



## 2015-PRESENT F-150 PERFORMANCE TRACTION BAR KIT

FITS 2WD/4WD ALL CABS

### LIMITED LIFETIME WARRANTY

This unique product warranty proves our commitment to the quality and reliability of every product that IHC Suspension manufactures. The IHC Suspension product warranty only extends to the original purchaser of any IHC Suspension product, if it breaks, we will give you a new part. Warranty does not apply to discontinued parts.

Our Limited Lifetime Warranty excludes the following IHC Suspension items, bushings, bump stops, ball joints, and shock absorbers. These parts are subject to wear and are not considered defective when worn. They are warranted for 12 months from the date of purchase for defects in workmanship.

**This product warranty is voided if the vehicle is not aligned after kit installation and proper maintenance is routinely done.**

Product purchased directly from IHC Suspension has a 30-day return policy on uninstalled products from the date of purchase (may be subject to restocking fee). Uninstalled product returns must be in the original IHC Suspension packaging. Please call 956-424-6901 to get an RMA# for any return. Customer is responsible for shipping costs back to IHC Suspension. **Returns without RMA# will be refused.** Contact IHC Suspension directly about any potentially defective parts prior to removal from vehicle.

IHC Suspension products are **NOT** intended for off-road abuse. Any damage or failure as a result of abuse voids the warranty of the IHC Suspension product. IHC Suspension is **NOT** responsible for any subsequent damages to any related vehicle parts due to misuse, abuse, improper installation, or lack of maintenance. Furthermore, IHC Suspension reserves the right to change, modify or cancel this warranty without prior notice.

If your IHC Suspension product has a damaged or missing part, please contact customer service directly and a new replacement part will be sent to you immediately. For warranty issues, please return to the place of installation and contact IHC Suspension.

(956) 424-6901

Monday-Friday 8AM-6PM CST

Or

Customer Service: [Sales@ihcsuspension.com](mailto:Sales@ihcsuspension.com)

Tech Support: [Tech@ihcsuspension.com](mailto:Tech@ihcsuspension.com)



# WARNING

READ INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE BEGINNING INSTALLATION

INSTALLATION BY A **CERTIFIED PROFESSIONAL TECHNICIAN** IS HIGHLY RECOMMENDED

IHC Suspension IS **NOT** RESPONSIBLE FOR ANY DAMAGE OR FAILURE RESULTING FROM IMPROPER INSTALLATION.

## **Safety Warning**

MISUSE OF THIS PRODUCT COULD LEAD TO INJURY OR DEATH.

Suspension systems or components that enhance the on and off-road performance of your vehicle may cause it to handle differently than it did from the factory. Extreme care must be used to prevent loss of control during abrupt maneuvers.

Always operate your vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Failure to drive safely may result in serious injury or death to driver and passengers.

Drivers and passengers must ALWAYS wear your seat belts, avoid quick sharp turns and other sudden maneuvers. IHC Suspension does not recommend the combined use of suspension drop spindles, drop struts, drop springs or other lowering devices.

You should never operate your vehicle under the influence of alcohol or drugs.

Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every drag race/race use.

It is the responsibility of the retailer and/or the installer to review all state and local laws, with the end user of this product, related to bumper height laws and the lowering of their vehicle before the purchase and installation of any IHC Suspension products.

It is the responsibility of the driver/s to check their surrounding area for obstructions, people, and animals before moving the vehicle.

All lowered vehicles may have increased blind spots; damage, injury and/or death can occur if these instructions are not followed.

## **Installation Warning**

All steps and procedures described in these instructions were performed while the vehicle was properly supported on a two-post vehicle lift with safety jacks.

Use caution during all disassembly and assembly steps to ensure suspension components are not over extended causing damage to any vehicle components and parts included in this kit.

Included instructions are guidelines only for recommended procedures and are not meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications.

IHC Suspension recommends the use of an OE Service Manual for model/year of vehicle when disassembly and assembly of factory and related components. Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual.

Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort.

Larger tire and wheel combinations may increase leverage on suspension, steering, and related components. Due to payload options and initial ride height variances, the amount of drop is a base figure. Final ride height dimensions may vary in accordance with original ride height. Always measure the vehicle ride height prior to beginning installation.

## **PRE-INSTALLATION MEASUREMENTS**

It is imperative that you record the following measurements and factory components in the tables below. IHC Suspension tests and records as much data from each application as available at the time of product development. Vehicle manufacturers may change components or add models with different options. Recording and not exceeding the fender-to-hub-center IHC Suspension calls out will ensure the drop on the vehicle is correct.

