



PRODUCT: TJ Wrangler Rear License Plate Relocation

REV: A | 01-06-2023 | II-2181

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

1/2" Socket



8MM Box Wrench

5/32" Allen Wrench
3/16" Allen Wrench



Wire Cutter
Wire Stripper
Wire Crimper

Philips Head Screwdriver



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 2

ITEM	PART NUMBER/DESCRIPTION	QTY.
1	CP-0676 PLATE MOUNT, TJ	1
HK-2181 [INTERNAL]		
2	FA-1005 ZIP TIE DOUBLE LOCK, 8IN, UV BLACK	4
3	FA-1023 FEMALE BULLET CONNECTOR, 16-14GA	3
4	FA-1026 WIRE SPLICE, 22-18GA	3
5	FA-1030 BULLET CONNECTOR MALE, 16-14GA	3
6	FA-1037 RED LED MARKER LIGHT, 1.25D X 9.0L	1
7	FA-1038 WIRE, 18GA THREE-CONDUCTOR X 8FT	1
8	FA-1040 LICENSE PLATE LIGHT, 1.30W X 2.60L	1
9	FS-00084 NYLOCK NUT, 6-32 X 0.17H STL GF ZINC	2
10	FS-00085 FHCS CROSS, 6-32 X 0.75L STL ZINC	2
11	FS-04021 SBHCS, 0.25-20 X 0.63L SS 18-8 PLAIN	4
12	FS-05225 WASHER, 0.34ID X 0.74OD X 0.06TH NYLON	4
13	FS-05249 SBHCS, 0.31-18 x 0.75L STL G5 ZINC	4

OPTIONS:
2181-BPC USE:
CP-0676-BPC

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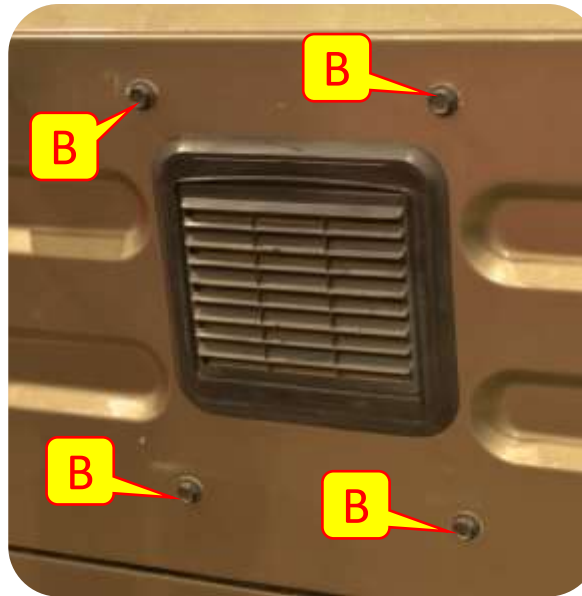
Metal Cloak
A DIVISION OF ARMORED WORKS, LLC

