

## ColorTRAIL RGBW WHEEL LIGHT KIT

Before you start, review directions completely.  
If your vehicle is not pre-wired for external lighting,  
You may need the following:

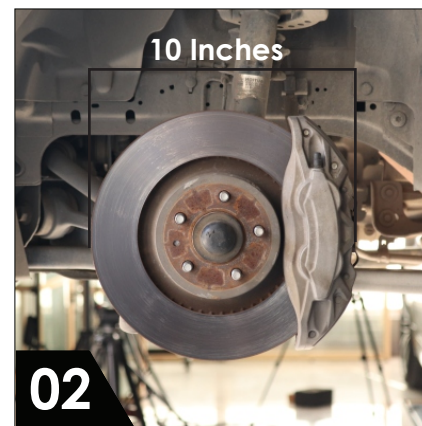
- In-line Fuse Holder (SPXATC16 or similar)
  - 3 Amp Fuse
  - 2 Strand Primary Wire
  - Wire Connectors / Solder
  - Wire Cover
- Optional:**
- Switch
  - Relay

### WHAT'S INCLUDED

4 X LED Strips  
4 X Adjustable Wheel Rings  
1 X Bluetooth RGBW Control Module  
with connection for HORIZON/HEIGHT  
1 X RF Remote Control  
Extension cables  
Mounting Brackets  
Mounting Hardware



01  
Wheel  
Measurement



02  
Rotor / Caliper  
Measurement

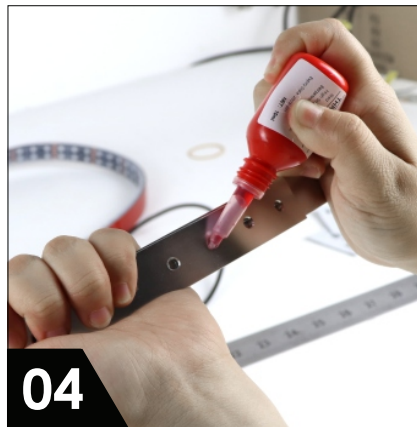
**Inner Wheel Diameter = 18 Inches**  
**Rotor / Caliper Measurement = 10 Inches**  
 $18 - 10 = 8$   
 $8 / 2 = 4$   
 $4 + 10 = 14$   
**Wheel Ring Diameter = 14 Inches**

Start with measuring the inner diameter of the wheel. Measure the distance of the rotor and the caliper (see image).  
Take the Wheel measurement and subtract the Rotor and Caliper measurement then divide that number by 2. Then take that number and add it to the Rotor and Caliper measurement to give you the wheel light ring correct diameter opening.



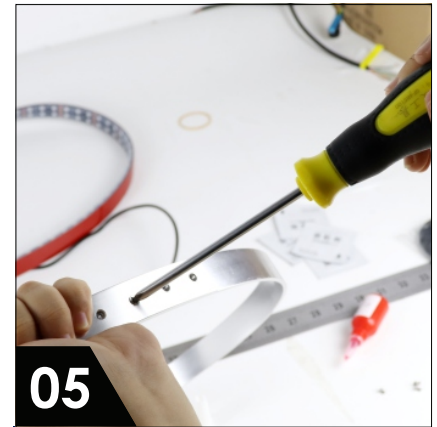
**03**

Adjust the wheel ring to the appropriate size for your application.



**04**

Add thread locker to each screw. Align the screw holes of the aluminum ring and install the screws to hold the ring to the correct diameter opening.



**05**

Tighten the screws using a number 2 philips screw driver.



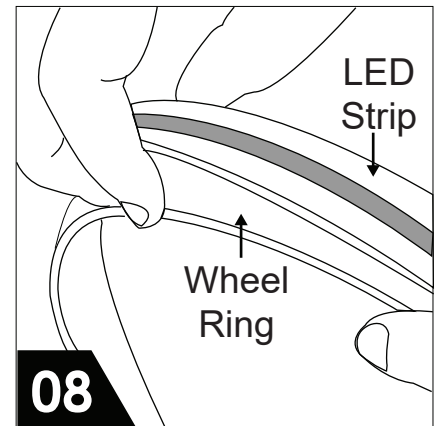
**06**

Use an adhesive wipe to remove any dirt and dust from the wheel ring, this will allow the best adhesion for the LED strip to adhere.



