

This set of Instructions is used for Upper and Lower Radius Bar Kit not in conjunction with a Big Lift Kit.

If you have purchased a Big Lift Kit use the installation steps that are in the Big Lift Kit Instructions. The installation steps are different for the Big Lift Kits and the radius bars that are included in these kits.



780 Professional Drive N Shreveport, LA 71105 Phone (318)524-2270

Polaris Ranger RZR 1000 XP Upper and Lower Radius Bar Installation Instructions

Read before Installation

This product is designed for use on ATVs and/or RUVs to increase ground clearance and fender clearance. Purchasers should be aware that use of this product may increase the frequency of required maintenance, part wear, and will raise the center of gravity on your ATV and/or RUV, increasing risk of roll-over, injury and death on all types of terrain. It is your responsibility to always inform other operators and passengers of this vehicle about the added risks.

High Lifter Products, products are designed to best fit user's ATV/RUV under stock conditions. Adding, modifying, or fabricating any OEM or aftermarket parts will void warranty. High Lifter Products, products could interfere with other aftermarket accessories. If the user has aftermarket products on machine, contact High Lifter Products to verify that they will work together. Adding aftermarket suspension components and/or more aggressive tires can cause breakage of other OEM driveline components such as differentials, axles or drive shafts.

We recommend that wider tires and/or wheel spacers be used to achieve a wider stance and to improve stability of the ATV and/or RUV. Riders should be advised that the handling characteristics of a taller ATV and/or RUV are different and require extra care when riding, particularly on side hills or off-camber situations. If you further raise the center of gravity by adding taller tires, heavy loads to racks or seats, or by any other means, the ATV and/or RUV must be operated with even more care, at slower speeds and on relatively flat ground. All turns should be done at a slow speed, even on level ground.

Operation of an ATV and/or RUV with or without modified suspension components, while or shortly after consuming alcohol or drugs, subjects the rider to the risk of serious bodily harm or possible death. This risk is compounded if the rider does not wear an approved helmet and other safety gear. High Lifter urges that all approved safety gear be worn when riding an ATV and/or RUV as a driver or passenger.

By purchasing and installing High Lifter Products, products, user agrees that should damages occur, High Lifter Products will not be held responsible for loss of time, use, labor fees, replacement parts, or freight charges. High Lifter Products will not be held responsible for any direct, indirect, incidental, special, or consequential damages that result from any product purchased from High Lifter Products. The total liability of seller to user for all damages, losses, and causes of action, shall not exceed the total purchase price paid for the product that gives rise to the claim.

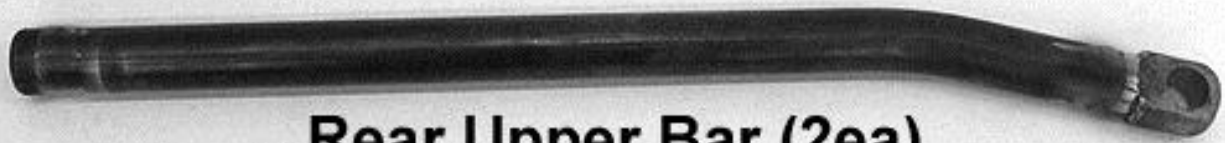
If this product is not what you expected, or is not consistent with your intended use, you should return the product immediately to the seller, before installation, for a refund of the purchase price; less any fees. After installation, product is warranted for 90 days for defects in workmanship and materials. High Lifter Products will warranty only parts provided by High Lifter Products. Any damage or problems with OEM housings, bearings, seals, or other manufacturer's products will not be covered by High Lifter Products. Parts and products will not be warranted if item was not installed properly, misused, or modified.

Dealers and other Installers

You are responsible for informing your customer and end user of the information contained above and the increased potential hazards of operating an ATV and/or RUV equipped with modified suspension components. If you install any suspension modifying components, it is your responsibility to also install the warning label prominently in view of the driver and in prominent view of the driver and passenger on RUVs and multi-passenger ATVs. They should also be instructed to notify anyone operating the vehicle, as well as any passengers, that said vehicle is modified.

As discussed above, it is critically important that they be instructed in the need for slower speed operation, regardless of terrain, after this lift kit is installed.

