

# Intelligent LED Product Wiring Instructions

## Wiring

- If your light is supplied with a switch, please refer to the wiring diagram that came with the switch.
- This product contains an internal fuse, which will automatically reset in the event of a short circuit or power spike.
- If the device is supplied with a cigarette cord, there is a replaceable fuse in the tip. In the event this fuse should blow, replace with a fuse of **exactly the same** current rating.
- All customer extension wires should be of the proper gauge as shown in the table below. They should be fused at the battery with proper fuses and **never** with circuit breakers.
- Never use a battery charger to power the light. This will damage the internal components.

| Wire Colour | Wire Gauge | Wire Function  |
|-------------|------------|----------------|
| Red         | 18-20 AWG  | Positive       |
| Black       | 18-20 AWG  | Ground         |
| Green       | 22 AWG     | Pattern Select |
| Violet      | 22 AWG     | Dimming        |
| White       | 22 AWG     | i-Network      |
| Blue        | 22 AWG     | Master/Slave   |

## Quick Wiring Table

| Wire:                | Red                     | Black                   | Green                         | Violet                  | White                        | Blue                    |
|----------------------|-------------------------|-------------------------|-------------------------------|-------------------------|------------------------------|-------------------------|
| Feature              |                         |                         |                               |                         |                              |                         |
| Power                | Connect to Positive (+) | Connect to Negative (-) | ****                          | ****                    | ****                         | ****                    |
| Pattern Select       | ****                    | ****                    | Touch to Negative or Positive | ****                    | ****                         | ****                    |
| Dimming              |                         |                         |                               |                         |                              |                         |
| AutoDim              | ****                    | ****                    | ****                          | Connect to Negative (-) | ****                         | ****                    |
| Manual Dim ♦         | ****                    | ****                    | ****                          | Connect to Positive (+) | ****                         | ****                    |
| i-Network            |                         |                         |                               |                         |                              |                         |
| Master               | ****                    | ****                    | ****                          | ****                    | Connect to other White Wires | ****                    |
| Slave (Synchronized) | ****                    | ****                    | ****                          | ****                    | Connect to other White Wires | Connect to Positive (+) |
| Slave (Alternating)  | ****                    | ****                    | ****                          | ****                    | Connect to other White Wires | Connect to Negative (-) |

- ♦ Manual Dim requires an external switch. When activated, the light will dim.

# Intelligent LED Product Wiring Instructions

## Features and Operation

### Pattern Select:

- The GREEN wire allows you to select amongst a number of different flash patterns.
- To scroll through the patterns, momentarily touch the GREEN wire to the RED (POSITIVE) wire or momentarily touch the GREEN wire to the BLACK (GROUND) wire.
- A momentary switch kit will allow you to cycle through patterns (switch 766163, in kit 766170)
- If you have a cigarette cord, the pattern can be selected by using the momentary switch to cycle through the patterns.

### Dimming:

- Magnetic Mount lights **do not** have the ability to dim.
- The VIOLET wire allows for dimming. If you are not using the dimming feature, isolate and stow away the violet wire.
- To use the AutoDim feature, connect the VIOLET wire to the BLACK (GROUND) wire. The internal sensor will be activated and automatically adjust the light output when darkness is detected.
- To manually dim the light, connect the VIOLET wire to the RED (POSITIVE) wire. This should be done via an external switch.

### i-Battery Monitor

The Intelligent Battery Monitor is a factory-installed feature that will detect the voltage across your vehicle's battery. If your battery's voltage goes below 11.5V, the light will switch to a unique alert pattern prompting you to start your vehicle to charge your battery. Once the battery goes above 11.8V, the light will resume its previous operation

### Selectable Battery Monitor

The Battery Monitor is a factory-installed feature that will detect the voltage across your vehicle's battery. If your battery's voltage goes below an ideal preset value, the light will switch to a unique alert pattern prompting you to start your vehicle to charge your battery. Once the battery goes above the ideal level, the light will resume its previous operation. To disable this feature, follow these steps:

- Turn off the light
- Hold the pattern select wire (GREEN) to ground. For lights with a cigarette cord, hold the pattern select button down.
- Turn on the light
- After 1 flash, release the pattern select wire or button. The light will now function normally with the feature disabled.
- To reactivate the feature, perform the first 4 steps but wait for 2 flashes before releasing the pattern select wire or button.