These measurements will affect the performance of this lowering kit. Failure to ensure proper stock conditions may result in over lowering, causing premature failure on ball joints, if 4wd, axles, CV boots and drivetrain. Over lowering a vehicle will also result in an incorrect wheel alignment. This will wear tires incorrectly. Incorrect alignment will cause poor vehicle handling issues including but not limited to under steering. Over lowering the vehicle will also cause incorrect suspension geometry resulting in poor ride quality accompanied by pops and clunks which are symptoms of prematurely wearing components.

Failure to adjust head lamps may cause dangerous driving conditions for you and other drivers on the road. Record the head lamp position before the installation of this lowering kit and adjust to the original factory position after the completion to ensure a safe and enjoyable experience. Refer to Owner's Manual.

## **VEHICLE HEIGHT MEASUREMENTS**

	DRIVER BEFORE	DRIVER AFTER	PASS BEFORE	PASS AFTER
FRONT				
REAR				

**\*\*MEASUREMENT IS TO BE PERFORMED FROM CENTER  
OF HUB TO FENDER EDGE STRAIGHT UP FROM HUB \*\***



# WARNING

## **INSTALLATION WARNING**

IHC Suspension recommends all steps and procedures described in these instructions be performed while the vehicle is properly supported on a two-post vehicle lift with safety jacks.

Otherwise, park vehicle on a clean flat surface and block the rear wheels for safety. Engage the parking brake.

Disconnect the vehicle power source at the ground terminal on the battery. Lock the steering wheel in the straightforward position with the column lock or steering wheel locking device.

Raise the front of the vehicle and support with safety jack stands at each frame rail behind the lower control arms.

## **Before starting installation**

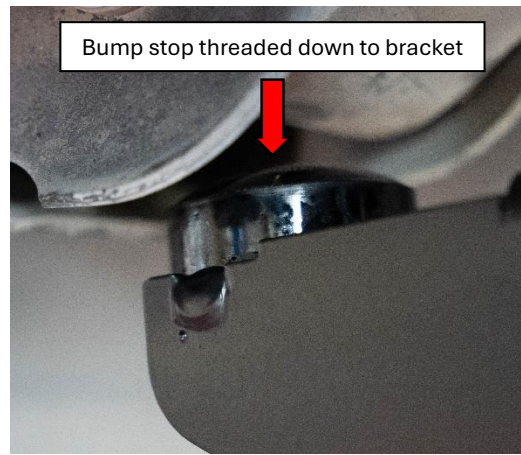
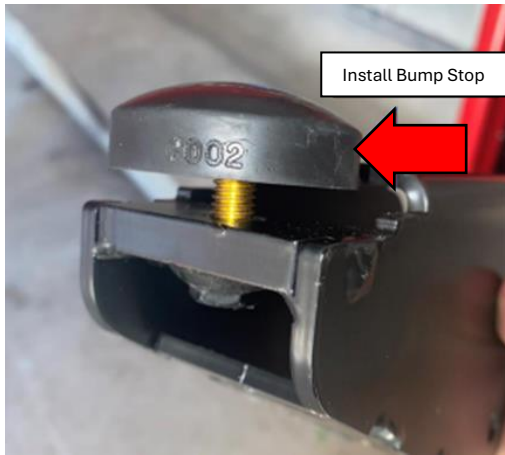
IHC Suspension highly recommends that the installation of this product be performed by a professional technician with experience working on and installing suspension products. Professional knowledge and skill will typically yield the best installation results. If you need an installer in your area, please contact IHC Suspension Customer Service to find one of our IHC Suspension Authorized dealers.

