



INSTALLATION INSTRUCTIONS:

THE BUUL

EQUIPMENT NEEDED:

- 1) $\frac{3}{4}$ Wrench
- 2) $\frac{5}{16}$ Allen Wrench
- 3) Wire Crimpers (pliers should work if you don't have a crimper)
- 4) Wire Cutters /& Strippers
- 5) (Recommended) Heat Gun (Lighter)

STEP 1: SLIDE BUUL INTO FACTORY HITCH RECEIVER

- Ensure the wire is run toward the front of the truck and the smaller square tube is on the bottom.



STEP 2: ADD WASHER-SPACERS AS NECESSARY

- Despite what you might think the Ford Factory Hitch receivers aren't perfectly manufactured. Therefore, the distance from the upright on the hitch to the end of the square tube may not be symmetrical.
- This all can be fixed by adding washers as needed to create a flush face between your BUUL and Hitch.



STEP 3: BOLT-ON BUUL

- Using the Allen Wrench and Wrench Bolt the light on



NOTE:

- Wiring the Lights are at the customer's discretion the following steps are recommended wiring procedures.
- We include two wire harnesses in our light kits our included wire harnesses have a long lead and a short lead.
- If the upfitter switch connection point on your vehicle is located on the passenger side of the vehicle run the harness up that side. If it is located on the driver's side, run the harness up the driver's side of the vehicle.
- The last page of this document includes a color decoder for the upfitter switch wire colors. Switches 5 and 6 are hot switches meaning if you turn them on, they will supply power even if the truck isn't running.

WIRING THE BUUL:

- When wiring our BUUL you have the ability to decide how you want your lights to run.
- **Method 1** is to run all 4 light cubes to your upfitter switches.
- **Method 2** is running either the outer light or inner lighter of each pair to the reverse lights.
- Start by deciding which method you prefer
 - **NOTE** the outer light cube in each pair is marked with colored tape

STEP 1: WIRING THE SELECTED CUBES TO THE UPFITTER SWITCH

- Start the wiring process at the rear of the vehicle
- Connect the harness to the light
- Orient the harness for the long side to be run across the vehicle and the long straight portion of the harness to be run up the side where the connection point is located



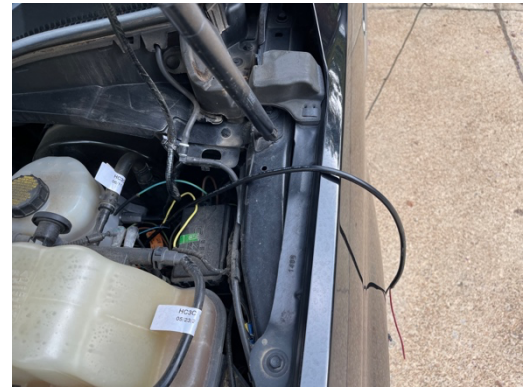
STEP 2: RUNNING THE WIRE

- After connecting run the long wire harness to the front of the truck
- Use zip ties along the way
- We recommend following factory wires to the front
- Pull the wire up from under the truck to the connection point



STEP 3: WIRING THE OTHER 2 LIGHTS WITH THE SMALLER HARNESS

- We recommend you begin wiring the truck underneath
- Start at the long wire harness connection point (where all the wires meet on the long harness) and run the small wiring harness to the light cubes.
 - o This starting point should be somewhere toward the bed frame rail above the spare tire
- From here plug in each light at the back of the truck



METHOD 1: WIRE TO THE REVERSE LIGHTS

NOTE

*Wiring to your reverse lights is at the OWNER'S RISK. We recommend you research before attempting to tap into your reverse lights.

* We are unable to provide the specifics as to what wire to tap into due to the changing models from Ford.

* Armored Ridgeback is in no way liable for any events that occur from incorrectly wired lights.

- Locate your trailer connection wire harness
- Cut open the harness
- Locate the proper wire for your reverse lights
 - o This is where we are unable to provide guidance as it changes per truck
 - o On Our 2017 and 2018 F-250s, it has been the Grey Wire with Orange Stripe
- Crimp the reverse wire with the included wire crimper
- At the end of the small wire harness, you will find no connectors
 - o You will need the Ground Loop and the hard Plastic Male Wire Connector



- This should slide over the wire crimp
- Attach the Ground loop to the black wire and the Wire connector to the red wire
 - Note you may need to strip the wire coating back to reach the ground point and the spliced wire
 - We recommend using a factory screw as the ground point.
- Note you may want to terminate the short lead off of the long wiring harness



METHOD 2: WIRING BOTH LIGHTS TO THE UPFITTER SWITCH

- Attach the short lead of the wiring harness to the full harness with the included blue connectors at the connection point

STEP 3: WIRING THE LONG WIRE HARNESS TO THE UPFITTER SWITCHES & BATTERY

- Cut the wire to the desired length- the wire should reach the factory upfitter wire and the ground.
- Strip both wire leads
- Attach the red wire to the upfitter switch with the wire connector
- Crimp the Ground loop to the black wire
- Remove the factory ground bolt and add the wire connector to the other grounds



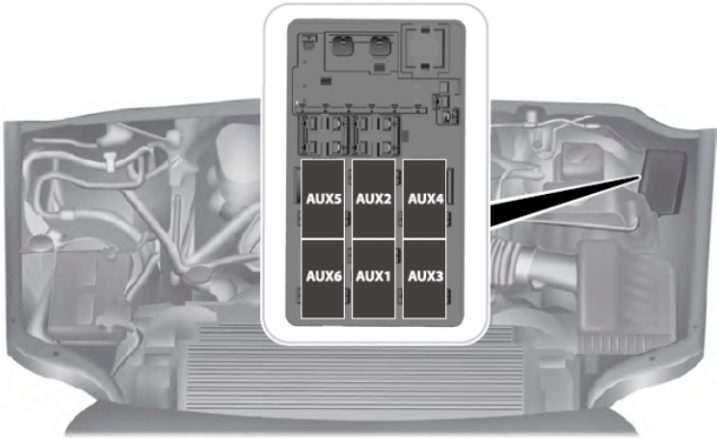
STEP 4: TEST LIGHTS

- Go turn on the upfitter switch you selected and test the lights to insure they work properly



For the Strobe light combo option refer to the pamphlet included in the box, covering the light description. The wire harness is taped in the corresponding color.

FORD UPFITTER COLOR CODE



E220730

The power leads are coded as shown:

Switch	Circuit Number	Wire Color	Fuse Amp Rating
AUX 1	CB117A	Brown with green trace	25A
AUX 2	CB114A	Violet with orange trace	25A
AUX 3	CB116A	Blue with green trace	25A
AUX 4	CB113A	Gray with brown trace	25A
AUX 5	CB115A	Brown with blue trace	40A
AUX 6	CB118A	Gray with orange trace	40A