PART NUMBER/DESCRIPTION
2181 TAILGATE LICENSE PLATE MOUNT, TJ

Section 3: Installation Instructions

Step 1: Remove Stock Components

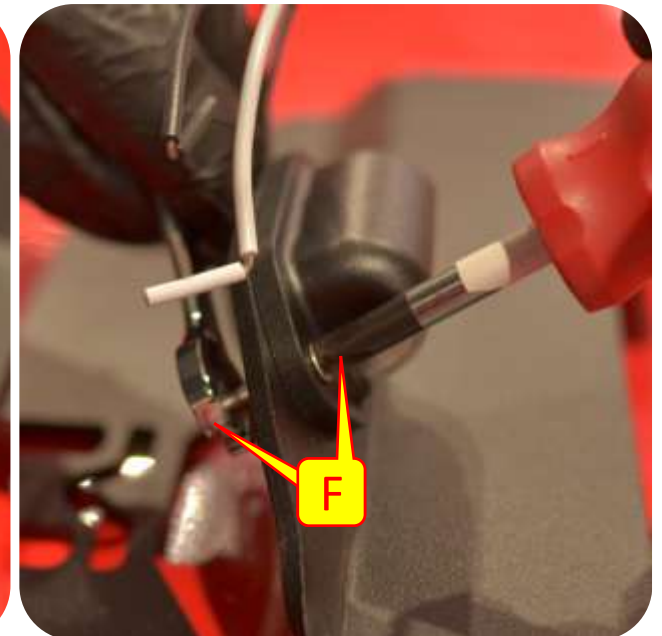
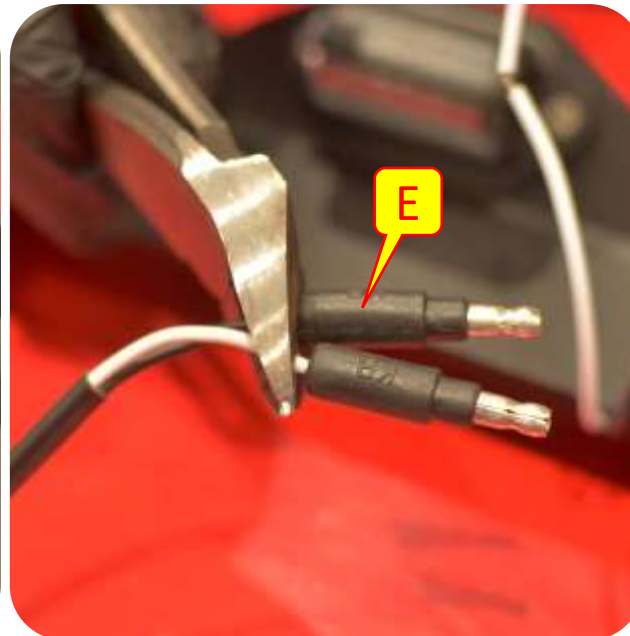
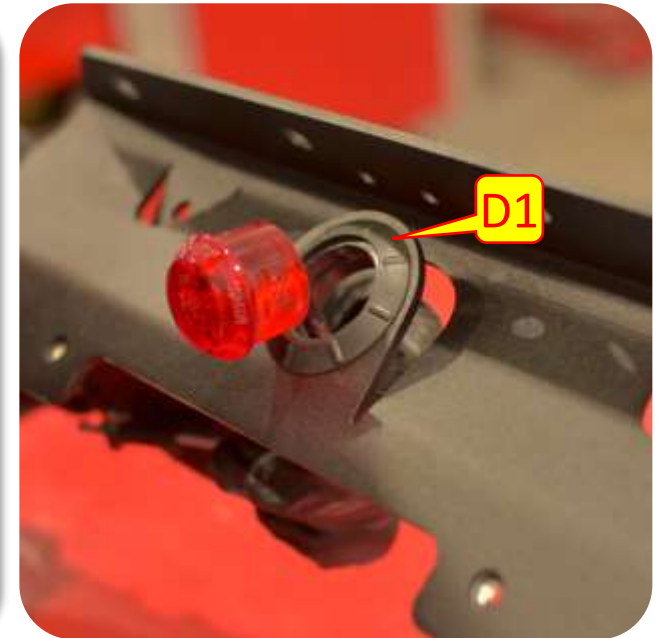
- A. Remove factory tire carrier.
- B. Remove factory mounting bolts from tailgate using 1/2" socket.
- C. Gently pull to remove rear air vent from tailgate.
- D. Open the tailgate and using a Philips head screwdriver remove the lower hinge cover plate.



