall the tie rod end (Fig. 10) and sway bar end link (Fig. 11). Torque all hardware to OEM specification. Secure the tie rod end link's castle nut with a new cotter pin.

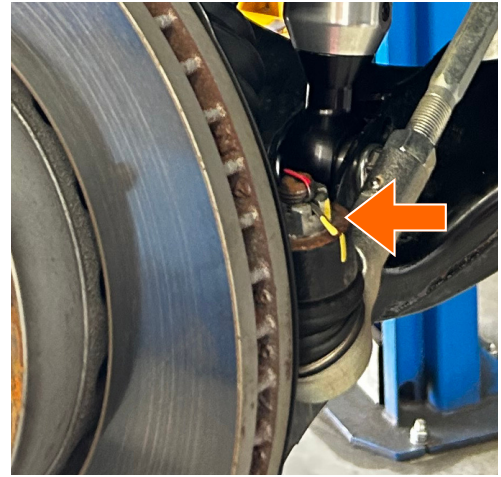


Fig 10: Tie rod end.

CHECK AND FINAL DETAILS

1. Reinstall the wheels and torque to OEM specifications.
2. Set the vehicle back on the ground and drive back and forth several feet to allow the suspension to settle. Now measure ride height and adjust if necessary. READ INSTALLATION GUIDELINES ON HOW TO PROPERLY ADJUST PRELOAD.
3. Check that the suspension has proper clearance by steering the wheels completely in both directions.
4. Measure the vehicle's ride height and adjust if necessary.
5. It is highly recommended your wheel alignment is checked.

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

NOTICE: The vehicle's ride height is set for approximately 2" of lift. If more lift is desired, up to 0.56" preload can be added or removed by removing the spring, loosening the pinch bolt, and spinning the preload collar. Additionally, 0.28" of preload added is equivalent to about a 0.5" of ride height change.

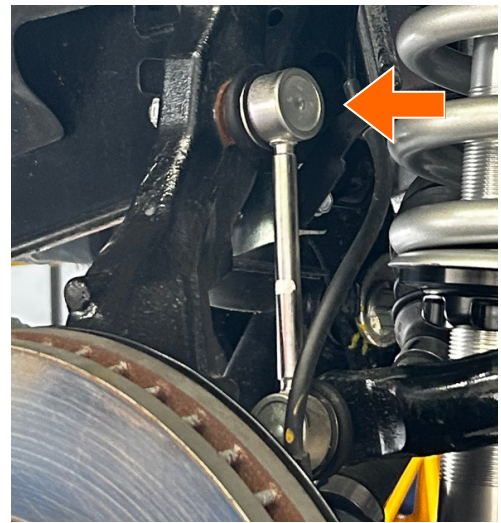


Fig 11: Sway bar end link.

REAR SHOCK INSTALLATION

NOTICE: Medium-strength thread-lock is recommended on all bolts.

⚠ WARNING: Please read the Installation guidelines of this manual for instructions on how to properly lift and secure the vehicle.

STOCK SHOCK REMOVAL

1. Remove the rear wheels from the vehicle and support the rear axle.
2. Remove the upper and lower shock nuts. (Fig 12).
3. Remove the rear shocks from the vehicle.

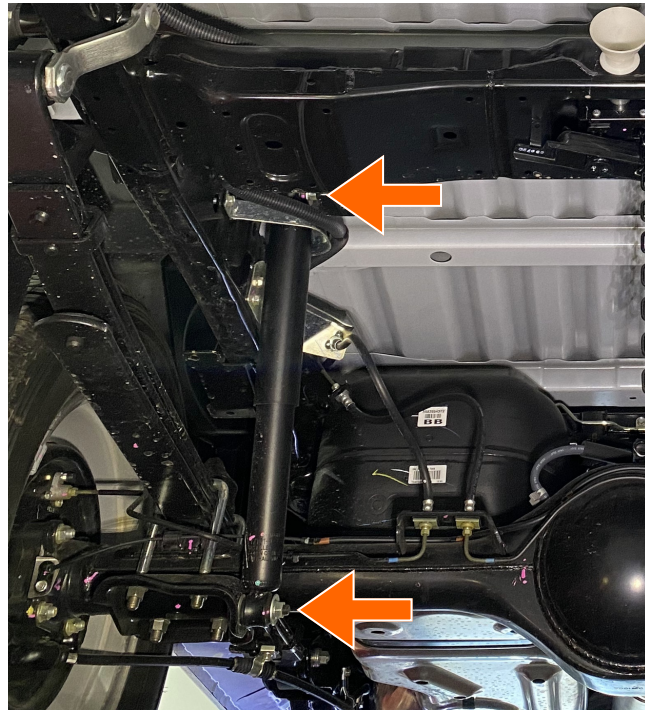


Fig 12: Remove upper and lower shock nuts.

FOX SHOCK INSTALL

NOTICE: To ease install, it is recommended the inside of the bushings and/or shock mount studs are lubricated with synthetic grease. Do NOT use petroleum-based or lithium greases as these will cause damage to the bushings.

1. Slide FOX shock onto shock mounts.
2. Re-install OE nuts and torque to OEM specification

CHECK AND FINAL DETAILS

1. Reinstall the wheels and torque to OEM specifications.



Fig 13: Rear FOX shock installed

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 or brake 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 OFF-ROAD AND TRUCK 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.

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

WARRANTY INFORMATION

FOX Factory, Inc., a California corporation having offices at 2055 Sugarloaf Circle, Suite 300, Duluth, GA 30097 (“FOX”), makes the following LIMITED WARRANTY with respect to its suspension products:

LIMITED (LIFETIME) WARRANTY ON 2.0 & 2.5 PERFORMANCE SERIES PURCHASED AFTER 3/30/2025 (EXCLUDING SPORTS CAR SHOCKS & 2.0 PERFORMANCE SERIES REMOTE RESERVIOR SHOCKS)

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. (SEE TERMS OF WARRANTY)

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.

LIFETIME WARRANTY ON UPPER CONTROL ARMS

Additionally, Fox Factory, Inc. offers a lifetime warranty except for (i) all serviceable components of the Upper Control Arms including spherical bearings, rod ends, other fabricated hardware and (ii) appearances and finishes based on issues with workmanship. Serviceable components and appearances/finishes are limited to a twelve (12) month warranty. Damage by use and abuse is not covered.

Please note that certain sounds, including those resembling a “race car” noises such as squeaks or creaks, may be normal for specific models or configurations. These sounds are often associated with the design and operation of the vehicle and do not necessarily indicate a mechanical issue. However, if you hear noises such as clunks or thuds please bring your vehicle to a qualified mechanic for review.

This warranty covers any repair or replacement necessary for defects in materials or workmanship, excluding sounds that result from standard operation of the vehicle’s performance features.

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 PUNATIVE 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.

FOX shall not be liable for any costs and/or expenses arising from or related to the removal, installation, or reinstallation of any product, including without limitation labor charges or any ancillary fees. All such expenses are the sole responsibility of the customer.

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.

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