



Jeep JL SpeedBump Kit

www.TERAFLEX.com

#1958350
#1958352



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.

Note: Diesel vehicles are required to run at least a 5/8" bumpstop spacer on the front to ensure clearance for the front axle.

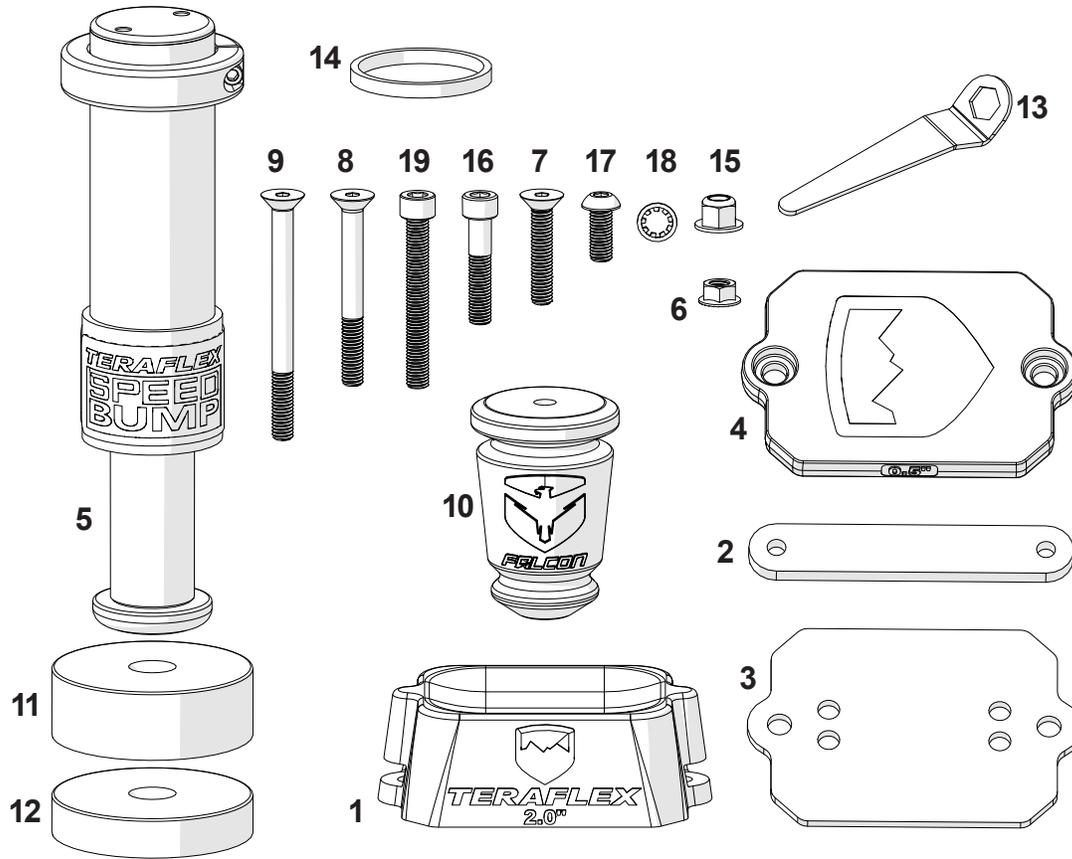
Note: If you have purchased the RT2 or RT3 kit you will receive the 1953752 (2") SpeedBump Kit. If you have purchased the RT4 kit you will receive the 1953750 (3") SpeedBump Kit.

Tools Needed:

- Metric Sockets and Open End Wrenches
- Torque Wrench
- Pipe Cutter
- Factory Service Manual
- General Mechanics Tools
- RTV Sealant

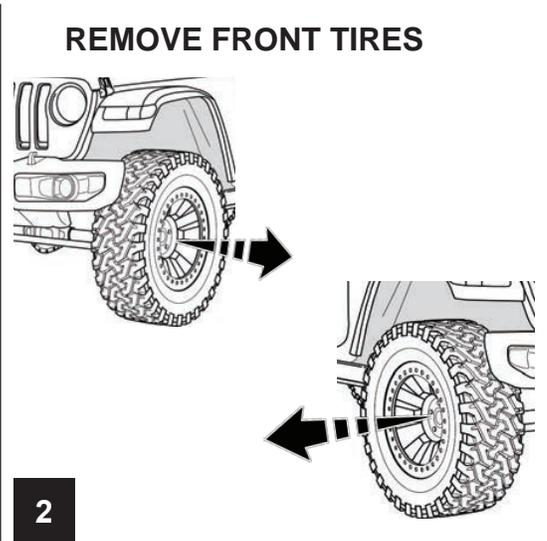
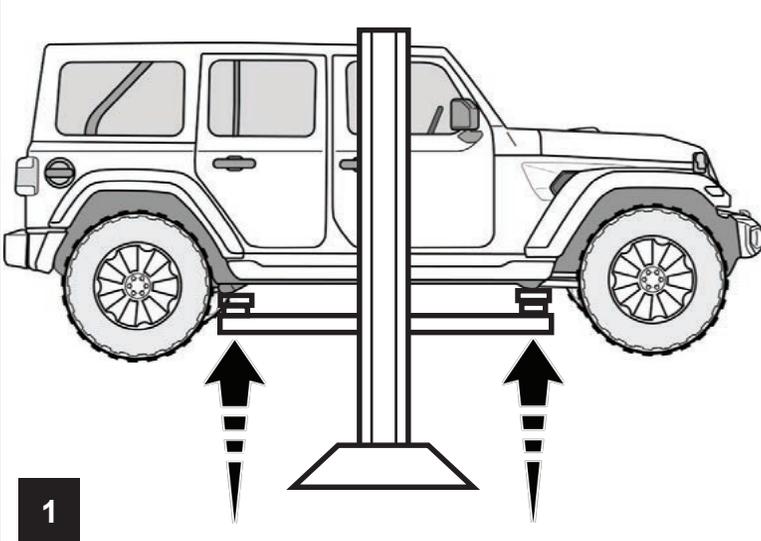
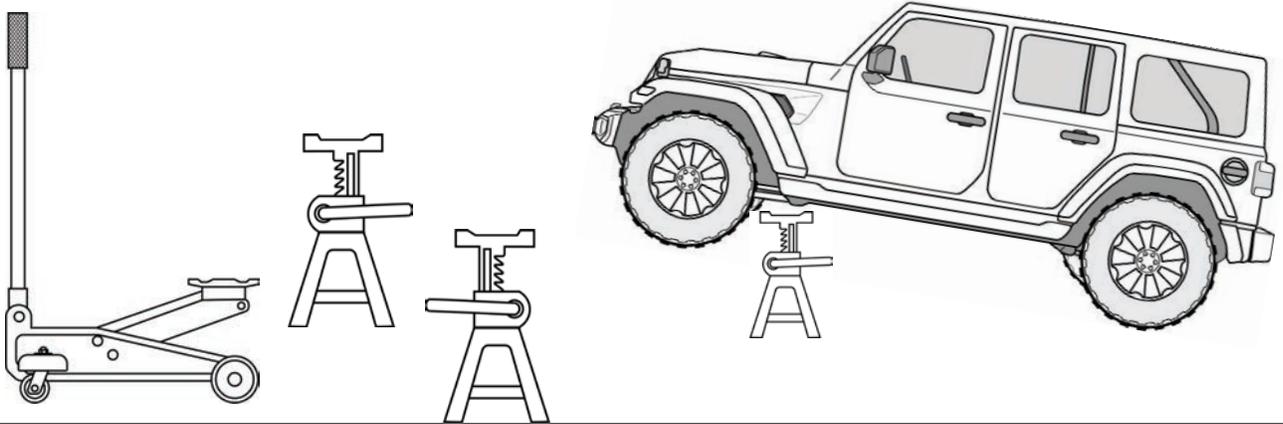
Maintenance Note:

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

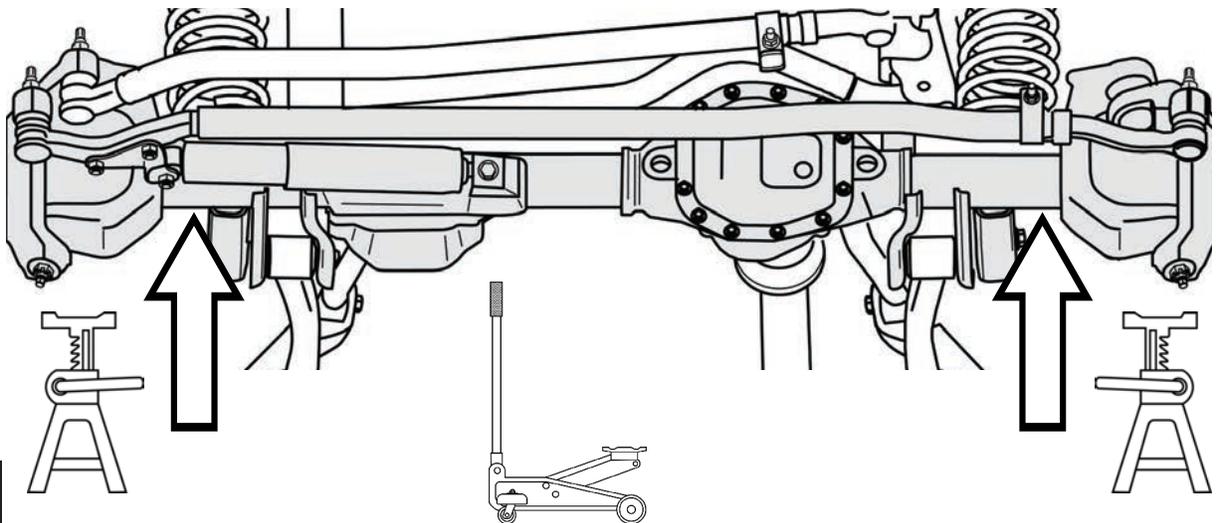


Item #	Part No.	Description	QTY
1	12-01-209-200	Bumpstop, Top Spacer, Rear, Jeep JL Wrangler, 2.00" Long	2
2	12-02-209-001	Bumpstop, Bracket, Rear, Jeep JL Wrangler, Mounting Strap, M10 X 1.5	2
3	12-02-209-002	Bumpstop, Bracket, Rear, Jeep JL Wrangler, Mounting Plate	2
4	12-02-209-050	Bumpstop, Spacer, Rear, Jeep JL Wrangler, 0.50" Lift Height	8
5	1953752	2" Front SpeedBump Kit Pair (RT2 or RT3 Kits)	1
	1953750	3" Front SpeedBump Kit Pair (RT4 Kits)	1
6	85	Nut 3/8"-16 UNC Flanged Serrated	2
7	315	Bolt 3/8"-16 UNC x 2" Long Flat Head Socket Screw Black	2
8	45-04-002-001	Hardware, Flat Socket Cap Screw, Alloy Steel, 3/8"-16 x 3.5" Long	2
9	45-04-002-002	Hardware, Flat Socket Cap Screw, Alloy Steel, 3/8"-16 x 4.5" Long	2
10	45-02-02-002	Bumper, Foam, Snap-In, 3.90" Tall	2
11	467125	Bumpstop RAW JL Front Speedbump 1.25" Tall x 3.5" OD Extruded	4
12	467127	Bumpstop RAW JK Front Speedbump 0.625" Tall x 3.5" OD Extruded	4
13	600271	Nut Wrench Tool	1
14	944725	Speedbump RAW Front Spacer Sleeve 0.25" Tall	4
	5087	Hardware Pack, 2.0" Rear Bumpstop Spacer, Jeep JL Wrangler	
15	23-07-03-001	Mounting Hardware, Flanged Fuji Nut, M10 x 1.5	4
16	45-03-003-001	Hardware, Socket Cap Screw, Alloy Steel, M10 x 1.5 x 50mm	4
17	45-05-003-003	Hardware, Button Socket Cap Screw, Alloy Steel, M10 x 1.5 x 25mm	4
18	45-12-002-001	Hardware, Internal Tooth Lock Washer, Alloy Steel, Zinc, M10	4
	5093	Hardware Pack, Rear Bumpstop Extension Spacers, Jeep JL Wrangler	
19	45-03-003-002	Hardware, Socket Cap Screw, Alloy Steel / Yellow Zinc, M10 x 1.5 x 80mm	4
18	45-12-002-001	Hardware, Internal Tooth Lock Washer, Alloy Steel, Zinc, M10	4

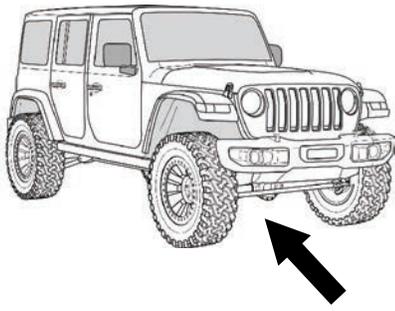
FRONT INSTALLATION LIFT AND SUPPORT AT FRAME



