

THE BEACON LED TOWER: USER MANUAL





SAFETY PRECAUTIONS:

FAILURE TO FOLLOW THESE PRECAUTIONS COULD RESULT IN SERIOUS INJURY OR DEATH

OPERATING PRECAUTIONS

- DO NOT DEPLOY THE MAST IF THERE IS EXPECTATION OF HEAVY WINDS
- ENSURE THAT THE BEACON LED TOWER IS MADE LEVEL BEFORE DEPLOYING THE MAST. STABILIZATION JACKS CAN BE USED TO LEVEL THE UNIT
- DO NOT DEPLOY THE MAST UNTIL THE STABILIZATION JACKS HAVE BEEN EXTENDED FULLY AND ARE FIRMLY PLANTED ON THE GROUND
- KEEP CLOTHING, HAIR AND APPENDAGES CLEAR OF MOVING PARTS
- WHEN OPERATING THE MACHINE, DO NOT TOUCH HOT SURFACES OR EXPOSE COMBUSTABLE MATERIAL TO HOT SURFACES
- PERFORM DAILY INSPECTIONS OF THE EQUIPMENT TO ENSURE THAT NO DAMAGE EXISTS THAT MIGHT INTERFERE WITH SAFE OPERATION

TRANSPORTATION PRECAUTIONS

- DO NOT TRANSPORT THE BEACON LED TOWER WITH FUEL INSIDE THE CABINET
- USE APPROPRIATE FUEL HANDLING PRECAUTIONS AT ALL TIMES WHEN TRANSPORTING AND OPERATING FUEL TANKS AND GENERATORS
- MAST MUST BE FULLY RETRACTED AND LIGHT HEAD ASSEMBLY LOWERED TO THE HORIZONTAL POSITION OR REMOVED ENTIRELY PRIOR TO TRANSPORT
- BEACON LED TOWER MUST BE TIED DOWN DURING TRANSPORTATION



ELECTRICAL PRECAUTIONS

FAILURE TO FOLLOW THESE PRECAUTIONS COULD RESULT IN ELECTROCUTION

- ENSURE THAT THE UNIT IS CLEAR OF OVERHEAD WIRES AND OBSTRUCTIONS BEFORE DEPLOYING THE MAST
- DO NOT USE UNIT IF ELECTRICAL CORDS ARE CUT OR WORN THROUGH
- DO NOT ALLOW WATER TO CONTACT LIVE ELECTRICAL COMPONENTS. REGULAR INSPECTIONS SHOULD BE UNDERTAKEN TO ENSURE THAT ELECTRICAL COMPONENTS ARE IN GOOD OPERATING CONDITION
- WHEN UTILIZING A GENERATOR WITH THE BEACON LED TOWER FOLLOW ALL OPERATING INSTRUCTIONS PROVIDED BY GENERATOR MANUFACTURER INCLUDING PROPER GROUNDING PROCEDURES

SECTION A: ASSEMBLING THE BEACON LED TOWER

In some cases, the Beacon LED Tower may arrive with certain components removed in order to facilitate shipping. However, if these components are already attached upon receipt, you may skip the following steps as appropriate.

STEP 1: ATTACHING WHEELS

Place the wheels on the axles on all four corners of the Beacon LED Tower. Ensure that the wheels are mounted such that the threads on the end of the axle are fully exposed through the hub of the wheel. Use the supplied nuts, to fasten the wheels to the axles and tighten using a wrench. Test the wheels to ensure that they roll freely and do not rub against any parts of the cart.

STEP 2: INSERTING STABILITY JACKS

Slide the four stability jacks into the receivers on all four corners of the Beacon LED Tower and lock them into place using the supplied locking pins.



STEP 3: ATTACHING LIGHT HEADS TO T-BAR:

Position the light heads on a flat surface in line with the mounting holes on the t-bar. Thread the mounting bolt through the centre hole on the mounting yoke of the lights and the mounting hole on the t-bar. Use the supplied nuts and washers to secure the lights to the t-bar.



Feed attachment bolt through both lights and the mounting yoke then affix the washer and nut

SECTION B: PREPARING THE BEACON LED TOWER FOR USE

STEP 1: POSITION AND STABILIZE THE BEACON LED TOWER

Position the cart on a solid surface and a flat incline. Full extend the stability jacks and lock them into place by inserting the pull pins into the final locking hole on the jacks (see picture below).

Extend the feet of the stability jacks using the crank handles until they are firmly on the ground. If necessary, use the jacks to ensure that the Beacon LED Tower is completely level before deploying the mast.

When possible, avoid lifting the wheels entirely off the ground as the wheels can provide additional stability.



WARNING: If the Beacon LED Tower is not made level before the mast is deployed, the cart will be at risk of tipping which could cause damage and/or injury.

STEP 2: ATTACH LIGHT HEAD ASSEMBLY:

Attach the U-shaped mounting bracket to the end of the t-bar using the supplied bolt.

Using two people, line up the mounting holes on the t-bar with the corresponding holes on the mounting bracket. Secure the t-bar to the bracket using the supplied hitch pin.

Extend the t-bar to the straight (horizontal) position and lock in place using the supplied lock pin. Picture below shows the cart with light head in the straight (horizontal) position.

