



METALCLOAK

INSTALLATION INSTRUCTIONS

PRODUCT: 3/8" RIVET NUT INSTALL INSTRUCTIONS

REV: A | 01-24-2011 | II-0079

**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" Socket



9/16" Combination Wrench
11/16" Combination Wrench

Professional Rivet Nut
Installation Tool



MetalCloak Rivet Nut
Installation Tool (CP-0079)



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

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

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: Prepare for Installation

IMPORTANT NOTE: These instructions are generic, and the following assumptions were made:

- 1) You will be installing 3/8"-16 Rivet Nuts (though the methods are applicable to other sizes).
- 2) You have the appropriate Rivet Nut for the thickness of material where the nut will be installed.
- 3) The holes for installation are already drilled. *As a friendly reminder, if you are drilling thin material it is best to start with a small drill—1/8" or less—and work your way up to the needed drill size.*

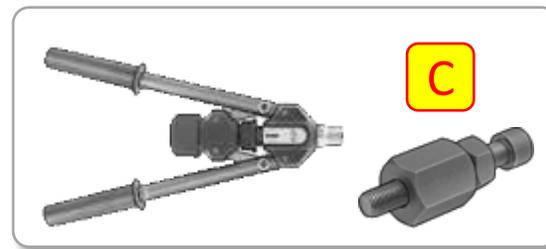
Step 1: Determine your Rivet Nut installation method.

There are multiple styles of Rivet Nut Installation Tool (shown with Rivet Nut):

- A) MetalCloak includes an Installation Tool (CP-0079) with every product that uses 3/8"-16 Rivet Nuts.
- B) In our own shop, we prefer a T-handle style Rivet Nut Installation tool. This is readily available from McMaster-Carr (mcmaster.com), and you need both the Nut Insert Tool (98590A100) and the 3/8"-16 Mandrel (9850A555).
- C) Others styles are available including 'plier-style' and 'pro' versions of our provided tool, but are not demonstrated here.



MAKE SURE YOU HAVE ENOUGH THREAD ENGAGEMENT! Ensure you have **AT LEAST 3 FULL TURNS** of threads before proceeding [D]. When using the T-handle, you may need to swap the provided Mandrel screw for a longer, hardened steel, Socket Cap Screw. **DO NOT USE** a softer material as the screw may strip.