SUPPORT FRONT AXLE

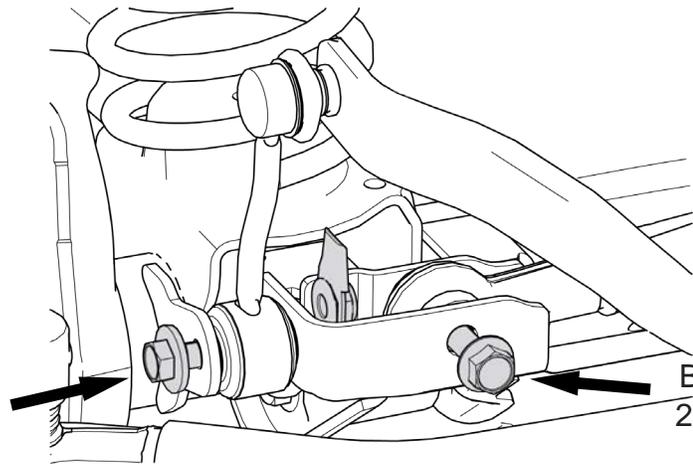


REMOVE SWAY BAR LINKS & TRACK BAR BOLT AT THE AXLE

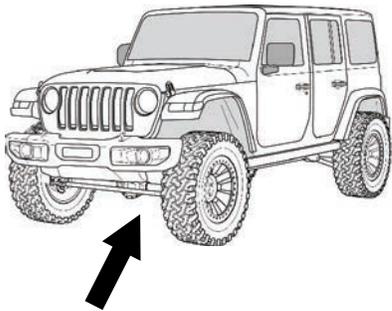


4

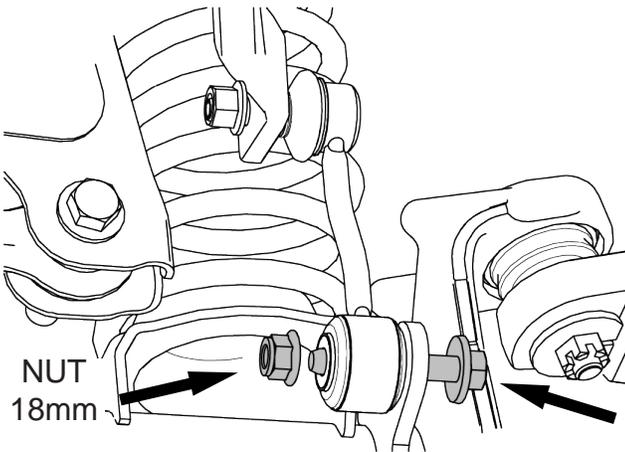
BOLT
18mm



BOLT
21mm



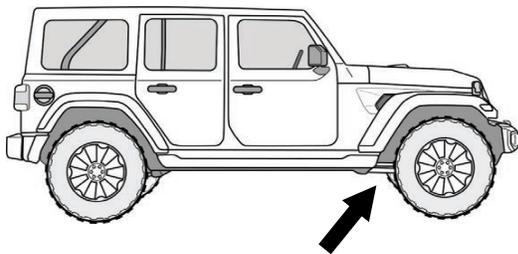
5



NUT
18mm

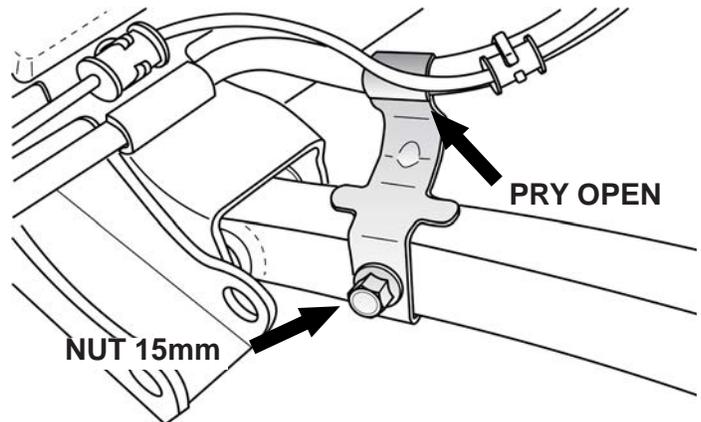
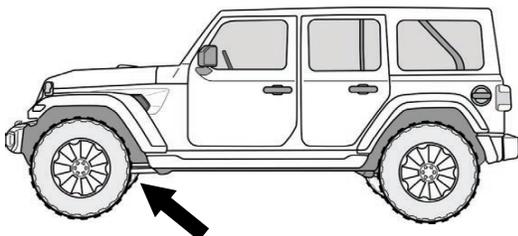
BOLT
18mm

