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THE SCIENTISTS OF LIGHTING

**44-7863, 44-7873, 44-0024, 44-0023, 44-0025, 44-0026  
2019-On Mercedes Sprinter Van Fog Pocket Kit**



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## LIMITED LIFETIME WARRANTY

Baja Designs proudly offers a LIFETIME WARRANTY against manufacturer's defect on all the products that we manufacture.

These are comprehensive warranties; other than the exclusions below – you're covered. If your LED or HID bulb burns out, you're covered. Additionally, cutting off our connector or changing your lenses does not automatically void your warranty.

### **Exclusions:**

Installation errors, abuse, misuse or crash damage. You must be the original owner of the product and can supply proof of purchase.

Baja Designs manufactures its own products as well as resells products manufactured by others. Baja Designs makes no express or implied warranties on products not manufactured by Baja Designs including without limitation any warranties or merchantability and fitness for a purpose. We will, however, pass on all warranties made by the manufacturer, who has sole responsibility for performing such warranties.

Baja Designs will pay the freight if your product is less than 90 days old, otherwise defective products must be returned to Baja Designs, Inc., freight prepaid. At our option, we will repair or replace items in question and return them at no charge. If the identical product is no longer available, we will replace with a similar product of equal value. Baja Designs Inc. will not be responsible for any indirect or consequential damages in connection with defective merchandise.

Items purchased through a Baja Designs authorized dealer must be returned through the dealer. Only available on LED auxiliary lights and product must be in sellable condition at MSRP. Product that has been damaged in any way after the original purchase date will be excluded from this guarantee.

### **Indemnification:**

**Buyer hereby acknowledges off-roading, racing and driving at night are dangerous activities and that the products and/or supplies purchased from Baja Designs are used in an inherently dangerous activity that may endanger life and limb; and in no event shall the seller, or seller's heirs and assigns, be held liable for consequential damages, nor shall seller's liability on any claim for damages arising out of or connected with the sale, delivery, or use of purchased products and/or supplies exceed the purchase price of the products and/or supplies.**

**Buyer is responsible for ensuring that it uses the products (and its vehicle) in accordance with all applicable laws, regulations, guidelines, and standards of care. Buyer acknowledges that some products may only be used when off-roading, and Buyer will comply with all vehicle and road safety guidelines. Buyer is solely responsible for (and will indemnify and hold Bestop harmless for) any claims, losses, damages, fines, fees, costs, or other amounts arising out of Buyer's non-compliance with these provisions.**

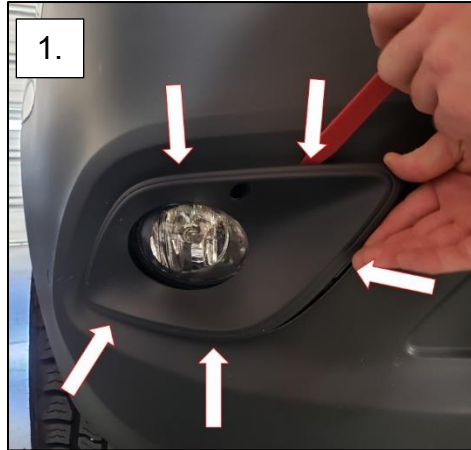
## **Tools Required**

- |                     |                     |              |
|---------------------|---------------------|--------------|
| *T-20 Torx          | *Digital multimeter | *10mm Socket |
| * Trim removal tool | * 4mm Allen wrench  | * Scissors   |

