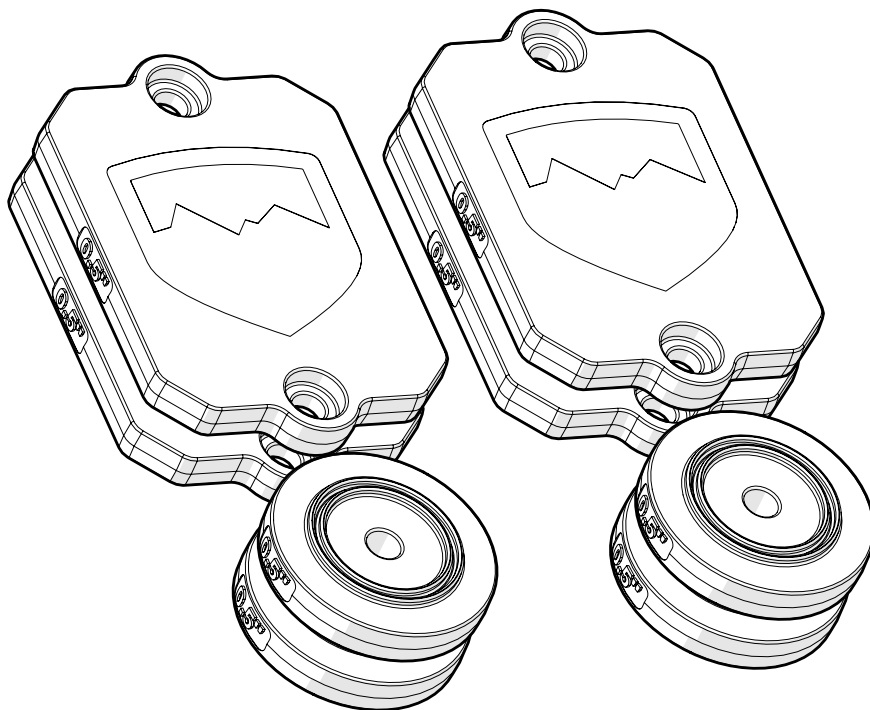




Bumpstop Spacer Kit

www.TERAFLEX.com



Important Notes:

Prior to beginning this install, or any installation, read the instructions thoroughly to familiarize yourself with the required steps. Evaluate if you are experienced and capable to personally perform these modifications. A factory service manual should be used in conjunction with these installation instructions.

This product will change the highway handling characteristics of your vehicle, exercise caution. After altering the suspension it is always advisable to have an alignment done by a competent 4 wheel drive shop or by an alignment shop that is experienced with lifted 4 wheel drive vehicles.

Refer to the parts list to ensure that all necessary components and hardware has been included. If any parts are missing please contact your local TeraFlex dealer for assistance.

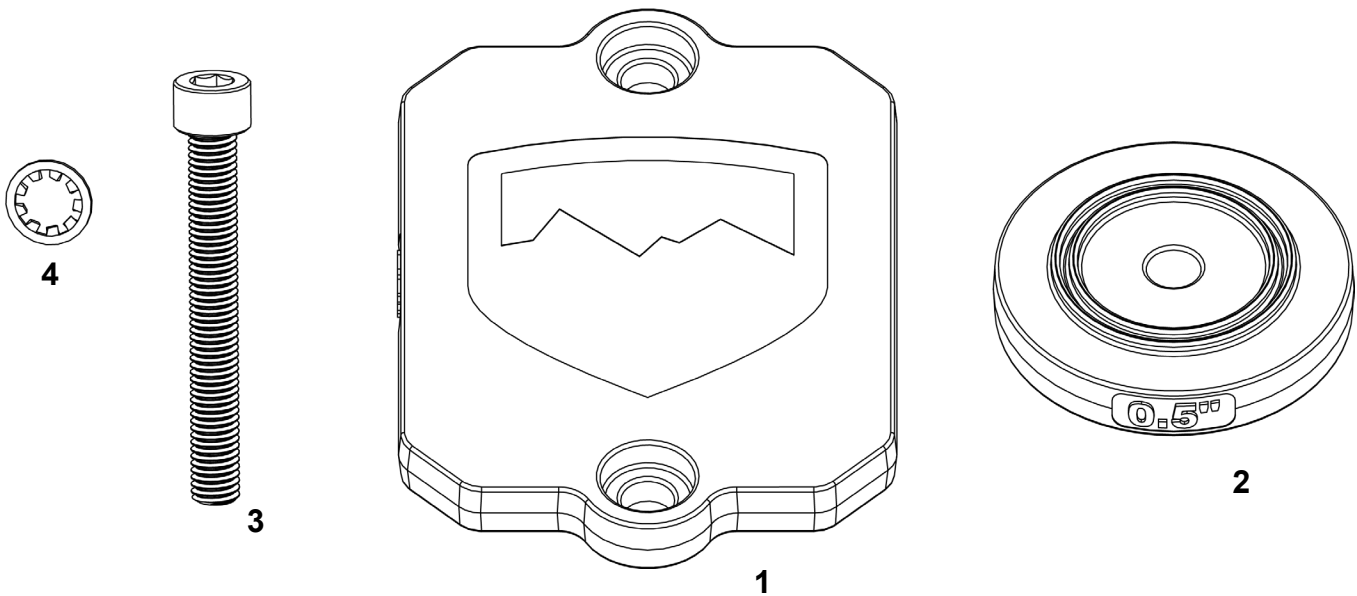
When reinstalling OEM hardware, refer to the torque specs given in the Factory Service Manual.

