



METALCLOAK

INSTALLATION INSTRUCTIONS

PRODUCT: JK OVERLINE REAR TUBE FENDERS

REV: C | 04-15-11 | II-3214

READ INSTRUCTIONS IN FULL BEFORE INSTALLATION.

QUESTIONS? CALL 916-631-8071 M-F 8:00 AM – 5:00 PM PST

The MetalCloak experience includes the ease of installation of our products. We design for most contingencies, but installation may be different based on different Jeep condition, configuration and/or year.

We are continually trying to improve our products and instructions – please help us by providing feedback and pictures if you find any part of the instructions that do not match your particular Jeep or are not easily understandable.









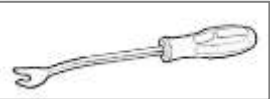

If you have any difficulties at all, please give us a call. Thank you and enjoy your MetalCloak Products!

IMPORTANT NOTE: We use Stainless Steel Hardware where possible. Therefore, a tube of Silver Anti-seize is provided and should be used on all bolts—only a small amount is needed.

WARRANTY INFORMATION: This article is sold without warranty expressed or implied. No warranty or representation is made as to this products ability to protect the user from injury or death. The user assumes that risk. The effectiveness, warranty and longevity of this equipment are directly related to the manner in which it is INSTALLED, USED and/or MAINTAINED. THE USER ASSUMES ALL RISK. By purchasing this product and opening the packaging, purchasers expressly acknowledge, understand and agree that they take, select and purchase these MetalCloak products from Armored Works, LLC, its affiliates and distributors and agents as is and with all faults. The entire risk as to the quality and performance of these MetalCloak products is with the purchaser. Working on your vehicle can be a dangerous activity. If you are unsure of what you are doing, please leave mechanical or safety critical work to a skilled mechanic. We take no responsibility for the incorrect use and/or installation of MetalCloak products.

Phase 1: Tools & Notes on Installation

Tools Required: This list is the recommended tools for ease of installation. Other versions of the same tool can be used. For example, Allen Wrenches instead of Allen Drive Sockets.

	Socket & Ratchet Wrench	9/16" Hex Drive Socket 10 and 13mm Hex Drive Sockets	
	1/8" Drill 9/32" Drill 13/32" Drill 17/32" Drill	7/32" Allen Drive Socket or Wrench	
	Center Punch	9/16" Crescent and/or Box Wrench	
	Clamping Pliers	Needle-nose Pliers	
	Plastic Rivet Removal Tool	Phillips and Flat Screwdrivers	

Installation Notes: Terms may be used in the body of the instructions that you may not be familiar with, if you have any questions feel free to call us at 916-631-8071 M-F 8:00 AM – 5:00 PM PST, or email techhelp@metalcloak.com

HOW TO USE THIS GUIDE: The installation guide contains ALL steps for installing your front fenders. Please read and follow the instructions in order of each page top to bottom.

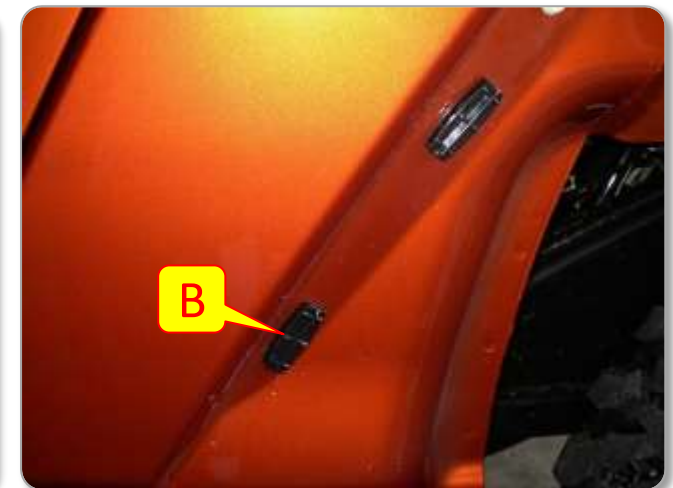
Images: Pictures are provided and parts are labeled throughout the instructions. Each text box contains guidance based on the pictures next to it. The text will refer to alphabetical labels (A, B, etc) found in the images.

QUESTIONS: Any questions or comments about the instructions? Call us at 916-631-8071 M-F 8:00 AM – 5:00 PM PST.