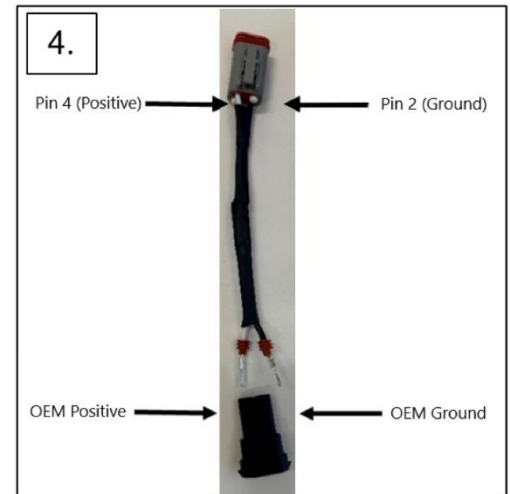
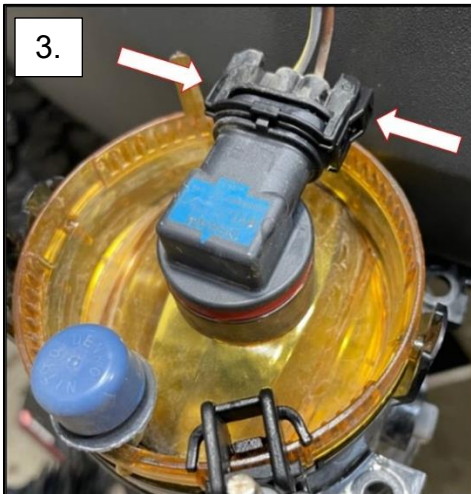
**To begin, make sure the vehicle is in park, on level ground and the parking brake is engaged.**

1. Using a trim removal tool, remove the plastic fog light bezel starting from the center of the vehicle. Make sure to not pry along the outer edge. Tabs are marked with arrows. (Passenger side shown)

2. Using a T-20 Torx bit, remove the single fastener securing the light to the vehicle and carefully remove the light. Keep hardware as it will be reused.



3. Push on the release tabs on the OEM fog light connector. Carefully unplug the light from the harness. Probe the OEM plug to identify ground and power using a digital multimeter. Identify these by color. Note vehicle must be on with fog lights active.



4. Locate the de-pinned harness adapter and the 4-Pin Deutsch Squadron 2.0 plug. Using a multimeter, identify which wire is positive and negative on the OEM harness. Note that the black wire (Negative) is on Port 2, and white (Positive) is on Port 4. Ensure that the H11 connector pins are installed correctly. Push the pins inside the H11 connector housing until a faint click is heard. Verify that the pins are fully installed by **GENTLY** pulling the wires away from the H11 connector. Connect this adapter onto the OEM harness.

5. Install the larger metal bracket to the plastic shroud at the longer mounting tab on the shroud. Use a 10mm socket and a 4mm Hex key to install the M6 Button head along with a nut and washer. Leave loose for now.

**\* Install the bolt such that the head is towards the inside of the shroud\***



6. Install the smaller metal bracket onto the shorter mounting point on the shroud. Use a 10mm socket and 4mm Hex key to install an M6 Buttonhead, washer, and nut. Leave loose for now.

**\* Install the bolt such that the head is towards the inside of the shroud\***

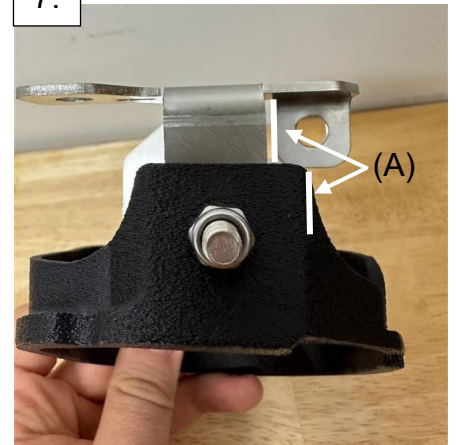
7. Align the metal brackets to make sure they are straight as shown in the figure provided (A). Tighten the brackets.

**\*Careful to not overtighten as the shroud can be damaged\***

6 & 7



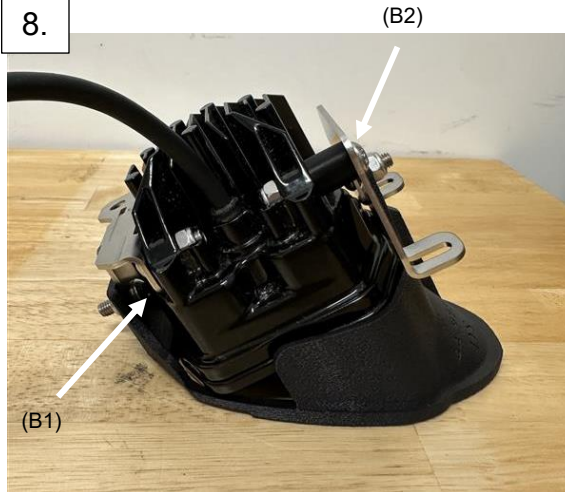
7.



