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*The Scientists of Lighting*

## **Ford, Raptor 2017-2020 Fog Pocket Kits**

**44-0052, 44-0061, 44-0062, 44-0063, 44-0064, 44-0065, 44-0066, 44-0069, 44-0070**



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## LIMITED LIFETIME WARRANTY

Baja Designs proudly offers a LIFETIME WARRANTY against manufacturer's defect on all of 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 particular 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.



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### Instructions:

1. Locate bumper support rod underneath the vehicle. Loosen the inner bolt (white arrow) and remove the outer bolt (white circle) holding the support rod. Once the outer bolt has been removed and the inner bolt is loose swing the support rod out of the way. (Figure 1)



FIGURE 1

2. Mount bracket in position shown in photo below using the two supplied bolts, four washers, two lock nuts and the factory bolt to secure bracket to vehicle. Tighten all bolts, adjust lights to preferred position, and then fasten lights.



FIGURE 2

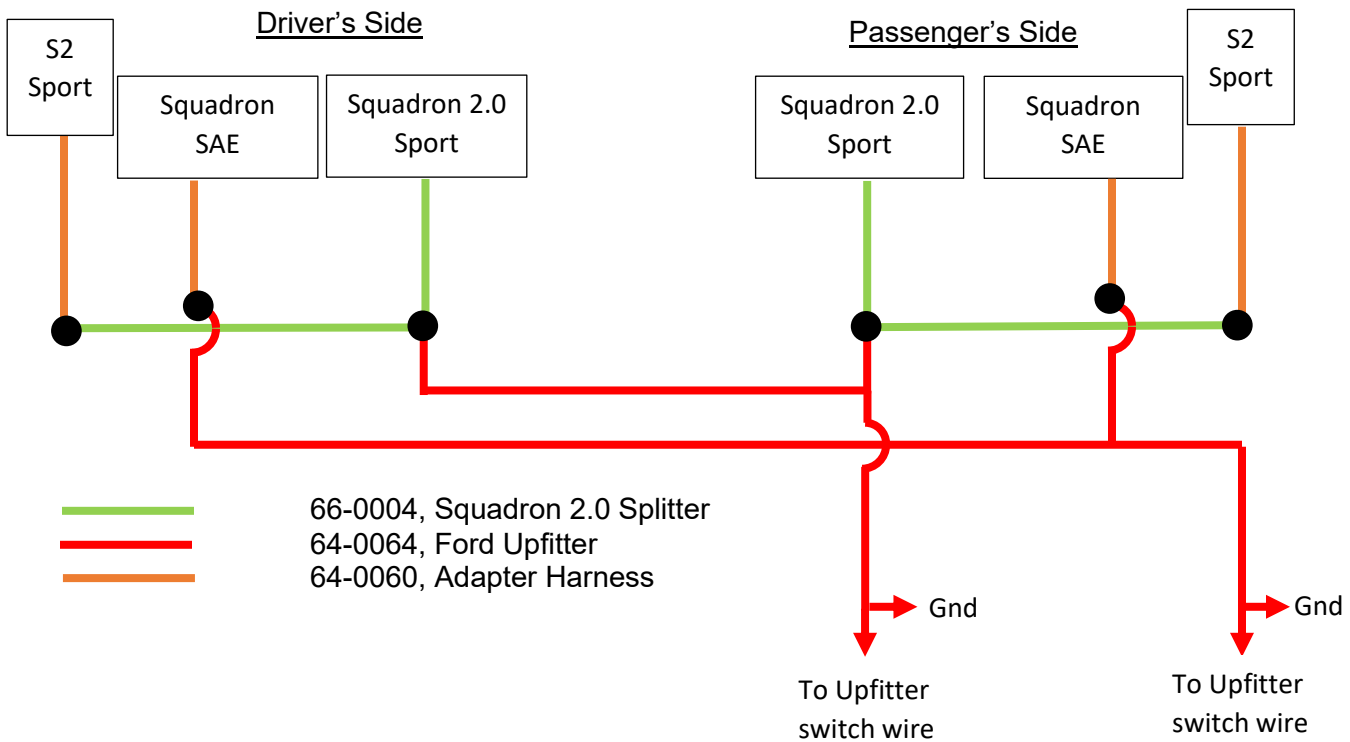
3. After both fog pocket kits and lights are installed, zip tie excess wiring to the support rod to keep wiring from being damaged. Attach harnesses along the frame rail beside the stock wiring harness or brake line.



