

# 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.**

## Installation Instructions For Kodiak 450 Part # 9661

Step One: It is easiest to install the skid plates with the machine stood up on its rear. Get a friend to help you stand the machine up. It is best to have a piece of cardboard for the rear of the machine to rest on, so you don't scratch anything. Secure the machine to something stable using a tie down strap. Ensure the machine is steady and can not fall over before proceeding with the installation.

Step Two: Remove all of the factory plastic skid plates.

Step Three: Take your 961M plate and set it into position. The front mounting points will pick up the factory threads. Leave these bolts loose for now. Next you can take your clamps and hang them around the frame and line them up with the mounting holes in the skid. Use anti seize on any of the bolts going into our clamps. The clamps feature an all metal locking nut, the anti seize will help the bolt go into the nut, and will help prevent any rusting of the hardware in the future. Leave these bolts loose for now.

Step Four: Now you can set your 961R plate into position and hang the clamps around the frame to line up with the mounting holes in the skid. Use anti seize on these bolts and leave them loose for now.

Step Five: Before you install your 969FB floor board skids, you need to remove the 8 bolts that secure the floor board to the frame. There are eight bolts total, four on each side. Refer to your hardware placement guide for the bolt length placement. The longer bolts go inboard and the shorter bolts go outboard. Set your floorboard skid into position and run the bolts through the factory threads that you removed the stock bolts from. The bolts for the skids will run through the frame the opposite side the factory bolts were run. The head of the bolt will be facing towards the ground. You will then install a nut on the top side of the floorboard where your feet rest. Leave these loose for now, it is the same procedure for the left and right side of the machine.

Step Six: you are now ready to fully tighten your skid plates. Square the skids up to the frame, and adjust for the best fit, and tighten all of the hardware, once you have the main belly skid tight, you can adjust and tighten your floorboard skids. Once you have the floor boards tight you can tighten the nut on the top side of the floor board.

Step Seven: To install your front A arm skids, set the skid in place and hang and start the clamps and bolts. Use anti seize on these bolts, and leave them loose for now. Tighten one bolt enough the skid will not move. Now you need to check the clearance of the skid. Turn the handlebar all the way to one side and verify that you have no contact with anything to the skid, front and back. Now turn the handlebar fully to the other side and verify you have clearance to the skid. Once you have established you have clearance around the skid in both directions you can fully tighten the a arm skid down. If you do have contact or interference, loosen the skid, to adjust

accordingly. Once you have established clearance you can fully tighten the a arm skid down. It is the same procedure for both the left and right side of the machine.

Step Eight: To install the rear a arm skid is pretty much the same procedure as the front, you just don't have the handlebars to turn. Set the plate into position hang the clamps and start the bolts. Use anti seize on these bolts. Check the plate for clearance and fully tighten the bolts. It is the same procedure for both sides of the machine. This completes your installation of your Ricochet skid plate set.

## Hardware Packing List For P/N 9661

961M

- 2) M6x25 Hex Bolt
- 2) 6mm HD Washer
- 4) 1 1/8 Clamp
- 4) M8x20 Button Head
- 4) 8mm Flat Washer

961 R

- 4) 1 1/8 Clamp
- 4) M8x20 Button Head
- 4) 8mm Flat Washer

961 AF

- 8) 1" Clamp
- 8) M8x20 Button Head
- 8) 8mm Flat Washer

961 FB

- 4) M6x45 Button Head
- 4) M6x35 Button Head
- 16) 6mm HD Washer
- 8) 6mm Nyloc Nut

961 AR

- 2) 1 1/8 Clamp
- 2) M8x20 Button Head
- 2) 8mm Flat Washer
- 4) M8x50 Button Head
- 4) 8mm Nyloc Nut
- 4) 8mm HD Washer
- 4) 8mm Flat Washer

## Hardware Placement Guide For P/N 9661