Tools Needed:

- | | |
|--|---------------------------|
| - Metric Sockets and Open End Wrenches | - Factory Service Manual |
| - Torque Wrench | - General Mechanics Tools |

Maintenance Note:

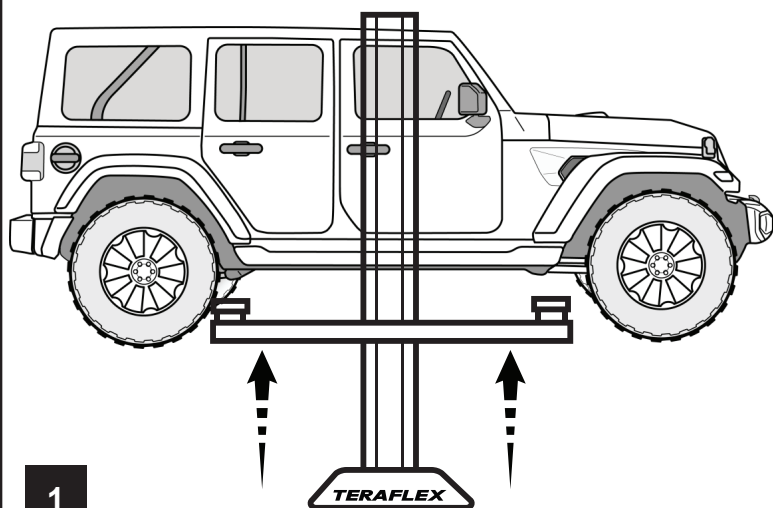
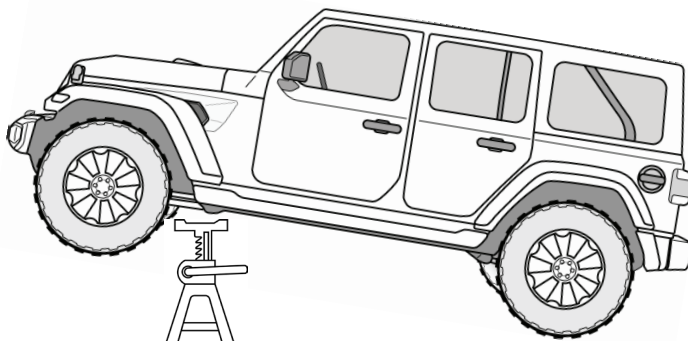
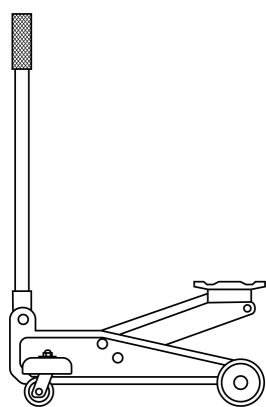
After the first 300 miles and every 3,000 miles after that, re-torque all the suspension components and bolts.



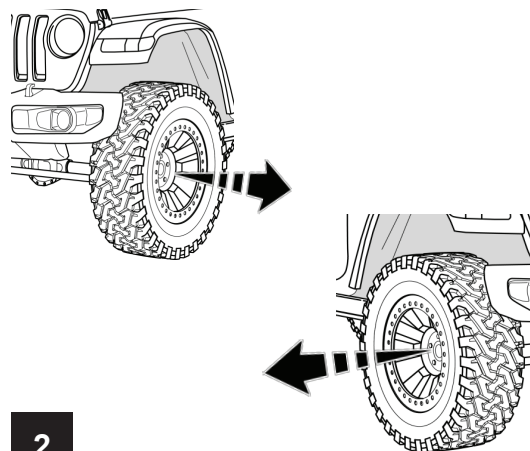
Item #	Part No.	Description	QTY
1	12-02-209-050	Bumpstop, Spacer, Rear, Jeep JL Wrangler, 0.50" Lift Height	4
2	12-02-109-050	Bumpstop, Spacer, Front, Jeep JL Wrangler, 0.50" Lift Height	4
	5093	Hardware Pack, Rear Bumpstop Extension Spacers, Jeep JL Wrangler	
3	45-03-003-002	Hardware, Socket Cap Screw, Alloy Steel, Yellow Zinc, M10 x 1.5 x 80mm	4
4	45-12-002-001	Hardware, Internal Tooth Lock Washer, Alloy Steel, M10	4

Only use the 5093 Hardware Pack if you are planning on running three or more rear bumpstop spacers. Other wise use the hardware provided in the lift kit.

