# SPDL-LEDB-5 Instruction Guide
# 1W Solar Powered 24/7 LED Strobe Dock Light

Thank you for your purchase of the Larson Electronics SPDL-LEDB-5 series LED Strobe Light. This light is completely assembled, tested and ready for installation when shipped from the factory. Please follow the steps below in order to operate and maintain this product.

## IMPORTANT

READ CAREFULLY BEFORE OPERATING THIS LIGHT. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

WARNING: IF UNSURE ABOUT ANY SECTION OF THESE INSTRUCTIONS, CONSULT A QUALIFIED PROFESSIONAL TO INSTALL THIS DEVICE.

WARNING: DEVICE IS SUITABLE FOR INSTALLATION IN WET LOCATIONS; MARINE APPLICATIONS.

WARNING: ALTHOUGH FIXTURE IS WATERPROOF, IT IS NOT DESIGNED OR INTENDED TO BE SUBMERGED.

WARNING: DO NOT ALLOW DETACHABLE CHARGER WIRES TO BECOME SUBMERGED!

- IF DROPPED OR DAMAGED, THE UNIT MAY NO LONGER BE WATERPROOF AND SHOULD BE REPLACED.
- TO AVOID HAZARDS TO CHILDREN, ACCOUNT FOR ALL PARTS AND DESTROY PACKING MATERIALS.
- THE BASE CONTAINS A SMALL MAGNET. PEOPLE WITH PACEMAKERS SHOULD CONSULT THEIR PHYSICIAN(S) BEFORE USE. ELECTROMAGNETIC FIELDS IN CLOSE PROXIMITY TO HEART PACEMAKER COULD CAUSE PACEMAKER INTERFERENCE OR PACEMAKER FAILURE.

## HOW SOLAR LIGHT WORKS

Solar light must be placed outdoors. The built-in solar panel collects and converts sunlight into DC power everyday while the pre-installed rechargeable batteries store the energy to power the light at night. The built-in sensor automatically activates the light at dusk and deactivates it at dawn when using MODE 2 (NIGHT STROBE).



**Solar light illumination time**

It depends on the seasonal sunlight availability in your geographical area under certain weather conditions. Stronger or longer sunlight hours enable batteries to store more energy which provides more lighting hours. On the contrary, weaker or shorter sunlight hours reduce the lighting hours and its brightness as well.



**Solar light mounting locations**

Solar light must be placed outdoor at a location with its solar panel receiving direct sunlight at least five hours each day. Shadowed locations will not allow batteries to be fully charged and will reduce both the brightness of the light and the lighting hours. Precautions (prior to first time use)

1. To maximize battery capacity, the solar light should be fully charged by direct sunlight for five hours before initial use.
2. Do not place solar light near a lighted object as the automatic on/off in MODE 2 (Night Strobe) may not work properly.
3. Under extremely cold temperatures, the batteries may not charge fully. In such cases, the Solar Lights may not stay illuminated as long.

## INSTALLATION

## MOUNTING

This LED strobe light includes a permanent mounting system with through holes for the mounting base. Once attached, the beacon can still be removed by twisting the beacon counter-clockwise off the base. This twist lock design allows operators to remove the light for vehicle charging if necessary.



Remove the mounting plate from the light and mark holes on surface. Drill through holes for bolts or screws to fit through. Attach beacon to mount on and twist to secure.

The selected location should not be near night time light sources such as porch lights or street lights as they may cause the solar light to turn off automatically.

## OPERATION

After the battery has been fully charged, press the power button on the base of the unit to illuminate strobe light. There are 3 modes:

**1st PRESS:** STROBE (Illuminates LED strobe light)

**2nd PRESS:** NIGHT STROBE (Illuminates LED strobe only after dark and turns off at dusk)

**3rd PRESS:** OFF (Turns the LED strobe off but will continue to charge in sunlight)

It is normal that solar lights may turn on or off at slightly different time from one another as their sensors may detect the sunlight strength differently from their individual locations.

Automatic on/off (NIGHT STROBE) works properly only by outdoor direct sunlight.

Solar panel surface must be kept clean to collect sunlight effectively.

## CHARGING

With up to 5 hours of daily sunlight, this light is designed to function 24 hours a day, seven days a week. Ensure light is placed in an area with a clear view to the sky and that there are no obstructions.

For vehicle charging, there is a charge port next to the power button on the base of the beacon. Remove the rubber cover and connect charger to light. Plug the other end to compatible power source.

## MAINTENANCE

If the lens or solar panel becomes dirty, wipe down with a mild soap and water solution.

Keep snow and debris clear of the solar panel so the battery can be recharged. If the panels are covered by snow or debris for an extended period of time, allow the battery to charge in full direct sunlight for at least 5 hours for the battery to reach its full capacity.

It is recommended to occasionally inspect the unit for any defects.

## TROUBLESHOOTING

If for any reason the LED beacon does not power on:

- ➔ **Batteries not fully charged:** Make sure the fixture is placed in an area where the solar panel gets the maximum amount of full, direct sunlight every day. If the solar panel does not receive enough sunlight during the day (e.g. due to cloudy or overcast weather conditions), it will be recharged on the next sunny day and resume operation. Try charging via the external 12v charger.
- ➔ **Other light sources:** If your solar garden light is located too close to street lights, porch lights or other lights, the solar panel may turn off the fixture. Relocate the fixture or eliminate those other light sources.
- ➔ **Not enough direct sunlight:** Ensure that the fixtures are not installed in a shady area, for example, in the shadow of a tree or a house. If necessary, move the fixtures to an area that gets full direct sunlight.
- ➔ **Switch is in the OFF position:** Cycle power button to STROBE Mode 1 in a dark room. The light(s) should come on when the switch is in the on position if the unit is fully charged.

Should further information not covered by these instructions be required, please contact Larson Electronics at 1-800-369-6671 for further assistance.

Please visit LarsonElectronics.com for **Warranty** and **Return** information.