Phase 2: JEEP Preparation

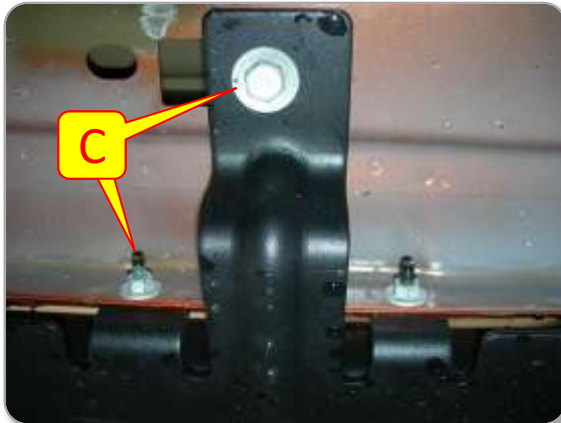
Step 1: Remove Stock Fender and Inner Fender Well

Remove stock Fender and Inner Fender Well. You will need to remove 5 plastic rivets inside the Well [●]. If you do not have a Rivet Removal Tool a Flat-head Screwdriver or pair of Needle-nosed Pliers will work in a pinch [A]. Pull the Fender up-and-out away from the Jeep to separate the Fender from the Tub. Do not worry about breaking the plastic retaining clips; they will not be reused. Use a pair of pliers to remove any clips that do not come out with the Fender [B]. Set the stock Fender and Fender Well aside.

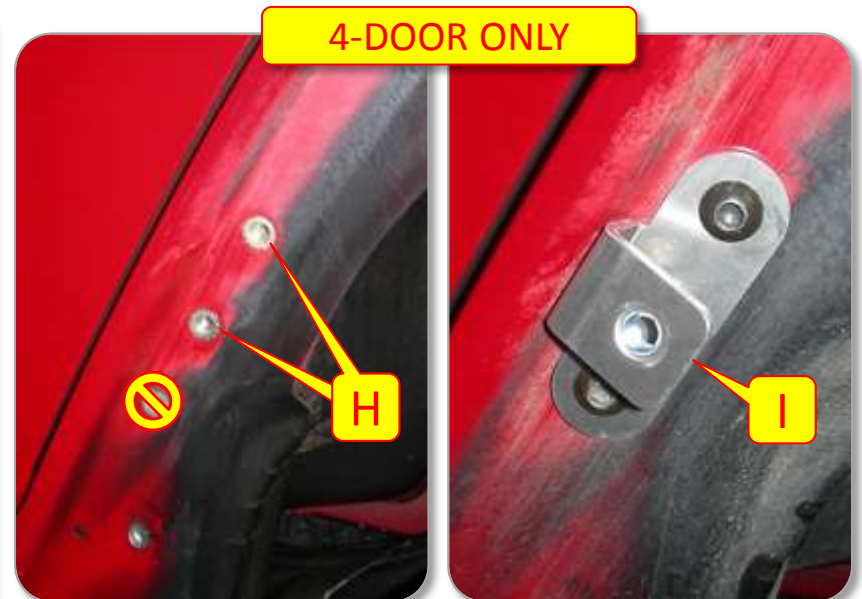


Phase 2: JEEP Preparation

Step 2: Prepare Jeep for Fender Installation Template



- C. If you have a stock rocker use a 10mm Socket to remove the stock nuts, and a 13mm Socket to remove the stock bolt on the underside of the rocker. For the 2-Door models there are 2 positions as shown, and 3 on the 4-Door.
- D. Remove stock rear light using a Phillips head Screwdriver [only the inside 2 screws].
- E. *OPTIONAL STEP: Tape side fender panel to prevent scratching the paint.*
- F. *OPTIONAL STEP; NOT SHOWN: Many customers paint the fender well with an automotive grade rubberized underseal or other liner material for added protection.*
- G. Install 3/8"-16 Rivet Nuts in the 2 stock holes shown (for additional instructions and notes on Rivet Nuts, see our separate Rivet Nut Installation Guide).
- H. *4-DOOR ONLY:* There are three stock holes on the front of the fender opening. Install 3/8"-16 Rivet Nuts in the upper 2 holes (DO NOT install in the bottom position).
- I. *4-DOOR ONLY:* Use 3/8"-16 x 0.75" Socket Button Screws to install the provided Rear Mount Plate Bracket into the Rivet Nuts.