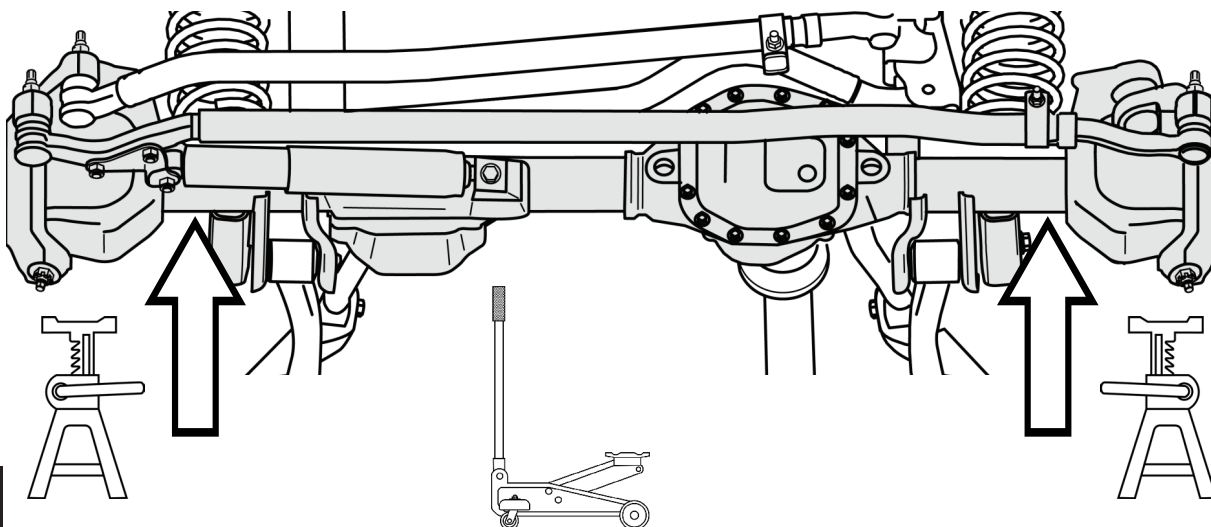
FRONT INSTALLATION LIFT AND SUPPORT AT FRAME

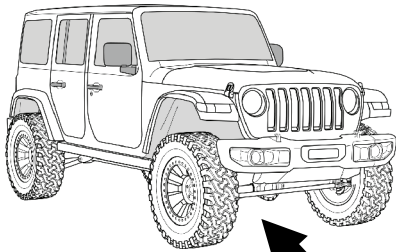
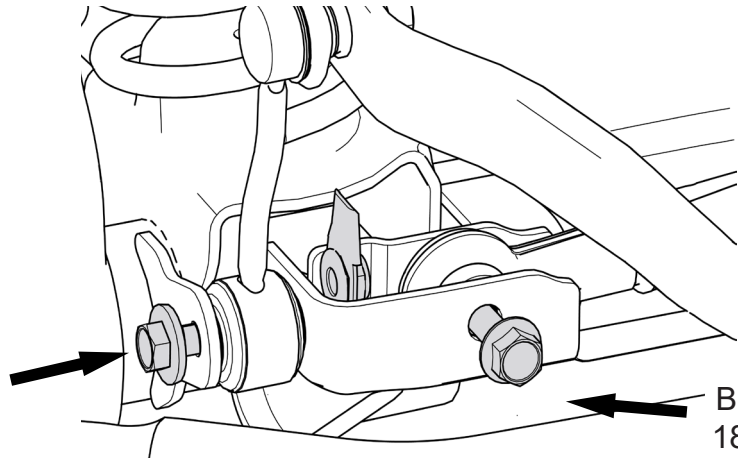
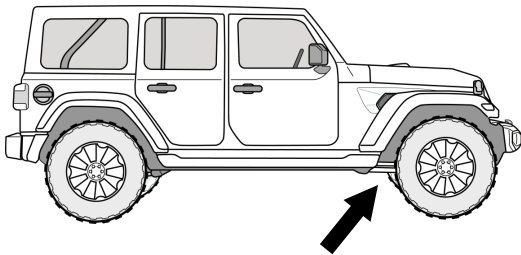
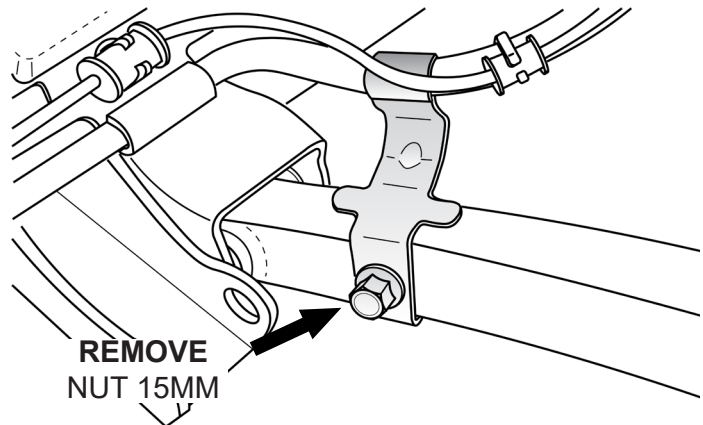
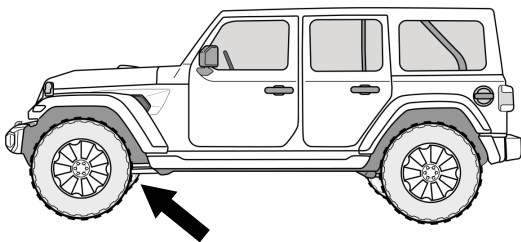
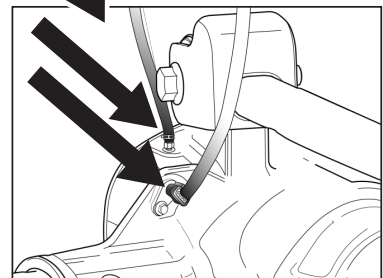
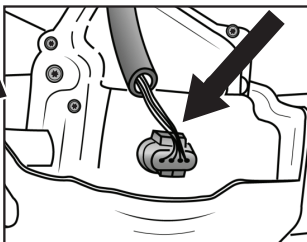
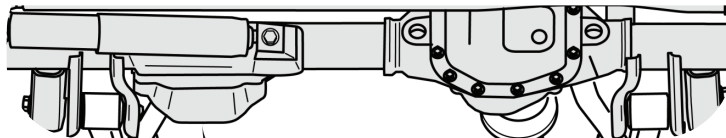