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4. Refer to the owner's manual for a 15amp auxiliary switch, and the appropriate wiring colors – **SEE NEXT PAGE**
5. Once you have determined the appropriate wire color, attach the white wire of the supplied up-fitter harness to the wire of choice by using the included splice connector. Then attach the black wire of the up-fitter harness to the battery/chassis ground.

### Raptor \*44-0069 & 44-0070 kits ONLY\* Fog Pocket Wiring Diagram



Connect each Baja Designs upfitter harness (+) positive white wire to the desired AUX switches and mount the (-) negative black ground wire to a chassis ground. Confirm that each AUX switch has the adequate amperage rating for the total combined amperage of the lights connected to it. The Ford OEM upfitter wires are located on the passenger side firewall taped to the wires that pass through.

**NOTE:** There are two bundles of taped wires near this location. The wires nearest the engine are to be used for this kit. The other wires are routed into the cab of the truck for switched auxiliary interior accessories.

#### 2017 Colors

Aux 1 - Green/Blue	15A
Aux 2 - Gray/Yellow	15A
Aux 3 - Violet/Orange	10A
Aux 4 - Brown/Blue	10A
Aux 5 - Gray/Orange	5A
Aux 6 - Yellow/Violet	5A

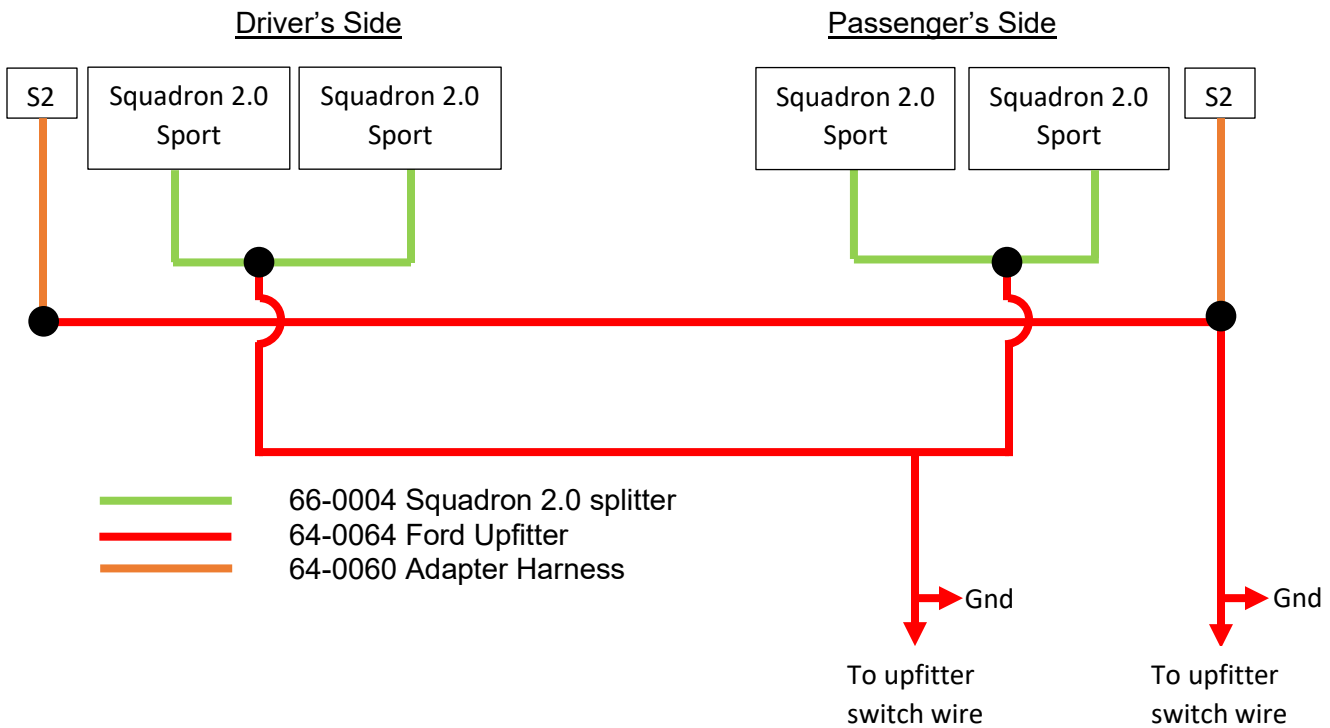
#### 2018+ Colors

Aux 1 - Green/White	15A
Aux 2 - Brown/Blue	15A
Aux 3 - Gray/Yellow	10A
Aux 4 - Green/Yellow	10A
Aux 5 - Brown/White	5A
Aux 6 - Green/Orange	5A

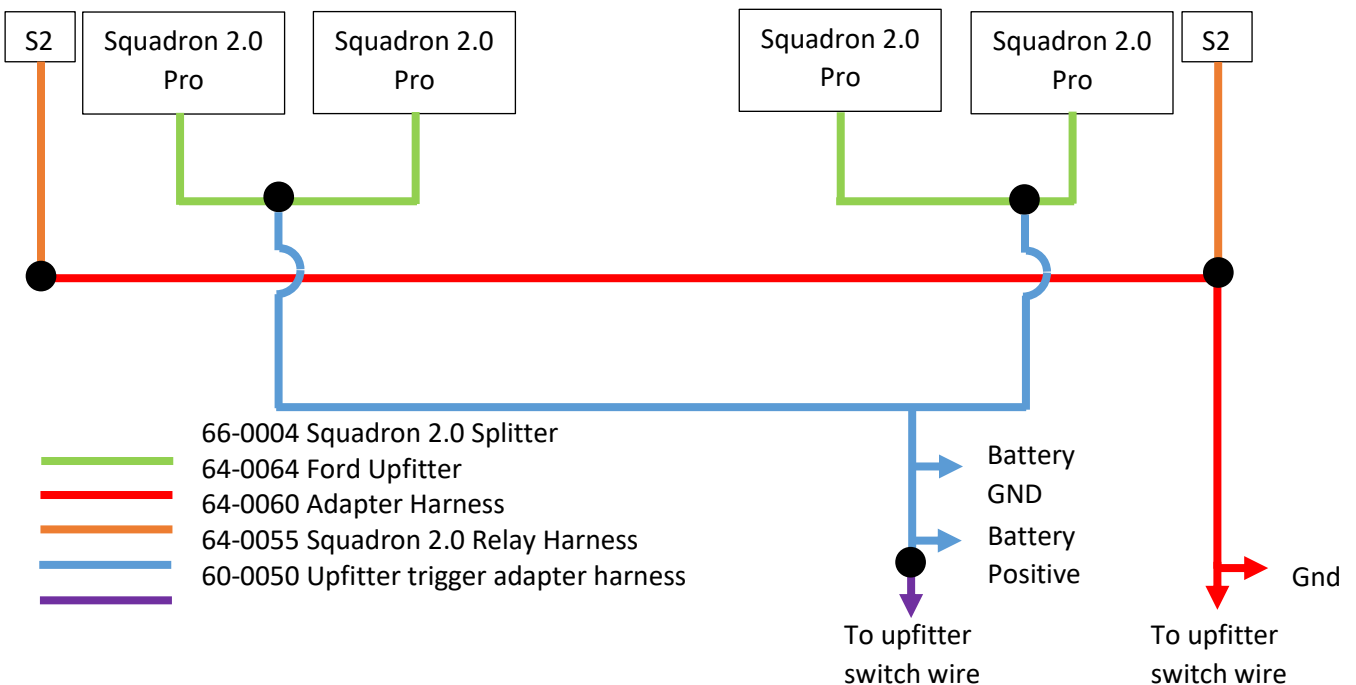


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Raptor \*44-0052, 44-0061, 44-0062, 44-0064 kits ONLY\* Fog Pocket Wiring Diagram



