



**DIRECT-REPLACEMENT
INSTALLATION GUIDE**

FORD F-150 (2015-2020)

PERFORMANCE ELITE SERIES 2.5 DUAL SPEED COMPRESSION

883-06-190 - Kit: 15-20 Ford 4WD F-150, Front, 2.5 Truck PES, R/R, 4-6" Lift, DSC
883-06-181 - Kit: 15-20 Ford F-150, Front, 2.5 Truck PES, R/R, 0-2" Lift, DSC
883-06-189 - Kit: 15-20 Ford 2WD F-150, Front, 2.5 Truck PES, R/R, 0-2" Lift, DSC
883-26-119 - Kit: 15-20 Ford F-150, Rear, 2.5 Truck PES, P/B, 4-6" Lift, DSC
883-26-114 - Kit: 15-20 Ford F-150, Rear, 2.5 Truck PES, P/B, 0-2" Lift, DSC

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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 Service and Upgrades section for more information.

IN THE BOX

- Mounting Hardware
- Reservoir Mounts
- Front Shocks
- Rear Shocks
- Installation Guide

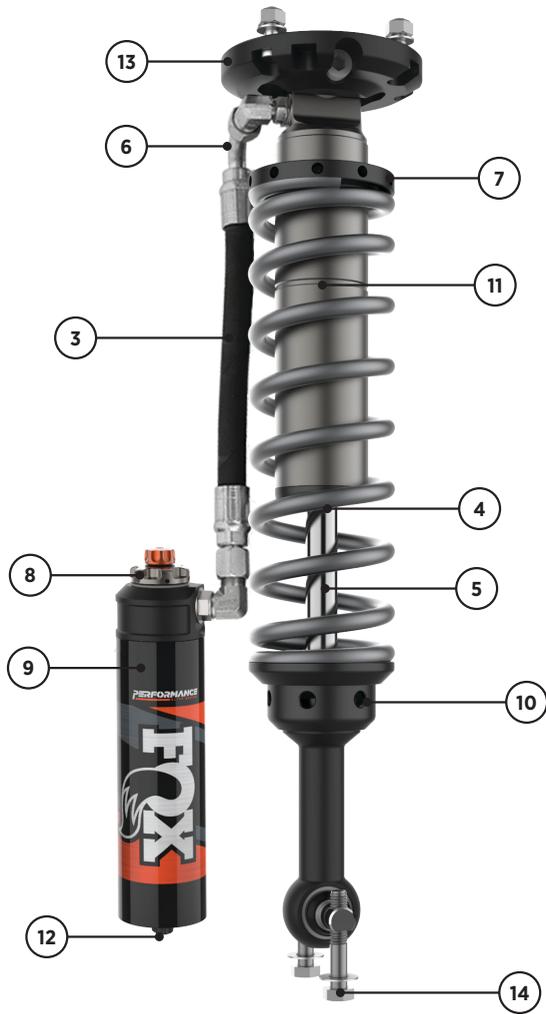
SUPPLIED PARTS

SHOCK ASSEMBLY				
FOX PN	DESCRIPTION		QTY	NOTES
983-06-190-L/R	FRONT, LEFT/RIGHT SHOCK		2	4WD, 4-6" Lift
983-26-119	REAR, LEFT/RIGHT SHOCK		2	4-6" Lift
983-06-181-L/R	FRONT, LEFT/RIGHT SHOCK		2	4WD, 0-2" Lift
983-26-114	REAR, LEFT/RIGHT SHOCK		2	0-2" Lift
983-06-189-L/R	FRONT, LEFT/RIGHT SHOCK		2	2WD, 0-2" Lift
FRONT RESERVOIR BRACKET ASSEMBLY				
FOX PN	DESCRIPTION	*HARDWARE REF.	QTY	NOTES
026-01-073	FRONT RESERVOIR MOUNT	A	2	Brackets mount the remote reservoirs to the vehicle.
018-01-049	SCREW: 1/4"-14 X 3/4" HEX HEAD, SELF-TAPPING	B	2	Each bracket uses one self-tapping screw.
018-01-066	SCREW: 8-32, 3/4"	C1	8	Each bracket uses two clamps and a clamp uses two screws.
026-01-167-1	2.5 RESERVOIR CLAMP, TOP	C2	4	
026-01-167-2	2.5 RESERVOIR CLAMP, BOTTOM	C3	4	
018-00-084	CLIP NUT	D1	2	Hardware is for non-turbo vehicle applications.
019-01-051-A	BOLT: M10 X 1.5"	D2	2	
FRONT TOP HAT HARDWARE				
FOX PN	DESCRIPTION	*HARDWARE REF.	QTY	NOTES
018-05-030-A	WASHER: M10	E1	6	Each top hat uses three washers and three nuts.
019-00-013	HEX NUT: M10 X 1.25"	E2	6	
FRONT LOWER CONTROL ARM HARDWARE				
FOX PN	DESCRIPTION	*HARDWARE REF.	QTY	NOTES
018-04-036	BOLT: M12 X 1.75"	F2	4	Each bar-pin utilizes two washers and two bolts.
018-05-026-A	WASHER: M12	F3	4	

