



FULL METAL FABWORKS

JK Breakover Series Rear Frame Chop Bumper for Jeep JK 2007-2018

Please read these instructions in their entirety before proceeding with installation. If you are not confident in your ability to perform this installation, or lack the necessary tools, please consult the help of a professional.

What Is Included:

Before beginning the installation, please make sure that all parts and hardware are included in your package and that no damage has been done to the product during shipping. If you are missing parts or the product is damaged please give us a call at (909)-505-7115 and we will make sure that any problems are taken care of.

- 1.) (1) Breakover Series Rear Bumper
- 2.) (2) replacement (1 Left, 1 Right) body mounts
- 3.) (4) 3/8"-16x4.25 Grade 8 Hex Head Cap Screws
- 4.) (12) 3/8" heat treated flat washers
- 5.) (8) 3/8"-16 Grade 8 Nylock Nuts

Tools Needed:

- Safety Glasses
- 18mm socket
- 16 mm Socket
- 9/16" Socket
- matching ratchet
- Drill
- 3/8" drill bit
- sharpie/center punch/ marking device
- Cutoff wheel/reciprocating saw to remov rear frame horn frame horn/body mounts

After verifying all parts, tools, and skills are accounted for and reading these instructions, you are ready to start the installation.

Installation Procedure:

- 1) Begin by parking your vehicle on a level surface and setting the parking brake.
- 2.) Installation instructions assume factory rear bumper has already been removed. Retain all factory hardware as some of it will be reused.
- 3.) After the factory bumper is removed, begin by removing the (2) rearmost body mount bolts using an 18mm socket.



4.) Using a Cutoff Wheel or reciprocating saw, remove the rear cross member and 2 rear body mounts.

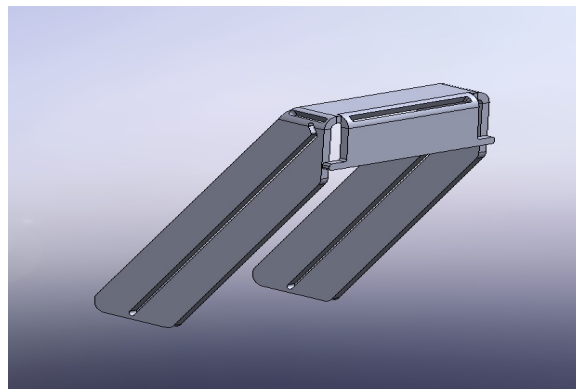
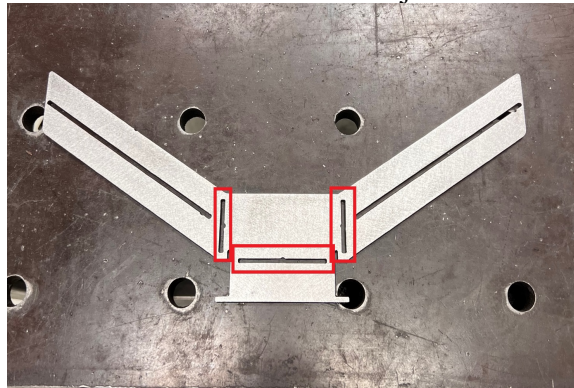


5.) Using a flap wheel remove any remaining portion of the cross member and body mount until the frame is smooth.



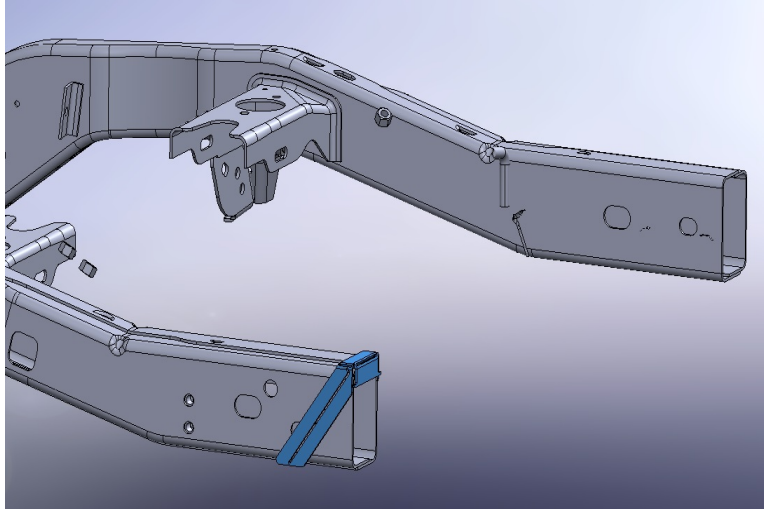
6.) Next, bend the included cut template at the (3) pre-cut bend areas shown in red below. All three will be bent to 90 degrees. We have found it easiest to clamp the flat template to a table and

make the bends with either a dead blow hammer or an adjustable wrench.

