

AXION RGB+W Installation Guide

!!! READ BEFORE INSTALLATION !!!

**FAILURE TO FOLLOW THE INSTRUCTIONS CAN
RESULT IN DAMAGE TO THE PRODUCT AND VOIDING
OF WARRANTY**



Read all instructions before installing the product. For detailed instructions and videos, visit:



<https://rhinoledlights.com/pages/help/install>

!! CAUTION !!

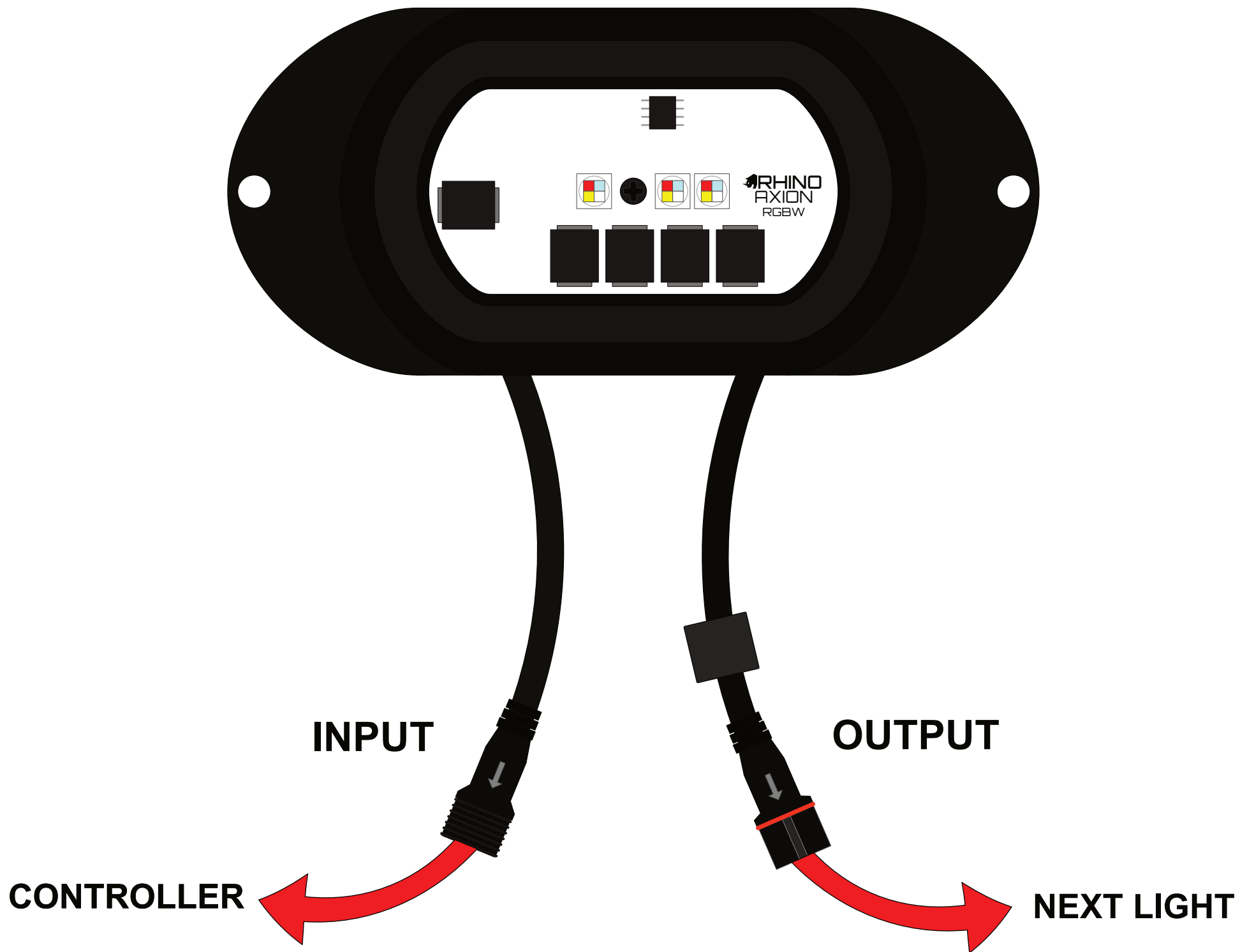
AXION RGB+W rock lights, when run on the highest brightness settings, can become HOT during prolonged use.

