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Ford Bronco (21+) Squadron 2.0 and Dual S2 Steel Bumper Fog light kit Instructions



2950 Norman Strasse Rd • San Marcos • CA • 92069

Phone 760-560-2252 • Fax 760-560-0383

info@bajadesigns.com • www.bajadesigns.com



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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.

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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.

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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.

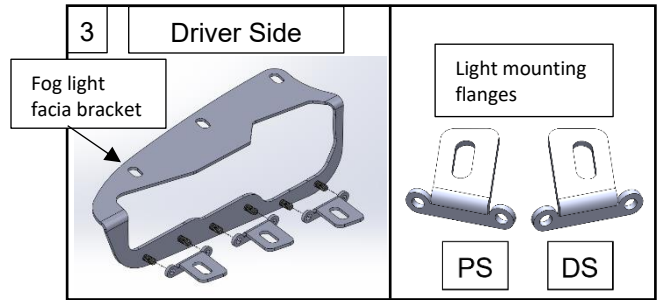
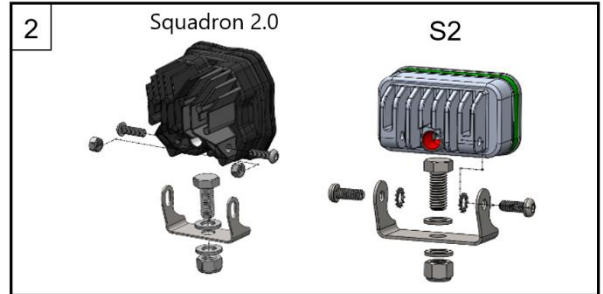
Buyer is responsible for ensuring that it uses the products (and its vehicle) in accordance with all applicable laws, regulations, guidelines, and standards of care. Buyer acknowledges that some products may only be used when off-roading, and Buyer will comply with all vehicle and road safety guidelines.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

Ford Bronco 21+ Steel Bumper Fog Pocket kit Instructions

Tools Required

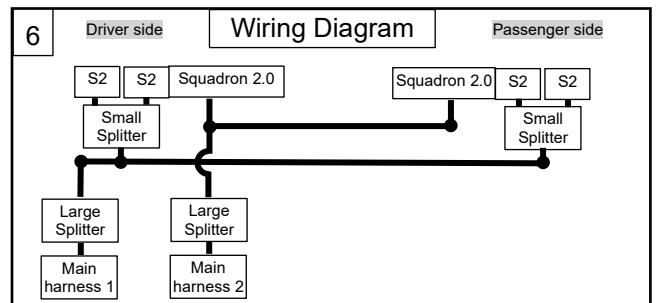
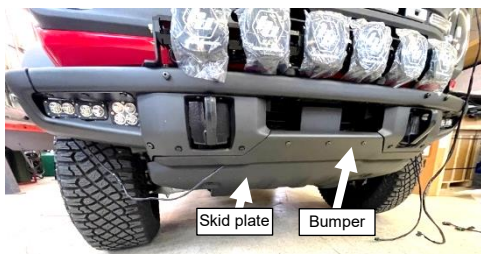
- 10mm and 1/2" Wrench (battery tools)
- Pliers
- Electrical tape
- T40 Torx bit
- 3/4 Drill (non-upfitter models)
- 9/16", and 10mm Sockets
- 9/16" wrench
- 4mm Allen Wrench

1. To begin, place the vehicle in park, turn off and disconnect the negative battery terminal (1/2" wrench).
2. Locate the Squadron 2.0 and S2 lights with the brackets and parts bags. Hand thread together the 3/8" hardware through the brackets. With the 4mm Allen wrench, assemble the brackets to the lights as shown using the 6mm button heads. Repeat for all six lights.
3. With the provided 1/4-20" hex nuts and 1/4" washers, attach the driver side light mounting flanges to the main driver side fog light facia bracket over the pressed in studs. Take note the orientation of the mounting brackets. They differ from passenger to driver side.



