



Installation Instructions



PRODUCT: JK Vacuum Pump Relocation Kit

REV: B | 07-01-2015 | II-3150

**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.



1/2" Ratchet

10mm Socket



Drill

7/32" Drill Bit



Wire Cutters

Wire Stripper/Crimper



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

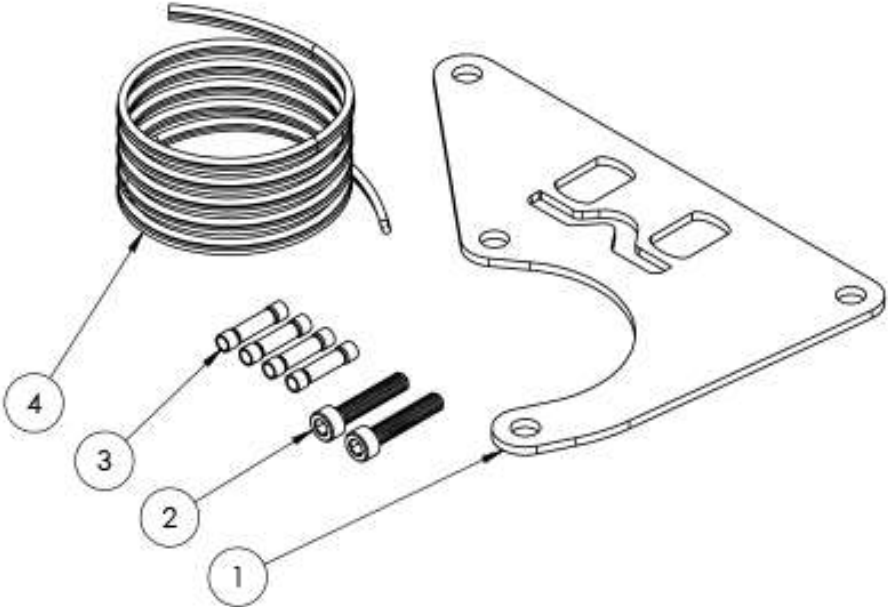
QUESTIONS: Any questions or comments about the instructions? Call us at 916-631-8071 M-F 7:00 AM – 5:00 PM PST.


Section 2: Product Components

DC-0001 REV A

SHEET 1 OF 1

ITEM	PART NUMBER/DESCRIPTION		QTY.
1	CP-3640 BRACKET, VACUUM RELOCATION, JK		1
2	FA-0111 SHCSCREW, M6-1.0 X 30MM 18-8SS		2
3	FA-1024 18-22GA BUTT SPLICE		4
4	FA-1025 WIRE, 18GA TWO-CONDUCTOR X 45IN		1

