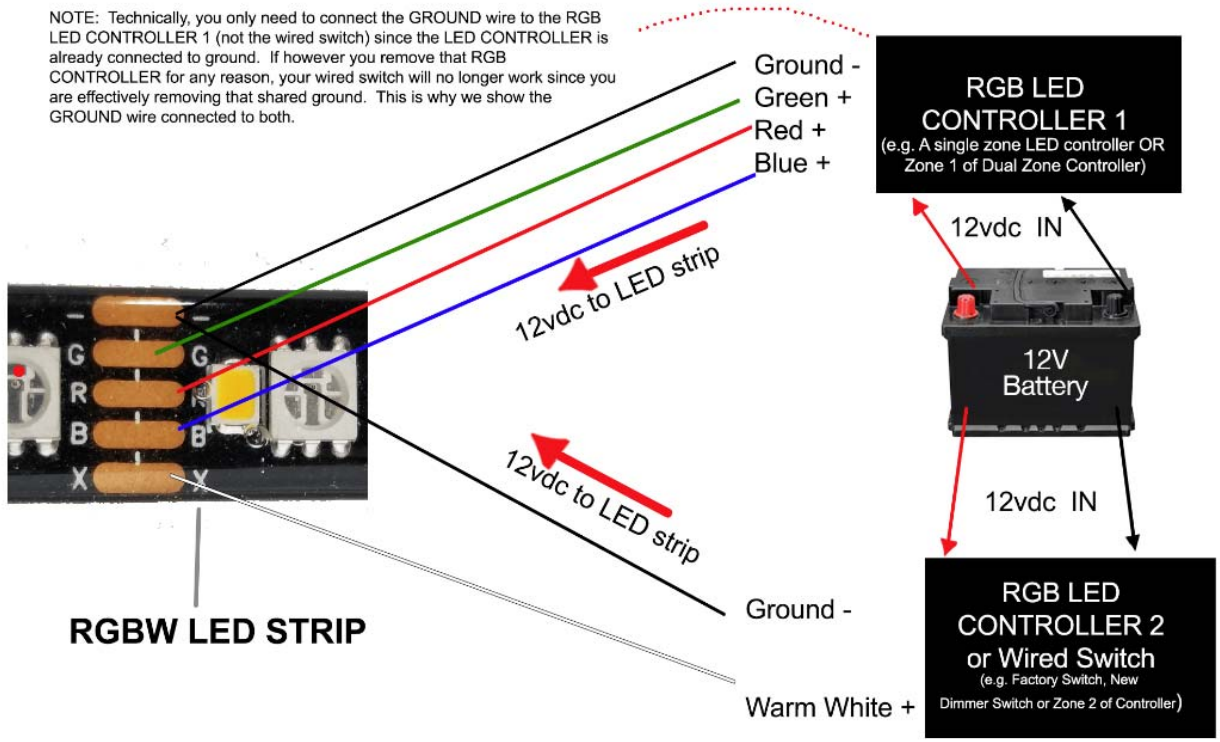
WIRING AN RGB CONTROLLER WITH AN RGBW, RGBWW or RGBA LED STRIP

In most cases, you'll also be wiring an existing OEM switch or adding another switch into the circuit (e.g. dimmer switch).

An RGBW LED has 4 diodes: red, green, blue and warm white. An RGBWW LED strip has 5 diodes: red, green, blue, warm white and cool white. An RGB LED controller can be used to power the R-G-B diodes on either the RGBW or RGBWW LED strip. The remaining W diodes can be controlled by a hard-wired switch such as a factory installed switch (or new dimmer switch) or, you can use a second RGB led controller (or zone 2 of our dual zone controller) to power the W diodes. An RGBA LED strip has 4 diodes: red, green, blue and amber. The Amber diode is most commonly controlled by a hard wired on/off switch. Here are three wiring diagrams that illustrate the possibilities.

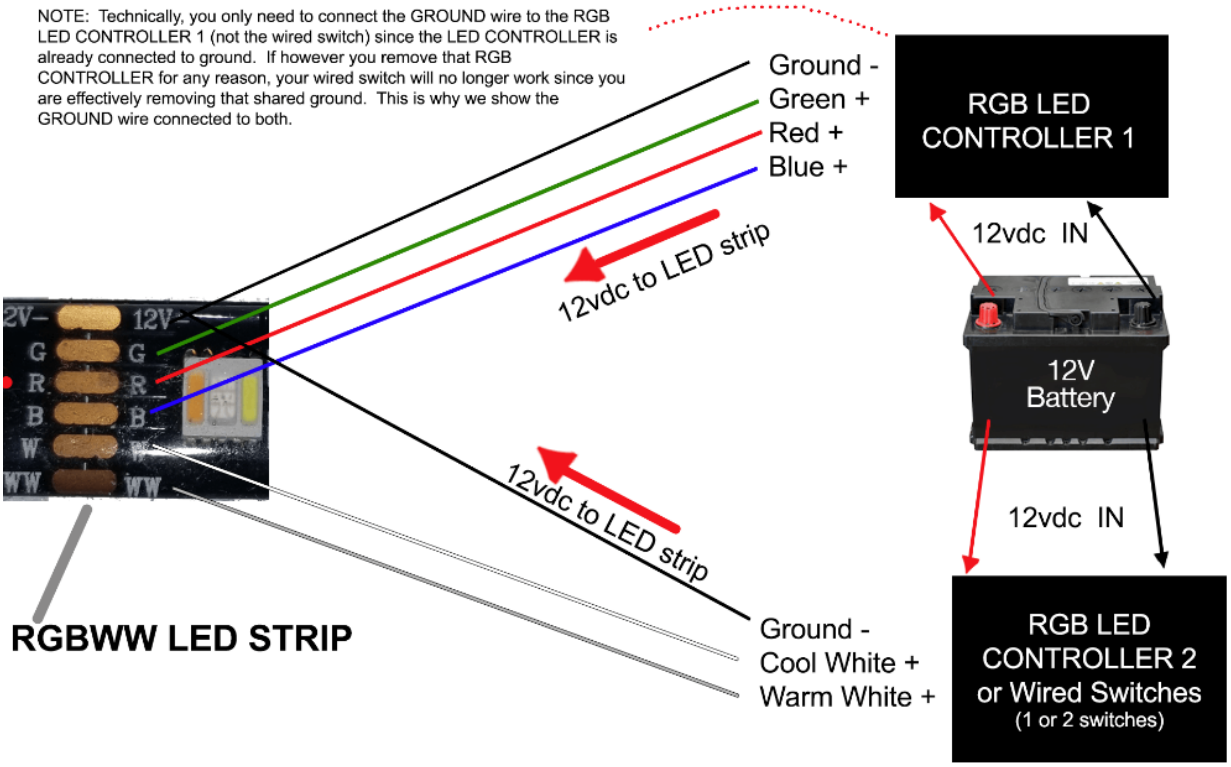
Wiring an RGB controller with RGBW LED Strip



