



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.

Can-Am Commander Skid Plate Mounting Instructions (p.n 7410)

Frame Skid Plates:

	#833 Cupped Washers Qty: 26		5/16" SAE Flat Washers Qty: 18
	#833-8 Cupped Washers (Larger Hole) Qty: 6		8mm Nylock Nuts Qty: 6
	6 x 25mm Hex Bolts Qty: 26		8 x 20mm Hex Bolts Qty: 4
	1/4" Lock Washers Qty: 26		8 x 90mm Hex Bolts Qty: 2
	#700-41 Aluminum Spacer Qty: 24	UHMW Layer (optional) #833 Cupped Washers Qty: 36 6mm Flange Bolts Qty: 33 6 x 35mm Hex Bolts Qty: 3 6mm HD Flat Washers Qty: 3	

A-Arm Guards:

	1" Clamps Qty: 6		8 x 20mm Button Head Bolts Qty: 6		5/16" SAE Flat Washers Qty: 6
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Lateral Skids:

	#833 Cupped Washer Qty: 4		1/4" Lock Washer Qty: 2		6 x 30mm Buttonhead Bolts Qty: 2
	1/4" x 3/4" Self-Tapping Hex Bolt Qty: 2		8 x 25mm Buttonhead Bolt Qty: 2		5/16" Flat Washer Qty: 4
					8mm Nylock Nut Qty: 2

1. Begin by removing all of the stock plastic skid plates.
2. Before installing your front bash plate you will need to drill one hole in the position shown in fig. 1. Using an 11/32" (or 3/8") bit match drill through the outermost existing hole opening up a hole on the top side of the frame so that the 8 x 90mm hex bolt can pass completely through and an 8mm nylock nut can be fastened. The center mounting point should already have an access hole on the top side. Now install your front bash plate (p/n 741t) using the hardware shown on the hardware placement guide.
3. The four other frame plates can now be installed in any order using the hardware shown on your hardware placement guide. To fill the gap between the mounting point and the skid plate you will need to use the #700-41 aluminum spacers on each point which uses a 6 x 25mm bolt as shown in fig 2. The four outermost mounting points which use the 8 x 20mm bolts will not require a spacer. These points will fasten using an 8mm nylock nut and washer on the top side. It is best to leave all of these bolts loose until you have installed all four of these plates as to allow for some adjustability in their positions. Once every bolt has been started you may begin tightening each bolt while making sure each plates position is properly aligned as to interlock with each adjacent plate. It is important not to over torque the bolts because they will strip fairly easily
4. Because of the variation in weld heights which the skid plates lay across, you may notice that some of the mounting points either suck the plate too low with respect to its adjacent plate leaving an exposed hard edge or in other cases the cupped washer may not seat down firmly against the plate. In the former case you may use some of the extra 5/16" flat washers to increase the height of the spacer which will help create smoother transitions between the plates. In the latter case the spacer may need to be ground or filed down as to allow the cupped washer to set firmly against the plate.
5. If you have purchased the lateral skids you may install them now to protect the plastic beneath the floor boards. First hold the skid into place to identify the three mounting points. Remove the button head bolt and the rivet where the two outermost mounting points are located. This rivet will need to be drilled out using an 1/8" bit. Now you may mount your lateral skid using the hardware shown on your hardware placement guide. The self tapping bolts can be a little tricky to get started, use a little lubricant on the bolt and with a ratchet apply a decent amount of pressure while slowly threading the bolt into place, make sure you keep the bolt going as stright in as possible and don't over torque it because it can strip quite easily.

UHMW Layer Mounting Instructions

Refer to your hardware placement guide to locate the 3 spots where the UHMW and aluminum use common monunting points.

You have been provided with a longer 6 x 35mm Hex Bolt to be used at these points threaded through both the UHMW and aluminum as well as the required spacer.

