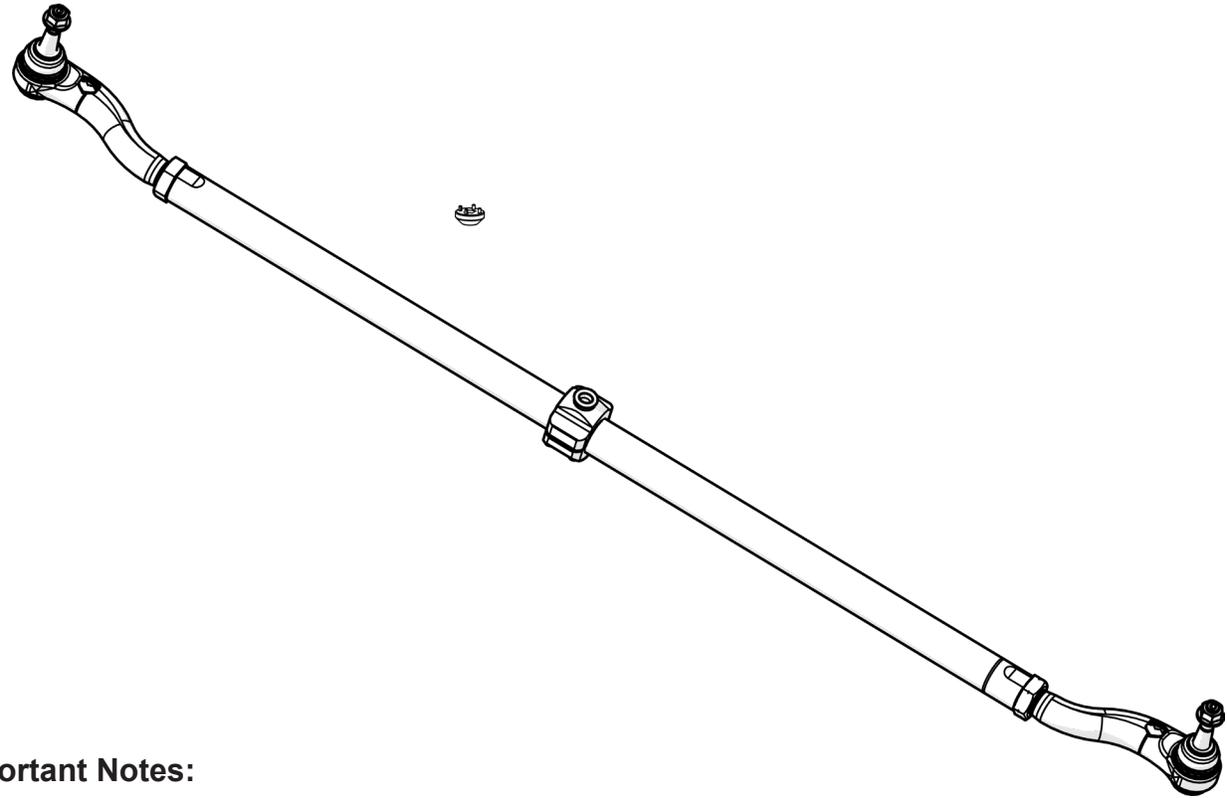




# JL,JT PREMIUM HD TIE ROD KIT

www.TERAFLEX.com

# 1863910



### 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.

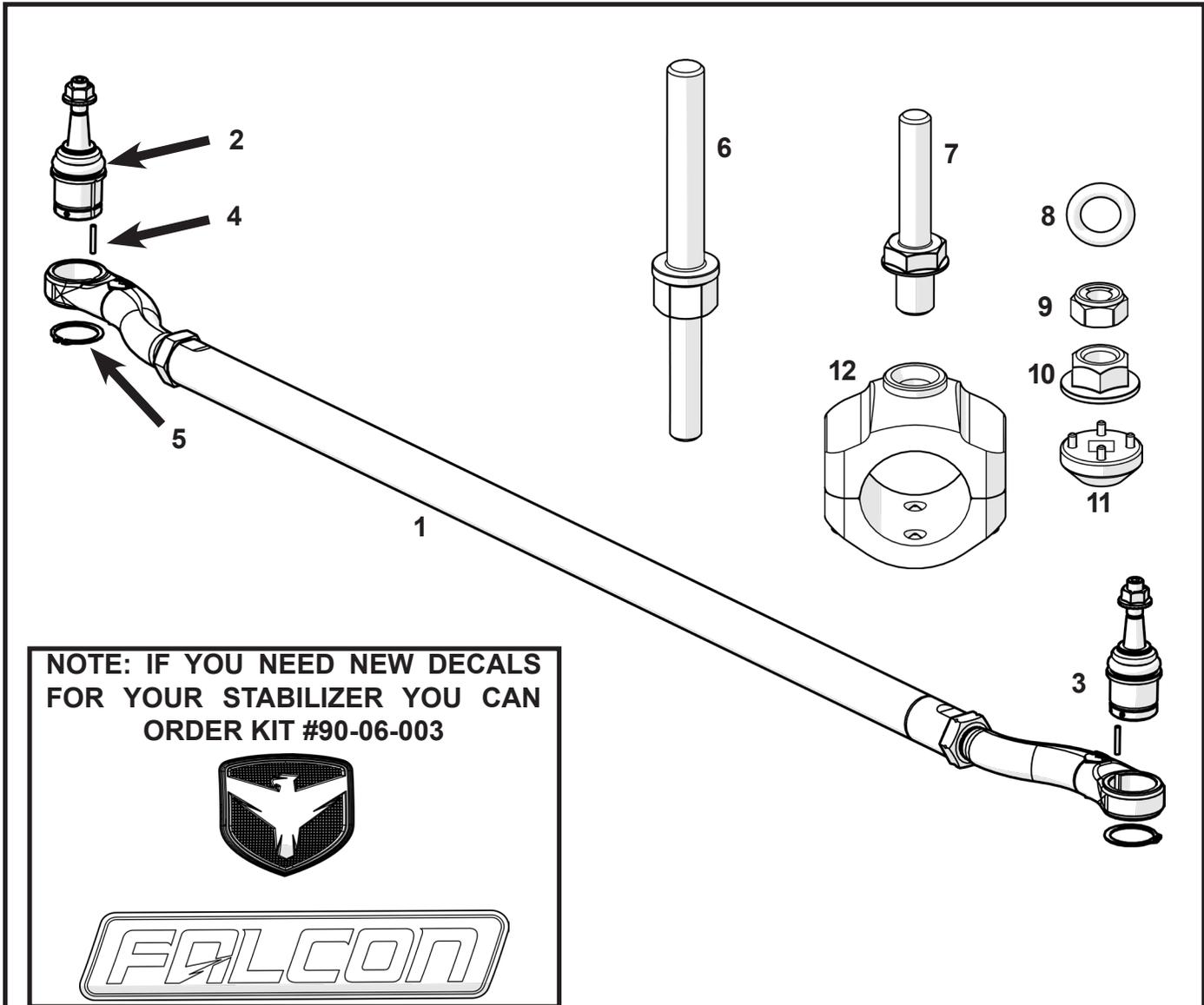
**When reinstalling OEM hardware, refer to the torque specs given in the Factory Service Manual.**

### Tools Needed:

- Metric Sockets and Open End Wrenches
- Torque Wrench
- Factory Service Manual
- 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.

