

## JK RockBrawler™ II Rear Bumper Installation



*The Poison Spyder Customs RockBrawler™ II 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) JK RockBrawler™ II Rear Bumper
- (1) Black Plastic Cap
- (2) 3/8-16 X 1 Gr8 Hex Head Cap Screw
- (2) 3/8 SAE Gr8 Flat Washer
- (2) 3/8-16 Clip Nut
- (2) 1/2-13 X 4-1/4 Gr8 Hex Head Cap Screw
- (2) 1/2-13 Gr8 Nylon Insert Lock Nut
- (2) 1/2 Gr8 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
- Measuring tape or ruler
- Felt-tip fine point marker, scribe or punch

### **BEFORE YOU BEGIN**

The Poison Spyder Customs RockBrawler™ II 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. **With the help of a friend**, pre-install the RockBrawler™ II rear bumper on to the Jeep. The bolt flange of the RockBrawler™ II 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. On the driver side with the Floating Mount Plate, tighten the hardware attaching the plate to the bumper, after ensuring that the bumper is properly centered and aligned.
4. **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.

5. **Look underneath the bumper, note** that there are 4 bolt holes along the bottom surface of the bumper. The driver's side, outside hole will need to be marked to drill a corresponding hole in the crossmember that sits just behind it. Use a center-punch or fine-tip felt marker to mark the hole location. You may notice that the outside passenger side already has a through-hole through the crossmember. Disregard the two center holes.



FIGURE 3

6. **Remove the bumper from the Jeep.**
7. **Drill upward through the crossmember,** at the hole location marked in the previous step. Start with a smaller drill size such as 1/4", then step up to the 1/2" bit for the final hole size. Drill through both the bottom and top surfaces of the bumper, trying to hold the drill perpendicular so the holes are vertically aligned.
8. **Drill the third bolt hole** on the sides of each frame rail 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 steps. 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™ II 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. Note that both the bumper's mount flanges are inserted between the outside of the frame rail and the sway bar bracket.
12. **Insert the 1/2-13X4-1/4 Gr8 Hex Head Cap Screws** into the two outside holes along the underside of the bumper, with a 1/2 Gr8 Flat Washer under the bolt head. Insert the bolt up through the holes in the bumper and both top and bottom surfaces of the crossmember. Secure them with a 1/2-13 Gr8 Nylon Insert Lock Nut and 1/2 Gr8 Flat Washer, where they protrude through the top of the crossmember. You may have to do this by feel, as the nuts and washers will be threaded on inside the bumper shell,



FIGURE 5

13. **Once the entire bumper is mounted and tested for proper fitment, remove the bumper for paint or powder coat.** 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.
14. **After the bumper has been painted or powder coated, re-install by repeating the above steps.**
15. **Torque the eight bolts (3 on each side and two underneath) to 45 ft.-lbs.**
16. **Insert the supplied Black Plastic Cap into the round hole on the passenger side top surface of the bumper.** Lightly tap it into place until it is firmly seated against the surface of the bumper.
17. **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™ II Rear Bumper!*

**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.

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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

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