Larson Electronics LLC www.LarsonElectronics.com sales@larsonelectronics.com
9419 E US HWY 175, Kemp, TX 75143 - P: (800) 369-6671 - F: (903) 498-3364

WAL-16LED-BP

SETUP PROCEDURE

1. Lay case on its back and open lid.
2. To release the stainless steel legs, push in on the pin located at the base of the leg and rotate out until it locks into place.
3. Rotate mast up and out until it locks into position.
4. The leg can be further extended by pulling out on the leg until it locks. To retract, push in on the pins, both sides, and slide back into its sleeve.
5. Stand the light unit upright and extend the light pole to the desired height.
6. Start with the top thumb screw, extend the pole and tighten into position.

BREAKDOWN PROCEDURE

1. Lower telescoping pole to its fully collapsed position and lay unit on its back.
2. Fold light assembly into case by depressing the pins on both sides of the mast swivel.
3. Align all thumb screws so that they lay flat against the battery pack.
4. Make sure lights are facing up with the rounded portion of the mast head facing in.
5. Route light mast cord down the right side of the case, under the battery cover and over the leg base.
6. Push and release pins on each leg and fold into case.
7. Close and lock lid.

POWER OPTIONS

- Receptacle is used for line voltage charging.
- The standard cord is set for 115 VAC. International cord sets are available for various countries worldwide.
- Standard power port receptacle can be used to charge and/or operate the light from a vehicle battery source.
- Contact Customer Service for details.

POWER OPTIONS WITHOUT EXTERNAL 12 VDC POWER SOURCES

- To operate the light on its own internal battery, the “EXTERNAL INPUT/OUTPUT” switch, located upper right on the control panel, should be switched off.
- The light series portable lighting systems equipped with the single or dual light internal battery pack system are powered by an onboard 12VDC 22 AMP/HR deep cycle sealed lead acid, (SLA), absorptive glass matt, (AGM) battery.
- The battery is UL recognized, valve regulated, maintenance free, non-spill able and facilitates storage of the Air light in any position.
- All batteries are affected by temperature changes. The ideal storage/operation temperature is 68°F, (20°C), but can safely be stored/operated at - 40°F to 140°F, (-40°C to 60°C). Lower temperatures, below 68° F,(20°C), will decrease amperage output and reduce the amount of time the light can be operated on its internal battery.
- Deep cycle battery’s recharging requirements and life span, (Cycles), are greatly affected by depth of discharge, (DoD). Cycles are the number of times a battery can be discharged and

recharged. The ideal DoD for batteries of this type is 30% of capacity. Depleting beyond 90% DoD or greater is not recommended and will severely reduce battery cycle life.

OPERATING THE LIGHT WITH EXTERNAL 12 VDC POWER SOURCES

- If an alternate source of 12 VDC power is available, (i.e. vehicle, generator or portable power), the light can be powered by these external sources, leaving the internal battery in reserve for later use or after the internal battery has been depleted. There are two methods for running the light on external DC power sources.

TO OPERATE THE LIGHT UTILIZING JUMPER CABLES

The light is equipped with jumper cable connection posts, POS (+) on the left of the control panel and NEG (-) on the right. To utilize this power input option:

1. Turn vehicle ignition off before making cable connections.
2. Connect jumper cables to vehicle battery, (Red grip to POS (+) terminal and Black grip to NEG (-) terminal).
3. Connect jumper cables to light control panel. Red grip to POS (+) and Black grip to NEG (-) post. DO NOT TOUCH RED POS (+) GRIP TO BLACK NEG(-) GRIP.
4. Switch the “EXTERNAL INPUT/OUTPUT” switch on.
5. Switch lights on. The light will now run off of the vehicle battery. It is Recommended that the vehicle be running during operation in this mode as it will drain the vehicle battery. **NOTE:** Operating in this mode will recharge the lights internal battery.

TO OPERATE THE LIGHT UTILIZING THE DC POWER RECEPTACLE

- The light is equipped with a marine grade, suitable for outdoor use, locking DC accessory receptacle, located on the right hand side of the case by the carry handle. It is accessed from outside the box by removing the dust cover from the receptacle.

TO UTILIZE THIS OPTION WITH A VEHICLE AS THE EXTERNAL POWER SOURCE

1. Plug one side of the dual end DC power cord into the light DC accessory receptacle and twist to lock, (pay note to the lock markings on the plug and receptacle for indexing the locked position).
2. Plug the other side of the dual end DC power cord into a vehicle cigarette lighter well or auxiliary power outlet.
3. The “EXTERNAL INPUT/OUTPUT” switch should be in the off position
4. Switch lights on. The light will now run off of the vehicle battery. It is recommended that the vehicle be running during operation in this mode as it will drain the vehicle battery. The light DC accessory receptacle is connected directly to the internal battery. **NOTE:** Operating in this mode will recharge the light’s internal battery.
   NOTICE: Because the light DC accessory receptacle is connected directly to the internal battery, when not using this external source option, you can plug any accessory up to 8 amps, (i.e. laptops, cell phone chargers of the light hand held units), into the receptacle and the light will provide power. If the amperage rating is exceeded, a built in auto-reset circuit breaker automatically shuts power off until the accessory overload is removed.