REMOVE BRAKE LINE BRACKETS FROM LOWER CONTROL ARMS



2X

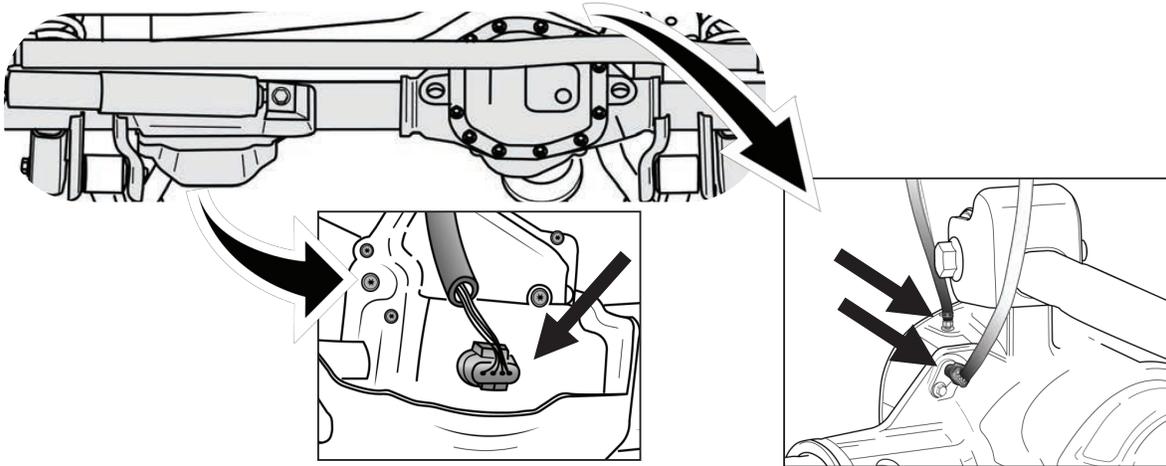
6



NUT 15mm

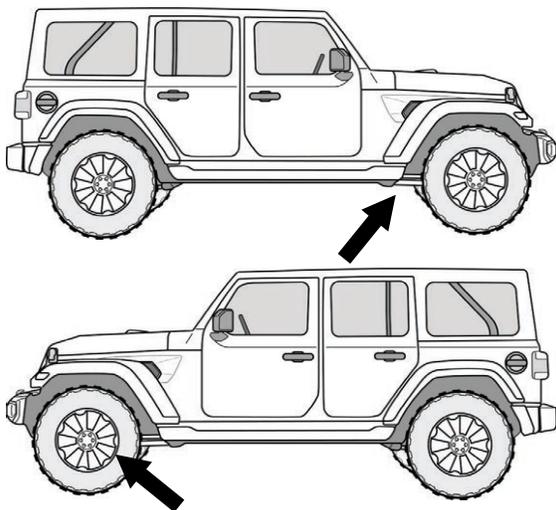
PRY OPEN

DISCONNECT ACTUATORS AND VENT HOSE AT THE FRONT AXLE



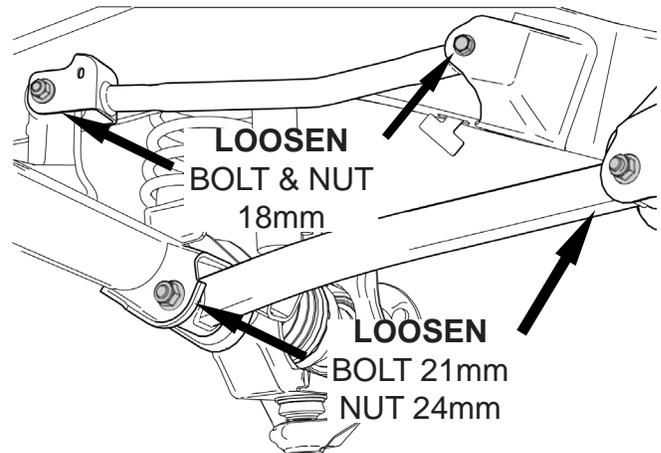
7

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

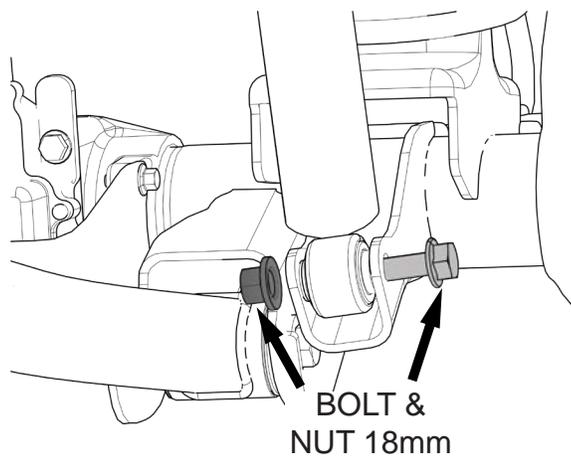


2X

8



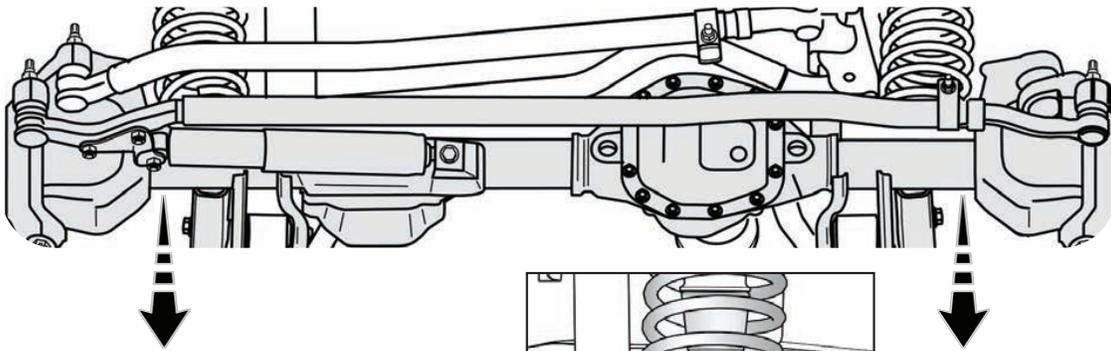
REMOVE FRONT SHOCKS AT THE AXLE



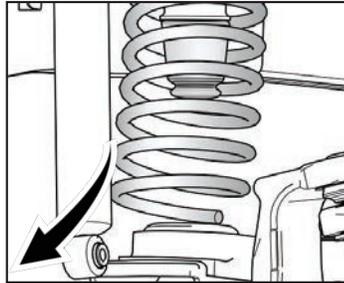
2X

9

LOWER AXLE AND REMOVE FRONT SPRINGS



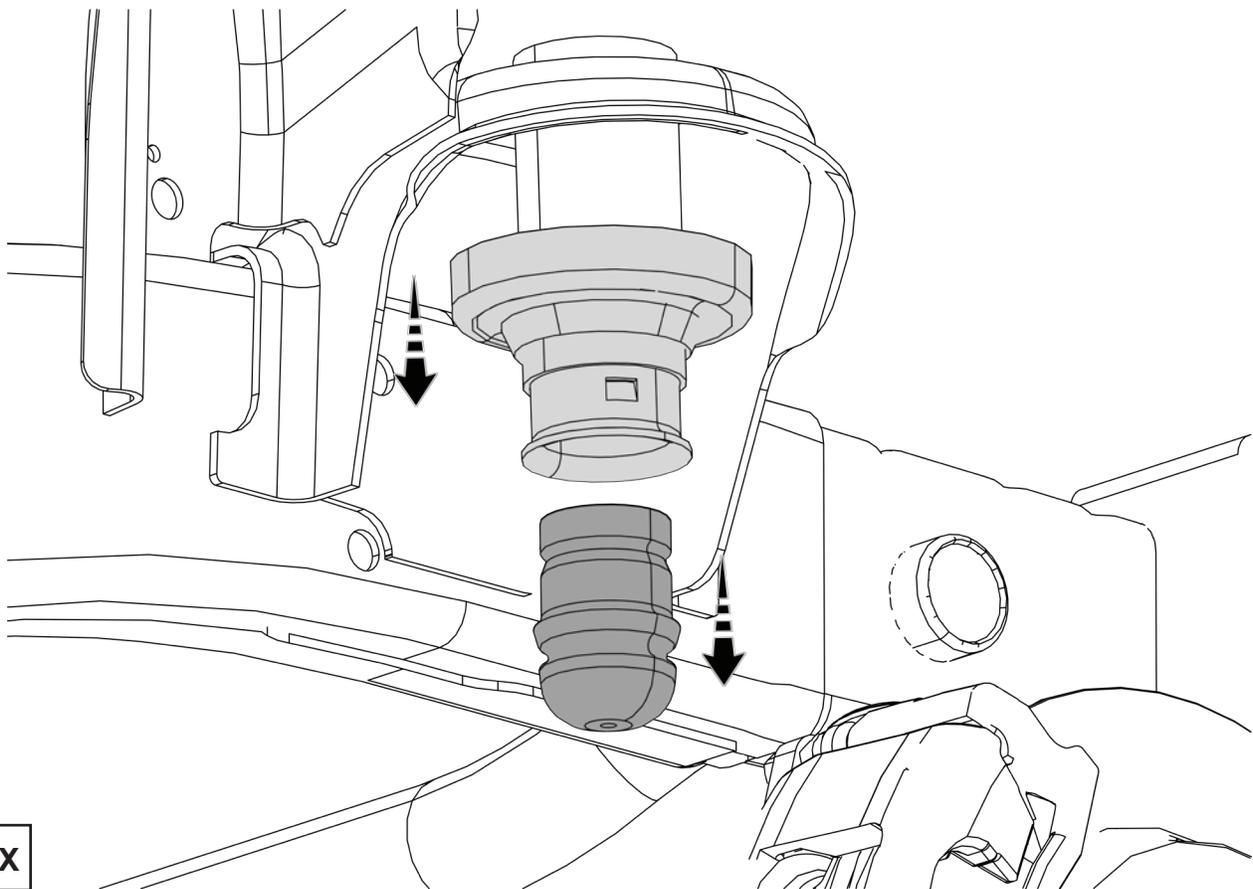
**NOTE: REMOVE ANY
PLASTIC RETAINERS
FROM WIRING OR
HOSES AS NEEDED.**



2X

10

REMOVE SPRING ISOLATOR AND FACTORY BUMPSSTOP.

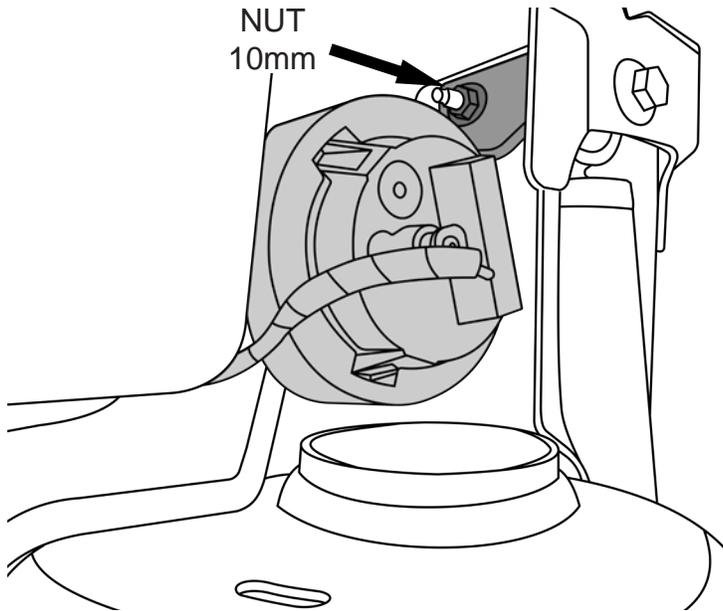


2X

11

(JL MODELS WITH A 2.0 LITER ENGINE ONLY)

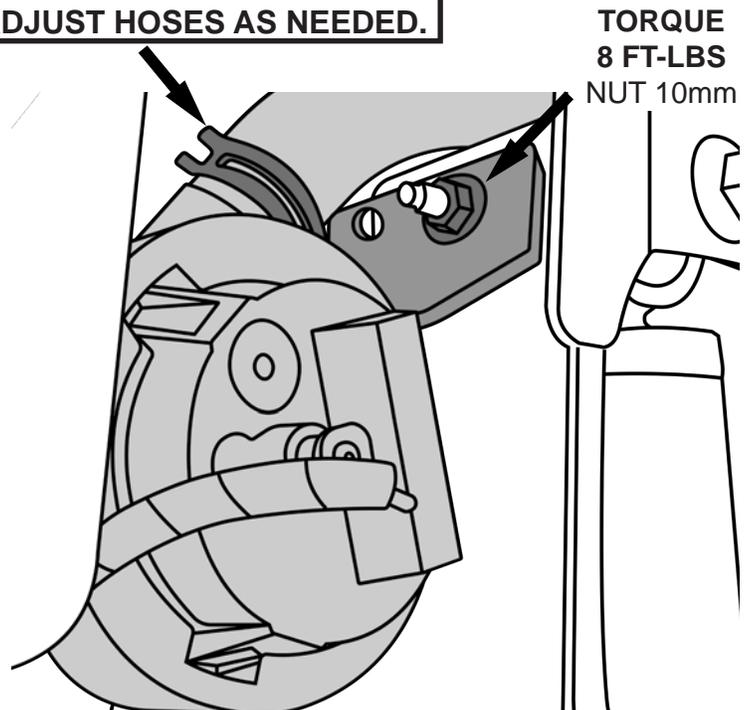
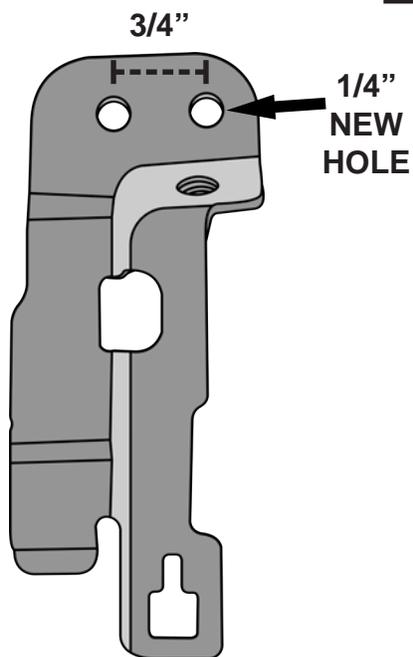
JEEPS WITH THE 2.0 LITER ENGINE MAY NEED TO MODIFY THIS AXILLARY COOLANT PUMP BRACKET ON THE DRIVERS SIDE BEHIND THE INNER FENDER