### **INSTALLATION BY A PROFESSIONAL IS HIGHLY RECOMMENDED**

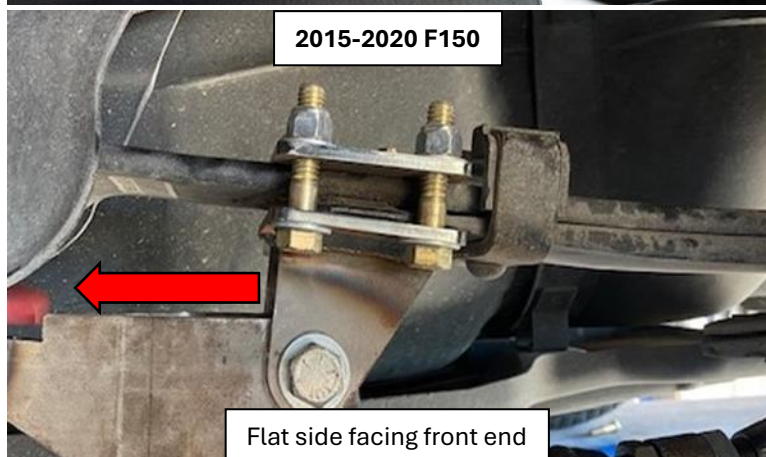
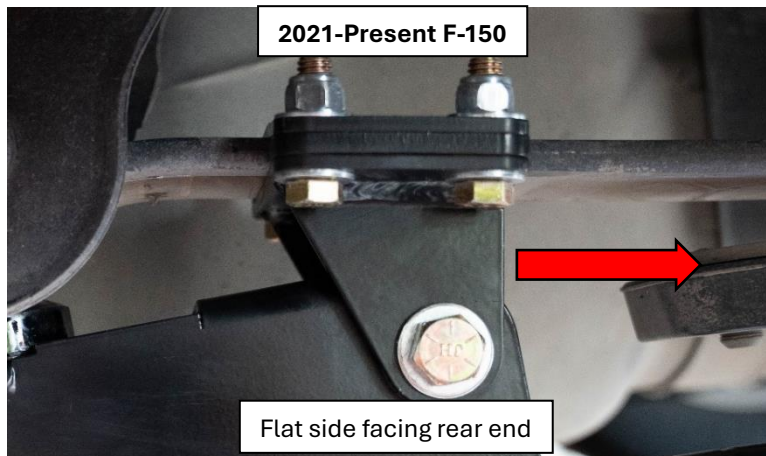
- A Factory Service Manual for your specific Year / Make / Model is highly recommended for reference during installation.
- All lifted vehicles may require additional driveline modifications and / or balancing.
- A vehicle alignment is REQUIRED after installation of this product.
- Speedometer / Computer recalibration is required if changing +/- 10% from factory tire diameter.
- A vehicle lift or hoist greatly reduces installation time.
- Installation time estimates are based on an available vehicle hoist.

Vehicle must be in excellent operating condition. Repair or replace any and all worn or damaged components prior to installation of lowering kit

1. Drive vehicle on DRIVE ON LIFT and chock the wheels.
2. Disconnect the negative terminal on the battery.
3. Refer to RIDE QUALITY KIT for FLIP KIT instructions.

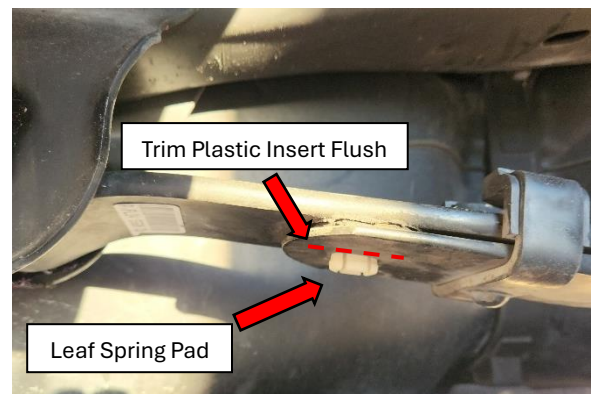


4. Install bump stop and thread all the way down for it to sit flush on the front bracket.
5. Install front leaf spring clamp and hardware - **DO NOT TIGHTEN YET**  
**NOTE:** Bottom lower clamp is directional. Please refer to the picture below.



**NOTE:**

If you have multi-leaf springs, you will use the longer bolts and will need to trim the leaf spring pad insert flush to allow the front clamps to fit.

