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25-On Toyota 4Runner Behind the Grill Squadron 2.0 Kit (44-0012, 44-0013, 44-0014, 44-0015)



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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.

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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.

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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

* 4mm Allen wrench
* Trim removal tool

*9/16" wrench and socket
*Phillips head screwdriver

*10mm socket and ratchet
*12mm socket and ratchet

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

1. With a 10mm socket, disconnect the negative battery cable. For hybrids the battery is located in the cargo area passenger side wall. Remove the three forward most bolts in the driver's front fender well (circled). With a trim removal tool, pop the plastic screw fitting out freeing the felt from the fender.



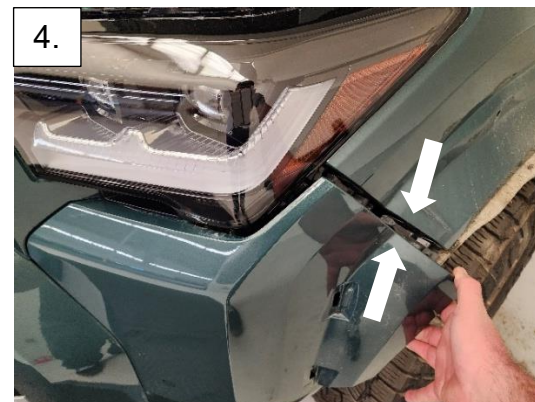
2. On the bottom of the front lip, remove the 6 bolts securing the front clip (circled) with a 10mm socket. There are 2 bolts per corner and 2 along the bottom edge.



3. Disconnect the electrical connectors (2-3) on the passenger side of the front clip and repeat for the one on the driver side (arrowed).



4. Partially remove the front fender flare by pulling it directly outward. Gently pull the sides of the front clip out and forward to disconnect them from the vehicle.

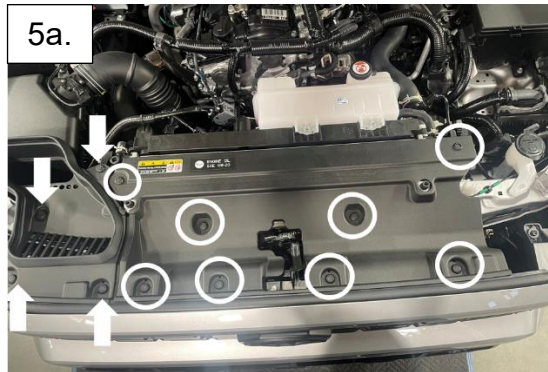


A small trim removal tool or flathead screwdriver may be needed to disconnect the first two clips. The furthest in clip will be behind the grill vent trim pieces under the headlight. Repeat on the opposite side of the vehicle.

5. Remove the eight push rivets (circled 5a) securing the top radiator fascia to the vehicle and remove it.

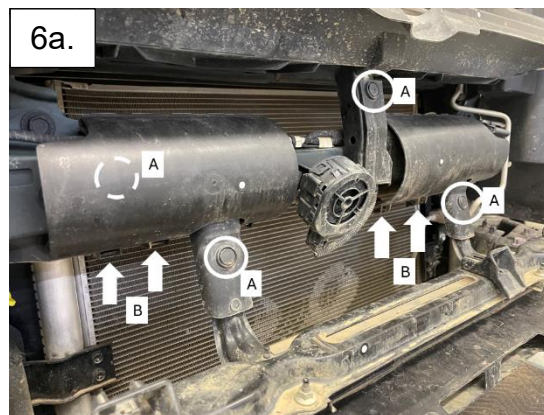
Some trims will have to remove the air intake by releasing 4 additional push rivets (arrowed)

With a 10mm socket, remove the 3 bolts holding the top of the grill to the core support (circled 5b). Gently lift up and out on the front clip to remove it from the vehicle and place it face down on a soft work surface.



6. Remove the black plastic covers by releasing 4X black plastic clips circled (A), 6X snap clips on the underside (B) and squeezing the prongs using some needle nose pliers and pull away the cover (6b). Covers will not be reused.

