



DUALY & D2

**FORD® RAPTOR™**

**DUALY & D2**

**FOG LIGHT BRACKET**

**MOUNTING INSTRUCTIONS**



Passenger

Driver

Thank you for purchasing Rigid Industries' products for your Ford®. Installation is fairly simple with the right tools and good mechanical abilities. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. Please read through all of these instructions and tips before proceeding with installation.

**To further understand how your Dually/D2s need to be installed, please read through these installation instructions in their entirety before beginning actual installation.**

**Always disconnect battery before servicing any fuses or electrical system**

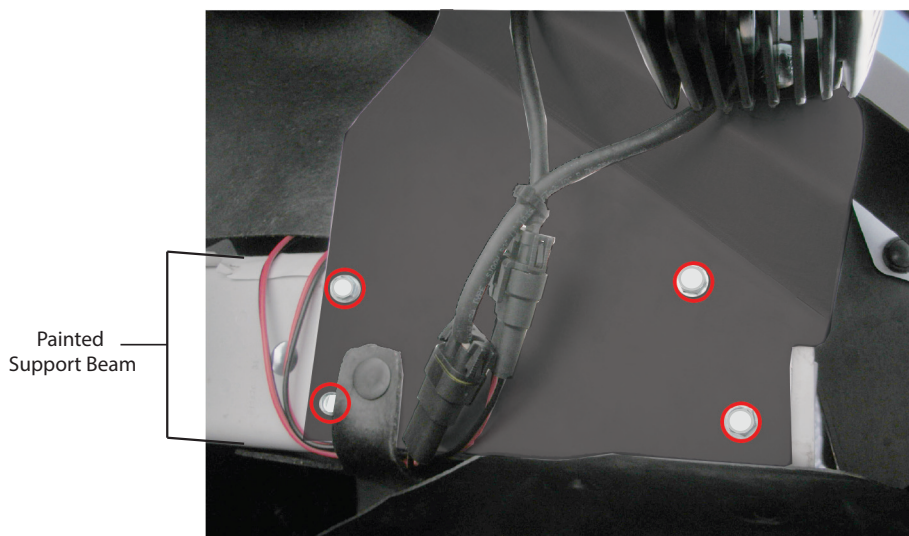
## **STEP 1**

Laying under passenger side of fog light opening, locate painted steel support beam, it should be painted the same color as your truck.

Line up flat side of rear of bracket with backside of support beam and slide it in board against the step down on the beam. The forward edge of the bracket (stepped down section with two holes) should be lining up to your fog light opening. Mark the 4 holes.

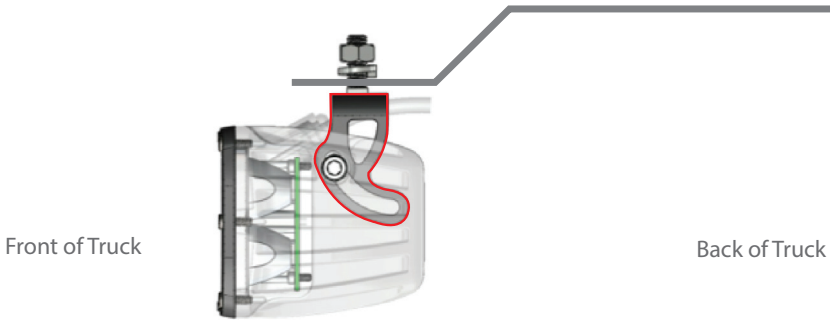
**Drill the two inner-most holes (closest to center of vehicle) using a 3/16" drill bit. Drill the outer holes with a 3/8" drill bit.**

Repeat for driver side, remove black cap plug on beam, reinstall into larger hole in bracket after bracket is in place. Do not mount brackets yet, lights need to be installed onto them first.



