TRAIL FORTRESS

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Rough Country 93115 Installation Instructions

Rack and Pinion for Polaris Ranger XP 900 and XP 1000

Part number: 93115

trailfortress.com/rack-and-pinion-polaris-ranger-xp-900-and-xp-1000-rough-country-93115

Scan for fitment, price and install help



POLARIS 2017-18 Ranger Rack and Pinion

Thank you for choosing Rough Country for all your vehicle needs.

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.
If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.
Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.
Periodically check all hardware for tightness.

KIT CONTENTS:
Rack and Pinion x1
Tie Rods x2
Tie Rod Ends x2
Boots x2

TOOLS NEEDED:
8mm Allen Wrench
13mm Socket/Wrench
15mm Socket/Wrench
16mm Socket/Wrench

HARDWARE INCLUDED:
8MM-1.25x100MM Hex Bolts x4
10MM-1.5x80MM Socket Head Bolts x2
10MM-1.5 Lock Nuts x2
Top Stand Off x2
Bottom Stand Off x2

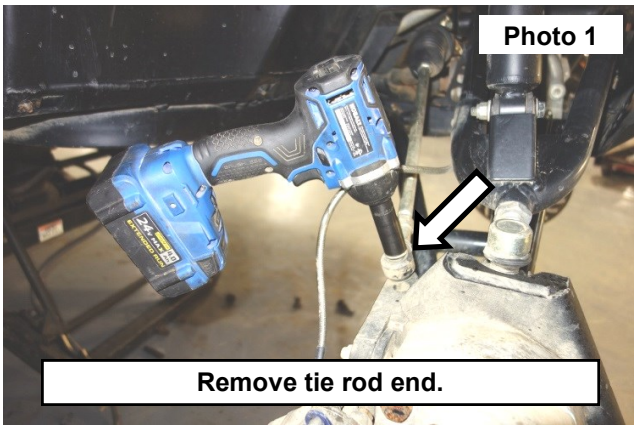


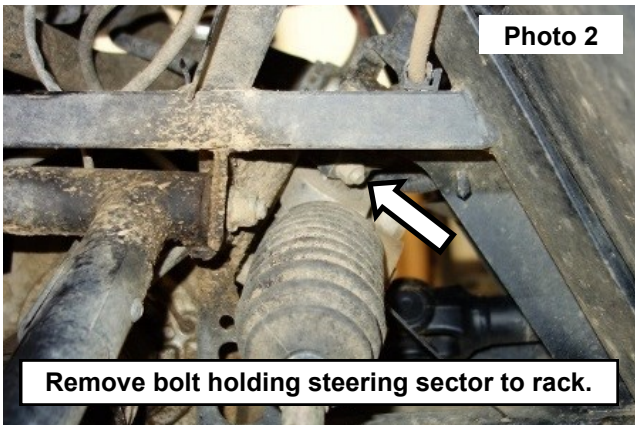
Torque Specs:

Size	Grade 5	Grade 8	Size	Class 8.8	Class 10.9
5/16”	15 ft/lbs	20ft/lbs	6MM	5ft/lbs	9ft/lbs
3/8”	30 ft/lbs	35ft/lbs	8MM	18ft/lbs	23ft/lbs
7/16”	45 ft/lbs	60ft/lbs	10MM	32ft/lbs	45ft/lbs
1/2”	65 ft/lbs	90ft/lbs	12MM	55ft/lbs	75ft/lbs
9/16”	95 ft/lbs	130ft/lbs	14MM	85ft/lbs	120ft/lbs
5/8”	135ft/lbs	175ft/lbs	16MM	130ft/lbs	165ft/lbs
3/4”	185ft/lbs	280ft/lbs	18MM	170ft/lbs	240ft/lbs

