

# 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 Part# 9744 Polaris Ranger High Lifter

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

Step Two: The belly skids will use the mounting holes that the factory skid plates used. Some of these holes are not threaded from the factory. You will need to take the supplied M6 tap and cut the threads in the spots that aren't threaded. You don't need to drill any holes, you just need to cut the thread.

Step Three: To mount your 767M1 plate, first hang the two 838 clamps around the frame tubes running down the center of the machine. Next you can mount the plate using the supplied cup washers and bolts. Leave these all loose for now, so you can adjust the clamps you've hung to line them up with the mounting holes. Start the bolts for the clamps. Use anti seize on these bolts. Leave everything loose for now.

Step Four: To mount the 767M3 plate, make sure you have chased any holes that don't have a thread. Now you can hang the plate loosely by the cup washers and bolts. Leave these loose for now. Next you can start the 8x25 nuts and bolts at the rear of the plate. Leave these loose for now as well.

Step Five: To mount the 767R plate, first make sure that you have a thread cut for all of the cup washer mounting holes. Now you can start the cup washers and bolts. Leave these loose for now. Now you can start the remaining bolts and nut plates. Use anti seize on these bolts and leave them loose for now.

Step Six: At this point you can now align and square up all of the plates for the best fit. After you have done that you can tighten all of the hardware.

Step Seven: To mount the 932 plate, set the plate into position, bolts, nuts and washers. Leave these all loose for now. Square the plate up for the best fit and tighten all of the hardware.

Step Eight: Remove the three button head Torx bolts underneath the rocker panel on the machine. Save these bolts, they will be reused. Take your two 700-06 Nut plates, and set them in the channel of the frame that is welded to the main frame and out to the edge. Line the hole in the nut plate up with the hole in the frame. Now you can get your floorboard skid into position, using the stock bolts you removed and the cup washers provided, mount the floorboard skid to the machine. Leave these bolts loose for now. Take your 8x35 Torx bolts, and thread them into the nut plates you installed in the frame channel. There is a slot in the skid plate, that you can put your finger through to hold the nut plates down, while you are catching the thread. Leave these bolts loose for now. Take your 8x25 bolt, and insert it through the hole in the rear of the skid plate, and through the hole in the frame. Slide a washer over the bolt, followed by your M8 nylock nut. Get the plate adjusted to the machine for the best fit, and tighten the two Torx bolts going into the nut plates. Tighten the bolt with the nut at the rear of the plate. And finally tighten down the three stock bolts with the cup washers. Use extreme caution when tightening the stock bolts, as the frame threads can be easily damaged. If you do damage the frame threads, you can use a ¼-20 Self tapping bolt, to secure the plate.

Step Nine: To mount the front a Arm skids, you first need to have the front wheel of the machine off of the ground, and the suspension fully unloaded. Now you can take the a arm skid and set it into position. Hang the clamps around the a arm tubing and start all of the bolts. Use anti seize on these and leave them all loose for now. Next you need to check for clearance. Turn the steering wheel full lock in one direction, and verify there is no interference from the a arm skid. Now turn the wheel full lock in the other direction, and verify there is no interference with the a arm skid. Once you have established that you do have clearance, you can fully tighten the a arm skid down. This is the same procedure for both the left and right side of the machine.

Step Ten: to mount the rear a arm skids, it may be easier to remove the rear wheels. It's a little tight to access everything with the wheels in place. Take your plate and set it into position. The outboard mounting hole, (the one without the spacer welded on) will go towards the front of the machine. Take your long bolt, and run it through the hole in the a arm skid without the spacer, and then through the hole in the a arm itself. Secure with the supplied nut. Now you can mount the three clamps around the a arm and start those bolts. Use anti seize and leave these all loose for now. Adjust the plate for the best fit, and then you can tighten the bolts. It is the same procedure for both the left and right side of the machine. This completes your installation of your Ricochet skid plates.

## Hardware List for Part# 9744

### 932T

- 6) 8x25 Torx Bolts
- 12) M8 Washers
- 6) M8 Nylock Nuts

### 767M3

- 7) 833 Cup Washers
- 7) 6x16 Flange Bolts
- 2) 8x25 Torx Bolts
- 4) M8 Washers
- 2) M8 Nylock Nuts

### 932FB

- 6) 833 Cup Washers
- 6) 8x25 Torx Bolts
- 8) M8 Washers
- 2) M8 Nylock Nuts
- 4) 700-06 Nut Plates

### 767M1

- 6) 833 Cup Washers
- 6) 6x16 Flange Bolts
- 2) 838 Clamps
- 2) M8 Washers
- 2) 8x25 Torx Bolts
- 1) M6 Tap and Tap Handle

### 767R

- 2) 833 Cup Washers
- 2) 6x16 Flange Bolts
- 4) 700-06 Nut Plates
- 4) 8x25 Torx Bolts
- 4) M8 Washers

### 974AF

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

### 974AR

- 2) 8x60 Torx Bolts
- 6) 1 1/4 Clamps
- 10) M8 Washers
- 6) 8x25 Torx Bolts
- 2) M8 Nylock Nuts

