



## PRODUCT: JL Front Inner Fender Wells

REV: C | 10-05-2022 | II-6290

**READ INSTRUCTIONS IN FULL BEFORE INSTALLATION.**  
**QUESTIONS? CALL 916-631-8071 M-F 7:00 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.

## Section 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

8MM Socket    10MM Socket  
9/16" Socket



5/16" Step Up Bit  
17/32" Drill Bit

7/32" Allen Drive Socket or Wrench  
5/32" Allen Drive Socket or Wrench



Drill

9/16" Box Wrench  
11/16" Box Wrench



Plastic Rivet Removal Tool  
or Flat-head Screwdriver

**HOW TO USE THIS GUIDE:** The installation guide contains ALL steps for installation. Please read and follow the instructions in order of each page from top to bottom, and left to right.

**Jeep Model:** Instructions may apply to multiple Jeep models, but are labeled separately where appropriate (i.e. TJ vs. LJ).

**Options:** Because of the number of component options we offer, these instructions may contain steps that will not match your particular configuration. You can skip these steps.

**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.

**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 contact us at the number below, or email [techhelp@metalcloak.com](mailto:techhelp@metalcloak.com)

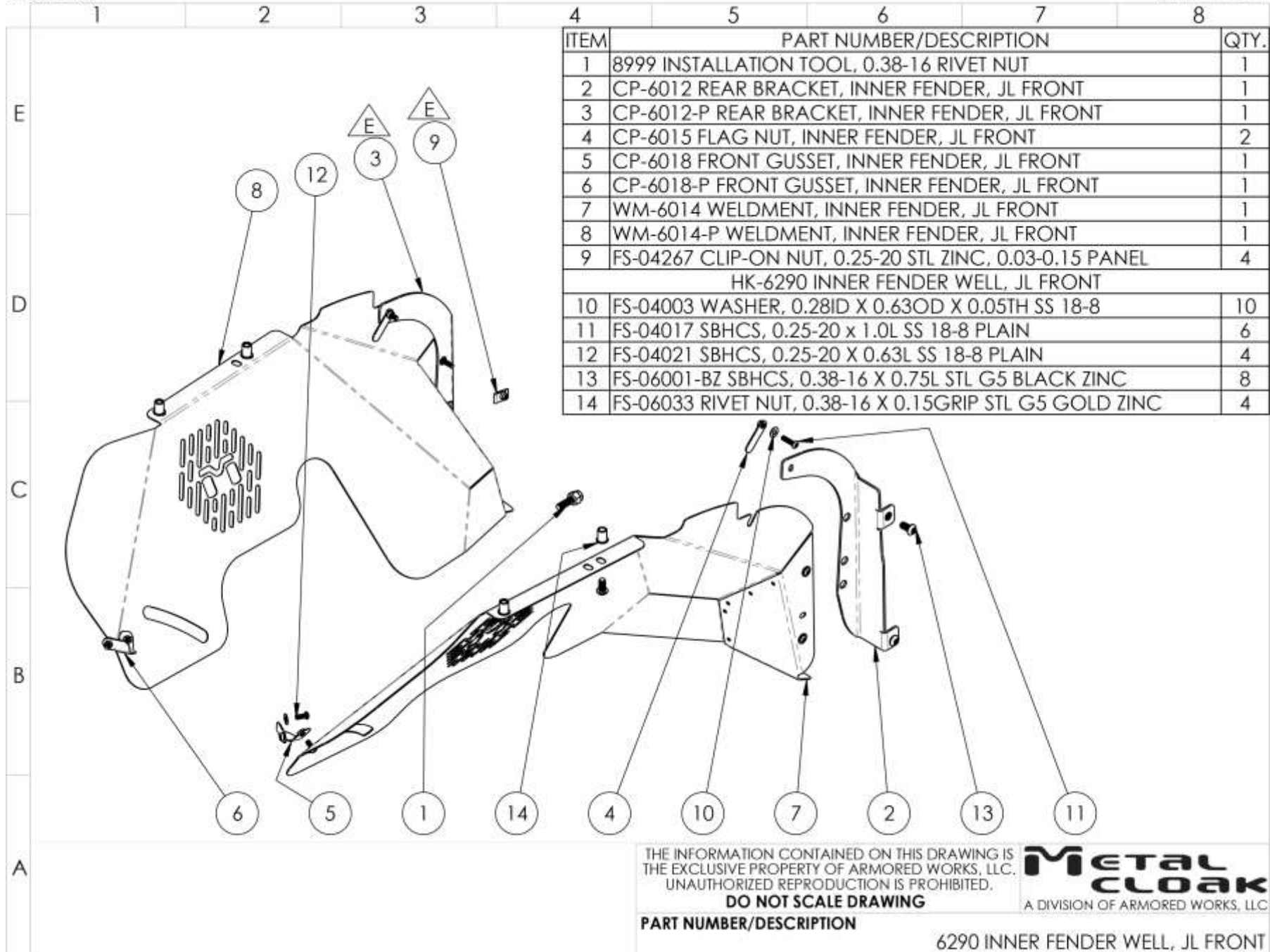
**QUESTIONS:** Any questions or comments about the instructions? Call us at 916-631-8071 M-F 7:00 AM – 5:00 PM PST.

