



PRODUCT: JT Rear Lo-Profile Bumper

REV: B | 04-14-2022 | II-6800

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

5/32" Allen Wrench
5/16" Allen Wrench



Flat Head Screwdriver
Phillips Head Screwdriver

15mm Socket 16mm Socket
19mm Socket 21mm Socket
22mm Socket



T50 Torx Wrench

7/16" Wrench
19mm Wrench



Wire Cutters

Wire Strippers



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

	1	2	3	4	5	6	7	8
E	ITEM	PART NUMBER/DESCRIPTION						QTY.
	1	6801 BUMPER BASE, REAR JT						1
	2	6802 68 BUMPER CAPS, REAR JT						1
	3	6904 BUMPER SENSOR RETAINER SET, REAR JL						1

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DO NOT SCALE DRAWING

PART NUMBER/DESCRIPTION

A DIVISION OF ARMORED WORKS, LLC

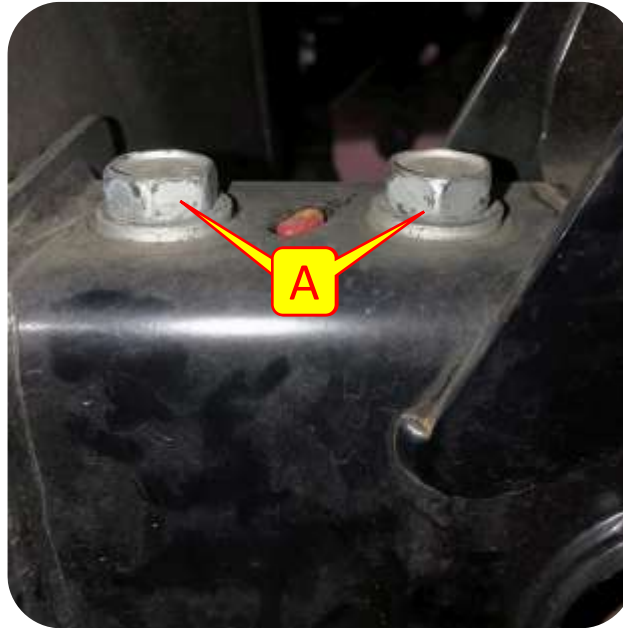
6800 REAR BUMPER SYSTEM, REAR JT

Section 3: Installation Instructions

Step 1: Preparation for the Rear Bumper

Important Note: For easier access to the back of the bumper MetalCloak recommends removing the spare tire.