## STEP 2

Mounting Dually's to bracket. Noticing how brackets are mounted (stepped down section forward lining up with the fog opening) mount Dually lights on the bottom of the plate so they are suspended from the bracket. Tighten cradle screws (on side of each light) then tighten main cradle stud onto the bracket with supplied hardware. You will need to adjust these. To line them up, hold the bracket in place on the vehicle to get an idea of where you want them placed. Take your time here as they are not as easy to adjust once fully installed.



**Duallys and D2's must be mounted with the curve on the mounting bracket pointing towards the rear of the truck to ensure proper fitment.**

## STEP 3

Install two u-nuts on the edge of the support beam on the driver side. Position them so that the nut holes line up with the holes you have drilled in the beam. Hold bracket with Dually lights in place and install two M8 bolts on the two outer holes with the u-nuts. Then install two 5/16" self-tapping screws with flat washers and lock washers into the two inner holes.

Repeat the mounting process on the passenger side.



Drivers Side with  
Lights Mounted

## WIRING INSTRUCTIONS - AUXILIARY SWITCHES

Your Raptor is equipped with four factory "Upfitter" auxiliary switches. These need to be connected to the OEM output wires. There are two locations that need to be addressed; inside the glove box, and inside the engine compartment under the hood.

### STEP 4

Open the glove box normally and empty out. On the rear right and left sides there are tabs holding the box in place. Place your hands inside of the glove box, reach to the back left and back right, pull in the sides where there is a tab holding it in place. The box should swing downward and towards the floor of the truck.

On the side of the dash area, there is an access panel, pull towards you to remove it and expose the wiring under the dashboard. After removing the access panel you will need to locate two bundles of 4 wires each. These wires are what you will need to mate to gain switch control to your lights.



Glove box tab released.



Wiring bundles after access panel is removed.

### STEP 5

In order to get the switch outputs connected to the pass through wiring that terminates under the hood for Step 8, you need to make the connections below and behind the glove box.

There are 3 wires that are exiting from the wiring harness provided with your lights; red, blue, and black. The red and blue wires are related to the "inside" and "outside" Duallys/D2s. The red and blue wires will be mated with 2 different switches following the wiring diagram and colors below. The black wire is the ground.

	<u>Switch Wire Color</u>		<u>Through Dash Wire Color</u>
Aux switch 1	Yellow	CONNECT TO	Red
Aux switch 2	Green/Brown	CONNECT TO	Green
Aux switch 3	Violet/Green	CONNECT TO	Blue
Aux switch 4	Brown	CONNECT TO	Purple

**The wires passing through the firewall are prewired from Ford.  
The Ford® auxiliary switches are prewired from Ford.**

You will need to mate the prewired auxiliary switch wires to the wires Ford installed that go through the fire wall.







Use butt connectors or solder to mate wiring.

## STEP 6

Each of the factory auxiliary switches are rated for different amperage. This allows you to choose which switch you want to power each lighting option you may install. We highly recommend changing the factory fuse out to the proper fuse size rated for your lights. This will protect your lights from any potential damage from being over fused.

**Note:** You are limited to the factory amperage rating for each switch. So if your lighting requires more amperage for operation than your auxiliary switch is rated for, you cannot use that switch location. Amperage ratings for the OEM switch outputs and a list of required amperage for Rigid Industries Lighting is available in the table on the following page.

## STEP 7

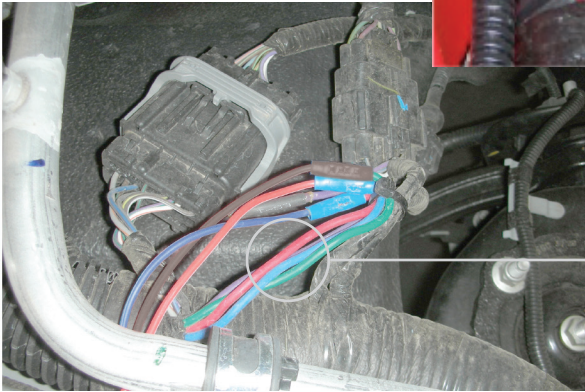
Locate the Power Distribution Box (page 365 in your owners manual). Open the box and notice the fuses are numbered and switch fuses are as follows (page 326-329 in owners manual):