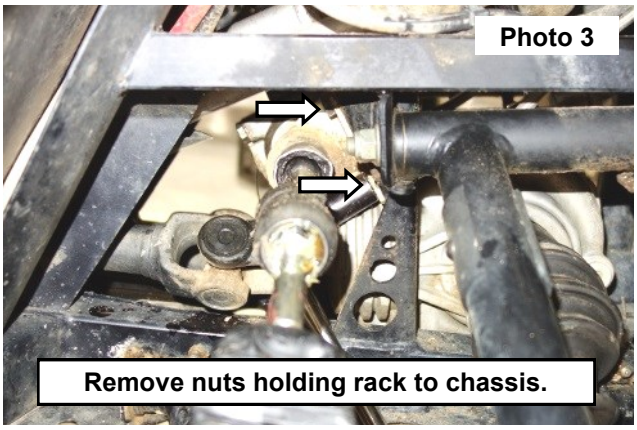
INSTALLATION INSTRUCTONS

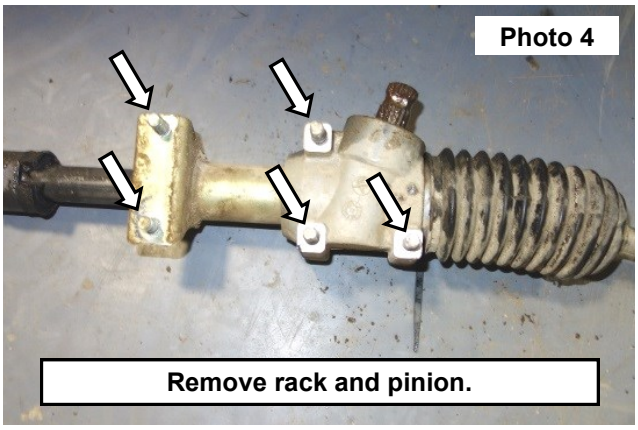
1. Jack up the front of the vehicle and place on jack stands.
2. Remove the front wheels.
3. Remove the tie rod end using a 15mm socket/wrench. **See Photo 1**.
4. Remove the bolt holding the steering sector to the steering rack using a 13mm socket/wrench. **See Photo 2**.



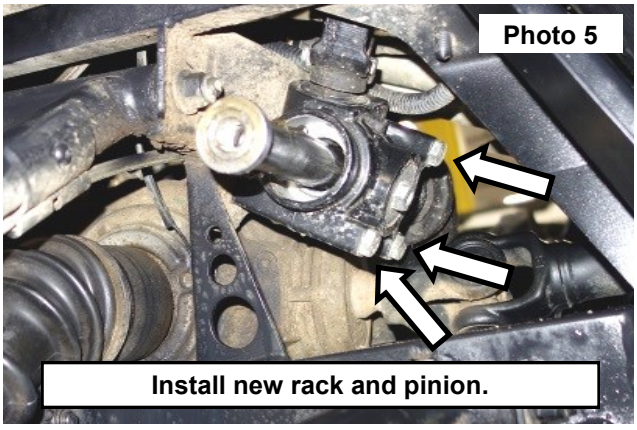


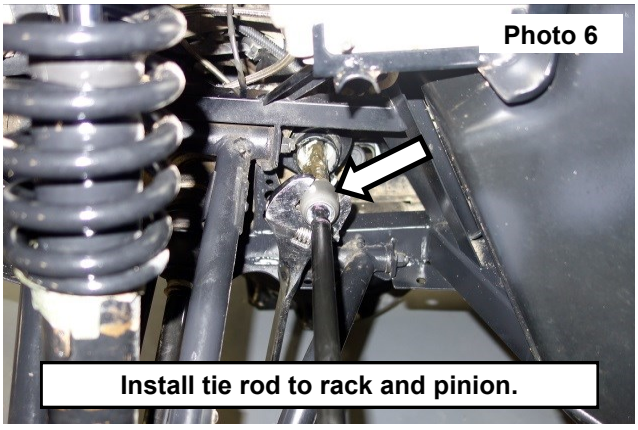
5. Remove the nuts holding the rack to the chassis using 13mm socket/wrench and remove rack and pinion. **See Photo 3** and **Photo 4**.



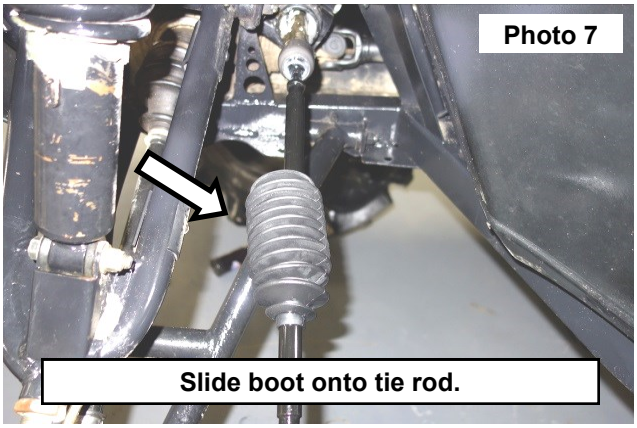


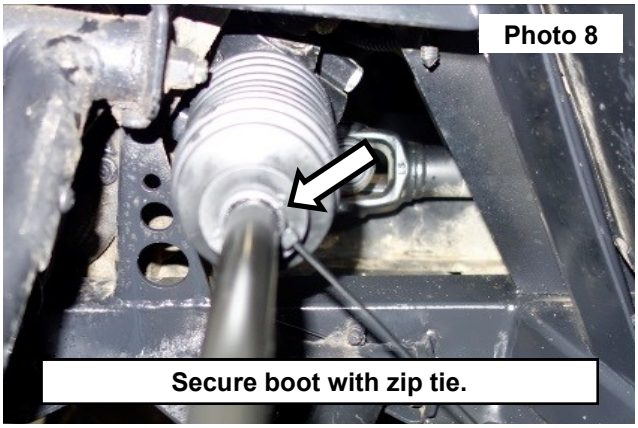
6. Install the new rack and pinion using the supplied 8MM-1.25x100MM in the stock locations. **See Photo 5**.
7. Install the tie rod to the rack and pinion. **See Photo 6**.