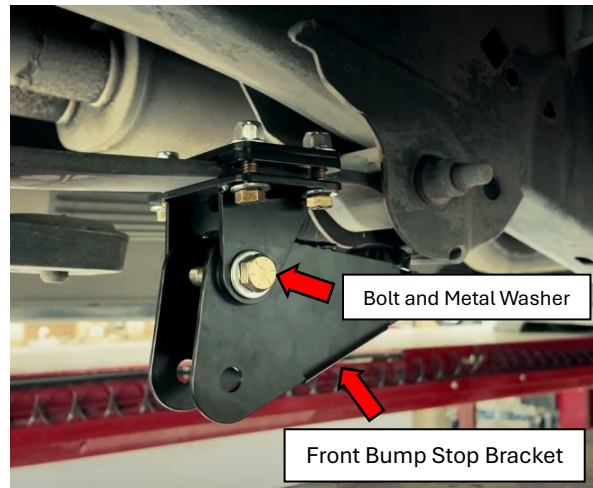
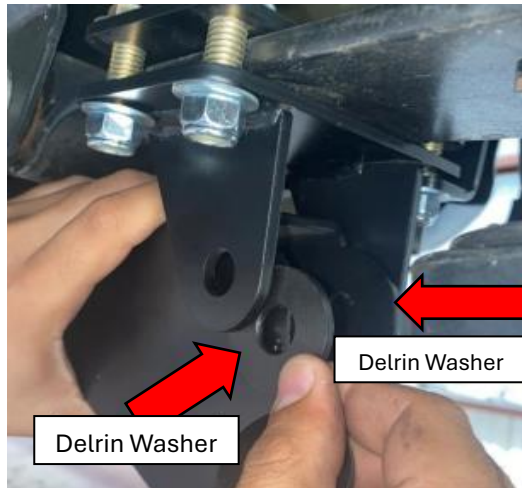




6. The front bump stop bracket requires an inner **DELRIN** washer on each side of the front bracket. Install the metal washer with the supplied bolt. Start the bolt and metal washer on the outer tab of the front mount. Install the **DELRIN** washer on the bolt sticking through the outer tab. Slip the bolt into the hole and insert the **2nd DELRIN** washer on the other side of the hole. Push the bolt all the way in and install the metal washer with the locking nut.

**NOTE: DO NOT TORQUE JUST YET.**

**NOTE: Delrin washer must be installed. Refer to picture.**

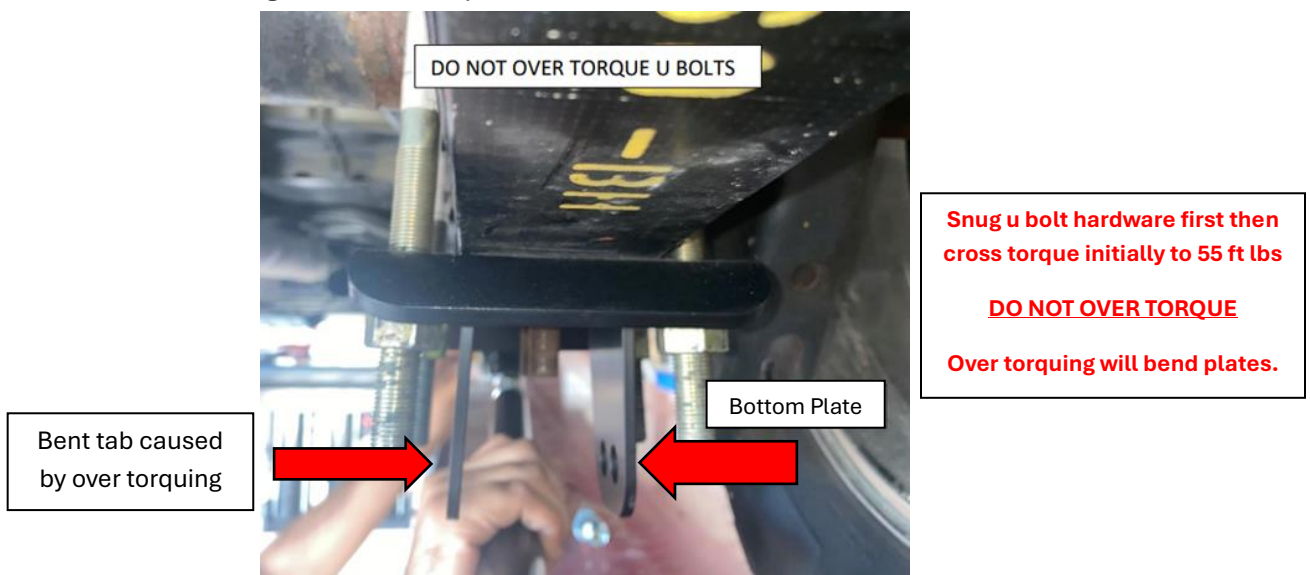


7. Install the supplied rear bottom plate.

**NOTE:** If the vehicle already has the traction bar rear bottom plate installed continue to **STEP 8**. If the vehicle needs to have rear flip kit bottom plate swapped with traction bar bottom plate. Refer to **Ride Quality Rear** install guide for instructions to swap bottom plate.