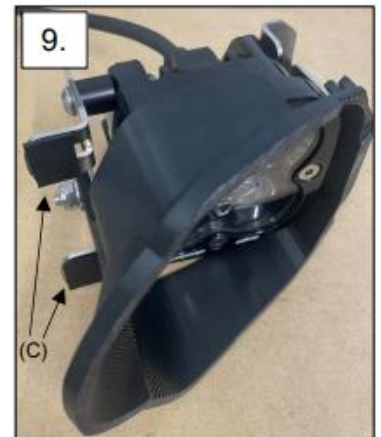
8. Install the Squadron 2.0 to both metal bracket's lower holes. Install M6 nylock nuts in housing. Use a 4mm Hex key to install a small M6 Button head (B1) and a long M6 Button head. The longer M6 buttonhead (B2) will require the use of the spacer provided and will go onto the larger metal bracket. Adjust the light until it is straight and tighten the bolts.

9. Take the provided EPDM strip and cut a 5/8" X 0.5" strip from it. Then cut that piece in half. Install these onto the two flanges protruding from the larger metal bracket (C).

8.



9.

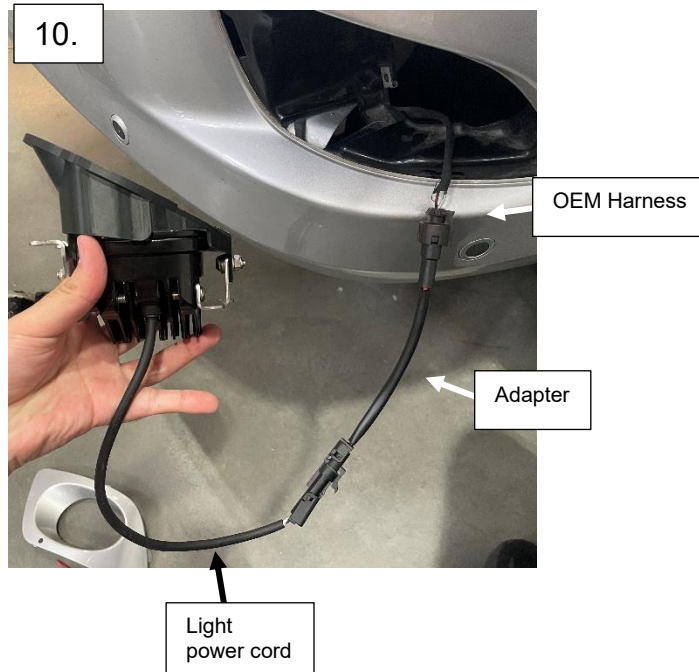


10. Connect the adapter to the OEM plug and then connect the light to the adapter. Tuck the harness into the cavity.

11. Test the light's functionality.

12. To wire backlights for Squadron 2.0 only, please flip to the end for detailed instructions.

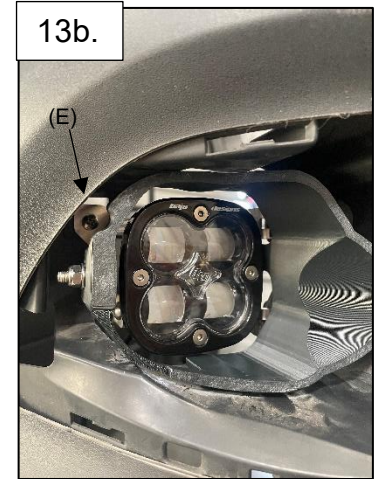
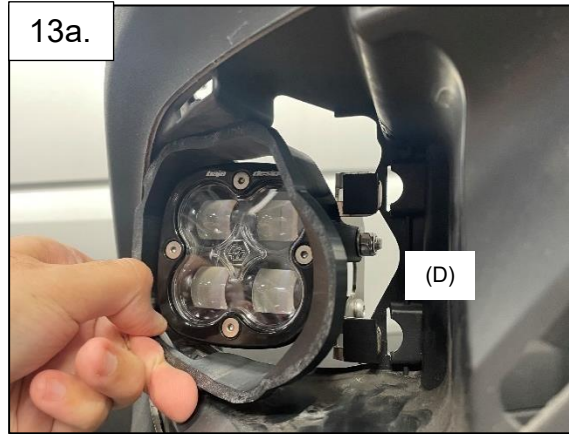
10.