Parts Diagram Upper Radius Bar Kit



Rear Upper Bar (2ea)

**Heim Joint (2ea)
18D**



**Jam Nut (2ea)
JN58F**



**12mm x 65mm (2ea)
MCS12X65-10.9**



**12mm Lock
Nut (2ea) MLN12-1.75**



**Spherical
Bearing (2ea)
68Y**



**Cone (4ea)
66O**



**Heim Bushing
(4ea) 65K**



**Poly -Bushing
(4ea) 66P**



**12mm Washer
(4ea) MFW12**

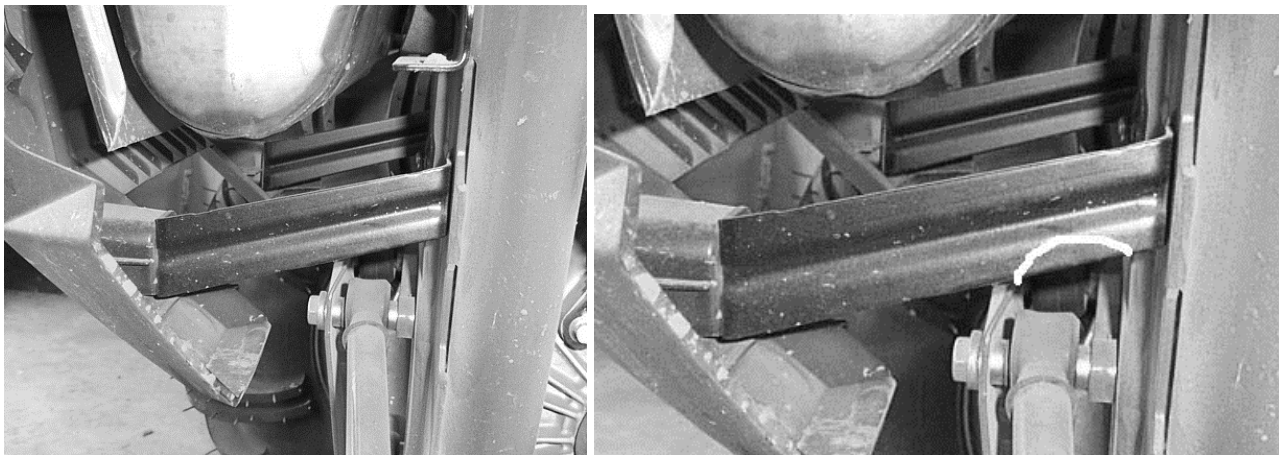


**Retaining
Ring (4ea)
68Z**

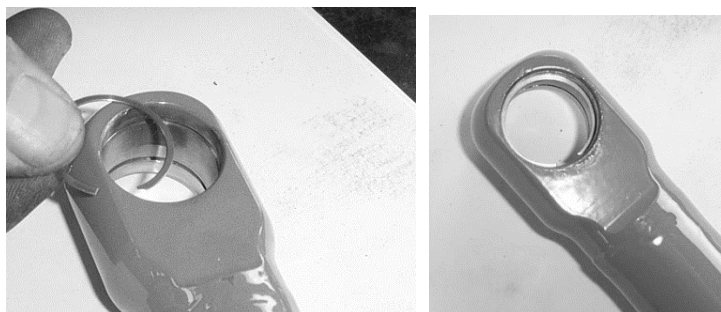


Installation Instructions for Upper Radius Bar Kit

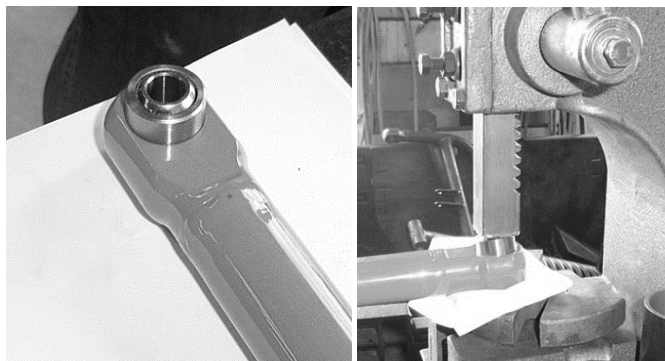
NOTE: If you are installing this kit on a RZR 1000 that does not have a lift kit installed you will need to trim the support bracket nearest the upper radius bar. When the new arched radius bars are installed, they will meet the rear plastic support bracket.