Position the light heads in the direction that they are to point when the mast is extended. Lights can be turned from side to side by simply rotating the light head. Lights can be swivelled up and down by releasing the spring pin on each side of the light head and then adjusting the head up or down and then releasing the pin to lock in place.

Attachment Bolt

Hitch Pin

Lock Pin



STEP 3: EXTEND THE MAST

Remove the locking pin from the resting bracket, located on the mast near the light heads.

Using the lower winch, slowly move the first stage of the mast into the vertical position. Once vertical, insert the lock pin through the locking hole to hold mast in place (picture below shows light with first stage deployed).

NOTE: The mast will come to a stop just short of a completely vertical position. This is intended as it allows for an easier lowering of the mast when done. Do not try to force the mast into a completely vertical position.



Once the first stage mast is locked in place, the upper winch can be used to extend the mast to the desired height. The mast will stop deploying when it has reached its maximum height. Do not attempt to force the winch further once it has reached the stop.

STEP 4: POWER THE LIGHT SYSTEM

If using a generator, position the generator in the cabinet with the exhaust pointed toward the **GENERATOR EXHAUST HERE** sticker on the side of the cabinet. Exhaust should be positioned directly in front of the large ventilation slots in the side of the cabinet.

If using the auxiliary fuel system, the system should be set up according the instructions included with the fuel system.

Using the plug located inside of the cabinet, plug the lighting system into the generator system.

Alternatively, the plug can be attached to an external power source using an extension cord. If using external power, an extension cord can be run into the cabinet either through ventilation holes in the side panels of the cabinet or the drainage holes in the floor of the cabinet.

Turn the light heads on using the light switch located in the outlet box on the outside of the cabinet. If the lights do not turn on, reset the Ground Fault Circuit Interrupter by pressing the 'reset' button located next to the light switch.

STEP 5: LOWERING THE MAST

Using the upper winch, completely lower the mast down until it cannot be further retracted.

Remove the lock pin that is locking the first stage mast in the vertical position.

Using the lower winch, gently lower the first stage mast to the horizontal position until it is sitting on the resting bracket. Use the locking pin to lock the mast into the resting bracket.

If necessary, hand pressure can be applied to the mast in order to assist in returning it to the horizontal position.

SECTION C: TRANSPORTING THE BEACON LED TOWER

Ensure the mast is all the way down before moving the light.

The Beacon LED Tower is a man-portable light, and can be maneuvered around the jobsite by way of the included pull handle and wheels. Remove the locking pin from the pull handle and the Beacon LED Tower can easily be pulled by one person.

The Beacon LED Tower is NOT meant to be towed by a motorized vehicle. Do NOT attempt to tow on roads of any type.

The Beacon LED Tower can be easily lifted into a vehicle such as a pick-up truck for transporting long distances. Several people can lift the Beacon LED Tower into a vehicle, or a crane or forklift can be used. If lifting manually, ensure the light heads are removed (see below), the generator is removed, and that no one is lifting excess weight to avoid strains or injury.

When transporting the Beacon LED Tower in a vehicle, the light heads should either be removed by pulling the quick release hitch pin and the locking pin in the u-shaped mounting bracket between the t-bar and the mast OR folded down by removing just the locking pin and allowing the lights to swing down. **Use this locking pin to secure the third stage mast to the second stage mast, which will prevent the mast from coming out in the case of an extreme stop.**



Location of mast locking hole

See picture below for LE980LED-T4 unit with lights folded down:



The Beacon LED Tower can be lifted using the circular lift points on the ends of the chassis. The light head assembly should be removed during lifting in order to improve balance and stability.

Beacon LED Tower may also be moved by forklift using the forklift slots on the bottom of the chassis. The light head assembly should be removed if being transported by forklift to improve balance and stability.

During transportation, the Beacon LED Tower should be securely tied down using either the circular lift points or the forklift slots.

Beacon LED Towers should not be transported with fuel inside the cabinet. Generators and fuel tanks should be removed for transport. Users should take all necessary safety precautions to ensure the safe transport of fuel tanks and generators and avoid fuel spills or potential fires.

SECTION D: ELECTRICAL INFORMATION

The LED light heads can run off any power source supplying voltage from 90V – 277V.

The Beacon LED Tower is wired with a 120V, NEMA 5-15P plug. Always observe local electrical codes when supplying power to the Beacon LED Tower. Ensure that you are using the appropriate plugs and cord based on the voltage that you are using.

Each light head uses 200W of energy. At 120V, this means each light head uses 1.67 amps. In total, the LE980LED-T2 uses 3.33 amps, and the LE980LED-T4 uses 6.67 amps.

There is a 15amp NEMA 5-15 outlet on the side of the cabinet for daisy-chaining additional Beacon LED Lights or plugging in tools. Please be sure to observe local electrical codes and not overload any circuits.

SECTION E: AVAILABLE REPLACEMENT PARTS:

Part Number	Description
LE980LED	Light head (one unit)
LE980LED-T-P2	Wheel
LE980LED-T-P3	Winch
LE980LED-T-P4	Light head t-bar
LE980LED-T-P5	Coiled cable (16/4)
LE980LED-T-P9	Auxiliary fuel connector
LE980LED-T-P10	Auxiliary fuel tank (6 gallon / 22.7 litres)
LE980LED-T-P13	Hitch pin (connects light head t-bar to mast)
LE980LED-T-P16	Replacement winch cable