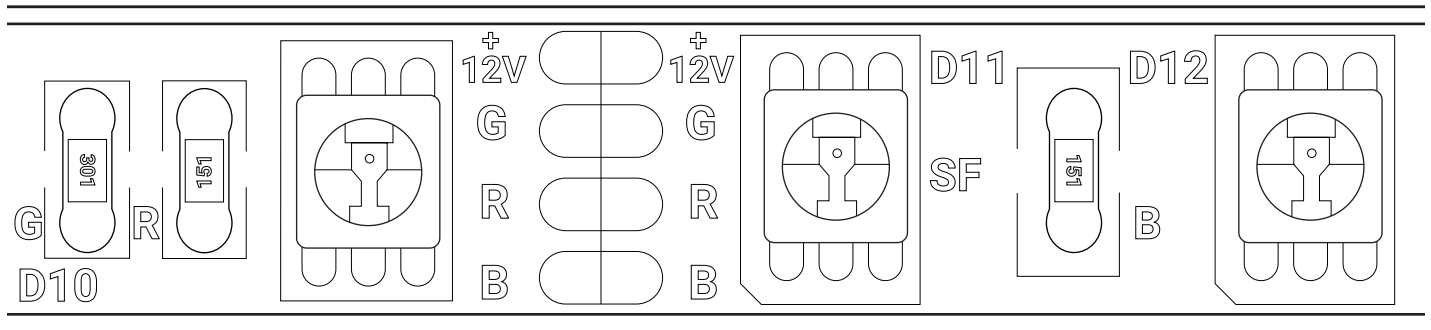


L U M E N

15.5" App Controlled RGB LED Wheel Rings

# INSTALLATION INSTRUCTIONS



**⚠ Caution**

This is a universal item and varies greatly depending on the vehicle and how the braking system is designed. Professional installation is recommended if you are unable to complete the installation yourself.

**🔧 Tools and supplies needed:**

- Automotive grade wire
- Butt connectors
- Wire stripper
- Crimping Tool
- Drill and drill bits (Application dependent)
- Tin snips or cut off wheel
- Small nuts, bolts, and washers (Application dependent)
- Thread locker
- Test light
- Add-a-fuse or in-line fuse holder (Application dependent)
- #2 Phillips screwdriver



 **In the box:**

- (4) App Controlled RGB Wheel Rings
- (1) Bluetooth control module
- Wiring harness
- (20) Black cable ties
- (20) Self-tapping screws



 **Disclaimers**

It is very common for backing plates on braking systems to corrode over time, ensure that your backing plate is secure and sturdy enough to support the rings you will be mounting.

If the backing plate of the brake rotor does not overhang past the rotor or if it is curved in the edge, additional brackets may need to be fabricated and/or the backing plate may need to be modified for the wheel lights to be installed.

**STEP 1.** Remove the wheel.

**STEP 2.** Mock the wheel light up to the backing plate. We recommend installing the ring with the wire coming out of the top, but you may need to have the wire in a different location depending on where you need clearance.

**STEP 3.** One of the mounting tabs will need to be removed in order to leave space for the brake caliper. The mounting tab is attached by a #2 Philips screw.

**STEP 4.** In order to ease installation, you can remove the brake caliper and rotor, but they will need to be reinstalled before the wheel light is installed.

**STEP 5.** Once the wheel ring is mocked up on the backing plate the tabs may need to be trimmed if they contact the suspension or brake components. Mark the mounting tab with a marker, then remove excess tab material while the ring is not on the vehicle.





**STEP 6.** Once the tabs are the correct length, you can use the tabs as a template to mark where you will need to drill holes in the backing plate. If you are using the provided self-tapping screws, drill a small pilot hole before installing the self-tapping screws. If you are using small hardware (ie. Nuts and bolts) then you will need to make a 3/16" hole in the backing plate to accommodate the hardware.



**STEP 7.** Bolt the ring light onto the backing plate. We recommend using thread locker with the hardware, wheel components are subject to large amounts of vibration.



**STEP 8.** If you have removed the brakes, reinstall them now.

**STEP 9.** Mount the wheel and tire assembly and snug down a few of the lug nuts spin the wheel to make sure the hardware and wheel ring is not contacting the brakes, wheel, or any suspension components.

**STEP 10.** Begin running the wiring into the vehicle. We suggest securing the harness to the abs wire and/or brake line. Make sure there is enough slack in the harness to accommodate suspension travel and steering from lock to lock without pulling on the harness. Ensure the harness is kept away from all hot or moving components.



