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## **Commander Fox Full Spring Kit**

**Can Am Commander | 2010+**

**Part #: 5302134**

**Rev. 120116**

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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.



RTP5302134		
Part #	Description	QTY
25100300S	Front Coil Spring	2
25100350S	Rear Coil Spring	2
25035900S	Frt/Rear Coil Spring	4
04003	Coil Spacer	4
04006	Coil Retainer	6
04063	Lower Coil Retainer	2

## FITMENT NOTES

2011-2012 models require supplied tapered adapter ring on rear lower retainer

## SPECIAL TOOLS

N/A

## INSTALLATION TIME

Approximately 1 hour  
Easy/Medium difficulty

# INSTALLATION INSTRUCTIONS

## INSTALLING THE SPRINGS

1. Remove shocks from machine and back off Preload Adjuster Nuts until there is enough room to remove the Lower Retaining Rings from the shock assemblies.
2. Slide OEM springs off shock assembly and discard. Keep the Lower Retainer Rings for re-use.

3. Slide the new springs on starting with an adapter ring then the short springs. Next slide the supplied Spring Spacers on to the shock bodies. The short shoulder of the spacers should face the short spring and slide inside of it.

*NOTE: All short springs are the same rate so they can go on any shock in any order.*

4. Next install the long springs, the remaining adapters and then Lower Retaining Rings. The lighter rates go on the front shocks. The rate can be found printed on the sides of the springs. Once the shocks are reassembled you are ready to move on to the initial setup.

*NOTE: Use the two angle cut adapter rings on the rear lower shock retainers for extra clearance on 2011-2012 trailing arms.*

*NOTE: You may need to slightly compress the assembly to get the retaining ring in.*

*NOTE: While the shocks are off the machine be sure to lubricate the eyelets on the shocks with some grease or your preference of lubricant.*

## **SETTING UP THE SPRINGS**

Settings vary so much from vehicle to vehicle. It is impossible for us to give a universal answer to where you should start. Like with any coil-over shock, spring rates and preload take some fine tuning to achieve the best results. The good news is we have the rates figured out for 95% of users. As for the preload, we recommend using this formula:

5. Due to the length of this spring assembly, once the assembly is installed the springs are set at 0-1/16" of preload. For your reference, consider your zero preload to start with the adjuster nuts backed all the way up against the head of the shock.
6. From Zero Preload, tighten the Preload Adjuster Nuts down 1/4". Use the exposed threaded bodies of the shocks as a reference point to know how far you're going.
7. Set the machine on the ground after setting both front and rear Initial Preload. Before measuring your ride height, take the vehicle for a quick ride around the driveway.

*NOTE: The suspension needs to "settle" and will only do so by driving it. Jumping up and down on the bumpers will not suffice.*

8. Once the suspension is settled, measure the front and rear ride height. At RT Pro we measure the rear at the bottom of rear frame and the front at the bottom of the chassis right below the rear mounting point of the lower A-arm.
9. As a base recommendation, we set most of our vehicles at 12" front and 11" rear. The Commander seems to jump and handle better with the front end about 0.5-1" higher than the rear. For terrain with less ground clearance required we always prefer the height as low as possible. This is our preference so your mileage may vary. There is no real "wrong" way to set your vehicle up. It should always be whatever works best for you. Of course you can always add more preload to get a little extra ride height but will sacrifice ride quality.
10. In the initial stages of adjustment we recommend starting with 1/2" adjustment increments. Once you feel you're close, start making 1/4" adjustments and then 1/8" until you are personally satisfied with the height and ride of your machine for your applications. It's fine to run up to 1.5" of preload with these springs but if your ride requires more than this we recommend swapping to a stiffer main spring.

## **VALVING ADJUSTMENTS**

We recommend initially backing off the compression adjusters all the way. The softer these are set the less fluid friction is created and longer the shock fluid will resist overheating. Once ride height is set you can start slowly turning these external compression adjusters in a little bit at a time until you achieve the desired firmness. If you can't get the firmness you desire back them off and add 1/4" preload to the springs front and rear. Keep doing this until it meets your needs.

## **CUSTOM TUNING**

If you have followed the instructions, done all the necessary adjustments, have properly operating shocks and are still unsatisfied with your ride or performance feel free to call and ask for a spring tech. We will work with you to determine if there is a better fit for your needs. We can mix and match lots of options to make custom tailored packages to fill individual needs. Overall we've found this one rate to work excellent for all applications with valving adjustments.

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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!**

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