



# 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.**

## **Polaris XP 550/850 '09-'10 & Sportsman 550/850 Touring Skid Plate Installation Guide (P/N's 727, 7272, 7272F, 7273, 7273F, 739, 7274, 7274F)**

1. For the simplest installation begin by lifting your ATV upright. **Be sure to take proper precautions when doing this by securing your machine in its upright position with rope.** Although it is possible to install this set by yourself, you will find it much easier to have an extra set of hands to help hold things in place while you install hardware.
2. Before installing your new skids remove all factory plastic guards.
3. To ensure access to clamp positions make sure you install the plates in the correct order as instructed below.
4. If you have A-Arm Guards Begin by installing the rear ones first. To get the guard to clear the frame and into place, angle the guard deep into the wheel well first, then set the guard against the a-arm and then slide it into its proper position. Refer to the Hardware Placement guide to find the correct hardware for installation. Because of the locking mechanism on the nuts there is no need to over torque the button head bolts.
5. Next install the rear frame skid using the 1 1/4" Clamps wrapped around the frame with the 8 x 20mm Button Head Bolts. Note on the hardware placement guide where clamps will need to be hung on the frame before placing the skid plate into place. At this time leave all bolts finger tight so that the position of the plate can be adjusted.
6. Now install the front frame plate. Refer to the hardware placement guide for correct hardware and positions. Once again leave everything finger tight at this time. When attaching the plastic skirt to the plate with the 6mm hex bolt it is best to use the nut on the outside while feeding the bolt through the inside. Once all hardware is fastened you may begin tightening each bolt while making sure the front and rear plates remain firmly butted against each other. Also at this time you may want to check the position of the removable oil filter cover plate. Put the cover plate into place and mark where the holes will need to be drilled. Neither hole should be more than about 3/8" from the edge of the oil filter opening (see fig. 2). If one hole is too far in you will need to adjust the position of your plates to make sure the nut clips fit properly.
7. If you have floorboard plates you should install these now. Slide a #700-06 nut plate into each floorboard bracing bar so the nut shows through the outermost slot on the bar. On the left floorboard with the nut plates in place take a 1 1/4" Clamp and place it on the frame in an approximate position to where the inner slot on the plate should line up when installed. As shown in Fig. 1 use a screwdriver to hold it in place through the oil filter access hole while you place the plate into position and thread a button head bolt into the clamp. Now fasten the button head bolts to each of the nut plates. You can hold the front nut plates in place through the drainage slots on the top side of the floorboard and you may need to use a screwdriver to hold the rear nut plate in place while you get a bolt started. For Touring models you will use the 8 x 20mm Button Head bolts with 8mm nylock nuts in the two rear floorboard mounts instead of the nut plate. There is no need to use a wrench on these nut plates because they will brace themselves inside the bracing bar. On the right side install the clamp using a similar technique by holding the clamp in place through the drainage slot on the plate itself as you thread the button head bolt in. Again it is best to leave everything finger tight at first. Tighten each bolt while making sure it fits snugly against the center plates.
8. Now if you have front A-Arm Guards you can install these using the hardware listed on your hardware placement guide. If your ATV has a gusset bracing each front a-arm then you should use the 8 x 50mm Button Head Bolts with nylock nuts to install. If there is no gusset you should use the 1" clamps with the 8 x 20mm Button Head Bolts.
9. Finally if you choose to install your oil filter cover plate you will need a drill with a 9/32" bit. Hold the cover plate into place and locate the two mounting point positions. Now drill out holes in these positions through **both** layers of the steel plate as shown in fig. 2. Now slide the 6mm nut clips into place in these positions. Using the 6 x 20mm Flathead bolts put the cover plate in place and begin tightening the bolts into the nut clips. At first the plate may hang up on a small flange on the nut clip, but continue tightening and they will compress until the plate sits down flat.
10. Congratulations, you've completed your ricochet skid plate installation. Give us a call 1-866-273-1197 for any other questions or to get additional hardware.

## Polaris XP 550/850 2009 (P/N 7272F) Skid Plate Hardware List

### *Frame Skids (p/n's 727T, 727M)*

- 10) 1 1/4" Clamps
  - 1) #700-06 Nut Plate
- 10) 8 x 20mm Button Head Bolts
  - 1) 8 x 25mm Button Head Bolt
  - 1) 6 x 20mm Hex Bolt
- 11) 8mm std. Flat Washers
  - 2) 6mm H/D Flat Washers
  - 1) 6mm Nylock Nut
  - 2) 6 x 16mm Flat Head Bolts
  - 2) 6mm Nut Clips

### *Floorboard Plates (p/n's 727FBA, 727FBB)*

- 4) #700-06 Nut Plates
- 2) 1 1/4" Clamps
- 6) 8 x 20mm Button Head Bolts
- 6) 8mm std. Flat Washers