REMOVE FRONT TIRES

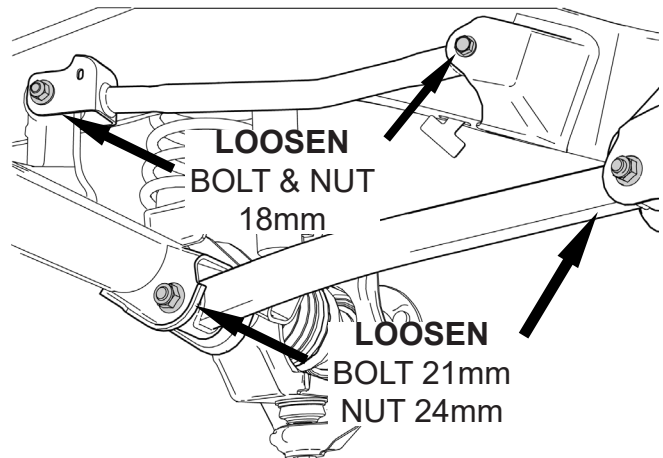
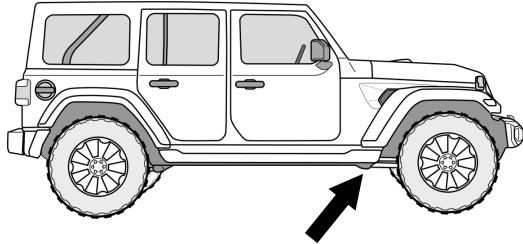


SUPPORT FRONT AXLE



REMOVE SWAY BAR LINKS & TRACK BAR BOLTS AT THE AXLE**4****BOLT
18mm****BOLT
18mm****REMOVE BRAKE LINE BRACKETS FROM LOWER CONTROL ARMS****2X****5****REMOVE
NUT 15MM****DISCONNECT ACTUATORS & VENT HOSE AT THE FRONT AXLE****6**

