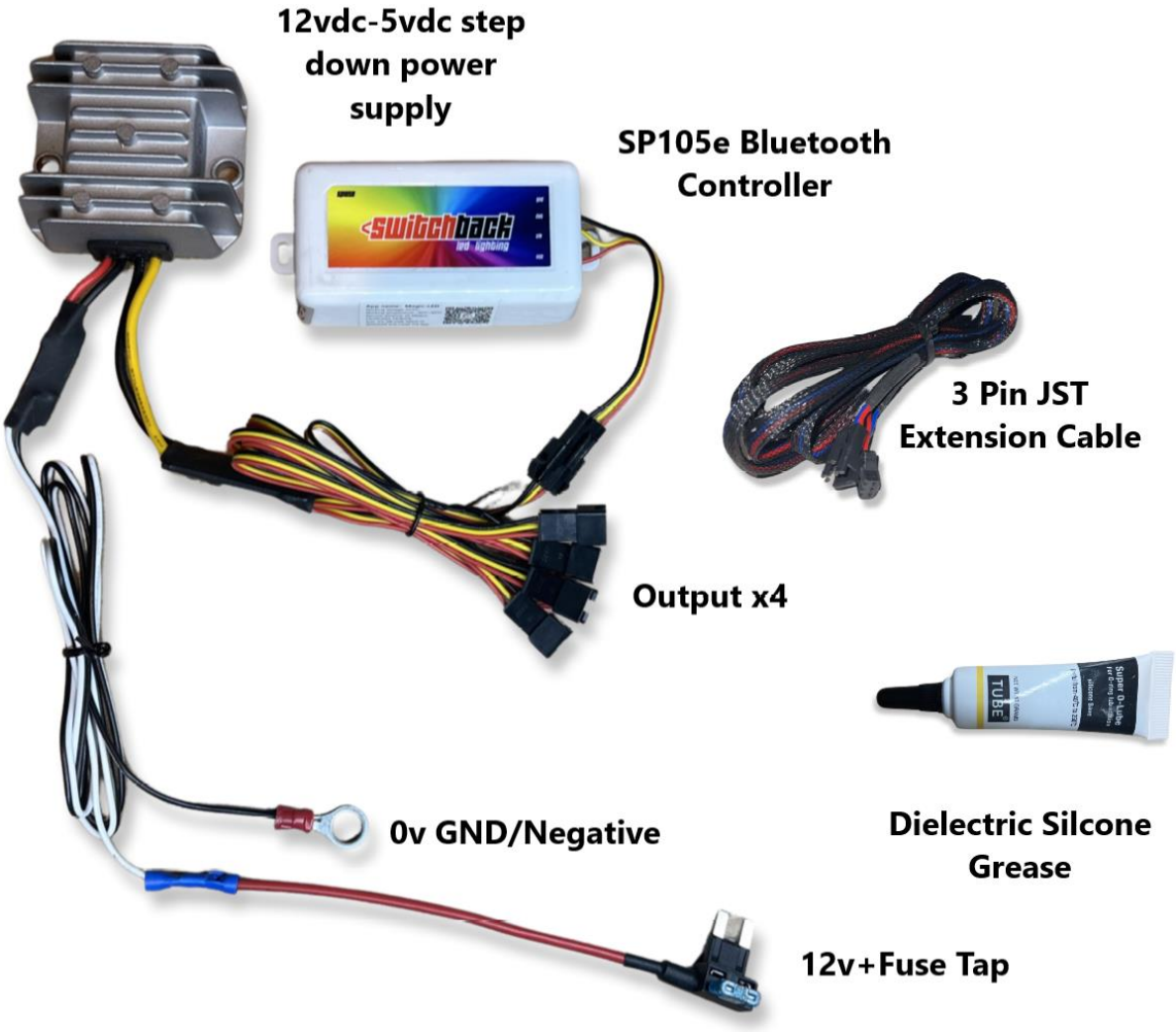


PLEASE READ:

Electrical Connections:

12v+ "Fuse Tap": In this kit, our 12v+ power is acquired through a "Fuse Tap" or "Add-a-circuit".

