



UPPER GRILLE

FORD® RAPTOR®

**40" E-SERIES
UPPER GRILLE
MOUNTING INSTRUCTIONS**



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.

Always disconnect battery before servicing any fuses or electrical system.

STEP 1

The 40" E-Series mounts behind the existing main grille. Open the hood and notice the two black bumpers on both sides of the grille opening towards the bottom. Behind those bumpers are two Torx head screws, remove the screws and the nut clips that the bolts are threaded into. You will use these existing holes to bolt the L-brackets that are included with your light bar.



STEP 2

Install the L-brackets onto the light bar using the supplied Delrin bushing and $\frac{1}{4}$ " x 20 nylon lock nut. Then install the the supplied bolts into the L-bracket on either side of the grille opening to attach the light bar to your truck.

Tighten all hardware.



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 3

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 4

In order to get the switch outputs connected to the pass through wiring that terminates under the hood for Step 7, you need to make the connections below and behind the glove box.

There are 2 wires that are exiting from the wiring harness provided with your light bar; red and black. The red a wire will be mated with a preinstalled OEM wire from Ford® by following the wiring diagram and colors below based upon which auxiliary switch you would like to use. 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 5

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 6

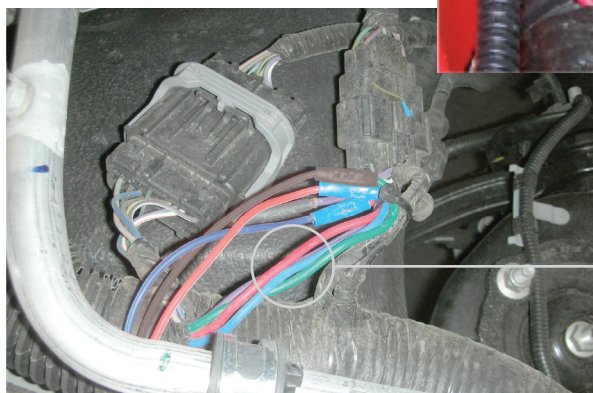
Locate the Power Distribution Box (page 365 in your owners manual).
Open the box and notice the fuses are numbered and switch fuses are as follows:
(page 326-329 in owner's manual):

Switch#	Location	Stock fuse
1	18	30amp
2	19	30amp
3	44	15amp
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 7

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 wires. These are the switch outputs that we connected under the dash in Step 4. Connect the power wire from the wiring harness provided in your kit to the switch output desired. Route the other end (male weather pack connector) down behind the headlight bucket and over to the grill area to your light bar. The black ground wire 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.

CONGRATULATIONS!

**YOUR RIGID INDUSTRIES LED LIGHTS
ARE NOW INSTALLED!**



Welcome to the Rigid Nation!

ALSO AVAILABLE FOR YOUR RAPTOR

Description	Part #
Raptor Roof Mount Kit	40327
50" E-Series Light Bar	15011, 15021, 15031
20" E-Series Lower Grille Light Bar Kit	40133
20" E-Series Light Bar	12011, 12021, 12031
Raptor Dually/D2 Fog Kit	40235
Dually & D2 Sets	Parts #'s available at RigidIndustries.com

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
- Flashlights – 1 year
- Accessories and Mounts – 2 years
- Batteries – 90 days

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, or visit our warranty page online at RigidIndustries.com/Warranty.

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