DIODE DYNAMICS
PERFORMANCE LIGHTING TECHNOLOGY

2015-2017 Ford F-150/2017-2020 Ford Raptor
RGBW™ LED Board Installation Guide

Thank you for your purchase of this unique product for your new F-150/Raptor. With these modules, you will be able to control the color of your factory-installed LED DRLs inside the headlight. They are a direct replacement for the factory LED panels, which illuminate these bars.

1. After opening the headlights, remove the white reflector with the light pipe, by removing the screws holding it in place.

2. Remove the factory LED module with aluminum heatsink by unscrewing the retaining screw, then prying off by pulling it away from the plastic tab on the light pipe. Cutting the tab will not affect performance in any way, and is recommended for easier installation.

3. Remove the factory LED panel from the heatsink by unscrewing the two screws on the white plastic piece. Set the plastic piece aside. The LED panel will be stuck to the aluminum due to adhesive. Pry up with force on the end of the factory LED panel, and it will come apart from the metal heatsink.

4. Place the new LED panels into position. If possible, use the original tape to hold in place, then refasten the screws with the white plastic piece.

5. Reattach the module to the end of the light pipe. Again, this is easier if the plastic retaining tab is clipped. Screw into place.

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DD WIRE	PIN	DRIVER WIRE	PASSENGER WIRE
RED	PARKING PIN#3	BLUE/GRAY	BLUE/GRAY
RED	DRL PIN#4	VIOLET/WHITE	VIOLET/WHITE
BLACK	GROUND PIN#7	BLACK/GREY	BLACK/GREY

Wiring Instructions

6. Connect the LED board to the RGBW Driver. Then connect the driver to the controller (sold separately). These modules can be used with any RGB or RGBW controller that operates with common anode (positive). See diagram above.

IMPORTANT: DO NOT plug the LED panel directly into controller without the driver. The LEDs must be plugged into driver first to control the power.

7. Connect controller power input to the Dual Input Wire. Next, tap the Dual Input wires to your desired 12V signals, determining when the LEDs will be turned on. In the table above, we have listed the suggested wires to tap. You may alternatively connect your controller straight to the battery.

8. Mount drivers and controller, and tuck all wires. Drivers should be mounted outside of headlight for serviceability, in a location away from the engine block to avoid excessive heat buildup. Test thoroughly, reseal headlight and reinstall onto vehicle.

Please contact **Diode Dynamics** should you have any questions about the installation or wiring process, at **314-205-3033** (10a-5p CST) or **contact@diodedynamics.com.**

Visit **www.diodedynamics.com** to find more products for any vehicle.

This installation guide is for the following SKU:

DD2004 RGBW LED Boards for 2015-2020 Ford F-150/Raptor