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## RZR 900 XC/Trail 2" Lift Kit

Polaris RZR 900 XC/Trail | 2015 - 2020

Part #: 5101256

Rev. 112321

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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.



RTP5101256		
Part #	Description	QTY
04100	Front shock relocation - front	1
04026	Front shock relocation - middle	1
04101	Front shock relocation - rear	1
04102	Rear Shock Relocation	2
DWTM-12	12mm Heim Joint - Male	2
DWTF-12	12mm Heim Joint - Female	2
N12MCJ	M12-1.75 Jam Nut Clear Zinc	2
04103	12mm OD x 10mm ID Misalignment Insert	8
04021	Rear Spacer Sleeve - 0.625 x 0.095 x 0.750	2
04024	Front Spacer Sleeve - 0.625 x 0.095 x 1.250	2

RTP5101256 - Bolt Packs		
Part #	Description	QTY
R114	Front Bolt Pack - 900XC 2"	1
	M10-1.5 x 30mm hex bolt	3
	M10-1.5 x 65mm hex bolt	4
	M10 flat washer	18
	M10-1.5 nylock nut	7
	M12-1.75 x 65mm bolt	1
	M12-1.75 nylock nut	1
	M12 flat washer	2
R115	Rear Bolt Pack - 900XC 2"	1
	M10-1.5 x 55mm hex bolt	2
	M10-1.5 x 50mm hex bolt	2
	M10-1.5 nylock nut	4
	M10 flat washer	16
	3/8"-16 nylock nut	4
	3/8"-16 x 1" BHCS	4

## FITMENT NOTES

Fits all 50" and 55" 2015+ RZR900 models

## SPECIAL TOOLS

3/16" and 3/8" Drill bit

## INSTALLATION TIME

Approximately 2 hours  
Easy/Medium Difficulty

# INSTALLATION INSTRUCTIONS

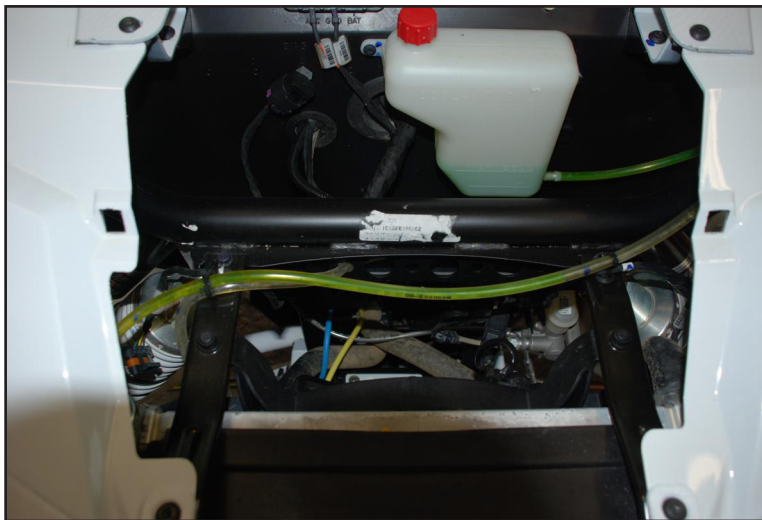
## INSTALLING THE FRONT LIFT KIT

1. Lift the RZR and use two quality jack stands to secure.
2. Spin the front tires and check for binding.

Note: The wheels DO NOT need to be removed for the installation of this lift. It may make it easier, but is not required.

3. Snip the zip-tie holding the wire harness to the upper frame cross member.
4. Pull the differential vent tube from the upper frame cross member and reroute away from shock mount channel.
5. Locate the bag of hardware for the front brace (R114)