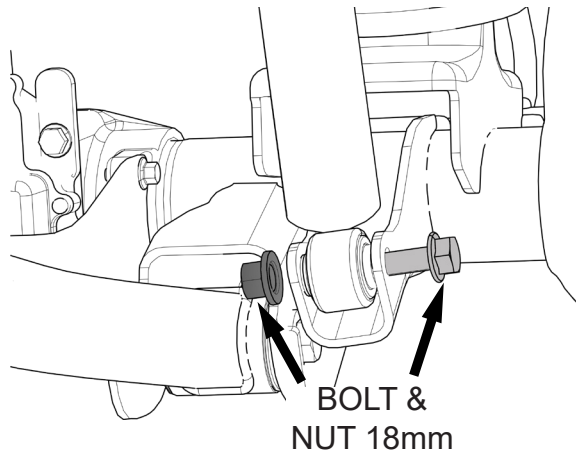
LOOSEN FRONT CONTROL ARM BOLTS DO NOT REMOVE THE CONTROL ARM BOLTS



2X

7

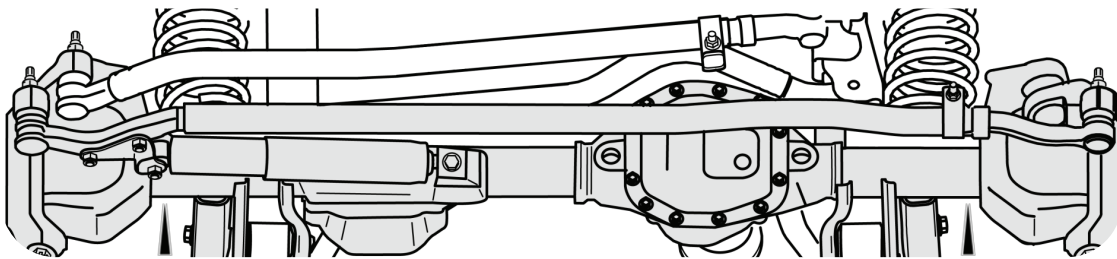
REMOVE SHOCKS AT THE AXLE



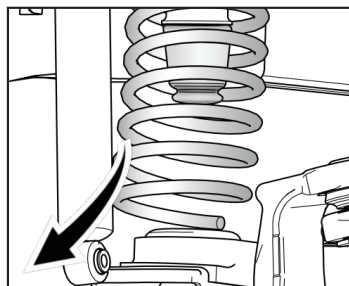
2X

8

LOWER AXLE & REMOVE FRONT SPRINGS



**NOTE: REMOVE ANY
PLASTIC RETAINERS
FROM WIRING OR
HOSES AS NEEDED.**

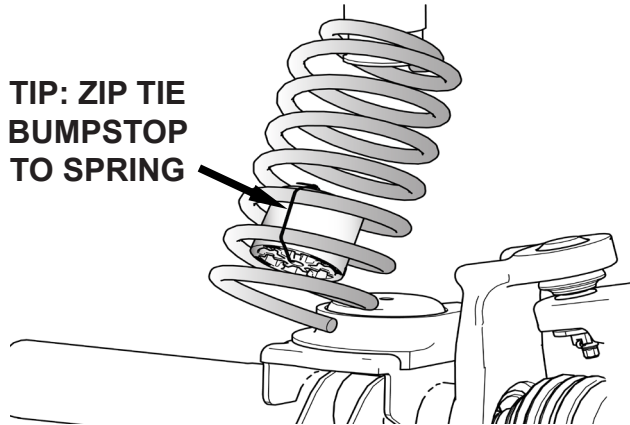


2X

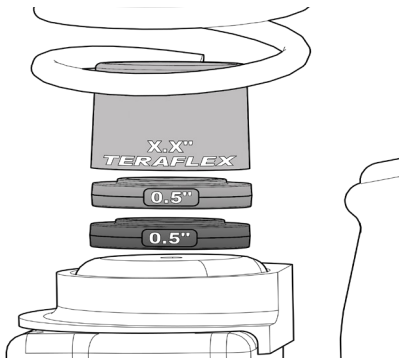
9

INSTALL BUMPSTOP SPACERS INTO THE FRONT SPRINGS

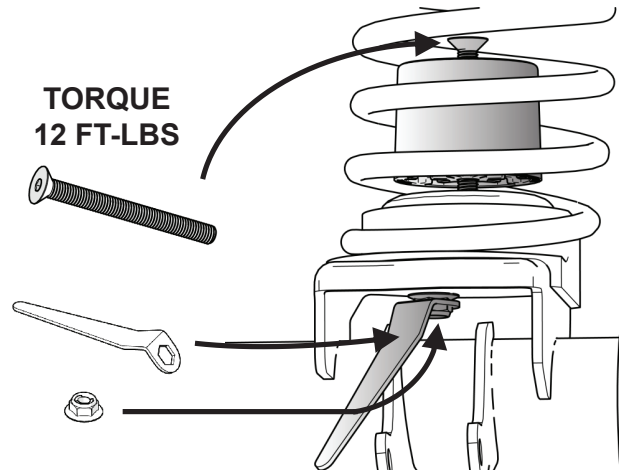
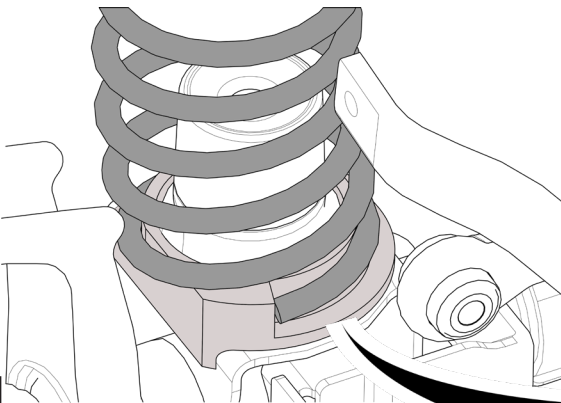
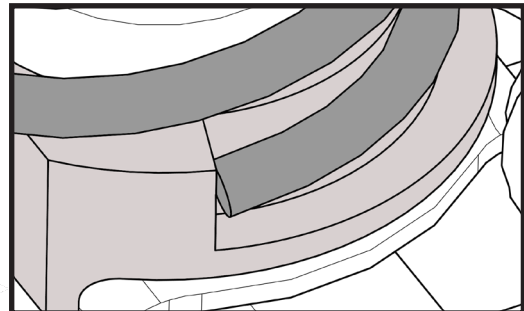
**TIP: ZIP TIE
BUMPSTOP
TO SPRING**

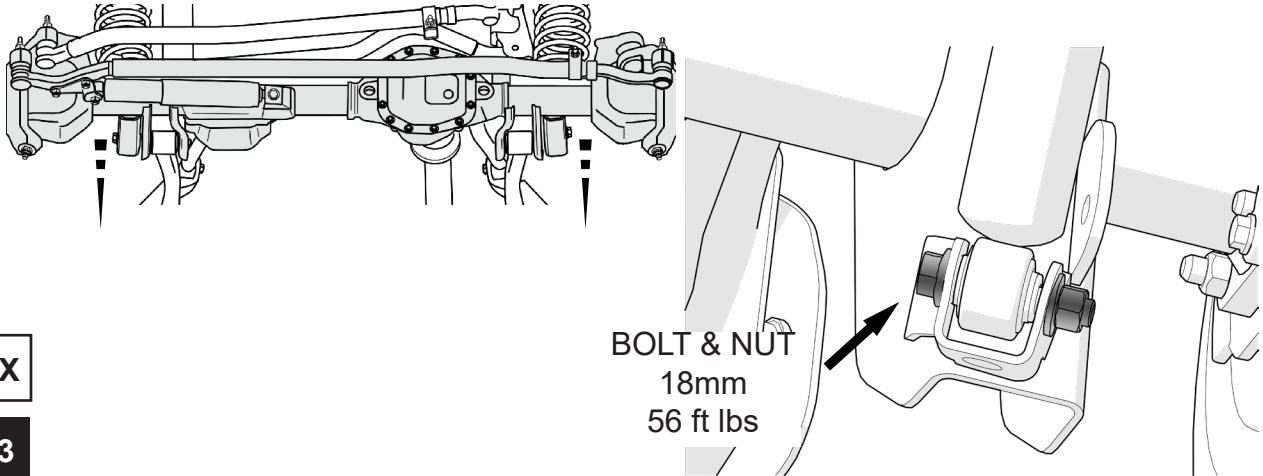
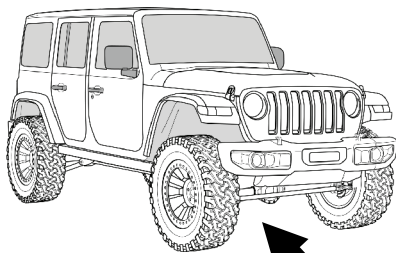
**2X****10**