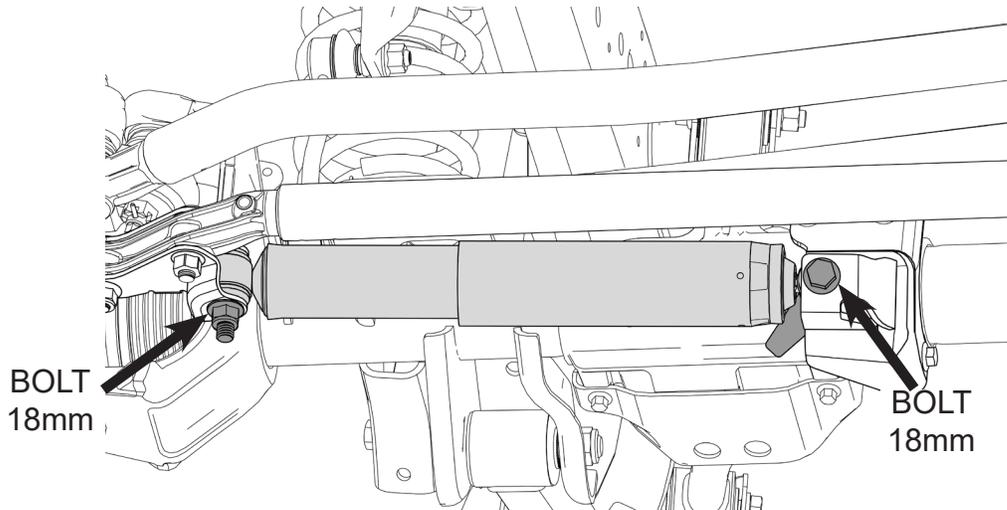


**NOTE: IF YOU NEED NEW DECALS FOR YOUR STABILIZER YOU CAN ORDER KIT #90-06-003**



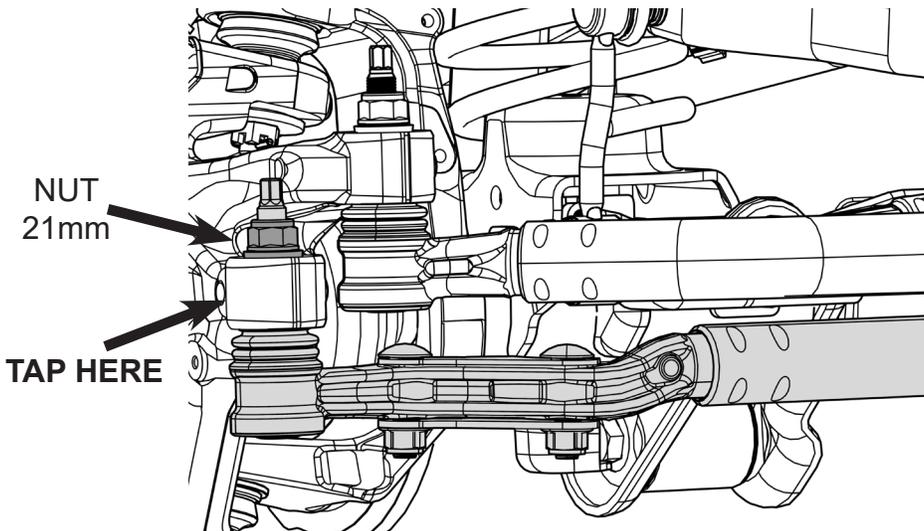

Item #	Part No.	Description	QTY
1	863915	JL,JT HD Chromoly Tie Rod Assembly	1
2	31-01-001-100	Jeep JL,JT Wrangler, Anti-Wobble Ball Joint Assembly	1
3	31-01-001-200	Jeep JL,JT Wrangler, Ball Joint Assembly	1
4	344401	HD Steering Ball Joint Rolled Pin Alignment Key	2
5	845	Snap Ring for HD Series Steering and Axle Ball Joints	2
6	23-01-02-009	Stud, Post Mount, M12 x 1.75 / M14 x 1.5	1
7	23-01-02-010	Stud, Post Mount, M12x1.75/ 9/16 - 24	1
8	16-01-21-060-6	O-Ring, Round X-Section, .210" Width, 0.600" ID	1
9	23-07-02-002	Fuji Nut, M12 x 1.75, Black	2
10	45-08-004-005	Flange Top Lock Nut, M14 X 1.5	1
11	344000	HD Ball Joint Adjusting Tool	1
12	5125	1 5/8" Tie Rod Clamp, Jeep JL,JT Wrangler	1

### REMOVE THE OEM STEERING STABILIZER

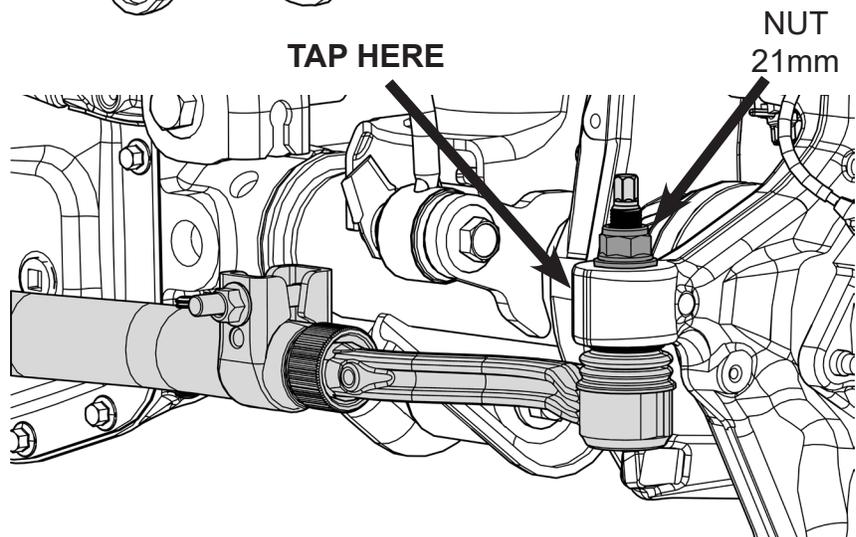


1

### REMOVE THE OEM TIE ROD FROM THE AXLE

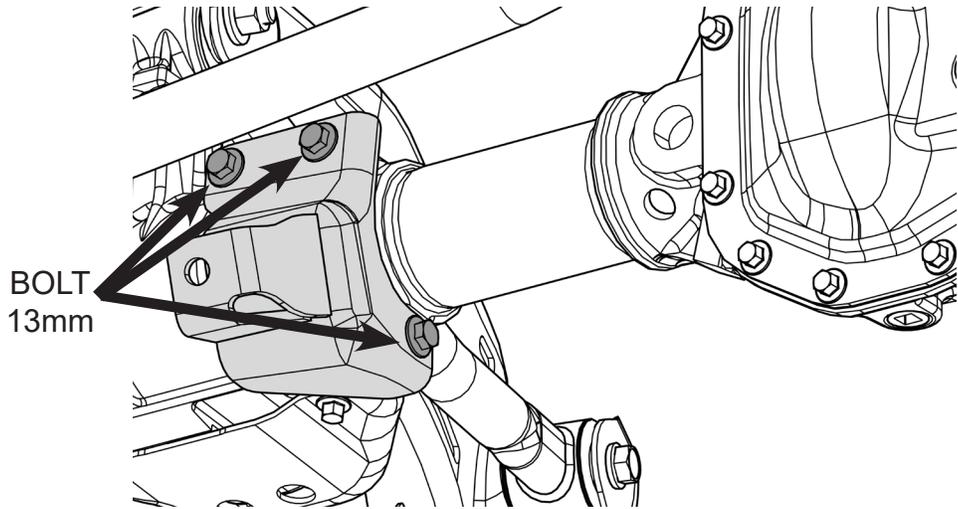


**LOOSEN THE NUTS TO THE LAST FEW THREADS. TAP KNUCKLE WITH A HAMMER UNTIL THE TIE ROD BREAKS FREE AND THEN FULLY REMOVE THE TIE ROD**



