



RZR 900 / XP 1000 Front Arm Brace

Polaris RZR 900/1000/Turbo | 2014-2018

Part #: 5501014

Rev. 072318

491 W. Garfield Ave., Coldwater, MI 49036 · Phone: 517-278-7768

E-mail: sales-rtpro@ridefox.com

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.



RTP5501014		
Part #	Description	QTY
04041	Base Support Plate - DRV	1
04042	Base Support Plate - PASS	1
04043	Vertical Brace - DRV	1
04044	Vertical Brace - PASS	1
04490	Steering Rack Brace	1
04046	Horizontal Brace - DRV	1
04047	Horizontal Brace - PASS	1
04048	Horizontal Brace Spacer	4
04491	Winch Plate	1

Bolt Pack		
Part #	Description	QTY
R106	Bolt Pack - Front Arm Brace	1
	3/8"-16 x 1" hex bolt grade 8 yellow zinc	15
	3/8"-16 nylock nut clear zinc	15
	M10-1.25 nylock nut yellow zinc	6
	M10-1.5 nylock nut clear zinc	2
	M10-1.5 x 100mm hex bolt	2

FITMENT NOTES

N/A

SPECIAL TOOLS

N/A

INSTALLATION TIME

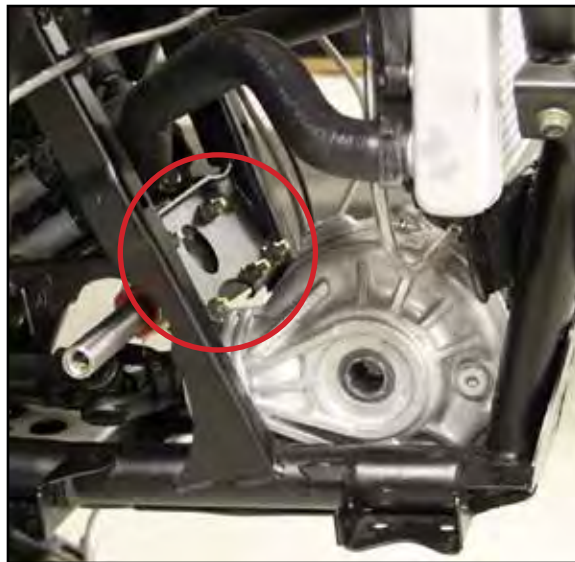
Approximately 4 hours
Medium/Hard Difficulty

INSTALLATION INSTRUCTIONS

TEAR DOWN:

1. Park vehicle on a clean 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 approximately 2 inches off the ground.
2. Place jack stands under the vehicle. Make sure the jack stands are placed securely under a frame channel and will not obstruct any of the mounting points or travel of the control arms. Lower the vehicle onto the jack stands and ensure the vehicle is secure by pushing on the vehicle slightly back and forth. Please note that jack stands placed under the plastic skid plate can cause the vehicle to slip off.
3. Remove the front tires.
4. Remove the front shocks.
5. Remove the caliper bracket bolts then slide calipers off the brake disc.
6. Remove hub castle nut. Slide hub out of front knuckle.
7. Remove tie rod from outer knuckle.
8. Remove upper and lower ball joint pinch bolts from knuckle. Once removed, slide upper and lower control arms out of the knuckle.
9. Remove front fascia from vehicle to access the front upper control arm front bolt.
10. Remove upper and lower control arms from vehicle.
11. Remove four passenger side nuts from steering rack. You do not need to remove the furthest bolt on the drivers side. See Figure 1.

Figure 1



INSTALLATION:

12. Install steering rack brace (04490) using stock hardware. Torque to factory specifications (16 ft-lbs/ 22Nm) See Figure 2.