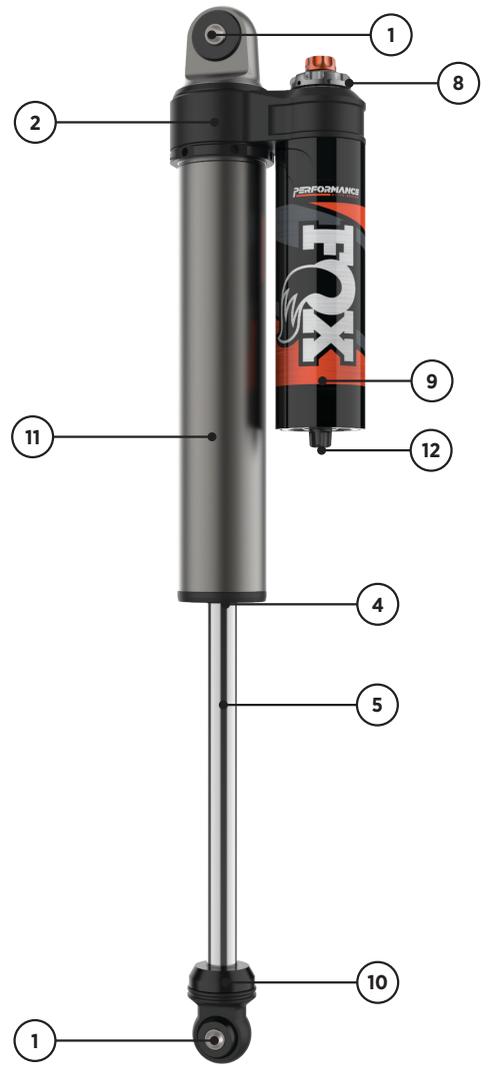
*Hardware Reference is used throughout the installation manual to provide notation of the supplied kit.

SHOCK DIAGRAM

FRONT SHOCK



REAR SHOCK



PART NO.	NAME	PART NO.	NAME
1	Eyelet	8	DSC adjuster
2	Reservoir bridge	9	Reservoir
3	Hose	10	Bumper
4	Wiper seal	11	Shock body
5	Shaft	12	Schrader valve
6	Hose coupler	13	Top hat
7	Preload ring	14	Bar-pin bolt

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 spring hardware and spring. Once the spring is removed, you can adjust the preload ring. DO NOT exceed more the 1/2" of additional preload. If more than 1/2" of preload is required, you will need to go up in spring rate or get a longer spring that fits the application.

FRONT SHOCK INSTALLATION

TOOLS REQUIRED

- Manufacturer Torque Specs
- Torque Wrench
- Medium-Strength Thread-Lock
- 13/64" Drill Bit

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

1. Please read the installation guidelines on page 5 for instructions on how to properly lift and secure the vehicle.

STOCK SHOCK REMOVAL

2. Remove front wheels from vehicle.

3. Remove front stock shocks.

3A. Remove the 3 nuts that secure the stock shock assembly to the vehicle at the upper support. DO NOT remove center nut; doing so will release the spring from the stock assembly and could result in SERIOUS INJURY or DEATH!

3B. Remove the (2) nuts connecting the shock to the lower control arm.

3C. Disconnect both steering tie rod ends at the spindle steering arm for removal and installation clearance.

3D. Disconnect upper ball joint at the knuckle for removal/installation clearance and carefully remove OE shock assembly.

TIP: Use a large pry bar to control the upper control arm from springing upwards when disconnected from the steering knuckle. Disconnect any brackets that fasten wires or lines to the steering knuckle to prevent damage. After the knuckle is disconnected from the upper control arm, restrain the free movement of the knuckle to prevent damage to wires and lines. In some cases, if the steering knuckle is not controlled, the driveshaft might pull out from the driveline and release oil.

RESERVOIR BRACKET INSTALLATION

4. Install the supplied Group A remote reservoir mounting brackets to the frame of the vehicle (Fig. 1).



Fig. 1: Left side of the vehicle is shown.

4A. Utilize the OE radiator bracket's bolted joint to locate the reservoir bracket's front mounting hole (Fig 2). Adjust the bracket to fit flush to the frame. Mark the frame for drilling the remaining bolting location. In the absence of the OE radiator bracket hardware use the supplied bolt and clip nut.