**NOTE: REFER TO PAGE 9 FOR
BUMPSTOP SPACER GUIDE**

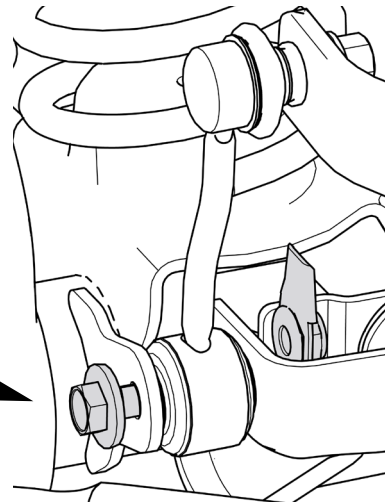
**2X****11**

**TORQUE
12 FT-LBS**

**FULLY SEAT THE SPRINGS INTO THE LOWER SPRING ISOLATOR****2X****12**

RAISE AXLE & REINSTALL SHOCKS**REINSTALL SWAY BAR LINKS AT AXLE**

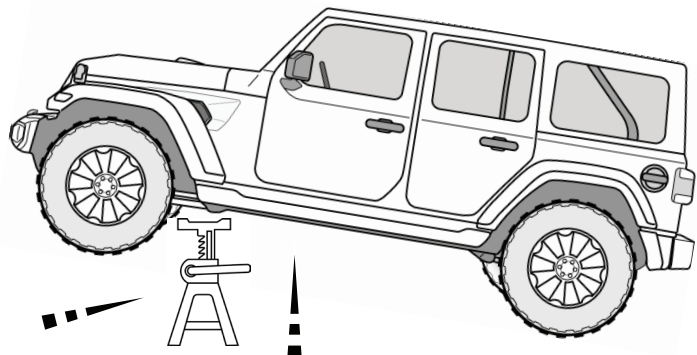
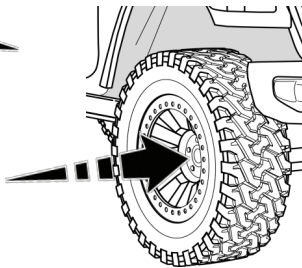
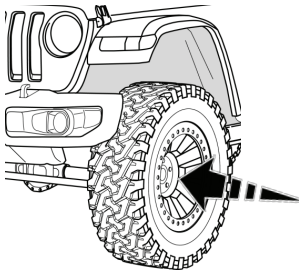
BOLT 18mm
59 ft lbs



2X

14

**NOTE: IF ONLY FRONT OF JEEP WAS LIFTED, REINSTALL TIRES AND LOWER JEEP
BACK TO THE GROUND BEFORE LIFTING THE REAR
REINSTALL ANY REMAINING CONNECTORS**



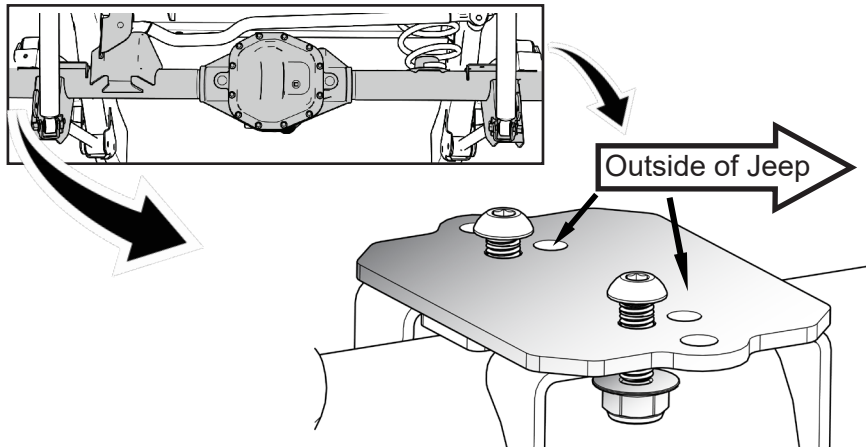
15

REAR INSTALL

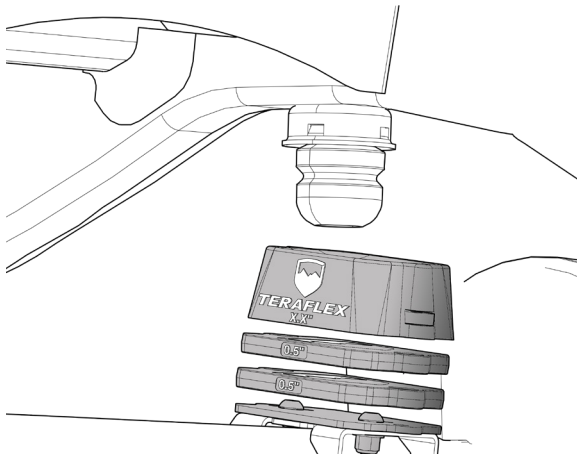
NOTE: REAR BUMPSTOPS CAN BE INSTALLED WITHOUT RAISING THE JEEP.