Figure 1



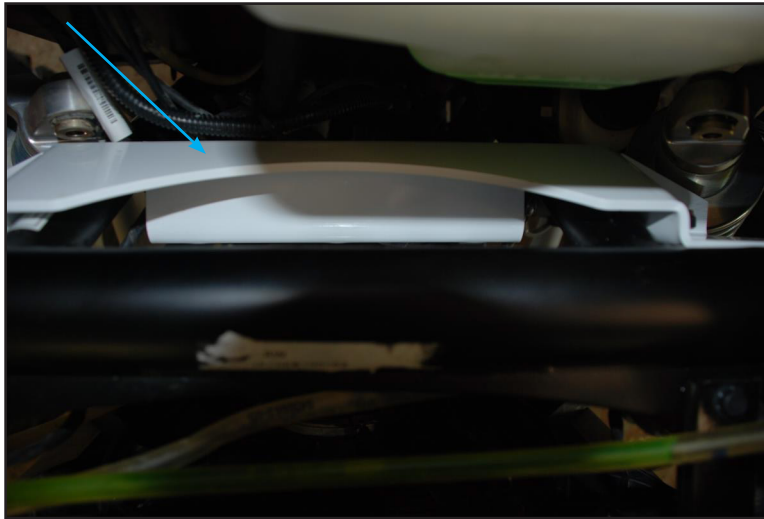
6. Use 15mm socket and open-end (or box-end) to remove the top of the front shocks.

Figure 2



7. When installing the lift bracket make sure the bracket with the "U" shape goes behind the front factory shock mounts and frame facing upward.

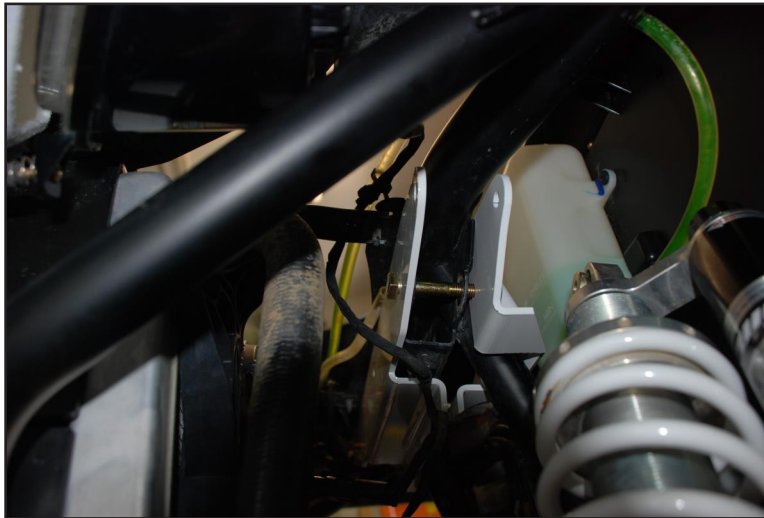
Figure 3



8. Install the front lift bracket into the factory upper shock mounts and install two bolts (do not tighten at this time) .

Note: Use supplied spacers (not shown in pictures) to fill the space between the original shock mount tabs.

Figure 4



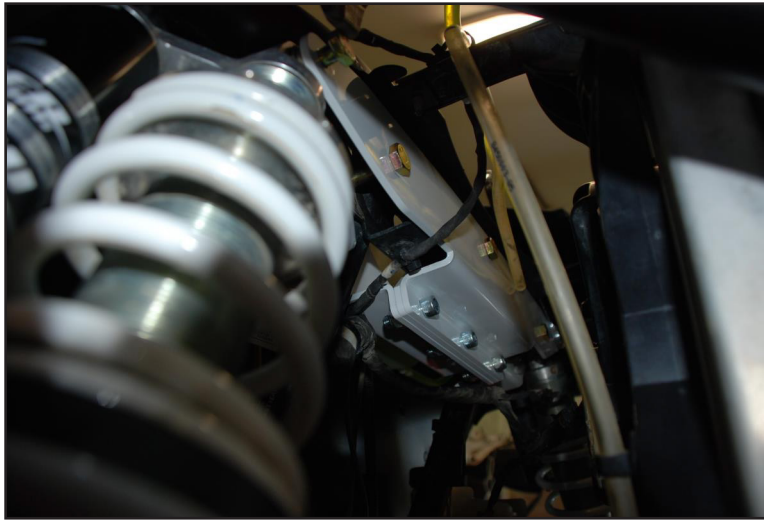
9. It should now look like the picture below.

Figure 5



10. Now install the (3) three shorter bolts and nuts. The picture below shows the remaining center “A” bracket is also installed at this time before the bolts go in.

Figure 6



11. Reinstall the front shocks in the new outer bracket holes and tighten all bolts at this time.

Note: Use the 4 remaining M10 flat washers on outsides of shock bushings when installing in to new locations to help take up the gap.

