



# DeFender™ XC Full Length Side Plates

**IMPORTANT:** Thank you for purchasing this Poison Spyder product. Please read through this entire document before proceeding with installation. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. Check your packages immediately upon arrival to ensure that everything listed is included, and to check for damage during shipping. If anything is missing or damaged, or if you need technical assistance with any aspect of this installation, call Poison Spyder at (951) 849-5911 as soon as possible. This document last updated February 2016.

## APPLICATIONS

These installation instructions apply to the following Poison Spyder products:



**14-02-090-P04** DeFender™ XC Full Length Side Plates

## PARTS LIST

Please check your packages immediately upon arrival to ensure that everything listed is included, and to check for damage during shipping. If anything is missing or damaged, call Poison Spyder at (951) 849-5911 as soon as possible.

- (1) Driver Side DeFender™ XC Full Length Side Plate
- (1) Passenger Side DeFender™ XC Full Length Side Plate
- (1) DeFender™ Full Length Side Plates Hardware Kit  
 PN: HWKIT-14-02-092 Includes:
  - (30) 5/16-18 X 3/4 SS flat head cap screw
  - (14) 5/16-18 nylon insert lock nut
  - (16) 5/16-18 nut-sert
  - (1) 5/16" Nut-Sert Install Tool - includes:
    - (1) 5/16-18 X 2 Gr5 Hex Head Cap Screw
    - (2) 5/16" SAE Hardened Flat Washer
    - (1) 3/8-16 X 1-1/8 Coupling Nut
    - (1) 5/16-18 Nut-Sert

## TOOLS NEEDED

- 3/16" Hex key
- 1/2" End wrench or socket & ratchet
- Drill motor with 5/16" & 17/32" drill bits
- Thread anti-seize compound
- Optional: Pro nut-sert install tool

## INSTALLATION PROCEDURE

These instructions assume the Poison Spyder DeFenders™ have already been installed. If Poison Spyder Rocker Knockers™, Ricochet Rockers™ or other manufacturer's rocker armor is to be used, make sure it is already installed as well.

It is recommended to paint or powder-coat the DeFender Full Length Side Plates AFTER the initial installation, (remove them after installation is complete, paint or powder-coat them, then re-install) so that the drilling and handling of the parts during initial installation does not damage the finish.

- 1. Place Full Length Side Plate** against the side of the previously-installed DeFender™, and loosely install seven (7) of the supplied SS flat head cap screws, with nyloc nuts, in the triangular forward section of the Side Plate that overlaps the DeFender™. Leave these fasteners barely snugged, so that the position of the Side Plate may still be slightly adjusted.
- 2. Check the positioning of the Side Plate** in relation to the top of the Rocker Knockers™ or other rocker armor (if present), and the top of the DeFender. There will be some room for adjustment. You may wish to align the Side Plate very close to the top of the rocker armor, or to split the difference between the top of the rocker armor and the top of the DeFender. Once it is positioned how you like it best, further tighten the hardware installed in the previous step.
- 3. Use the drill motor with 5/16" drill bit** to drill the remaining five (5) holes through the side of the Jeep's tub, using the Side Plate as your drill guide. Be careful to only drill through the outer sheetmetal. There is an inner panel that you need not drill through.
- 4. Remove the Side Plate from** the Jeep.
- 5. Use the drill motor with the 17/32" drill bit** to open each of the previously drilled holes up to their final size. Be careful not to let the bit wander or snag.
- 6. Install a 5/16-18 nut-sert into** each of the holes that were drilled out to 17/32".

*NOTE: the following photos are for illustrating the nut-sert installation process only, as they depict a different product being installed.*

*It is highly recommended to invest in a professional nut-ert installation tool, such as the one sold by Poison Spyder (p/n: 70-TS-325-RN ) or elsewhere. The professional tool will make the installation of nut-erts MUCH easier than using the free tool included in this kit, and it will come in handy with future product installations as well. If using a professional nut-ert installation tool, follow the directions that came with the tool and skip the next three steps of these instructions.*



*The simple “tool” included with this product is admittedly frustrating to use, however it will work for those with patience who would like to save the cost of the professional tool. If using the simple tool included with this product, continue through the following steps:*

The provided nut-ert install tool consists of a bolt, two washers and a coupler (long) nut. Assemble these items as shown (bolt—washer—coupler nut—washer—nut-ert). Insert the nut-ert end of the assembly into the hole you drilled.



**7. Use an open end wrench** to hold the coupler nut stationary while turning the head of the bolt clockwise with a ratchet (or small impact wrench) and socket. As you turn the ratchet, the bolt will draw the far end of the nut-ert toward the inside of the sheet metal, gripping it with the knurled outside edge of the nut-ert as it deforms.

Continue to turn the ratchet until the nut-ert is fully seated. **DO NOT OVER-TIGHTEN** as you can damage the nut-ert, or cause it to lose its grip.



**8. Once the nut-ert has seated** correctly, loosen the bolt then remove it and the rest of the tool from the nut-ert. Install a new nut-ert onto the tool, oriented the same as the last, and set it aside until your next nut-ert installation.



**9. With the tool removed, inspect** the nut-ert to make sure it is properly seated and that the surrounding sheet metal isn't excessively deformed. Note that some deformation of the sheet metal is normal, and that it will be covered by the part after installation.



*If you “spin” a nut-ert: That is, if it loses its grip due to over-tightening or improper installation, the quickest, easiest fix is to use a MIG welder to place a small tack weld at the edge of the nut-ert flange. Before applying the tack weld, sand or grind the paint from a very small area of the sheetmetal where the tack weld*

will be. Then insert a screw into the nut-sert to protect the threads from weld splatter. Only apply a very small tack or two, as you do not want to heat up and deform the nut-sert or the sheetmetal. Then grind the tack(s) smooth and apply touch-up paint to prevent rust.

**10. Re-install the Side Plate, this** time using all of the remaining hardware. Use anti-seize compound on each screw, especially those installed into the nut-serts. Be very careful not to over-tighten the screws into the nut-serts, as they may spin if not installed properly. See the Nut-Sert Install Tool Instructions for tips on using dealing with a "spinning" nut-sert.

**11. Repeat for the other side.**

*Congratulations, you have completed the installation of your DeFender™ XC Full Length Side Plates!*