2X**16**

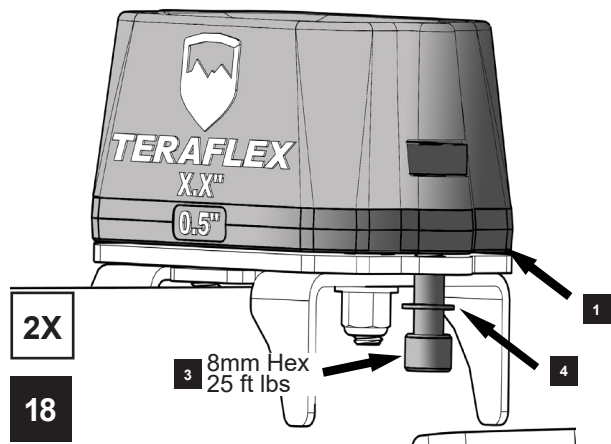
MUST HAVE MOUNTING PLATES IN ORDER TO INSTALL REAR BUMPSTOPS



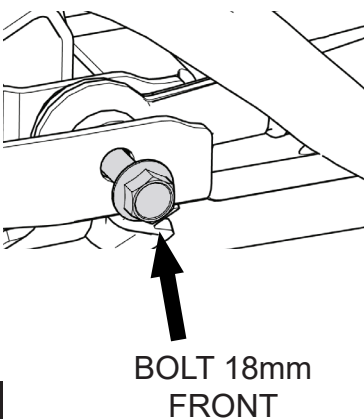
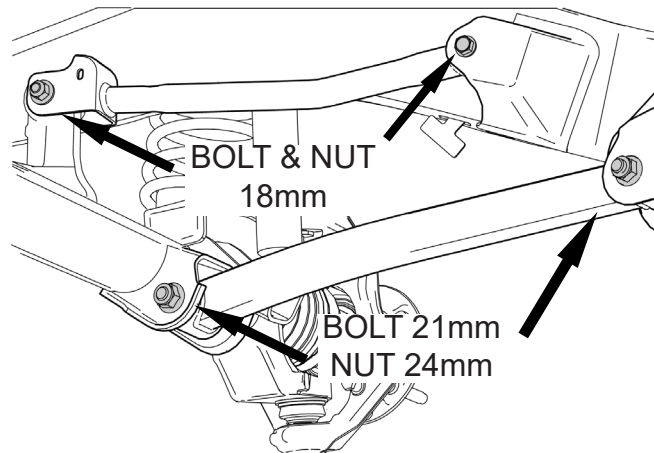
NOTE: INSTALL ADDITIONAL SPACERS IF REQUIRED. REFER TO PAGE 9 FOR BUMPSTOP GUIDE.

**2X****17**

INSTALL THE BUMPSTOP ASSEMBLY ONTO THE MOUNTING PLATE

**2X****18**

**REINSTALL FRONT TRACK BAR. TORQUE TO FACTORY SPECS.
TORQUE FRONT CONTROL ARMS TO FACTORY SPECS.**

**19**

JL TIRE CLEARANCE GUIDE for vehicles with FACTORY FENDER FLARES

TeraFlex Bump Stop Strike Pad Extensions allow the use of larger tires and factory fender flares by limiting suspension up travel.

JL Rubicon models feature high-clearance fenders that allow for more up travel, while the lower-clearance fenders on JL Sport and Sahara restricts tire size due to fender rubbing.

In order to address these fender differences, TeraFlex designed a proprietary modular bump stop system, which can be adapted to fit several different tire size configurations.

JL RUBICON

with Factory Fender Flares:

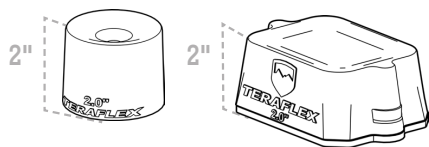
33" TIRES

- No Front or Rear Bump Stops

Compatible Lift Kit Heights: 1.5"

35" TIRES

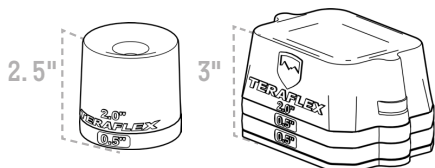
- 2" Front & 2" Rear Bump Stops



Compatible Lift Kit Heights: 2.5"-4.5"

37" TIRES

- 2.5" Front & 3" Rear Bumps



Compatible Lift Kit Heights: 2.5"-4.5"

Notes:

- If a 1.5" Performance Spacer lift kit is installed and a little bit of bump stop is needed, Front and Rear Bump Stop Strike Pads are available for individual purchase.
- If installing 39"+ tires, it is recommended that you replace the factory fender flares.
- If installing on a Eco-Diesel Jeep, the jounce tubes are 1.375" longer, so you should subtract 1.375" from the front bump stop stack.
- A minimum of 2" bump stop is needed if 3.5"-4.5" Lift Falcon Shocks are installed.

Additional 0.5" shims can be added to fine tune bump stop height and further limit suspension up travel.