TO DISCONNECT AFTER USE:

1. Switch lights off.
2. Turn vehicle ignition off.

3. Disconnect the dual end DC power cord from the vehicle.
4. Disconnect the dual end DC power cord from the light by twisting the plug away from the lock arrows and pulling.

TO OPERATE THE LIGHT UTILIZING AC POWER

- The light is equipped with an unpolarized power receptacle located on the right hand side of the case by the carry handle just above the DC accessory receptacle.
- It can operate on either 110/240 Volt, 50/60 Hz mains power.
- This power receptacle is directly connected to the onboard 3 amp 3 stage battery charger/maintainer, and is typically used for recharging the internal battery.
- It can also be used as a supplemental power source to the internal battery.
- The charger does not have a sufficient DC power output to run most light configurations on its own, but when connected to an AC wall outlet using the provided power cord, can extend the run time duration of the internal battery typically by 25% or more. (For extended run times it is recommended that an external source of 12VDC power by utilized instead).

TO UTILIZE THIS AC INPUT OPTION

1. The “EXTERNAL INPUT/OUTPUT” switch should be switched to the off position.
2. Plug the side of the power cord into the power receptacle on the light.
3. Plug the other end into an AC wall outlet.
4. Turn the lights on.
5. When the internal battery has been depleted, the lights should be switched off and the unit recharged or utilize one of the before mentioned external DC power input methods for continued operation.

TO DISCONNECT AFTER USE

1. Turn the lights off.
2. Unplug the AC power cord from the AC wall outlet.
3. Unplug the AC power cord from the socket.
4. Recharge the light using AC power. The light is equipped with an onboard 3 amp 3 stage automatic battery charger/maintainer. It can operate on either 110/240 volt, 50/60 Hz mains power. An un-polarized power receptacle, located on the right hand side of the case by the carry handle just above the DC accessory receptacle, is used to connect the light to AC power. The unit can be left continually connected to AC power, maintaining the battery at full capacity for future use.

TO RECHARGE USING AC WALL OUTLET

1. The “EXTERNAL INPUT/OUTPUT” switch should be in the off position.
2. Plug the side of the power cord into the power receptacle on the light.
3. Plug the other end into an AC wall outlet. Recharging time is a factor of DoD.
4. It is recommended that the unit be charged at least 12 hours or overnight to condition the battery for next use. **NOTE:** Faster charging times can be approximated by multiplying the battery amps, 22, by the estimated %DoD, (ie.22amps X 50%DoD(0.5)=11 amps to recharge, divide the 11 amps to recharge by 3 amps/hr of charging current from the charger, time in hours equals approximately, 3.7hours.

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NOTICE: The light is equipped with a digital DC volt meter that operates when the "Battery Test" pushbutton switch is depressed and held for 2 seconds. This will display the current voltage level of the internal battery or the external 12 VDC power source. This switch can be depressed any time in any mode if you want to check voltage levels. When connected to AC power during charge cycle, the meter should illuminate at 13-14 volts.

RECHARGING THE LIGHT USING DC POWER

- The light is equipped with a marine grade, suitable for outdoor use, locking DC accessory receptacle, located on the right hand side of the case by the carry handle. It is accessed from outside the box by removing the dust cover from the receptacle.

TO USE A VEHICLE CHARGING SYSTEM AS THE DC POWER SOURCE

1. Plug one side of the dual end DC power cord into the light DC accessory receptacle and twist to lock, (pay note to the lock markings on the plug and receptacle for indexing the locked position).
2. Plug the other side of the dual end DC power cord into a vehicle cigarette lighter well or auxiliary power outlet.
3. The "EXTERNAL INPUT/OUTPUT" switch should be in the off position.
4. Insure lights are switched off. The light internal battery will now charge off of the vehicle electrical system.
5. The vehicle must be running to charge using this method.

TO DISCONNECT AFTER USE

1. Turn vehicle ignition off.
2. Disconnect the dual end DC power cord from the vehicle.
3. Disconnect the dual end DC power cord from the light by twisting the plug away from the lock arrows and pulling.
4. Recharging time is a factor of DoD. Vehicle charging systems can vary in output capacity, but will typically recharge the unit at a rate of 5 amps/hr.
   NOTE: Charging times can be approximated by multiplying the battery amps, 22, by the estimated %DoD, (ie.22amps X 50%DoD(0.5)=11 amps to recharge, divide the 11 amps to recharge by 5 amps/hr of charging current from the vehicle, time in hours equals, (2.2hours).