# Section 2: Product Components



DC-0001 REV A

SHEET 1 OF 1



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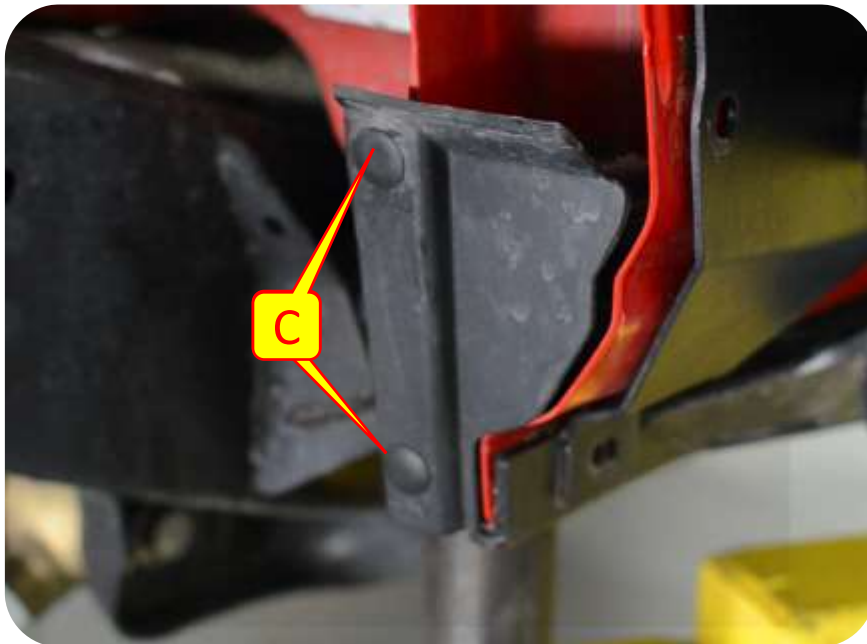
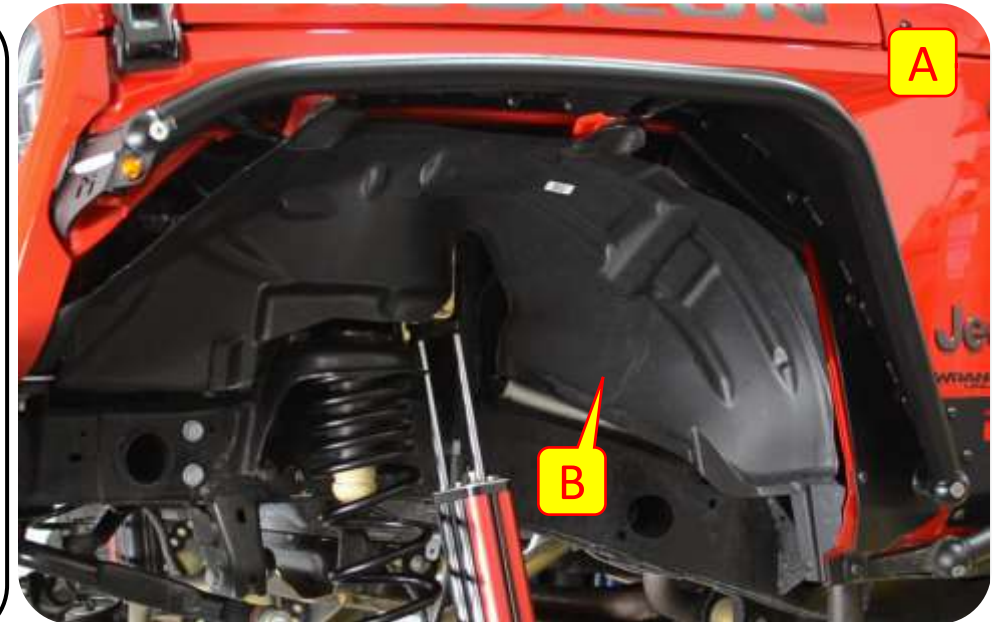