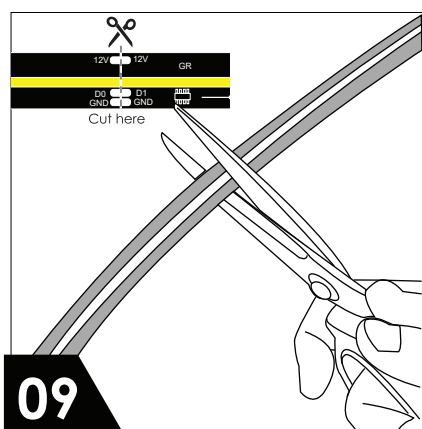
**07**

Remove the tape backing from the LED strip



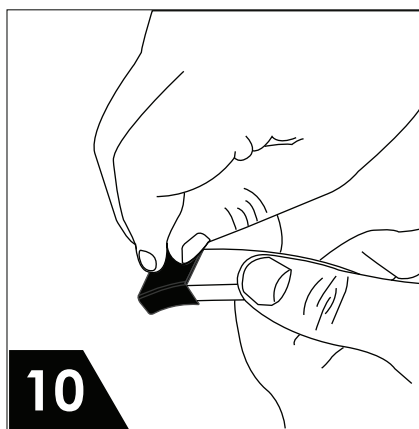
**08**

Attach the LED strip to the wheel ring.



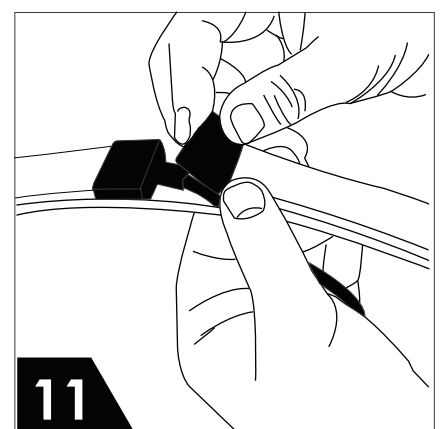
**09**

Cut off the excess strip from the end of the LED strip. Cut on the closest cut point.



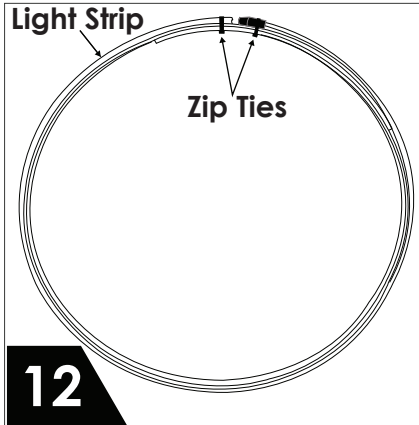
**10**

Remove the rubber cap from the end of the cut light strip. Add rubber cap to end of strip



**11**

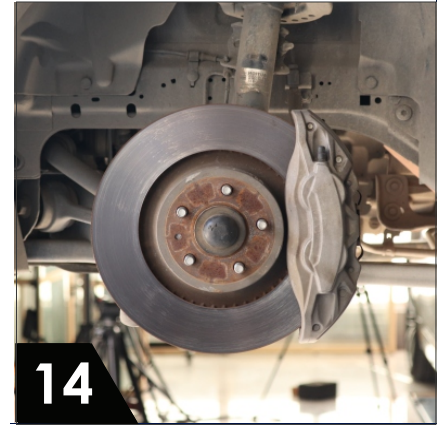
Attach the end of the LED strip to the wheel light. Use a zip tie to hold the end of the strip.



Use Zip ties to hold the ends of the LED Strip. More Zip ties can be added after wheel light assembly has been attached to the vehicle.



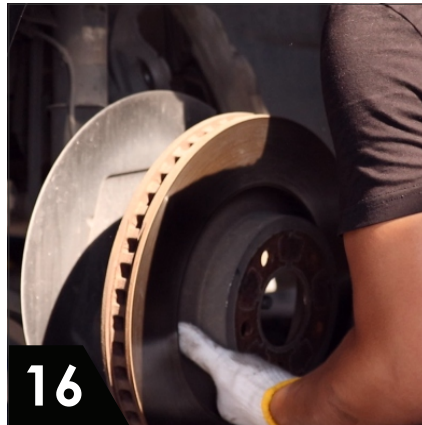
Remove the vehicles tire to get access to the Brake Rotor and Caliper. **A Professional mechanic is recommended for this part.** Hold the ring up to the front face of the rotor and check for clearance around your caliper.



