

# 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.**

We also have a video on our Youtube channel showing the installation procedure.

## Installation Instructions For Yamaha Wolverine X2 Part # 9700

Step One: These instructions serve both the aluminum, and the UHMW versions of our skid plates. To begin the installation of your belly skids, first you need to take the extruded U nuts, and get them set into the correct spots on the frame. For the most part, you will see a rectangle opening with a hole next to it, in the metal bottom plate on the machine. There are a few exceptions. The very front four mounts, only two holes have the rectangle opening. The two outer holes don't have the rectangle opening, but there is room to get the U nut in place. The other two exceptions are running down the center of the machine. The very top one, there is a crossmember welded there, so you can't get the u nut in place. The other is down by the center brake. There is a hole, but no rectangle cut out. You can still get the U nut in this mount though. As you are installing the U nuts, it's best to make sure you can get the bolt started. If you gave the plate in place, and the U nut isn't aligned with the hole, you won't be able to start the bolt, and it's much harder to center the U nut to the hole with the skid plate already mounted to the machine.

Step Two: now that you have all of your U nuts inserted into the machine, you can now bolt on your belly skid (970M) to the machine using the supplied bolts and cup washers. Leave all of the bolts loose for now.

Step Three: Now you can insert the four U nuts to mount the rear plate (970R) These install just like the U nuts for the belly plate. Once you get the U nuts installed, and verifying that you can start the bolts, you can now mount your rear plate using the supplied bolts and cup washers.

Step Four: Now you are ready to install the floorboard skids (970FB) First you need to mount all of the U nuts like you did for the previous plate. You will mount them to the frame everywhere there is the rectangle cut out next to the hole. The only exception is you won't mount the U nut on the inboard hole second to the rear. The reason for this is the fuel tank on the passenger side is too close to that hole, and the bolt would contact the fuel tank. Now you need to remove the two bolts up front, that secure the fender well plastic to the frame. You will be picking up these points to mount the floorboard skid. Once you have mounted all of the U nuts to the machine, and have verified you can start the bolts, you are ready to mount the floorboard skid. Mount it loosely by the inboard mount second from the front of the plate. Leave this loose so you can move the plate around. Now you can take the two aluminum spacers, your 6mm bolts and washers to mount to the fender well plastic. You should be able to slide the spacer into position, slide the bolt through the plate and the spacer and start the bolt. If it's too tight to get your hand in there you can use a pair of needle nose pliers to insert the spacer. Leave these bolts loose for now. Now you can install the rest of your bolts and cup washers. Leave these all loose for now. It is the same procedure to install the left and the right side.

Step Five: Now you are ready to square up all the plates for the best fit, and to fully tighten all of the bolts.

Step Six: To install the front bash plate (922T) you must first remove the stock plastic plate. After you have removed the front plastic plate, you can install your Ricochet plate using the cup washers and bolts, using the stock mounting points, the plastic skid was using. In the rear of the plate you will use the 8mm bolt, the 833-8 cup washer and the nut plate. You can now square up the plate for the best fit, and tighten all of the bolts.

Step Seven: To mount the front a arm skids, you need to have the front wheels of the machine off of the ground, so the front suspension is at full droop. Next you need to remove the factory plastic boot guard. Once you have the guard off, you can take you're a arm skid and set it into position. Start all of the bolts into the clamps, (use anti seize on these bolts) and snug them up, but don't fully tighten them yet. Now you need to check to make sure you have clearance around the a arm skid. Turn the steering wheel in one direction to full lock, and verify that the a arm skid isn't contacting anything. Now turn the steering wheel to the opposite lock, and verify the skid isn't contacting anything in that direction. If you do have an interference, adjust the position of the skid, and check again. Once you have established that you do have clearance, you can fully tighten down the skid. This is the same procedure for both sides.

Step Eight: Now you are ready to mount the rear a arm skids. It may be easier to remove the rear tires to do this, but it's not necessary. First you need to remove the stock plastic boot guard. Once you have that removed, you can set the skid plate into position, and run the long bolt through the outboard hole in the skid that has the spacer welded to it. Run the bolt through the existing hole in the a arm then place the washer over the bolt, followed by the nut. Leave this loose for now. Next you can set the clamps around the frame tubes and secure the plate with the bolts. Use anti seize on these bolts. Align the skid for the best fit and tighten all of the bolts. This is the same procedure for the left and right side of the machine. This completes you installation of you Ricochet skid plates.

## Hardware List for Part # 9700 Yamaha Wolverine X2

### 922T

- 6) 833 Cup Washers
- 6) 6x16 Flange Bolts
- 1) 833-8 Cup Washer
- 1) 8x20 Torx Bolt
- 1) 700-37

### 970FB

- 4) 6x35 Hex Bolts
- 4) M6 HD Washers
- 4) 700-94S Spacers
- 14) 833-8 Cup Washers
- 14) 8x20 Torx Bolts
- 14) M8 Extruded U Nuts

### 970M

- 17) 833-8 Cup Washers
- 17) 8x20 Torx Bolts
- 17) M8 Extruded U Nuts

### 970R

- 4) 833-8 Cup Washers
- 4) 8x20 Torx Bolts
- 4) M8 Extruded U Nuts

## 970AF

- 8) 1 1/8 Clamps
- 8) M8 Washers
- 8) 8x20 Torx Bolts

## 970AR

- 4) 1 3/8 Clamps
- 4) 8x20 Torx Bolts
- 2) 8x40 Torx Bolts
- 2) M8 Nylock Nuts
- 6) M8 Washers