1. REMOVE THE PUMP BRACKET WITH A 10mm SOCKET.
2. DRILL A 1/4" HOLE ABOUT 3/4" OUTWARDS FROM THE OLD HOLE.
3. REINSTALL THE PUMP USING THE NEW HOLE.

THIS SHOULD PUSH THE PUMP INWARDS AND PROVIDE CLEARANCE FOR THE SPEEDBUMP RING.

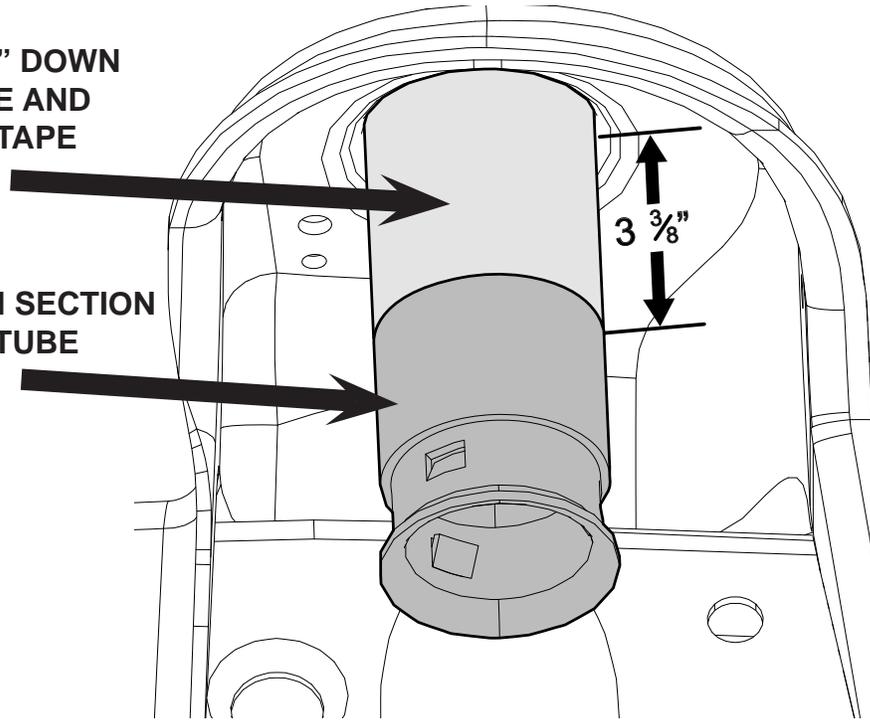
MAKE SURE THIS HOSE CLAMP DOES NOT RUB ON ANY OTHER HOSES. ADJUST HOSES AS NEEDED.



MARK AND CUT OFF THE BOTTOM OF THE JOUNCE TUBE.

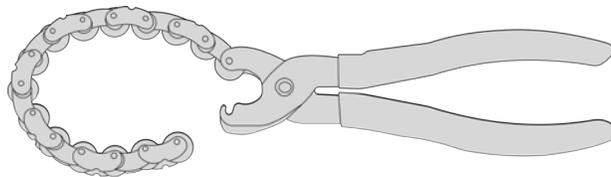
**MEASURE 3 3/8" DOWN
JOUNCE TUBE AND
MARK WITH TAPE**

**CUT OFF BOTTOM SECTION
OF JOUNCE TUBE**

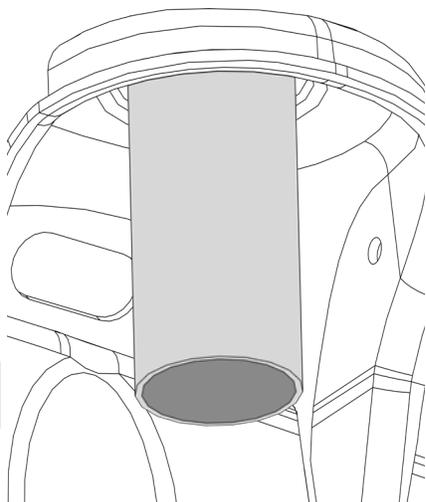


2X
12

**TIP: USE PIPE CUTTER'S
SUCH AS THESE FOR AN
EASY STRAIGHT CUT.**

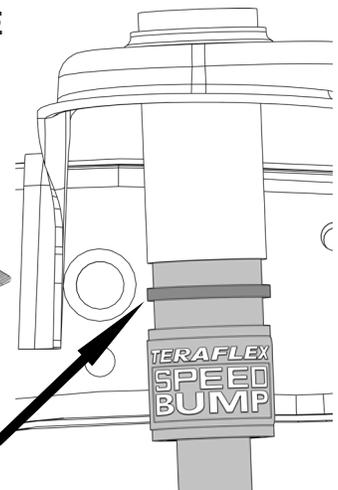


**USE A FILE TO REMOVE
ALL SHARP EDGES**



2X
13

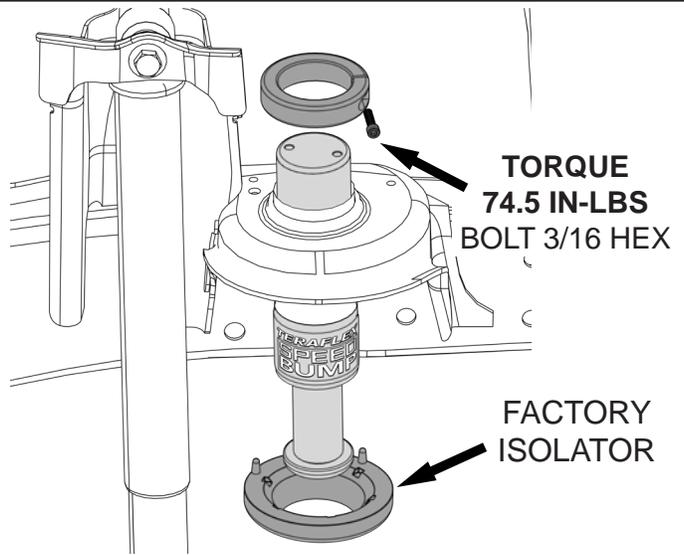
**APPLY RTV TO THE
UPPER PORTION
OF THE SPEED
BUMP**



2X
14

**OPTION: INSTALL SLEEVE SPACERS
AT THIS TIME, REFER TO PAGE 13
FOR SPEEDBUMP SPACER GUIDE.**

WHILE PUSHING THE SPEEDBUMP UPWARDS, INSTALL THE RETAINER CLAMP AND TIGHTEN. REINSTALL THE FACTORY SPRING ISOLATOR.