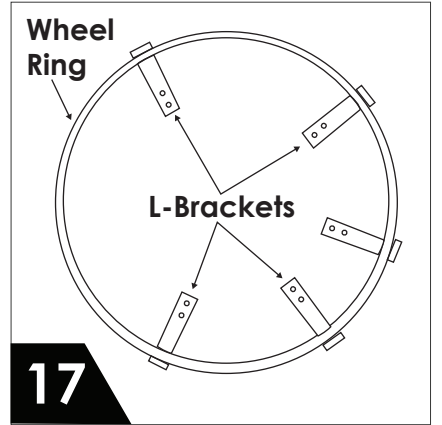
Check for wheel clearance by holding the ring up to the backside of your wheel. There should be no less than a 1/2 inch gap all around. The wheel light rings must clear both wheel and caliper for the installation.



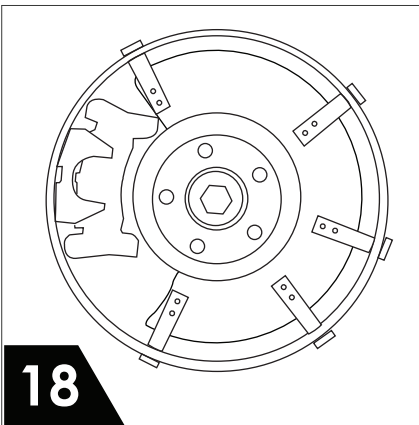
Remove your Brake Caliper.



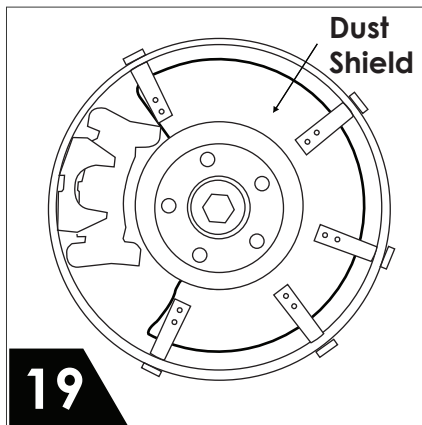
Once the caliper has been removed, remove the brake rotor.



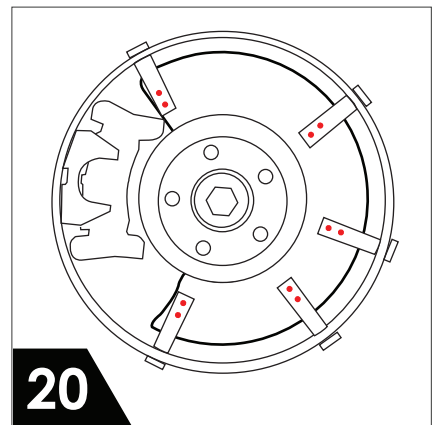
Re-install the Brake Rotor. Attach 4 or 5 of the L-brackets onto the wheel ring loosely.



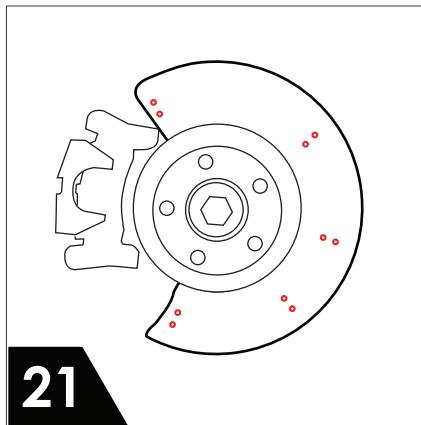
Hold the wheel ring with the L-Brackets up to the vehicle wheel assembly. If the L-Brackets are too long you may need to cut them down.



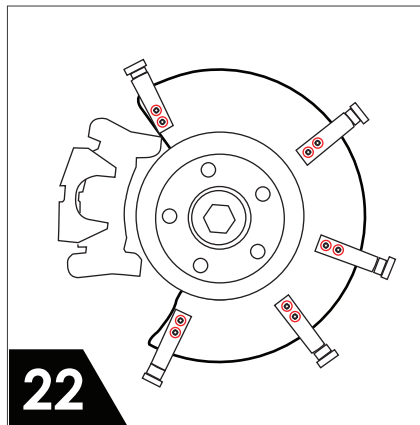
Position the L-Brackets where the brackets have a surface to mount on the dust shield.