(Note: do not use power tools on pressed in hardware)

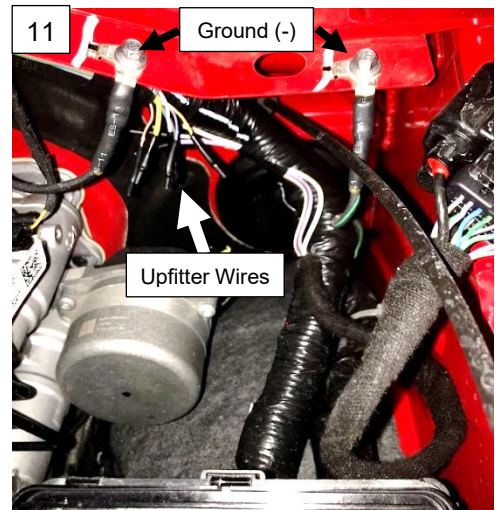
4. Now with the 9/16" wrench and socket, mount each light to the Baja designs fog light bracket assembly with the 3/8" bracket hardware (hardware not shown). The Squadron 2.0 mounts in the largest opening, while the S2s mount in the double opening. (Driver side shown) Repeat for the other side.
5. Locate the three bolts inside the top surface of either fog light opening in the bumper. Use the T40 bit to remove the bolts, mount the fog light assembly, replace the bolts and tighten. (Driver side shown). Repeat for the other side.
6. Included are two small splitter wiring harnesses and two large splitter harnesses. Reference the wiring diagram to the right and begin wiring from the driver side fog light. The large splitters will need the upstream connector placed on the driver side. The wires can pass through the split from the bumper to the skid plate. Tie all wires away from hot, sharp, and/or rotating components.



10. The main harness (upfitter or toggle switch) will need to be unraveled. Route the light lead of the harness along the driver side inner fender away from any hot, sharp, and/or rotating components. Continue routing the harness down to the driver side fog light behind the headlight. Connect each main harness lead to the large splitters. Remove the slack and tie the harness as needed, pulling up into the engine compartment. Any extra harness length can be tied up and placed into the inner driver side fender.

11. If you purchased the Upfitter switch version:

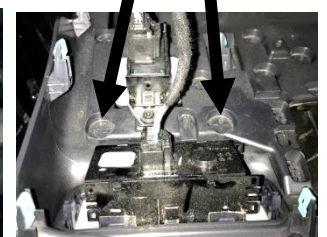
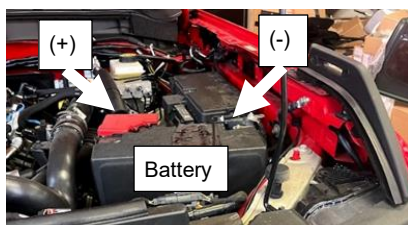
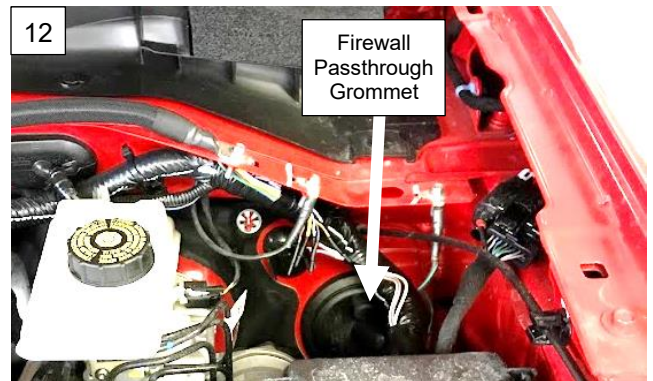
- Locate the bundle of upfitter wires in the back driver side corner taped to the large wiring harness. Pull the tape off to access the wires.
- Reference the table to choose a switch location. We recommend AUX3 – AUX6 for the S2's, AUX 2 for the Squadron 2.0 Sports/ Squadron 2.0 Pros. ***Note that Squadron 2.0 Pros require a butt connector or some form of reliable connection.***
- Using the pliers, clasp the splice connector of the upfitter splice harness over the desired wire/circuit. Repeat for second harness. Wrap the tape back over the remaining wires. Make sure all wires are isolated and add electrical tape as needed.
- Mount the black ring terminal of the splice harnesses to the common ground on the driver side firewall using a 10mm socket wrench.
- Reattach battery ground (-).