This allows you to take 12v power out of your fuse box without splicing into circuit/joining wires.

To do this, remove an existing fuse to a relevant **ignition circuit** use a circuit that will only give you power when your ignition is on, eg. Air Con, fuel pump, etc. To install, remove the fuse from the fuse box and install it into the bottom free fuse spot on the fuse tap.

0v GND/Negative: This wire consists of a round crimp lug with an 8mm hole in the middle. This needs to be connected to a Ground point. This can be a bolt on the chassis (that goes into/onto metal), negative/ground point in the engine bay, or directly to the negative post on the battery.

Output x4: These are the **halo outputs** of the controller. These are to plug into the halo connections coming out of each headlight. **Dielectric grease to be used in these plugs.**

Power Supply: The power supply itself should be mount near your battery/fuse box for easy short connections. This will mean that the halo connections on one of the headlights will be too short to reach the controller. This is where the **3 Pin JST Extension** cables come into play. Run these cables from the short halo connections to the controller and remember to use dielectric grease on these connections as well.

Bluetooth Controller: Please remember to use the **dielectric grease** on this connection. Bluetooth Controller should be fixed in a position where its not subjected to water.

APP: MagicLED (Android & iOS)

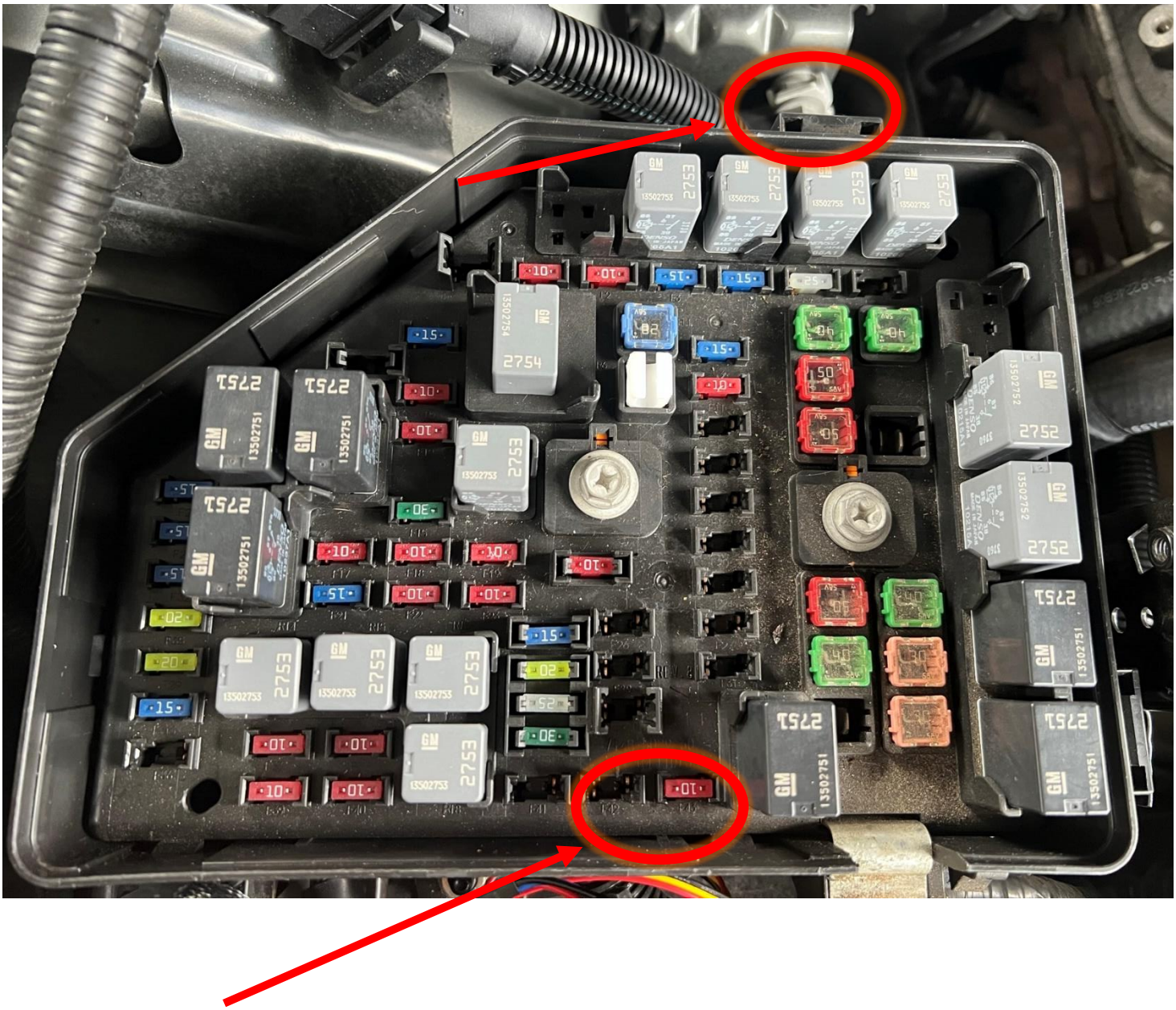
Please note:

- **ALL electronics MUST** be mounted into a position free from water ingress, these are **NOT** waterproof. Failure to follow this may result in malfunction of the electronics (LED driver, supply, Bluetooth module and halos).

- **White tube of dielectric grease** to be used on all 3 pin plugs. Fill the plug with grease and then push the other connector into the plug. This is used to waterproof the connections. Also note: Failing to use dielectric grease on the connections may result in malfunction or possible damage of demon eyes/halos.

- **AFTER INSTALLATION** your new headlights MAY fog up once or twice on humid days or after a car wash on a cooler day. This is normal as the headlights must be put in the oven to open and also to seal up and there is usually some condensation in the headlights due to this. To speed this settling process, remove the high beam dust cap to allow the moisture to escape and the fogging to clear itself up, once cleared, put the dust caps back on.

- **Aligning your headlights** Your new headlights need to be aligned as we can't do this without the vehicle. The adjustments are located on the back of the headlights and are usually white in colour. One for left-right alignment, and one for up-down alignment. **PLEASE NOTE:** Some headlights such as **FG Falcon** have very little clearance between the halo and the lens.
  Make sure that when you align the headlights that the halo cover is not touching the lens of the headlight on the inside, otherwise things like vibrations can mark the inside of the lens and this cannot be repaired. Our warranty for this product does not cover this damage, and lenses aren't readily available to change over. **So please** check this very carefully when aligning your headlights.



- Remove LH Parker fuse.
- Insert fuse into bottom free spot in fuse tap.
- Insert fuse tap into this location (Controller fuse it already fitted to top position on fuse tap).

- Black wire with red ring terminal needs to be fitted to a negative/chassis point. There is a point located just above the fuse box with a negative cable already attached.
- Remove the nut.
- Slide black wire over the top of the bolt.
- Refit nut.

This method connects all halos to the parking light circuit, so when you turn your parking lights on, the halos will operate. Test operation before putting everything back together.