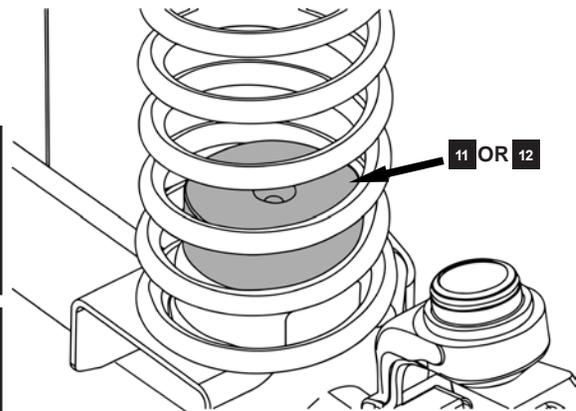
2X

15

PLACE BUMPSTOP SPACERS INTO SPRINGS AND REINSTALL SPRINGS

INSTALL BUMPSTOP SPACER INTO THE SPRING WITH THE COUNTER SUNK OPENING FACING UP.

NOTE: DIESEL VEHICLES ARE REQUIRED TO RUN AT LEAST A 5/8" SPACER ON THE FRONT TO ENSURE CLEARANCE FOR THE FRONT AXLE

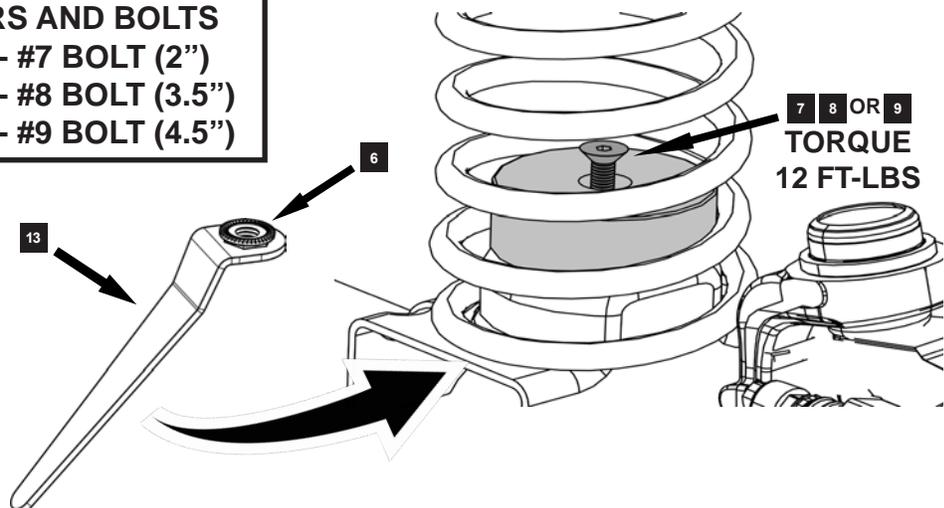


2X

16

NOTE: FOR RECOMMENDED AMOUNT OF SPACERS WITH PREFERRED TIRE SIZE, REFER TO PAGE 13 FOR SPEED-BUMP SPACER GUIDE.

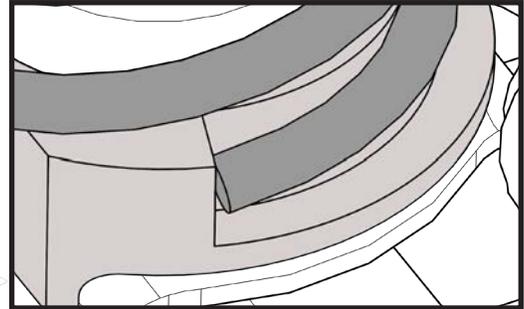
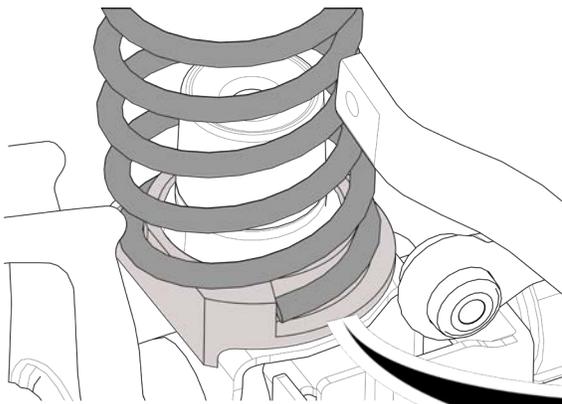
NOTE: SPACERS AND BOLTS
1 SPACER ----- #7 BOLT (2")
2 SPACERS ----- #8 BOLT (3.5")
3 SPACERS ----- #9 BOLT (4.5")



2X

17

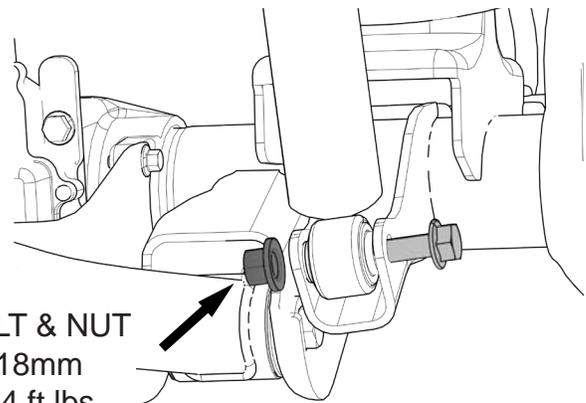
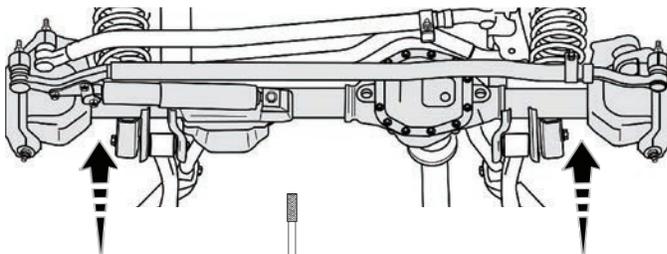
FULLY SEAT THE SPRINGS INTO THE LOWER SPRING ISOLATOR



