



**IF your ZBROZ® 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 contact ZBROZ.**

**(435) 753-7774**

**MON-FRI 8AM-5PM PST**

**OR**

**EMAIL: [customerservice@zbrozracing.com](mailto:customerservice@zbrozracing.com)**

**WEBSITE: [www.zbrozracing.com](http://www.zbrozracing.com)**

**\*\*Please retain these instructions for future reference.\*\***

### **Limited Lifetime Warranty**

Zbroz Racing will warranty to the original purchaser any failed Zbroz Racing suspension product in the event of failure due to construction or material failure of the product. You will be required to contact Zbroz Racing customer service with description and photos that resulted in failure. Zbroz Racing builds suspension products to meet and exceed your expectations in quality, performance and durability. All Zbroz Racing suspension products are rigorously tested during development and prototype parts are pushed to the limit by professional industry athletes, backcountry athletes and race teams. Zbroz Racing Limited Lifetime Warranty excludes the following wear parts as these parts are considered defective when worn: Ball Joints, Bushings, Bump Stops, Tie Rod Ends, Heim Joints, Shock Absorbers Product purchased directly from Zbroz Racing has a 90 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 Zbroz Racing packaging. Please call (435) 753-7774 to get an RGA# for any return. Customer is responsible for shipping costs back to Zbroz Racing. Returns without RGA# will be refused. Contact Zbroz Racing directly about any potentially defective parts prior to removal from vehicle.

Zbroz Racing is NOT responsible for any subsequent damages to any related vehicle parts due to misuse, abuse, improper installation, or lack of maintenance. Furthermore, Zbroz Racing reserves the right to change, modify or cancel this warranty without prior notice.



**READ INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE BEGINNING INSTALLATION.**

**INSTALLATION BY A CERTIFIED PROFESSIONAL MECHANIC IS HIGHLY RECOMMENDED.**

**ZBROZ® 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 or vehicle rollover 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.

Driver and passengers must ALWAYS wear your seat belts, avoid quick sharp turns and other sudden maneuvers. ZBROZ does not recommend the combined use of suspension lifts, body lifts, or other lifting 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 off-road 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 lifting of their vehicle before the purchase and installation of any ZBROZ products.

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

All raised vehicles 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 insure 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.

ZBROZ 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 lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle ride height. Always measure the vehicle ride height prior to beginning installation.



***Before starting installation:*** ZBROZ highly recommends that the installation of this product be performed by a professional mechanic 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 ZBROZ Customer Service to find one of our "Pro-Grade" 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 vehicles may require additional driveline modifications and / or balancing.
- A vehicle alignment is REQUIRED after installation of this product.
- 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.

**\*\*\*Parts shown in red for picture clarification only\*\*\***

ZBROZ 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.

Lock the steering wheel in the straight forward 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.



## INSTALLATION INSTRUCTIONS

Billet Tie Rod | Polaris PRO XP/XP 4  
SKU: K38-0620800-01



Bill of Materials	QTY
TIE ROD, LH, RZR PRO-XP	1
TIE ROD, RH, RZR PRO-XP	1
14MM HEIM JOINT LEFT FEMALE RZR TIE ROD	2
REDUCER, TIE ROD, RZR	2
BOLT ALAN 12MM-1.75 X 70MM GRD	2
NUT NYLOCK 12MM-1.75 GRD 8.8 50PK	2
REDUCER, RZR TURBO-S TIE ROD, WHEEL END	2
AXIAL ROD 16MM RH HIGH MISA-LIGNMENT	2
14MM X 1.5, JAM NUTS, LH	2

Tools Required
18mm End Wrench
19mm End Wrench
Snips or similar cutting device.
Large Crescent Wrench or Pipe Wrench
10mm Allen Wrench
Medium Loctite
Hammer/Mallet (may be needed)

This Billet Tie Rod can be installed with your Polaris PRO XP/XP 4 by using a floor jack or lift. Select a flat install location. If using floor jack, always make sure to block tires - work safely!