2

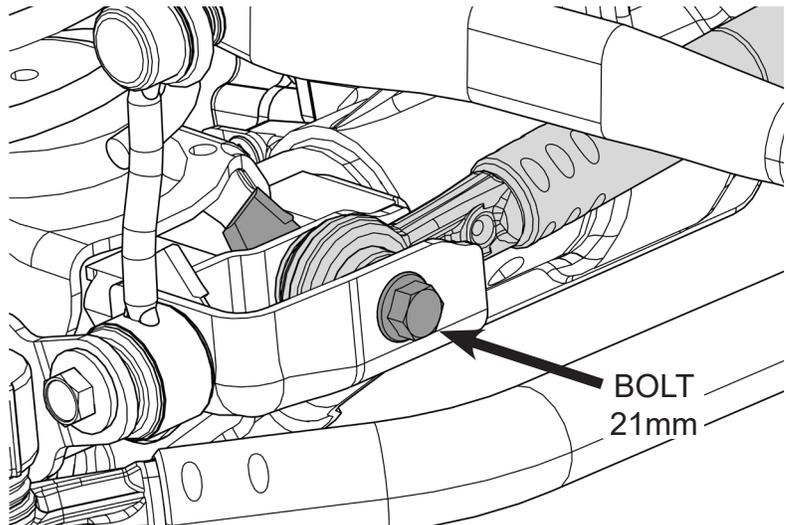
**REMOVE THE OEM STEERING STABILIZER BRACKET FROM THE AXLE**



3

**REMOVE THE OEM TRACK BAR BOLT AT THE AXLE**

**SUPPORT THE AXLE AND  
KEEP IT LEVEL TO MAKE THE  
NEXT STEP OF INSTALLATION  
EASIER**

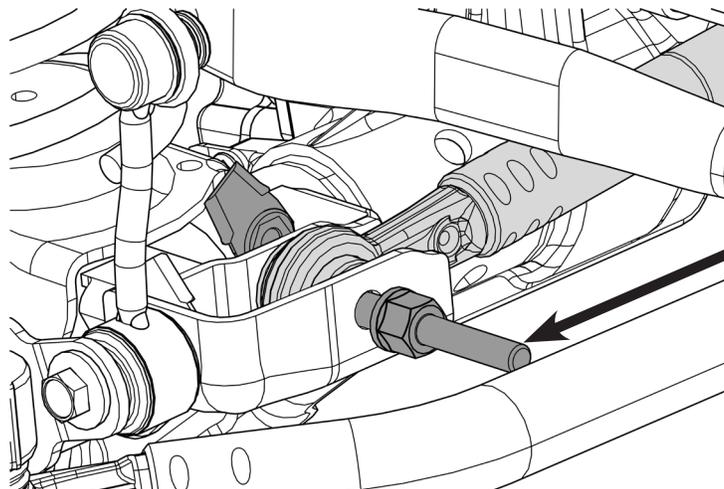


4

**INSTALL THE NEW TRACK BAR STUD**

**DO NOT TIGHTEN  
UNTIL THE JEEP IS ON  
THE GROUND**

**NOTE:  
REFER TO PAGE 12  
IF YOU ARE USING A  
FRONT TRACK BAR  
BRACKET**

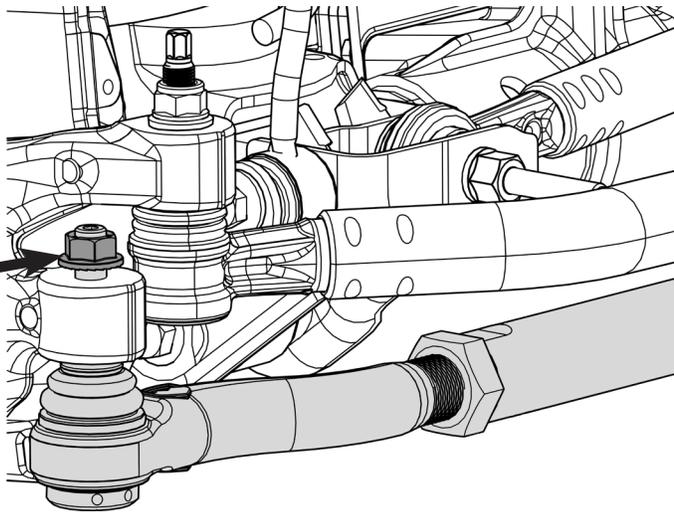


5

### ASSEMBLE AND INSTALL THE NEW TIE ROD

**SET THE NEW HD TIE ROD TO THE SAME LENGTH AS THE OEM TIE ROD PREVIOUSLY REMOVED**

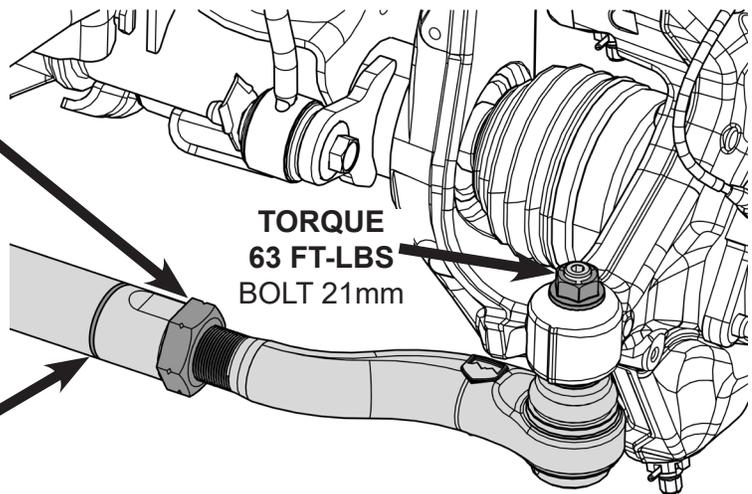
**TORQUE  
63 FT-LBS  
BOLT 21mm**



**NOTE:  
REFER TO PAGE 11 IF  
INSTALLING WITH AFTER  
MARKET BRAKES**

**NOTE: THE TIE ROD FORGING WITH THE NOTCHED JAM NUT NEEDS TO BE INSTALLED ON THE SIDE OF THE TIE ROD WITH THE GROOVE. THIS WILL BE THE DRIVERS SIDE**