**NOTE:** Leaf springs are under tension, make sure to proceed with caution.

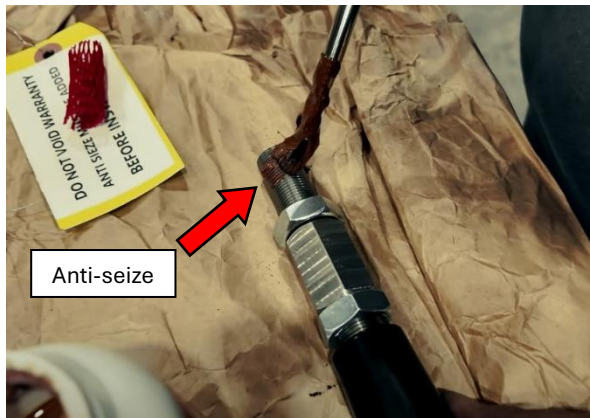
**NOTE:** Do not over torque bottom plate. Doing so will cause the plate to bend and not allow traction bar hardware to pass through. Snug U-bolt nuts first to avoid damage to tabs and plate – **FINAL TORQUE IN STEP 18.**



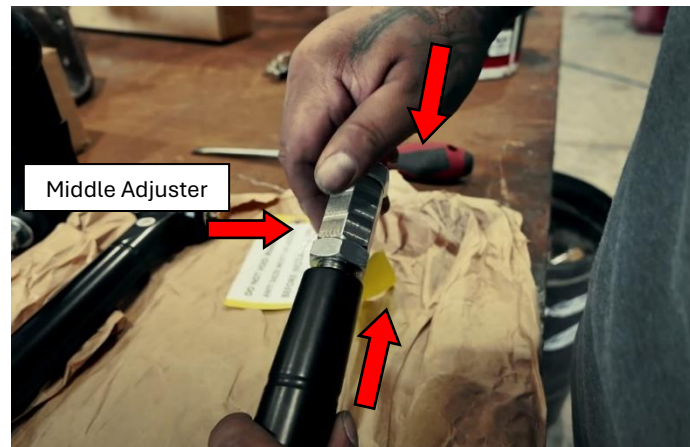
8. Grab traction bars and apply anti-seize to all threads.

**NOTE: Failure to do so will VOID warranty**

9. Thread longer side to shorter side of traction bar. They are side specific.



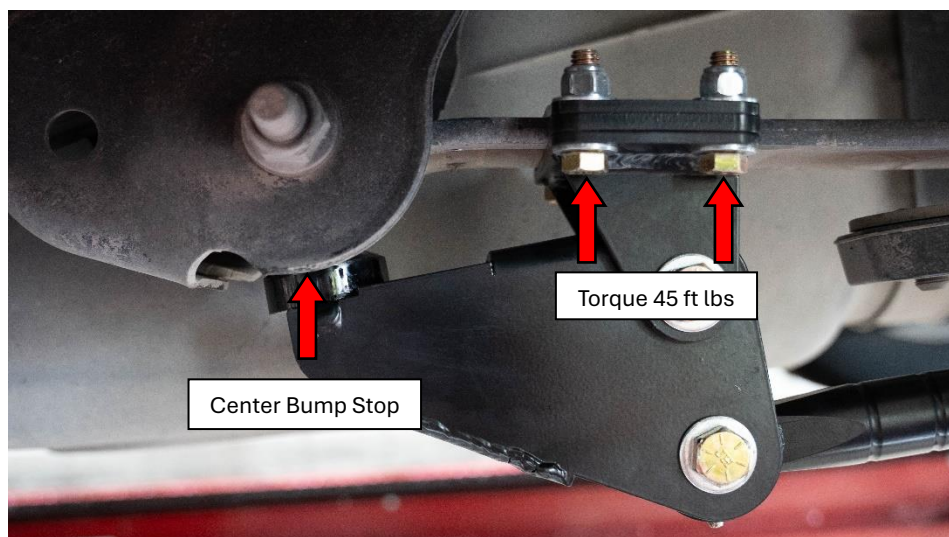
10. Bring both ends together towards the middle adjuster. Please refer to picture.