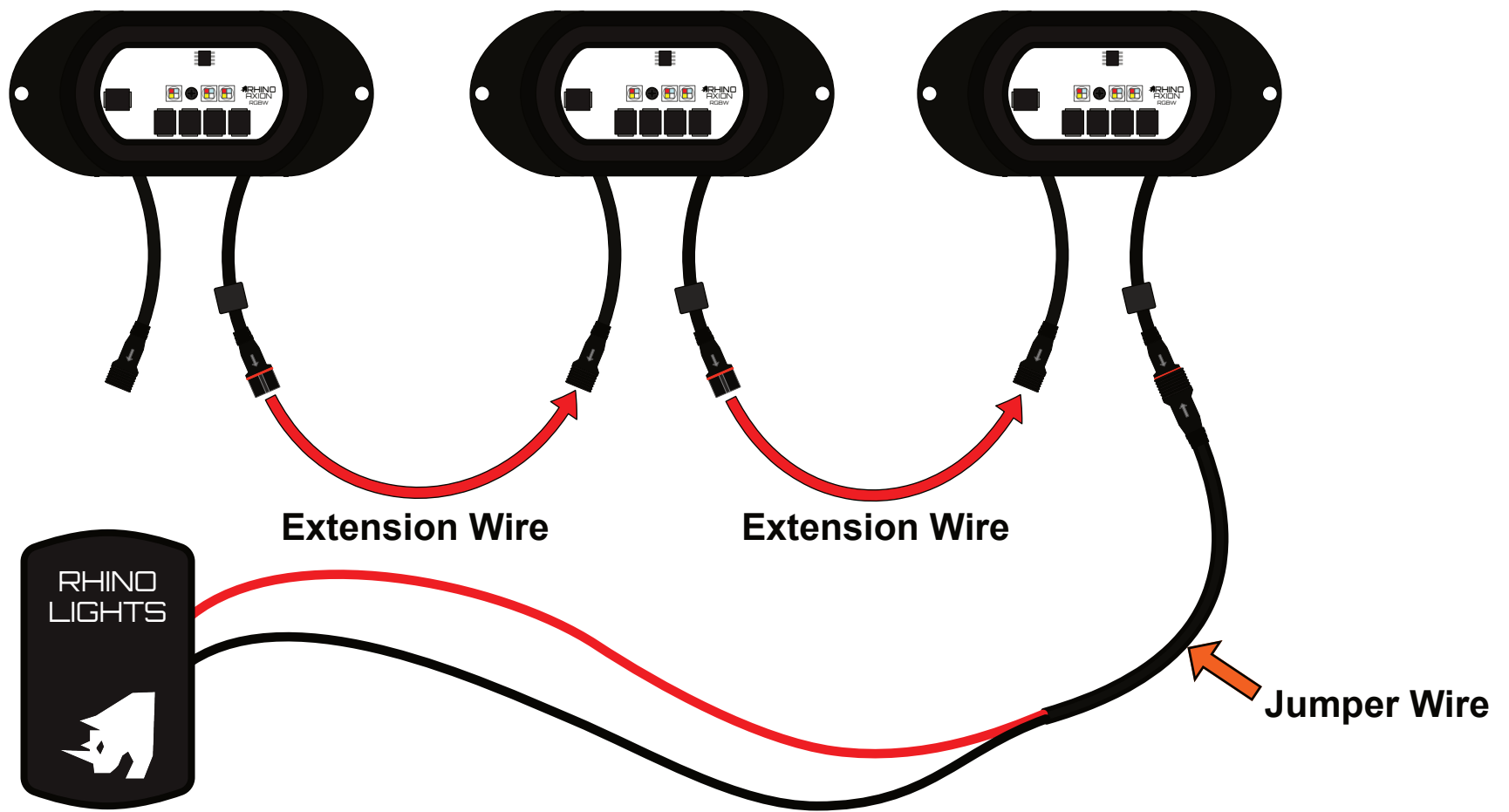
Mount the lights onto solid **METAL SURFACES ONLY.**



For easy installation, ultra-strong magnetic mounts are available for purchase at:







Daisy Chaining and Voltage Drop

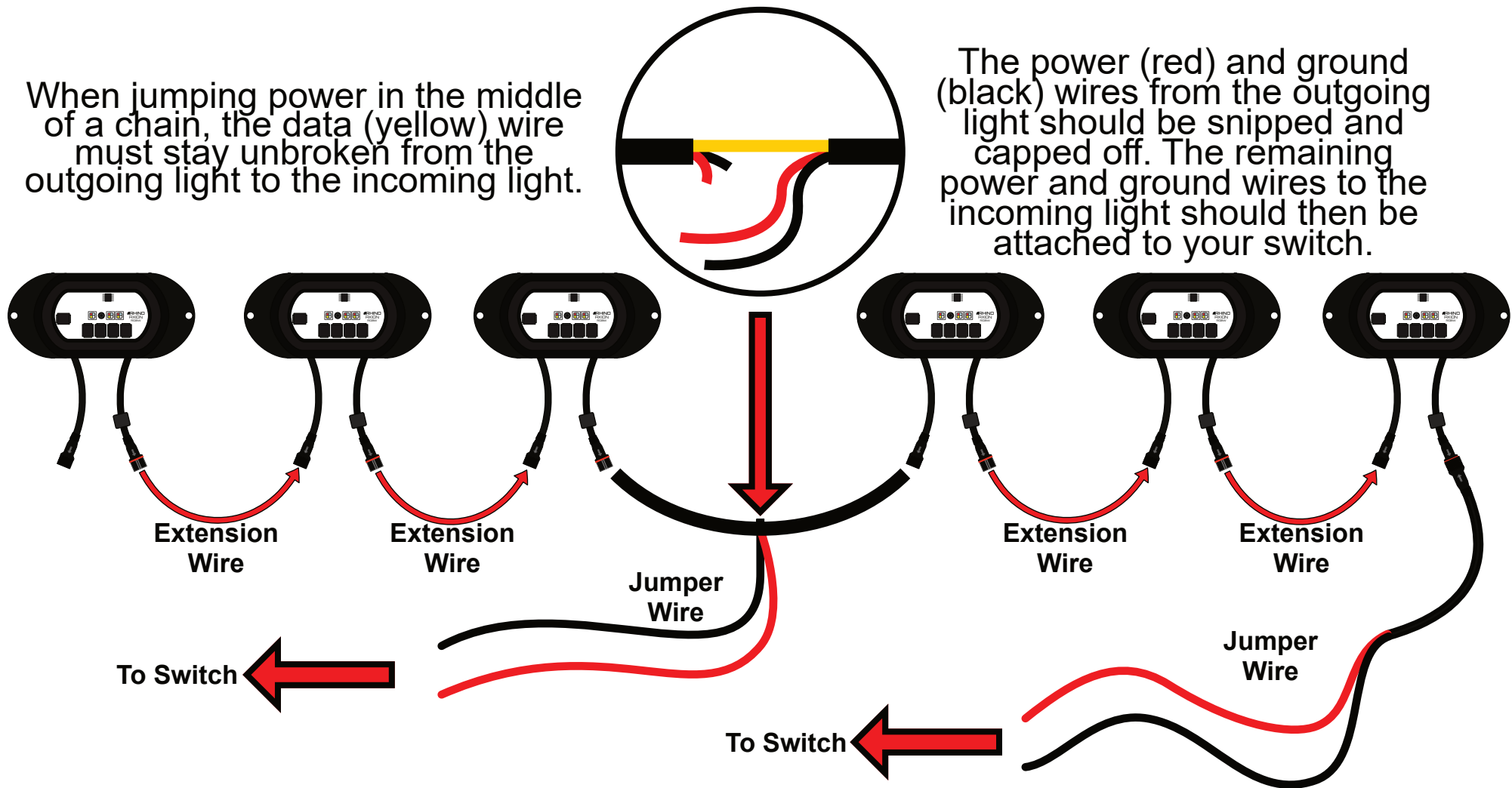
A short 'jumper' cable with singular red and black wires and a plug is provided in built kits of multiple AXION lights.

Connect the plug to the output of the last light in a chain, then attach the red and black wires to, using wire of the **appropriate gauge**, the positive and negative terminals of your **switch**.

Do not connect the jumper cables directly to source power.

When jumping power in the middle of a chain, the data (yellow) wire must stay unbroken from the outgoing light to the incoming light.

The power (red) and ground (black) wires from the outgoing light should be snipped and capped off. The remaining power and ground wires to the incoming light should then be attached to your switch.



Daisy Chaining 4+ Lights

A 'jumper' cable should be installed between the 3rd and 4th lights, as well as at the end of every row of lights.

Use wire of the **appropriate gauge** to attach the red and black wires to the positive and negative terminals of your **switch**.