12. With all the bolts tightened remove the stands and lower the RZR back to the ground.

## INSTALLING THE REAR LIFT KIT

13. Lift the RZR and use two quality jack stands to secure.
14. Spin the front tires and check for binding.
15. Remove wheels.
16. Remove shocks (at least upper mounts).
17. Remove OEM sway bar links (save bolts to be reused).
18. Fit up brackets using OEM shock bolt hole to align.
19. Transfer and mark back holes for drilling.
20. Center punch marked holes and drill first with 3/16" pilot drill.

Note: the pass. side upper hole will require drilling at an angle if the exhaust isn't removed. This is OK.

21. Finally drill holes with a 3/8" drill bit or slightly larger (recommended)
22. Install 3/8" button head bolts washers and nyloc nuts.



Figure 7

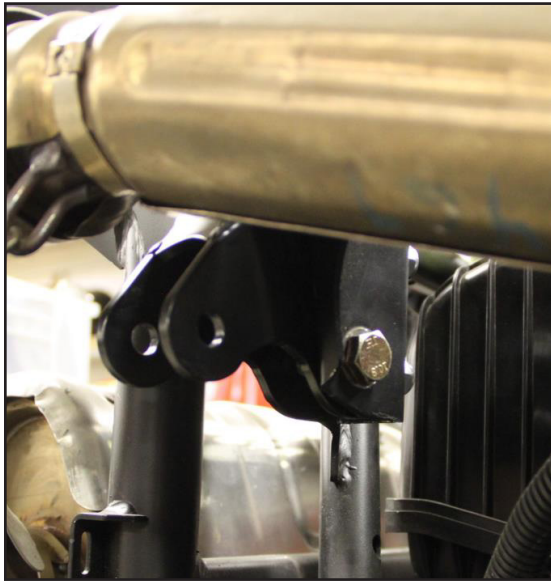


Figure 8

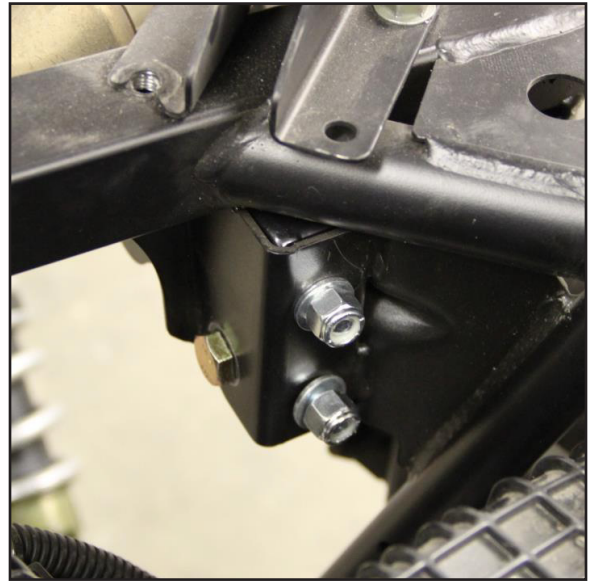


Figure 9

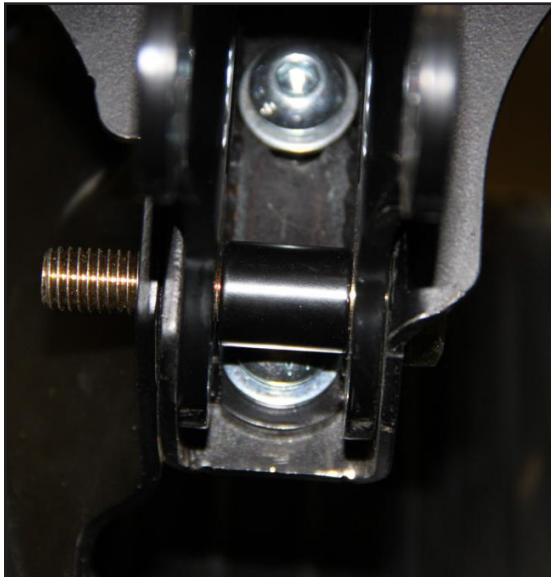
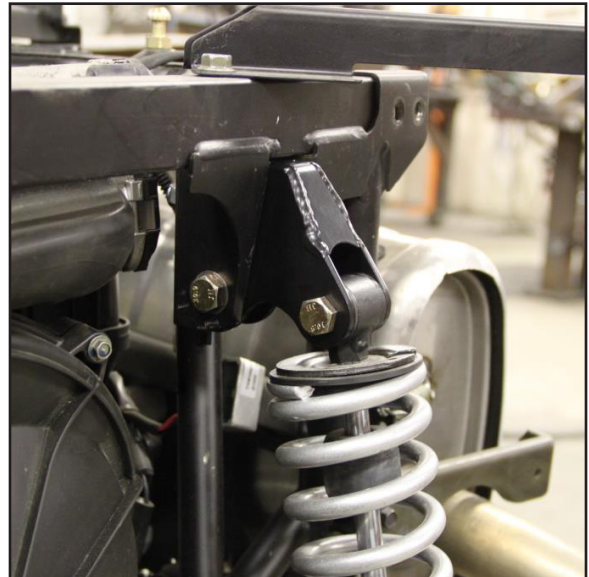