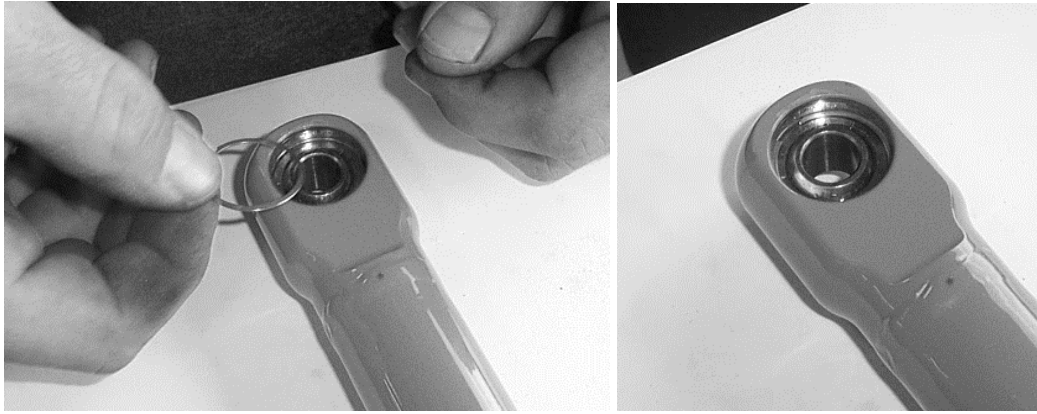
1. Preassemble the new upper radius bars.
2. Install a retaining clip into one side of the opening for the spherical bearing. This will keep you from pressing the spherical bearing in too far.



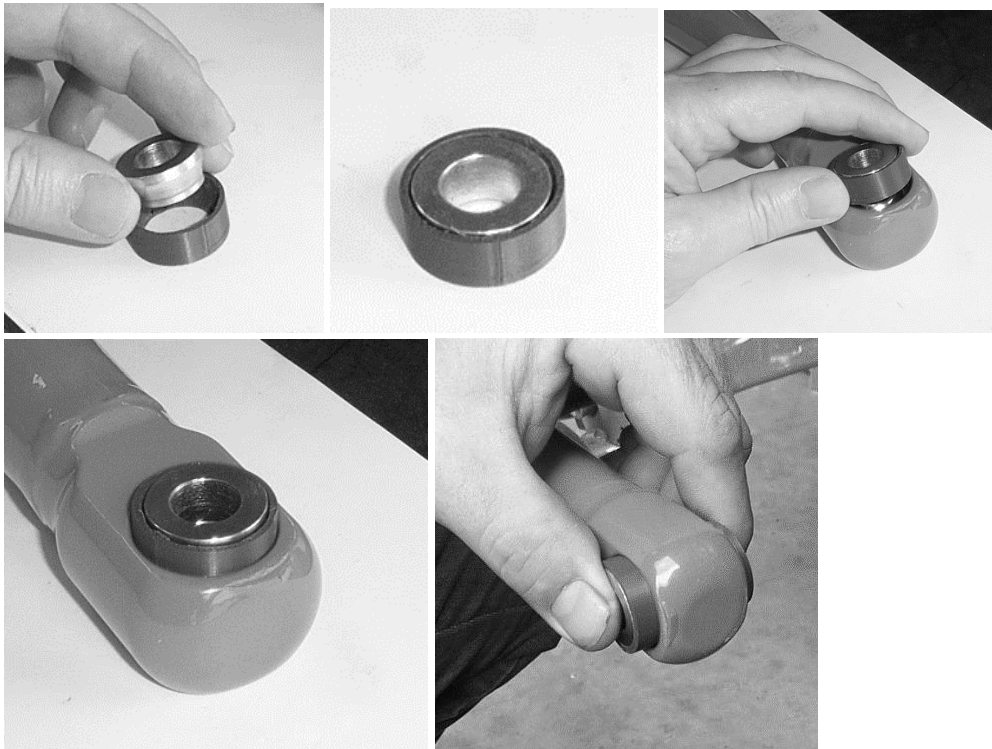
3. You will need to use a press to install the spherical bearings into the new radius bars. Install the spherical bearing into the opposite side from where you installed the retaining clip.



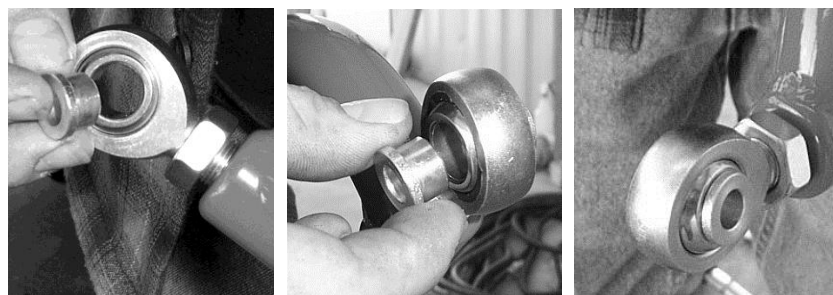
4. Once you have installed the bearing, insert the remaining retaining clips.



5. Included in the kit are bushings and alignment cones. Insert an alignment cone into a bushing. This setup will go on either side of the spherical bearings.



