



baja designs[®]
The Scientists of Lighting

**44-0018, 44-0019, 44-0020, Aftermarket Fog Pocket
Kit Fits Squadron 2.0 21-On Ford, Raptor**



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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.

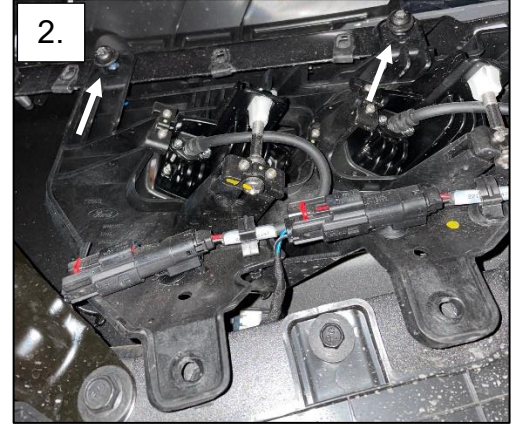
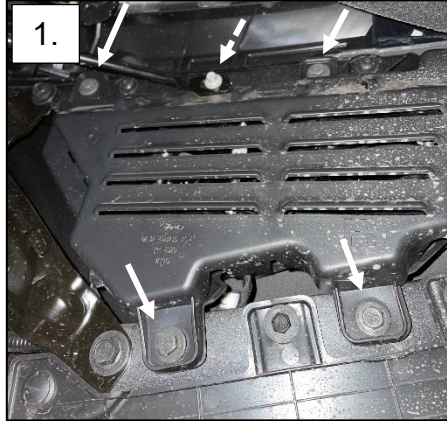
Buyer is responsible for ensuring that it uses the products (and its vehicle) in accordance with all applicable laws, regulations, guidelines, and standards of care. Buyer acknowledges that some products may only be used when off-roading, and Buyer will comply with all vehicle and road safety guidelines. 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

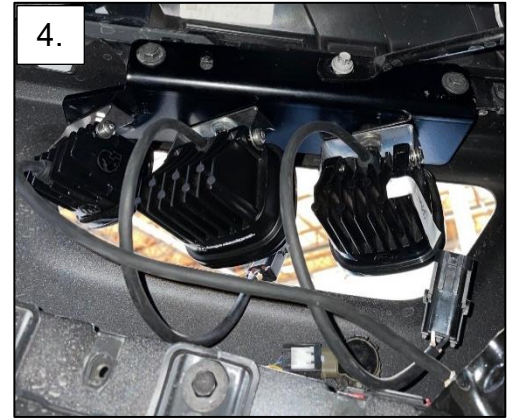
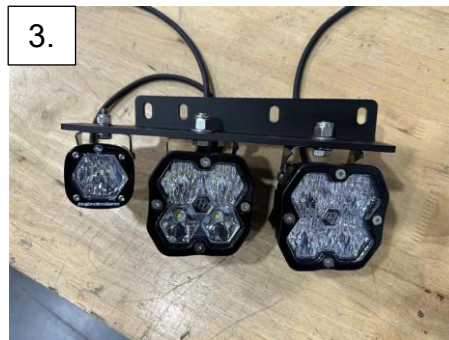
- * Trim Removal Tool
- * 7mm, 10mm, 12mm, 7/16", 9/16", t-40 torx socket
- * 7/16", 9/16" wrench
- * 4mm, 5mm Hex Key

Installation Warning: If this kit is not replacing the OEM fog lights and is an addition to the vehicle, you will possibly need to purchase the Raptor Gen 3 Fog Pocket fastener kit.

1. Using a 10mm socket, remove the 4x bolts securing the fog light splash guard (↖). Use a 8mm socket to remove the 1x fasteners securing the bumper support (↖). Loosen the bumper support bolt on the other side and place the support to the side.
2. Using a t-40 torx bit, remove the 2x bolts securing the top of the fog light bracket. Unplug the 2 lights from the OEM wiring by pulling back on the red tab and pushing down on the release tab.



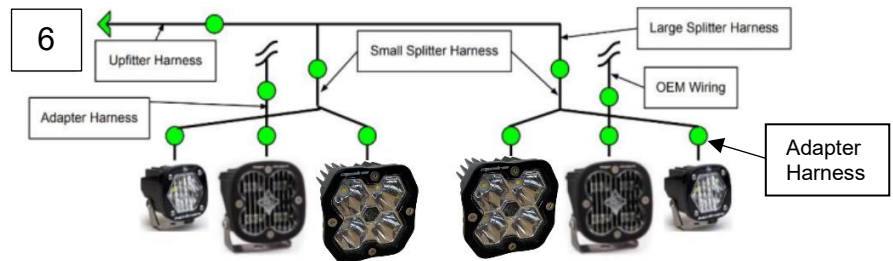
3. Using a 7/16 wrench and socket attach the S1 to the bracket. Using a 9/16" wrench and socket, attach the 2x squadrons to the bracket. Only lightly fasten the lights to leave some adjustability for the installation.
4. Mount the bracket using the OEM fasteners. Lightly fasten the bolts to leave some adjustability.