**TORQUE  
63 FT-LBS  
BOLT 21mm**



**GROOVE**

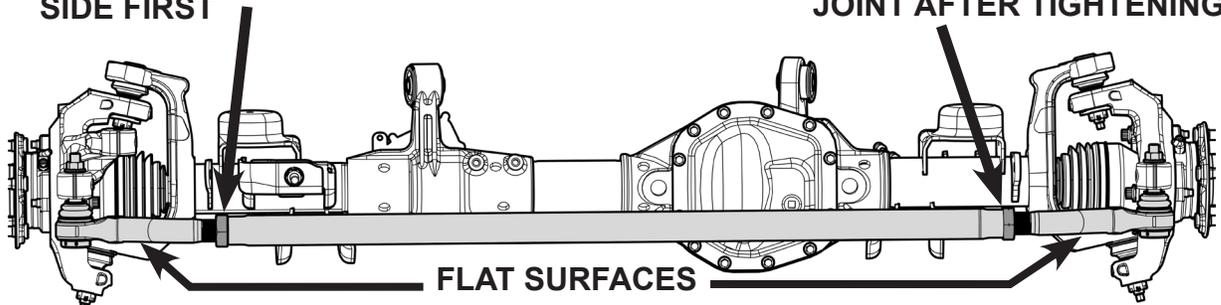
**6**

### TIGHTEN THE JAM NUTS

**MAKE SURE THE TIRES ARE STRAIGHT BEFORE TIGHTENING THE JAM NUTS**

**MAKE SURE THE FLAT SURFACES OF THE FORGED ENDS ARE PARALLEL TO EACH OTHER SO THAT THE STUD IS CENTERED IN THE JOINT AFTER TIGHTENING**

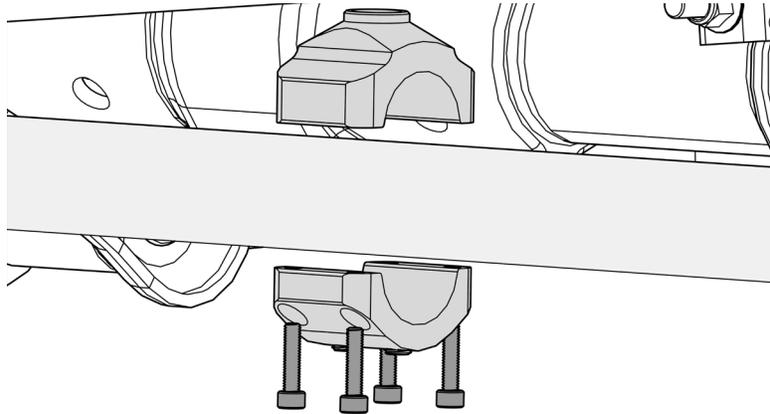
**TIGHTEN THE PASSENGER SIDE FIRST**



**FLAT SURFACES**

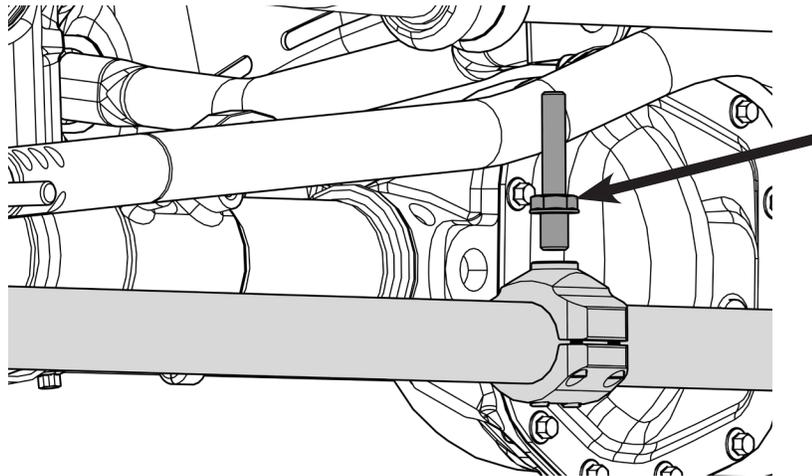
**7**

**\*REFER TO PAGE 8 IF YOU ARE REINSTALLING AN EXISTING FALCON STABILIZER\***  
**LOOSLY INSTALL THE TIE ROD STEERING STABILIZER BRACKET**