NOTICE: Group D clip nut and bolt is included for applications where the OE location does not have the radiator bracket and hardware.

4B. Drill a 13/64" pilot hole in the frame using the obtained location.

4C. Secure the reservoir bracket to the frame using one of the Group B self-tapping screws. Torque the radiator bracket bolt to OE specifications.

4D. Repeat steps 4A-4C to the other side of the vehicle.

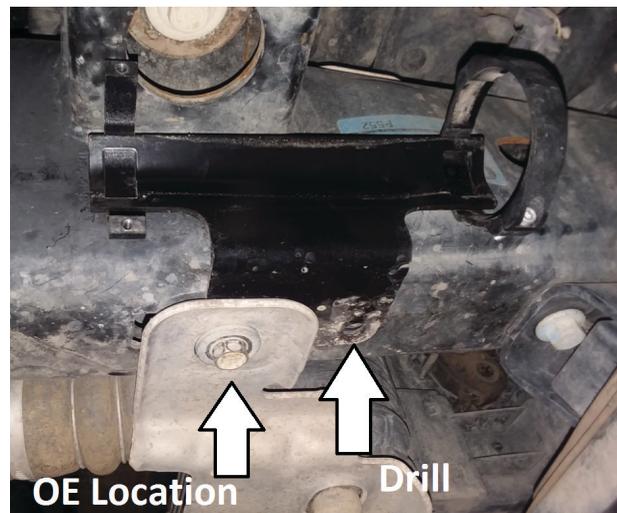


Fig. 2: The OE radiator bracket is used to mount the reservoir bracket.

FOX COIL-OVER INSTALL

5. Place shock with “Left” sticker on the driver side. Route the reservoir hose to avoid suspension contact while the reservoir is mounted to its bracket (Fig. 3). Connect the shock’s top hat to the vehicle using the Group E bolts and washers. Tighten all three nuts to 24 ft* lbs.

NOTICE: The hose and fitting that connects the reservoir to the shock body should point outward from the vehicle’s center.



Fig. 3: Driver’s side wheel well.

6. Connect the FOX shock to the lower mount using the Group F bolts and washers. Torque the bar-pin bolts to 50 ft-lbs

7. Mount the reservoir to the mounting bracket, installed in step 4, with the Group C clamps (Fig. 4).

TIP: Loosely pre-assemble the clamp assembly closest to the front of your vehicle. Tighten the clamp to 50% when the reservoir is centered with proper hose positioning (Fig. 3). Slide the bottom half of the clamp into position for the second clamp assembly (Fig. 4). Complete the installation and torque to 19 in-lbs.

TIP: Tighten both screws on each clamp assembly evenly until tight. Utilize the slots in the bracket to locate the clamps. Do not feed the clamps through the slots in the brackets.

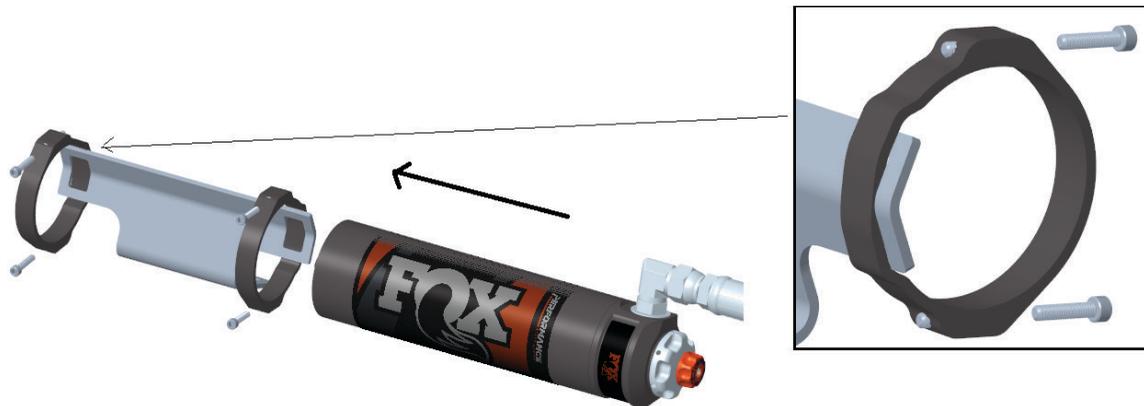


Fig. 4: Remote reservoir and bracket assembly.

8. Reconnect the upper ball joint at the knuckle, torque to OE specifications. Make sure to reinstall any brackets or wires that were previously removed.