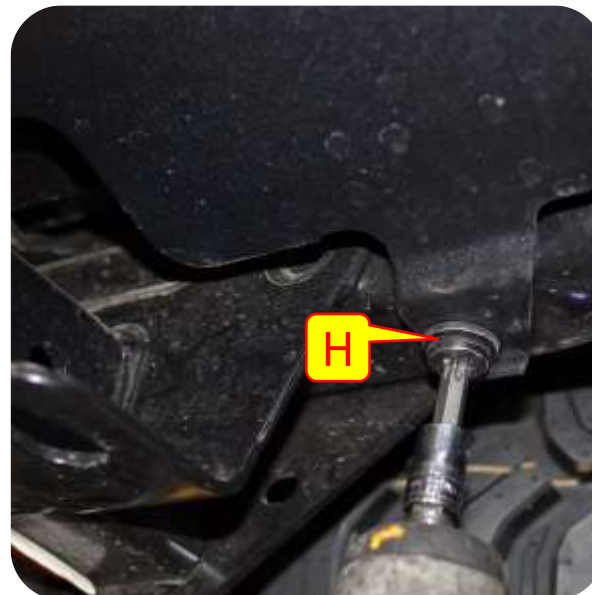
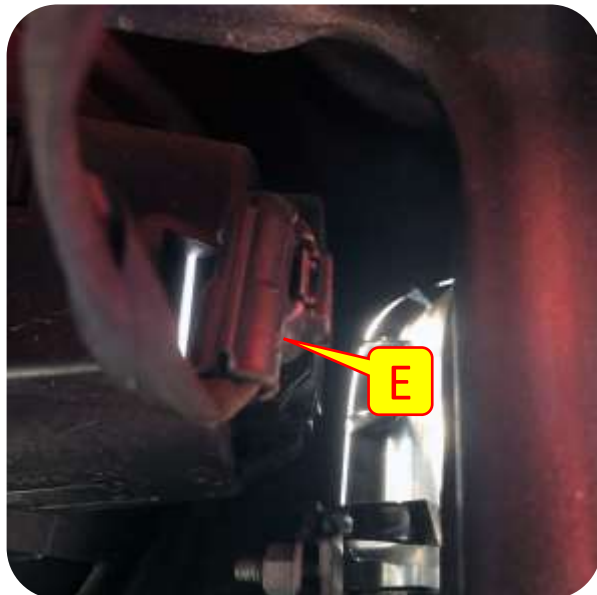
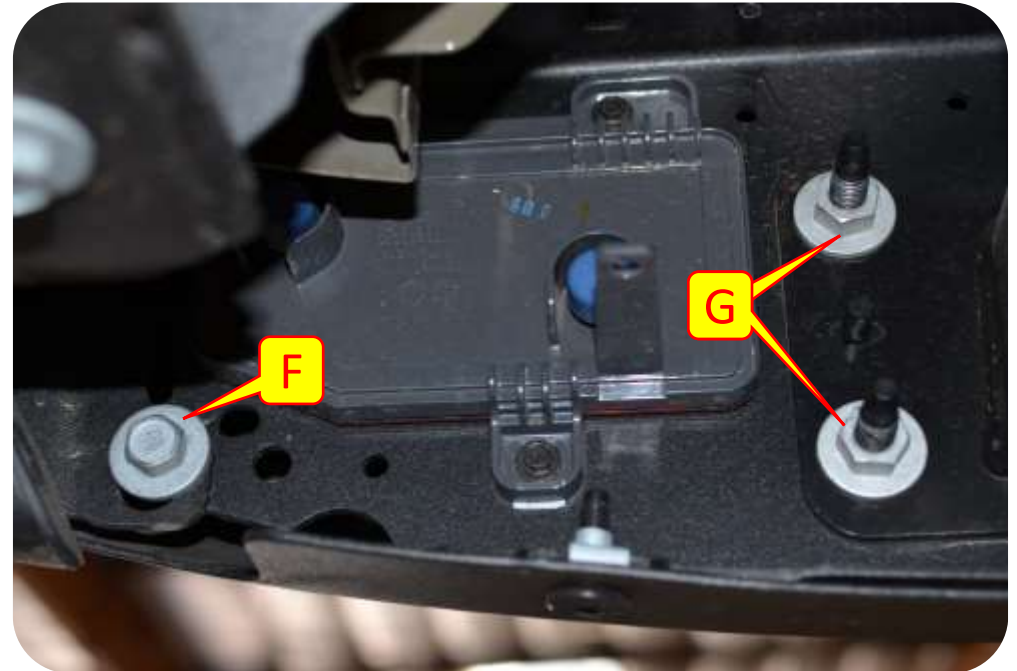
- A. Using a 21mm socket remove the two bolts holding the stock recovery hooks.
- B. Remove the recovery hooks.
- C. Using a flathead screwdriver remove the license plate.
- D. If you have the tow package disconnect the tow plug from the rear bumper.



Section 3: Installation Instructions

Step 1: Preparation for the Rear Bumper

- E. Disconnect the rear bumper stock lights.
- F. Using a 15mm socket disconnect the rear rocker bolt from the rear bumper.
- G. Using a 16mm socket disconnect the bumper from the frame mounts.
- H. Using a T50 torx wrench disconnect the bolts next to the tow hitch from the bumper.
- I. Using a 16mm socket disconnect the bolts that were behind the license plate and remove the rear bumper.



Section 2: Installation Instructions

Step 2: Sensors and Sensor Retainers

Note: If your bumper does not come with sensors use the provided plugs to fill in the sensor holes on the MetalCloak bumper.

- J. Disassemble the stock bumper using a 9/32" socket to gain access to the bumper sensors.
- K. Remove the sensors and sensor wiring harness from the stock bumper.
- L. Install the sensor retainers into the sensor holes on the bumpers and end caps.
- M. Install the sensors into the sensor retainers.
- N. Connect the sensor wiring harness to the sensors.



Section 3: Installation Instructions



Step 3: Rear Bumper Installation

- O. Mount the MetalCloak rear bumper to the frame. If you purchased the MetalCloak rear bumper D-ring recovery points, we recommend installing them before installing the bumper base.
- P. Reinstall the stock T50 bolts loosely to help hold the bumper into place.
- Q. Choose one of the stock bumper light plugs and snip any two wires. Zip Tie the other light wiring up out of the way.