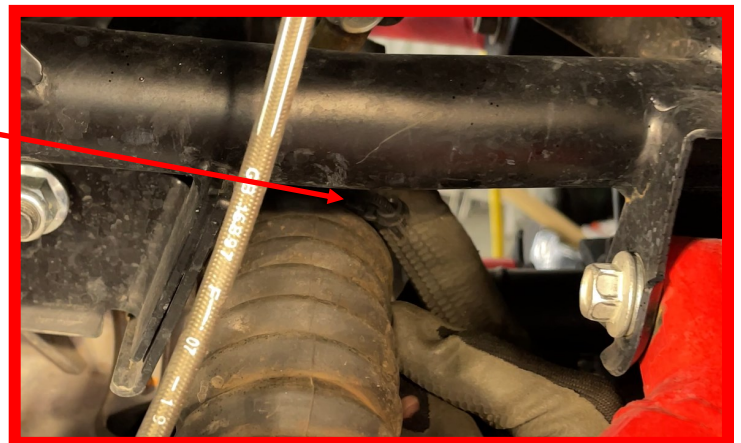
Follow These Steps First:

1. Make sure you are parked on a flat location.
2. Raise your Polaris PRO XP in the air using a jack or lift.
3. Remove the wheels and tires.

Start by loosening the bolt from the Tie Rod that connects to the Wheel Hub Spindle using a 18mm End Wrench.



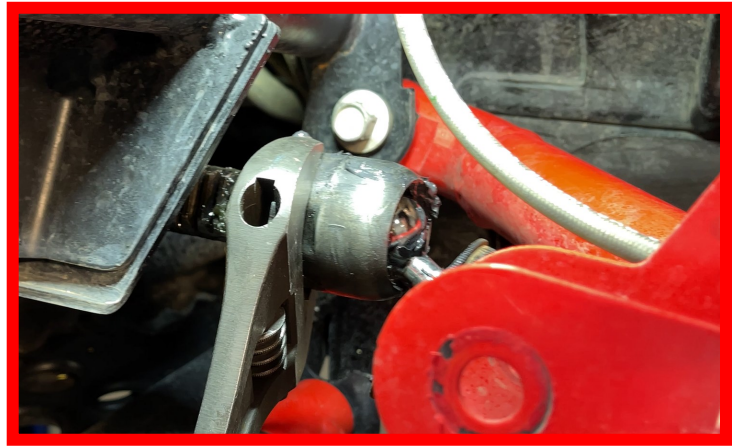
Remove the Zip-Tie holding the Tie Rod Boot in place located on the frame side. Slide the boot down exposing the Axle Joint.



Remove the Tie Rod Bolt from the Spindle. NOTE: you may need to use a Hammer or Mallet to tap up on the bolt to dislodge it free.



Remove the Axle Joint from the frame side connection using a large Crescent Wrench.

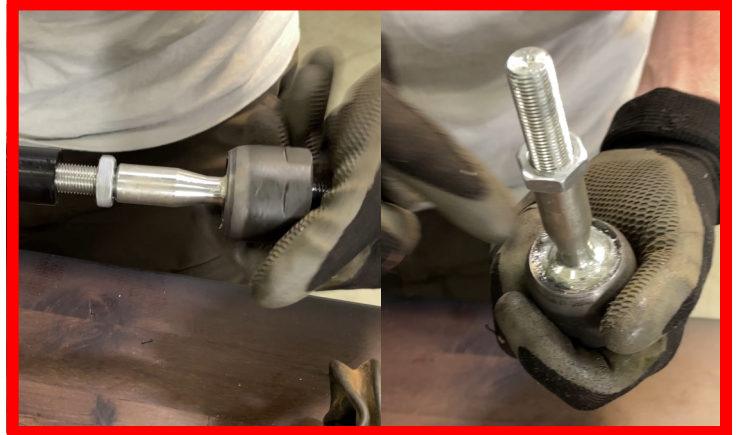


Using a Large Crescent Wrench and 16mm End Wrench, loosen the middle Jam Nut then continue to disconnect by turning it free by hand.

Remove the boot and set aside as you will re-use this on the new Tie Rod.



Take the new ZBROZ Tie Rod Assembly and remove the Axle Rod connection point completely.