Section 3: Installation Instructions

Step 2: Tailgate License Plate Mount Preparation

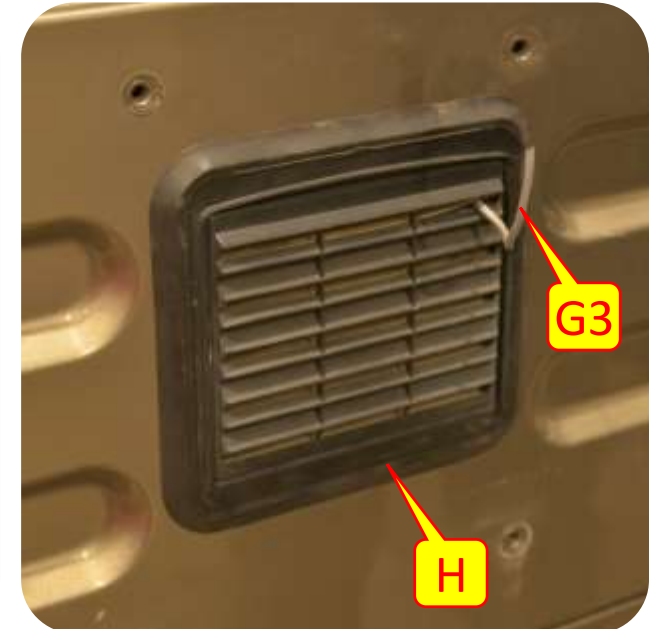
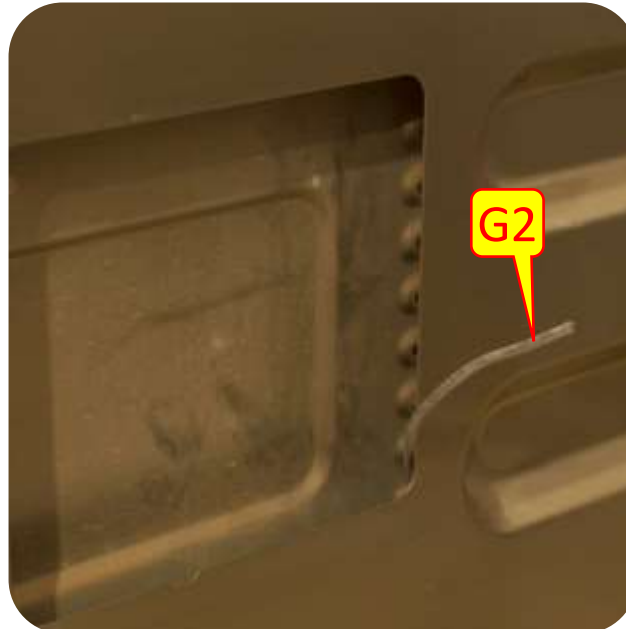
- D. Assemble rear license plate relocation bracket by pressing rubber grommet into bracket (*D1*), then press led brake light into the rubber grommet (*D2*).
- E. Using snips remove the wire connectors on the led brake light.
- F. Install license plate illuminating led with a Philips screwdriver and an 8mm box wrench.



Section 3: Installation Instructions

Step 3: Tailgate License Plate Mount Wiring

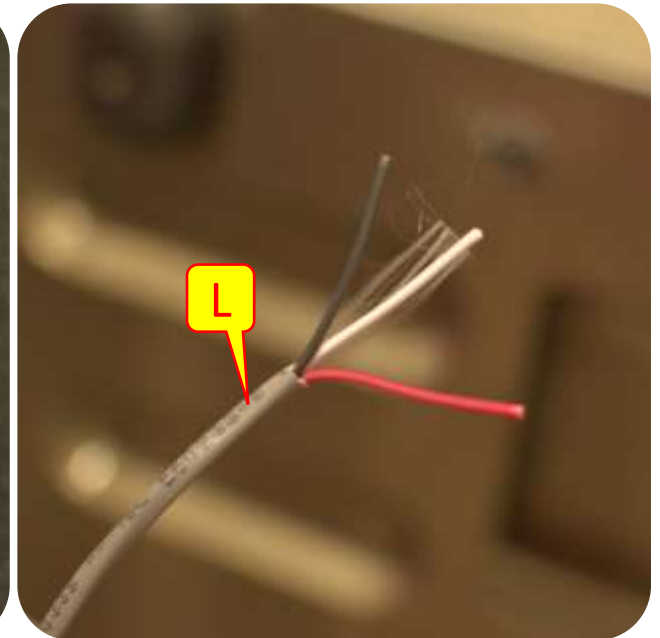
- G. Feed the wire through the hole that was located behind the hinge cover (G1), through the tailgate where the vent was located (G2), and through the factory vent leaving 6" of wire remaining through the vent (G3).
- H. Reinstall the vent.