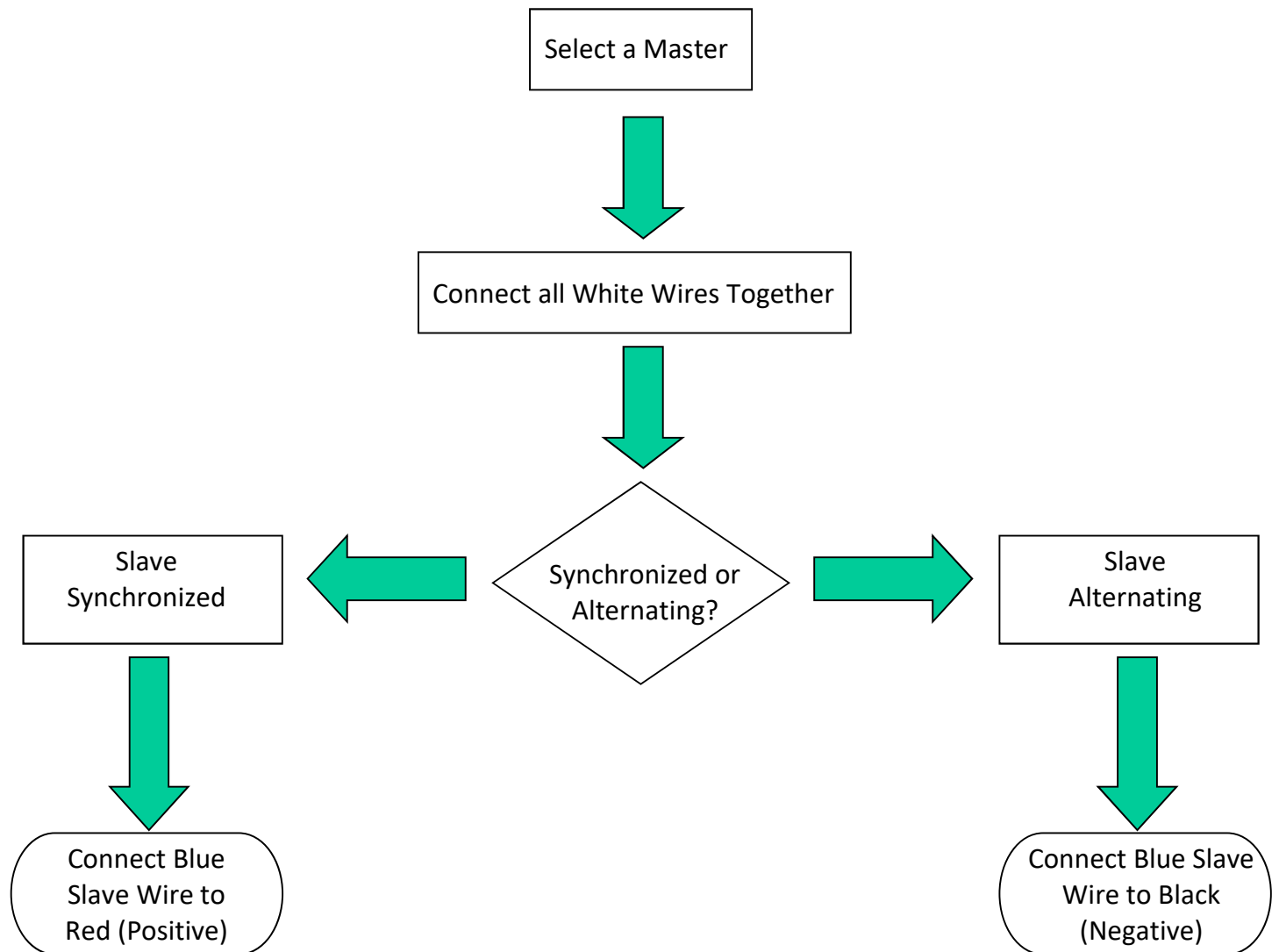
### Intelligent Network

- Magnet Mount versions **do not** have the ability to connect to the i-Network.
- The BLUE and WHITE wires are used for the Intelligent Network to synchronize up to 16 lights. If the light is to operate independently or if there is only one light present, these wires can be stowed away for future use if desired.
- Choose a master. The master light will control the features of itself and all slaves in the network (dimming, pattern select etc.) to make the light a **master**, connect its WHITE wire with all other WHITE wires.
- To make the light a **slave**, connect its WHITE wire with all other white wires and isolate and stow away its GREEN and VIOLET wires as the light will take the pattern select and dim commands from the master light.
- To make the slave light **synchronize**, connect its BLUE wire to the RED (POSITIVE) wire.
- To make the slave light **alternate**, connect its BLUE wire to the BLACK (NEGATIVE) wire.

*Note: Network will only work properly with similar firmware version unless stated otherwise.*

## Intelligent LED Product Wiring Instructions

### i-Network Wiring



# Intelligent LED Product Wiring Instructions

## Dome Removal

Please note: Unless dome is damaged and must be replaced, removal of dome may void warranty.

## TROUBLESHOOTING GUIDE

### If product will not work:

Some of these may not apply to your product

- Check all connections / crimps to ensure proper contact between wires
- Check power to vehicle Cig. Plug receptacle (May have blown fuse / may require ignition to be turned on)
- Check fuse (8A) in Cig. Plug (Access through tip of plug)
- If light is continually dim while using AutoDim mode, make sure top of lens is clean, and free from obstruction

**CALL SWS (1-877-357-0222) FOR FURTHER PRODUCT ASSISTANCE**