Install UHMW using the 6mm flange bolts and cupped washers to attach UHMW layer directly to aluminum skid plate, except in the three places mentioned above

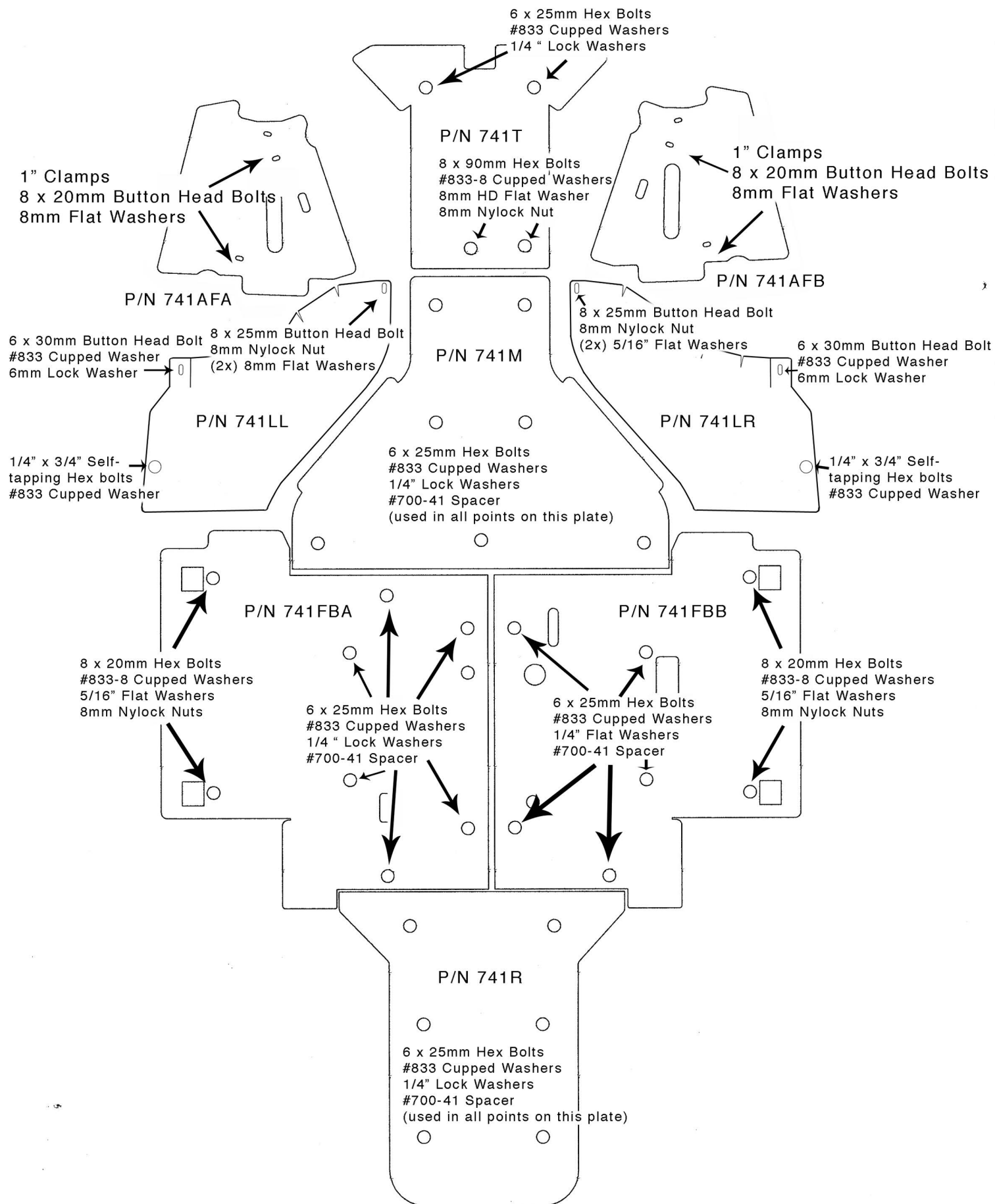
Fig. 1



Fig. 2



Hardware Placement Guide for Can-Am Commander (P/N 7410)





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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.