13. Install the light in the fog light opening by holding the light assembly as far away from the inside of the vehicle until the two prongs on the metal bracket clear the mounts. Insert the prongs into the two slots (D) and re-install the screw (From Step 2) into the mounting hole (E) using a T20 driver.

14. Re-install the trim panel removed in step 1 and make sure the plastic tab (F) is correctly installed. Make sure all 4 clips are engaged.

15. Repeat Steps 1-14 for the opposite side of the vehicle.



**If you want to disable the corner-illumination fog light feature, you can:**

- Turn off the automatic headlights and use the manual mode, or
- Contact your local dealership to assist in disabling the feature.

\*Tie all wires away from sharp, hot, and/or rotating components.

\* Re-torque all the fasteners after 100 miles.

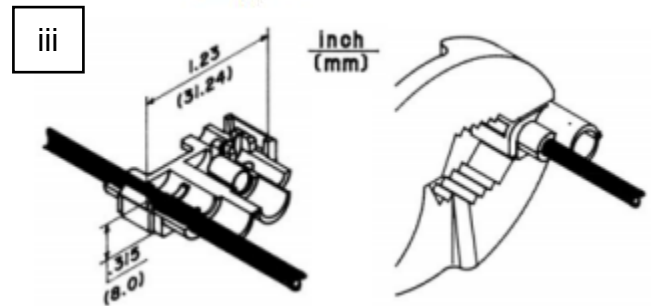
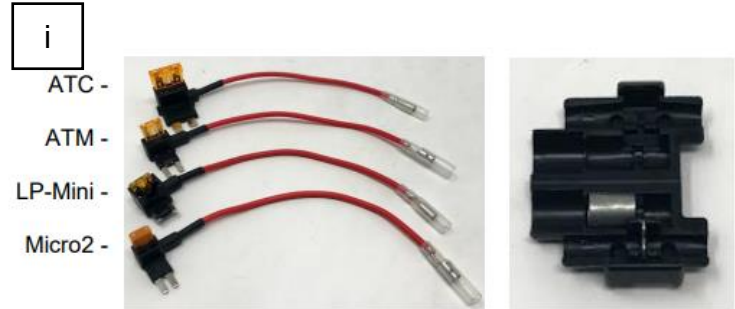
\*Your install is now complete! Thank you for choosing Baja Designs.

## Backlight add-on harness instructions for Squadron 2.0

**Note:** Included with this harness is four fuse taps. In the event that none will work for your application, a splice connector is included (shown on right).

1. Locate the fuse panel in the engine compartment. Remove cover.
2. Observe the inside of the fuse box cover, or the owner's manual to determine fuse locations and functions. The goal is to find a suitable circuit that is powered on when the vehicle is turned on. It is important to choose a fuse location that does not power sensitive electrical components, such as sensors and ignition modules. Choose a fuse that is activated by turning the key and remains active while the vehicle is starting and running. The IGN fuse is highly recommended for this. Using other circuits to run the backlight may result in the color changing when not desired.
3. Once the fuse location has been chosen, the multimeter or test light will be used to determine which side of the fuse is power and which side is the output. Using either tool, touch the positive test lead to one side of the fuse socket and touch the negative lead to the negative battery post, or any convenient ground. With the keys in the off position, neither side of the fuse socket should have power. If they do, another fuse location will need to be chosen.
4. Now, turn the keys to the on position and measure each side of the fuse socket. When the test light illuminates, or the multimeter DC voltage measures 12-14V, the power side of the fuse has been determined. Insert the fuse tap into the socket with the arrowed side blade (shown in image ii) contacting the power side. Plug in the backlight harness to the female bullet receptacle of the fuse tap. If the fuse socket originally had a fuse, place it into the open socket on the fuse tap.
5. Every fuse panel is different and sometimes there are adjacent components that make it difficult or impossible to plug in a fuse tap. In this case, the splice connector will need to be used. Find a wire that is powered when the keys are on. Ideally, this wire would power the daytime running lights and not an electrically sensitive component like a sensor. With the backlight harness inserted into the female bullet receptacle of the splice connector, clasp the splice over the desired power wire and clamp with pliers until an audible click is heard. (See image iii for reference)

