Operation Guide

Thank you for purchasing the Larson Electronics **EXPLED-SOL12-M-SW.M-10C** solar powered Explosion Proof light. Follow the steps below for installing and maintaining your unit.

IMPORTANT

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

THIS FIXTURE SHOULD BE INSTALLED BY QUALIFIED TECHNICIANS IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY LOCAL REQUIREMENTS.

STANDARD PLUGS AND SOLAR PANEL MUST ONLY BE INSTALLED AND LOCATED OUTSIDE THE HAZARDOUS AREA!

IMPROPER USE OF THIS LIGHT, ASSOCIATED PLUG, RECEPTACLE, AND CORD CAN LEAD TO SERIOUS INJURIES OR DEATH TO PERSONNEL.

PERIODIC INSPECTION OF THE LAMP AND CORD IS NECESSARY.

THE CORD MUST BE ROUTINELY CHECKED FOR CUTS, BREAKS, OR ANY SEVERE ABRASIONS, AND IF ANY ARE FOUND, THE CORD MUST BE REPLACED BEFORE RESUMING USE OF THE HANDLAMP.

THE GLOBE IS MADE OF TEMPERED GLASS. IF THIS GLASS BECOMES SCRATCHED OR CHIPPED IT SHOULD BE REPLACED IMMEDIATELY.

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.

KEEP FINGERS AWAY FROM MAGNET WHEN MOUNTING AS INJURY COULD OCCUR.

HOW SOLAR LIGHT WORKS

Solar light must be placed outdoors. The solar panel collects and converts sunlight into DC power while the pre-installed rechargeable batteries store the energy to power the light at night.

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 panel mounting locations

Solar panel 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 panel should be fully charged by direct sunlight for five hours before initial use.
2. Under extremely cold temperatures, the batteries may not charge fully. In such cases, the Solar Lights may not stay illuminated as long.

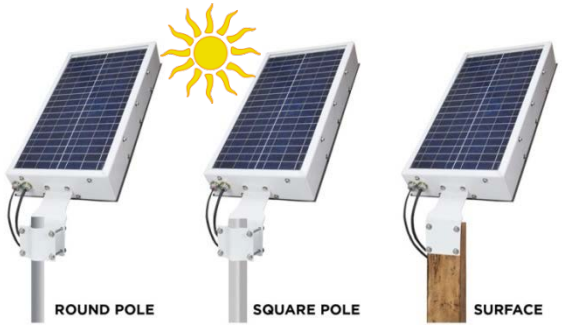
MOUNTING SOLAR PANEL

This solar panel includes a permanent mounting system that allows for mounting to square/round poles or flat surfaces such as a wall or post shown in figure 1.

Position the solar panel in a location that receives the maximum amount of sunlight throughout the day. This may need adjusted depending on the season. With pole mounting, loosen the adjustment bolts to fit solar panel onto pole. Once mounted, tighten bolts snug to secure panel to pole. For surface mounting, remove additional plate and use the existing mounting holes to mount directly to surface.

MOUNTING

WARNING: ONLY LAMP AND INLINE SWITCH ARE RATED FOR HAZARDOUS AREAS. MOUNT THE SOLAR PANEL OUTSIDE THE HAZARDOUS ENVIRONMNT.



The light is connected to the panel by cord. Be sure the beacon is connected to the solar panel and that the connections are tight (if detachable). Run the cord and mount the beacon nearby.

Lamp: Mount the beacon to a ferrous metallic surface capable of holding the weight of the lamp. Route cable in a safe manner to prevent snags and/or potential injury to personnel.

Inline Switch: Route the switch to a ferrous metallic surface capable of holding its weight. Route cable in a safe manner to prevent snags and/or potential injury to personnel.

RE-LAMP

To re-lamp loosen the locking screw and remove the globe support assembly.

The globe support assembly disengages after approximately 3 turns. *Replace the lamp with one of the correct size and type. Refer to the fixture nameplate for this information. When re-lamping be careful not to damage the threaded areas of the fixture, as they maintain the fixture's explosion proof properties. Clean the threads and apply a thin coating of lubricant before reassembling.

ON/OFF SWITCH

The on/off switch powers the beacon on or off with the flip of a switch. The power switch is attached to the solar panel for operating the beacon at a moment's notice.

After the batteries have been fully charged, the beacon will illuminate with configured panel operation listed.
The solar panel surface must be kept clean to collect sunlight effectively.

SOLAR CHARGING

With up to 5 hours of daily sunlight, this beacon is designed to function 12 hours. Ensure there are no obstructions that could result in little to no sun reaching the panels.

MAINTENANCE

LAMP MAINTENANCE

CAUTION - Turn OFF the supplying circuit before opening fixture for relamping. To relamp loosen the locking screw and remove the globe support assembly.

NOTE: The globe support assembly disengages after approximately 3 turns. * Replace the lamp with one of the correct size and type. Refer to the fixture nameplate for this information. When relamping be careful not to damage the threaded areas of the fixture, as they maintain the fixture's explosion-proof properties. Clean the threads and apply a thin coating of lubricant before reassembling.

CLEANING: To maintain maximum light output, the fixture should be cleaned periodically. Maintenance procedures sometimes require fixtures to be hosed down for good housekeeping. NOTE: The supply circuit must be turned OFF and the fixture globe must be allowed to cool to the ambient room temperature before cleaning. Only mild, non-abrasive cleaning agents should be used. These periodic cleaning procedures are important to prevent the accumulation of dust and dirt which will impair the light output of the fixture. The glass globe should be regularly inspected for scratches and chips and, if damaged, the entire globe support assembly must be replaced.

SOLAR 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 batteries can charge. 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.
- **Other light sources:** (For units equipped with a day/night sensor.) If your solar light is located too close to street lights, porch lights or other lights, the solar panel may turn off the fixture. Relocate the solar panel 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:** (For units equipped with a power switch.) Cycle power button in a dark room. The light(s) should come on when the switch is in the on position if the unit is fully charged.

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