



TJ/LJ-YJ-CJ DEFENDERS INSTALLATION



Thank you for purchasing Poison Spyder DeFenders™ for your Jeep. Installation is fairly simple with the right tools and good mechanical abilities. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. Please read through these entire instructions before proceeding with installation.

IMPORTANT: Completely install and remove the DeFenders™ prior to painting or powder coating it. This will allow you to check for fitment or do any clearancing or fitting ahead of time, to reduce the chance of damage to the finish during final installation. Poison Spyder Customs Inc. is not responsible for costs for or damage to paint or powder coat finish under any circumstances, including paint or powder coat of incorrectly shipped or defective parts.

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™
- (1) Passenger side DeFender™
- (1) Driver side DeFender™ Side Insert

- (1) Passenger side DeFender™ Side Insert
- (1) Battery Tray Bracket (TJ/LJ Only)
- (10) 1/4-20 X 3/4 SS button head cap screw
- (10) 1/4-20 nylon insert lock nut
- (10) 1/4 flat washer
- (14) 5/16-18 X 3/4 SS button head cap screw

TJ/LJ CJ-YJ

- (4) (6) 5/16-18 X 1 SS button head cap screw
- (4) (6) 5/16-18 nylon insert lock nut
- (4) (6) 5/16 fender washer

TOOLS NEEDED

- Fine-tip felt marker & measuring tape
- Sockets, ratchet, end-wrenches and hex keys
- Cut-off wheel, pneumatic body saw, plasma cutter or reciprocating saw (or other suitable cutting device)
- Drill motor
- 1/4" drill bit
- 3/8" drill bit (CJ and YJ)

INSTALLATION PROCEDURE

1. **Park vehicle on a level** surface and set the emergency brake. You will want to wear eye protection beyond this point in time.
2. **Remove any existing plastic fender** flares from the vehicle. Remove the hood latches.
3. **(TJ/LJ ONLY) Disconnect and remove** battery, battery tray, and battery tray bracket. Retain the OE hardware.
4. **Disconnect all turn signal wires** from the turn signal light housing. Check for any other loose wiring and be sure it is out of the way.

NOTE: the following steps denote the procedure for making the necessary cuts to the stock fenders, with the fenders and inner fenders not fully removed from the Jeep. Some customers have reported they found it quicker/easier to remove the entire fender from the Jeep to make the necessary cuts to the fender on a workbench. You may choose either method at your discretion, but note that if removing the entire fender to make the cuts, you will need to remove and reinstall all of the under-hood components that mount to the inner fender, for which we do not provide a detailed procedure.

5. **Look at the underside/inside of** the fender. You'll see where a steel brace sticks out from the body for the hood latch mount. You will cut away most of the outer fender, leaving the hood latch mount and a 1" strip along the inner edge of the fender (at the hood line). Use a measuring tape and fine-tip felt marker to draw a cut line along these parameters. The cut need not be precise, as it will be underneath the DeFender™ and hidden from view in the final installation. Note the mounting holes along the corresponding inner edge of the DeFender™; you will need to leave only enough of the OE fender to be able to drill the mounting holes that correspond to the holes in the DeFender™. Pay careful attention to the single bolt hole forward of the hood latch holes, be sure to leave enough of the original fender to use that bolt hole.
6. **Remove the three bolts that** attach the stock fender to the grill. Set these bolts aside, they will be re-used to mount the DeFender™.

7. **Cut along the traced cut-line** (from Step 4) with a pneumatic body saw, reciprocating saw, cut-off wheel or other appropriate cutting tool. The cut will begin behind the front mounting point that attached the fender to the grill, and continue all the way back through the part of the fender that bolts the fender to the firewall (cut through this).

NOTE: your stock inner fender will NOT be attached to the Jeep's tub. Rather, it will attach to the DeFender™s.

8. **Next you will be removing** the side sheet metal of the stock fender. Cut where the inner fender meets the outer side of the fender, leaving as much of the inner fender as possible. Make this cut with your cutting tool of choice.
9. **Unbolt and remove the remnants** of the stock outer fender. Retain the OE hardware from where the fender was bolted to the firewall. Leave the stock inner fender "hanging" in place in the engine compartment.
10. **Loosen the front center body** mount, located directly under the grill.
11. **Position the DeFender™ in place.** Loosely install the OE hardware at the firewall and the grille.
12. **With the first DeFender™ loosely** fitted, repeat the previous steps for the opposite side DeFender™.
13. **Once both DeFender™s are loosely** installed, tighten all mounting hardware. Check and adjust alignment as you tighten the hardware. Re-tighten the front-center body mount.
14. **With the DeFender™s secured into** place, pull the stock inner fender back into location. The outer edge of the rear panel of the inner fender will need to be pushed rearward to fit the DeFender's™ larger wheel opening. This panel should sit *behind* the two corresponding mounting flanges on the DeFender™. Loosely install two (TJ/LJ) or three (YJ-CJ) each of the provided 5/16-18 X 1 SS button head cap screws, 5/16-18 nylon insert lock nuts, and 5/16 fender washers, here where the inner fender and meets the bolt flanges at the back of the DeFender wheel opening.