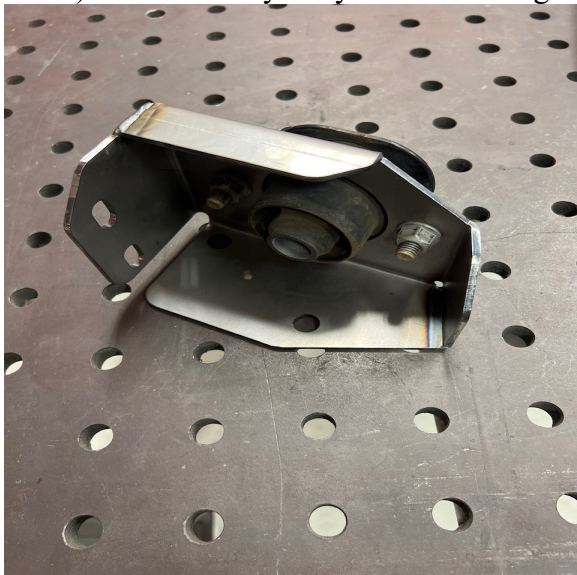


7.) Align the cut template with the back of the frame as shown below and use the slots to scribe/mark a line for cutoff. If you do not wish to use the template for cutting, you can simply use the following measurements and connect the points to make your cut line, note: these are the absolute minimum amount needed to fit the bumper; cutting exactly enough off will make the bumper a nice tight fit but also may mean more adjustment is needed later.

- From the back of the frame horn toward the front of the vehicle on top of the frame, mark 0.325"
- From the back of the frame horn toward the front of the vehicle on the bottom of the frame, mark 3.50"



8.) Install factory body mount bushings into the new body mounts using the factory nuts.



9.) Loosely install the body mounts onto the rear bumper using the (4) captured 3/8-16x1” bolts, (4) 3/8 heat treat flat washers, and (4) 3/8-16 Gr8 Nylocks. Leave these finger tight for now as they will be tightened in a later step.



- 10.) At this point the frame is not currently attached to the rear body. The two frame rails may naturally spring apart; this is easily remedied by wrapping a small ratchet strap around the rails and ratcheting them closer together. The bumper itself will give you a visual of how far they need to come in, if at all, but the factory measurement from outside of frame rail to outside of frame rail is 46.42" if you need a reference. If you are performing this installation on a lift, the frame rails will want to sag down away from body with the weight of the axle/suspension. This can be remedied by lowering the frame down onto jackstands. If the vehicle is sitting on its own weight on the tires, this step shouldn't be necessary.
- 11.) With the frame in the factory position, install the bumper using the (2) body mount bolts and the (4) factory bumper bolts that go into the outside of the frame as shown below in green. Tighten all 8 bolts holding the bumper in position.



- 12.) With the bumper in position, note that one of the holes aligns with a factory hole in the frame on each side. The other holes will need to be drilled through the frame to accommodate the (4) 3/8"-16x4.25 Grade 8 Hex Head Cap Screws. You can use the bumper as a drill guide and drill them in place, or mark them with a center punch/sharpie and remove the bumper to drill.
- 13.) Touch up all holes/cuts on the frame to prevent corrosion
- 14.) Apply coating of choice, paint or powder coat, to the bumper and reinstall after it has dried.
- 15.) Congratulations, your installation is complete. Enjoy your new found ground clearance and be sure to tag us in any social media posts. We appreciate your business, please let us know if we can help you with anything else in the future.

Hold Harmless Agreement:

In purchasing a Full Metal Fabworks LLC product I release, waive, discharge and covenant not to sue Full Metal Fabworks LLC 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 representative of Full Metal Fabworks LLC and they will issue a call tag for the product in question. Once the product has been received by Full Metal Fabworks LLC a full refund will be issued.