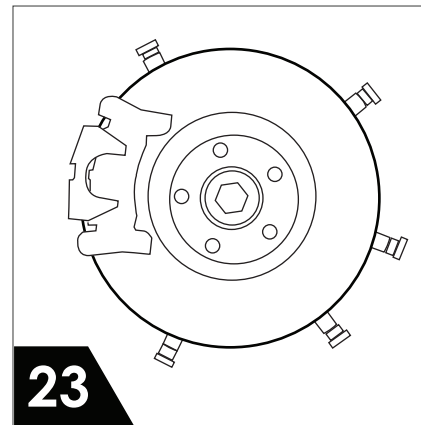
Mark all the holes with a felt pen to locate the drill points for the dust shield.



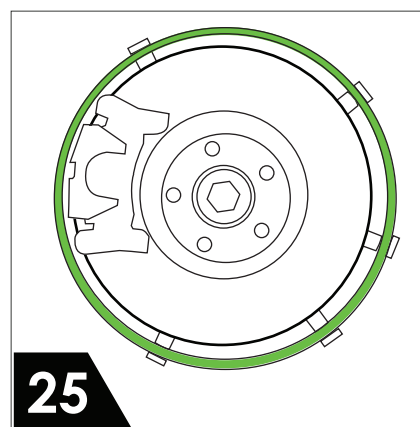
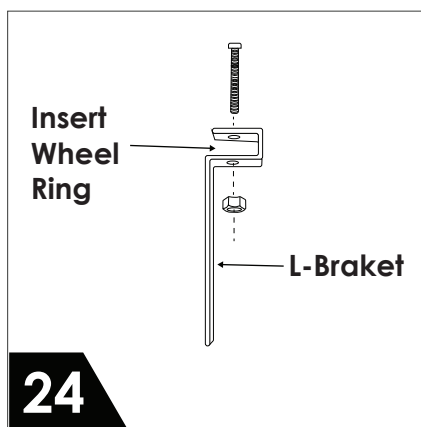
Using a 1/8 drill bit drill all the holes for the L-Brackets. Make sure there are no wires or obstructions on the back side of where you will be drilling.



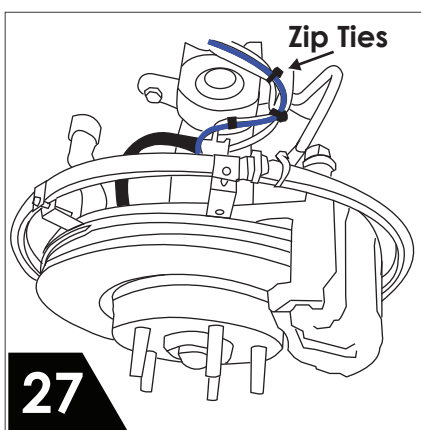
Attach the L-Brackets to the dust shield using the supplied nuts and bolts. Use the supplied thread locker on each nut.



Remove the caliper. Re-install the brake rotor. Re-install the caliper.



