

# Ricochet UTV & ATV Armor Kit Installation Tips

Thank for your purchase of this Ricochet Off-Road Armor Kit. All of our kits are custom designed to fit each model and should install hassle free with no additional modifications required. Please carefully read through all included instruction sheets before beginning your install.

The tips described on this sheet are general mounting tips that may or may not apply to your particular model, refer to the attached model specific instructions for a step by step mounting procedure.

If you do encounter a problem during installation please check the FAQ on our website or feel free to contact us by phone or email using the contact info at the bottom of this page.

## **Required Tools:**

(refer to your hardware placement guide for bolt sizes)

## **Button Head TORX Bolts:** (socket bit is highly recommended)

8mm bolts use a T-40 TORX bit

6mm bolts use a T-30 Torx bit

## **Hex Bolts & Nuts:**

10mm bolts uses 17mm

8mm bolts uses 13mm

6mm bolts uses 10mm

1/4"-20 bolts uses 7/16"

## **Drill Bits:**

While we try to avoid drilling whenever possible some models require one or two mounting points to be match drilled. When instructions call for a drilled mounting point use an **11/32"** bit to match drill through the mounting point on the skid plate only after the plate has been fully secured to your machine using the other hardware listed on your hardware guide.

## **Locking Nuts:**

Most sets will include two types of locking nuts. Loose nuts are Nylock, and any nuts welded onto other hardware are pinch-style Stover lock nuts. It is highly recommended that you use a bit of Anti-seize or a drop of oil on the threads of the welded-on pinch style nuts, this will make the bolts go on and come off much easier.

## **Other helpful tips:**

- Before you begin the installation organize all the included hardware according to the hardware placement sheet so you can quickly find the correct bolts and brackets when you need them.
- Install all bolts finger-tight at first until all hardware has been installed, this will give you maximum adjustability.
- When using the cupped washers to secure the plates to factory mounting points do not over torque the bolts because the threads can strip easily. If you do strip one out the simplest way to repair the thread is to use a 1/4"-20 x 5/8" self tapping bolt.
- You may find it easier to remove the rear tires when installing the rear a-arm guards, it's typically very tight and hard to see when the tires are left on.

**Contact us at 1-866-273-1197 or [dh\\_gibbs@comcast.net](mailto:dh_gibbs@comcast.net) with any questions or concerns.**

There is also a video on our YouTube Channel showing the installation procedure.

## Hardware placement and instructions for part# 964U Polaris RZR Turbo S 4 seater

Step One: Remove the factory skids from the bottom of your machine.

Step Two: Take the 918RU plate, (this is the very rear plate of the machine) and get it into position. It will be easier to hang the front "B" Clamps on the frame before putting the skid into position. Once the front clamps are hung, mount the plate using the 833 cup washers and 6x16 flange bolts. Leave all of these bolts loose for now. Next you can take the hardware for the clamps and get those started. The hardware guide will tell you the length of the bolts to use, and what locations to use them. Use anti seize on all of the M8 Hex bolts. Leave all bolts loose for now. There are two mounts that still need to be drilled, but we'll do those after all plates are mounted.

Step Three: Before mounting the 786M3U plate you need to drill out two existing holes. If you look at the front part of the plate you will see 4 slots. The holes in the frame for the outer two slots already have factory threads in them. The two inner holes do not. The holes need to be drilled to  $\frac{1}{4}$ " to allow a bolt to pass through. After drilling these two holes out, take the 700-123 bracket that has the double sided tape on it, peel back the tape line the bracket up with the holes and stick it to the frame. The tape is only there to hold the bracket in place to start the bolts. There is no way to get your hand in there to hold it.

Step Four : Take you 786M3U plate and set it into position. Start the three rear mounts with your cup washers and 6x25 hex bolts. These mounts will overlap the rear plate you already have installed. Now you can start all of the other hardware for the plate. Use your hardware placement guide to locate the correct bolts, clamps, and spacers. Leave all of these loose for now.

Step Five: Take your 786M2U plate and set it into position. Start all of the cup washers and 6x16 flange bolts first. Now you can start the rest of the hardware according to the placement guide. There are large holes located next to each clamp mounting hole. You can use these holes to put the clamp through the plate and around the frame tubing. Leave all of these bolts loose for now.