### *Front A-Arm Guards (p/n's 727AFA, 727AFB)*

- 4) 1" Clamps
- 4) 8 x 20mm Button Head Bolts
- 4) 8 x 50mm Button Head Bolts
- 2) 6 x 20mm Button Head Bolts
- 4) std. 8mm Washers
- 8) 8mm H/D Washers
- 2) 6mm H/D Washers
- 2) 1/4" Lock Washers
- 4) 8mm Nylock Nuts

### *Rear A-Arm Guards (p/n's 727ARA, 727ARB)*

- 4) 1" Clamps
- 4) 8 x 20mm Button Head Bolts
- 4) 8 x 50mm Button Head Bolts
- 8) 8mm H/D Washers
- 4) 8mm std. Washers
- 4) 8mm Nylock Nuts

# Hardware Placement Guide (p/n 7272F)

\*refer to installation guide for which mounting points to use

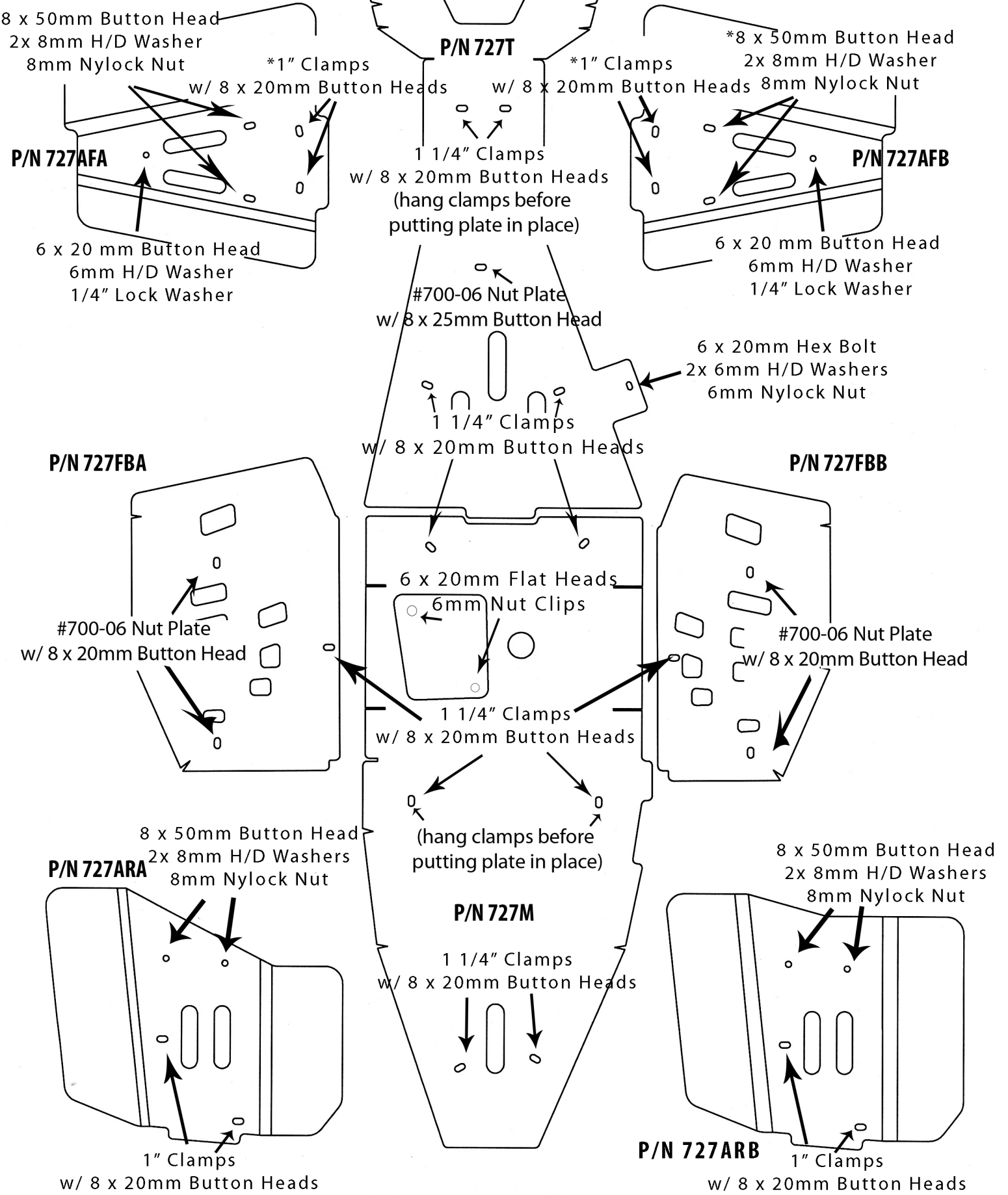


Fig. 1



Fig. 2

