

**Cognito OE Replacement Adjustable Upper Straight Radius Rod Kit For 17-21 Polaris RZR XP 1000 / XP Turbo / RS1****INSTALL INSTRUCTIONS:**

**Cognito OE Replacement Adjustable Upper Straight Radius
Rod Kit For 17-21 Polaris RZR XP 1000 / XP Turbo / RS1
SKU: 360-90398**

PARTS LIST FOR SKU: 360-90398

QUANTITY	PART #	DESCRIPTION
2	8332	Upper Radius Rod
4	RODEND- JMX10T	Jmx10T With F-1 Fit
4	HARDWARE- 36264	5/8 Rod End
6	5905	Thin Spacer 12Mm Bolt
2	5906	Thick Spacer 12Mm Bolt

**WARNING**

Please read this entire instruction sheet before beginning installation. Proper installation of these components requires a qualified mechanic. Always wear safety glasses when using power tools, and take appropriate precautions when working under a vehicle. If these instructions are not properly followed you may jeopardize your, and your passenger's safety, and severe frame, suspension or tire damage may also result from improper installation.



INTRODUCTION

- 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.

TECH NOTES

- Read instructions carefully and study the pictures (if included) before attempting installation.
- If this product was purchased as part of a bundle/package. Familiarize yourself with each set of instructions included with the bundle/package before beginning.
- Check the parts and hardware packages against the parts list to assure that your kit is complete before starting.

REQUIREMENTS

- Installation requires a qualified mechanic.
- Follow the OE specifications when replacing or re-installing OE fasteners, retainers, and hardware specified in the OEM manual.
- Always wear safety glasses when using power tools.
- When a lift is required to perform the installation of these products and always ensure the vehicle is properly supported before attempting installation or serious injury may occur.



INSTALLATION

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 it 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 stock upper radius rods.
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 **70 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 **70 ft-lbs**.
8. Install rear wheels and tighten lug nuts to OEM spec which is in the service manual as **120 ft-lbs (with the studs dry, if lubricated a lower torque should be applied)** although we feel this is high and we would like to use **90 ft-lbs**. Choose at your own discretion.



WARRANTY / RETURN POLICY / SAFETY

Cognito Limited Lifetime Warranty

Cognito Motorsports, Inc. hereinafter “Cognito,” warrants to the original retail purchaser, that its suspension products are free from workmanship and material defects for as long as the purchaser owns the vehicle on which the product(s) were originally installed. This warranty will be void if any modifications are made to the components, including alterations to the surface finish, i.e.; painting, powder coating, plating, and/or welding, or if they are improperly installed. Cognito truck suspension products are not designed nor intended to be installed on “competition” vehicles used in race applications, stunt or for exhibition purposes that are outside of the intended operating conditions specified by the manufacturer. Racing and competition are defined as any contests between two or more vehicles; or vehicles competing individually on off road circuits in timed events (whether or not such contests are for an award or prize).

This warranty does not include coverage for police, taxi, government or commercial vehicles, and the warranty does not cover Cognito products sold outside of the USA. Cognito’s obligations under this warranty are specified and applied at its sole discretion, and warranty coverage is limited to repair or replacement of the defective product(s). Any and all costs of removal, installation or reinstallation; freight charges, incidental or consequential damages associated with the covered products are expressly excluded from this warranty.

The following items are exempt from Cognito limited warranty coverage: bushings, bump stops, tie-rod ends (Heim joints) and limiting straps. These parts are “consumables” and designed to wear as a normal part of their duty cycle, therefore they are not considered defective when worn. The aforementioned products are warrantied separately against defects in workmanship, for 60 days from the date of purchase. As a condition of warranty validation, respective Cognito suspension components must be installed as a complete system (not combined with non-Cognito hardware or ancillary parts). Any substitutions or omission of required components will void the warranty. Some minor cosmetic wear and imperfections may occur to parts during shipping, which is not covered under this warranty. This limited warranty does not apply to any components that have been subjected to collision damage, negligence, alteration, abuse, or misuse, and coverage does not extend to products manufactured by third-party companies. Cognito reserves the right to supersede, discontinue, or change the design, finish, part number and/or application of its parts when deemed necessary, without notice.

Return Policy

Product returns will not be accepted without prior written approval from an authorized Cognito representative. All products being returned must be shipped via trackable, prepaid freight. Returned products are subject to a 25% percent restocking fee. The eligible return period for products purchased directly from Cognito is 30 days from the verified date when the product(s) were originally received by the purchaser.

Product Safety Advisory

The installation of Cognito steering and suspension components will modify your vehicle’s original factory equipment and geometry, which may cause it to handle differently than a stock (unaltered) vehicle. Installation of these components is not intended to strengthen nor reinforce the vehicle’s frame, nor are they designed to increase rollover protection. It is necessary to periodically inspect all suspension and drive train components for proper attachment, torque specifications, operation, and for any potential unusual wear or damage. Installation of these parts will modify the height of the vehicle and may raise the center of gravity. Modifying vehicle height combined with off road operation may increase your vehicle’s susceptibility to rollover conditions, which may cause serious injury or death. Many states regulate allowable vehicle height modifications, and it is your responsibility to know and comply with the legal requirements specified by the laws where you reside. Modifications to your vehicle’s ride height may also affect the ride quality, driver input response, trackability and handling, and wear to your vehicle’s suspension components and tires.