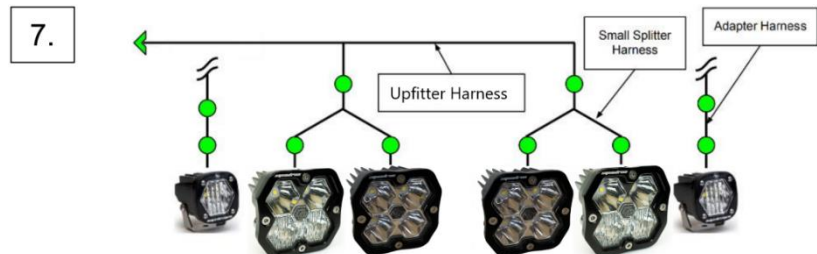
5. Check the lights alignment with the front of the vehicle and the fog pocket opening. Rotate the bracket if needed. Adjust the lights accordingly. Once adjusted, Remove the bracket, torque down the lights and re-attach the bracket.



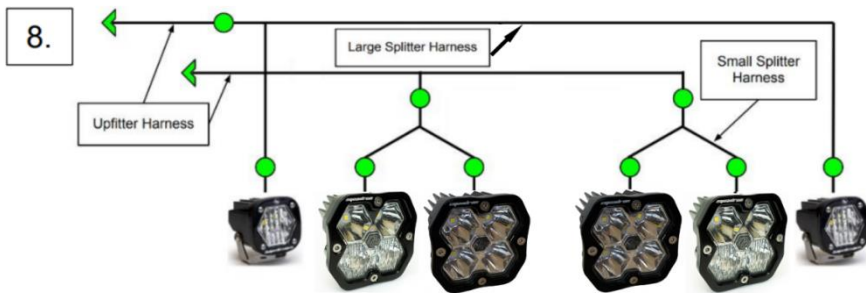
6. **SAE Kit (OEM Wiring):** Connect the S1 & Squadron 2.0 spot together with a small splitter harness. Note the S1 requires an adapter harness to be connected to the small splitter. Connect the SAE light to the OEM wiring with the adapter harness. Connect driver side and passenger side together with the large splitter harness. If there is no OEM wiring, see step 8.



7. **Sport/Pro/Unlimited (OEM Wiring):** Connect the Squadron 2.0 spot & driving combo together with a small splitter harness. Connect the S1 to the OEM wiring with the adapter harness. Connect driver side and passenger side together with the large splitter harness. If there is no OEM wiring, see step 8.



8. Sport/Pro/Unlimited (AUX Wiring):
 Connect the Squadron 2.0 spot & driving combo together with a small splitter harness. Connect the S1's together with a large splitter harness. Connect driver side and passenger side squadrons together with the large splitter harness.



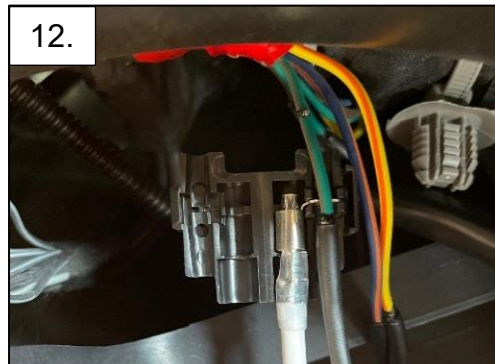
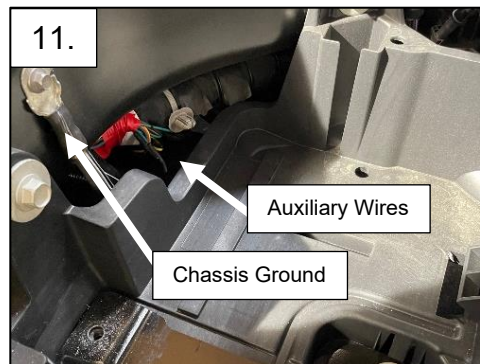
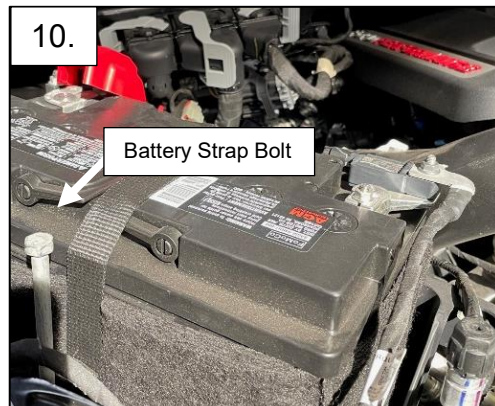
9. Plug in the Up-fitter wiring harness into the splitter harness. Route the up-fitter harness to the battery.