Section 3: Installation Instructions

Step 3: Rear Bumper Installation

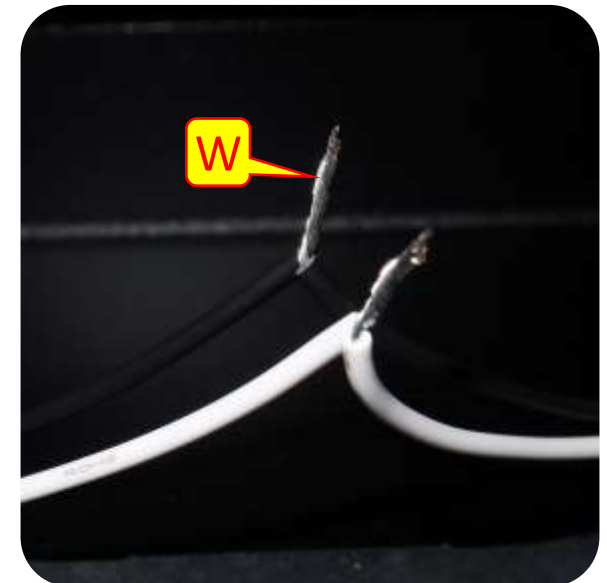
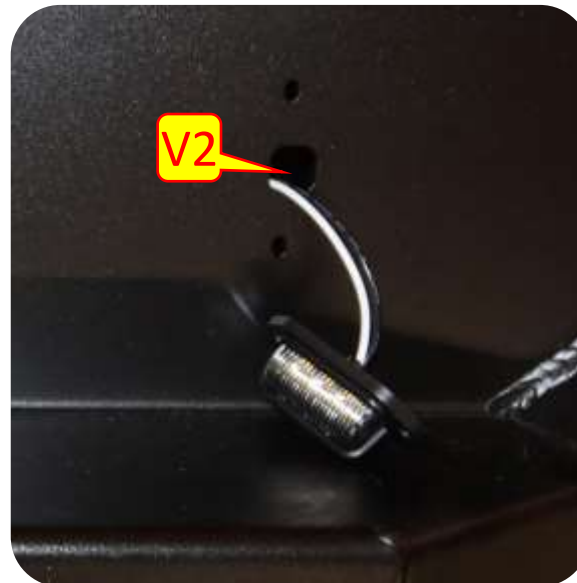
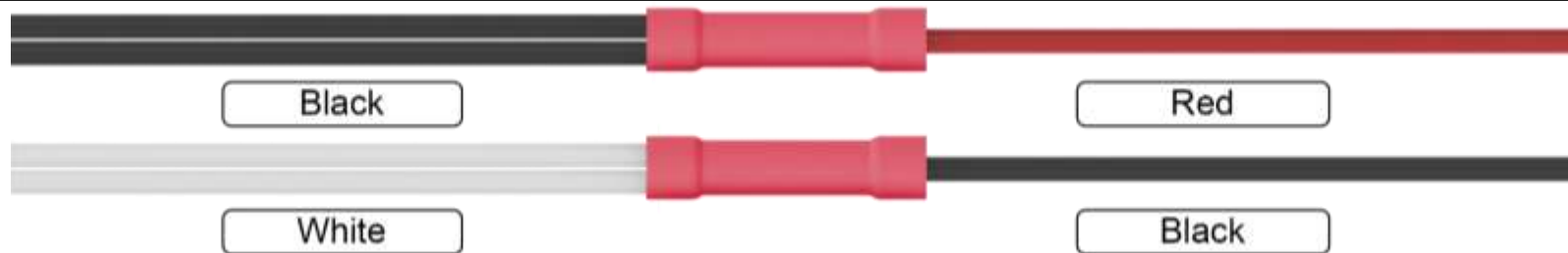
- R. Using the provided bolts and flange nuts install the bumper end caps to the bumper base.
- S. Loosely install the countersunk bolt and skid washer on the underside of the end caps.
- T. Using the button head bolts install into the top of the end caps. We recommend installing the bolts from the back side of the bumper.
- U. If you have the tow package install the tow plug into the rear bumper. If you do not have the tow package, use the provided cover plate and set screws.