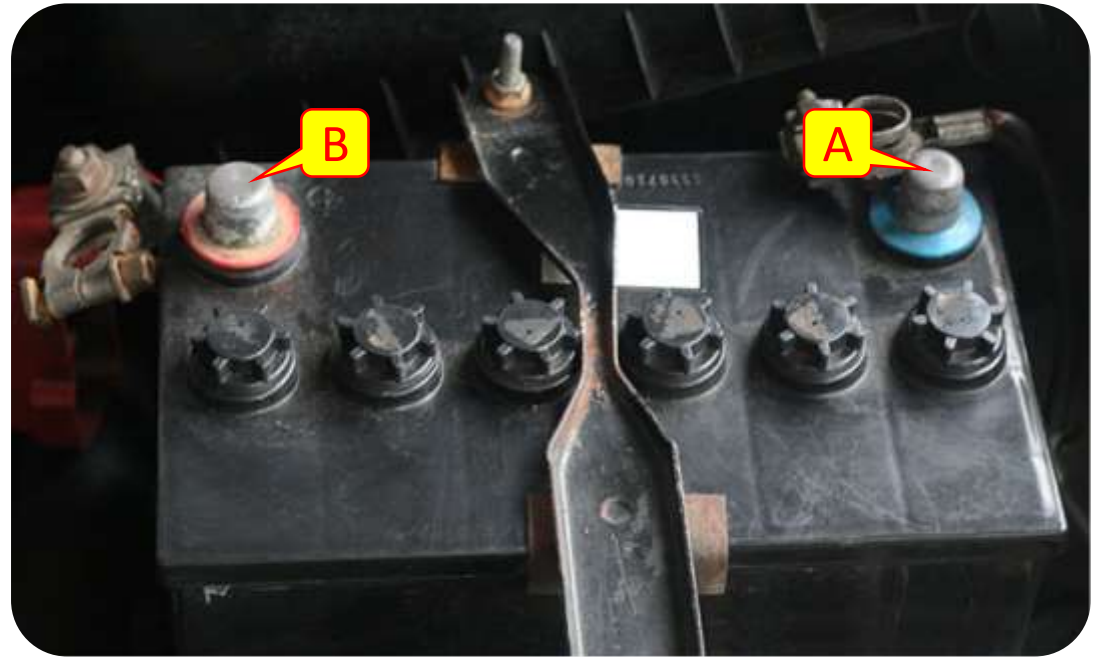


TOLERANCES UNLESS OTHERWISE SPECIFIED					THE INFORMATION CONTAINED ON THIS DRAWING IS THE EXCLUSIVE PROPERTY OF ARMORED WORKS, LLC. UNAUTHORIZED REPRODUCTION IS PROHIBITED. DO NOT SCALE DRAWING	 A DIVISION OF ARMORED WORKS, LLC
DIMENSIONS ARE IN INCHES	DECIMAL	FRACTION	ANGULAR	SURFACE		
ANGLES ARE 90 DEG UNLESS OTHERWISE SPECIFIED	.XX +/- .010 .XXX +/- .005	+/- 1/16	+/- 1 DEG	32		
CURRENT REVISION	[B][BAM][04/02/13] IN-HOUSE PRODUCTION				PART NUMBER	3150 VACUUM CANISTER RELOCATION, JK
PREVIOUS REVISION	[A][BAM][01/27/12] PRODUCTION RELEASE				DESCRIPTION	

Section 3: Installation Instructions

Step 1: Vacuum Pump Removal

- A. Disconnect the negative terminal of the battery.
- B. Disconnect the positive terminal of the battery.
- C. Remove the two mounting nuts using a 10mm socket to disconnect the pump from the stock bracket.
- D. Pop the green retainer clip off the quick disconnect to release the vacuum line from the pump.



Section 3: Installation Instructions

Step 1: Vacuum Pump Removal



- E. Pull the small intake hose from the pump.
- F. Remove the electrical connector and disconnect the harness.
- G. Pry out the connector clip and disconnect the vacuum hose.



Section 3: Installation Instructions

Step 1: Vacuum Pump Removal

- H. Separate the check valve and quick disconnect from the vacuum line.
- I. Remove approximately 3 ft. of factory large vacuum hose from split connector in engine compartment near PCM module so that you can reroute & reconnect the vacuum connector clip to the vacuum line.
- J. Using wire cutters remove the harness connector so you can reuse both the connector and the original wiring.



Note: Discard small vacuum pump exhaust hose. The new location for the vacuum pump will not require exhaust hose.



Section 3: Installation Instructions

Step 2: Vacuum Pump Relocation Wiring



- K. Strip back the wiring with wire strippers and extend using the provided butt connectors and crimp close.
- L. Route the wire to prevent any potential damage.

WIRING DIAGRAM



Section 3: Installation Instructions

Step 2: Vacuum Pump Relocation Wiring



- M. Use the butt connectors to connect the extension wire to the original wiring and crimp close.
- N. Use a zip-tie to secure new wiring to the Jeep.