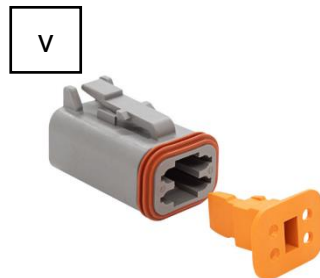
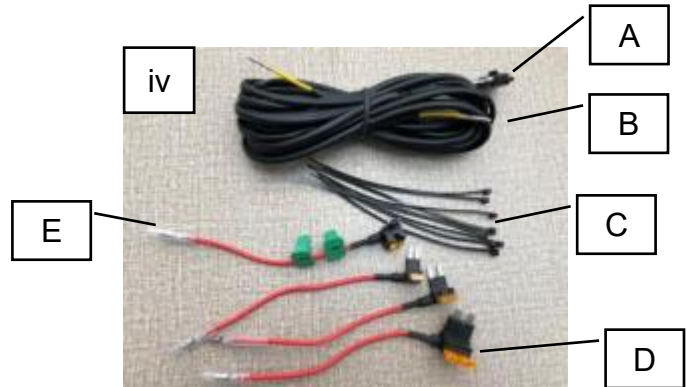
Tools Required	
- Trim Tool (Or Flathead Screwdriver)	- Test Light, or Multimeter
- Scissors	



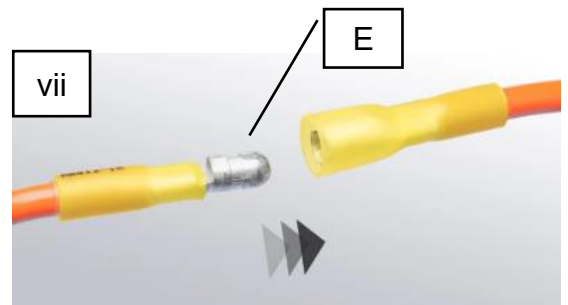
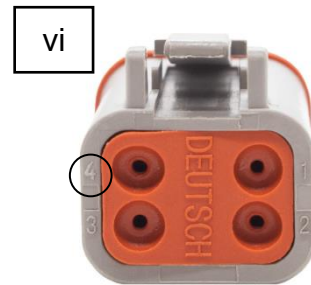
Fuse tap kit part #: 63-9209

## Backlight add-on harness instructions

6. Use the provided 5-amp fuse in the fuse tap for the backlight add-on harness (See image ii for reference).
7. Remove the Wedge lock from the plug by using a flat head screwdriver and **gently** prying along the edges with a flathead to release the lock (see image v for reference)
8. Locate the backlight add-on harness supplied in the kit. If a cavity plug was inserted previously in the PnP (Plug-n-Play) adapter, please remove it and insert the terminal inside the (3) pin location. (See image vii for reference)
9. To reinstall the wedge lock, simply push the wedge lock back in until it clicks in. (See image v for reference)
10. Determine the best routing for the backlight add-on harness.
11. Connect the bullet connector from the backlight add-on harness to the fuse tap and secure the wire harness. (Use image iii for reference)
12. Turn on the vehicle and test to see if the backlight function on the Squadron 2.0 works appropriately.
13. Use included zip ties to tie the harness out of the way of any hot and/or rotating components.



A: Splice connector  
B: Harness  
C: Zip ties  
D: Fuse taps  
E: Bullet connector



## Backlight switch adapter instructions

1. Connect the bullet connectors from the switch inline between the fuse tap and the backlight add-on harness.
2. Turn the switch on and off until the desired color is displayed as the backlight.
3. Once the desired color has been achieved, the switch can be either removed or left in. To remove the switch, turn the vehicle off and remove the switch. Reconnect the bullet connectors between the fuse tap and the backlight add-on harness. To leave the switch in line, secure the switch so it does not move. **Be sure to always leave switch in the “on” position if the switch will be left in.**



Inline switch part #: 60-0071