Step Six: Hang your 964M1U plate with the cup washer and flange bolt. Next start the outer "A" clamps on the front part of the plate. These two clamps are a little tight getting them into position, but if you do them first you should have plenty of room to get them mounted and started. Now you can start the rest of the hardware according to the placement guide. Leave everything loose for now.

Step Seven: Now you can go through and line up all of the plates for the best fit, either starting from the front going back or the back going to the front. Just tighten down the cup washers for now. Once you are happy with the fitment of the plates, you can tighten all of the rest of the mounting points.

Step Eight: OPTIONAL Now you are ready to drill out the two mounting holes on the 918RU plate. Take a ¼” transfer punch and mark the frame in the center of the slot. After punching the frame, take a ¼” drill bit and drill the two mounting holes out. After the holes are drilled out, you can take the cup washer, and the bolt and run them through the frame. Put a washer over the bolt, followed by the nut. You can reach through the side of the machine to start the nut. After both nuts are mounted, you can tighten them down. These mounting points are optional, and are not required.

Step Nine: If you are not mounting our aluminum rock sliders you still have 4 pieces of UHMW to mount to finish off the underside of the frame skids. Take your 775SU this will mount on the trailing arm mount. Line it up with the holes and start the M6 bolts, using the factory mounting points. Leave these loose for now. Next take your nut plate and set it in the frame channel by the rear mounting hole. Start your M8 bolt. Line up the skid and tighten all bolts. This is the same for the left and right hand side of the machine.

Step Ten: Now you can mount your 775FBU plate. You will use the clamp at the front, and the nut plate at the rear. Start both bolts, and then square up the plate for the best fitment, and tighten it down. This is the same for the left and the right.

Step Eleven: Now you are ready to mount your 938T plate. Start by hanging the plate by the rear mount. Now you can get the plate into position to mark out the front holes to be drilled. Take a cup washer and a paint pen, or sharpie and mark the very center of the cup washer as it's seated in the skid plate. Do this for both sides. Make sure that when you mark it isn't too low on the frame, or you won't be able to get the nut started. It is better to error on the side of caution and mark these holes a little on the high side. Once you have drilled out both holes you can run the bolts and cup washers through the plate, and secure the nuts to the back of the bolts. Fully tighten this plate down. If you run into any issues on your installation, please refer to our YouTube video, or feel free to call us, and we thank you for your purchase.

## Hardware list for 964U Polaris Turbo S 4 Seater

### 938TU

- 2) 833 Cup Washers
- 2) 6x20 Hex Bolts
- 2) M6 Nylock Nuts
- 1) 700-58 Nut Plate
- 1) 8x40 Hex Bolt
- 1) M8 HD Washer

### 964M1U

- 1) 833 Cup Washer
- 1) 6x16 Flange Bolt
- 1) B Clamp
- 6) 1 1/4 Clamps
- 7) 8x25 Hex Bolts
- 7) 700-124 Spacers
- 7) M8 HD Washers

786M2U

- 4) 1 1/4 Clamps
- 2) B Clamps
- 4) A Clamps
- 10) 8x25 Hex Bolts
- 10) 700-124 Spacers
- 10) M8 HD Washers
- 4) 833 Cup Washers
- 4) 6x25 Hex Bolts
- 1) 700-123 Bracket

918RU

- 8) 833 Cup Washers
- 5) 6x25 Hex Bolts
- 2) M6 Nylock Nuts
- 3) 6x16 Flange Bolts
- 4) B Clamps
- 2) 8x25 Hex Bolts
- 2) 8x35 Hex Bolts
- 2) 700-124 Spacers
- 2) 700-125 Spacers
- 4) M8 HD Washers

786M3U

- 2) B clamps
- 2) 700-37 Nut Plates
- 2) 700-09 Spacers
- 2) 8x25 Hex Bolts
- 2) 8x45 Hex Bolts
- 4) 700-124 Spacers
- 4) M8 HD Washers

775SU

- 4) 6x16 Hex Bolts
- 4) M6 HD Washers
- 2) 700-06 Nut Plates
- 2) 8x25 Hex Bolts
- 2) M8 HD Washers

775FBU

- 2) A Clamps
- 2) 700-37 Nut Plates
- 4) 8x25 Hex Bolts

4) M8 HD Washers 4) 700-124 Spacers

964U Polaris Turbo S 4 Sester Hardware Guide