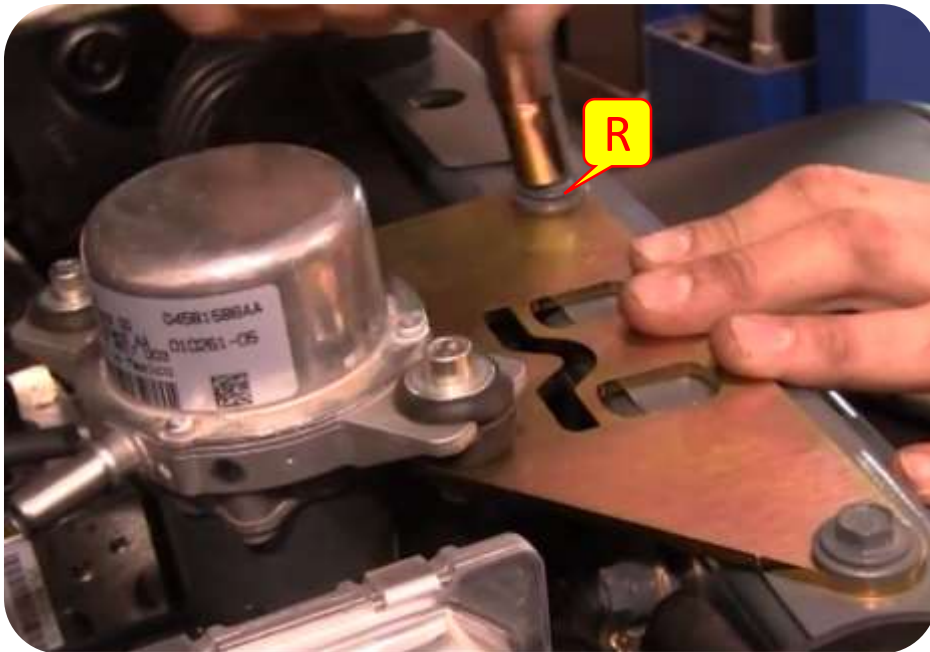
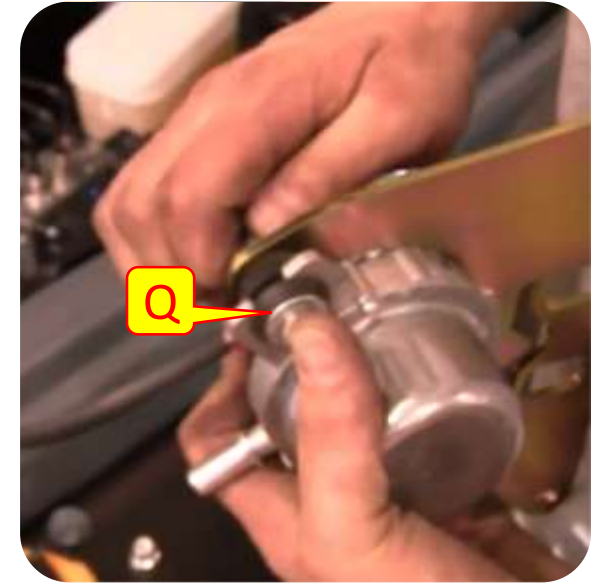
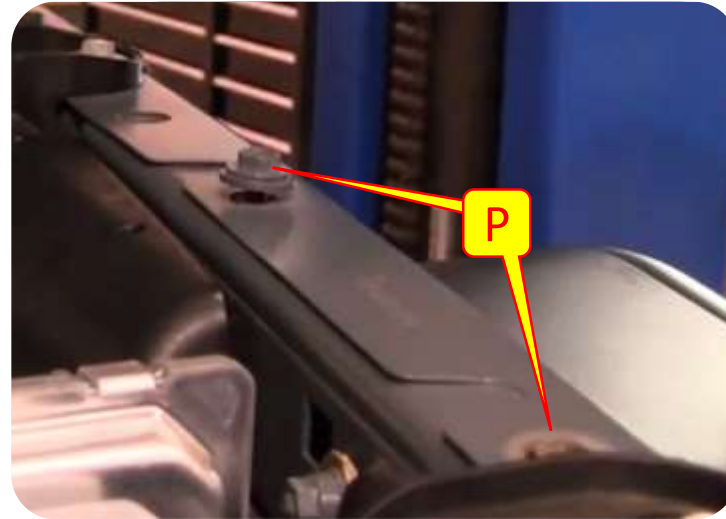


WIRING DIAGRAM



Section 3: Installation Instructions

Step 3: Install Vacuum Pump



- O. Drill two 7/32" holes for the harness plug in the plastic piece of the ABS mount.
- P. Using a 10mm socket remove the two upper fender bolts.
- Q. Using the original hardware attach the vacuum pump to the relocation bracket.
- R. Attach the relocation bracket using the two fender bolts and a 10mm socket.

Section 3: Installation Instructions

Step 3: Install Vacuum Pump

- S. Press the harness plug into the two drilled holes in the plastic piece of the ABS mount.
- T. Reconnect quick disconnect and intake hose.
- U. Pop the green retainer clip on the quick disconnect and use zip-ties on any loose wiring.
- V. Make sure all hardware is tightened and wiring is zip-tied to avoid potential damage.
- W. Reconnect the positive on the battery.
- X. Reconnect the negative on the battery.