**8**

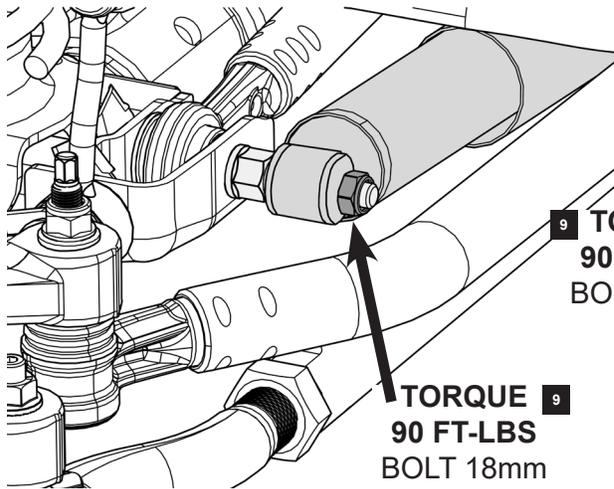
**INSTALL THE STEERING STABILIZER STUD INTO THE TIE ROD BRACKET**



**TORQUE <sup>7</sup>**  
**90 FT-LBS**  
**BOLT 21mm**

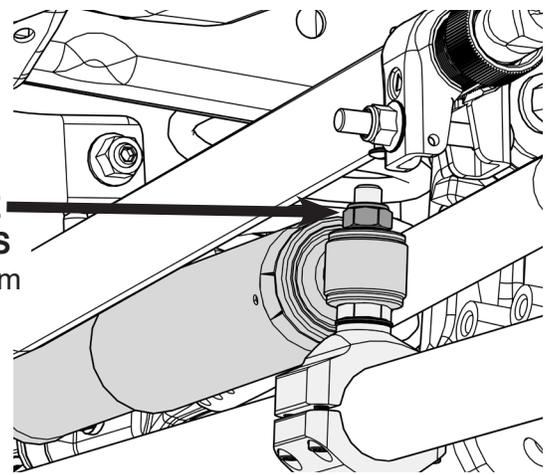
**9**

**REINSTALL THE STEERING STABILIZER**



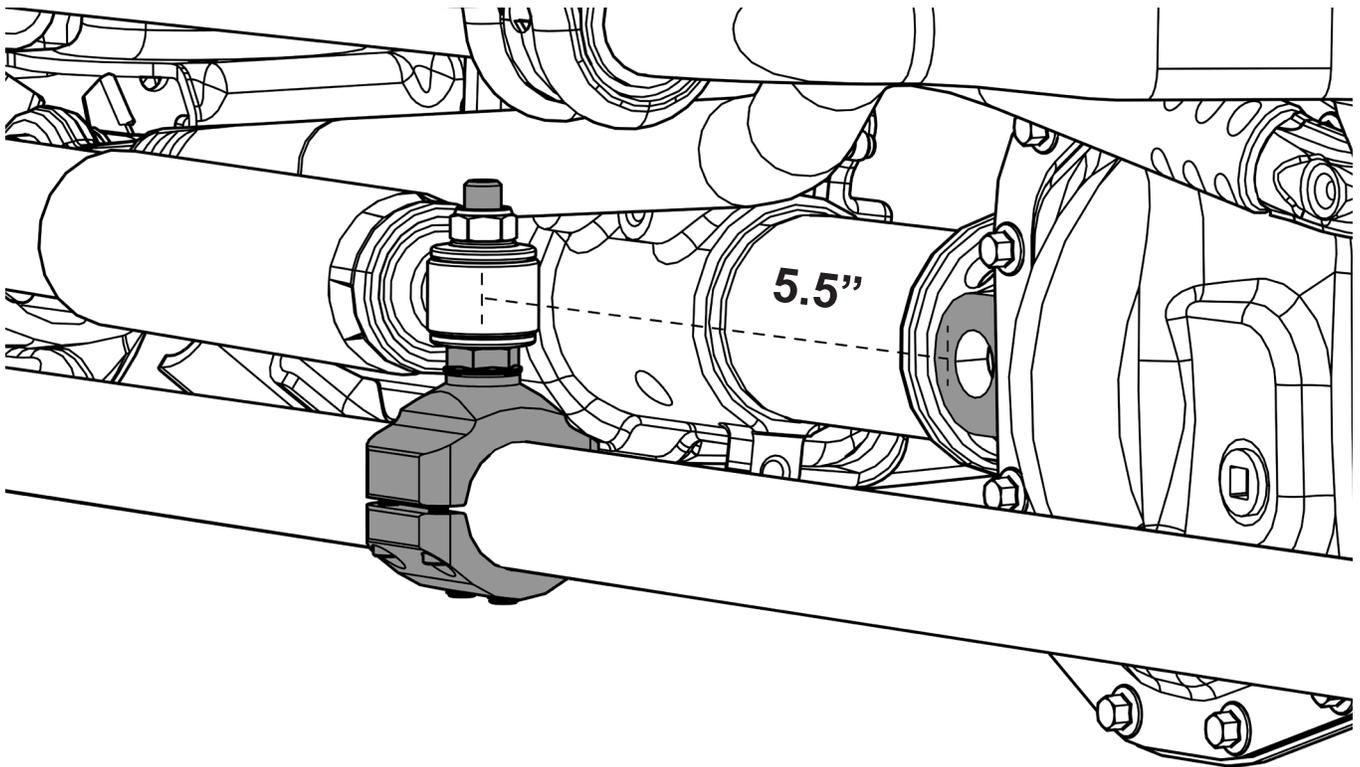
**TORQUE <sup>9</sup>**  
**90 FT-LBS**  
**BOLT 18mm**

**10**



**TORQUE <sup>9</sup>**  
**90 FT-LBS**  
**BOLT 18mm**

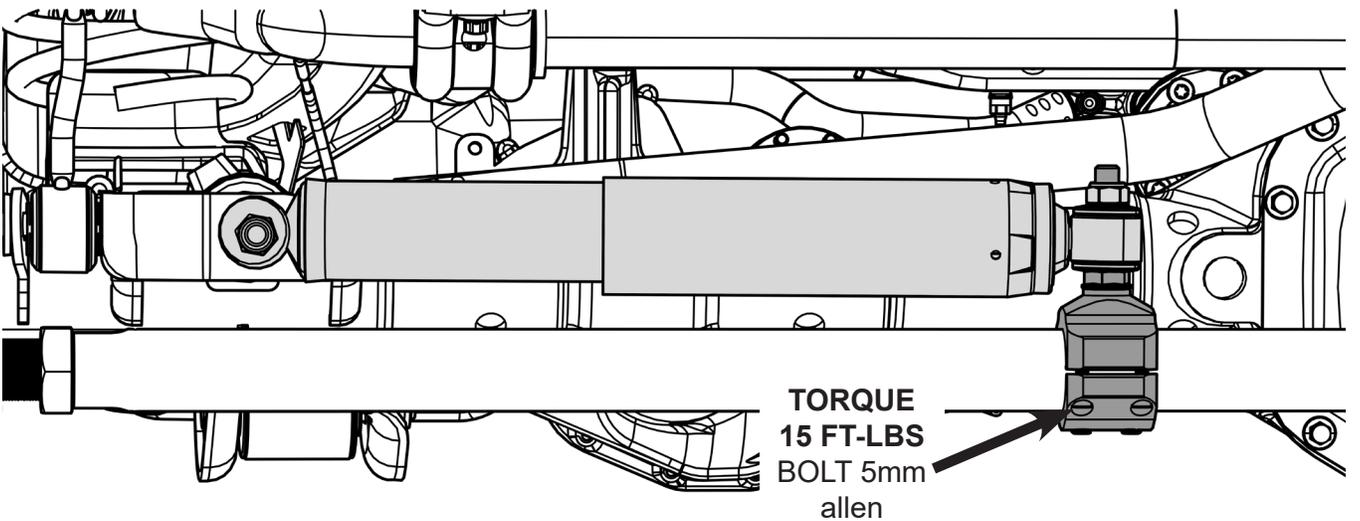
**ORIENT THE STEERING STABILIZER FOR OPTIMAL CLEARANCE**



**11**

**WITH THE TIRES STRAIGHT COMPRESS THE STABILIZER TO HALF ITS LENGTH. ANGLE THE STABILIZER TOWARDS THE AXLE TO ABOUT 5.5" FROM THE FLAT SURFACE OF THE HOUSING AS SHOWN ABOVE.**

**FINISH INSTALLING THE STEERING STABILIZER**

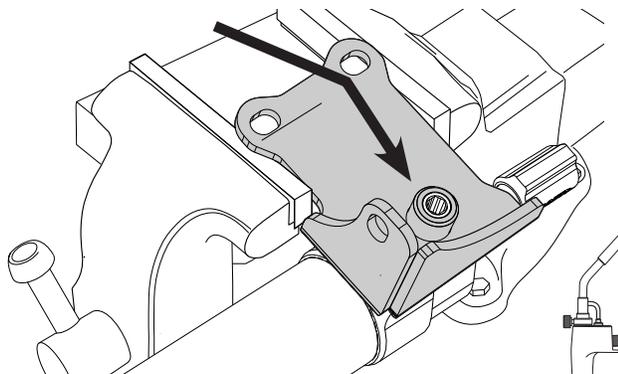
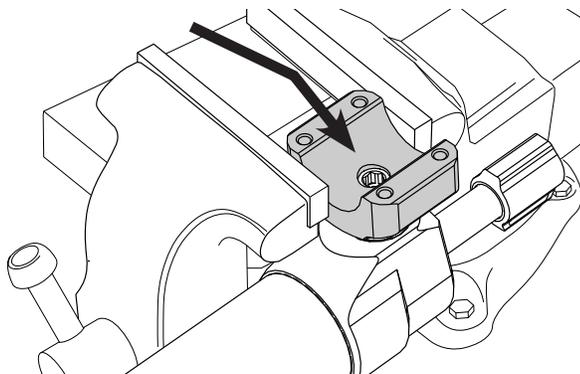


**12**

**TORQUE THE TIE ROD CLAMP.  
CYCLE THE STEERING TO ENSURE PROPER INSTALLATION.**

### PLACE STABILIZER IN VISE

SECURE CLAMP/BRACKET IN VISE AND  
HEAT AROUND STUD TO LOOSEN THREAD LOCK



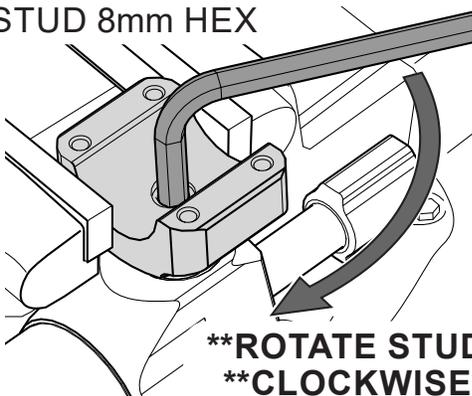
**NOTE: EXERCISE CAUTION WHILE HEATING  
AND PLEASE USE PERSONAL PROTECTIVE EQUIPMENT**

