



## **FULL METAL FABWORKS**

### **JK Pinnacle Series Crash Bar Skid**

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)-792-9777 and we will make sure that any problems are taken care of.

- 1.) (1) 3/16" Crash Bar Skid Plate
- 2.) (10) 5/16-18x3/4 SS Countersunk Machine Head Allen Screws
- 3.) (10) 5/16 SS Flat Washers
- 4.) (10) 5/16-18 SS Nylock Nuts

#### **Tools Needed:**

- Safety glasses
- 1/2" Box wrench or socket and ratchet
- 3/16" Allen
- drill motor
- Cutoff wheel, Dremel, file, or grinder to remove lip from bottom of crash bar
- Fine tipped marker or Center punch for marking holes
- 11/32" drill bit

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 front bumper has already been installed, if bumper has not been installed please refer to Apex Pinnacle Series Front Bumper Installation Instructions

3.) Some Jeep's crash bars have a small flange/tab protruding off of the bottom of the factory crash bar. If your Jeep has this flange, it will need to be sanded down or cutoff so that the bottom of the skid plate will sit flush with the cross member portion of the crash bar. Refer to Figure 1 below for an approximate location of the cut line, however it should be apparent when the parts are in front of you.

Figure 1) Cut below blue tape line, or sand until flange is flush with bottom of the crash bar cross-member



4.) After the flanges have been removed apply touch up paint to sanded area to prevent future oxidation and allow paint to dry completely.

5.) The bumper comes with the corresponding holes for the skid plate and two of the holes in the crash bar match with existing factory holes for most models, leaving you with just 2 holes to drill in the crash bar for mounting.

6.) Install the skid plate using all existing holes and the provided hardware. Mark and Drill the remaining 2 holes in the crash bar using your 11/32" Bit

7.) Apply touch up paint to the 2 holes that were drilled in the previous step. All to dry completely and then final install the skid plate, including the last 2 bolts in the new holes.

8.) Congratulations you have completed installation of you Full Metal Fabworks Pinnacle Series Crash Bar Skid Plate.



**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.*