Section 3: Installation Instructions

Step 3: Tailgate License Plate Mount Wiring

- I. Remove the passenger side taillight with a Philips head screwdriver and gently cut into the wiring loom.
- J. Pull the passenger side carpet back to reveal a rubber grommet that goes through to the inner fender.
- K. Feed the remaining supplied wire through the fender and back to the passenger brake light.
- L. Strip the supplied wiring housing 2in from the end to reveal three wires: Red, White and Black

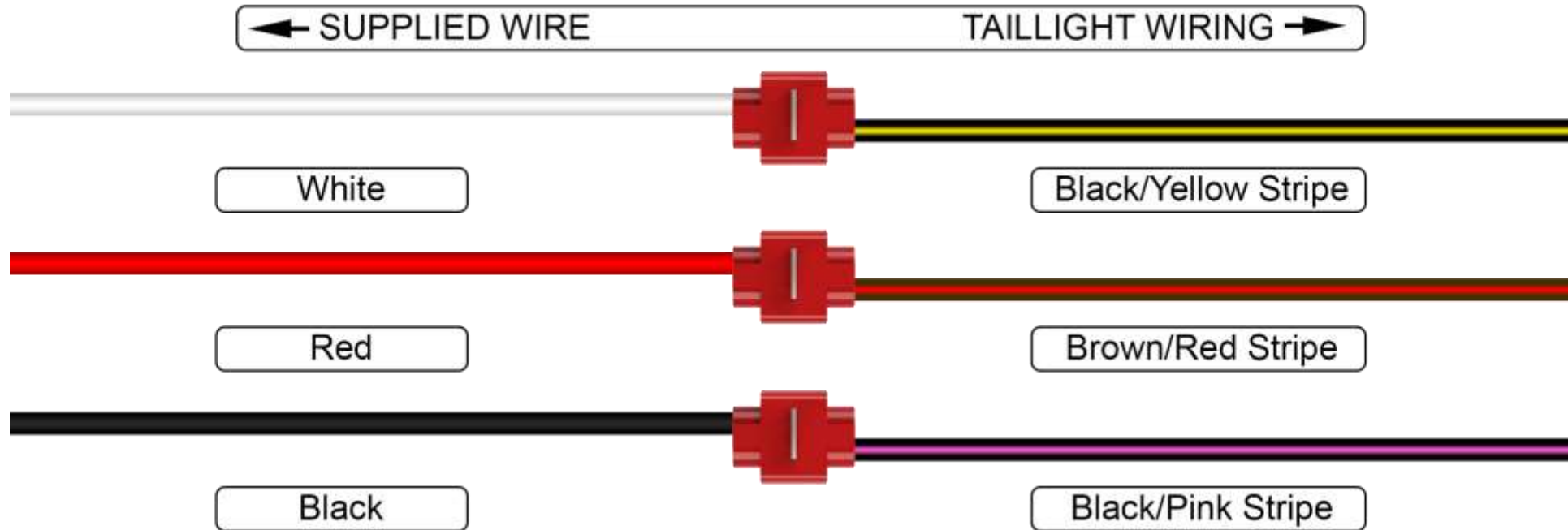


Section 3: Installation Instructions



Step 4: Taillight Wiring Installation

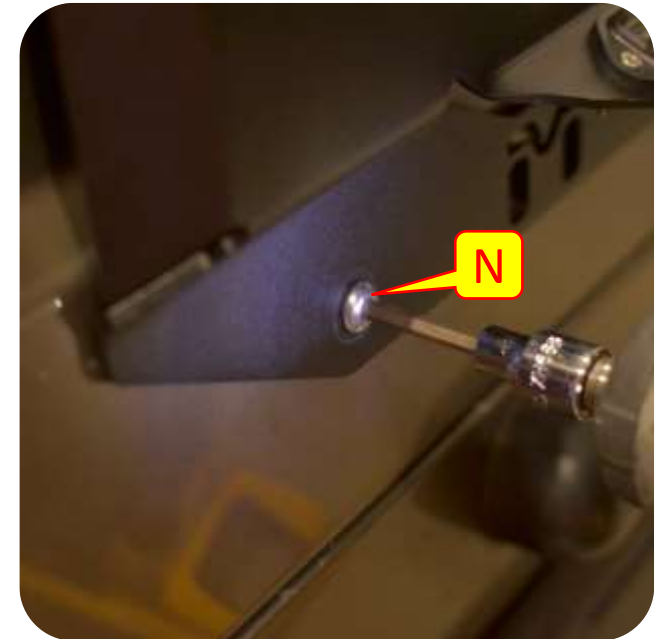
M. Using the supplied wire splice connect the wires accordingly.