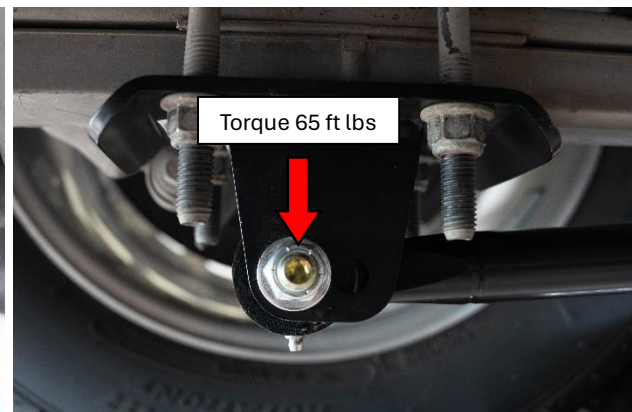
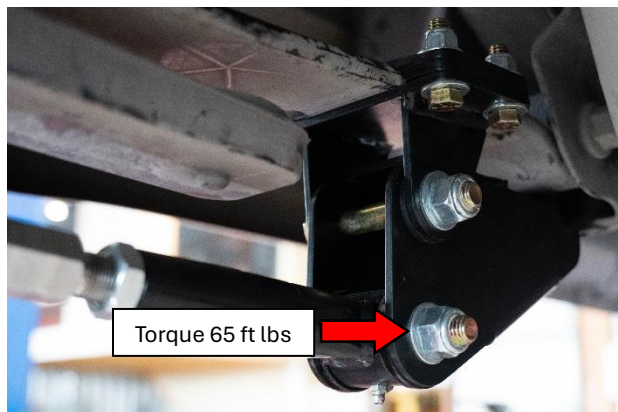
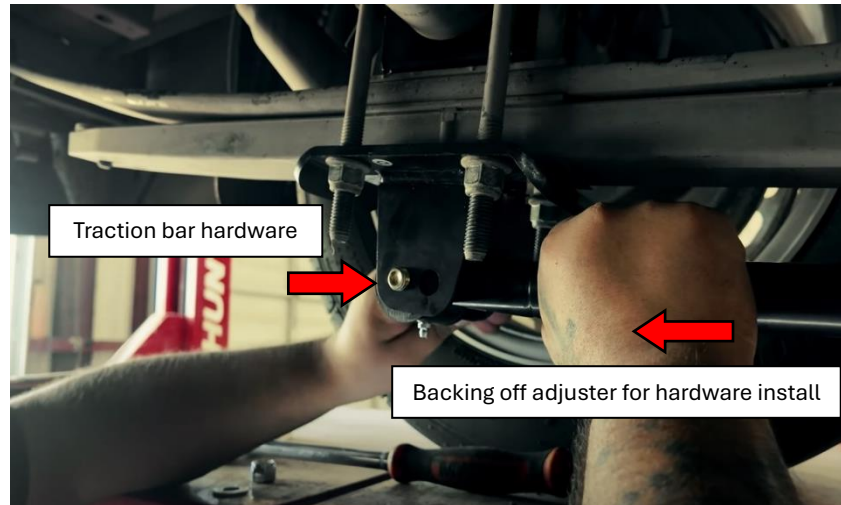
11. Install the traction bar to the front pivot bracket and snug traction bar hardware.

**NOTE: DO NOT TORQUE JUST YET**

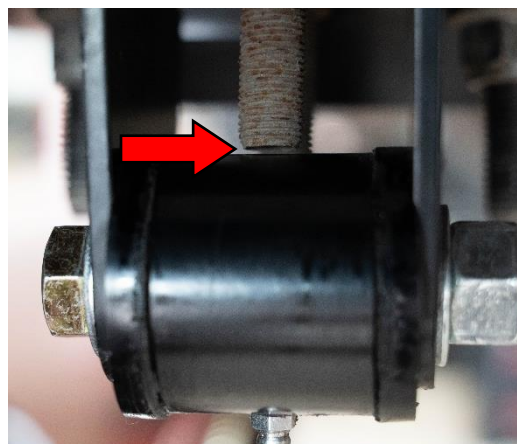
12. Adjust the front pivot plate to sit under the front leaf spring bolt and torque the front clamps to **45 ft lbs.**



13. Back off on the middle adjuster to allow the traction bars to spread apart evenly to allow the rear end of the traction bar to be installed.
14. Torque front and rear traction bolts to **65 ft lbs**