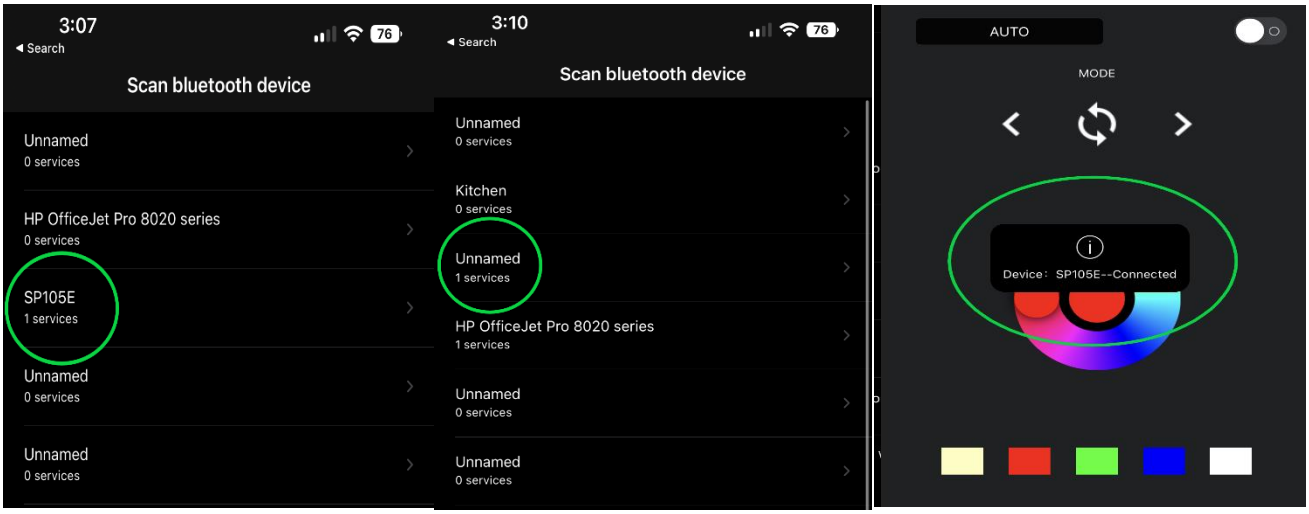
Troubleshooting:

My halos aren't turning on:

- **Ensure the ignition is turned on.**
  If you have used an ignition fuse in the fuse box, the controller will only operate when the ignition is turned on.
- **Ensure that the Power supply/controller has power.**
  Check your power connections. The unit only needs its 12v+ and 0v/Ground to operate. Check that there is power at the fuse tap with your other probe to the vehicle chassis first. If you have power the next step is to check your ground.
- **Check the Bluetooth controller's connections.**
  Sometimes the terminals in the Bluetooth controller can become loose on transit and lose electrical connection.
- **Check that wiring hasn't been damaged on installation.**
  In some cases, we have found that some customers have damaged/broken the cabling and/or crimp lugs on installation. This can occur with excessive force or pulling cables through tight places in the engine bay. Please take care when installing cabling to prevent this issue from occurring.

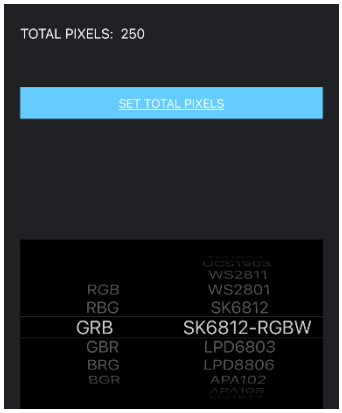
I can't connect my phone to the Bluetooth controller:

- **Make sure the correct app has been installed. "Magic LED"**
  Other RGBW Apps will not control this unit.
- **Are the halo lighting up?**
  The halos need to be powered up and on to access the Bluetooth app. If the unit is not powered, you will not be able to find the device on your phone.
- **Has the correct device been selected?**
  The **MagicLED** app searches for all Bluetooth devise in the area, not just Halo Controllers. Device name on first connection will likely be "Unnamed – 1 Services", when connecting it will flash up "Connected: SP105e" very quickly and then take you to the main colour wheel screen. Once connected for the first time, the Bluetooth device name should change to "SP105e".



My halos are showing the incorrect colours:

- Check that the correct settings in the app are selected: **GRB | SK6812-RGBW**
  If the wrong settings are selected, the controller thinks that we are operating a different type of LED chip.



Some LEDs in my halos are showing incorrect colours:

- Check that your connections and Bluetooth controller haven't been subjected to water or moisture. Water in the Bluetooth controller or 3 pin connections can cause malfunction of the halos.
- **If the issue is only happening on one halo ring**, unplug that halo ring and plug back in. If the issue is still there, unplug both halos and swap out the connections around to confirm that there is not an issue with one output on the controller.

  If the problem moves to another halo, its likely moisture has gotten into the driver or controller and it will need to be replaced.

  If the problem remains on the same halo, more than likely water has gotten into the halos connection and caused a short circuit. In most cases this will mean that the halo will need to be replaced. Contact us.