

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 with any questions or concerns.

Installation Instructions for Ricochet Aluminum Skids For Viking VI

Part # 9733

Step One: Start your installation by removing all of the factory plastic guards.

Step Two: Now you can take your 785T plate and mount it to the frame using the supplied bolts to the factory mounts first. Leave these loose for now. Next you can secure the rest of the hardware for the plate according to the hardware guide. Use anti seize on all of these bolts. Leave all of these bolts loose for now

Step Two: For the 973M1 plate, with the exception of the front three mounts on this plate, you will need to drill holes to install nut inserts using a 25/64 or a 10mm drill bit. The size of this bit is very important. Do not use a drill bit larger than 25/64 or 10mm. Mount the 973M1 plate to the machine, tucking the front edge of this plate under the 785T plate you just installed. You will probably need to use a C clamp or two, to secure the rear of the plate to the machine to facilitate drilling the holes for the nut inserts. Referring to your hardware guide, secure the front three mounts of the 973M1 plate to the machine. Get the plate squared up to the machine, you can now tighten the front three mounts, and also the hardware for the 785T plate fully. This will lock the 973M1 plate into position to help get the holes drilled in the right place.

Step Three: Now you can begin marking out the location of your drill points. The best way to center the drill point to the mounting holes, is taking one of your cup washers and a paint or marking pen, to find the approximate center of each of the mounting holes. The cup washers can float a little in the mounting hole, so after marking the center of the hole, visually confirm it's close to the center. If it is not, erase your mark, and try again. Once you have all of your holes marked out, you will want to take a center punch, and punch all of your hole marks. This will minimize the chance of your drill bit wandering. I also like to do the first drilling with a smaller drill bit, to drill what is known as a pilot hole. The smaller bit will resist wandering, and it will make drilling the larger hole easier. I typically use about a 3/16 drill bit for the pilot hole. After drilling your pilot holes, you can now drill the larger hole. Do not use a drill bit larger than 25/64 or 10mm. After all of the holes are drilled to the correct size, you can now install the nut inserts using the installation tool. You should be able to install the nut inserts with the plate still clamped to the machine. Once the nut inserts are installed you can install the cup washers and bolt the plate down. You can fully tighten these mounts at this time.

Step Four: To mount your 973M2 plate, it's going to be pretty much the same procedure as mounting your 973M1 plate. Square and clamp the plate to the machine using C clamps. After you are certain the plate is in the position it needs to be, you can go and mark, punch, pilot drill, and final drill all of the mounting holes. After you have drilled the holes you can install the nut inserts just like you did for the 973M1 plate. Once all of the nut inserts are installed into the frame of the machine, you can tighten the plate down with the cup washers and bolts.

Step Five: To mount your 973R plate, first secure the two rear mounting points using the hardware shown in the hardware guide. Square the plate up for the best fit, and use a C clamp on the front of the plate to secure it to the machine. Now you can mark and drill the remaining mounting points in the same fashion as you did the first two plates. Once your nut inserts are installed, you can secure the plate to the machine using the supplied hardware.

Step Six: Mounting the floor boards is a little easier than the other plates. There are holes that are almost the right size in the frame on the floor boards. Take your 973FB1 and hold it up into position to see what holes you will need to put the inserts in. Once you have figured out which holes will need inserts, run your 25/64 or 10mm drill through these holes to make them the right size. Most are already pretty good, but I usually find a couple are a little small. Now you can install the nut inserts in these holes. Now you need to remove the two bolts that secure the front plastic of the fender well to the machine. You will be picking up these mounts as well on the 973FB1. To mount the 973FB1 plate, loosely start a couple of the cup washers and bolts. Now take your longer M6 bolts and washers, and start the front mounting holes in the wheel well. Now you can loosely start the rest of the cup washers and bolts.

Step Seven: To mount the rear floorboard plate (973FB2) it will be the same procedure as the front floorboard plate. Set the plate into position, to see which of the holes in the frame you will use to install the nut inserts. Once you have those figured out, run your 25/64 or 10mm drill through the hole. Now you can install the nut inserts. Once the nut inserts are installed you can mount the rear floorboard to the machine. Square up both the front and rear floor board skids for the best fit and fully tighten them down with the cup washers and bolts. As you have probably noticed there are still some mounting points on the floorboard skids, that don't have a factory hole. For these mounts, you will need to mark, center punch, pilot drill, and drill just like you did for the main belly skids. After these holes are drilled out you can install the nut inserts and the rest of the hardware, and fully tighten everything down. It is the same procedure to install both the left and right side floorboard skids.

Step Eight: To install the front a arm skids (785AF) first remove the factory plastic guard. Now you can take the a arm skid and set it into position. Hang the clamps around the a arm in the location noted on your hardware guide and loosely start the bolts. Use anti seize on these bolts. Once you have all of the clamps loosely started, you need to check for clearance on the a arm. With the front wheel off of the ground, and no load on the suspension, turn the wheel left to full lock, and verify there is no contact with the a arm skid. If there is, move the a arm skid in accordingly. Now turn the wheel full lock to the right, and verify there is still no contact to the skid. Once you have established that you do have clearance, you can fully tighten the a arm skid. This is the same procedure for both the left and right side a arm skids.

Step Nine: To install the rear a arm skids, first remove the factory plastic guard. Now you can set the skid into position and start the hardware according to the hardware guide. Check to make sure you have clearance around the skid and fully tighten the hardware. It is the same procedure for the left and right side of the machine. This completes your skid plate installation.

Hardware List For Yamaha Viking VI Part # 9733F

785T

- 2) 6x50 Hex Bolts
- 2) M6 Flat Washers
- 2) M6 Lock Washers
- 2) 700-37 Nut Plates
- 1) 700-92 bar Clamp
- 4) 8x35 Torx Bolts
- 4) M8 Washers

937M2

- 9) 833 Cup Washers
- 9) 6x16 Flange Bolts
- 9) M6 Nut Inserts

937FB1

- 4) 6x35 Hex Bolts
- 4) M6 Washers
- 4) M6 Lock Washers
- 14) 833 cup Washers
- 14) 6x16 Flange Bolts
- 14) M6 Nut Inserts

937M1

- 1) 8x25 Torx Bolt
- 6) M8 Washers
- 3) M8 Nylock Nuts
- 2) 8x35 Torx Bolts
- 2) FJ-5 Spacers
- 11) 833 Cup Washers
- 11) 6x16 Flange Bolts
- 11) M6 Nut Inserts

937R

- 4) 833 Cup Washers
- 4) 6x16 Flange Bolts
- 4) M6 Nut Inserts
- 2) 700-06 Nut Plates
- 2) 8x30 Torx Bolts
- 2) M8 Washers

937FB2

- 12) 833 Cup Washers
- 12) 6x16 Flange Bolts
- 12) M6 Nut Inserts

785AF

- 6) 1" Clamps
- 2) 1 1/4" Clamps
- 8) 8x20 Torx Bolts
- 8) M8 Washers

TOOL

- 1) M6 Nut Insert Tool

Hanson Rivet Part# RT-L845-M06

785AR

- 2) 6x25 Button Head Bolts
- 2) M6 Washers
- 2) M6 Lock Washers
- 6) 1 3/8" Clamps
- 6) 8x20 Torx Bolts
- 6) M8 Washers