1

### REMOVE OLD CLAMP

#### REMOVE CLAMP

STUD 8mm HEX



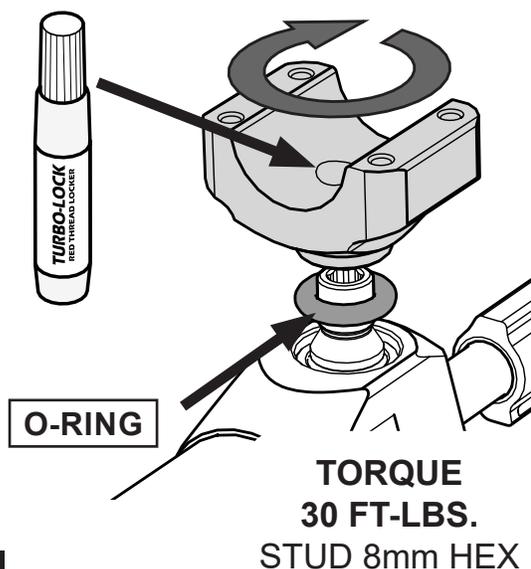
**NOTE: STUD SHOULD BREAK  
LOOSE EASILY  
REPEAT HEATING (STEP 2)  
AS NEEDED**

2

### INSTALL NEW CLAMP

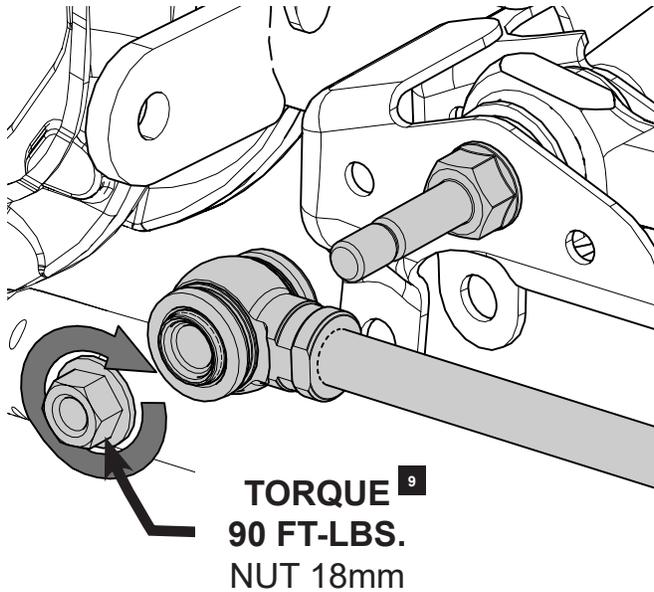
INSTALL PROVIDED O-RING  
ONTO THE STUD

APPLY THREAD LOCK TO  
NEW CLAMP AND INSTALL

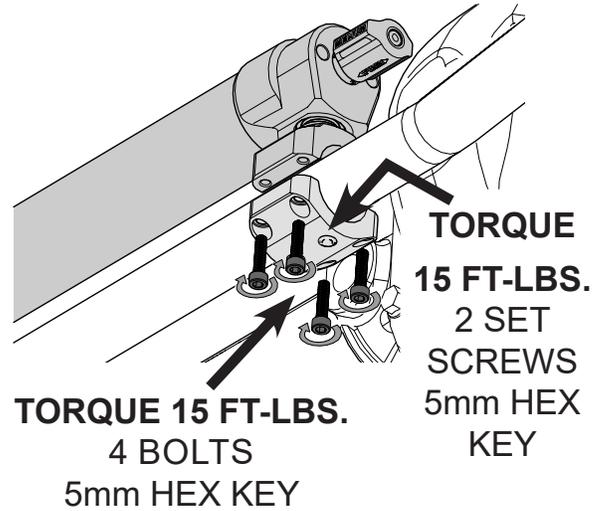


3

### REINSTALL STEERING STABILIZER AND VERIFY CLEARANCE AND FIT

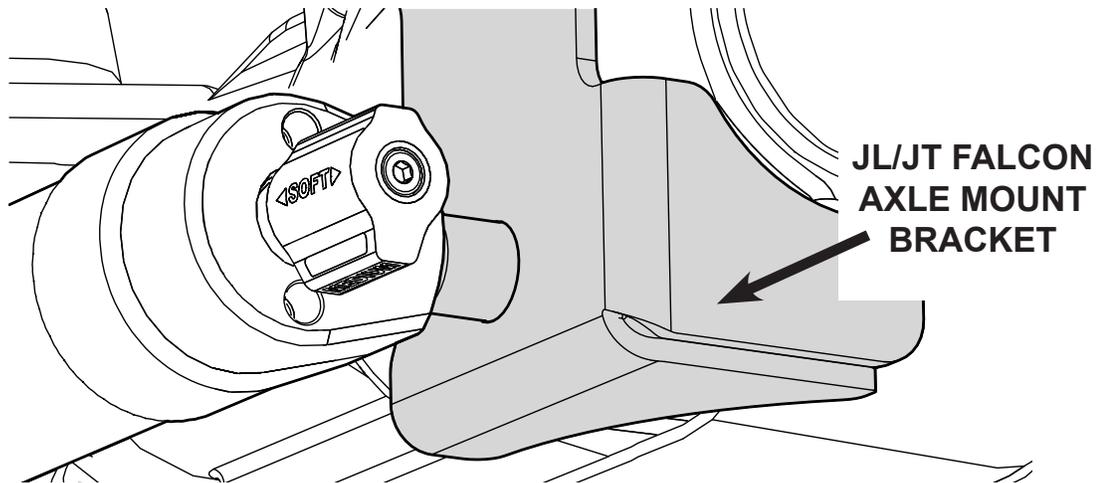


CENTER THE SHAFT ON THE STABILIZER AND INSTALL



**NOTE: CYCLE THE SUSPENSION AND STEERING TO CHECK FOR PROPER SHOCK BODY CLEARANCE AND TRAVEL  
 ADJUST CLAMP POSITION ON TIE ROD AS NEEDED**