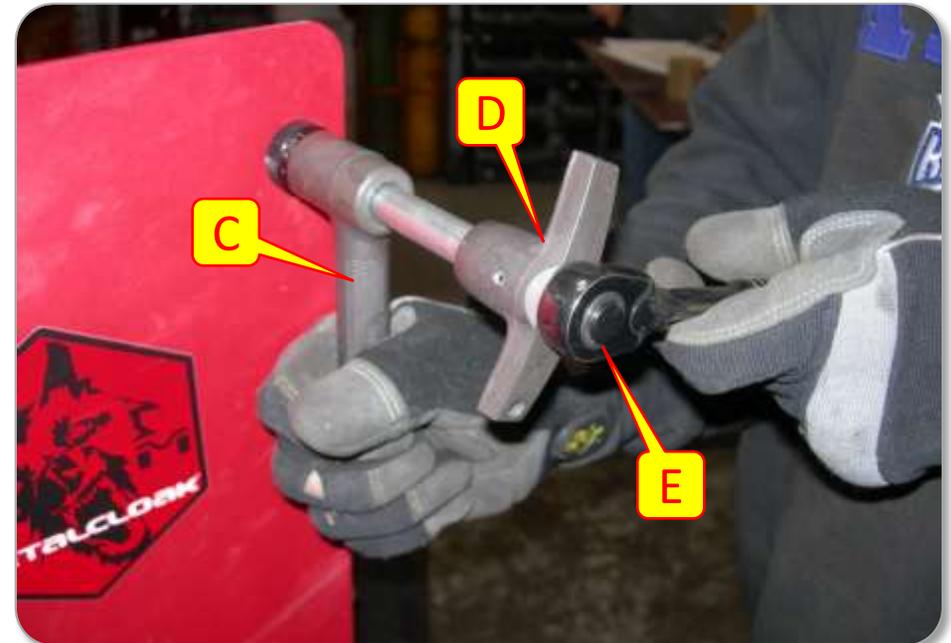
Phase 3: Rivet Nut Installation

Step 2: Install Rivet Nut

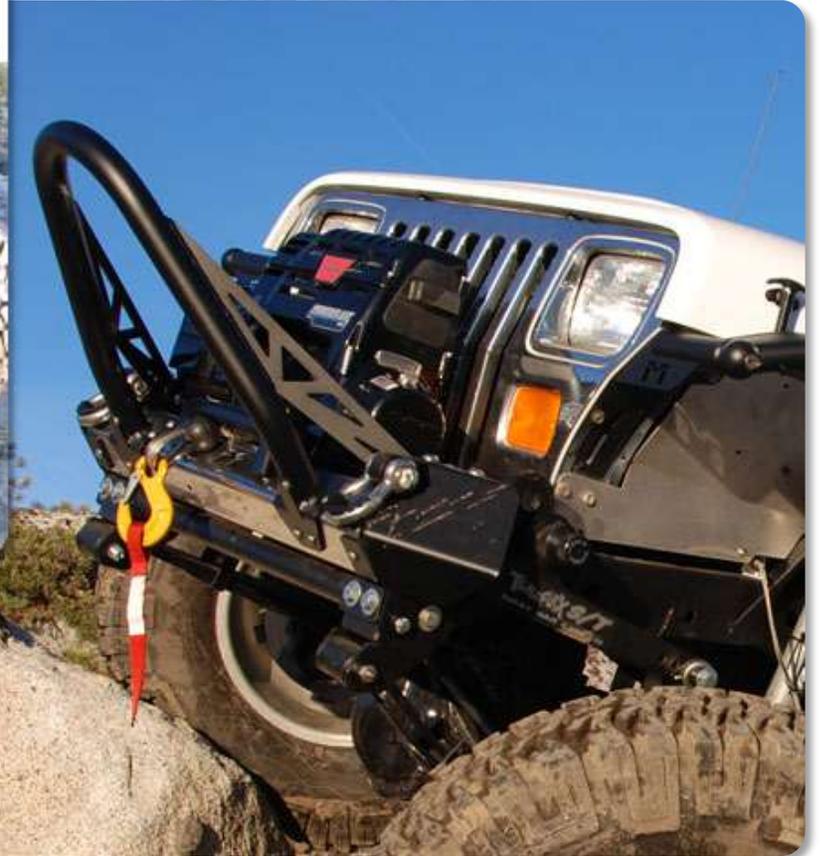
Installation is very simple, but it is important to take your time to ensure proper alignment:

- 1) Using the MetalCloak Installation tool, assemble the tool with the Rivet Nut as shown on the previous page. DO NOT FORGET the 3/8" Lock Washer, or the Rivet Nut may spin during installation. The 17/32" hole should be snug on the Rivet Nut.
- 2) Use an 11/16" Wrench to hold the Drilled 3/8" Nut in place [A]. Turn the 3/8" Hex Cap Bolt *clockwise* with a 9/16" Socket or Wrench [B]. Having a second pair of hands is very helpful when using this method, as the second person can help keep the Rivet Nut aligned and fully pressed into place.
- 3) Tighten the hardware, but be careful not to over tighten as Rivet Nuts are more susceptible to stripping than a standard nut. You should feel a noticeable increase in resistance as the Rivet Nut "bottoms out" and fully crimps on the sheet metal.
- 4) Remove the 3/8"-16 Hex Cap Bolt by turning counter-clockwise; use the 11/16" Wrench to stabilize until the bolt spins freely.
- 5) Repeat as necessary until all Rivet Nuts are installed.

If using the T-handle tool, follow the same basic procedure as above, but you do not need multiple wrenches; the large handle [C] acts as the 11/16" Wrench, and the T-handle [D] acts as the 9/16" Wrench. A 1/4"-Drive Ratchet [E] is helpful for ease of installation (providing greater torque and ratcheting), but is not required.



Phase 4: Enjoy Your MetalCloak Product!



Remember to post your pic of your Frame-Built Bumper on your favorite forum and at [Facebook.com/metalcloak](https://www.facebook.com/metalcloak).

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