6. Insert the two heim bushings into the eyelet of the heim joint.

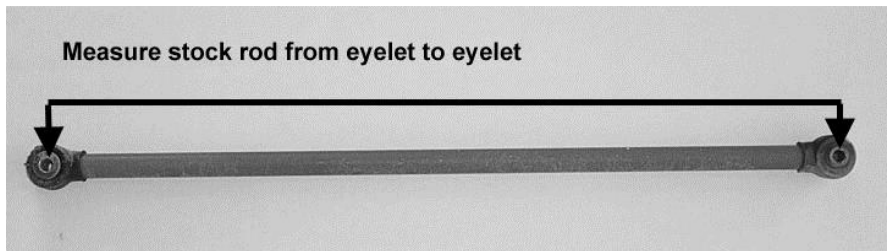


7. Once you have pre-assemble the radius bars, jack up the rear of the RZR enough so that the rear arms drop to full extension and the tires are off the ground.

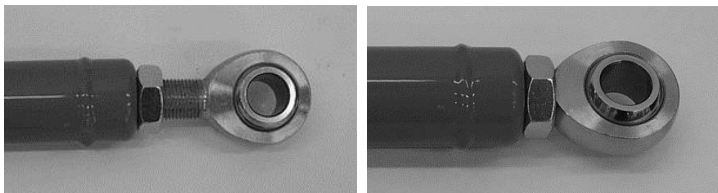
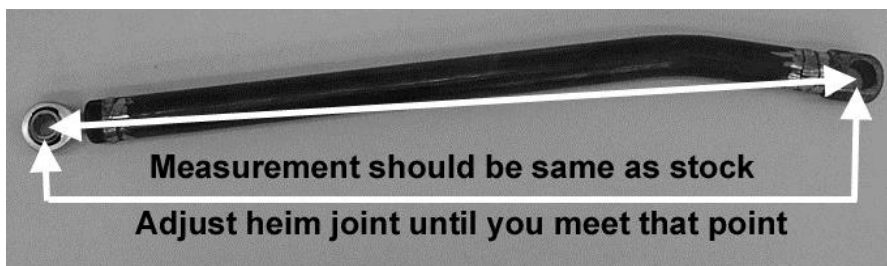
8. Disconnect the rear stock upper radius rods.



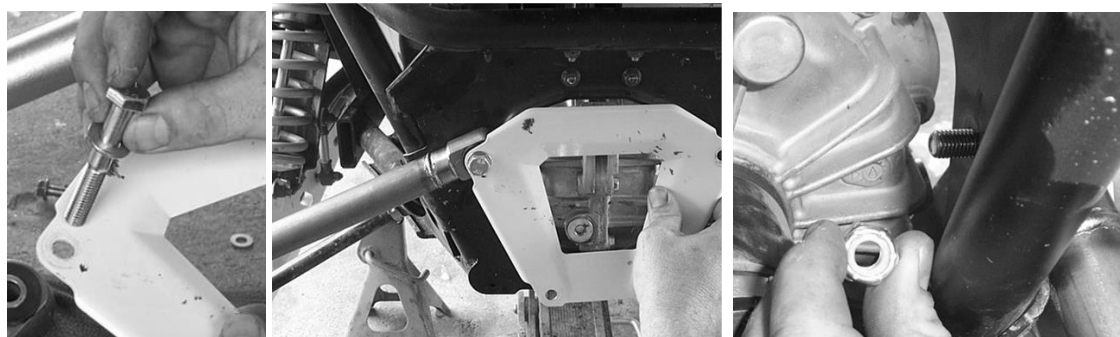
9. When you have removed the rods, you will need to take a measurement of the rod. Measure from eyelet to eyelet. You will need to adjust the new radius rod to this distance.



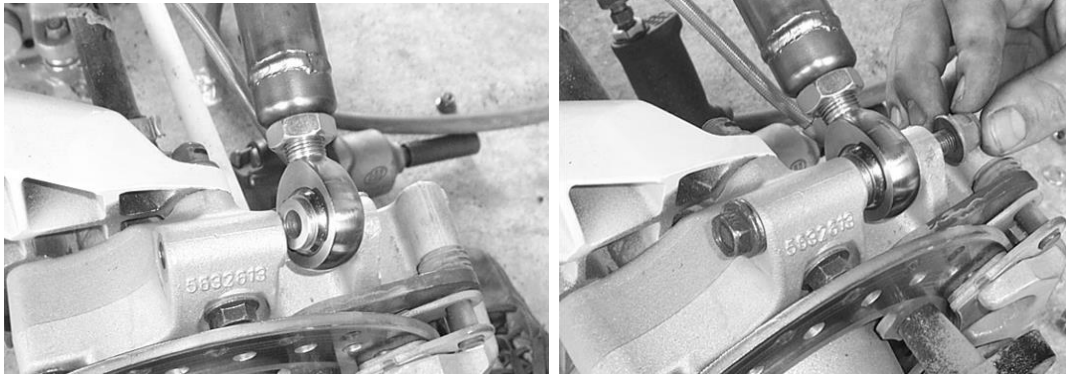
10. Set the distance on the new rod by adjusting the heim joint and jam nut.