2X

18

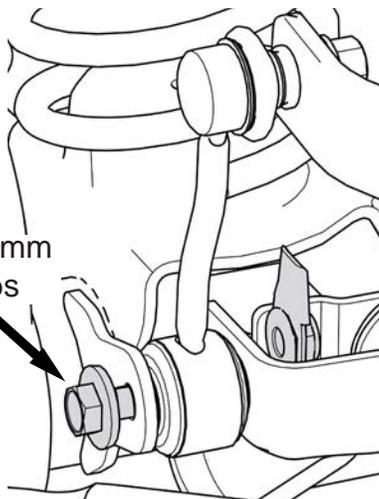
RAISE AXLE & REINSTALL SHOCKS



2X

19

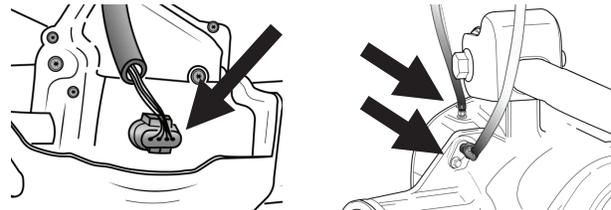
REINSTALL SWAY BAR LINKS AT AXLE



2X

20

RECONNECT CONNECTIONS TO FRONT AXLE



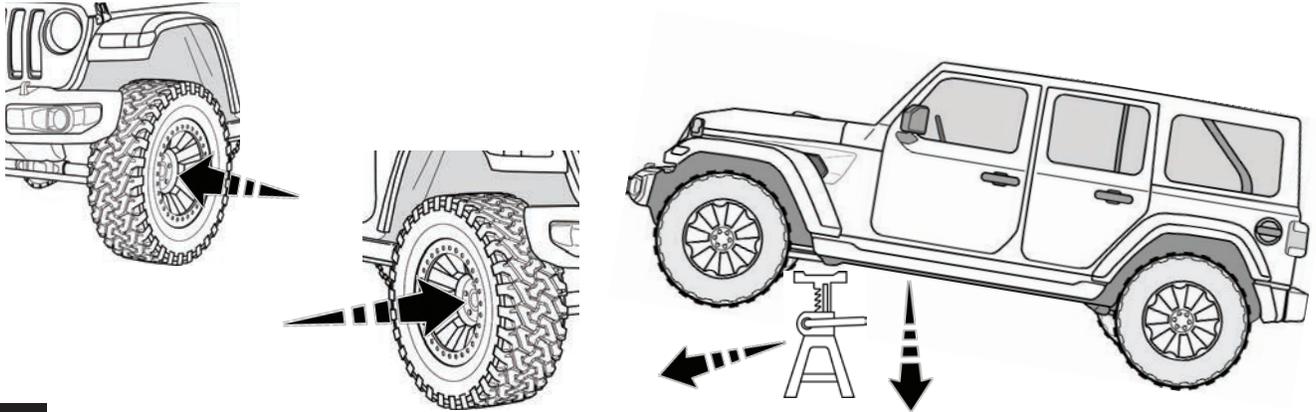
RECONNECT PLASTIC RETAINERS FROM WIRING OR HOSES AS NEEDED.

NOTE: DO NOT TIGHTEN THE CONTROL ARM BOLTS UNTIL THE JEEP IS ON THE GROUND

WAIT TO RE-INSTALL TRACK BAR UNTIL THE JEEP IS LOWERED TO THE GROUND

21

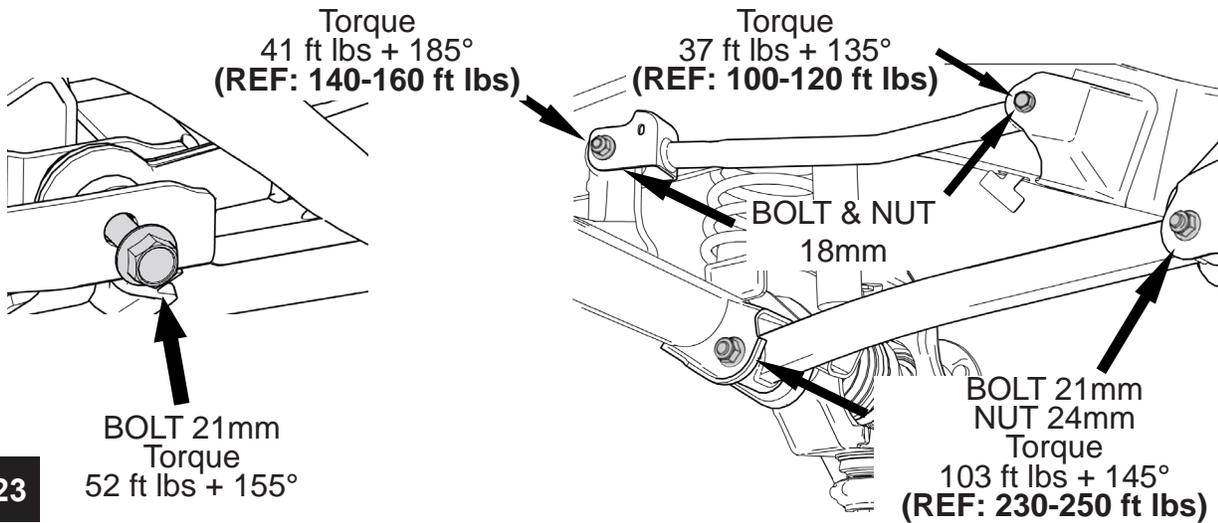
REINSTALL TIRES AND LOWER JEEP BACK TO THE GROUND



22

TORQUE TO 130 FT LBS

REINSTALL FRONT TRACK BAR AND TORQUE TO 52 FT. LBS PLUS 155° TORQUE FRONT CONTROL ARM BOLTS

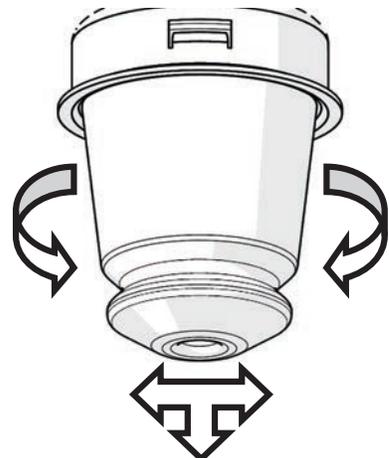


23

REAR INSTALL

NOTE: REAR INSTALL CAN BE COMPLETED WITHOUT RAISING THE JEEP.

TWIST AND PULL DOWN TO REMOVE FACTORY BUMPSTOPS FROM THE FRAME.

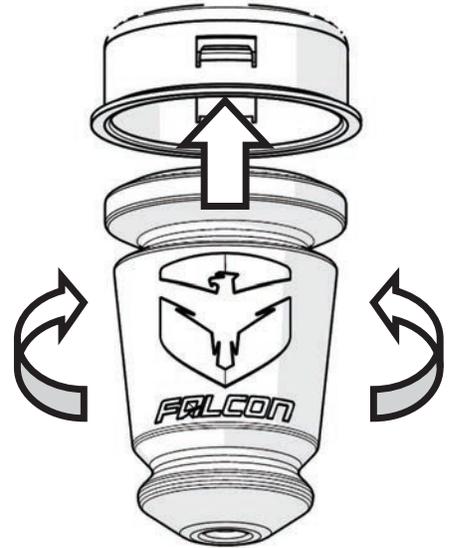


2X

24

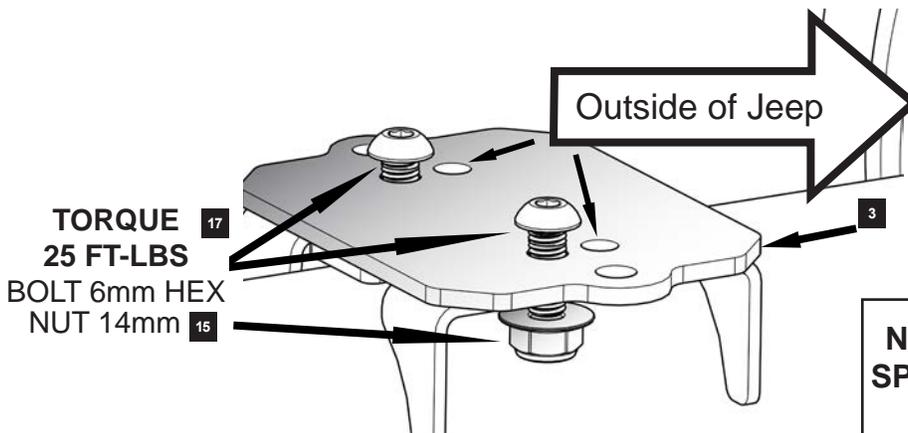
TWIST AND PUSH UP TO INSTALL THE FALCON BUMPSTOPS.

NOTE: IF NEEDED USE SILICONE LUBE SPRAY TO HELP INSTALL THE BUMPSTOPS.