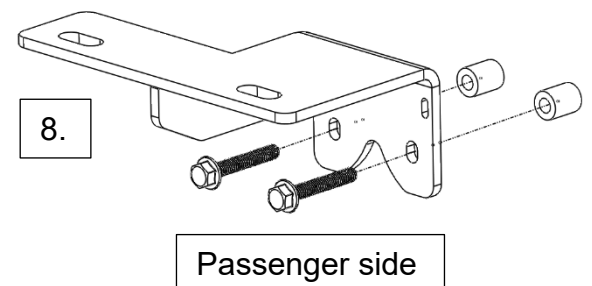
Some trims may not have the black plastic covers



7. Using a 10mm socket remove the two bolts securing the L shaped bracket on one side as seen to the right.

8. Install the provided brackets using the spacers and flange bolts provided. Only install one bracket at a time to prevent bracket from falling.

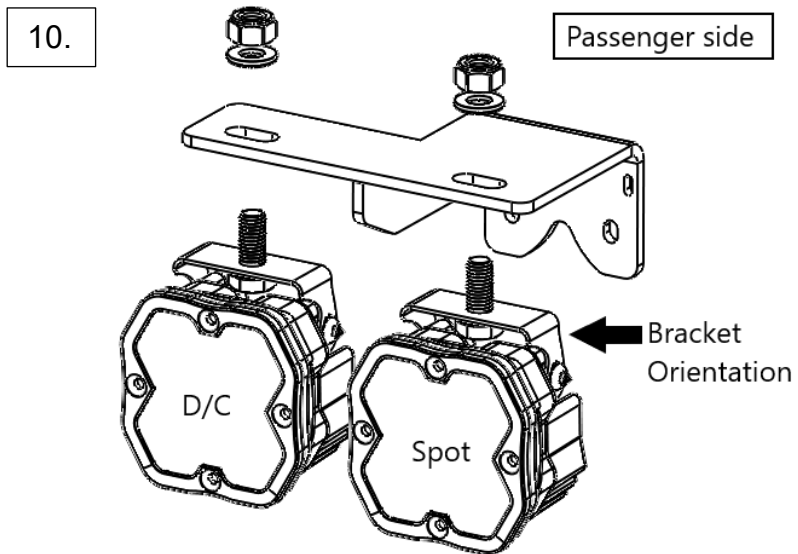
Verify brackets are level after tightening



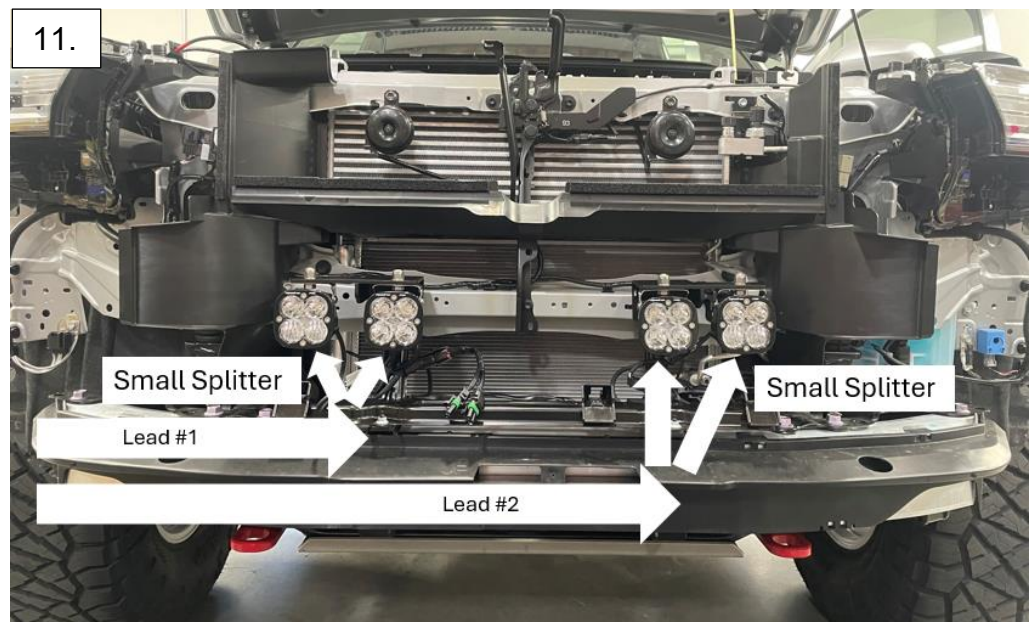
9. Use a 4mm hex and the parts bags provided to attach the universal brackets to all squadron 2.0 lights.

