

DIODE DYNAMICS

PERFORMANCE LIGHTING TECHNOLOGY

2015+ Dodge Challenger RGBW™ LED Board Installation Guide

Thank you for your purchase of this unique product for your Dodge Challenger! With these modules, you will be able to control the color of your factory-installed LED "halos" inside the headlight. They are a direct replacement for the factory LED panels which illuminate these rings.



Please note: Headlights must be opened before proceeding with installation. This process can be completed by heating and prying the lens from the housing. We recommend viewing example videos online to understand the process; however, professional installation is strongly recommended. Please contact Diode Dynamics if you need assistance locating an installer.

What's Included: 2 LED Boards, 2 drivers, 1 RGBW extension wire, SolidState Relay Harness
Tools Needed: Torx T10 Screwdriver, Phillips Screwdriver, Socket Head Wrench

NOTE: The following instructions are intended to be used with a Diode Dynamics RGBW Controller. If you do not have a Diode Dynamics controller, these LEDs can be powered with any RGB or RGBW controller that operates with common anode (positive) powered with an external relay or directly to the battery.



1. After opening the headlights, remove the factory LED panels by removing the screws holding the main bezel in place. Then remove the screws holding each ring and LED panel underneath to the housing.



2. Remove the main bezel. Unclip the wire connectors and remove the factory LED panels.



3. Place the new Diode Dynamics LED Boards into position, running the wires behind the bezel and out of the headlamp, sealing any holes you may create.

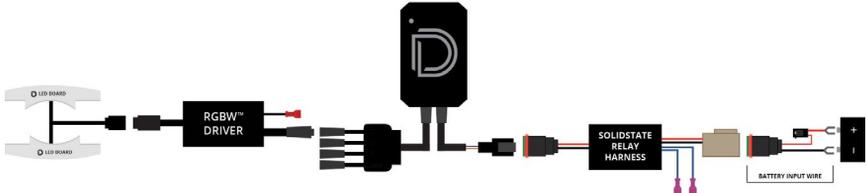
See back for further instructions.



4. Using the alignment tabs and original screws, align the ring and screw back down, securing the LED boards. **DO NOT OVERTIGHTEN.** Replace the headlamp lens and repeat for the other side.

Wiring Instructions

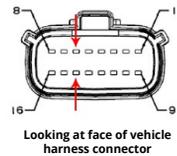
5. Connect the LED board to the RGBW driver. Then connect the driver to a Diode Dynamics LED controller (sold separately).



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.

6. Connect your controller to the SolidState Relay Harness. Connect the battery input wire (included with Diode Dynamics Sold-State Relay) to the harness. Run the battery input wire to the battery and connect to the positive and negative battery terminals.
7. Tap the two blue wires from the SolidState Relay Harness and ground wire from the driver to your power sources. In the table below, we have listed the suggested wires to tap on the headlight harness.

DIODE WIRE	FUNCTION	CONNECTOR	PIN #	DRIVER WIRE	PASSENGER WIRE
BLUE	PARKING	HEADLAMP	6	WHITE/BROWN	WHITE/LIGHT BLUE
BLUE	SIDEMARKER	HEADLAMP	14	WHITE/PINK	TAN/PINK
BLACK	GROUND	HEADLAMP	7	BLACK	BLACK



8. Remove the Sidemarker and Parking pins or wires from the headlight harness, so they do not go into the headlight. We recommend depinning the wires from the connector on both sides of the vehicle.

IMPORTANT: These are the original power wires for the factory LED. After replacing the factory LED, you must disconnect these wires, or the vehicle will disable the signal.

9. Mount drivers, controller, and relay 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.

NEED MORE HELP?

Scan the QR code to link to our installation video online!



We've taken the time to test our products on your vehicle. We can guarantee compatibility and fitment the first time – no guessing game! If you need more help with installation, watch our step-by-step video to walk you through the process.

This installation guide is for the following SKU: **DD2163** Challenger 2015 RGBWA LED Boards