Phase 2: JEEP Preparation

Step 3: Align Drill Template & Mark Holes to Be Drilled

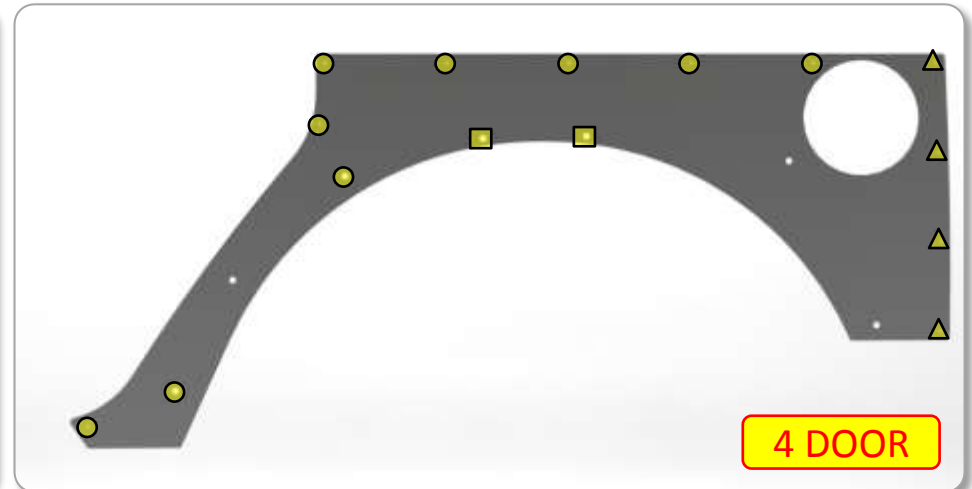
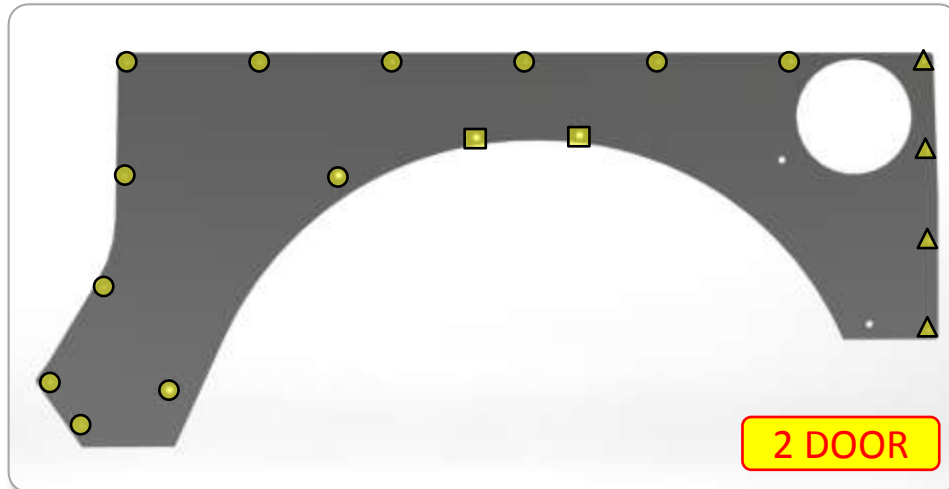
- J. Hang the drill template using the provided 3/8"-16 x 4" Socket Button Screws; partially thread 2 Screws in the rear holes where you installed the Rivet Nuts, and 2 more through the stock holes at the top of the wheel well arch. These Screws help to align the template, and hold it in place while you mark or drill all the other holes. Clamp the template in place. *4-DOOR ONLY: you can also install a 3/8"-16 x 3/4" Screw through the Template into the previously installed Rear Mount Plate Bracket.*
- K. Once the Template is aligned to your satisfaction:
PREFERRED METHOD: This is a best method for marking the locations of the holes that need to be drilled, but it does require a little extra work. Drive #6 Self-Drilling Sheet Metal Screws through all the 1/8" holes in the Template, directly into the Tub. Start in the center and work your way out, and then down. This has the double benefit of creating a pilot hole for your drills, and pulling the Template against the Tub as you work out, creating the closest possible alignment.
SIMPLER METHOD: Mark all the holes to be drilled, or use the 1/8" holes in the Template as a guide to drill the holes open with a 1/8" Drill. Start in the center and work your way out, and then down.
- L. Using the Template as a guide, use a Hammer and Punch to mark the 2 remaining holes on the inside surface where the stock flare mounted.



