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## **RZR XP/XP4 900 Weld-In Gusset Kit**

**Polaris RZR XP/XP4 900 | 2011-2014**

**Part #: 5501805**

**Rev. 051517**

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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.

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### **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.



<b>RTP5501805</b>		
<b>Part #</b>	<b>Description</b>	<b>QTY</b>
04407	Lower Front Cap - DRV	1
04408	Lower Front Cap - PASS	1
04409	Lower Mid Rear Cap - DRV	1
04410	Lower Mid Rear Cap - PASS	1
04411	Flat Washer Gusset	4
04412	Upper Mid Brace - DRV	1
04413	Upper Mid Brace - PASS	1
04414	Upper Steering Rack Brace - DRV	1
04415	Upper Steering Rack Brace - PASS	1
04416	Lower Rear - Rear Gusset - DRV	1
04417	Lower Rear - Rear Gusset - PASS	1
04418	Lower Mid Vert Gusset	2

<b>RTP5501805 - continued</b>		
<b>Part #</b>	<b>Description</b>	<b>QTY</b>
04419	Lower Front - Front Gusset - DRV	1
04420	Lower Front - Front Gusset - PASS	1
04421	Upper Rearward Corner Gusset	2
04422	Upper Front Corner Gusset - DRV-PS	2
04424	Rocker Panel Gusset - DRV	1
04425	Rocker Panel Gusset - PASS	1
04426	Lower Front Mount Gusset	2
04427	Protrusion Protection Channel - DRV	1
04428	Protrusion Protection Channel - PASS	1
04429	A-Pillar Brace - DRV	1
04430	A-Pillar Brace - PASS	1
R168	#Bolt Pack	1

## FITMENT NOTES

This kit is designed to fit as well as it can while working with OEM tolerances. It may require substantial fitment adjustments.

## SPECIAL TOOLS

Angle grinder, MIG or TIG welder, misc. fabrication tools

## INSTALLATION TIME

Approximately 8-12 hours  
Medium/Hard Difficulty

# INSTALLATION INSTRUCTIONS

You need to strip down your machine as far as you can go. The more that comes off, the easier this job is. You must have the hood, rocker panels and front arms off. It helps to remove the tie rods and front axles as well. This kit does not involve the rear chassis so nothing needs to be done to the rear.

Hold up all the parts to where they need to be welded and mark the lines with a marker. Then use a grinder to remove the paint from the frame. After this you are ready to start welding.

*NOTE: Be sure to always be conscious of where components end up after final installation. For example, don't weld a-arm gusset too close to the space the arm has to cycle! Pay attention to how the machine comes apart, and if needed, temporarily reinstall components that may affect the placement of your gussets!*

*Optional: Note the four round washers provided with this kit. These are for the outside surfaces of the upper A-arm mounts. We always recommend using the rear washer unless you plan to use a stepped washer (RTP5500115) in its place. The front washer should not be used if you plan to use some kind of front upper chassis brace. This brace serves the same purpose and more.*

*Note: be aware the length of the upper pivot bolt may become insufficient when stacking these components so pay attention to this as well.*

1. Start with the lower arm mount gussets. Assemble all the parts using the OEM pivot bolts and **MAKE SURE** to use the OEM pivot sleeves as well so not to over tighten the gap your arms need to fit back in to!

*Note: we've found it best to actually leave about 1/32" free-play in between tabs. Also, be sure to hold up your arms to your machine to check alignment before and after welding.*

**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**



**Figure 5**



**Figure 6**



2. Next move on to the upper arm mount gussets. This is pretty straight forward. You may need to trim the main parts a little to get them to fit your particular chassis.

**Figure 7**



3. Follow the installation of the upper arm braces by installing the upper corner gussets with the RT logos.
4. Next install the gussets above the steering rack / tie rod ends. Make sure the bend on these parts face inwards for proper hardware clearance.
5. The small little triangle gussets that you can't figure out where they go belong in the small back corner just above the steering rack. You'll need to remove the wire harness and radiator hose as much as possible to avoid burning them.

**Figure 8**



**Figure 9**



6. Next install the vertical struts as shown. There is no particular science to these since they will do their job any way they're installed. Just go with whatever fits and looks best.

**Figure 10**



**Figure 11**



7. This concludes the installation. Use the supplied nyloc nuts to reassemble your a-arm pivots. You will need to trim the plastic slightly inside the rocker panel during reassembly. This is simple and easy to do. Just hold up the panel to the machine and take an estimate of what and where you need to trim.

**Figure 12**



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## **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](http://rtproutv.com/contact)



### **Show Us Your Ride!**

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