



# Speed Demon<sup>TM</sup> LIGHTS

## Installation Guide for 2009-2014 Ford Raptor Fog Light Mount (10-30088)

### Parts Included

2 Light Brackets

### Tools Required

Miscellaneous Hand Tools

### PLEASE READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLATION.

- Application models vary, we recommend to verify fitment before beginning installation process.
- Images featured in the instruction documents may not always exactly match your model or part.

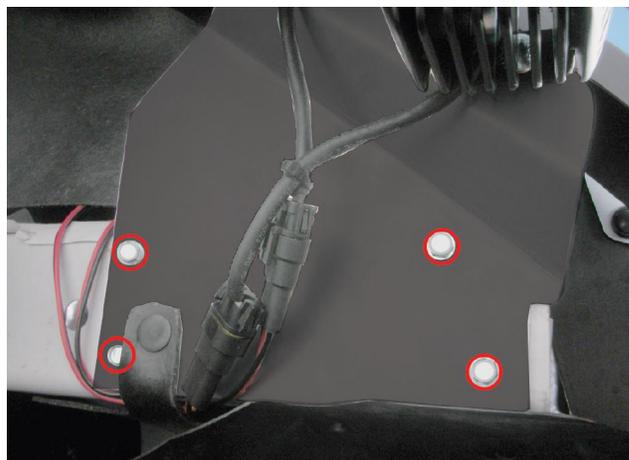
## STEP 1

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 at 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.

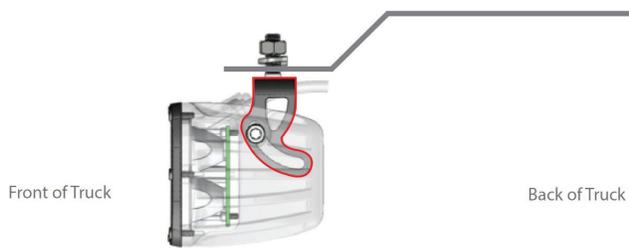
Drill the two inner-most holes (closest to center of vehicle) using a 3/16" drill bit. Drill the outer holes with a 3/8" drill bit.

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 pod's to bracket. Noticing how brackets are mounted (stepped down section forward lining up with the fog opening) mount pod 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. 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.





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### 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 pod 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.

### 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.





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### 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” Pods. 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.

Switch Wire Color		Through Dash Wire Color	
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.





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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 are available in the following table.

### 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	30amp
3	44	15amp
4	28	10amp



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Wires before mating  
to Speed Demon  
wiring harness.



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

### 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 to the switch output desired. Route the other end 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.