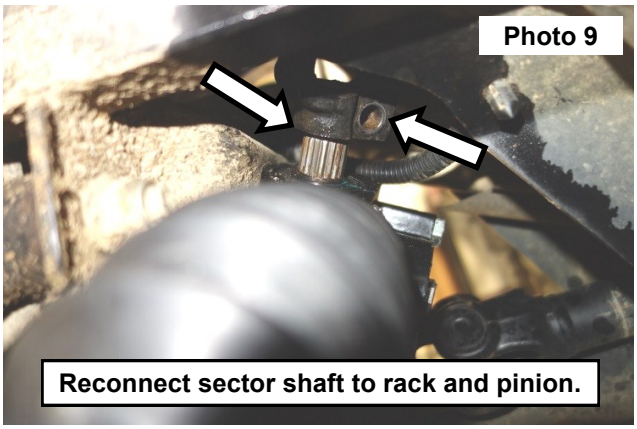


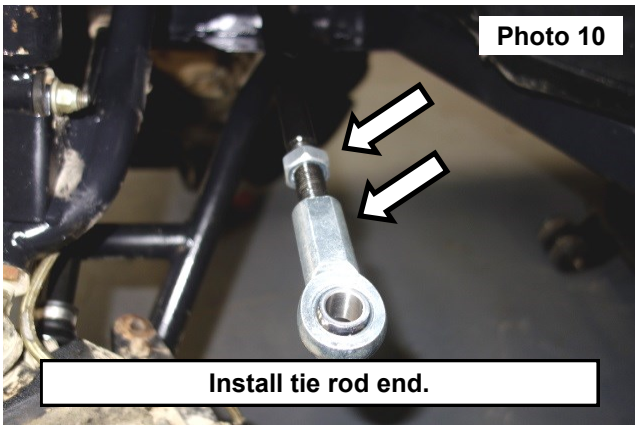
8. Slide the boot onto the tie rod end and secure using a zip tie. **See Photo 7** and **Photo 8**.



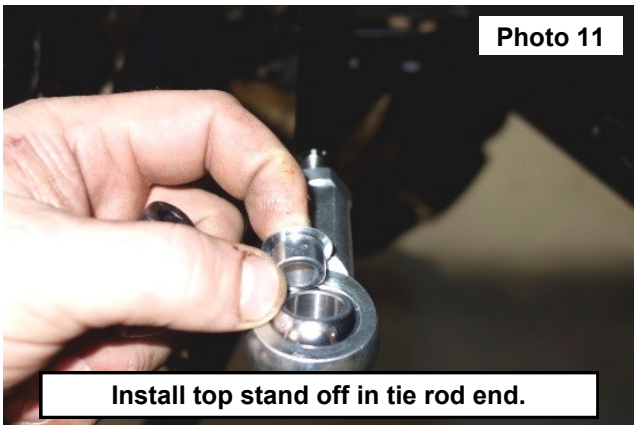


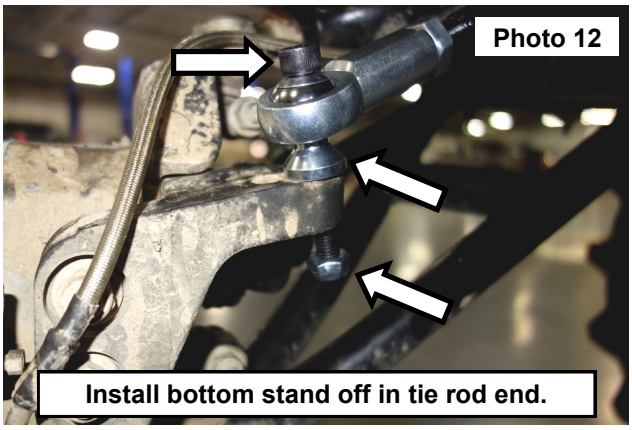
9. Reconnect the sector shaft to the rack and pinion using the stock hardware and 13mm socket/wrench. **See Photo 9**.
10. Install the supplied nut and tie rod end. **See Photo 10**.





11. Install the supplied top and bottom stand off in the tie rod end using the supplied 10MM-1.5x80MM socket head bolt. Reinstall tie rod end to the knuckle with the supplied nut and tighten using an 8mm Allen wrench and 16mm socket/ wrench. **See Photo 11** and **Photo 12**.





12. Put on wheel and lower.

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