Section 3: Installation Instructions

Step 4: Rear Bumper Wiring Installation

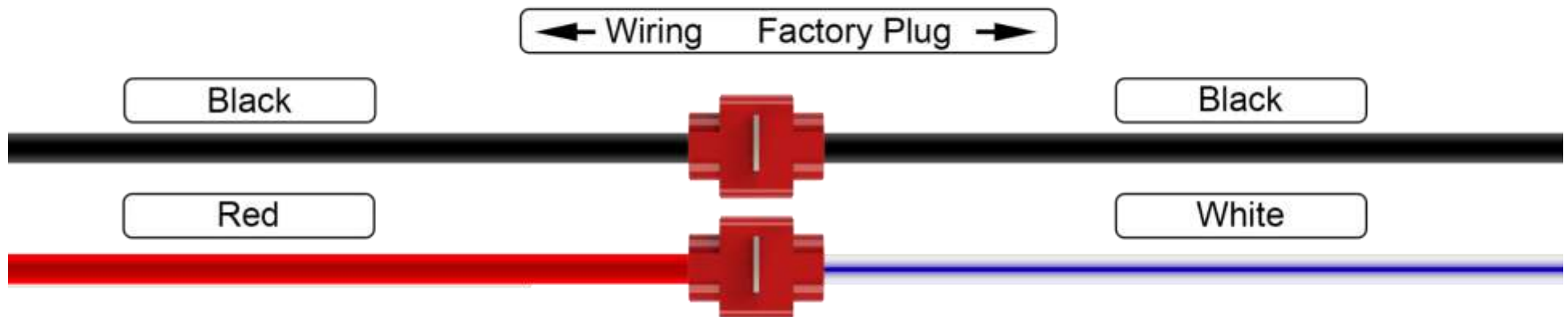
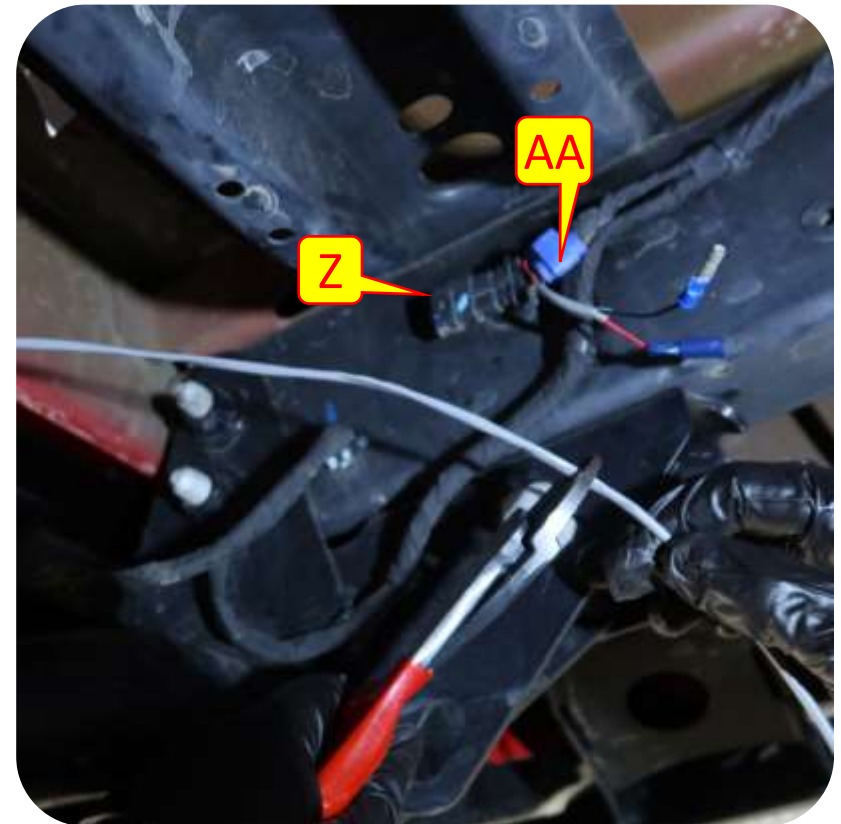
- V. Using the provided countersunk screws install the LED lights on the bumper threading the wires of the lights through the large holes located on either side of the license plate.
- W. Locate the white wires from each of the LED lights and twist the stripped ends of the two wires together. Repeat with the two black wires.
- X. Strip roughly 3/4" of the gray jacking from the included extension wire, and 3/8" of insulation from the red and black conductors inside.
- Y. Splice the LED light to the provided wiring according to the diagram.