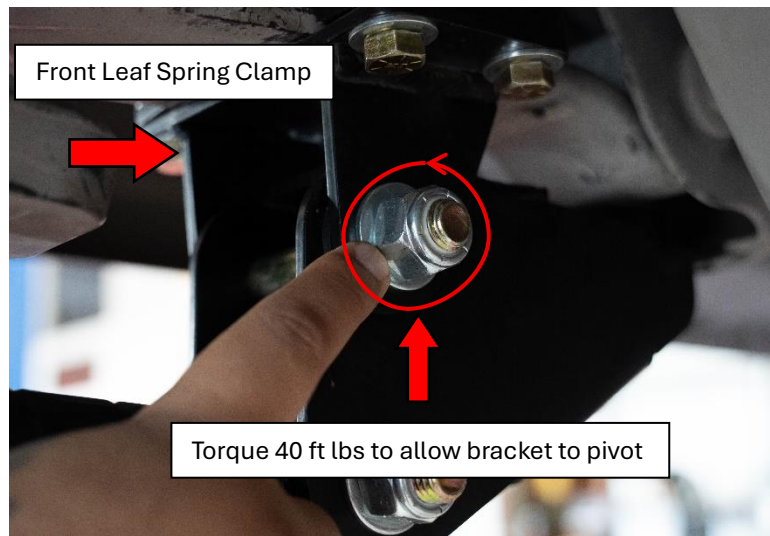


**NOTE:** The slight gap between the rear guide pins and traction bar is completely normal and will not cause any clearance concern.





15. Snug the front bump stop plate hardware just enough to allow it to still pivot on the front leaf spring clamps. Torque to **40 ft lbs**.



16. Pre-load should only be set for track use and by experienced professional.

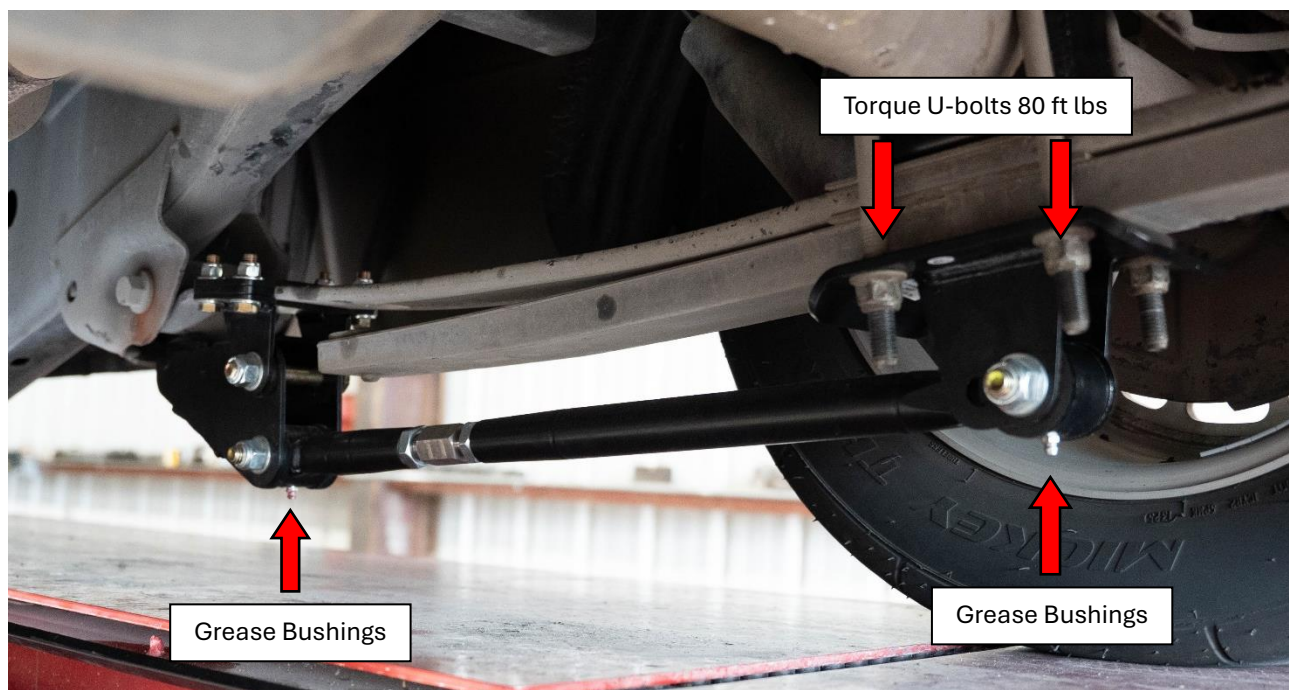
(17a) For normal driving, release pre-load from leaf pack.