Do not connect the jumper cables directly to source power.



BLUETOOTH CONTROLLER

Our bluetooth controller works with all of our RGB or RGB+W products.
(note: RGB and RGB+W lights **cannot** be used together on the same controller).

You only need **1** bluetooth controller to run multiple lights in one setup, for example:

RGB rock lights, halos, and whips.

To control lights separately (color, pattern, etc.) another controller is required or inquire about our
CONNEX PRO addon board

Driver settings are:

RGB+W: RGB TM1814

RGB: GRB WS8211

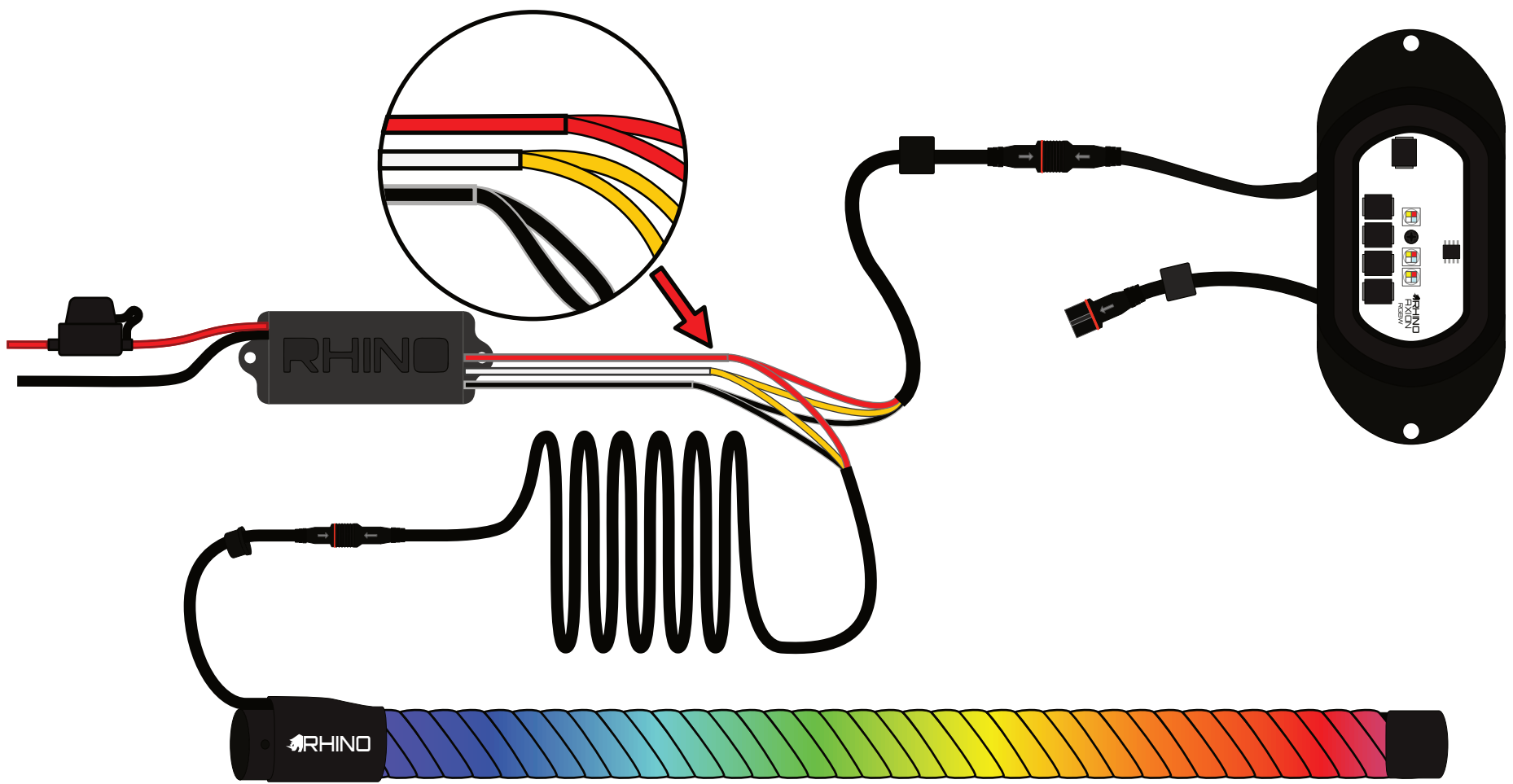
To download the LEDChord app, scan the following QR codes:

Android



iOS





Wiring Guide:

When wiring whips and rock lights directly to the bluetooth controller, make sure to connect the correct wires together:

Controller **BLACK** wire (GND) → Whip and Rock Light **BLACK** wire

Controller **RED** (12V) → Whip and Rock Light **RED** wire

Controller **WHITE** (DATA) → Whip and Rock Light **YELLOW** wire

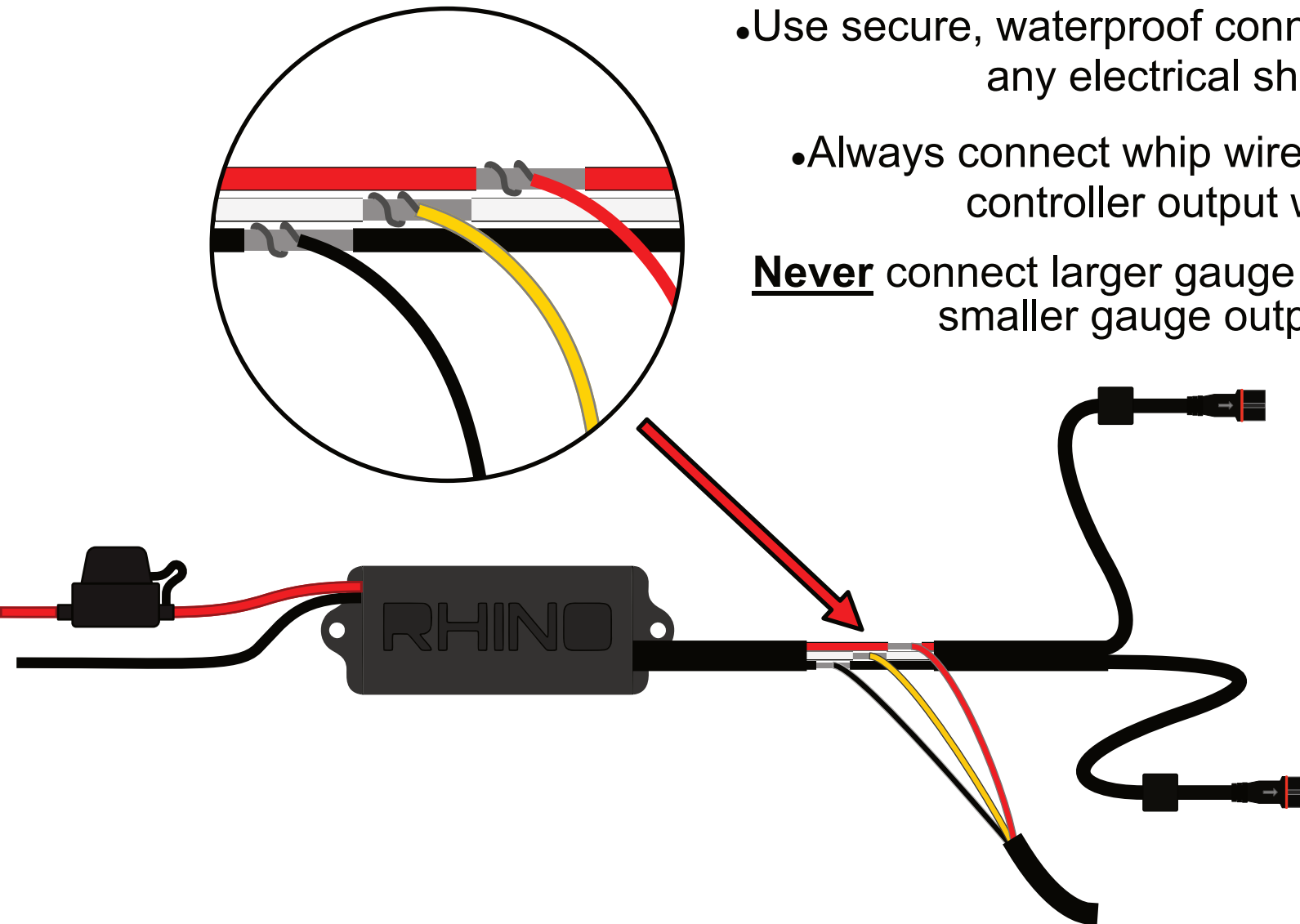
!! Always use secure, waterproof connections for all wires !!

