

JK BRAWLER LITE FRONT SKID PLATE INSTALLATION



The Poison Spyder Customs JK Brawler Lite Front Skid Plate is easy to install 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.

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) JK Brawler Lite Front Skid Plate
- (13) 3/8-16 X 1 Gr8 Hex Head Cap Screw
- (13) 3/8-16 Gr8 Nylon Insert Lock Nut
- (9) 3/8 Gr8 Flat Washer
- (4) 3/8 X 1 Fender Washer

TOOLS NEEDED

- Paint and paint supplies (if painting)
- 9/16" end wrenches (2)
- Abrasive cut-off wheel or other suitable metal cutting tool
- 3/8" transfer punch and hammer
- Drill motor and 3/8" drill bit
- Touch-up paint or clear coat

BEFORE YOU BEGIN

The JK Brawler Lite Skid is shipped un-painted. Before you paint or powder coat, perform the entire installation of the product to ensure that it fits without risking damage to your paint or powder coat finish. Poison Spyder Customs is

not responsible for paint or powder coat costs in the event you damage the finish during installation, or that the parts are incorrect or defective.

You will want to paint or powder-coat these components prior to FINAL installation. If painting them yourself, we recommend starting with a quality etching primer and allowing sufficient cure/dry time between coats and before you apply color. Quality spray-can paints are fine, however be sure to thoroughly paint all of the inside corners and hard-to-reach areas of the bumper. A little extra time and attention to detail on your preparation and paint process will pay off in longer-lasting good looks and rust prevention.

The following installation instructions assume that the customer already has a Brawler Lite or front bumper, and that the OE bumper or the Brawler Lite bumper has already been removed from the Jeep. See the instructions that came with your Brawler Lite front bumper for details on that procedure.

INSTALLATION PROCEDURE

1. **Park vehicle on a level** surface and set the emergency brake. You will want to wear eye protection beyond this point. It is assumed the stock bumper has already been removed, and that the Brawler Lite bumper installation is already in progress (The bumper should not be mounted on to the Jeep yet). Perform the following steps for installing the Skid Plate, within the bumper installation procedure where noted in the instructions for the bumper.
2. **Bolt the Skid Plate to** the bottom of the Brawler Lite Front Bumper, using the nine (9) provided 3/8-16 X 1 Gr8 Hex Head Cap Screws through the holes in the mounting flange for each piece, fastened with the provided 3/8 Gr8 Flat Washers and 3/8-16 Gr8 Nylon Insert Lock Nuts. These holes will align when the two pieces are properly

mated together. Note that the bolts at the front-outermost corners on each side may interfere with the Jeep's bumper mount flanges. This is due to some year-to-year manufacturing variances in Jeep models. If yours does not fit properly during test fitting, simply pull the bumper/skid, remove the two front-outer bolts, and continue with the installation. Deletion of these two bolts will be insignificant to the integrity of the bumper/skid structure. Tighten the 3/8" bolts.

NOTE: The factory "crash bar" is the thin sheetmetal crossmember which runs from one side to the other, at the front of the Jeep's frame, just behind the bumper (the bumper should already be removed at this point). There is some small interference between the crash bar and the skid plate, the amount of which will vary by Jeep year model. At your discretion you may choose to either trim the crash bar to accommodate the skid plate, or remove the crash bar altogether. We recommend complete removal of the crash bar. The crash bar's purpose is superficial once the skid plate is installed, so it may be removed without any compromise of the Jeep's structural integrity.

3. **If the choice is made** to REMOVE the crash bar, use a pneumatic cut-off wheel to simply cut the crash bar and its side bracketry completely off of the frame. Clean up the cuts with a grinder, and paint the bare metal to discourage rust. Skip this step and move to the next step if the choice is made to keep the crash bar.
4. **If the choice is made** to KEEP the crash bar, the lower corner of the crash bar at either end must be trimmed for proper fitment of the Brawler Lite Skid Plate. Use an abrasive cut-off wheel or other suitable cutting tool to trim off the end of the crash bar. On most year models, your cut should be adjacent to the outside edge of the front vertical support, or 7/8" inboard from the outside edge of the outermost frame bracket as shown in Figure 1. Due to variances in different year models, your JK may require more or less trimming than shown. So some test-fitting and further trimming of the crash bar may be required.

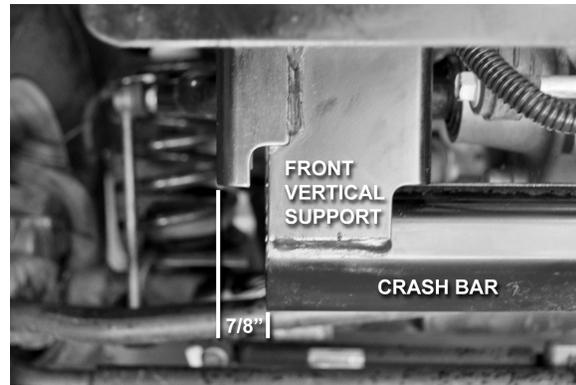


FIGURE 1

5. **Once the crash bar has** been trimmed for fitment of the skid, use a file or die grinder to de-burr the cut edge, then apply touch-up paint or clear coat to the exposed bare metal for protection against corrosion.
6. **Install the bumper and skid plate** assembly onto the frame. There are eight (8) threaded studs located on the inside/backside of the bumper, which will correspond with the bumper mounting holes on the frame. It may be a tight fit due to slight manufacturing variances from Jeep to Jeep, but the bumper will fit with some gentle persuasion. You may need to use a rubber mallet or soft dead-blow hammer to tap the bumper into place. Be careful not to mar your paint or powdercoat finish. *Note the possible bolt interference that was discussed in Step 2, and remove the two denoted bolts if they cause a fitment issue.*
7. **Locate the 1/2-13 nylon insert** lock nuts and 1/2" flat washers that came in the hardware kit with your Brawler Lite front bumper. Install a flat washer and lock nut onto the two bumper mounting studs at the outside of the frame rail on either side of the Jeep. Snug these with the 3/4" deep socket, extension and ratchet but do not over-tighten. Do not install the inboard nuts at this time.
8. **OPTIONAL: The four 3/8 holes** along the bottom edge of the skid plate may be used to bolt the skid to the crash bar, if desired and if the crash bar was not removed earlier. This will require corresponding holes to be drilled into the bottom edge of the crash bar. Use a hammer and a 3/8" transfer punch through each of the four holes to mark the drill locations along the bottom of the crash bar.

Once these marks have been made, remove the bumper and skid plate. *Note that bolting to the crash bar is considered optional, and its omission will not be a considerable detriment to the bumper/skid structural integrity.*

- 9. Use the drill motor and 3/8" bit** to drill the five holes along the bottom of the crash bar that were located and marked in the preceding step.
- 10. De-burr the edges of the holes** then use touch-up paint or clear coat to protect the bare metal.
- 11. Proceed with the remainder of the front bumper installation procedure.** If using the option to bolt to the crash bar, use the four (4) supplied 3/8-16 X 1 Gr8 Hex Head Cap Screws, along with 3/8 X 1 Fender Washers and 3/8-16 Gr8 Nylon Insert Lock Nuts to bolt through the bottom of the Brawler Lite Skid Plate, into the crash bar.

Congratulations, you have completed the installation of your Poison Spyder JK Front Brawler Lite Skid Plate! Now, please proceed with the remaining instructions to complete the installation of your JK Brawler Lite Front Bumper.

INSTALLATION INSTRUCTIONS

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

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.

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.

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.

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.

INSTALLATION INSTRUCTIONS