15. **Make sure the top edge** of the inner fender is snug against the inner edge of the DeFender™ and firmly clamped in place, and drill all ten inner fender mounting holes, using the holes in the DeFender™ as your drill guide. Use the provided 1/4" hardware to attach the inner fender to the DeFender™. On CJ/YJ, use the provided 3/8" hardware to bolt the inside of the DeFender™ to the stock inner fender.
16. **(TJ/LJ ONLY) Install the provided Battery Tray Bracket** in the same position as the removed OE bracket, using the OE hardware. Reinstall the battery tray and battery, re-connect the battery.
17. **Install the Side Inserts using** the provided 5/16-18 X 3/4 SS button head cap screws. Note that the Side Inserts come with pre-installed nuts. The insert is designed to be placed on the inside surface of the DeFender™, with the pre-installed nuts facing toward the center of the Jeep.
18. **Re-install the hood latches** to the top of the DeFenders™.

HELPFUL TIPS & NOTES

- Install and test-fit DeFender™ in place BEFORE painting.
- You will be cutting off almost all of the stock outer fender. When all the cuts have been made, there should only be a small strip of the top of the outer fender left. The side of the fender will be gone.
- A ratchet strap is sometimes helpful to pull the DeFender™s down into place when tightening the bolts.
- On CJ's, the headlight bezel and assembly will need to be removed to access the top nut (this is the second hole down from the top, and not an original fender mounting hole which is now blocked by the new DeFender™).
- It is recommended to relocate turn signals in accordance with your local laws.
- Save all factory mounting hardware, some of it may be re-used.

WARRANTY

Poison Spyder Customs™ warranties all of the products we sell and distribute for one (1) year from the date of sale. These products will be free from defects in material and workmanship under normal installation, and use. Due to the intended use the powder coat finish is warranted for ninety (90) days. The finish warranty will not cover a product if it has been damaged in any way. Warranty is limited to repair or replacement. Poison Spyder Customs™ does not offer any type of labor or shipping allowance and all warranty claims are subject to inspection by Poison Spyder Customs™.

At the discretion of Poison Spyder Customs™, the products in question can be repaired or replaced when found defective. Prior to any replacement or repair, written authorization must be obtained from Poison Spyder Customs™. Failure to contact us prior to having warranty work performed will immediately void all applicable warranties; and it is then the sole responsibility of the customer to remit any payment incurred.

The warranty expressed above is the sole warranty of Poison Spyder Customs™, and any other expressed or implied warranties are hereby specifically excluded and disclaimed.

HOLD HARMLESS AGREEMENT

1. In purchasing a Poison Spyder Customs Product™ I release, waive, discharge and covenant not to sue Poison Spyder Customs officers, servants, agents, or employees (hereinafter referred to as Releasees) from any and all liability, claims, demands, actions and causes of action whatsoever arising out of or related to any loss, damage, or injury, including death, that may be sustained by me (or anyone else), any property belonging to me (or anyone else), whether caused by the negligence of the releasees or otherwise, while working on, using or any activity related to this product.
2. I am fully aware of risks and hazards connected with the use of a this product and I elect to voluntarily engage in such use of this product knowing that the use may be hazardous to me and my property. I voluntarily assume full responsibility for any risks of loss, property damage or personal injury, including death,

that may be sustained by me (or anyone else), or any loss or damage to property owned by me (or anyone else), as a result of using this product, whether caused by the negligence of releasees or otherwise.

3. I further agree to indemnify and hold harmless the releasees from any loss, liability, damage or costs, including court cost and attorney fees, that they may incur due to my use of a this product, whether caused by negligence of releasees or otherwise.
4. It is my express intent that this Release and Hold Harmless Agreement shall bind the members of my family and spouse, if I am alive, and my heirs assigns and personal representative, if I am deceased, and shall be deemed as a release, waiver, discharge, and covenant not to sue the above named releasees. I further agree that this Waiver of Liability and Hold Harmless Agreement shall be construed in accordance with the laws of the State of California.

By accepting this product, I acknowledge and represent that I have read the above Waiver and Liability and Hold Harmless Agreement, understand it and accept it voluntarily as my own free act and deed; no oral presentations, statements, or inducements, apart from the foregoing written agreement, have been made; I am at least eighteen (18) years of age and fully competent; and I execute this Release for full, adequate and complete consideration fully intending to be bound by same.

If you do not agree with the preceding Hold Harmless Agreement, you may return the product and receive a full refund. Please, contact a Poison Spyder Customs™ sales representative and they will issue a call tag for the product in question. Once the product has been received by Poison Spyder Customs™ a full refund will be issued.