



PRODUCT: JL Wrangler 392 Resonator Skid Plate

REV: A | 03-12-2024 | II-6396

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

9/16" Socket
3/4" Socket
19mm Socket



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

1/8" – 17/32" Drill Bits



7/32" Allen Wrench

Drill



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, 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

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 B

SHEET 1 OF 1

	1	2	3	4	5	6	7	8						
	ITEM	PART NUMBER/DESCRIPTION			QTY.									
E	1	8999 INSTALLATION TOOL, 0.38-16 RIVET NUT			1									
	2	CP-3370 INSIDE STRAP, RESONATOR SKID, JLU 392			1									
	3	CP-3371 OUTSIDE STRAP, RESONATOR SKID, JLU 392			1									
	4	WM-6048 WELDMENT, RESONATOR SKID, JLU 392			1									
	5	WM-6049 WELDMENT, SKID STICK NUT, RESONATOR SKID JLU 392			1									
D	HARDWARE KIT													
	6	FM-12350 HHCS, M12-1.5 X 35L STL C10.9 GOLD ZINC			2									
	7	FS-06004 WASHER, 0.41ID X 0.81OD X 0.05TH SS 18-8			2									
	8	FS-06030 NYLOCK NUT, 0.38-16 X 0.45H STL GF ZINC			2									
	9	FS-06031 HHCS, 0.38-16 X 1.0L STL G5 ZINC			2									
	10	FS-06049 RIVET NUT, 0.38-16 X 0.31GRIP STL G5 GOLD ZINC			1									
	11	FS-06181 SFHCS, 0.38-16 X 1.00L SS 18-8 PLAIN			2									
	12	FS-08023 WASHER, 0.53ID X 1.06OD X 0.10TH STL ZINC			2									
	13	FS-08216 HHCS FLANGE, 0.5-13 X 1.5L STL G8 GOLD ZINC			1									
C														
B														
A	<div><div>THE INFORMATION CONTAINED ON THIS DRAWING IS THE EXCLUSIVE PROPERTY OF ARMORED WORKS, LLC. UNAUTHORIZED REPRODUCTION IS PROHIBITED.</div><div>DO NOT SCALE DRAWING</div><div>PART NUMBER/DESCRIPTION</div></div> <div><div>Metal Cloak</div><div>A DIVISION OF ARMORED WORKS, LLC</div></div> <div>6396 RESONATOR SKID SYSTEM, 392, JLU</div>													

Section 3: Installation Instructions



Step 1: Two Insert Transmission Skid Plate Modification

Note: If your transmission skid plate does not have three threaded inserts installed you must install the third threaded insert before installing the resonator skid plate system. If your transmission skid already has three inserts continue to page 6.

- A. Loosely install the skid plate in place using a jack stand to hold the skid plate in place making sure the retention tab is tucked up behind and supported by the trans skid.
- B. Hand tighten a single 3/8" bolt into the transmission skid plate.
- C. Hand tighten a 12mm bolt into the frame rail threaded insert.
- D. Mark the 3rd hole in the transmission skid and prepare for drilling.