11. Once you have set the distance on the new rod attach it to the RZR. Attach the ends of the radius bars to the RZR frame using the 12mm x 65mm Hex Bolts, 12mm Washer, and 12mm Lock Nuts provided in the kit.

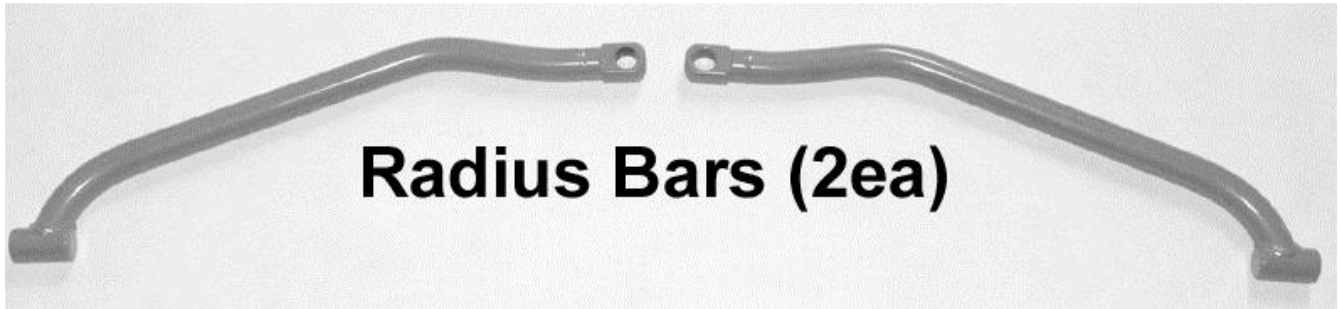


12. Connect the new Heim Joint and Heim Adapters to the knuckle assembly using the stock hardware.



13. Repeat step for the opposite side and lower the jack.

Parts Diagram for Lower Radius Bar Kit



Radius Bars (2ea)

Heim Joint (2ea)
18D



Jam Nut (2ea)
JN58F



12mm x 65mm (2ea)
MCS12X65-10.9



12mm Lock Nut (2ea) MLN12-1.75



Spherical Bearing (2ea)
68Y



Cone (4ea)
66O



Heim Bushing (4ea) 65K



Poly -Bushing (4ea) 66P



12mm Washer (4ea) MFW12

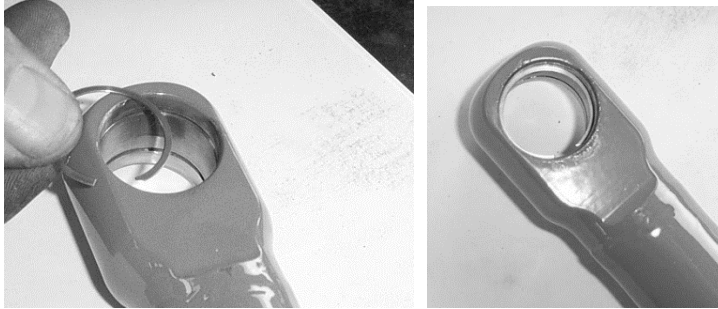


Retaining Ring (4ea) 68Z

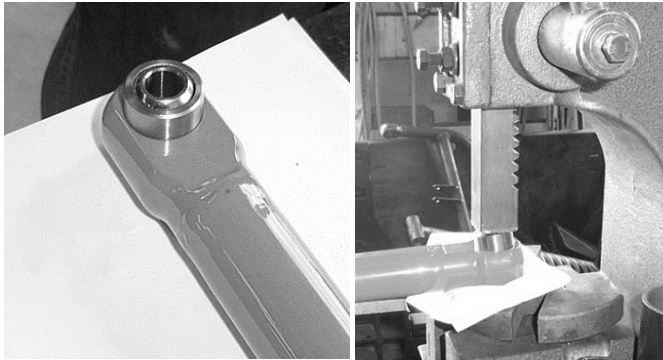


Installation Instructions for Lower Radius Bars

1. Preassemble the new radius bars.
2. Preassemble the new upper radius bars.
3. Install a retaining clip into one side of the opening for the spherical bearing. This will keep you from pressing the spherical bearing in too far.



