

## JK ROCKBRAWLER REAR BUMPER INSTALLATION



The Poison Spyder Customs RockBrawler Rear Bumper 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

- (1) RockBrawler Rear Bumper
- (4) 3/8-16 x 1 Gr8 Hex Head Cap Screw
- (4) 3/8-16 Clip Nut
- (4) 3/8 Flat Washer

### TOOLS NEEDED

- Primer, paint, cleaners and masking materials (if painting)
- Mechanic's tool set with a full assortment of SAE and metric end wrenches, sockets, ratchets, hex keys, etc.
- Drill Motor with 1/4" & 1/2" drill bits, and a 1" hole saw (or drill bit or step drill)
- Measuring tape or ruler
- Felt-tip fine point marker, scribe or punch

### BEFORE YOU BEGIN

The Poison Spyder Customs RockBrawler Rear Bumper comes as unpainted, bare steel. You will want to either powder coat or paint the bumper prior to final installation. If painting yourself, careful preparation will make a big difference in the quality and longevity of your paint job, even using "rattle can" aerosol paints. Begin by thoroughly cleaning the bumper with solvent or de-greaser, then make sure all residue is removed. Even if you use cheap paint, try to use a good quality primer. "Etching" primers are best to use on bare, unpainted metal. Allow it to

properly dry before painting, and between paint coats.

### INSTALLATION PROCEDURE

1. **Park the Jeep on a flat, level surface** and set the parking brake.
2. **Remove existing rear bumper** and disconnect the rear sway bar where it bolts to the outside of the frame rails. Keep the OE hardware that attached the bumper to the frame rails, as some of it will be re-used.
3. **Look along the underside of the Jeep's rear crossmember** to locate two small holes, just a few inches inboard from the frame rail at either end. Measure 3/4" outboard from the edge of the existing hole and either center-punch or use a felt-tip pen to make a mark (as shown in Figure 1). Use a hole saw, drill bit or step drill to make a 1" hole centered on this mark. Repeat for the opposite side, making sure the new hole is outboard of the existing hole on either side.

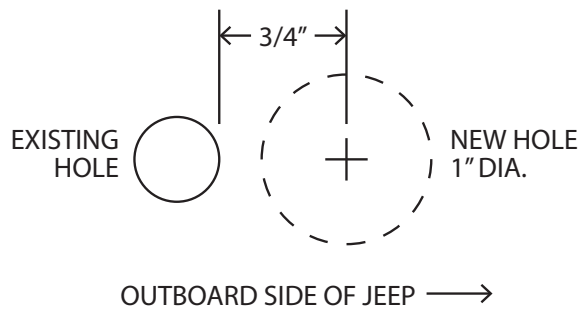


FIGURE 1

4. **Apply touch-up paint to the bare metal** around the edges of the holes that were drilled in the previous step. Properly coating these areas at this time will help to prevent rust in the future.
5. **Insert a 3/8-16 Clip Nut** through the new 1" hole, and clip it into the pre-existing hole. Make sure the extruded thread barrel of the clip nut points inward. Do this at both of the hole locations along the underside of the crossmember.



FIGURE 2

6. **With the help of a friend**, pre-install the RockBrawler rear bumper on to the Jeep. The bolt flange of the RockBrawler bumper will mount between the outside of the frame rail and the sway bar bracket. Note that there are three bolt holes in the bolt flange on each side of the bumper. Two of these bolt holes will align with the stock bolt holes in the frame rail, where the sway bar bracket attaches. Use the OE hardware to secure the bumper in place using these two bolt locations on either side.
7. **Use a felt-tip pen or 3/8 center punch** to mark the location of the third bolt hole on the frame rail, for each side. Then remove the bumper.
8. **Drill the third bolt hole** on each side to 1/2". It is best to start with a smaller drill size such as 1/4", then step up to the 1/2" size bit.



FIGURE 3

9. **Apply touch-up paint to the bare metal** around the edge of the holes that were drilled in the previous step. Properly coating these areas at this time will help to prevent rust in the future.
10. **Insert a 3/8-16 Clip Nut** through the oblong-shaped hole in the frame rail, and clip it into the new hole just drilled. Make sure the

extruded thread barrel of the clip nut points inward. Do this on both frame rails.



FIGURE 4

11. **Reinstall the RockBrawler bumper** using the OE hardware in the two original bolt locations on the sides of the frame rail, and a supplied 3/8-16 X 1 Gr8 Hex Head Cap Screw with 3/8 Flat Washer in each of the new bolt locations on the outside of the frame rails and under the crossmember (where the Clip Nuts were installed in the previous steps). Again, note that the bolt flange of the bumper mounts between the outside of the frame rail and the sway bar bracket.



FIGURE 5

12. **Torque the eight bolts (3 on each side and two underneath)** to 45 ft.-lbs.
13. **If the optional 2-1/2" LED backup lamps** were purchased, use the provided rubber grommets to mount them into the recessed mounting flanges inside the backup lamp buckets. Use the electrical pigtails that came with the lamps, along with wire and connectors (not included) to wire the backup lamps in to your Jeep's backup lamp circuit.

*Congratulations, you have completed installation of your RockBrawler Rear Bumper!*

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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 preformed 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.

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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

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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.

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INSTALLATION INSTRUCTIONS