

Fleet Plus LED Beacon Wiring 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 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.
- SWS Warning Systems Inc. does not recommend leaving a magnetically mounted light on a vehicle while the vehicle is in motion. The owner does so at their own risk.
- 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 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 Warning Systems Inc. and its subsidiaries are not responsible for any damages due to improperly mounted or improperly wired lighting equipment.
- Select a surface where the light is visible and free of obstruction.
- Mounting brackets are available from the manufacturer.
- A straight level is highly recommended to ensure the light is level.
- Ensure the vehicle is on level ground when installing.

- This product contains an internal fuse, which will automatically reset in the event of a short circuit or power spike.
- 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.

Wiring

- If your light **is supplied with a switch**, ignore the following wiring and use instructions that came with the switch.
- If your light **has a GREEN wire**, follow the wiring instructions on Page 2.
- If your light **does not have a GREEN wire**, follow the wiring instructions on page 3.
- If your light is a Magnetic Mount Version, see information on page 3.

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	Transmitter/Receiver

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 Positive (+)	****	****
Manual Dim	****	****	****	Connect to Negative (-)	****	****
i-Network						
Transmitter	****	****	****	****	Connect to other White Wires	****
Receiver (Synchronized)	****	****	****	****	Connect to other White Wires	Connect to Positive (+)
Receiver (Alternating)	****	****	****	****	Connect to other White Wires	Connect to Negative (-)

◆ Manual Dim requires an external switch. When activated the light will dim.

Dual Colour Wiring

Wire Colour	Wire Gauge	Wire Function
Red	18-20 AWG	Positive
Black	18-20 AWG	Ground
Yellow	22 AWG	Colour Select 1
Violet	22 AWG	Colour Select 2
White	22 AWG	i-Network
Blue	22 AWG	Transmitter/Receiver

Wire:	Red	Black	Yellow	Violet	White	Blue
Feature						
Power	Connect to Positive (+)	Connect to Negative (-)	****	****	****	****
Colour Select	****	****	Hold to Positive (+)	Hold to Positive (+)	****	****
i-Network						
Transmitter	****	****	****	****	Connect to other White Wires	****
Receiver (Synchronized)	****	****	****	****	Connect to other White Wires	Connect to Positive (+)
Receiver (Alternating)	****	****	****	****	Connect to other White Wires	Connect to Negative (-)

Pattern/Colour Select:

- The GREEN wire allows you to select amongst a number of different flash patterns. If there is no GREEN wire present, the YELLOW wire controls Colour 1 and the VIOLET wire controls Colour 2.
- To scroll up through the patterns, momentarily touch the GREEN wire to the RED (POSITIVE) wire. To scroll down through the patterns, momentarily touch the GREEN wire to the BLACK (GROUND) wire. If there is no GREEN wire, hold the YELLOW or VIOLET wires to the positive.
- A momentary switch kit will allow you to cycle down through patterns only, for lights equipped with a GREEN wire (switch 766163, kit 766170)
- If you have a magnetic mount light, the pattern can be selected by using the momentary switch on the cigarette cord to cycle down through the patterns.

Dimming:

- Magnetic Mount lights and lights **not** equipped with a GREEN wire, have **no** dimming feature.
- The VIOLET wire allows the 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 RED (POSITIVE) 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 BLACK (GROUND) wire. This should be done via a switch.

BatteryCheck:

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.

Intelligent Network:

- Magnetic Mount lights 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 Transmitter. This master light will control the features of itself and all receivers in the network (dimming, pattern select etc.). To make the light a **Transmitter**, connect its WHITE wire with all other WHITE wires.
- To make the light a **Receiver**, connect its WHITE wire with all other white wires and isolate and stow away its other wires as the light will take the pattern select and dim commands (where applicable) from the Transmitter light.
- To make the Receiver light **synchronize**, connect its BLUE wire to the RED (POSITIVE) wire.
- To make the Receiver light **alternate**, connect its BLUE wire to the BLACK (NEGATIVE) wire.