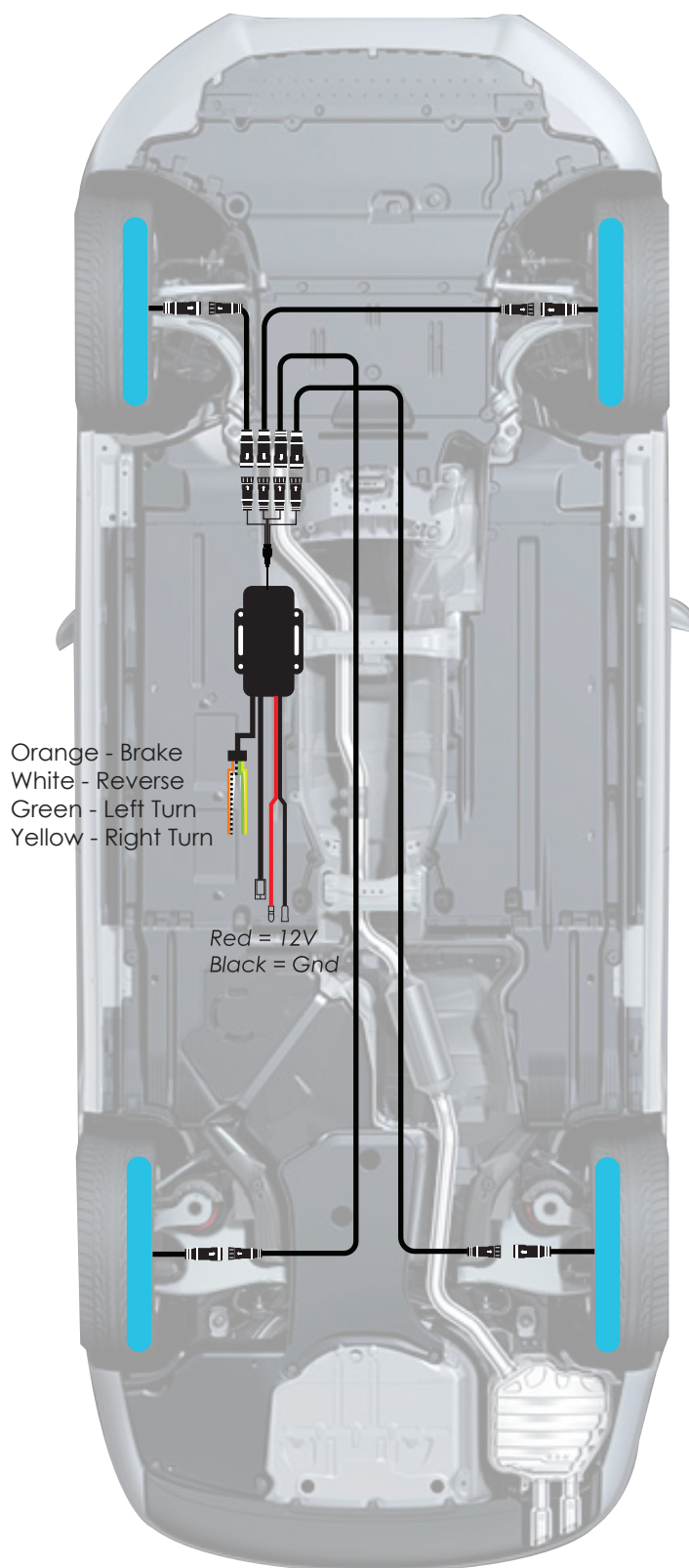
Re-attach the Wheel ring with the wire at the top of the ring. Use the supplied nuts and bolts to bolt the wheel ring to the brackets. Use thread locker on all nuts.



Attach the wheel light wire with zip ties to the brake lines or wheel sensor wires if available. Make sure the wires are out of the way of any moving parts.

Re-install the vehicles wheel.

### VEHICLE WIRE DIAGRAM



### WIRING DIAGRAMS

**Diagram 1:** Wiring direct to power and using an App to turn on/off. Must add 3 AMP fuse on RED 12V+ wire.

**Diagram 2:** Wiring with a switch. You can add a new dedicated switch or use an existing light switch that outputs 12V+ when ON. You will need to add a 3 AMP fuse on the RED 12V+ wire and also requires a 12V relay. Note: When wired to a switch, the RGB controller will default to last mode/color used. No need to access the app.

**HEIGH10 connection:** Connect the Sirius XM harness to the HEIGH10 Radio Module, then connect the 4 pin male connector of the LED module to the female connector of the HEIGH10 Sirius XM harness.

If your HEIGH10 is missing the harness or has the wrong connector you will need to purchase the optional harness (**SE-SXMHAR**)

**NOTE:** Lighting module will still need separate power and ground when connecting SE-SXMHAR

**HORIZON models and HEIGH10 + connect the module to the 4-pin harness coming out of the radio.**  
Use HORIZON manual for connection instructions.

