



PRODUCT: TJ/LJ Low Profile Led Light Kit

REV: E | 07-01-2015 | II-2208

**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.

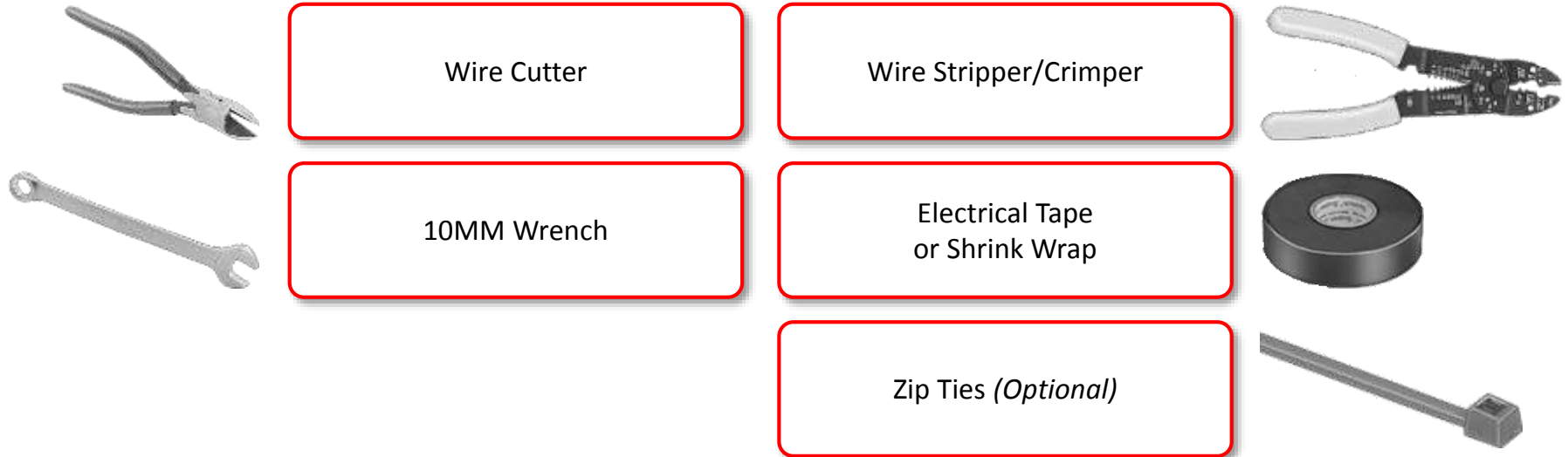
If you have any difficulties at all, please give us a call. Thank you and enjoy your MetalCloak Products!

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.



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: Pre-Installation

Step 1: **WARNING**

DO NOT CUT OFF ANY FACTORY PLUGS UNLESS INSTRUCTED!!!



Section 2: Pre-Installation

Step 1: Prepare Jeep Harness

- A. Locate the stock Side Marker light and remove the wires from the sheath. This light will have *only* 2 wires in the light (one is marker, the other is blinker).
- B. Cut the light off and strip the wire insulation on the wires (strip all wires back 1/4" throughout instructions).



Step 2: Prepare Light Harness

The following steps are for a single side; repeat all steps for second side.

- C. Locate the LED Marker Lights and remove the Rubber Gaskets.
- D. Use two of the Splice Butt Connectors to connect one 16GA White Wire to the white lead on the LED Marker Light, and one 16GA Red Wire to the black lead. Also, crimp an additional Splice to the end of the Red Wire. Wrap the connections with Electrical Tape, or use Shrink Wrap.
- E. Crimp an additional Butt Splice to the other 16GA White Wire, and a 1/4" Ring Terminal to the other end, creating a new Ground Harness.
- F. Crimp a Butt Splice to the black lead of the second LED Marker Light.