Section 3: Installation Instructions



Step 1: Two Insert Transmission Skid Plate Modification

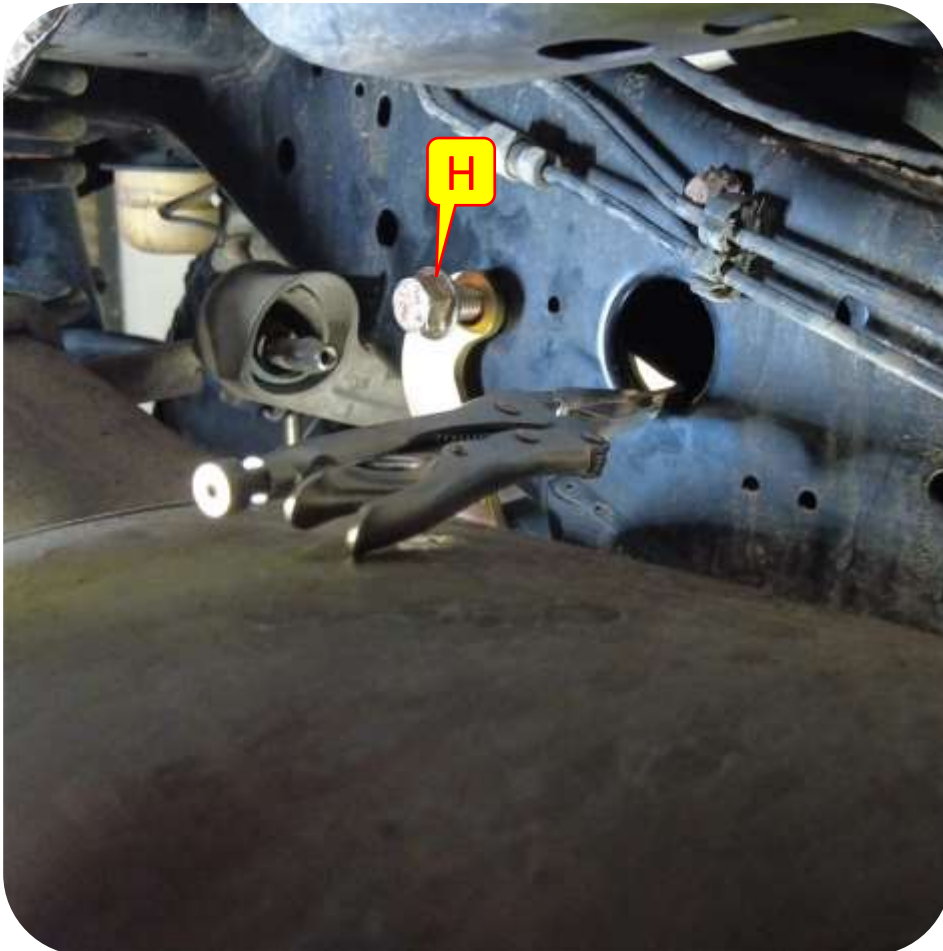
- E. Remove the resonator skid plate.
- F. Start a pilot hole with a 1/8" drill bit and step up to a 17/32" drill bit.
- G. Using the provided rivet nut tool install the rivet nut with a 11/16" wrench and 9/16" socket.



Section 3: Installation Instructions

Step 2: Install Resonator Skid Hanger Straps

- H. Install the outside strap (*BOM #3*) Mount using provided flag nut (*BOM #5*) and 1/2" bolt into the rear inside section of the frame rail using the large access hole located just above the resonator. Using a 3/4" socket just loosely snug the bolt.
- I. Install the Inside strap (*BOM #2*) using the provided 12mm bolt into the crossmember just ahead of the resonator, inside of the exhaust hanger pointing out towards the fuel tank. Using a 19mm socket you can tighten this bolt down.



Section 3: Installation Instructions



Step 3: Install the Resonator Skid Plate

- J. Loosely install the skid plate in place using a jack stand to hold the skid plate in place making sure the retention tab is tucked up behind and supported by the trans skid.
- K. Hand tighten the two 3/8" bolts into the transmission skid plate.
- L. Hand tighten a 12mm bolt into the frame rail threaded insert.

