



**2014-\*2017 Polaris RZR XP1000 2/4 seat  
2016 Polaris RZR XP Turbo Stock Replacement Upper  
Radius Rod Kit  
Product #: 360-90397**

**Introduction**

- Installation requires a qualified mechanic.
- Read instructions carefully and study the pictures (if included) before attempting installation.
- Check the parts and hardware packages against the parts list to assure that your kit is complete.
- Always wear safety glasses when using power tools.
- The OEM upper radius rods under heavy duty use are prone to bending and wearing out the bearings in the ends which become very sloppy. A bent or broken radius rod can cause much more damage sometimes breaking or bending rear axles, rear cv joints, trailing arms, rear shock shafts, and sway bar end links.
- All the rod ends are right hand thread, so that if jam nuts come loose, the length does not change and cause damage.
- Please note, there is slight trimming needed to clear these larger heavy duty radius rods. The stock radius rod plate has bent edges that will need to be trimmed slightly. It is highly recommended to use the Cognito Radius Rod Cage in place of the stock radius rod plate. With the Cognito Radius Rod cage, there is no trimming needed. There is also tight clearance on the trailing arm end of the radius rods, slight trimming may be needed of the ears on the stock trailing arm hanging out near the radius rods. If using Cognito trailing arms, no trimming will be needed.

\* Polaris has made a mid-year design change as far as the radius rod bolts. In 2017, the bolts transitioned from 10mm diameter bolts to 12mm diameter bolts. This kit is strictly for the 10mm diameter bolt Polaris model. Grab a 15mm wrench and put it on the radius rod bolt head, if it fits correctly then this is your kit.



**Parts List: 360-90397**

- (2) 8332, Radius Rod Bar
- (6) 5542, Thin Spacer Bushing
- (2) 5543, Thick Spacer Bushing
- (4) 5/8 Jam Nut
- (4) 5/8 Rod End

**Installation Instructions**

1. All hardware will be re-used, so retain all removed hardware for re-use.
2. Raise the rear of your RZR up and support by the frame so that the suspension droops out and tires are off the ground by at least an inch. Remove rear tires.
3. Remove the fasteners holding the outer ends of the stock upper radius rods to the spindle bearing carriers, and the inner ends from the chassis and sandwich plate.
4. Locate the included rod ends and jam nuts. Thread the jam nuts all the way onto the rod ends, finger tight. Now lubricate the threads with anti-seize and thread the rod ends into all the ends of the radius rod bars, thread them all the way in.
5. Now locate the 2 upper bars. Tighten the jam nut on one end. Then for zero camber, back the other rod end out one full turn, clocking the rod end with the other end, and now tighten the jam nut.
6. Now install one end of the radius rod assemblies to the spindle bearing carriers, the outer ends will get one thin spacer bushing on each side of each rod end. Tighten to 40 ft-lbs.
7. Now there will be 2 thin spacers left, and 2 thick ones. The thick ones go on the side of the rod end that will mate up to the chassis. The thin spacer will go on the rear followed by the stock sandwich plate. The thick spacers go against the chassis to slightly space the larger diameter Cognito radius rod tubes away from the chassis since there is tight clearance at full shock compression. Tighten these bolts to 40 ft-lbs.
8. Install rear wheels and tighten lug nuts to OEM spec which is 40 ft-lbs.

## **Cognito Motorsports** **Limited Lifetime Warranty**

Cognito Motorsports warrants, to the original retail purchaser, that its suspension products are free from defects in workmanship and material for as long as the purchaser owns the vehicle on which the product was originally installed. Cognito Motorsports does not warrant the product for finish, alterations, modifications, and/or original installation contrary to specifications of Cognito Motorsports. Cognito Motorsports suspension products are not designed nor intended to be installed on vehicles used in race applications or for racing purposes or for similar activities involving abnormal abuse other than the vehicle was originally designed to handle or endure. (A "RACE" is defined as any contest between two or more vehicles, and/or contest of one or more vehicle against the clock, whether or not such contest is for a prize.)

This warranty is for a one-time replacement of each Cognito Motorsports product and does not cover any part that Cognito Motorsports has previously replaced under this warranty. This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warrant are sales outside of the United States of America. Alterations to the finish of the parts including but not limited to painting, powder coating, plating, and/or welding will void all warranties. Cognito Motorsports obligation under this warranty is limited to the repair or replacement, at Cognito Motorsports option of the defective product. Any and all costs of removal, installation or re-installation, freight charges, incidental or consequential damages are expressly excluded from this warranty.

This warranty excludes the following items: bushings, bumpstops, tie-rod ends, limiting straps, and hiem joints. These parts are subject to wear and are not considered defective when worn. They are warranted for 60 days of purchase for defects in workmanship. Cognito Motorsports suspension components must be installed as a complete system. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty. This warranty shall not apply to any product that had been subject to accident, negligence, alteration, abuse, or misuse. Cognito Motorsports does not warrant products not manufactured by Cognito Motorsports. Cognito Motorsports reserves the right to supersede, discontinue, or change the design, finish, part number and/or application of parts when deemed necessary by Cognito Motorsports without written notice, and in the sole and absolute discretion of Cognito Motorsports.

### **Warranty Claims**

All warranty claims must be submitted through the original company of purchase. All claims must be shipped back to the original company of purchase with an approved RMA number listed as a reference on the shipping label and clearly printed on two opposing sides of the package(s); product in question must be inspected by Cognito Motorsports before replacement parts are shipped out.

### **Return Policy**

Cognito Motorsports has a no refund return policy. Under special circumstances, returns might be accepted with prior written approval. All returned product will be shipped freight prepaid. Product returned is subject to a 25% restocking fee. No returns will be accepted after 30 days upon receipt of product.

### **Product Consumer Safety and Warning**

The installation of this kit will modify the suspension of your vehicle and may cause it to handle significantly different than a factory equipped vehicle. Installing larger tires with modified suspension and increased ground clearance will significantly alter the handling characteristics of the vehicle, and may result in increased braking distances as well as changes in vehicle maneuverability and handling compared to the factory equipped vehicle. As with any vehicle, extreme caution and care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts and drive safely, recognizing the reduced speeds and specialized driving techniques is required.

This suspension system will not strengthen nor reinforce the stock frame of the vehicle, nor will it increase rollover protection. It is necessary to periodically inspect all suspension and drive train components for tightness of fit or any damage. Installation of these parts will modify the height of the vehicle and will raise the center of gravity. Altered height modifications and off-road operation may increase your vehicle's susceptibility to roll over conditions and may cause serious injury or death. Many states regulate the height modification to each vehicle. Check the laws in your state for exact specifications. Height modifications may affect the reaction, ride, handling, and wear factor of your vehicle's components.

**Failure to drive this vehicle safely may result in injury or death!** Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications and combinations of modifications are not recommended, unsafe, and may not be permitted in your state. Consult your vehicle owner's manual, the instructions accompanying this product, and your state laws before undertaking these modifications. The owner of the modified vehicle and the qualified mechanic required to install this product are responsible for the legality and safety of the vehicle being modified.