**PART NUMBER/DESCRIPTION**  
 6290 INNER FENDER WELL, JL FRONT

## Section 3: Installation Instructions

### Step 1: Remove Front Stock Fender and Inner Fender Well

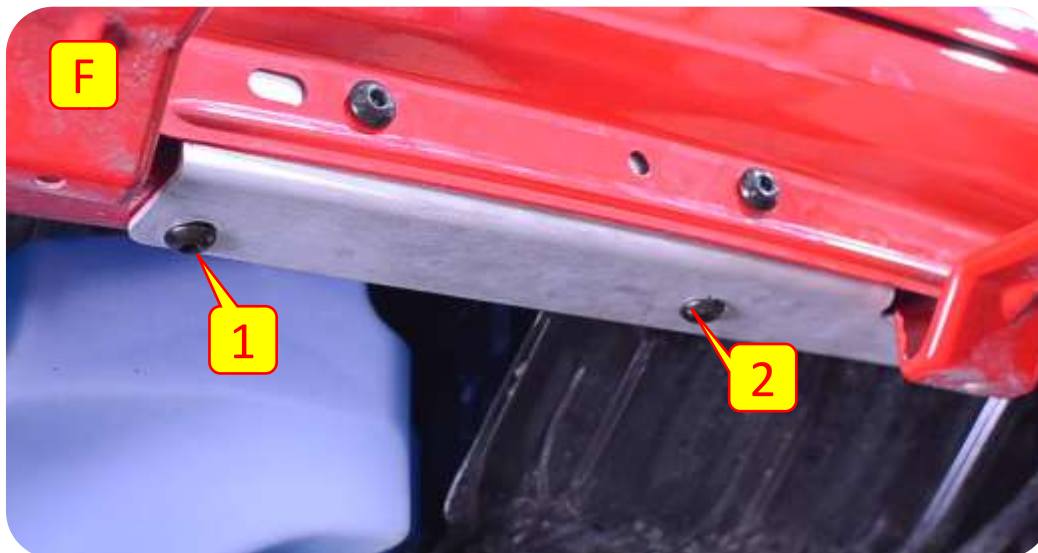
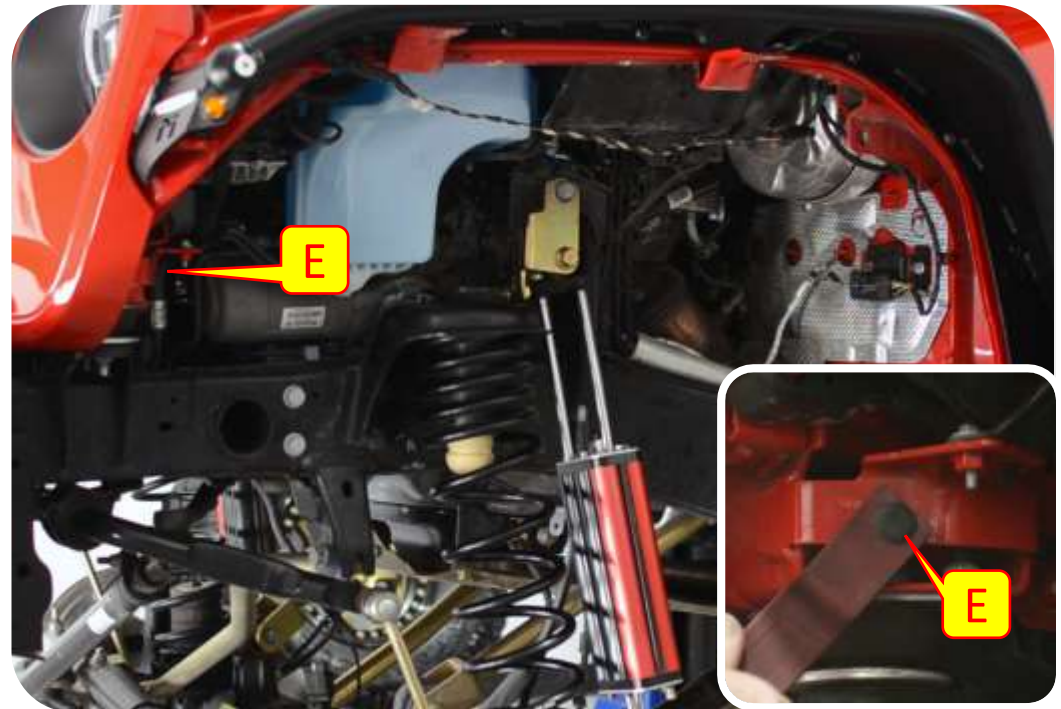
- A. Using 8mm and 10mm sockets and wrench remove the stock inner fender well bolts.
- B. Remove the plastic rivets. You may choose to cut these off or drill out if you do not have a plastic rivet removal tool readily available. Remove the stock inner fender well.
- C. disconnect the factory mud guard by removing the two plastic rivets. **Save the plastic rivets and the factory mud guard.**
- D. Disconnect the wiring harness from the jeep side panel. Cut off plastic rivets.