Diagram 1

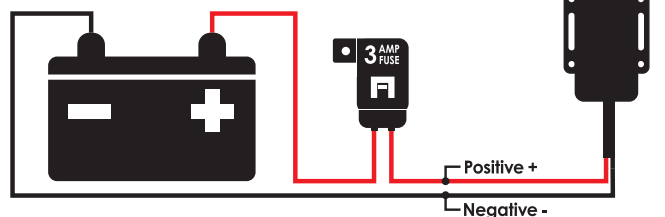
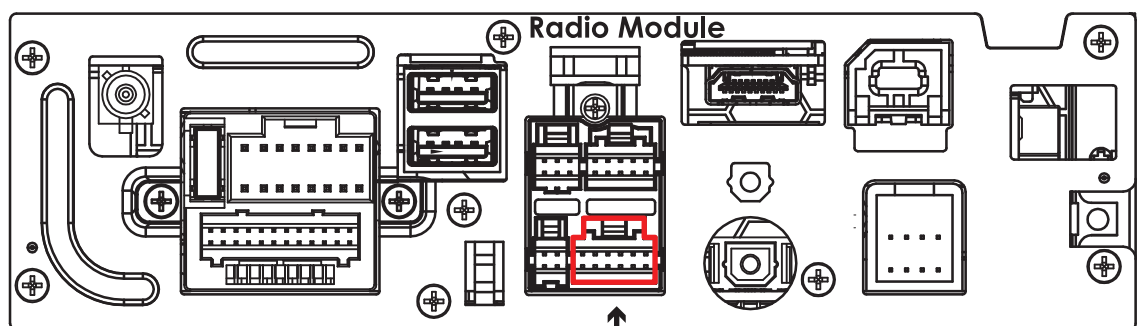
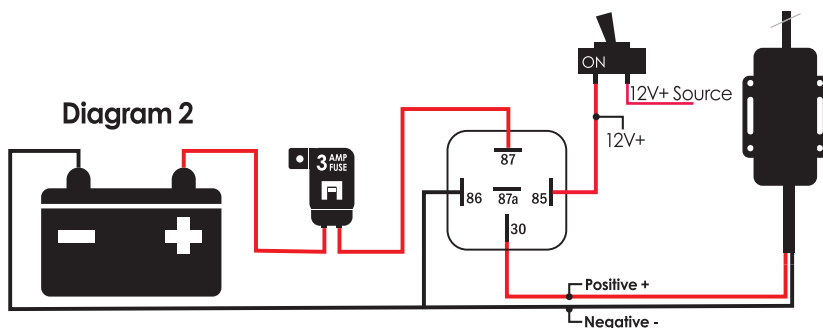