Figure 2



13. Install winch plate (04491) to steering rack brace (04490) and to the front frame (4 x 3/8-16 x 1" hex bolts and nylock nuts)

Figure 3



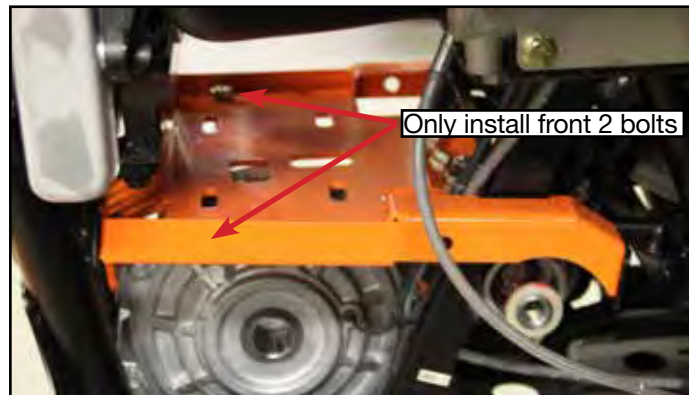
Figure 4



14. Install horizontal braces (04046/04047) to winch mount. If there is space left between the control mounting tabs, fill using provided spacers (04048) so that the horizontal braces sit flat against the factory control arm mounting tabs. Install front two bolts to connect the horizontal bracing(04046/04047 to the winch mount (04491). See Figure 4.

Note: Winch plate (04491) mounts above horizontal bracing (04046/04047). See Figure 4.

Figure 4



15. Install front upper control arm by inserting hardware through stock tabs, control arm, and horizontal bracing (04046/04047). The front hardware is easiest to install if inserted from rear towards the front of the vehicle so that the nut is on the front of the frame. Use provided M10-1.25 nylock nuts on the factory bolts.
16. Install lower base support plates (04041/04042) These brackets sit on the outsides of the stock tobs of the lower control mounting location. See Figure 5 (04042 shown). Once in place, install lower control arm and insert hardware through the lower base support tabs, stock tabs and control arms. Use the supplied M10-1.5 x 100mm hex bolt on the front mounting location of the lower arm by inserting the bolt from the rear of the vehicle towards the front so that the nut is on the front of the frame. Use provided M10-1.5 Nylock nut on front bolt and M10-1.25 nylock nut on rear factory bolts. Tighten control arm mounting hardware to 42 ft-lb / 57Nm.

Figure 5



17. Install vertical braces (04043/04044). These braces sit on the outside of the lower support plates (04041/04042) and on the inside/lower side of horizontal braces (04046/04047). See Figure 6. Once in place, secure using provided 3/8-16 x 1" hex bolts and nylock nuts.

Figure 6



Figure 7



18. Once vertical braces (04043/04044) are installed tighten all hardware on front arm brace.
19. Slide axle through main bearing in the knuckle. Insert ball joint pins of upper and lower control arm into knuckle. Secure with stock pinch bolt hardware. Torque pinch bolts to factory specification (42 ft-lbs / 57 Nm).
20. Attach tie rod to knuckle using factory hardware, torque to factory specification (15 ft-lbs / 20 Nm +90 degrees rotation). Insert cotter pin and fold over.
21. Slide hub through main bearing and onto the axle splines. secure with factory washers and wheel nut. Tighten wheel nut until snug.
22. Install caliper onto brake disc, ensure that brake pads are in place as you slide it over the brake disc. Attach caliper to knuckle using stock hardware. Use red locktite or equivalent on both bolts. Torque to factory specification (40 ft-lbs / 54 Nm).
23. Install front shocks using factory hardware. Torque bolts to factory specification (45 ft-lbs / 61 Nm).
24. Install tires and tighten lug nuts until snug.
25. Install front fascia.
26. Lift vehicle, remove jackstands and lower the vehicle to the ground.
27. Remove wheel cover and torque hub castle nut to factory specifications (110 ft-lbs / 149 Nm) Install cotter pin once castle nut is torqued and fold over.
28. Torque lug nuts to factory specifications (120 ft-lbs x 163 Nm for cast aluminum wheels).

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



Show Us Your Ride!

Get a photo of your RT Pro UTV equipped vehicle and send them in for a chance to be featured in our customer gallery!