

## **Permanent Mount 3 Position Pigtail Instructions**

The following is a list of recommended practices for the installation and operation of your light.

**FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY AND/OR DEATH TO YOU AND YOUR PASSENGERS**

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures. You may need to consult a professional for installation.
- SWS Warning Systems Inc. recommends the use of waterproof butt splices and/or connectors for all electrical connections. It is recommended that the use of good dielectric grease be used on all connections where possible.
- If mounting this product requires drilling holes, the installer must be sure that no vehicle components or other vital parts could be damaged by the drilling process. Also de-burr the holes and remove any metal shards or remnants. Grommets are recommended for all wire holes.
- Do not mount the light close to antennae or radio equipment, as they may cause electromagnetic interference. After installation of the light, it is necessary to test all electronic equipment simultaneously to ensure that they operate free of interference from other components within the vehicle.
- Never power emergency warning equipment from the same circuit or share the same grounding circuit with radio communication equipment.
- Do not install this product or route any wires in the deployment area of your air bag or areas that interfere with the operation of the vehicle. Refer to your vehicle owner's manual for the air bag deployment area and recommended mounting areas for warning lights and other equipment.
- Do not use circuit breakers when installing these products. Use automotive grade fuses only.
- Do not attempt to activate or control the device with the vehicle in motion or in a hazardous driving environment. The vehicle should be stopped and in park before control of the light is attempted.
- Do not stare directly into these lights. Momentary blindness and/or eye damage could result.
- Use only soap and water to clean the product. Use of other chemicals could result in degradation and discolouration of the lens/dome.
- Do not use a pressure washer to clean this product.
- Inspect and operate this product regularly to confirm its proper operation and mounting condition.
- It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.
- SWS endeavours to maintain installation instructions for its products according to the latest requirements of vehicle manufacturers. SWS cannot guarantee, and shall not be held liable for, changes or updates a vehicle manufacturer may make which render SWS's products inoperable or otherwise.
- SWS Warning Systems Inc. and its subsidiaries are not responsible for any damages due to improperly mounted or improperly wired lighting equipment.

## **Wiring**

- Attach the small pigtail that is included in the box with the connector that comes out of the light. A small amount of dielectric grease should be applied first to optimize water resistance.
- All extension wires need to be appropriately sized depending upon the length that they are to travel. SWS recommends that for every 10ft. of length, the gauge be increased (i.e. for a length of 20ft, the power wires should be 18-16AWG).
- If you are unsure of your wire gauge or want to use a lesser gauge, check the voltage at the end of the wire length to ensure the light will receive adequate power.

| Wire Colour | Wire Function       |
|-------------|---------------------|
| Red         | Positive (+)        |
| Black       | Negative/Ground (-) |
| Green       | Pattern Select      |

## **Operation & Features**

### **Power and Pattern Select**

- By connecting the RED wire to the positive supply and the BLACK wire to the negative or chassis ground, the light will begin to flash.
- To change patterns momentarily, touch the GREEN wire to ground.
- You may wish to wire this light to a switch (switch kit #766163).

### **Battery Check Monitor**

The Battery Monitor is a factory-installed software feature that will detect the battery supply voltage at the beacon. If the voltage goes below an optimum voltage, the light will switch to a unique alert pattern (steady rapid flashing) prompting you to start your vehicle to charge your battery. Once the battery returns to an optimum voltage, the light will resume its previous operation. There are no external connections to activate this feature.

### **Thermal Management**

The Intelligent Thermal Management feature is a factory-installed feature that monitors the temperature of the LEDs inside the light. In the event the temperature exceeds the factory set desired level, the electronics will adjust automatically to attempt to bring the temperature down. There will be no effect on the light output or any other operation. This feature is meant to prolong the lifetime of the LEDs inside the light.

## **Trouble Shooting**

***If your light fails to work, please follow these troubleshooting tips before calling the factory:***

- Check all connections for breakage or corrosion.
- Check to see if the fuse has blown within the vehicle. If it has, replace with a fuse of the exact same amp rating.
- For long power wire lengths, ensure the voltage at the light connection is adequate. If not, you may have to shorten the length or increase the wire gauge.
- Ensure vehicle's battery is charged and that the charging system is functional.

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