4

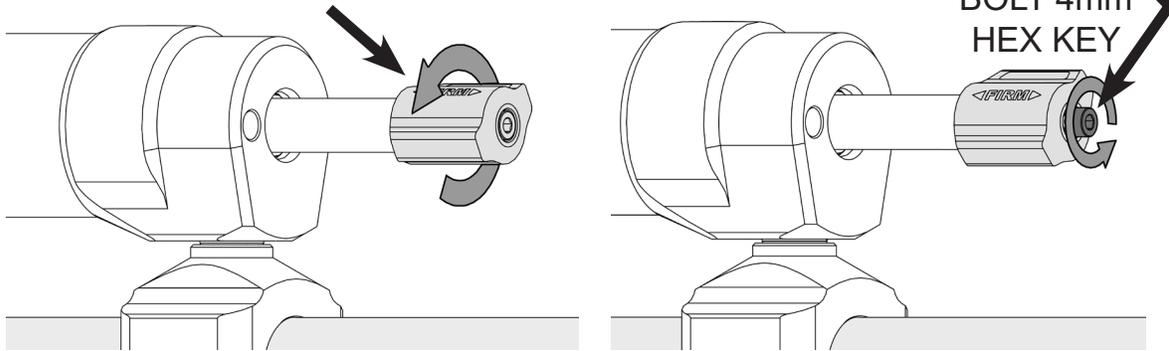


**NOTE: JL/JT FALCON STEERING STABILIZERS THAT WERE ORIGINALLY INSTALLED WITH AN AXLE MOUNT BRACKET (AS SEEN ABOVE) WILL NEED THE ADJUSTMENT KNOB RE-CLOCKED AND NEW DECALS INSTALLED. IT IS EASIER TO REMOVE THE OLD DECALS WHILE THE STABILIZER IS OFF THE JEEP. STEPS FOR RE-CLOCKING ADJUSTMENT KNOB ARE ON NEXT PAGE.**

### RE-CLOCKING ADJUSTMENT KNOB (ONLY ADJUST IF NEEDED, SEE NOTE ON PREVIOUS PAGE)

ROTATE KNOB  
COUNTER CLOCKWISE

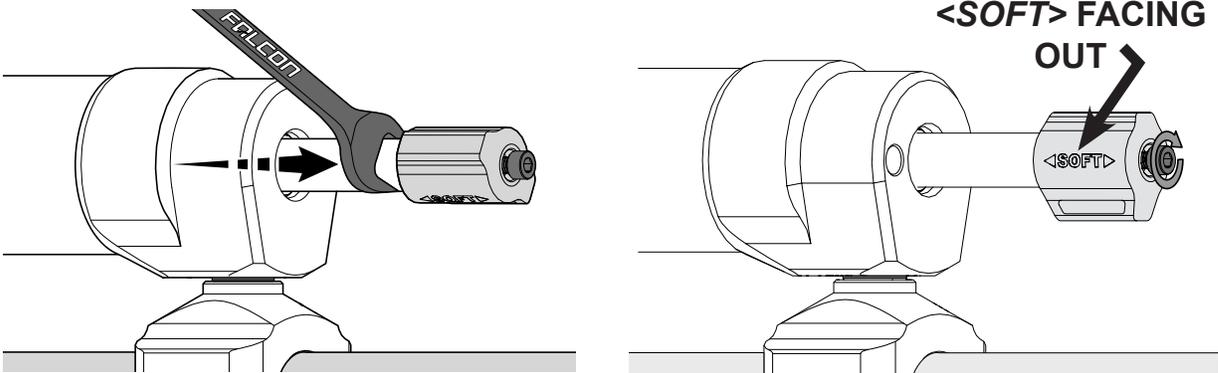
LOOSEN  
BOLT 4mm  
HEX KEY



1

USE A WRENCH TO TAP KNOB LOOSE FROM SHAFT  
AND REPOSITION KNOB WITH <SOFT> FACING OUT

<SOFT> FACING  
OUT

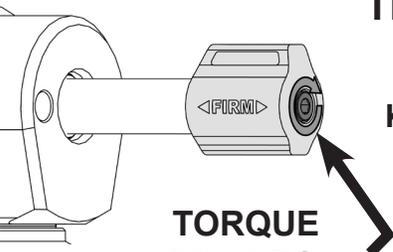


2

TIGHTEN KNOB BOLT

WHEN KNOB BOLT STARTS TO GET TIGHT ALLOW  
KNOB TO ROTATE TO THE FIRM POSITION AND FINISH  
TIGHTENING BOLT.

