



# 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.**

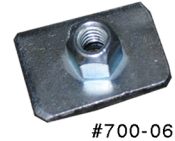
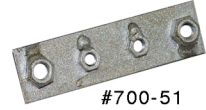
# Hardware List for P/N 7499X & 7499XM

## Bash Plate (749T) & Front Frame Skid Plate (749B):

- 2) 8 x 45mm Button Head Bolts
- 2) 8 x 40mm Button Head Bolts
- 2) 8 x 20mm Button Head Bolts
- 2) #836 Square Clamp (marked with a "6")
- 4) 8mm Nylock Nuts
- 4) 8mm HD washers (larger ones)
- 6) 8mm Flat washers

## Front A-Arm Guards (749AFA & B):

- 8) 1" Clamps (marked with a "1")
- 8) 8 x 20mm Button Head Bolts
- 8) 8mm Flat Washers



## Center Skid Plate (749M):

- 2) #700-50 Mounting Bracket
- 2) #700-51 Mounting Bracket
- 4) 6 x 20mm Flat Head Bolts
- 4) 8 x 25mm Button Head Bolts
- 4) 6 x 60mm Hex Bolts
- 4) 8mm Flat Washers
- 4) 6mm Nylock Nuts
- 8) 6mm Flat Washers

## Rear A-Arm Guards (749ARA & B):

- 2) 1 1/2" Clamps (marked with an "A")
- 2) 8 x 20mm Button Head Bolts
- 4) 6 x 20mm Button Head Bolts
- 4) 6mm Nylock Nuts
- 2) 8mm Flat Washers
- 4) 6mm Flat Washers

## Rear Skid Plate (749R):

- 2 or 4) #836 Clamps (marked with a "6") (Max model uses 4 clamps, Std model uses 2)
- 1) #700-06 Nut Plate
- 2) 8 x 20mm Button Head Bolts
- 1) 8 x 40mm Button Head Bolt
- 3) 8mm Flat Washers

## Mounting Instructions

1. For easiest installation it is best to stand your ATV up on end. THE ATV IS VERY UNSTABLE IN THIS POSITION SO BE SURE TO SECURE IT PROPERLY.
2. Remove the main factory plastic skid plate and the front plastic a-arm guards, also remove the two outermost bolts in each footwell. The main factory plastic skid can be difficult to remove because it hangs up underneath the bumper. It may take help from an additional person to pull it free.
3. Locate each mounting bracket which has a nut welded onto it. Because of the locking feature of these nuts it is highly recommended that you use a small drop of oil or anti-seize compound on the threads of these nuts.
4. Begin by installing the two mounting brackets (#700-50 & #700-51) on each of the horizontal center cross members. Take the steel plate (#700-51) and hold it in place behind the crossmember as shown in Fig. 1. With this plate lined up behind the 4 holes place the aluminum plate (#700-50) on top and fasten it to the steel plate using the 6x20mm flat head bolts as shown in Fig. 2.
5. You can now install your main center skid plate (p/n 749M) using the hardware shown on your hardware placement guide. Thread the 6x60mm hex bolts through the outermost footwell mounts with the bolt head on the bottom side and the nut on the top side
6. Now you may install the rear skid plate (p/n 749R), and your front frame skid plate (p/n 749B) using the hardware shown on your hardware placement guide. Install each bolt into it's appropriate mounting bracket finger tight at first. If you are installing the front bash plate leave the two front mounting points on p/n 749B open for now. Once all the bolts are in place tighten them down while making sure the plates remains butted up against the center plate.
7. If you're installing the front bash plate (p/n 749T) you will need to drill through the plastic to access the front two mounting points. First install the bash plate overlapping the forward frame plate using the hardware shown on your hardware placement guide. Make sure the bolts are centered in the mounting slot. Now match drill through the center of the forward mounting slots on the bash plate with a 3/8" bit as shown in Fig. 3. Now with access to the mounting points behind plastic bumper finish installing your bash plate with the hardware shown on your placement guide.
8. Now if you are installing front & rear a-arm guards you may do that now, using the correct clamps in the positions shown on your hardware placement guide. Again install each bolt finger tight at first and tighten down while making sure the the plate stays square on a-arm frame. Turn the front tires to full lock in each direction to make sure there are no interferences . If there is, loosen the bolts and adjust the plates position accordingly.
9. Thanks for your purchase of this Ricochet Skid Plate System for questions or comments please contact us at 1-866-273-1197.