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Hardware List & Mounting Instructions for P/N 9044

Main Skid Plates: (741T, 904M1, 904M2, 904R)

- 27) #833 Gold Cupped Washers
- 2) #833-8 Gold Cupped Washers
- 27) 6 x 25mm Button Head Bolts
- 2) 8 x 90mm Button Head Bolts
- 2) 8mm Flat Washers
- 2) 8mm HD Flat Washers (larger ones)
- 27) 1/4" Lock Washers
- 27) #700-41 Spacers
- 2) 8mm Nylock Nuts

Rock Sliders: (904FBA, 904FBB)

- 4) #833 Gold Cupped Washers
- 8) #833-8 Gold Cupped Washers
- 4) 6 x 25mm Button Head Bolts
- 8) 8 x 25mm Button Head Bolts
- 4) 1/4" Lock Washers
- 4) #700-92 Nut Plates

A-Arm Guards: (741AA, 741AB)

- 6) 1" Clamps
- 6) 8 x 20mm Button Head Bolts
- 6) 8mm Flat Washers

Optional UHMW Layer: (904P1, 904P2)

- 36) #833 Cupped Washers
- 32) 6 x 16mm Flange Bolts
- 4) 6 x 25mm Button Head Bolts
- 4) 1/4" Lock Washers
- 4) #700-26 Spacers



Required Tools

Hand drill with 11/32" or 3/8" bit
Chisel & Vice Grips (or similar tool)
T-30 & T-40 TORX bits (sockets recommended)
Metric socket set

Mounting Instructions

1. Begin by removing all plastic factory skid plates. The factory skids on each side and on the a-arms are riveted on. These can be removed by drilling through the head, then with a chisel and hammer pop the heads of each rivet off, the remaining stub will then need to be punched free. The rivets on the A-Arm guard may spin as you try to drill them out, using some vice grips grab them from the back side as you drill as shown in Fig. 1.
2. Before beginning installation we recommend preparing all your hardware. Using your hardware placement guide separate out all your hardware corresponding to where it installs on your set. Any points using the cupped washers should be prepared as shown in Fig. 2. and any bolts that thread into a welded on locking nut should have a drop of anti-seize or oil applied to the threads as these are pinch style locking nuts.
3. First mount the front bash plate (741T) using the 3 available mounting points, the top two being per-threaded holes and the left rear one being an existing hole which you can thread the M8x50 bolt through and secure on the back side with a larger washer and nylock nut. After mounting securing those three points using an 11/32" bit (3/8" will work) match drill through the mounting point on the skid plate opening up a hole on both sides of the steel plate behind (Fig. 3). Now secure with washer and nylock nut as before.
3. Now you may begin mounting your center skids using your pre-assembled cupped washer and spacer assemblies. Hold the skid plate into place and begin threading in each bolt, leaving them loose at this time so that the skid plate's position can still "float" slightly. Continue this process until all hardware is loosely installed on all three center skids (904M1, 904M2, 904R). If you have purchased the UHMW layer note on your hardware placement guide the 4 spots that are common mounts with the UHMW, do not install bolts in these places at this time.
4. Once all hardware is in place you may begin tightening everything down making sure each plate butts securely against the one adjacent to it.
5. Now before installing your rock sliders you will need to feed one of the #700-92 nut plates into each bracing bar as shown in fig. 4.
7. Now remove the existing two bolt on the front edge behind the front tire and install your rock slider here first using the hardware shown on your placement guide.
8. Now swing the guard into place and utilize the access holes in the skid plate to position the #700-92 nut plates so that they line up to the mounting points in the plate. Thread in two M8x25 bolts and larger holed cupped washers leaving these loose as well for now. Repeat this process on the other three nut plate positions. Will all hardware installed you may now tighten everything down while maintaining a tight fit against the outer plastic beneath the door.
9. Now if you have purchased the optional UHMW layer you may install that now securing it to the inserts in the aluminum plates using the M6x16 flange bolts and cupped washers. Note that there are 4 places where the UHMW will use a common mount as the aluminum in these spots use the larger spacer and thread the bolt through both the UHMW and aluminum and secure directly to the frame.
10. Finally if you have ordered a-arm guards you can install them now by holding each guard in place as you hang a 1" clamp around the a-arm tube and thread in an M8x20 bolt. Once all hardware is installed be sure to turn your wheel full lock in each direction checking for any possible interferences. If you do find an interference loosen hardware and adjust the guard accordingly.

Hardware Placement Guide for Can-Am Commander (P/N 9044F)