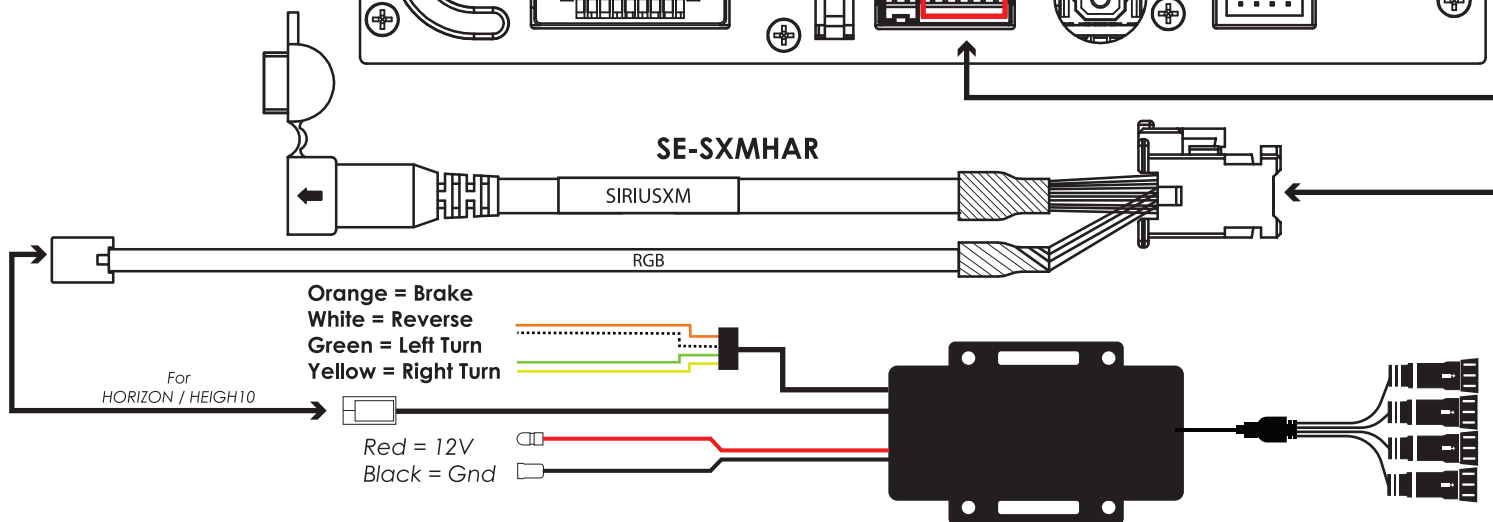
Diagram 2



Orange = Brake  
White = Reverse  
Green = Left Turn  
Yellow = Right Turn

For  
HORIZON / HEIGH10

Red = 12V  
Black = Gnd

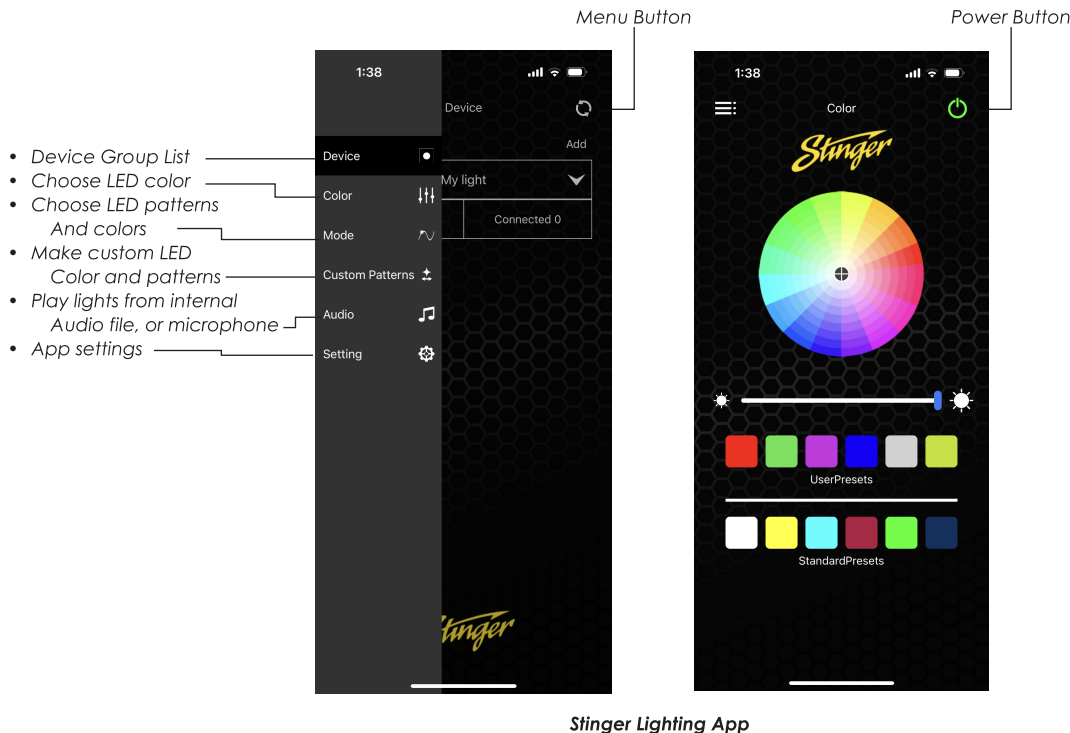


## GET THE APP

Scan the QR Code, or visit Google Play or iTunes to download the *Stinger Lighting* app. Once the app is installed, power up the RGB Module and open the app. The module should auto-connect and be listed in the device list. And Dan says Let There Be Light.



SCAN for Apple iOS and Android App



### LIMITED WARRANTY:

Race Sport Lighting warrants this product to be free of defects in materials and workmanship for a period of one (1) years from the original date of purchase. The warranty is not transferable and applies only to the original purchaser from an authorized Race Sport Lighting dealer in the United States of America only. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Race Sport Lighting will (at its discretion), repair or replace the defective product with new or re-manufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

### INTERNATIONAL WARRANTIES:

Products purchased outside the United States of America are covered by that country's Authorized Race Sport Lighting reseller and not by Race Sport Lighting. Consumers needing service or warranty information for these products must contact that country's reseller for information.

For more information about this fine product, and for technical questions, additional details of the limited warranty and repair services, please visit [www.racesportinc.com](http://www.racesportinc.com)

Race Sport Lighting – "a Stinger Company"

9620 Executive Center Drive, Suite 200

St. Petersburg, FL 33702

Product support:

Phone: 727-228-2740

Email: [service@racesportinc.com](mailto:service@racesportinc.com)

As Technology advances, Race Sport Lighting reserves the right to continuously change our specifications.

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### Tech Brief

When adding multiple light kits together you will need to adjust the pixel count using the Stinger Lighting app.

Below are the pixel count for each part and on page 2 you will find the steps and the pixel Calculator.

Each RSCBTC has a pixel count min and max

Minimum 30

Maximum 1024

Rock Lights = 4 pixels per Rock Light

For example:

1 RSDK4 (4 Rock Lights) = 8 Pixels. (App supports min 30 Pixels)

1 RSDK8 (8 Rock Lights) = 16 Pixels.

Whips and Light Strips are treated as left/right pairs, so pixel count is for two units.