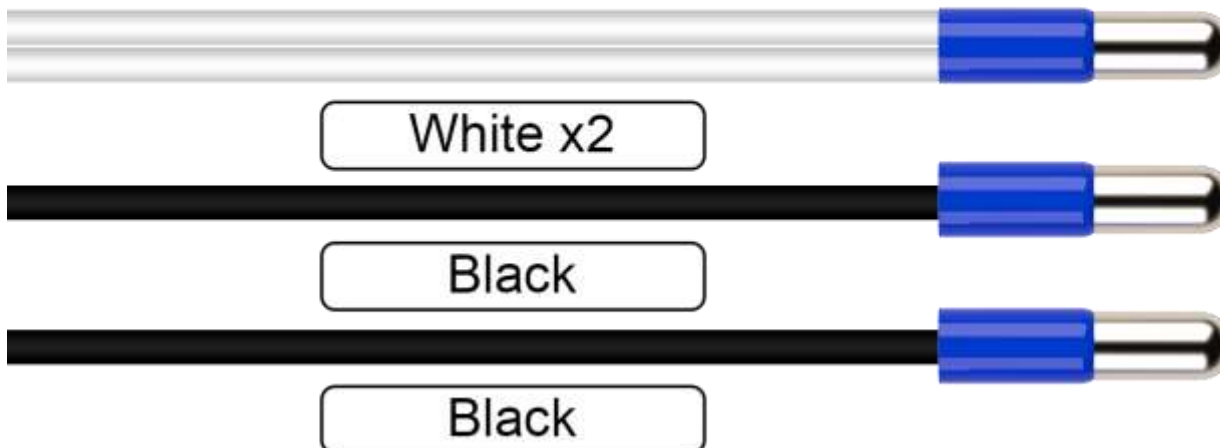
Section 3: Installation Instructions

Step 5: License Plate Mount Installation

- N. Install license plate relocation bracket to tailgate with provided bolts and washers and tighten with a 3/16 Allen wrench.
- O. On license plate relocation bracket, join both WHITE wires of brake and license illumination light into the same supplied male bullet connector.
- P. Connect remaining two male bullet connectors individually onto BLACK wires of brake, and license illumination light.