Lights will be mounted upside down

10. Use a 9/16 wrench and ratchet/socket to install lights onto both brackets. Match the location to the lens as seen in the image to the right. Spot lens light must be towards the center of the vehicle. Verify lights are level and straight.

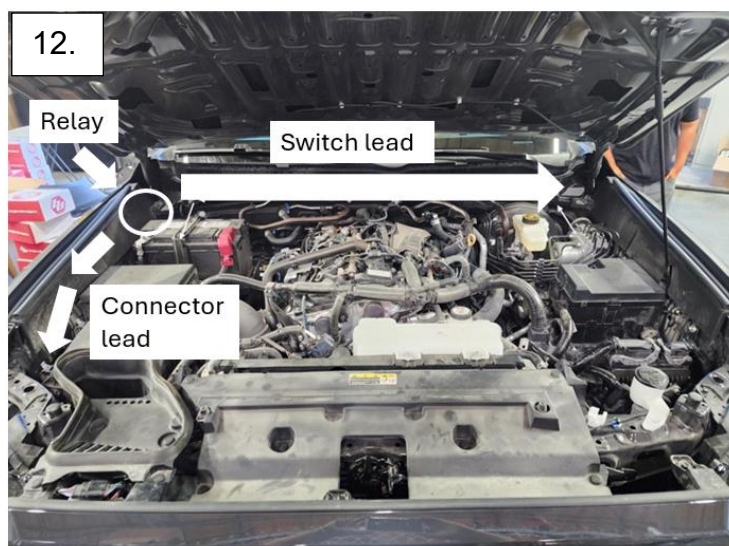


11. Wire the passenger side pair of lights together with the small splitter. Repeat on the driver side.



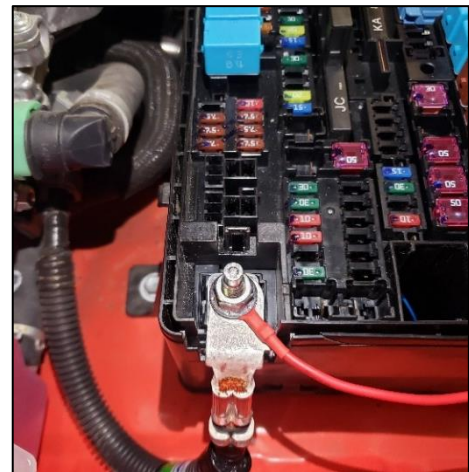
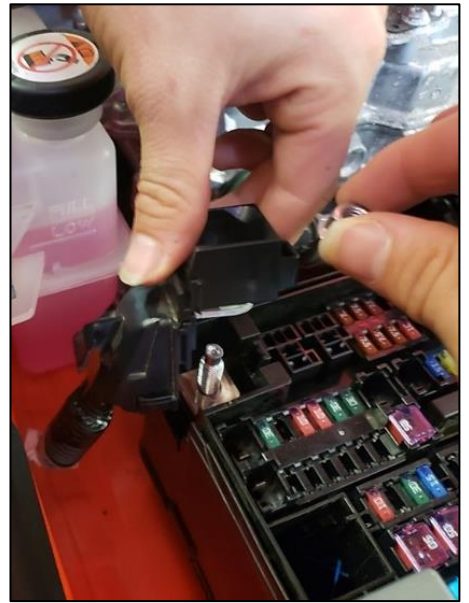
12. Secure the harness to the battery terminals. **DO NOT RECONNECT THE VEHICLE BATTERY. For hybrid vehicles refer to directions on the following page.** Loosely secure it around the passenger side fuse box. Run the switch lead along the firewall towards the driver side. Run the two connector leads underneath and in front of the passenger side headlight. Connect the connector leads to the small splitters in step 11.

For upfitter instructions, skip to step 19.