## Section 3: Installation Instructions

### Step 2: Preparation for Fender Well Installation

- E. Removed the front plastic rivet located behind the front grill.
- F. Disconnect the front two bolts on the underside of the fender bracket using a  $7/32$ " allen wrench.
- G. Using a  $7/32$ " allen hex head and a  $9/16$ " wrench remove the button head bolts located on the rear of the MetalCloak Fender.



## Section 3: Installation Instructions

### Step 3: Fender Well Bracket Installation

**Note:** On the passenger side of some models (4XE) specifically you will want to REMOVE the attachment to the PLASTIC HOUSING FROM FENDER; This will be reinstalled later.

- H. Using a 5/16" step up bit drill out the two rear tabs in preparation for the inner fender rear bracket and install the provided clip-on nuts.
- I. Install the lower button head bolt and swivel the rear fender well bracket into place.
- J. Install the upper button head bolt hand tight. Do not Fully Tighten.



## Section 3: Installation Instructions

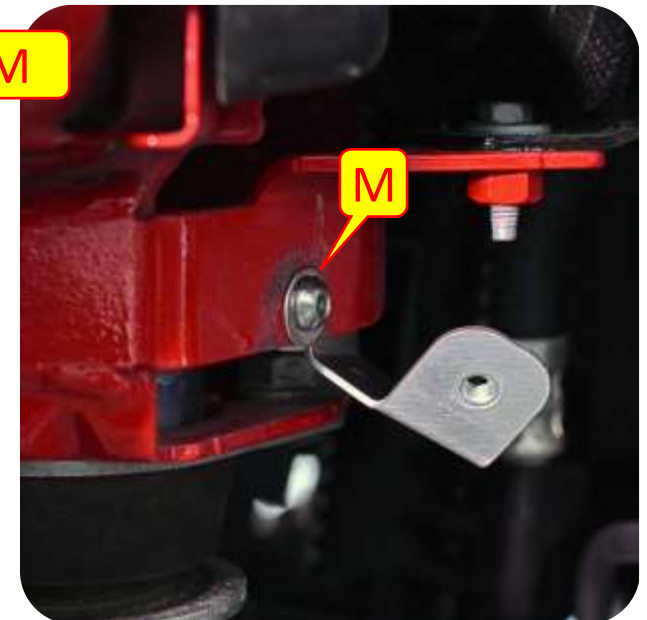
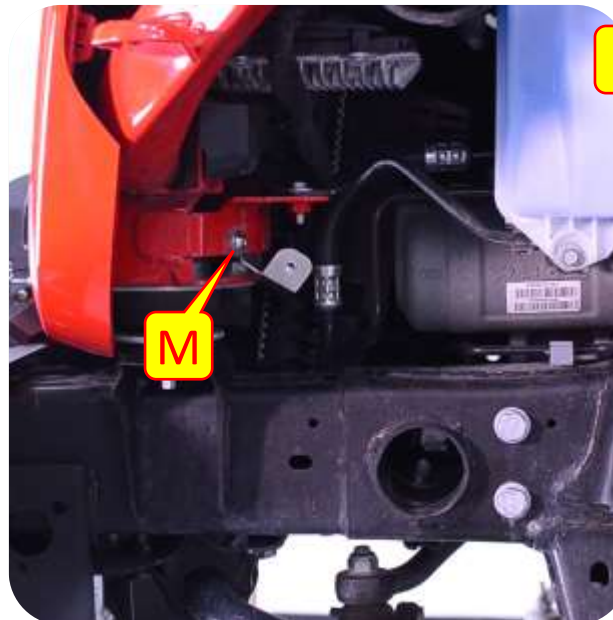
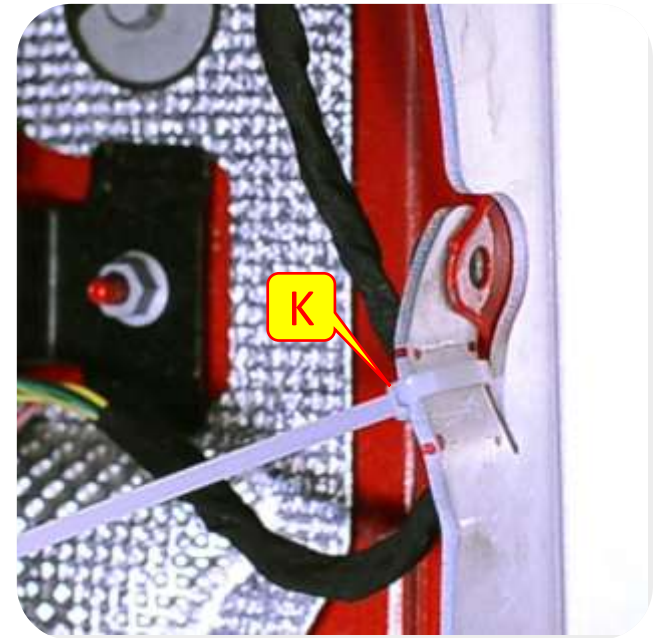
### Step 3: Fender Well Bracket Installation

K. Zip Tie the wiring harness safely out of the way.

**Important Note:** *On the passenger side of some models there are two wiring harnesses. MetalCloak recommends zip tying the harnesses together then zip tying the harnesses to the fender well bracket.*

L. Install the top of the bracket by using the flag nut, washer and bolt. Do not fully tighten. *If installing on a 4xE this is the time to reattach the plastic housing to the fender.*