Figure 10



23. Next, tighten the upper bolts but make sure the OEM shock mount hole is temporarily installed to maintain location.
24. Then remove OEM shock mount bolt and tighten the lower button head bolt.
25. Now you may permanently install the OEM shock mount location bolt using the supplied  $\frac{3}{4}$ " long spacer tube.
26. Reinstall shock on A-arm (if it was removed).
27. Install the upper shock in the new location loosely before final tightening of the OEM shock location bolt then tighten both bolts.

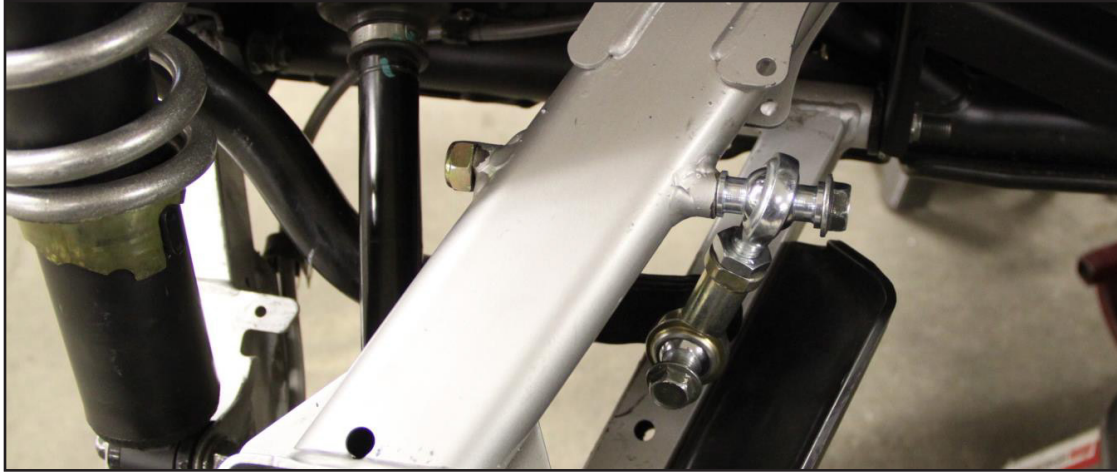
## INSTALLING THE REAR SWAY BAR LINKS

28. Thread the supplied jam nut on to the male heim until the nut bottoms out on the threads.
29. Thread the female heim on to the male heim until the threads bottom out.
30. Using the OEM bolts and the supplied high misalignment spacers install the new links. (doesn't matter which end is male or female)

31. Use the supplied M10-1.25 nyloc nuts in gold to fasten the OEM bolts and tighten.
32. Make sure heads of heim joints are clocked at 90° from each other, then tighten the jam nut.

Note – Check sway bar for clearance under axle and above the front tube of the lower A-arm. Adjust length of links if necessary.

Figure 11



Now you are ready to enjoy your new RZR. With this kit you will have increased ride height because by design, we relocate the factory shock geometry which makes less work for the OEM springs which in turn raises the vehicle. Not only is this a better way to lift the machine than a lower shock relocation; it is also a safer way because with our design we are able to control how far down the shock allows the suspension to drop down. Our design will not allow your CV's to bind because the angle remains the same as stock. You will however have a slightly higher operating angle at ride height due to the lift, (as with any lift) but the affects will takes years to wear out the CV's depending on your mileage.

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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)



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