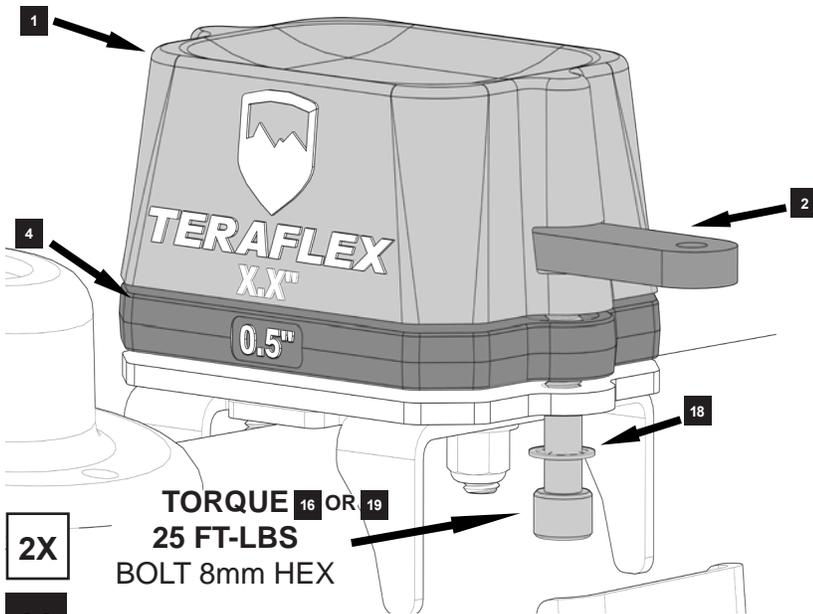


2X

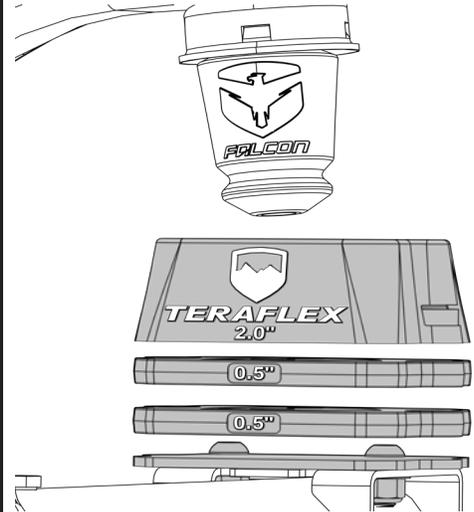
25



NOTE: FOR 3 OR MORE .5" SPACERS USE THE LONGER HARDWARE #18.



NOTE: REFER TO PAGE 14 FOR BUMPSTOP SPACER GUIDE



2X

26

JL|JT SPEEDBUMP TIRE CLEARANCE GUIDE for vehicles with FACTORY FENDER FLARES

TeraFlex SpeedBumps include spacer sleeves and strike pad spacers to limit suspension up travel. This allows for the use of larger tires with the factory fender flares.

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

In order to address these fender differences, TeraFlex designed a SpeedBump system that can be adapted to fit several different tire size configurations.

RUBICON

with Factory Fender Flares:

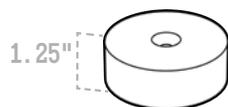
33" TIRES

- No Spacer Sleeves or Strike Pad Spacers
- ***Eco-Diesel requires a minimum of 0.625" Strike Pad Spacer
- ***392 requires a minimum of 1.25" Strike Pad Spacer

Compatible Lift Kit Heights: 1.5"

35" TIRES

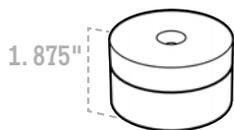
- x1 Strike Pad Spacer (1.25")



Compatible Lift Kit Heights: 2.5"-4.5"

37" TIRES

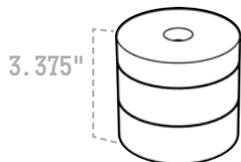
- x1 Strike Pad Spacer (0.625")
- x1 Strike Pad Spacer (1.25")



Compatible Lift Kit Heights: 2.5"-4.5"

39" TIRES

- x1 Strike Pad Spacer (0.625")
- x2 Strike Pad Spacer (1.25")



Compatible Lift Kit Heights: 4.5"

Included are Spacer Sleeves (0.25") and two different heights of Strike Pad Spacers (1.25" & 0.625").

The SpeedBump is 0.75" longer than the factory jounce tube. The given configurations take this into account.

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 other suspension components.

SPORT & SAHARA/OVERLAND

with Factory Fender Flares:

33" TIRES

- No Spacer Sleeves or Strike Pad Spacers
- ***Eco-Diesel requires a minimum of 0.625" Strike Pad Spacer
- ***392 requires a minimum of 1.25" Strike Pad Spacer

Compatible Lift Kit Heights: 1.5"

35" TIRES

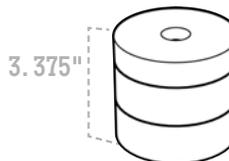
- x2 Spacer Sleeves (0.25")
- x1 Strike Pad Spacer (0.625")
- x1 Strike Pad Spacer (1.25")



Compatible Lift Kit Heights: 2.5"-4.5"

37" TIRES

- x1 Strike Pad Spacer (0.625")
- x2 Strike Pad Spacer (1.25")



Compatible Lift Kit Heights: 4.5"

Notes:

- Due to varying jounce tube lengths, the Eco-Diesel and 392 trims require additional strike pad spacers be installed. Add the following to the spacer stack:

- Eco-Diesel - Add a 0.625" spacer to the stack
- 392 - Add a 1.25" (or two 0.625") spacer(s) to the stack

- If installing 39"+ tires, it is recommended that you replace the factory fender flares.

- A minimum of 2" total bump stop is needed if 3.5"-4.5" Lift Falcon Shocks are installed. The SpeedBump accounts for 0.75" of the total bump stop.



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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.

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 RUBICON

with Factory Fender Flares:

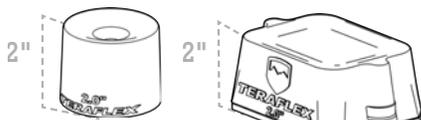
33" TIRES

- No Front or Rear Bump Stops

Compatible Lift Kit Heights: 1.5"

35" TIRES

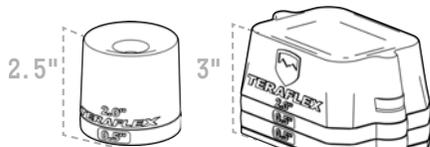
- 2" Front & 2" Rear Bump Stops



Compatible Lift Kit Heights: 2.5"-4.5"

37" TIRES

- 2.5" Front & 3" Rear Bumps



Compatible Lift Kit Heights: 2.5"-4.5"

JL SPORT/SAHARA

with Factory Fender Flares:

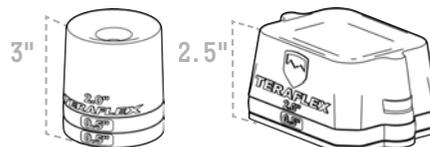
33" TIRES

- No Front or Rear Bump Stops

Compatible Lift Kit Heights: 1.5"

35" TIRES

- 3" Front & 2.5" Rear Bump Stops

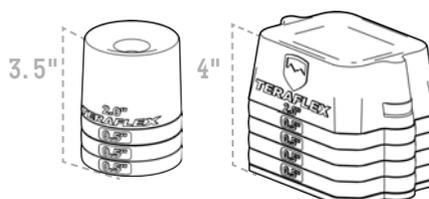


Compatible Lift Kit Heights: 2.5"-4.5"

37" TIRES

- 3.5" Front & 4" Rear Bump Stops

**Additional Bump Stops Required



Compatible Lift Kit Heights: 4.5"

Notes:

- If installing on an Eco-Diesel or 392 Wrangler, the factory jounce tubes are longer. Subtract the following amount from the front bumpstop stack as stated above:

- **Eco-Diesel - Subtract 1.375" from the front bump stop stack.**
- **392 Wrangler - Subtract 1.875" from the front bump stop stack.**

- 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 3.5"-4.5" Lift Falcon Shocks are installed, then a minimum of 2" bump stop is needed.



TERAFLEX

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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