10. Using a 12mm socket, remove the battery strap. Using a 10mm socket, remove the battery terminals starting with the ground (black) terminal.

11. Once the battery is removed, locate the auxiliary wires underneath the engine bay sheet metal on the passenger side. Take the supplied wiring harness and place the 3/8" ring terminal on the black wire onto the chassis ground directly above the auxiliary wires.

12. Separate the auxiliary wires. Use the appropriate Auxiliary wire (see Table) for the main power (White Wire). Take the clasp connector on the up-fitter harness and close over the desired wire using pliers.

13. Repeat steps 1 and 2 in reverse to reassemble.



If the vehicle came with OEM fog lights

Kit	Light	Switch
Sport	Squadron 2.0s	1-4
	S1	OEM Wiring or Any Switch
Pro	Squadron 2.0s	2-3
	S1	OEM Wiring or Any Switch
Racer	Squadron 2.0s	2-3
	S1	OEM Wiring or Any Switch
SAE	SAE	OEM Wiring or Any Switch
	Squadron 2.0/S1	1-4

Aux 1	Violet/Green
Aux 2	Green/Brown
Aux 3	Green/Blue
Aux 4	Brown
Aux 5	Blue/Orange
Aux 6	Yellow/Orange

If the vehicle did not come with OEM fog lights

Kit	Light	Switch
Sport	Squadron 2.0s	1-4
	S1	Any Switch
Pro	Squadron 2.0s	1-2
	S1	Any Switch
Racer	Squadron 2.0s	1-2
	S1	Any Switch
SAE	SAE	Any Switch
	Squadron 2.0/S1	1-4

Aux 1	Green/Blue
Aux 2	Green/Brown
Aux 3	Violet/Green
Aux 4	Brown
Aux 5	Blue/Orange
Aux 6	Yellow/Orange

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

* Re-torque all the fasteners after 100 miles.

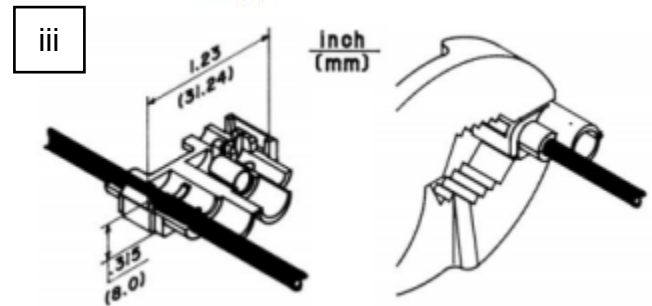
*Your install is now complete! Thank you for choosing Baja Designs.

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)

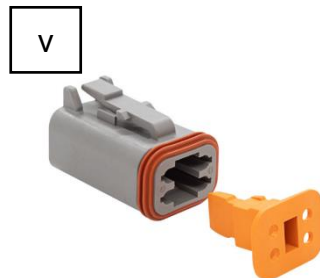
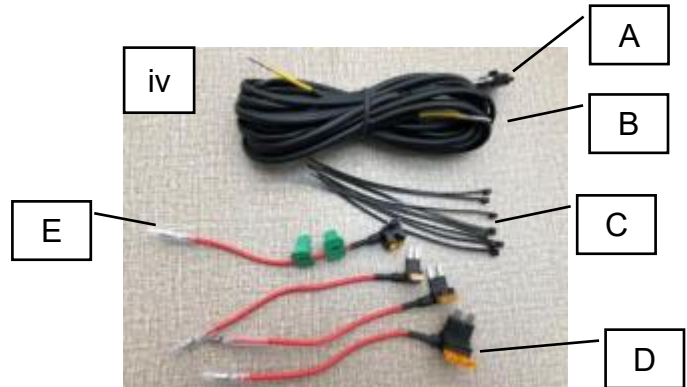
Tools Required	
- Trim Tool (Or Flathead Screwdriver)	- Test Light, or Multimeter
- Scissors	



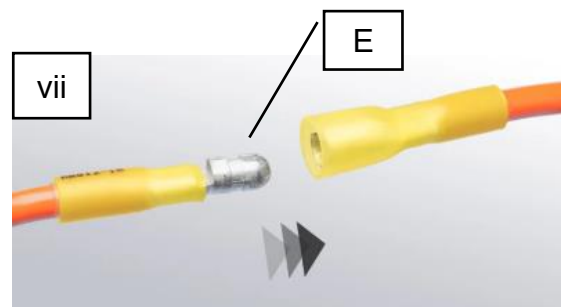
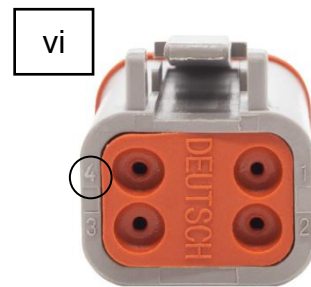
Fuse tap kit part #: 63-9209

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