4. You will need to use a press to install the spherical bearings into the new radius bars. Install the spherical bearing into the opposite side from where you installed the retaining clip.



5. Once you have installed the bearing, insert the remaining retaining clips.



6. Included in the kit are bushings and alignment cones. Insert an alignment cone into a bushing. This setup will go on either side of the spherical bearings.



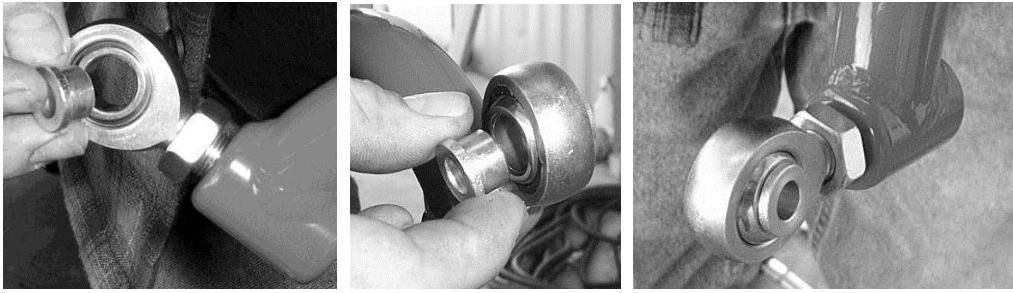
7. Once you have pre-assemble the radius bars, jack up the rear of the RZR enough so that the rear arms drop to full extension and the tires are off the ground.
8. Disconnect the rear stock upper radius rods.



9. Now thread the jam nut onto the heim joint. Run it all the way down to the bottom of the threads and screw the heim joint into the radius bar

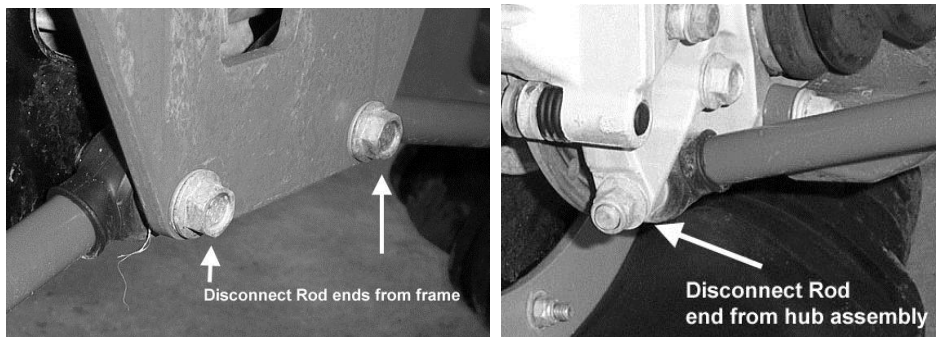


10. Insert the two heim bushings into the eyelet of the heim joint.

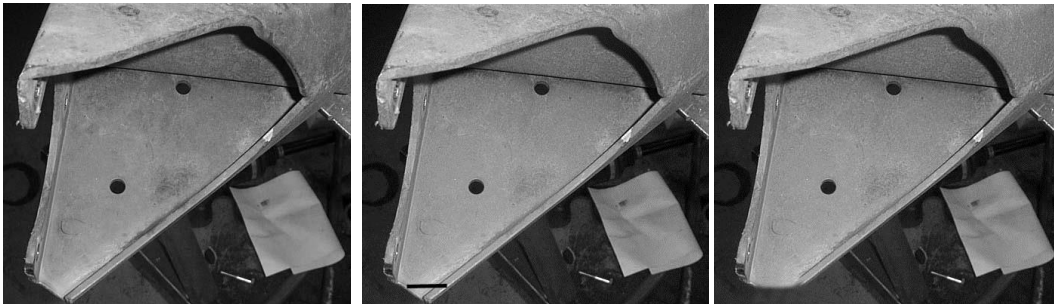


11. Once you have preassembled the radius bars, jack up the rear of the RZR enough so that the rear arms drop to full extension and the tires are off the ground.