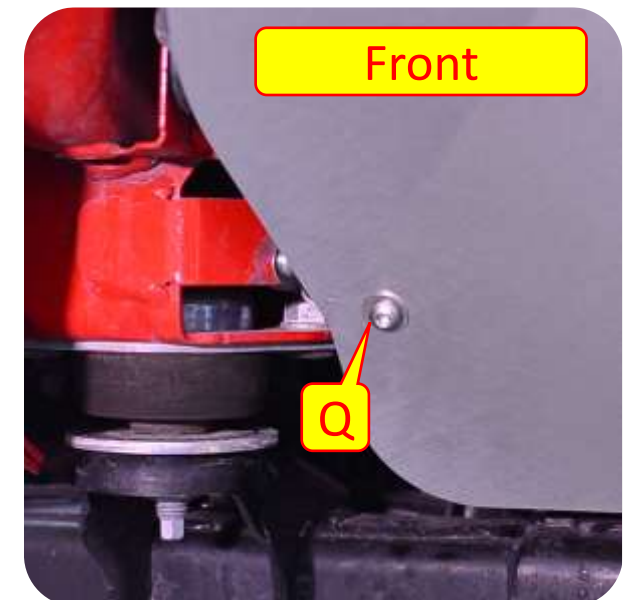
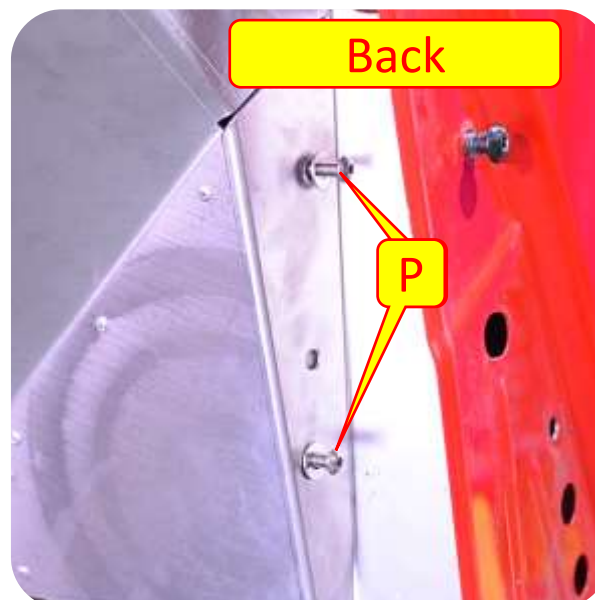
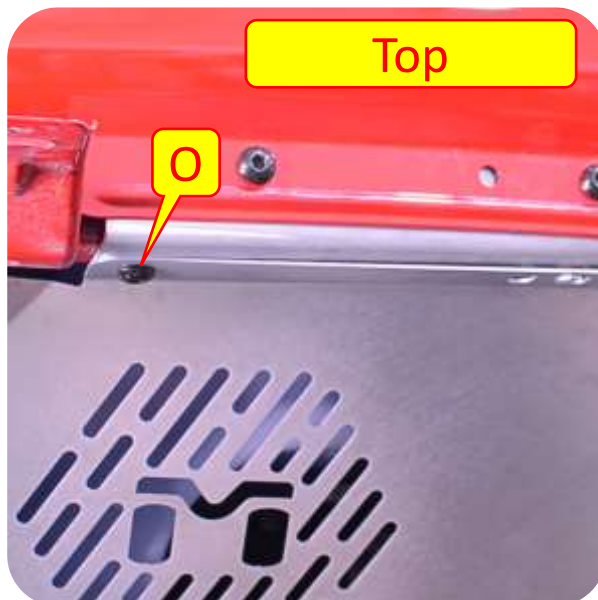
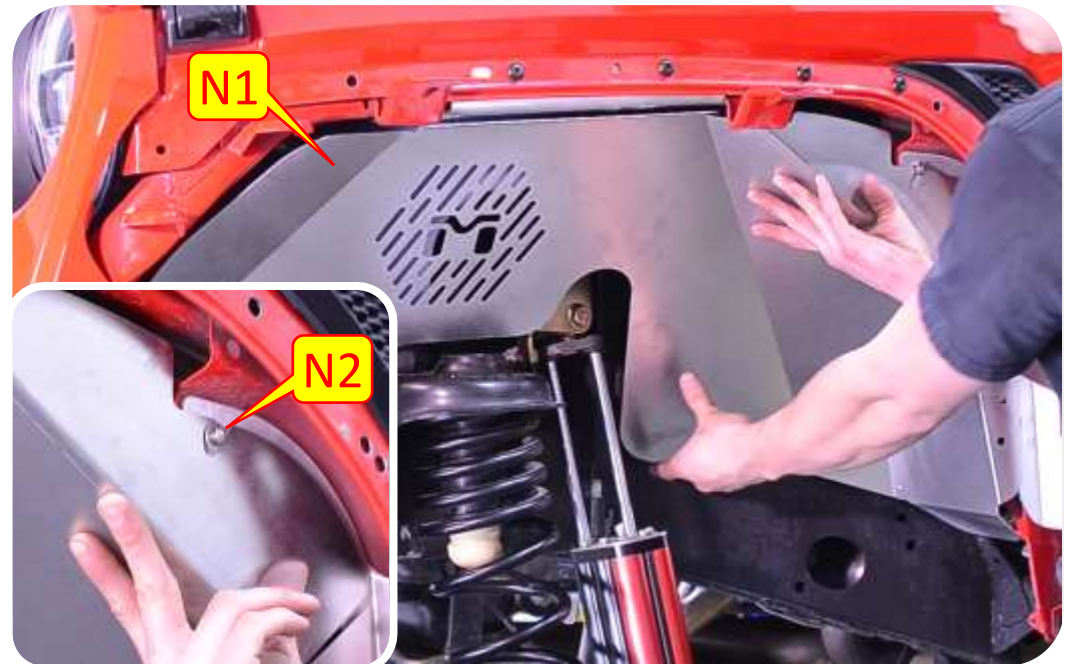
M. Install the provided gusset in the front location behind the grill (location where we removed the plastic rivet on step E). Use a 5/32" allen socket to tighten the bolt snug.



