



ACE - HD Tie Rod Replacement Kit

Polaris Ace 325/570/900 | 2015+

Part #: 5601501

Rev. 070518

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SAFETY WARNING

RT Pro UTV recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known.

WHY BUY RT PRO UTV

Great off-road driving and racing comes with having the most rugged and durable machine in the pack.

RT Pro UTV performance enhancing products will make your off-road machine stronger, tougher and safer so you can have more fun and less breakdowns.

For over a decade, RT Pro UTV staff have been taking brand new UTVs and driving them to their breaking point. When they bend, break or falter, we take them back to shop and create a fix that stops the problem from happening again.

There is no other company in the industry that puts more thought, engineering and design innovation into their products than we do. Our team is made up of off-road racers, mechanical engineers and talented fabricators who live and breathe all things motorsport. Above all, we share a passion for innovation, quality construction and getting things right.

All of our products are designed for assembly by weekend warriors with normal garage tools and the occasional spot-weld. Assembly directions are complete and thorough.

Remember, when you buy a RT Pro UTV product for your UTV, all of the parts have been designed and manufactured in the United States with U.S. steel and other high quality American components.



RTP5601501		
Part #	Description	QTY
04085	Ace Tie Rod	2
04121	Inner Misalignment Spacer	2
04122	Outer Misalignment Spacer	2
A2000	Inner Tie Rod Joint Assembly	2
MXML-10	5/8-18 Heim LH	2
36964	5/8-18 Jam Nut	2

Bolt Pack- R124		
Part #	Description	QTY
R124	Bolt Pack	1
	M10-1.5 x 70mm SHCS	2
	M10 Flat Washer	2
	M10-1.5 Nylock	4

FITMENT NOTES

OEM Replacement Tie rod.
Will not fit ACE XC models

SPECIAL TOOLS

Wheel alignment plate (recommended)

INSTALLATION TIME

Approximately 1.5 hours
Easy Difficulty

INSTALLATION INSTRUCTIONS

1. Park vehicle on a level floor, ensure that the vehicle is shifted into park. Use a floor jack at the front of the vehicle at a secure location on the frame to lift the vehicle. Lift the vehicle so the front wheels are 2 inches off the ground and you are able to place jack stands under the vehicle.

FIGURE 1



2. Place jack stands under the vehicle. Make sure jack stands are placed securely under a frame channel and will not obstruct control arms from cycling downward. Lower the vehicle onto jack stands and ensure vehicle is secure by pushing on the vehicle slightly back and forth. Sometimes the vehicle can slip off the jack stands if they are placed under a plastic skid plate.

FIGURE 2



DISASSEMBLY

3. Remove front tires.
4. Remove cotter pins from outer tie rod ends, then remove outer tie rod nut from the spindle.
5. Remove zip ties from both ends of the inner tie rod boot to allow access to the inner tie rod end. The outer clips can be taken off and re-used by simply prying up on the clip using a flat head screw driver or a pair of pliers. See Figure 3.

FIGURE 3



6. Once both zip ties are removed you can slide the boot down onto the tie rod and access the inner tie rod end. Using a wrench or channel locks to grip the flats on the inner tie rod joint, loosen and remove tie rod from the steering rack.

FIGURE 4



7. Remove the boot from the OEM tie rod by removing the outer tie rod end (NOTE: left hand thread) and jam nut. WD-40 or equivalent may be needed to slide the boot off the tie rod.

ASSEMBLY

8. Using WD-40 or equivalent, spray lubricant on the inside of the boot and slide outer tie rod end through the boot. The boot will typically stretch over the tie rod without the need to trim. If needed, carefully trimming the boot may be necessary in some instances.

Note: Outer end of the tie rod will be marked by with a line at the end as shown in Figure 5.

FIGURE 5



9. Thread provided jam nut (36964) onto heim (MXML-10). Then thread into the outer tie rod end (left handed thread).

Note: Thread heim into tie rod so that approximately 1/8" of thread is exposed, this is a good starting point for the alignment.

FIGURE 6



10. With outer tie rod and boot assembled onto the tie rod, thread the inner tie rod onto the tie rod until 1/8" of thread is exposed. See Figure 7

FIGURE 7



11. Install the inner tie rod end into the steering rack by first applying red locktie to the inner tie rod end. Tighten the inner tie rod end using a wrench or channel locks around the flats of the inner tie rod end. See Figure 8.

FIGURE 8



12. Install outer heim onto spindle by first installing the larger misalignment spacer (04121) into the heim and then installing the smaller misalignment spacer (04122) into the top of the heim. Once misalignment spacers are in place, insert provided M10-1.5 x 70 SHCS through the misalignments and onto the spindle. Secure by using the M10 flat washer and two of the M10-1.5 Nylock nuts. See Figure 9.

FIGURE 9



ALIGNMENT

13. Reinstall tires and torque lug nuts to factory specs (30ft-lbs PLUS 1/4 turn for aluminum, 27 Ft-lbs for Steel wheels)
14. Lift vehicle using a floor jack until you are able to remove jackstands, Then lower vehicle to the ground.
15. Turn the steering wheel so that is positioned straight.
16. Measure very front of tires vs very rear of tires, alignment toe plates are recommended for this process but simply measuring from the center parting line of the tire can suffice. Toe should be set to 1/8" toed in overall, meaning the distance between the front of the front tires is 1/8" less then the distance between the rear of the front tires.
17. To adust toe simply twist tie rod in or out to adjust to the recommended toe settings. Be sure equal adjustments are made to each tie rod. Once alignment is set, tighten jam nuts on each tie rod. See Figure 10.

FIGURE 10



18. Once jam nuts are tight, slide tie rod boot over inner tie rod joint and onto the rack. Zip tie inner boot to steering rack. Slide the outer boot onto threaded portion of inner tie rod joint and secure with a zip tie.

THANK YOU FOR YOUR BUSINESS!

For questions or additional information feel free to call and ask for tech support or email us through our website at: rtproutv.com/contact



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