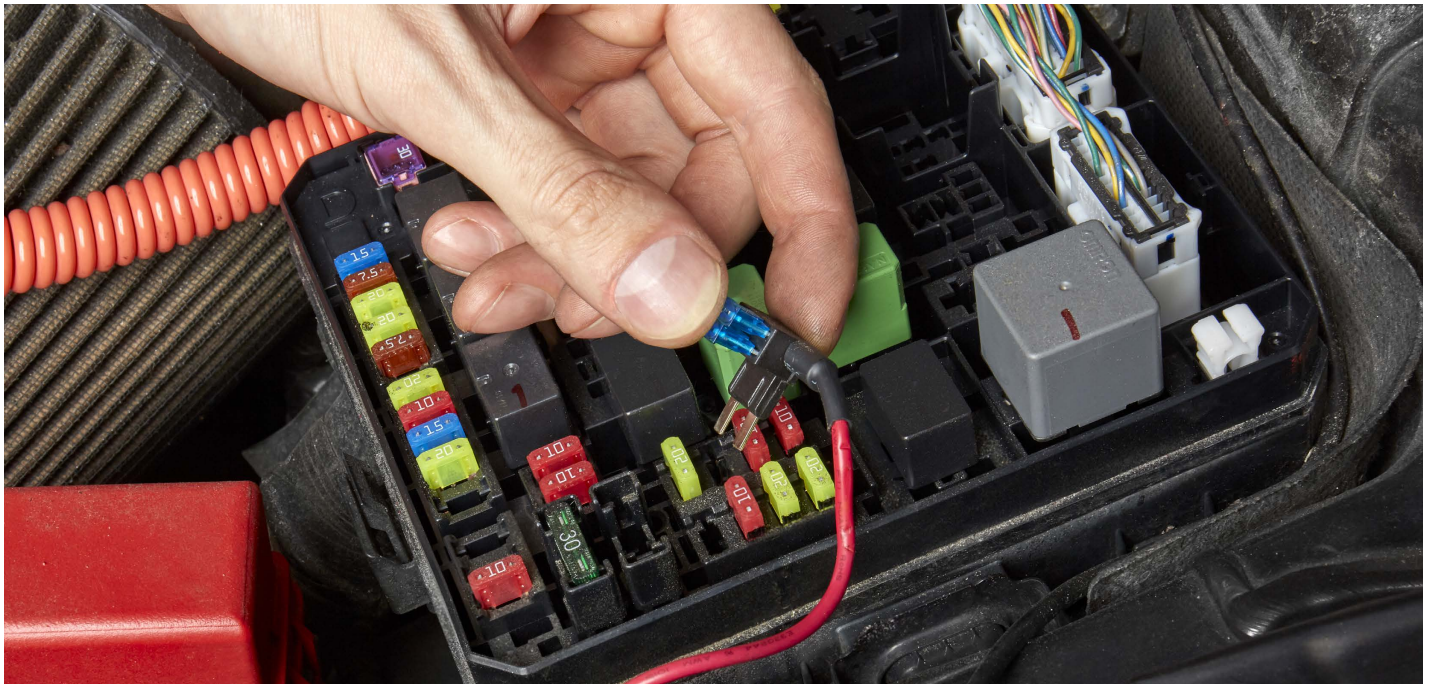
**STEP 11.** Run the wires along the frame to the engine compartment. Secure the wire with cable ties.

**STEP 12.** We recommend mounting the LED controller inside the passenger compartment if possible, to avoid any heat or moisture damage. If you unable to mount the controller inside the vehicle, ensure its mounted in a dry and safe location under the hood.

**STEP 13.** Once the controller is mounted, using a test light, find a proper ground and connect the black wire of the controller to the ground.



**STEP 14.** If wiring the positive wire directly to the battery the lights can only be turned on and off via your smart phone app. If you choose to install an add a fuse into the fuse box. Use a test light and locate a circuit that is powered only with the key in the on position. Remove the fuse and insert it into the open slot in the add a fuse and insert it into the open space in the fuse panel.





**STEP 15.** This step is optional. If you would like more control without your phone, you can run the positive wire through a 12-volt switch and mount the switch in the passenger compartment. This can allow you to deactivate the system whenever you please.

**STEP 16.** Plug in the RGB wires to the wires coming out of the LED controller.



**STEP 17.** Once everything is wired up, activate the lights and confirm operation of all colors and functions. (Finished product photos 1-5)





Check out other lights offered in our online store.