Section 3: Installation Instructions

Step 4: Rear Bumper Wiring Installation

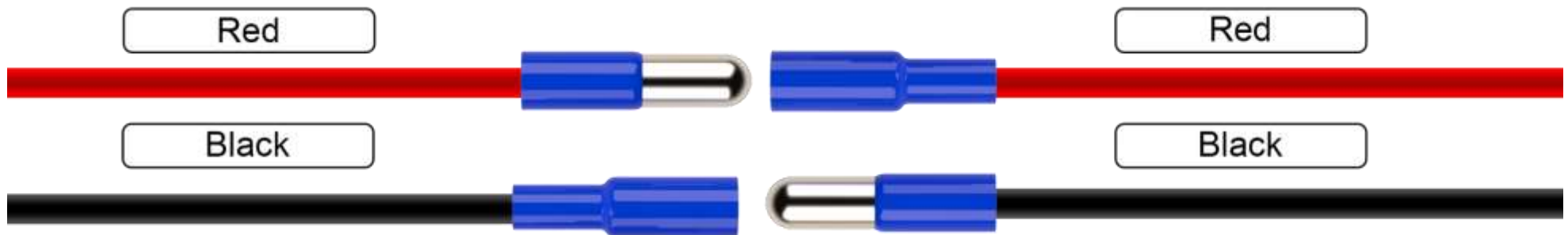
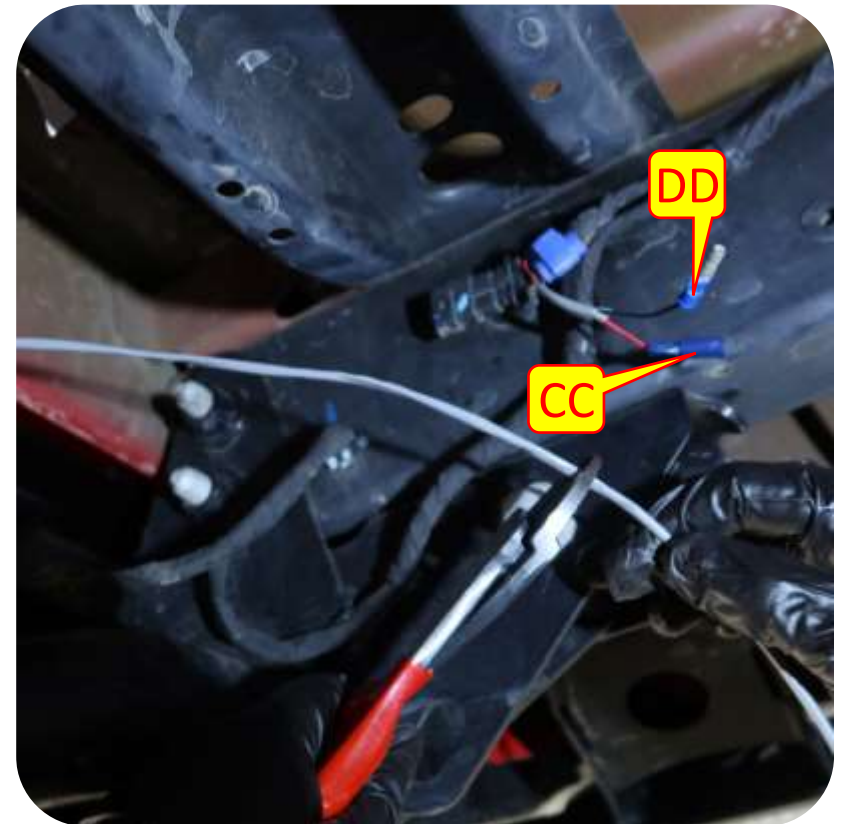
- Z. Locate the factory license plate light pigtail on the inside of the driver's side frame rail.
- AA. Separate a small section (several inches recommended) of the extension wire and strip the conductors 3/8" on both ends.
- BB. Splice the factory license plate light pigtail to the provided wiring according to the diagram.



Section 3: Installation Instructions

Step 4: Rear Bumper Wiring Installation

- CC. On the other end of the short extension wire (the extension wire that has been attached to the factory pigtail) strip and attach the included female bullet connector and crimp to the red wire.
- DD. On the other end of the short extension wire (the extension wire that has been attached to the factory pigtail) strip and attach the included male bullet connector and crimp to the black wire.
- EE. Trim the long extension wire attached to the LEDs to the desired length, making sure to leave enough wire to reach the bullet connectors and crimp the female bullet connector to the black wire and the red male bullet connector to the red wire.
- FF. Connect the bullet connectors according to the diagram.
- GG. Secure the extension wire to the frame and bumper with zip ties.



Section 3: Installation Instructions

Step 3: Rear Bumper Installation

- HH. Using a 19mm socket and wrench tighten the hex head bolts and flange nuts.
- II. Using a 5/16" allen wrench tighten the countersunk bolts.
- JJ. Using a T50 torx tighten the bolts next to the tow hitch.
- KK. Using a 5/16" allen and 19mm socket tighten the top end cap button head bolts.
- LL. Tighten the license plate bolts with a 5/32" allen and 7/16" wrench.