## Section 3: Installation Instructions

### Step 4: Front Fender Well Installation

- N. Install the Front Fender Well making sure the top bolt in the rear bracket is inserted into the slot located on the fender well.
- O. Install the fender bracket button head bolts to help secure the fender well into place.
- P. Install the rear fender well bolts and washers.
- Q. Install the front fender well bolt and washer to the gusset.





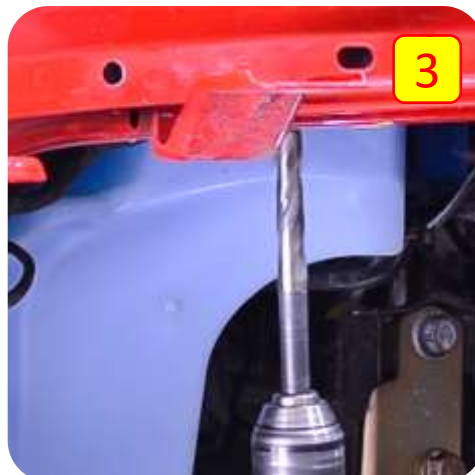
## Section 3: Installation Instructions



**Important Note:** The following steps on this page are for those who do not have MetalCloak's Front Fenders. If you have MetalCloak's Front Fenders you will not have to do these steps and can move on to page 11.

**Important Note:** You will be drilling through hardened steel. (*\*don't be surprised that it is difficult to drill through*) MetalCloak recommends drilling a small pilot hole and to then use a step bit up to 17/32". Apply pressure and use low RPMs; high drill speed will cause excessive heat dulling the bit and can cause your drill bits to break.