Phase 2: JEEP Preparation

Step 4: Prepare Jeep for Fender Installation

IMPORTANT NOTE: TAKE YOUR TIME! Drill holes according to the diagram below. The more precise you are in locating and drilling the Rivet Nut holes in the tub, the more easily the Fender Base will bolt into position. Remember to step up in drill size, starting at 1/8" and moving up to the appropriate size [M, bottom of page]. *Moving directly to the final drill size is STRONGLY DISCOURAGED; the stock sheet metal is very thin and the drill can easily catch and rip instead of drilling cleanly and providing a clean, centered finish hole.* Be sure to drill through all layers of sheet metal to account for the depth of the Rivet Nuts (especially in the front by the rocker).



- Drill to 17/32"; pre-drill at 1/8" and work up
- ▲ Drill to X (or 13/32"); pre-drill at 1/8" and work up
- Drill to X (or 13/32"); remove template & open stock holes

- Install 3/8"-16 Rivet Nuts
- ▲ Backed by 3/8"-16 Nylon Lock Nuts

RECOMENDED STEP: To prevent rust, paint the drilled holes with primer or a matched paint. Using a 'Q-tip' to apply the paint is useful to prevent overspray.

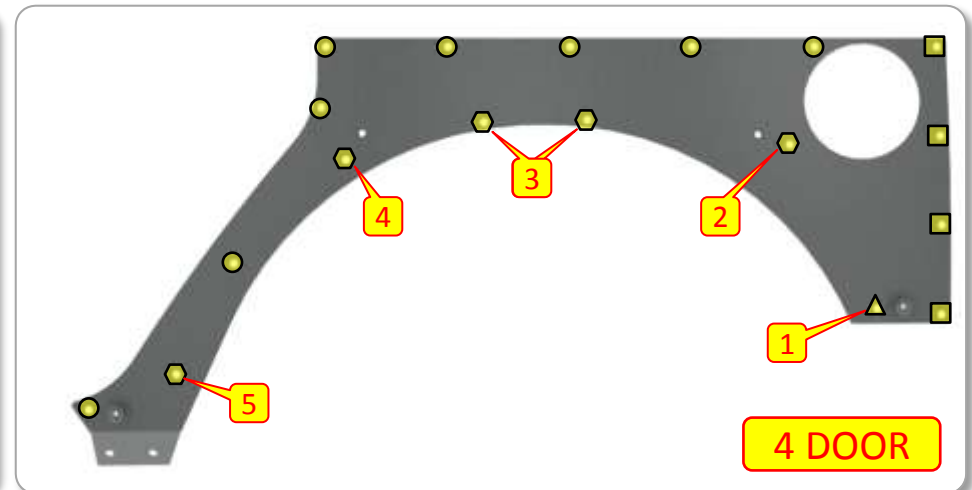
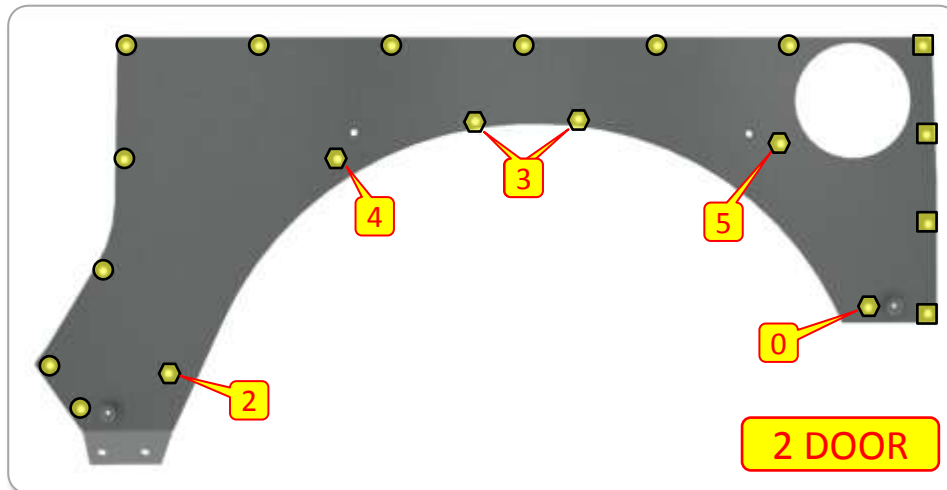


Phase 2: JEEP Preparation

Step 4: Prepare Jeep for Fender Installation (cont'd)

Once all of your 3/8"-16 Rivet Nuts are installed, install the 3/8"-16 x 0.75" Socket Button Screws [●], but do not fully tighten. Check to ensure all other the 3/8"-16 Socket Button Screws [■, ▲, ◆] have enough clearance. Note any holes that are too tight or misaligned.