Switch#	Location	Stock fuse
1	18	30amp
2	19	<b>30amp</b>
3	44	<b>15amp</b>
4	28	10amp

## Fuse Ratings Recommended for Rigid Industries LED Lights

50" E-Series	20 amp fuse
40" E-Series	20 amp fuse
20" E-Series	10 amp fuse
Dually/D2 (Pair)	5 amp fuse

Wires before mating to  
Rigid Industries wiring harness.



- Switch 1 - Red Wire
- Switch 2 - Green Wire
- Switch 3 - Blue Wire
- Switch 4 - Purple Wire

Engine compartment wiring connected to light harness.

## STEP 8

On the passenger side of the truck, locate the under hood OEM wiring above the wheel well. There will be four colors; red, green, violet, and blue, with heat shrink around the ends. Refer to your owner's manual if you need help locating these. These are the switch outputs that we connected under the dash in Step 6. Connect the power wire from the wiring harnesses provided in your kit to the switch output desired. Route the other end (male weather pack connector) down behind the headlight bucket to your lighting. The black ground wires can be grounded to passenger side inner fender by using a factory bolt location or by using a self-drilling tek screw.

Standard grounding principles apply.



**Your installation is now complete.**

**Welcome to the Rigid Nation!**

### ALSO AVAILABLE FOR YOUR RAPTOR

Description	Part #
<b>Raptor Roof Mount Kit</b>	40327
<b>50" E-Series Light Bar</b>	15011, 15021, 15031
<b>Upper Grille Kit 40"</b>	40236
<b>40" E-Series Light Bar</b>	14011, 14021, 14031
<b>Lower Grille Kit 20"</b>	40133
<b>20" E-Series Light Bar</b>	12011, 12021, 12031

### WARRANTY INFORMATION

Rigid Industries warrants that this product will be free from defects in material and workmanship. If you believe your Rigid Industries product is defective, it must be returned to Rigid Industries for inspection by our warranty claims department. If, after inspection, Rigid Industries verifies that the defect was not caused by negligence, abuse, unauthorized repair or disassembly, Rigid Industries will determine whether the product will be repaired or replaced in accordance with Rigid Industries Limited Lifetime Warranty\*.

**Warranty Periods:**

- All LED Lights – Limited Lifetime
- Accessories and Mounts – 2 years

**Warranty Coverage:**

To begin your warranty claim, you must have a Return Merchandise Authorization (RMA) number. To get your RMA number, please contact our warranty department by phone at 480-655-0100 ext. 1008, or by filling out the Return Merchandise Authorization Form on our website.

**All of the following will immediately void all warranties:**

- Customer negligence – The customer has modified the light and/or is not using it for the recommend application.
- Customer abuse – Damage to the light beyond normal wear and tear.
- Repair work done by unauthorized personnel without Rigid Industries' approval.
- If the light has been opened or any screws have been removed.

All warranties are non-transferable. Warranty terms and policies are subject to change without notice.

\*For all information regarding the Rigid Industries' Limited Lifetime Warranty please call 855-760-5337 ext. 1008, email [warranty@RigidIndustries.com](mailto:warranty@RigidIndustries.com), or visit our warranty page online at [RigidIndustries.com/Warranty](http://RigidIndustries.com/Warranty).

**FOLLOW US ON FACEBOOK AT**  
**[facebook.com/RigidIndustries](https://www.facebook.com/RigidIndustries)**

779 N Colorado St, Gilbert, AZ 85233 • 1-855-760-5337 • [www.rigidindustries.com](http://www.rigidindustries.com)

PKG-IS-089 REV03

Rigid Industries, E-Series, D-Series, Dually, and D2 are registered and/or unregistered trademarks of JST Performance, Inc. d/b/a Rigid Industries.