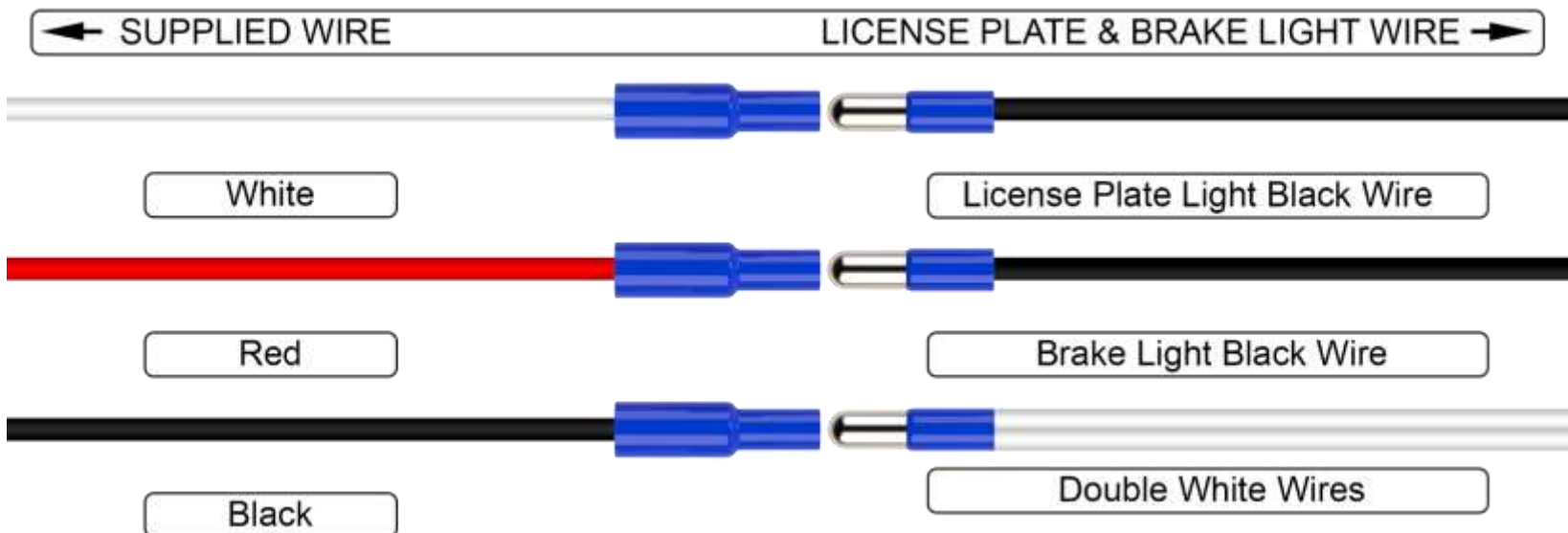
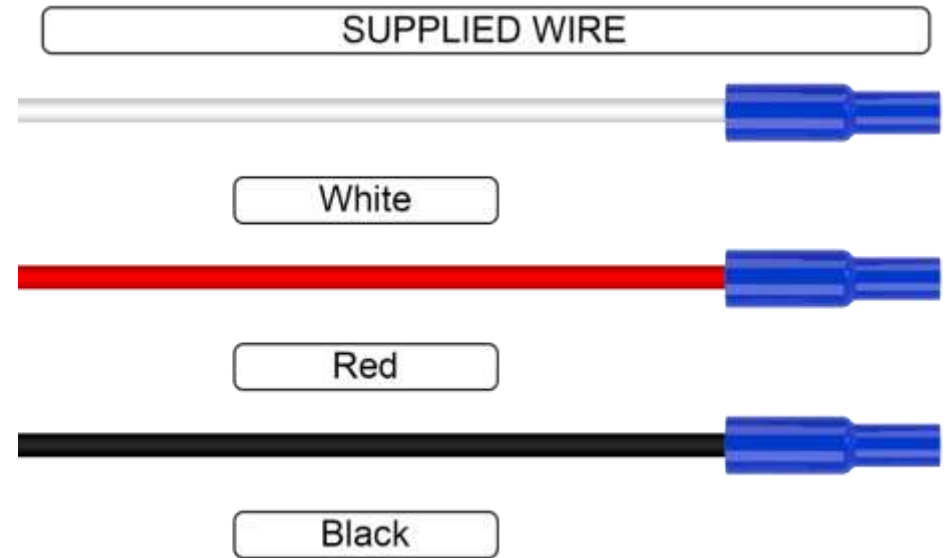
Third Brake Light & License Plate Light



Section 3: Installation Instructions

Step 6: License Plate Wiring Connection

- Q. Strip supplied wiring housing 2" from end out of rear vent to reveal 3 wires: Red, White, Black.
- R. Install 3 female bullet connectors onto individual wires.
- S. Connect the bullet connectors according to the diagram below.
- T. Test and verify the function of all lights.



Section 3: Installation Instructions

Step 7: Reinstall All Components

- U. Reassemble the passenger brake light.
- V. Reinstall the carpet.
- W. Reinstall the hinge cover using a Philips head screwdriver.
- X. Install the license plate to the mount and tighten the hardware with a 5/32 allen wrench.