(17b) For track use, preload traction bars to leaf pack to personal liking.

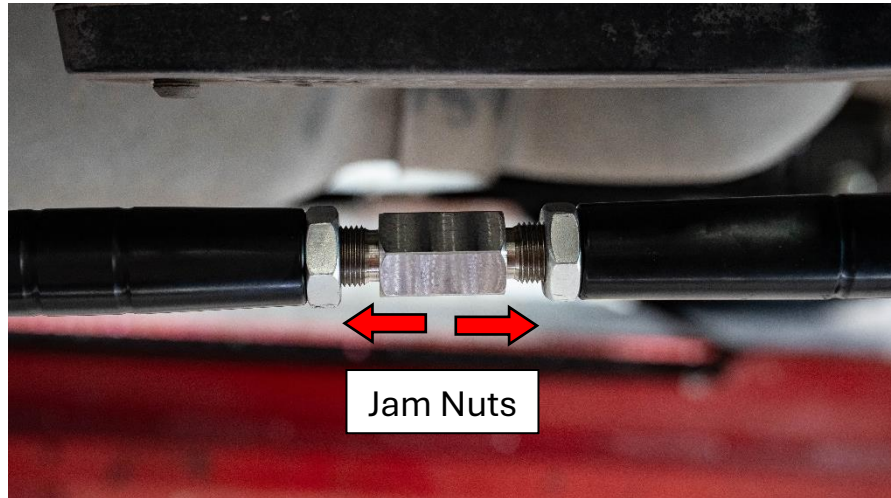
17. Grease the bushings through the fittings.

18. Final torque for U-bolts is **80 ft lbs**.

NOTE: A slight bend on the bottom plates after final torque is normal.



**19.** Lock the adjustment by threading the jam nuts towards the traction bar side.



**20.** Proceed to follow the same steps and procedures for the opposite side.

**21.** Once completed, the installation should look like this. Refer to picture.







# WARNING

**FAILURE TO PERFORM THE POST INSPECTION CHECKS MAY RESULT IN VEHICLE COMPONENT DAMAGE AND/OR PERSONAL INJURY OR DEATH TO THE DRIVER AND/OR OTHERS.**

## Final Checks & Adjustments

Once the vehicle is lowered to the ground, check all parts which have rubber, Delrin or urethane components to ensure proper torque. Torque lug nuts to the wheel manufacturer specs. Move vehicle backwards and forwards a short distance to allow suspension components to adjust. Turn the front wheels completely left then right and verify adequate tire, wheel, brake line, and ABS wire clearance. Test and inspect steering, brake and suspension components for tightness and proper operation. Inspect brakes hoses and ABS lines for adequate slack at full extension, adjust, as necessary.

## MAINTANCE

RECHECK ALL HARDWARE FOR PROPER TORQUE VALUES AFTER 500 MILES, AND THEN PERIODICALLY AT EACH SERVICE INTERVAL THERAFTER.

RECOMMENDED TO PERFORM MAINTAINCE ON ALL BALL JOINTS AND CONTROL ARMS. ADD GREASE EVERY 6 MONTHS OR EVERY 10K MILES. FAILURE TO PERFORM MAINTAINCE WILL CAUSE PREMATURE WEAR ON BALL JOINTS AND BUSHING.

## Vehicle Handling Warning

Lowering the height of your vehicle lowers the center of gravity and can affect stability and control. Use caution on turns and when making steering corrections. Vehicles with larger tires and wheels will handle differently than stock vehicles. Take time to familiarize yourself with the handling of your vehicle.

## Wheel Alignment/Headlamp Adjustment

It is necessary to have a proper and professional wheel alignment performed by a certified alignment technician. Align the vehicle to IHC Recommended specifications. It is recommended that your vehicle alignment be checked after any race/drag race driving. In addition to your vehicle alignment, for your safety and others, it is necessary to check and adjust your vehicle headlamps for proper aim and alignment. If the vehicle is equipped with active or passive safety/collision monitoring and/or avoidance systems including, but not limited to, camera- or radar-based systems, check and adjust your vehicle's systems for proper aim and function.

IMPORTANT NOTE: Due to the nature of Ford's Lane keeping/lane departure features, it may be necessary to have the vehicles camera and sensors recalibrated to ensure these systems functions as they did prior to install. Please contact your local Ford dealership to set up an appointment.

Tech Support: [tech@ihcsuspension.com](mailto:tech@ihcsuspension.com)

(956) 424-6901

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