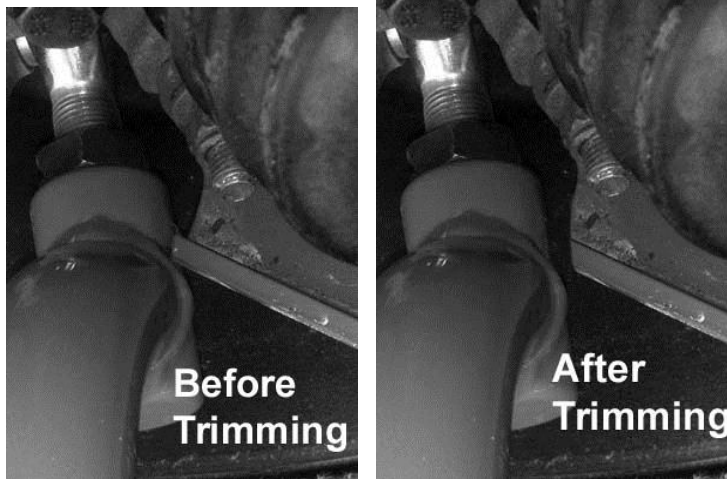
12. Disconnect the rear stock lower radius rods.



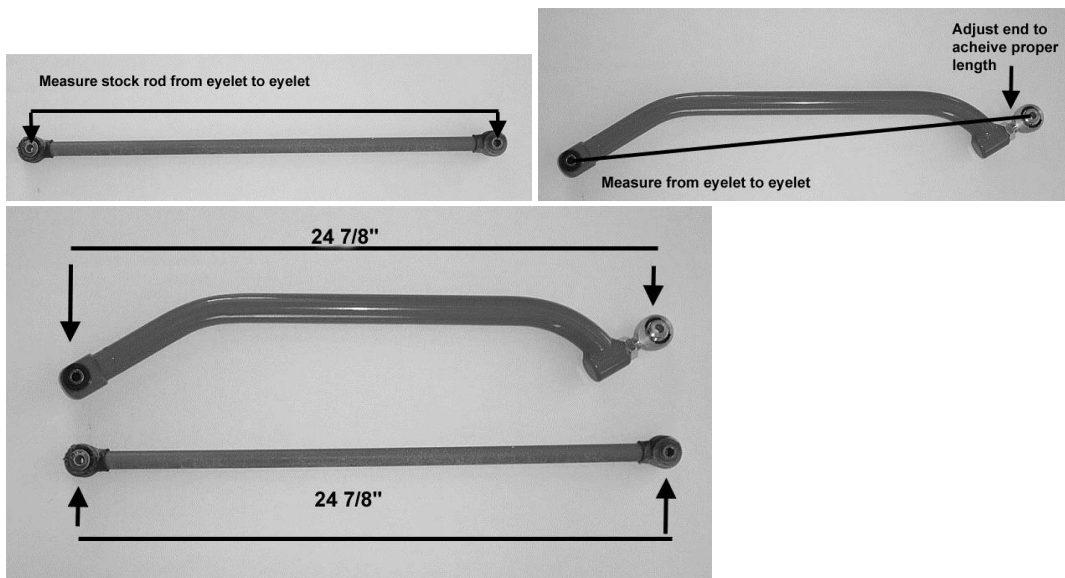
13. If you are running the stock trailing arms on your RZR 1000 you will need to trim a small part of the trailing arm. In our photos, we have disconnected the stock arms to better illustrate where you will need to trim. If you do not trim the area your new radius bars will rub on the stock trailing arm.