For example:

2 RSCW410 (Whips) = 63 Pixels total.

2 RSCS16 (Light Strips) = 100 Pixels total.

If you were to have three or four Whips you would enter  $63 \times 2 = 126$  Pixels.

If you were to have three or four Light Strips you would enter  $100 \times 2 = 200$  Pixels.

Product Pixel Count:

#### RSDK4

4 Rock Light Kit = 8 Pixels

App is preset to 30 Pixels



#### RSDK8

8 Rock Light Kit = 16 Pixels

App is preset to 30 Pixels



#### RSDE4

4 Add on Rock Lights = 8 Pixels

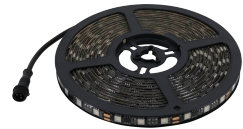
Add 8 Pixels for each kit



#### RSCS16

16FT LED Strips = 100 Pixels

Add 100 Pixels for each kit



#### RSCUBKIT10

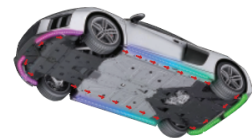
6 LED Light Strip Kit = 50 Pixels

App is preset to 50 Pixels

#### RSCUKIT10

4 LED Light Strip Kit = 30 Pixels

App is preset to 30 Pixels



#### RSCW210

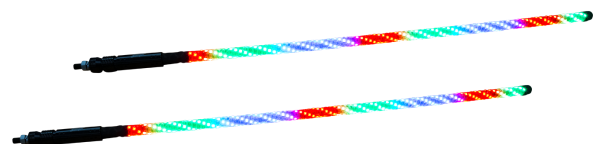
2 Ft Whip = 30 Pixels

Set App to 50 Pixels for one or two Whips

#### RSCW410

4 Ft Whip = 63 Pixels

Set App to 63 Pixels for one or two Whips



### Step 1.

Open the Stinger lighting app on your phone.

### Step 2.

Open the Settings menu.

### Step 3.

Click on Chasing Settings.

### Step 4.

Click on the device.

The device should now be highlighted in blue.

If you have a kit the device name will have a preset pixel count

(Check previous page for Pixel count of each part)

### Step 5.

Enter the number of pixels you want and press enter.

### Step 6.

Go to the Mode page and turn the connected device off then on by pressing the green icon.

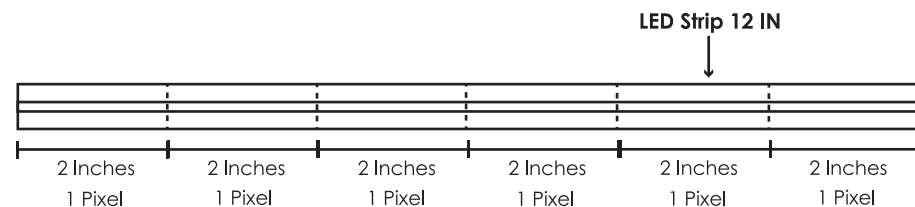
### Pixel Calculator

Rock Light = 4 pixels each

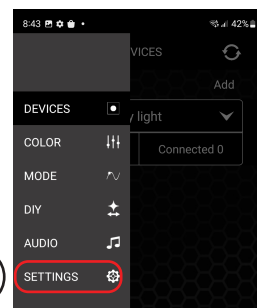
LED strip per 2 inches = 1 pixel

For example:

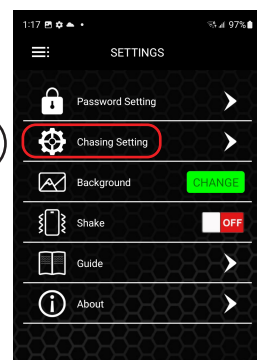
12 inch strip = 6 pixels



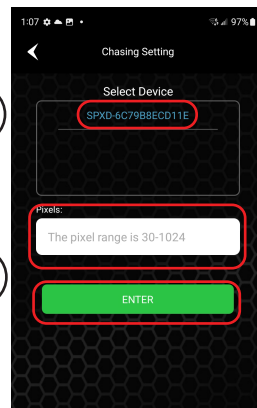
2



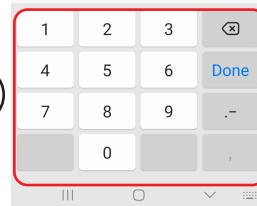
3



4



5



6