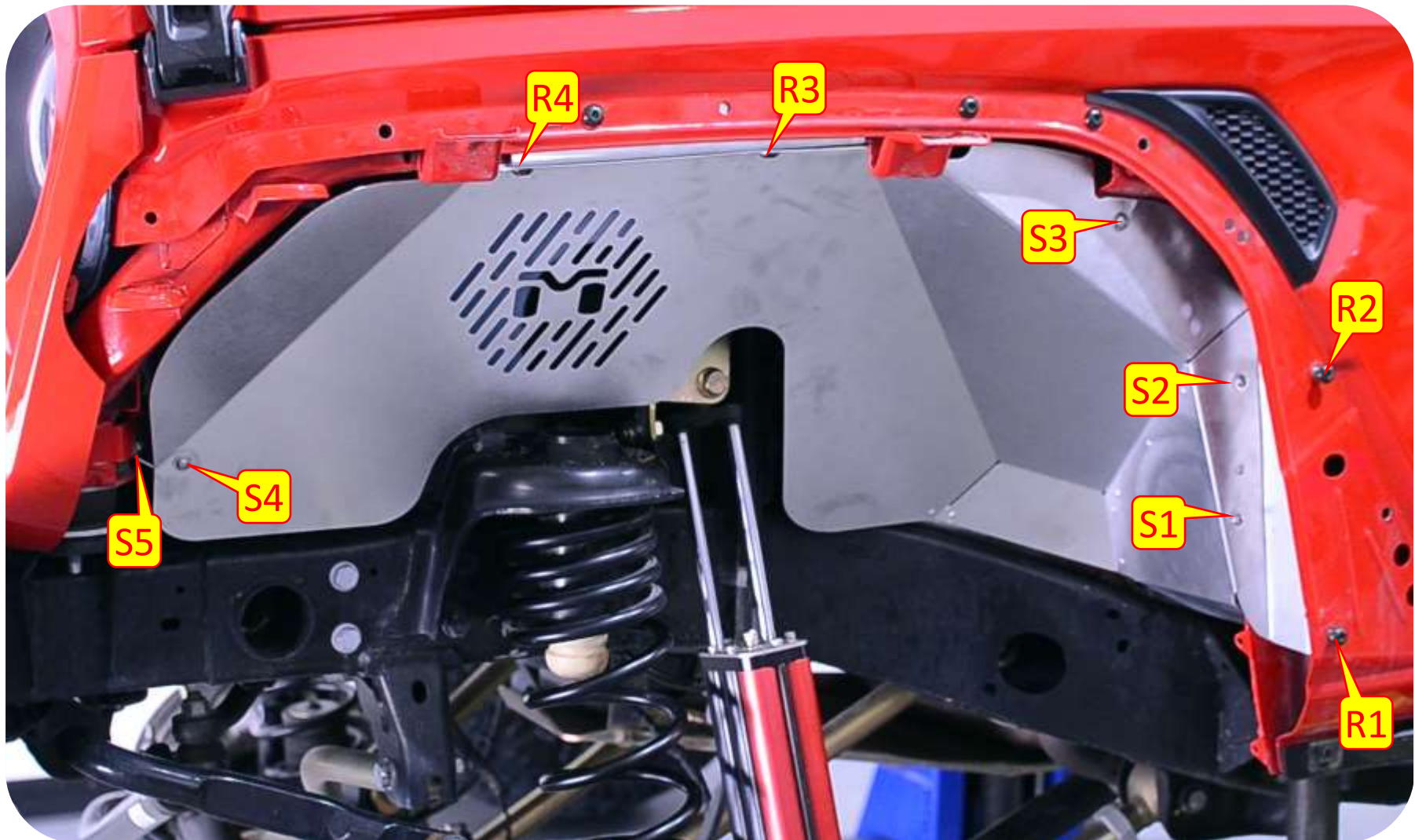
1. Mark, Center punch, and drill out the holes that need to be added. Make a pilot hole using a small drill bit.
2. Remove the front fender well.
3. Slowly increase the size of the drill bit finishing with the 17/32" drill bit. Working up in size will help keep your hole placement centered.
4. Use a 11/16" box wrench and a 9/16" socket or box wrench to Install rivet nuts using the provided rivet nut tool.
5. Return to page 9 to see front fender well installation.



## Section 3: Installation Instructions

### Step 4: Front Fender Well Installation

- R. Tighten all the button head bolts using a 7/32" allen hex socket or wrench.
- S. Tighten all the fender well bolts using a 5/32" allen hex socket or wrench.



## Section 3: Installation Instructions

### Step 5: Factory Mud Guard Installation

**Note:** MetalCloak recommends reinstalling the factory mud guard.

- T. Before reinstalling the factory mud guards sand or cut the plastic protrusions located at the top of the guard.
- U. Reinstall the mud guard using the factory plastic rivets.