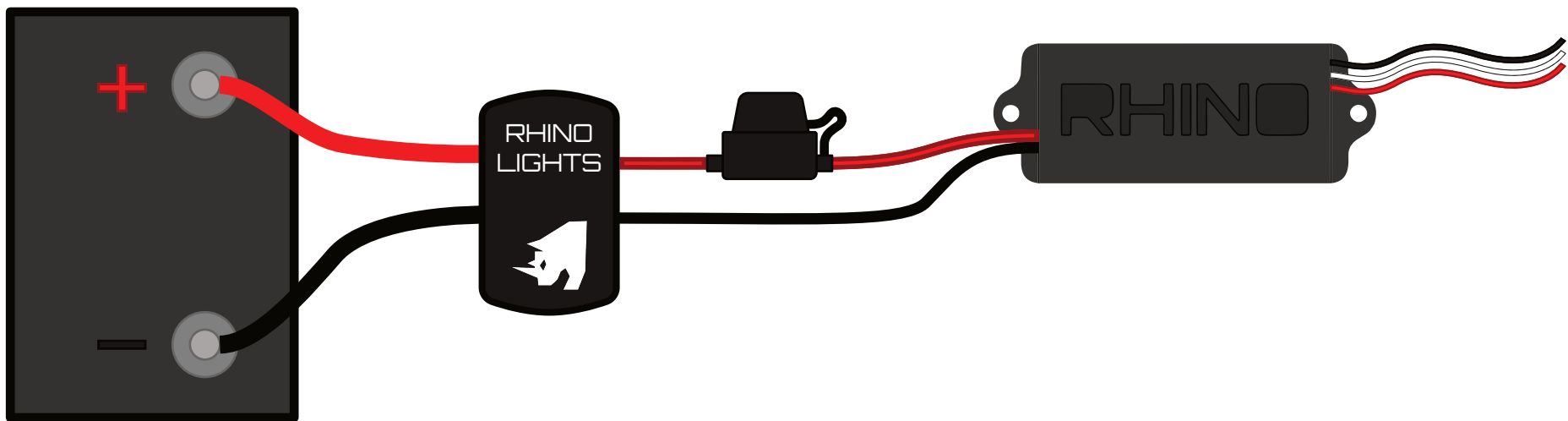
Splicing Wires Together

When connecting whips or LED strip into a controller pre-built for rock lights, you will need to splice the wires together.

- Make sure to connect the correct wires together.
- Use secure, waterproof connections to prevent any electrical shorts.
- Always connect whip wires directly to the controller output wires.

Never connect larger gauge input wires into a smaller gauge output wire.





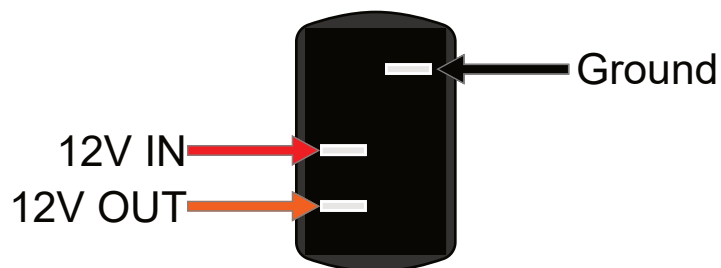
For turning a controller on and off, use a single pole, single throw switch (SPST).

Basic wiring instructions:

Connect a ground wire between the black wire from the controller to the switch ground pin then to the negative lead of your battery or power supply.

Connect the red fuse wire from the controller to the outgoing power (12V OUT) on the switch. Run a wire from the incoming power (12V IN) on the switch to the positive lead of your battery or power supply.

ON/OFF Switch Pinout Diagram



Note:

Switch pinouts may differ between different brands and manufacturers, follow manufacturers' instructions for your specific switches when wiring and connecting them.

PLEASE NOTE:

RGB, RGB+W, rock lights/whips/halos, and Diamond Duo rock lights cannot be controlled together in one setup.

Do not install wires in places they can become pinched or be stepped on.

When adding in wire for any reason, be sure to use the appropriate gauge for the load that it will carry.

Check the condition of all rock lights, wires, solder joints, and connections periodically for any damage. Damaged wires can lead to electrical shorts and arcing.

For safety, solder all ground wires and connections first, before working with any voltage-bearing wires. Be sure to keep any open wires away from each other when power is connected. If not using any wires with raw ends, it is highly recommended that you cap the ends of the wires to prevent any accidental risk of shorting the wires.