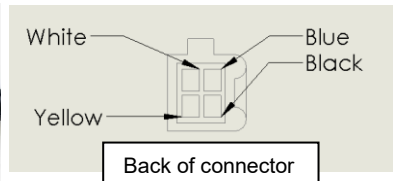
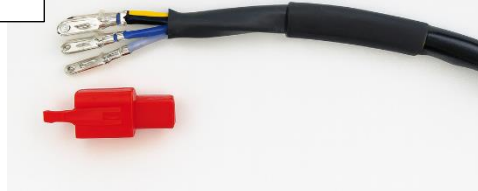


Hybrid Vehicles ONLY

Remove the passenger side fuse panel cover and locate the positive battery wire and post (boxed). Using a 12mm socket, remove the nut holding down the wire and release the tab to the right of the post. Lift to remove the wire and plastic wire cover. Twist to pull apart the top of the plastic cable cover until it resembles photo. Using a flat head screwdriver, release the 2 tabs on the bottom of the plastic wire cover until the two halves separate and remove them from the wire. Discard the piece that the wire terminal runs through. Replace the battery cable and install the positive (red) ring terminal of the main wiring harness onto the post. Replace the upper battery cable cover, reinstall the 12mm nut and replace the fuse box cover.



13.



13. Disconnect the white or red connector on the switch lead and remove the connector from the switch side leaving the pins exposed.

14. Make a small hole in the firewall passthrough and pass the switch lead connector through the boot into the engine bay (pin side first). Wire emerges below the brake booster (driver side).

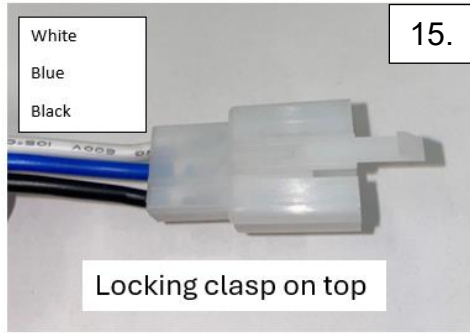
13.



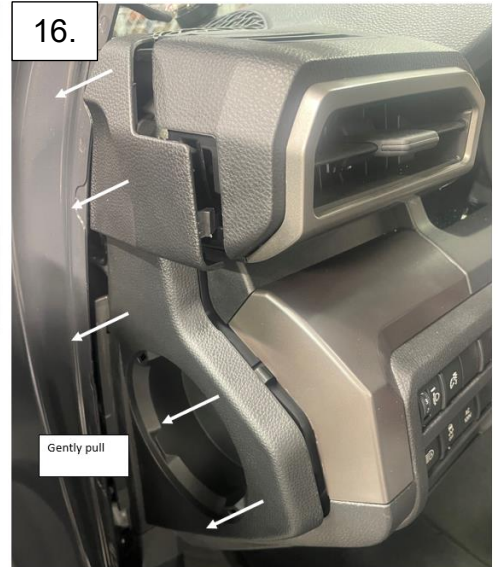
14.



15. Pull the switch lead into the engine bay until it is long enough to be reconnected to the original harness. Re-install the white or red connector onto the exposed pins using the format below and then reconnect the two harnesses. For red connectors, refer to step 13.



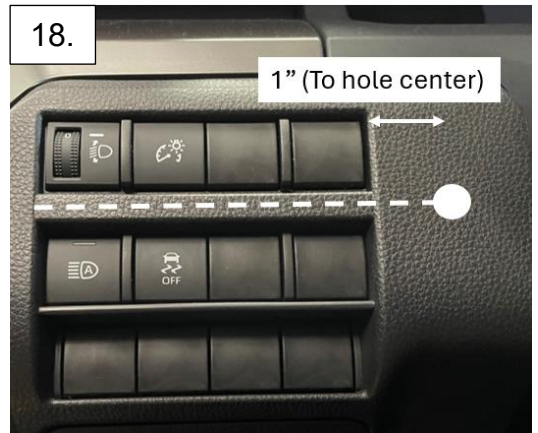
16. Remove the driver's side door seal and the trim panel off the side of the dashboard by starting at the top edge and gently pulling away from the dash.



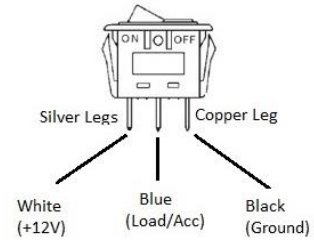
17. Remove the chrome trim panel by pulling parallel to the arrows pictured.