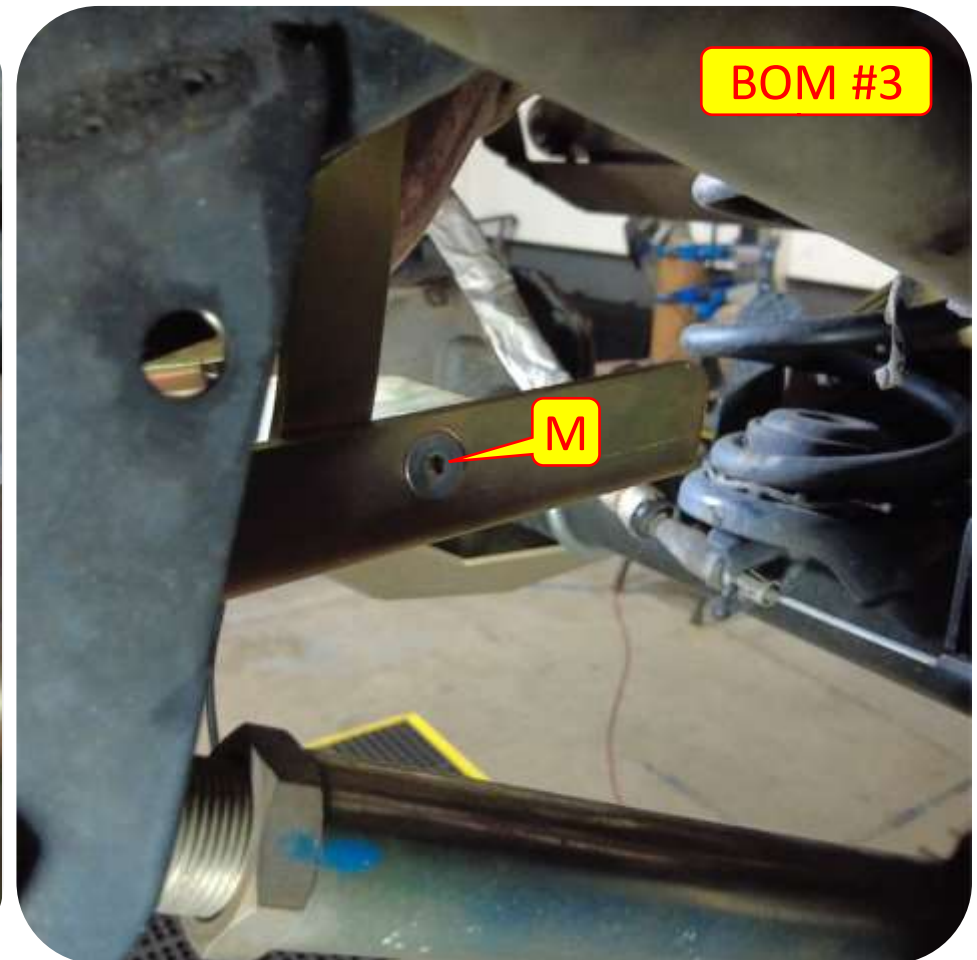
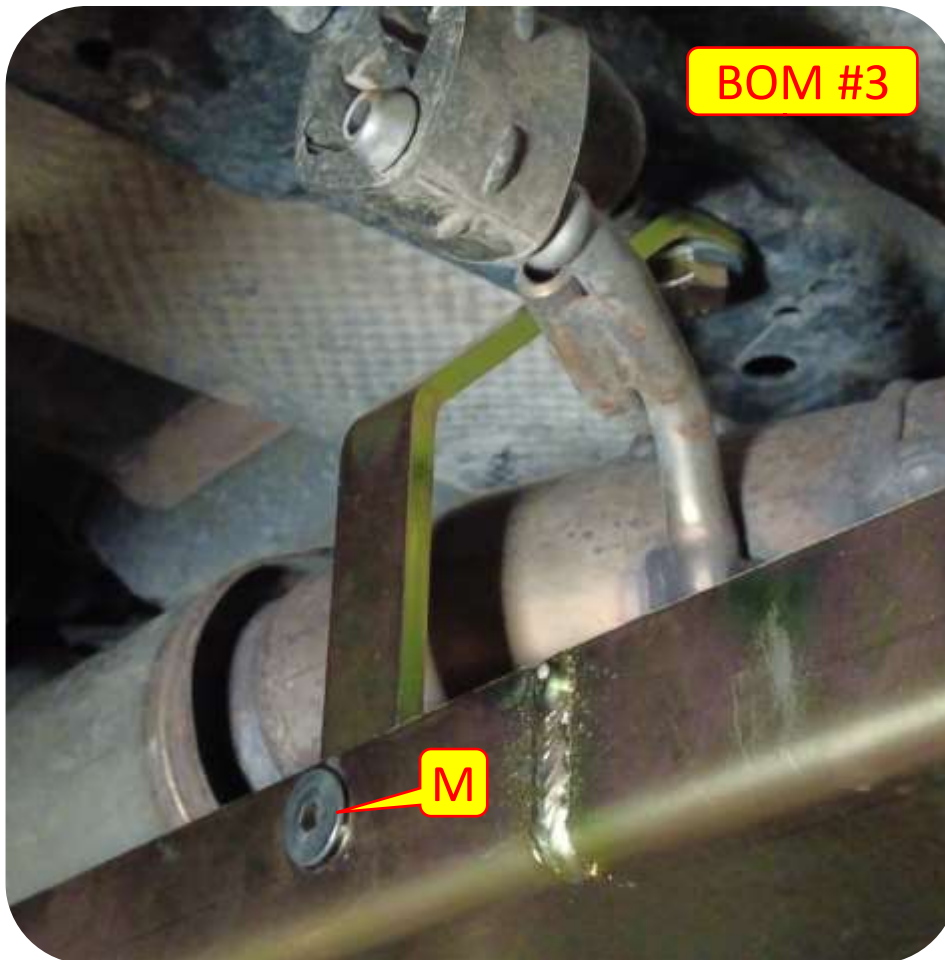


Section 3: Installation Instructions



Step 4: Tighten All Hardware

- M. Install the two 3/8" countersunk bolts using the 3/8" nuts into (BOM #2 & BOM #3) hanger straps and resonator skid. Fully tighten the countersunk bolts using a 7/32" Allen and 9/16 wrench.



Section 3: Installation Instructions

Step 4: Tighten All Hardware

- N. Using a 3/4" socket tighten the 1/2" bolt holding the outside strap (*BOM #3*) to the frame with the flag nut (*BOM #5*) above the resonator.
- O. Tighten down the two bolts going to the transmission skid using a 9/16" socket.
- P. Using a 19mm socket tighten down the 12mm bolt at the frame rail.