- 3/8"-16 x 0.75" Socket Button Screws
- 3/8"-16 x 1" Socket Button Screws
- ▲ 3/8"-16 x 1.25" Socket Button Screws
- ◆ 3/8"-16 x 2.25" Socket Button Screws



Two sets of aluminum Stand-offs are provided and go between the Rear Base and the stock fender. They are marked 0 thru 5 by grooves, with #3 being used twice. The Stand-off kit is different for the 2-door and 4-door, as shown above [X]. Extra washers are provided to use as shims if the spacers are loose; figure which spacers need washers before removal of the Base.

Tighten the front 3/8" Screws enough to pull the Base against the tub. Have a friend press the bottom flange into position and punch the locations. *If you are working alone, with a little care and creativity you can clamp the base tight against the tub. You will remove the Base to install these 3/8"-16 Rivet Nuts.*



Phase 3: Base Installation

Step 5: Install Fender Base

- N. The 3/8"-16 x 4" Screws can be helpful in adjusting misaligned Rivet Nuts; where possible, use these long Screws to bring Rivet Nuts into alignment while the Base is in place. Remove the Base (if needed, slot any holes where you were unable to bring the Rivet Nuts into alignment; touch your work up with paint to prevent rust).
- O. Install the two lower 3/8"-16 Rivet Nuts marked on the previous step.
- P. Re-install the Fender Base, this time installing all hardware. Washers are provided to back all 3/8"-16 Nylock Nuts. Hand-tighten all hardware to ensure proper fit first; once aligned fully tighten all hardware. *REMEMBER the internal spacers! Also, DO NOT force any hardware; replacing cross-threaded or stripped Rivet Nuts is frustrating and time consuming! If needed, chase Rivet Nuts with a 3/8"-16 cut tap.*
- Q. Install the Flare using the provided 3/8"-16 x 1.75" Socket Countersunk Screws [●], and 3/8"-16 x 0.75" Socket Button Screws [▲] on the inside brackets of the Flare. *REMEMBER to use anti-seize on the stainless hardware!*
- R. Re-install the stock rear light, simply reversing the steps for removal.



Enjoy your new MetalCloak
Overline Rear Tube Fenders!

Questions? Comments?
Call (916) 631-0871
Monday-Friday, from 8am-5pm

NO.	PART NUMBER/DESCRIPTION	QTY.
1	WM-3100-D WELDMENT, BASE PLATE REAR FLARE, DRIVE JK UNL	1
2	WM-3100-P WELDMENT, BASE PLATE REAR FLARE, PASS JK UNL	1
3	CP-3305 REAR MOUNT PLATE BRACKET, JK	2
4	CP-3310 STANDOFF, REAR MOUNT PLATE, JK	2
5	CP-0079 INSTALLATION TOOL, .375-16 RIVET NUT	1
6	CP-3301 TEMPLATE, REAR MOUNTING PLATE JK UNL	1
7	FA-0057 RIVET NUT, .375-16 OPEN END ZYC PLTD	30
8	FA-0004-BZ SBHCSCREW, .375-16x.75L GR 8 BLACK ZINC	28
9	FA-0004 SBHCSCREW, .375-16x.75L 18-8 SS	4
10	FA-0083-BZ SBHCSCREW, .375-16x2.0L GR 8 BLACK ZINC	6
11	FA-0053 HEX NYL LOCKNUT .375-16 .45TH ZNC PLT STL	12
12	FA-0009 WASHER, .41ID X .81OD X .051TH 18-8 SS SAE	20
13	FA-0087-BZ SBHCSCREW, .375-16x2.25L GR 8 BLACK ZINC	4
14	FA-0005-BZ SBHCSCREW, .375-16x1.25L GR 8 BLACK ZINC	2
15	FA-0018-BZ SBHCSCREW, .375-16x1.0L GR 8 BLACK ZINC	8