9. Reinstall the outer tie rod ends and torque to OE specifications.

CHECK AND FINAL DETAILS

10. Check that the suspension has proper clearance by steering completely in both directions.

11. 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. * PLEASE READ INSTALLATION GUIDELINES ON HOW TO PROPERLY ADJUST PRELOAD

12. It is highly recommended that you have your wheel alignment checked.

REAR SHOCK INSTALLATION

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

1. Please read the installation guidelines on page 5 for instructions on how to properly lift and secure the vehicle.

STOCK SHOCK REMOVAL

2. Remove rear wheels from vehicle.

3. Remove the OE shocks. Removal of the OE shock absorber may allow the axle to drop and possibly damage brake lines. A support for the axle is recommended.

NOTICE: Do not discard bolts and nuts. They are used to install your Fox shocks.

FOX SHOCK INSTALL

4. Install the new FOX shock by reusing OE bolts and nuts. For piggyback reservoir models, make sure the reservoir is pointing toward the rear of the vehicle on both driver and passenger sides. Torque to OE specifications. View the images below to correctly orient the left and right rear shocks (Fig. 5 and Fig. 6).



Fig 5: Driver side rear shock orientation.

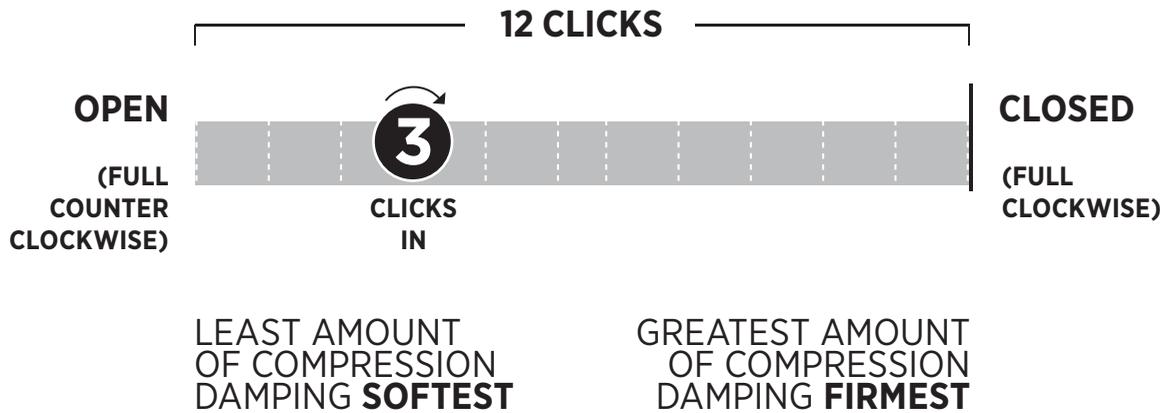


Fig 6: Passenger side rear shock orientation.

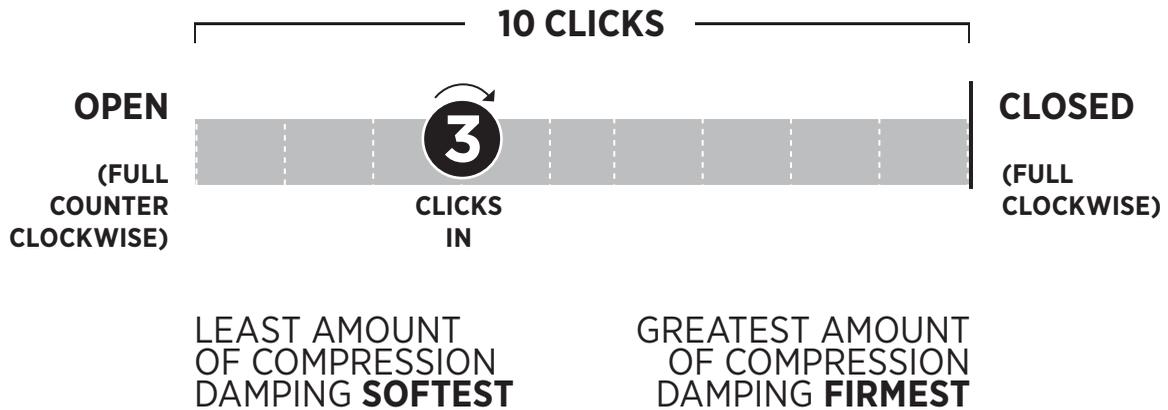
FOX FACTORY DSC

DUAL SPEED COMPRESSION (DSC) ADJUSTER SETTINGS

DSC HIGH SPEED COMPRESSION



DSC LOW SPEED COMPRESSION



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.

SHOCKS NEED LOVE TOO

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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