Power Distribution Box	Wire Color	Wire Size	Fuse
AUX 1	Yellow	1.5 mm ²	30A
AUX 2	Green/Brown	1.5 mm ²	15A
AUX 3	Violet/Green	0.75 mm ²	10A
AUX 4	Brown	0.75 mm ²	10A
AUX 5	Blue/Orange	0.75 mm ²	10A
AUX 6	Yellow/Orange	0.75 mm ²	10A

12. If you purchased the stand-alone toggle switch version:

- Locate the firewall passthrough grommet on the right side of the brake booster. In the cab, this will be located next to the footrest. Push grommet into engine compartment from the cab.
- There are two easy options for switch locations on the dash in the locations arrowed under the headlight controls.
- Gently pull dash panel away until unclipped. Locate the two circled indentations on the back of the dash below the headlight controls. These are the two suggested switch mounting locations.
- Snap a photo of the switch wiring for reference later. Remove the switch terminals from the switches. Remove the tape around the wires on either side of the passthrough grommet.
- Choose the desired dash locations for the switches. Drill 3/4" hole.
- Thread the wires through the hole in the passthrough grommet, reattach switch terminals, and mount switch. Tape around the wires of the grommet. Install dash panel.
- Mount the (+) and (-) ring terminals of the harness to the corresponding battery terminals starting with the (+) red lead.
- Reattach battery ground (-)



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.

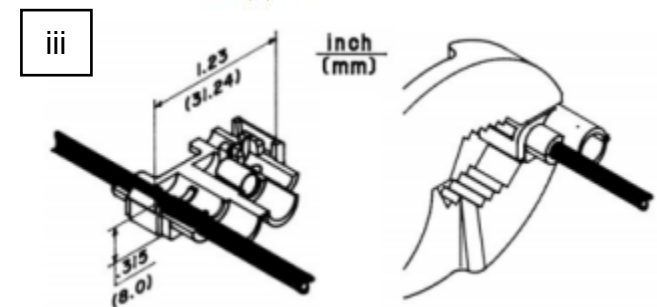
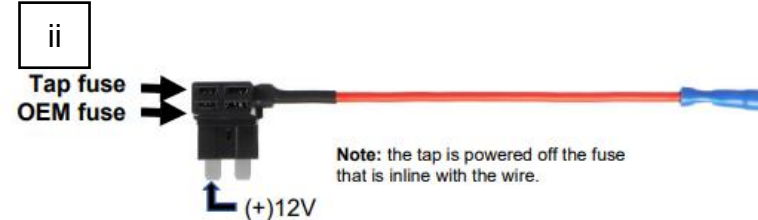
Backlight add-on harness instructions for Squadron 2.0

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, clamp the splice over the desired power wire and clamp with pliers until an audible click is heard. (See image iii for reference)

Tools Required

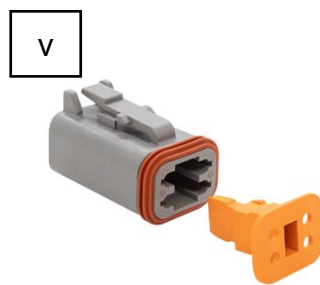
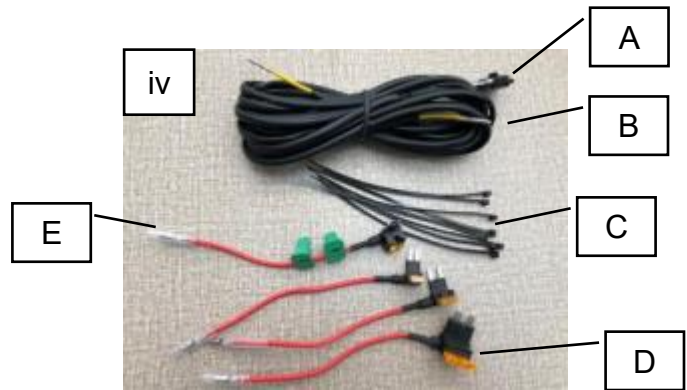
- Trim Tool (Or Flathead Screwdriver)
- Scissors
- Test Light, or Multimeter



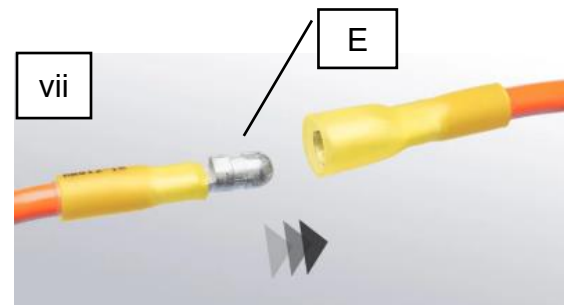
Fuse tap kit part #: 63-9209

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 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