IMPORTANT: Recommended Bump Stop configuration is based on tested tires. Not all tires measure the same. Before driving, cycle the suspension to check for rubbing or contact of the shocks, springs, or suspension componets.

JL SPORT/SAHARA

with Factory Fender Flares:

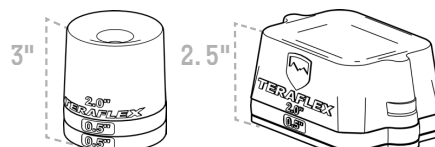
33" TIRES

- No Front or Rear Bump Stops

Compatible Lift Kit Heights: 1.5"

35" TIRES

- 3" Front & 2.5" Rear Bump Stops

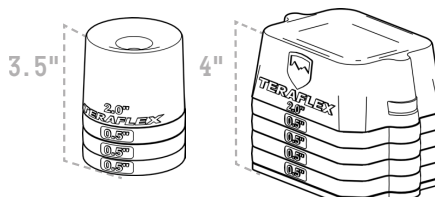


Compatible Lift Kit Heights: 2.5"-4.5"

37" TIRES

- 3.5" Front & 4" Rear Bump Stops

**Additional Bump Stops Required



Compatible Lift Kit Heights: 4.5"



TERAFLEX

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Rev B 999320

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PRODUCT INFORMATION

MAINTENANCE INFORMATION:

It is the buyer's responsibility to have all suspension, drivetrain, steering, and other components checked for proper tightness and torque after the first 100 miles and every 3000 miles after that.

NOTICE TO INSTALLER:

The enclosed "Warning to Driver" sticker must be installed in the vehicle in driver's view. This sticker is to act as a constant safety reminder when operating the vehicle. It is your responsibility as the equipment installer to install the provided sticker and to forward the product instructions to the vehicle's owner for review. If a "Warning to Driver" sticker or product installation guide were not included in the kit, FREE replacement stickers and instructions are available by request. It is the installer's duty to ensure a safe and controllable vehicle after the modifications have been performed.

WARNING:

Neither the seller nor the manufacturer will be liable for any loss, damage, or injury directly or indirectly arising from the use of or inability to determine the use of these products. Before using, the user shall determine the suitability of the products for its intended use, and the user shall assume all responsibility and risk in connection therewith.

WARNING TO DRIVER:

This vehicle has been modified to enhance off road performance and has unique handling characteristics. Use in harsh environments can cause extreme stress on the components. Vehicle should be inspected after being off road to make sure that all the components are in working order and safe to travel on the highway. All fasteners should be checked so that they are at the correct torque specifications as the vibration and stresses from off roading may cause critical fasteners to work loose. Extra care should be taken to inspect the critical components, steering, and brake systems. During each oil change components such as arms, tie rod ends, etc should be greased and checked for excessive wear. Any worn components should be replaced. When returning to the pavement always set or restore tire air pressure to the factory recommendation and connect or engage any disabled sway bar mechanisms. Because of the higher center of gravity and larger tires, this vehicle handles and reacts differently than many passenger cars, both on and off road. You must drive it safely! Extreme care should be taken to prevent vehicle rollover or loss of control, which can result in serious injury or death. Avoid sudden sharp turns or abrupt maneuvers. Generally, braking performance and capabilities are decreased when significantly larger/heavier tires are used, especially when used in combination with transfer case low-range reduction kits. Take this into consideration while driving. Do not add, alter or fabricate any factory or aftermarket parts to increase vehicle height over the intended height of the TeraFlex product purchased. Mixing component brand is not recommended. TeraFlex Inc. will not be responsible for any altered product or any improper installation or use of our products. We will be happy to answer any questions concerning the design, function, and correct use of our products. It is ultimately the buyer's responsibility to have all bolts/nuts checked for tightness after the first 100 miles and then every 3000 miles. Wheel alignment, steering system, suspension and drive line systems must be inspected by a qualified professional mechanic at least every 3000 miles.

TERAFLEX PRODUCT WARRANTY:

TeraFlex Inc. warrants TeraFlex Suspension products to the original retail purchaser to be free of defects in material and workmanship for as long as the original purchaser owns the vehicle on which products were originally installed.

Failure to complete regular maintenance (grease every 3000 miles) on TeraFlex FlexArms will void this warranty. All other conditions of the standard TeraFlex product warranty apply.

All TeraLow products are covered by the TeraFlex two (2) year warranty to be free of defects in material and workmanship for two years from date purchased.

TeraFlex axles are covered by a 12-month warranty to be free of defects in materials and workmanship.

This warranty does not cover or include product finish, improperly installed or applied products, improperly maintained products, products or components used for racing or competition or damage due to abuse or neglect, products that fail due to the use of larger tire and wheel combinations.

All returns must be accompanied by an original invoice. It is the customer's responsibility to remove the product from the vehicle. Shipping charges are the responsibility of the customer. TeraFlex Inc. will pay the return freight if the product meets the terms of warranty.

This warranty is for the replacement or repair of defective TeraFlex products only and does not include freight charges, labor charges for removal of or installation of TeraFlex or related products or components, costs incurred due to down time of the vehicle, or lost profits due to vehicle down time.

A returned goods authorization number (RGA#) must accompany any returned products. For more information please contact a TeraFlex customer service representative.

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TERAFLEX, Inc.
5680 West Dannon Way
West Jordan, UT. 84081
Phone/801.713.3314
Fax/801.713.2313
www.teraflex.com