

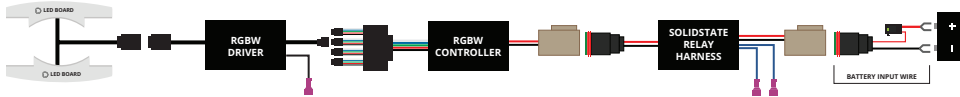


12. Reinstall the lower optics shroud using the original screw. Then reconnect the light pipe to the retaining clips.

Reinstall the four original screws to secure the lower optics shroud in place.

### Wiring Instructions

13. 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.

14. Connect your controller to the SolidState Relay Harness. Connect the battery input wire (included with Diode Dynamics RGBW Controller) to the harness. Run the battery input wire to the battery and connect to the positive and negative battery terminals.

15. Tap the black wire to ground. Then tap the two blue wires from the SolidState Relay Harness to your power sources on one side of the vehicle. 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
BLACK	Ground	Headlight	4	BLACK	BLACK
BLUE	DRL (Parking)	Headlight	6	BEIGE/DARK BLUE	N/A
BLUE	Parking	Headlight	13	WHITE/BROWN	N/A

16. 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.

**This installation guide is for the following SKU:**

DD2255 Ram 2019 Midline RGBW DRL Boards

# DIODE DYNAMICS

PERFORMANCE LIGHTING TECHNOLOGY

## 2019+ Ram Midline RGBW™ DRL LED Board Installation Guide



Thank you for your purchase of this unique product for your 2019+ Ram Laramie and Rebel! With these modules, you will be able to convert your factory LEDs inside the headlight into full multicolor functionality. They are a direct replacement for the factory LED panels inside the light.



**Please note:** Headlights must be opened before proceeding with installation. Professional installation is strongly recommended. Please contact Diode Dynamics if you need assistance locating an installer.

**Tools Needed:** Torx T20 Screwdriver



1. Remove the four T20 screws holding the lower optics shroud and light pipe in place.

**NOTE:** The fifth screw is blocked by the shroud, but will be removed in step 2.



2. Remove the light pipe from its retaining clip by gently pulling the pipe away from the board until the tabs on the pipe release from the clips. Repeat for the other side to fully remove the light pipe.

With the light pipe removed, remove the final T20 screw holding the lower optics shroud in place.



3. Pull straight up on the shroud to remove it. Set it aside.

**NOTE:** Be careful when removing as to not damage the retaining clips.

Remove the retaining clips from the lower boards by gently prying the tabs and pulling out.



4. Remove the screw holding the turn signal reflector in place on each side and disconnect the factory harness. Then remove the housing and set it aside.



5. Remove the five T20 screws holding the upper optics shroud and light pipe in place.



6. Remove the light pipe from its retaining clip by gently pulling the pipe away from the board until the tabs on the pipe release from the clips. Repeat for the other side to fully remove the light pipe.



7. With both optics shrouds and the turn signal reflector removed, remove the four T20 screws holding the factory boards in place.

Disconnect the factory board harnesses and remove the factory boards. They will not be reused.

The harnesses for the factory boards can be left hanging in place.



8. Install your new Diode Dynamics LED boards using the original screws.



9. Secure the upper optics shroud back in the retaining clips one side at a time.

Secure the upper optics shroud using the five screws that were removed in step 5.



10. Reinstall the lower retaining clips that were removed from step 3 to the LED Boards.

Run the wiring out of the headlight, sealing any holes that you may create. You may choose to route the wires through the ballast on the bottom of the headlamp.

To do so, remove the three screws holding the ballast in place. Then route the wires through the hole and reinstall the ballast.



11. Reinstall the turn signal reflector by reconnecting the factory harness and reinstalling the screw that was removed in step 4.

*See back for further instructions.*