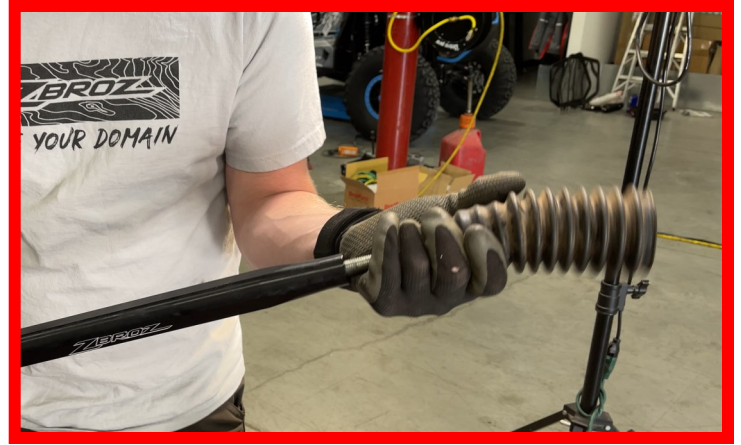


Slide the factory boot over the new ZBROZ Axle Rod exposing the Jam Nut.

NOTE: you can reuse the factory boot clip or a Zip-tie to secure the boot back on.



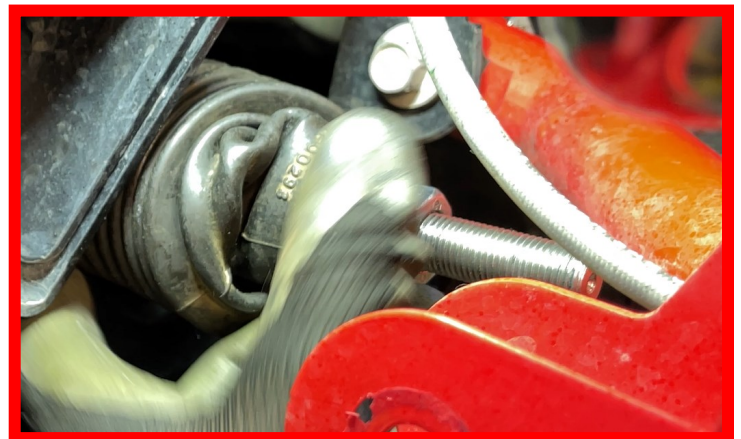
Reconnect the Axle Rod with boot to Billet Tie Rod Assembly.



With a rag, clean the Axle Rod threads and apply medium Loctite.



Thread the Axle Rod side into the PRO XP Frame. A trick to get it started is leaving the rod disconnected from the Axle Rod side. This will help make sure it is not cross threaded. Finish tightening with a large Crescent Wrench to factory torque specs.



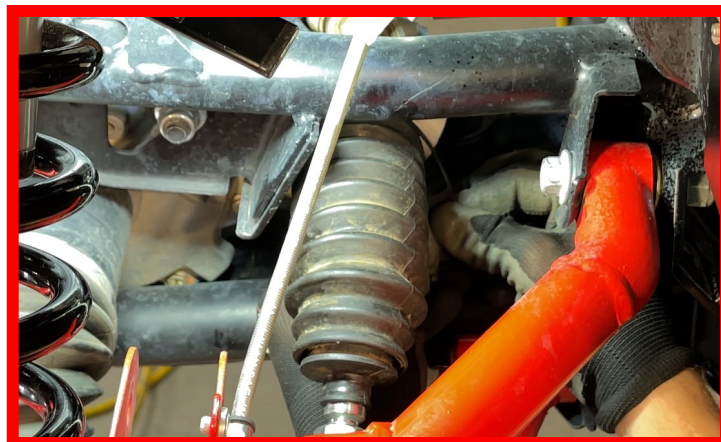
Locate and insert the reducers. The shorter "hat shaped" reducer goes into the top and the longer reducer goes into the bottom side. NOTE: the tapered end of the longer reducer inserts into the wheel hub mount side.



Insert the supplied 12mm bolt and Nut down through with the nut on bottom. Torque supplied bolt to factory specs.



Now slide the factory Axle Rod boot back over the Steering Rack housing and using a Zip-Tie secure it in place.



Repeat all steps on the other side for proper Billet Tie Rod Installation.

Installation is complete!

Place your wheels and tires back on lower the PRO XP to the ground straighten the steering wheel and perform a basic alignment.



## Final Kit Installation

Your ZBROZ Billet Tie Rod Installation is now complete! Please double check to make sure the bolts have been tightened to factory torque specs.





**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 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.

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

### **Vehicle Handling Warning**

Increasing the height of your vehicle raises 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 factory specifications. It is recommended that your vehicle alignment be checked after any off-road 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.