The RGBW LED Strip has 4 diodes: Red, Green, Blue and Warm White (2400k). You can power those 4 diodes using a combination of 1) RGB Controller + Hard Wired Switch or 2) RGB Controller + RGB Controller (our Dual Zone LED controller is often used for this). In all cases, the ground has to be supplied to each controlling device as shown in the above diagram.

The RGBW LED strip has a 6 conductor power lead wire. **The grey wire is not used.** The RED, GREEN, BLUE, BLACK and WHITE wires are used. The WHITE power lead wire is connected to the White diode in the RGBW LED strip.

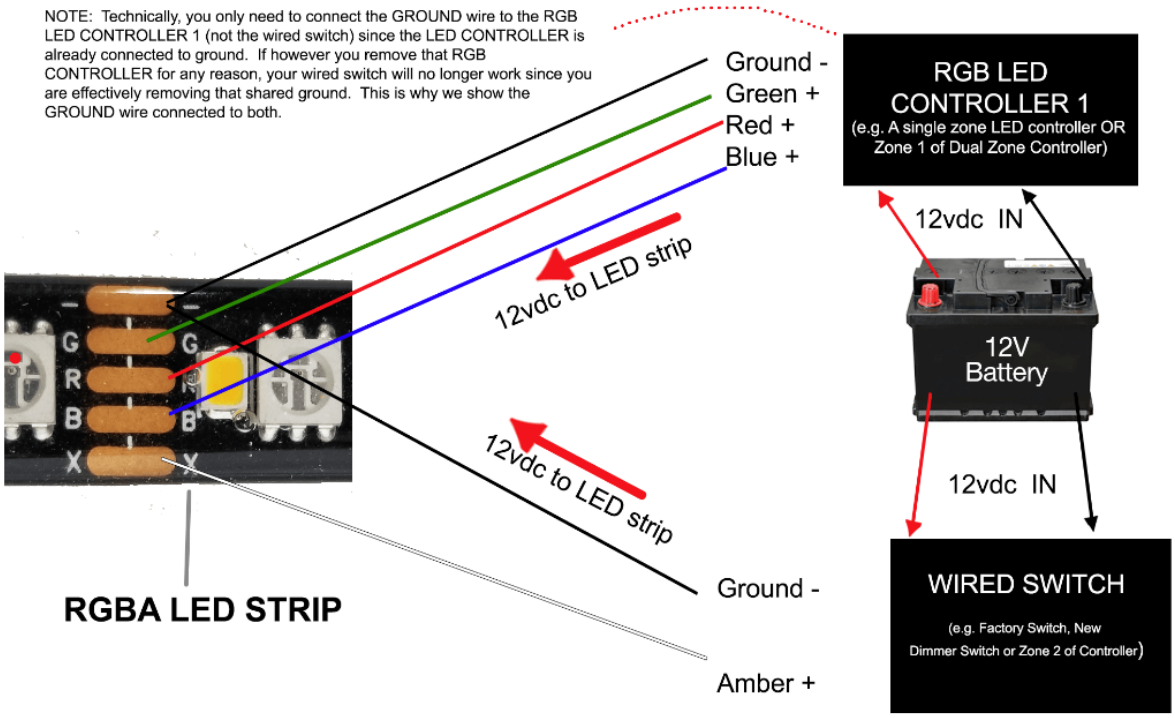
Wiring an RGB controller with RGBWW LED Strip



The RGBWW LED Strip has 5 diodes: Red, Green, Blue, Warm White, Cool White. You can power those 5 diodes using a single RGBWW LED Controller or you can power them using a combination of 1) RGB Controller + Hard Wire Switch(es) or 2) RGB Controller + RGB Controller. In all cases, the ground has to be supplied to each controlling device as shown in the above diagram.

NOTE: If you want to control both WW diodes individually, you need 2 dimmer switches. See product page for details. 08-01-21

Wiring an RGB controller with RGBA LED Strip



The RGBA LED Strip has 4 diodes: Red, Green, Blue and AMBER. You can power those 4 diodes using a combination of 1) RGB Controller + Hard Wired on/off Switch or 2) RGB Controller + RGB Controller (our Dual Zone LED controller is often used for this). In all cases, the ground has to be supplied to each controlling device as shown in the above diagram.

The RGBA LED strip uses 6 conductor power lead wire. **The grey wire is not used.** The RED, GREEN, BLUE, BLACK and WHITE wires are used. The WHITE power lead wire is connected to the Amber diode.