18. Drill a hole .75" in diameter at the location specified. Remove the button from the switch harness leaving only the exposed pins. Run the harness up from the footwell behind the dash and into the newly made hole. Re-install the button onto the harness and place it into the dashboard. Re-install all trim panels.



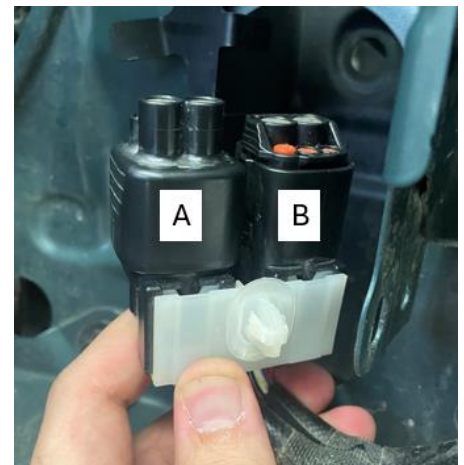
BD Lighted Rocker



Upfitter ONLY

19. Remove the OEM connector plug A & B from the harness behind the driver side headlight.

For vehicles without upfitter switches, skip to step 21.



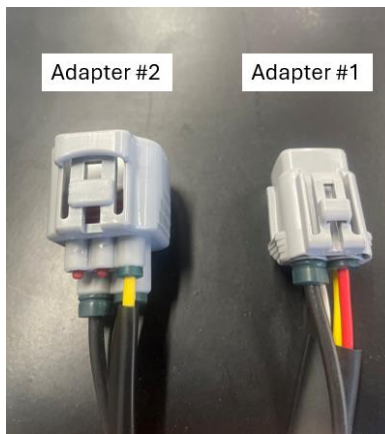
20. Plug in the provided adapters and run the harnesses to the end of the toggle harness from step 12. Disconnect the switch from the standard harness leaving only the 3-pin white or 4-pin red connector. If you have a red connector, be sure to remove the white connector and install the red connector onto the harness. Connect the two harnesses using the appropriate connector from the list below. Tie away any slack using the zip ties provided.

IGN: Connect your harness to yellow wire (Baja Designs adapter #1)

Aux 1: Connect your harness to red wire (Baja Designs adapter #2)

Aux 2: Connect your harness to yellow wire (Baja Designs adapter #2)

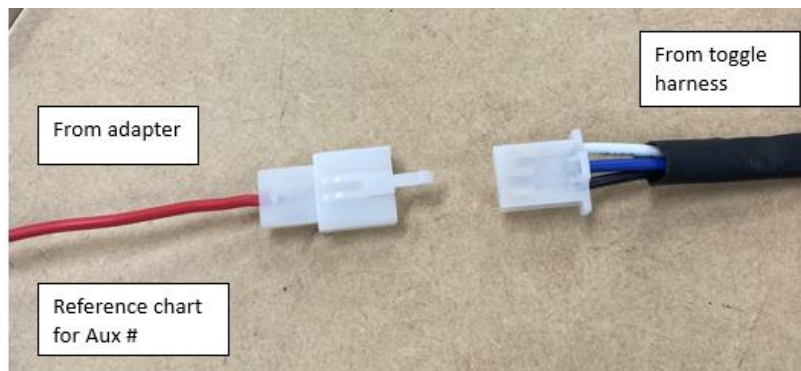
Aux 3: Connect your harness to red wire (Baja Designs adapter #1)



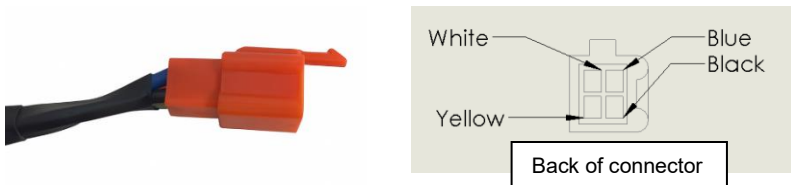
For reference
 Adapter #1 has smaller sheathing with only 2 wires inside.