Fig. 1

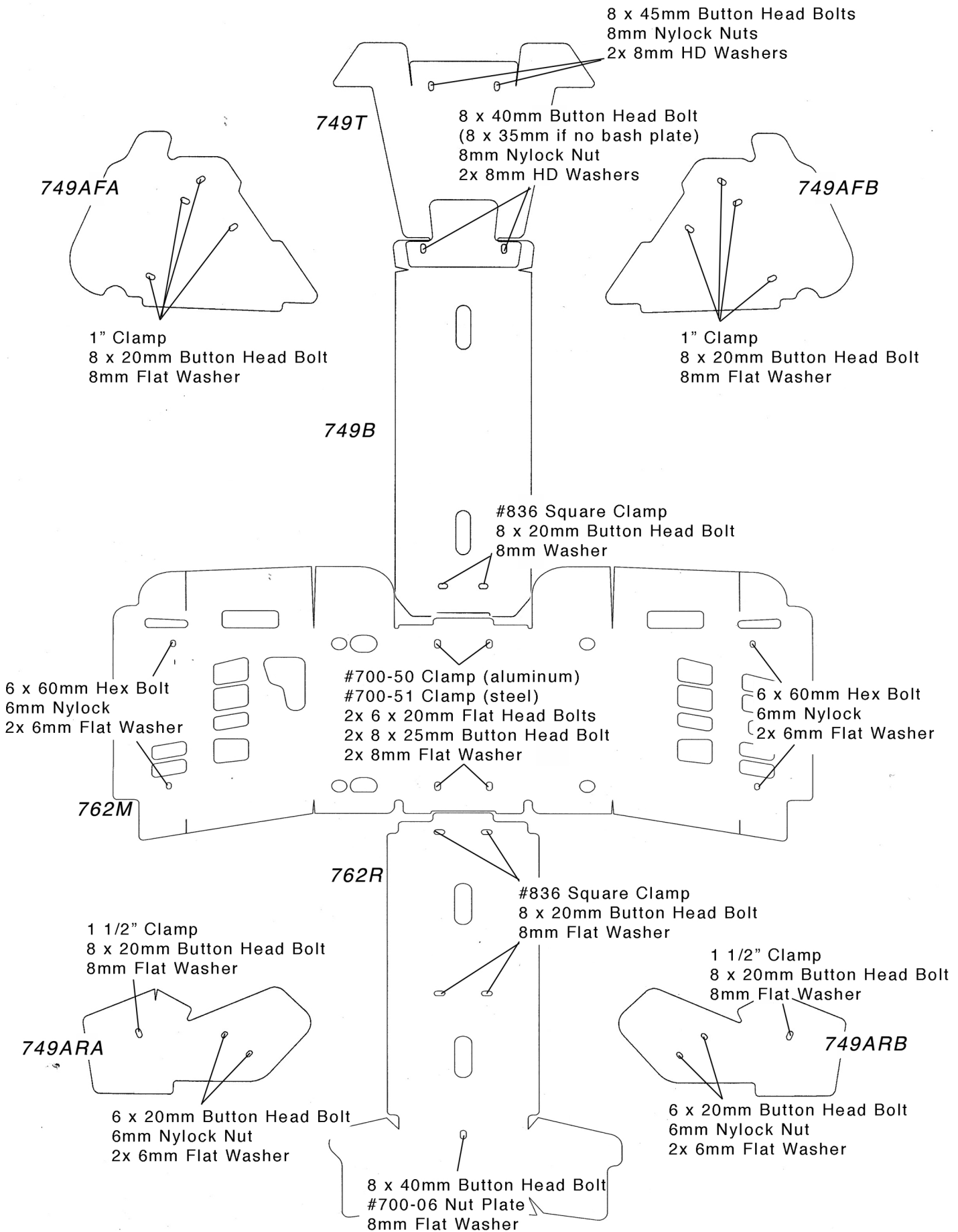


Fig. 2



Fig. 3

# Hardware Placement Guide for P/N 7499XM



8 x 45mm Button Head Bolts  
8mm Nylock Nuts  
2x 8mm HD Washers

749T

8 x 40mm Button Head Bolt  
(8 x 35mm if no bash plate)  
8mm Nylock Nut  
2x 8mm HD Washers

749AFA

1" Clamp  
8 x 20mm Button Head Bolt  
8mm Flat Washer

749AFB

1" Clamp  
8 x 20mm Button Head Bolt  
8mm Flat Washer

749B

#836 Square Clamp  
8 x 20mm Button Head Bolt  
8mm Washer

6 x 60mm Hex Bolt  
6mm Nylock  
2x 6mm Flat Washer

#700-50 Clamp (aluminum)  
#700-51 Clamp (steel)  
2x 6 x 20mm Flat Head Bolts  
2x 8 x 25mm Button Head Bolt  
2x 8mm Flat Washer

6 x 60mm Hex Bolt  
6mm Nylock  
2x 6mm Flat Washer

762M

762R

#836 Square Clamp  
8 x 20mm Button Head Bolt  
8mm Flat Washer

1 1/2" Clamp  
8 x 20mm Button Head Bolt  
8mm Flat Washer

1 1/2" Clamp  
8 x 20mm Button Head Bolt  
8mm Flat Washer

749ARA

6 x 20mm Button Head Bolt  
6mm Nylock Nut  
2x 6mm Flat Washer

749ARB

6 x 20mm Button Head Bolt  
6mm Nylock Nut  
2x 6mm Flat Washer

8 x 40mm Button Head Bolt  
#700-06 Nut Plate  
8mm Flat Washer