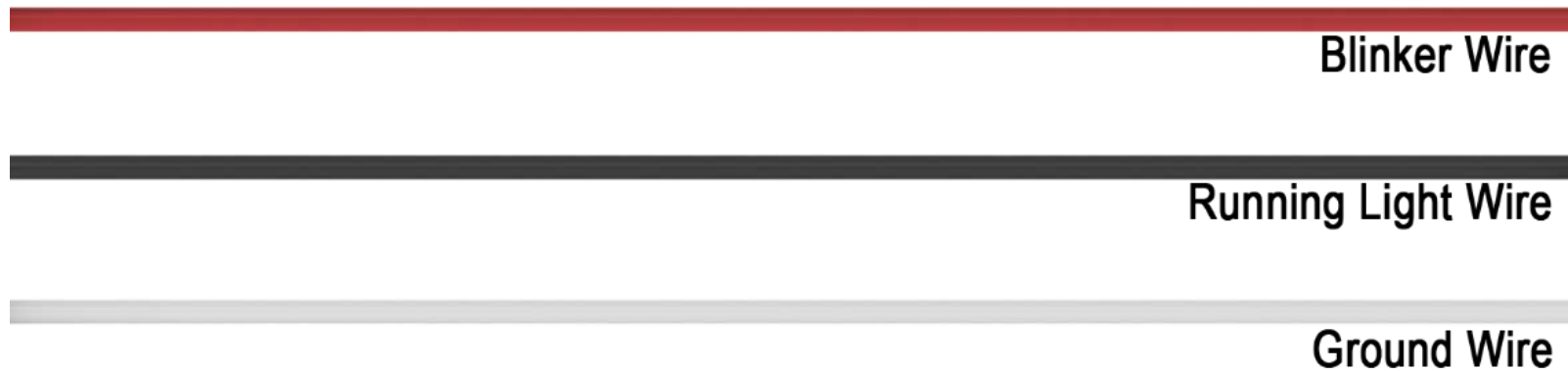


Section 2: Pre-Installation



Optional: Wiring Diagram for MetalCloak Dual Function LED Marker & Blinker Light

Note: The wire diagram below is for **MetalCloak's Dual Function LED Marker & Blinker Light** (Product Number 2209). If you have **MetalCloak's Low Profile LED Marker Lights** (Product Number 2008) skip this step and continue on to next page.



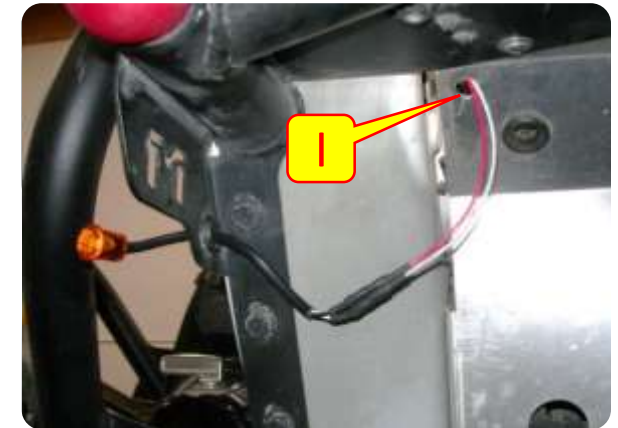
Section 3: Installation Instructions

Step 3: Install Light Bodies

- G. Install the Rubber Gasket for the front LED Marker Light in the 3/4" hole in the front plate of the Fender.
- H. Install the other Rubber Gasket in the 3/4" hole in the Inner Fender Well.

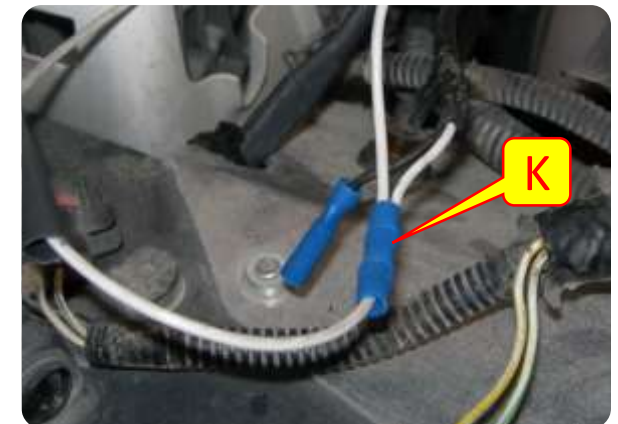


- I. Install the LED Marker Lights. The Light with the extended leads goes through the front hole (with Gasket) and then through the 1/2" hole in the Inner Fender Well.



Step 4: Connect Lights to Stock Harness

- J. Use a 10MM Wrench to remove the M6 screw that holds the ground wire. Attach the Ground Harness with the Ring Terminal and re-tighten the M6 Screw.
- K. Crimp the 2 white leads from the LED Marker Lights to the Ground Harness.



Section 3: Installation Instructions

Step 4: Connect Lights to Stock Harness

- L. Turn on the lights. Touch the bare leads from the stock wires to one of the leads on the LED Lights to determine which wire controls the “marker” function (the wire that causes the light to turn on is your marker wire). Crimp this wire to the lead from the front LED Light.
- M. Crimp the other stock lead to the second LED Light wire, and then test the turn signal.

We recommend that you wire the front LED Light as your marker light, and the LED on the Inner Fender Well as your blinker. However, if you prefer the reverse, simply switch the wires in the steps above.



Step 5: Finalize Installation and Clean-up.

Use Electrical Tape or Zip-ties to stow the wires and protect any open connectors.

If you leave the stock Front Marker Bulb unplugged [N] your blinker will blink more quickly. If you want to correct this you can wrap the bulb with tape (or paint it) and leave it plugged in, stowed on the inside of the Inner Fender Well.