21. Reinstall the grill loosely and install the three fasteners from step 5b.

22. Re-connect the 5X connectors from step 3. Re-connect the battery. Test the light/switch combination is correct.



Some kits may have a red connector



23. Fully clip the grill in place. Install all fasteners. Complete steps 1-5 in reverse.

Installation complete!

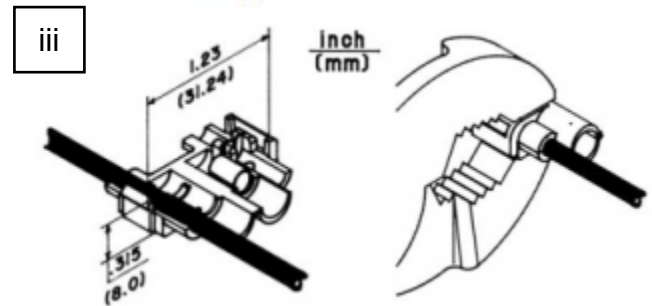
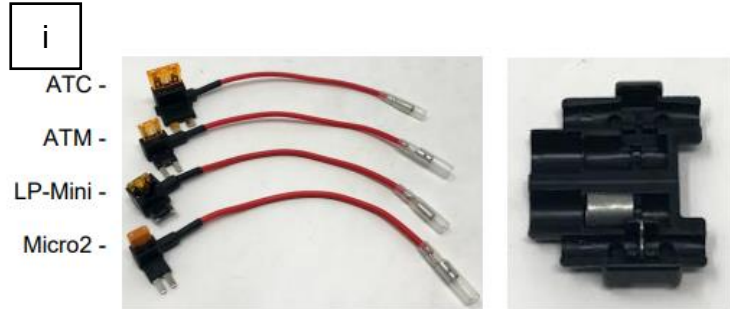
*Tie all wires away from sharp, hot, and/or rotating components.
 * Re-torque all the fasteners after 100 miles.
 *Your install is now complete! Thank you for choosing Baja Designs.

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)

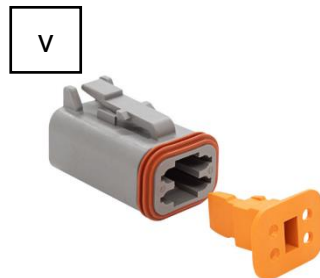
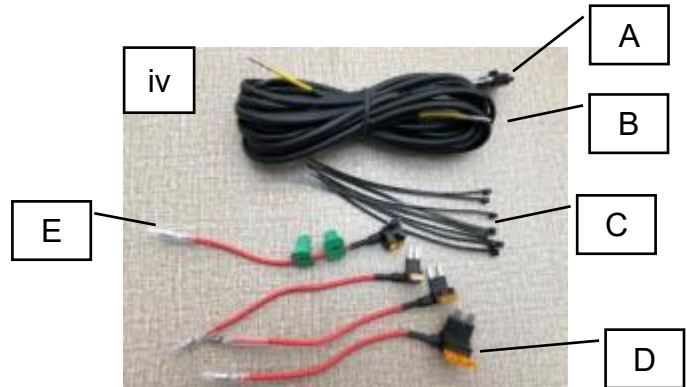
Tools Required	
- Trim Tool (Or Flathead Screwdriver)	- Test Light, or Multimeter
- Scissors	



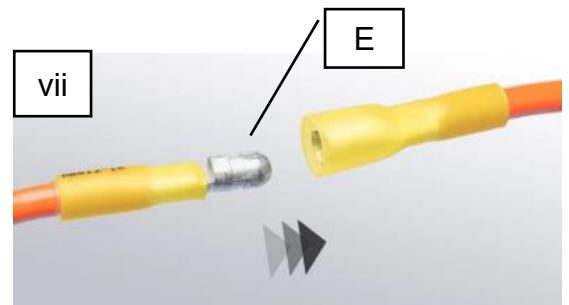
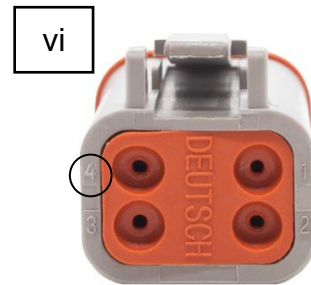
Fuse tap kit part #: 63-9209

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