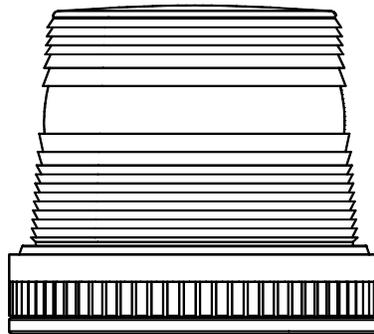

INSTALLATION AND INSTRUCTION MANUAL

360° LED Lights



Please Note: These instructions are provided as a general guideline only. Specific mounting, wiring, and/or weather-sealing may be necessary and are the sole responsibility of the installer. The manufacturer assumes no responsibility for the integrity of the installation for this or any of its products.

CAUTION: All of our DC powered warning lights are polarity sensitive. These lights are polarity protected *only if the appropriate fuse* is used. All wires connected to the positive terminal of the battery should be fused at the battery for their rated load. **Testing the light before this fuse is properly installed will void the warranty on the light.**



PROUDLY MADE IN THE USA
An ISO 9001:2008 Certified Company

Magnet Mounting

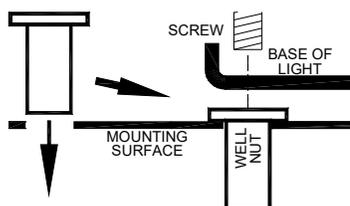
If you are mounting the light on the roof of your vehicle, take extreme care to ensure that the magnet is firmly seated on your roof, and that the pull of the magnet is sufficient to secure the light in place. As the composition of the metal in the roofs of different vehicles may vary, as well as the contour, texture and/or condition, Star cannot guarantee the ability of the light to remain in place upon a moving vehicle. It is the sole responsibility of the owner to ensure the warning light is secure.

WARNING!!! Care should be taken when positioning any warning light on the roof, dash, or instrument panel of the vehicle, so that the light and/or cord does not interfere with the proper operation of any airbags! Failure to heed this warning may result in serious or fatal injury.

- Once the light is secured, route your cord such that it does not interfere with the vision of the driver or the operation of any controls, including, but not limited to, the steering wheel, gear shifter, and/or airbag.
- This light has been factory tested and approved. If the light fails to work when the plug is inserted into the cigarette plug socket, twist the plug a few times to remove any ash or other deposits which might be preventing a good contact from being made. If the problem persists, check for a fuse inside of the plug itself. If present, remove the fuse from the circuit, check to see if it has blown, and clean the lighter socket and contact surfaces. Reconnect the fuse and test the light again.

Permanent Mounting

1. This light is equipped with a combination base, allowing the light to be either mounted on threaded conduit pipe or permanently mounted. For 1/2" NPT pipe (3/4" for some models), mount the light using the threaded entrance hole in the base of the light, then skip to the **Wiring Instructions**. For the permanent mount, proceed below.
2. Unscrew the dome and use a punch or drill to remove the knock-outs.
3. Using the gasket as a template, mark your mounting holes in the surface.
4. Drill your holes using an appropriate 3/8" drill bit (if mounting lights that have connectors on the wires, use an 11/16" bit for the center hole).
CAUTION: If you are mounting the light on a vehicle, and plan to wire it through the roof of the vehicle, remove the headliner from the inside of the vehicle. If you do not remove the headliner, take care so that you do not drill through it.
5. After the holes have been drilled, push the enclosed rubber well nuts through the outer holes until the bottom side of the wider lip rests on the surface of the vehicle.
6. Place the light on the surface of the vehicle, routing the wires through the center hole, if applicable, align the holes with the well nuts, install the screws through the base, into the well nuts, and tighten until snug.



Wiring Instructions

- Black** : Ground lead - Connect to a good chassis ground.
- Red** : Power - Connect to the positive side of your power source (+12VDC) through a switch and a 5 Amp fuse. *Check your light for proper voltage.*
- Green** : Pattern Select - Touch and release to ground to cycle through patterns.

Pattern Programming

Set the flash pattern using either of the following:

- Green wire (*permanent mount versions*)
- Pattern Select switch on the cig plug (*mag mount versions*)



1. Power up the light. The lights are preset at the factory for Pattern #6.
2. Cycle through the patterns by touching and releasing the green wire to ground or pressing and releasing the Pattern Select button.
3. After the pattern has been set, tape or place a wirenut over the end of the green wire to prevent it from coming into contact with ground again (*permanent mount versions*).

Patterns

Phase 1 Flash Pattern	Phase 2 Flash Pattern (Rotating Only)	Pattern Type	S-LINK SYSTEM Pattern Description	Non-Rotating Shortcut	Rotating Shortcut
1	13	K	Flicker †	← Pattern 1: 3 sec or 1 flash	← Pattern 4: 3 sec or 1 flash or Pattern 16: 9 sec or 3 flashes
2	14	L	Fast Doubleflash		
3	15	M	Tripleflash †		
4	16	A5	PSU Flicker (200ZHL only) CCW Rotation (200ZHL only)	← Pattern 6 : 6 Sec or 2 flash	← Pattern 6 : 6 Sec or 2 flash or Pattern 18: 12 sec or 4 flashes
5	17	A6	PSU Random (200ZHL only) CCW Fast Rotation (200ZHL only)		
6	18	F	Quadflash †		
7	19	G	Quadflash w/Post-Pop †	← Pattern 6 : 6 Sec or 2 flash	← Pattern 6 : 6 Sec or 2 flash or Pattern 18: 12 sec or 4 flashes
8	20	H	Singleflash †		
9	21	I	Doubleflash †		
10	22	J	Variable AKA Delta-Omega		
11	23	C	Post pop 1.4CPS †		
12	24	E	Random 0.4CPS		
N/A			Steady	9 sec or 3 flashes	15 sec or 5 flashes

† - **Approved patterns for SAE J845**

Pattern Shortcuts: Press Pattern Select button or hold Green wire to ground for indicated time.

Steady Burn: Not in pattern cycle. Only accessible through shortcut. Press Pattern Select button or hold Green wire to ground for time indicated above.

Low Voltage Detection

⚠ Rotating Series Only !!

All of the beacons that have the rotational patterns also have low input voltage detection. With this feature the beacon senses the input voltage and flashes a fast pattern (approximately 16 cycles per second) to indicate to the user that the battery voltage is low (less than 10V). Once the input voltage returns to normal (greater than 12V) the unit will return to the normal flashing.



PROUDLY MADE IN THE USA
An ISO 9001:2008 Certified Company