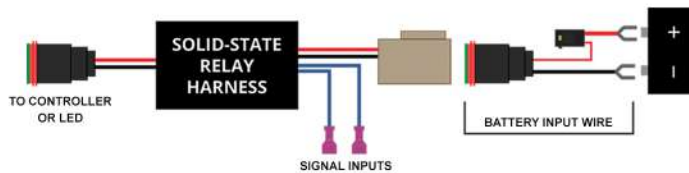


# Solid-State Relay Harness

DIODE DYNAMICS  
PERFORMANCE LIGHTING TECHNOLOGY

## FEATURES

- ▶ Used for any LED installation, in place of standard relay
- ▶ Activate LEDs from two independent factory signals, with no errors
- ▶ Designed to power multicolor controllers with Deutsch plugs
- ▶ Up to 8 amp draw at 12 volts, or 96 watts DC
- ▶ Fully waterproof and shockproof, validated for -40 to 185°F operation



## Specifications

**Max load:** 8A at 12V DC, 96 watts

**Input voltage (power):** 12-16V

**Operating Voltage:** 5-16V

**Input voltage (signal):** 5-16V, PIC microcontroller compatible

**Signal input waveform:** Minimum 50% duty cycle, 100 hz to generate flicker-free "on" signal

## UNIVERSAL INSTALLATION INSTRUCTIONS

1. Attach the Battery Input Wire to your positive and negative battery terminals.
2. Plug Battery Input Wire into the Solid-State Relay Harness.
3. Using the included T-taps, connect the signal inputs to any factory signal that you would like to trigger the power, or to the output of a switch. You can connect up to two independent signals of your choice. Some examples include a running light signal and ignition, high beams and a switch, etc.
4. Connect the Solid-State Relay Harness output to your RGBW Controller, Auxiliary Light, or other device you would like to power.

## EXISTING INSTALLATION FIX INSTRUCTIONS

1. Unplug Dual Input wire from controller and factory wires. If you have tapped factory signals, you may leave the T-taps installed. They will be used again.
2. Connect the Solid-State Relay Harness to your RGBW Controller. If you have an RGBW Touch Controller, cut off the Deutsch connector and insert the red and black bare wires into the controller to power it.
3. Connect the battery input wire to the Solid-State Relay Harness. Run the battery input wire to the battery, and connect to the positive and negative battery terminals.
4. Tap the two blue wires from the Solid-State Relay Harness to your power sources. In the table below, we have listed the suggested wires to tap on the Challenger headlight harness.
5. Remove the DRL 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.

### 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.

### Pinout shown for 2015+ Dodge Challenger

PIN	DRIVER WIRE	PASSENGER WIRE
PIN 6 - PARKING	WHITE/BROWN	WHITE/LIGHT BLUE
PIN 14 - SIDEMARKER	WHITE/PINK	TAN/PINK