TORQUE  
8 IN. LBS.  
4mm HEX  
KEY

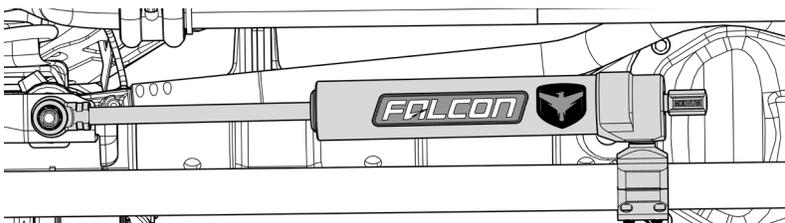


3

TEST FUNCTION OF KNOB FOR PROPER PLACEMENT,  
ADJUST IF NEEDED, AND SET TO DESIRED STIFFNESS

PLACE THE NEW DECALS ON THE FRONT OF THE STABILIZER

NOTE:  
IF YOU NEED NEW  
DECALS FOR YOUR  
STABILIZER YOU CAN  
ORDER KIT #90-06-003



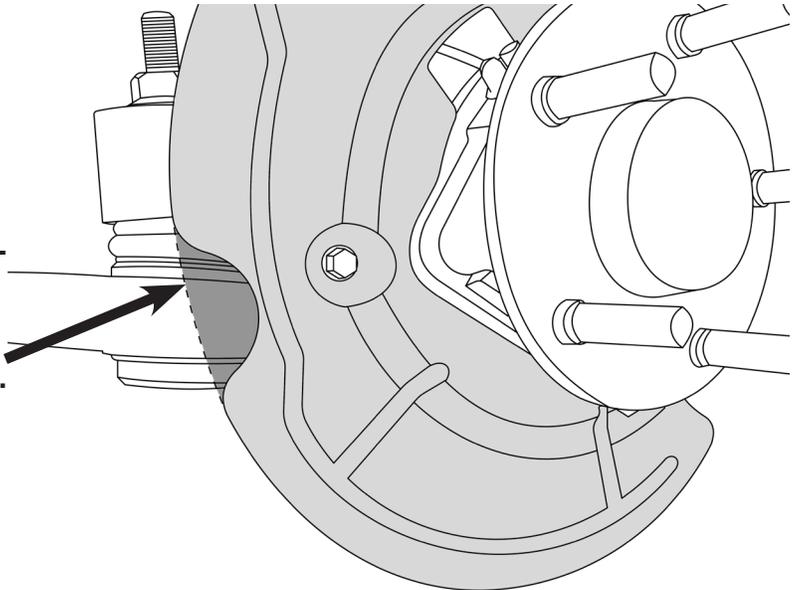
4

## OTHER NOTES

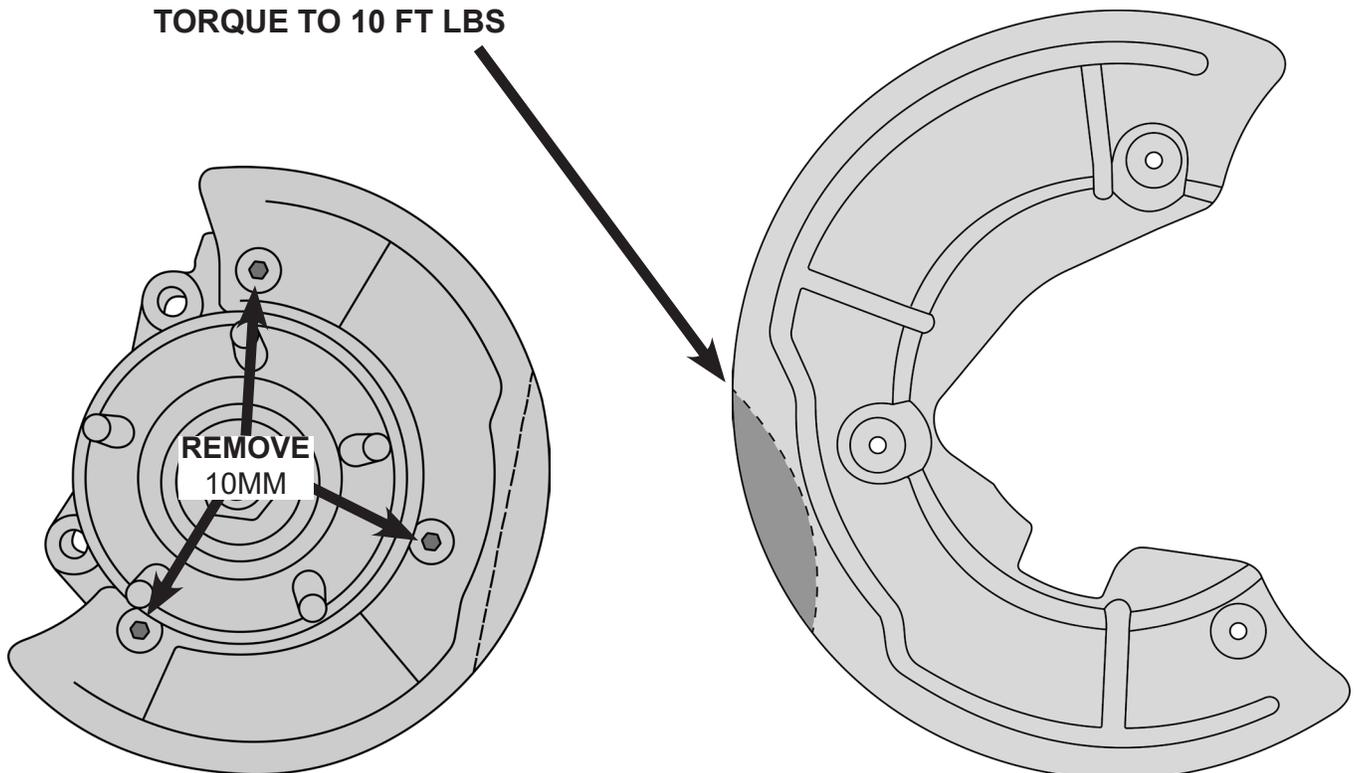
### INSTALLATION WITH AFTER MARKET BRAKES

IF YOU ARE INSTALLING AFTER MARKET BRAKES YOU MAY NEED TO TRIM THE FRONT BACKING PLATES.

TEST FIT THE TIE ROD AND MARK ON THE BACKING PLATE WHERE IT NEEDS TO BE MODIFIED.  
USE A BARREL SANDER TO MAKE A NOTCH IN THE BACKING PLATES.



IF YOU DON'T HAVE A BARREL SANDER, REMOVE THE BACKING PLATES AND USE SNIPS OR A CUTOFF WHEEL. REINSTALL THE BACKING PLATES AND TORQUE TO 10 FT LBS

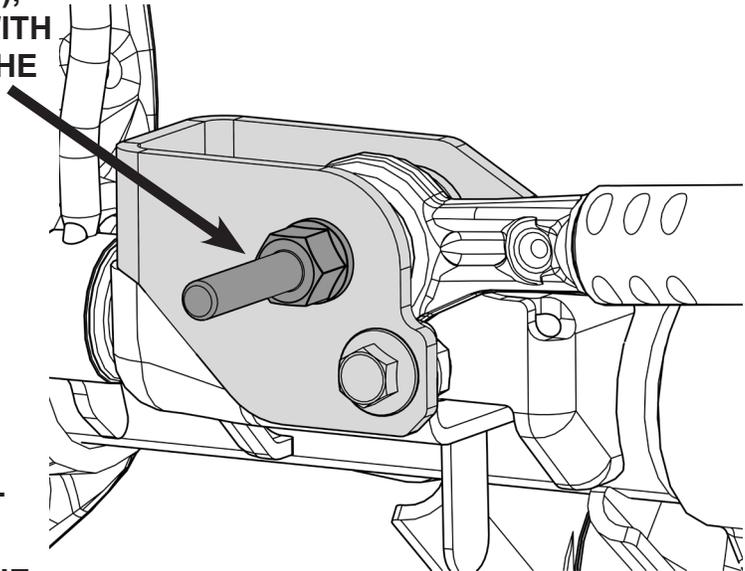


## OTHER NOTES

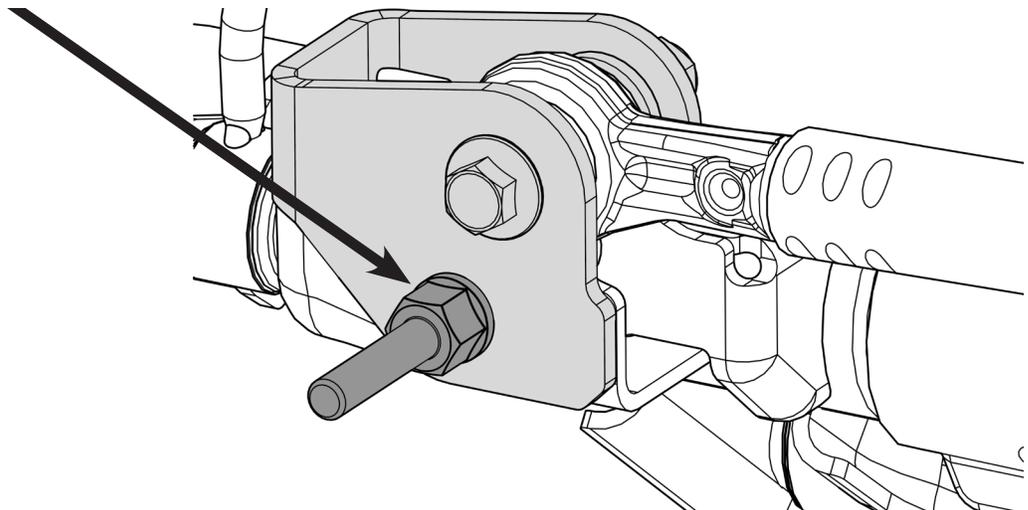
### INSTALLATION WITH AFTER MARKET TRACK BAR BRACKET

**NOTE: IF POSSIBLE, THE STABILIZER STUD SHOULD ALWAYS GO THROUGH THE ORIGINAL TRACK BAR MOUNT HOLE UNLESS A TRACK BAR BRACKET IS BEING USED THAT DOESN'T ALLOW FOR IT**

**IF YOU ARE USING OUR 2.5"-4" FRONT TRACK BAR BRACKET (# 1953250), REPLACE THE TRACK BAR BOLT WITH THE STABILIZER STUD AND USE THE OEM FLAG NUT OR THE INCLUDED FLANGE NUT TORQUE TO 200 FT LBS**



**IF YOU ARE USING OUR 4.5" FRONT TRACK BAR BRACKET (# 1953500), REPLACE THE LOWER BOLT WITH THE STABILIZER STUD AND USE THE OEM FLAG NUT OR THE INCLUDED FLANGE NUT TORQUE TO 200 FT LBS**



# 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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