Raptor \*44-0063, 44-0065, 44-0066 kits ONLY\* Fog Pocket Wiring Diagram





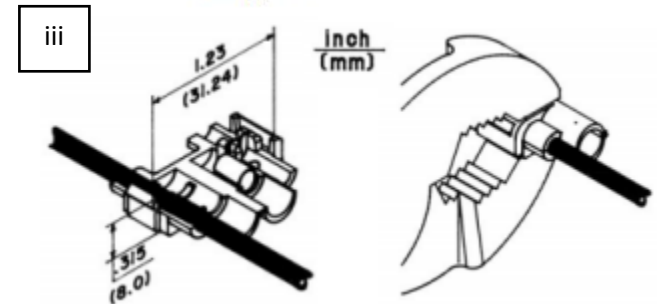
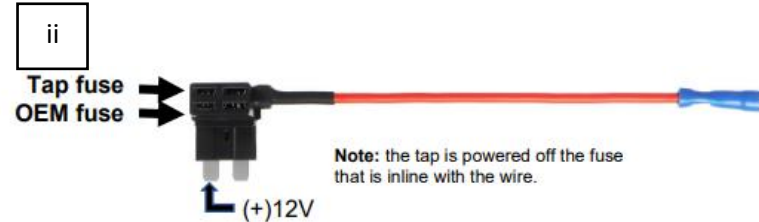
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### Backlight add-on harness instructions for Squadron 2.0

**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).

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

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)



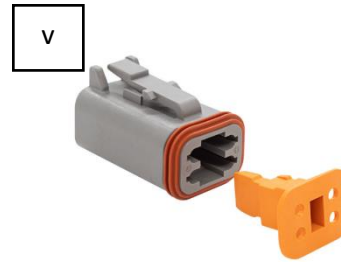
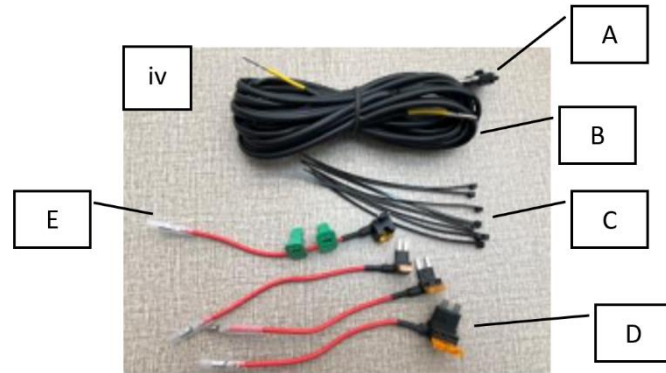
Fuse tap kit part #: 63-9209



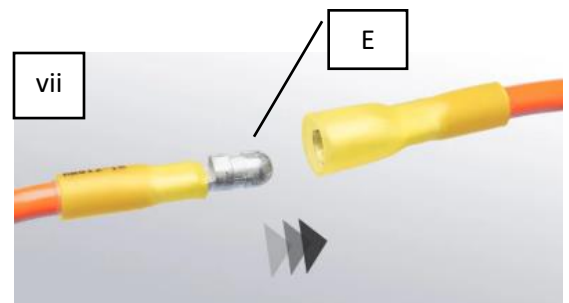
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### Backlight add-on harness instructions

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





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### 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 vehicle on and rapidly 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