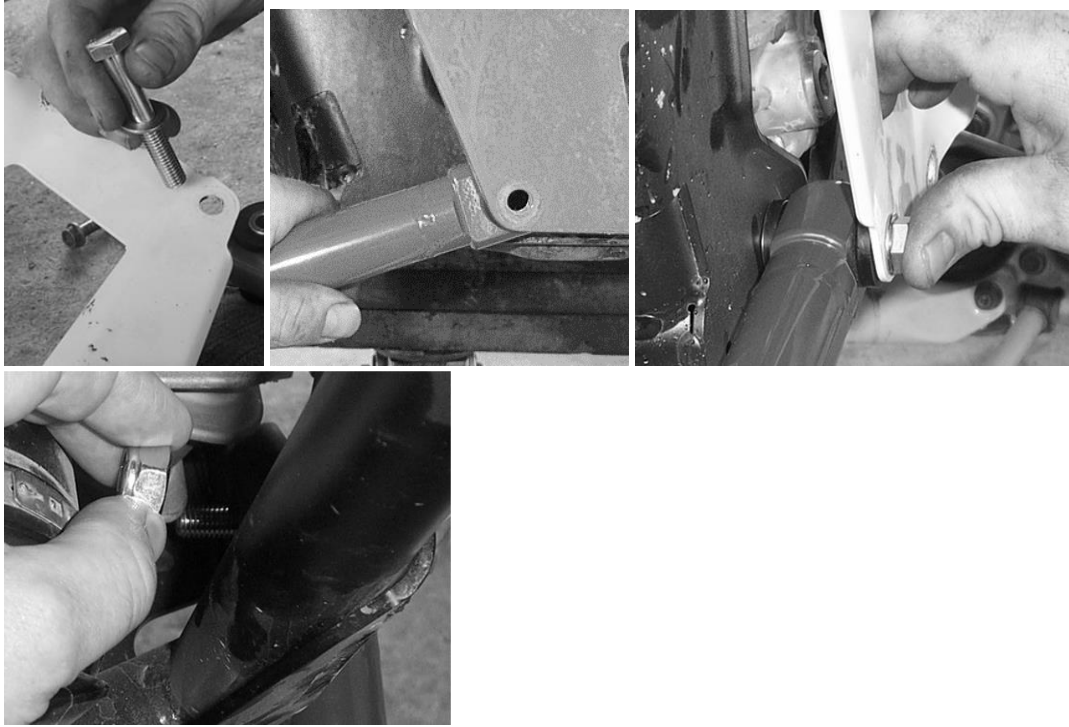
Installed Pictures



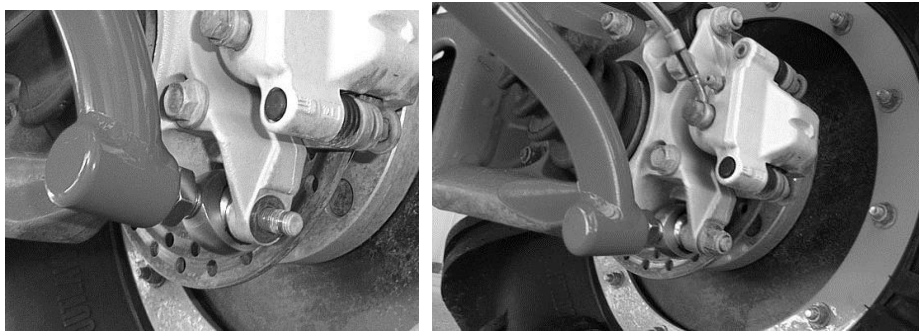
14. When you have removed the rods, you will need to take a measurement of the rod. Measure from eyelet to eyelet. You will need to adjust the new radius rod to this distance. **Our measurement was 24 7/8", but check yours to make sure it is correct!**
15. Set the distance on the new rod by adjusting the heim joint and jam nut.



16. Once you have set the distance on the new rod attach it to the RZR. Attach the ends of the radius bars to the RZR frame using the 12x65mm Hex Bolts, 12mm Flat Washer provided and the stock flat washer, and 12mm Lock Nuts provided in the kit.



17. Connect the new Heim Joint and Heim Adapters to the knuckle assembly using the stock hardware.



18. Lower the jack.



High Lifter Lifetime Warranty

From the beginning, High Lifter has engineered and manufactured some of the toughest, most durable products on the market. That's why this product comes with a Lifetime Warranty. It's our promise that High Lifter will never let you down.

- The **Lifetime Warranty** covers products sold to the original purchaser only and is not transferable. The term of the warranty is for the lifetime of the vehicle in question.
- Normal wear and tear items and finishes, such as, but not limited to: Heim joints, tie rod ends, ball joints, bearings, seals, bushings, bushing sleeves, zinc plating, powder coating, or chipping and discoloration of any finish is not covered.
- High Lifter will ship the replacement product after the returned product has been inspected by High Lifter staff.
- The warranty shall not include claims for damages, installation time or labor charges, economic losses, inconvenience, transportation, towing, down time, direct or indirect or consequential damages or delay resulting from any defect.
- The warranty does not apply to products that have been improperly applied or improperly installed.

Making a warranty claim

1. All claims must be accompanied by the part and the original sales receipt or other acceptable proof of purchase from the original owner.
2. All warranties must be accompanied with a Return Merchandise Authorization (RMA) number. (Contact High Lifter at 318-524-2270 or 800-699-0947 for an RMA number)
3. When shipping the damaged product:
 - a. Write the RMA number on the outside of the box.
 - b. Also include the RMA number, proof of purchase and any notes inside the box.
 - c. Please keep your tracking number and shipment information.
4. The customer is responsible for shipping the product to High Lifter--return shipping within the lower 48 states will be paid by High Lifter products. With all warranty claims, only standard shipping services apply.
5. High Lifter will process your order within 24 business hours of receiving the returned item.
6. **Ship to:** High Lifter Products, 780 Professional Drive North, Shreveport, Louisiana 71105