

Title of Training	Portable Light Plant Safety	
Equipment Info.	Make/Type/Size/Model	
Material Needed	Operators Manual-Light Plant for Hands On Training-Open area to perform set up and start-up and shutdown.	PPE: Hard Hat-Safety Glasses-Work Boots-Work Gloves-Hearing Protection

LIGHT PLANT SAFETY

DO NOT ATTEMPT TO SETUP, OPERATE, OR WORK ON THE LIGHT TOWER UNLESS YOU HAVE READ AND STUDIED THIS MANUAL AND THE ENGINE AND GENERATOR MANUALS CAREFULLY. READING THESE MANUALS WILL TEACH YOU HOW TO SAFELY SETUP, OPERATE, AND PROPERLY MAINTAIN THE TOWER AND ITS COMPONENTS.



FUELING

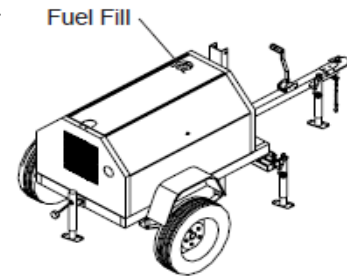
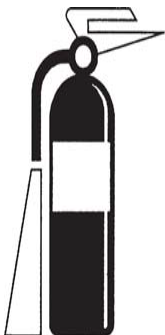


ALWAYS handle fuel with care. It is highly flammable. **ALWAYS** stop engine before refueling. Fill fuel tank outdoors. Be sure the fuel supply has a positive shutoff valve. **DO NOT** replace fuel lines with materials different from those supplied as original equipment.

FIRES CAN CAUSE SEVERE PERSONAL INJURY OR MACHINE DAMAGE.

Prevent fires by keeping the light tower and its surrounding area clean.

- **DO NOT** refuel while smoking or when near open flame or sparks.
- **DO NOT** refuel the engine when it is hot. Allow to cool for several minutes before refueling.
- **DO NOT** spill fuel inside the engine compartment. If fuel has leaked, wipe it up and have leak repaired before next use.
- Have a fire extinguisher nearby. Be sure the extinguisher is properly maintained and be familiar with its use. Extinguishers rated ABC by the NFPA are appropriate for all applications.



Guard Against Electrical Shock

- Equipment produces high voltage electricity (up to 480 volts) that can produce a fatal shock to a person who accidentally places their self in the electrical circuit. Use every precaution to avoid contact with the high voltage electrical circuit.
- Beware of a cut or damaged power cord. Have a qualified electrician replace immediately.
- Take extra precautions when troubleshooting electrical problems. When troubleshooting indicates a malfunction in the high voltage AC system, pass the troubleshooting task on to a qualified and trained electrician.
- Disconnect electrical power and turn off engine before removing protective covers on high voltage enclosures.

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- Understand that the electrical circuits in this light tower complete their paths back to the generator within the equipment.
- The neutral conductor at the generator is bonded to the equipment frame.
- Ground wires within the system are also bonded to the equipment frame.
- Only use a multimeter (or voltmeter) with two well-insulated probes rated for 750 volts each.
- Keep one hand in your pocket when touching the multimeter probe to hot conductors. This will prevent electricity from passing into one hand and out the other, a path that takes the electricity across the heart.
- Always disconnect power from the circuit being measured before connecting test leads to high voltage points.
- Do not try to position both probes at once. Instead, clamp the common insulated alligator clip to a neutral wire and then probe for voltages with the other probe.
- Never clamp to a hot wire since a severe shock could be received by contact with the other probe.
- Inspect the ground cable between the generator set and the frame. If damaged, replace immediately.
- Treat all conductors as potentially hot, especially when troubleshooting malfunctioning equipment. Jewelry should
- be removed before working around live conductors.
- Proceed through the circuitry systematically, operating only one section at a time.
- Use tools with insulated handles when working within the reach of live conductors.
- Maintain a good footing. If you slip, or a tool drops, do not grab for it if live conductors are within reach.
- Concentrate on the task until the danger from high voltage is removed.

OPERATING INSTRUCTIONS

I. MOVE LIGHT TOWER TO DESIRED LOCATION KEEPING THE FOLLOWING IN MIND:

- A. The light tower should not be placed where those working under the light are either:
- 1) Forced to look into the light regularly.
 - 2) Forced to work with their backs to the light (shadows will block the light from the work area).
- B. The area where the tower is positioned should be relatively level.
- C. The light tower should be located on the same level or on ground higher than the area being lighted (higher light) mounting heights reduce the shadow length).
- D. Unit should be level to ensure smooth trouble-free tower telescoping. Tower may not telescope down properly when unit is not level.

II. UNHITCH FROM THE TOWING VEHICLE AS FOLLOWS:

- A. Engage the trailer braking system, especially if trailer is not on level ground. **CAUTION:** If electrical or manual braking system is not supplied, chock the wheels instead.
- B. Swing the tongue jack into position and raise the tongue off the towing vehicle.

III. LEVEL THE TRAILER, USING THE JACKS AS FOLLOWS:

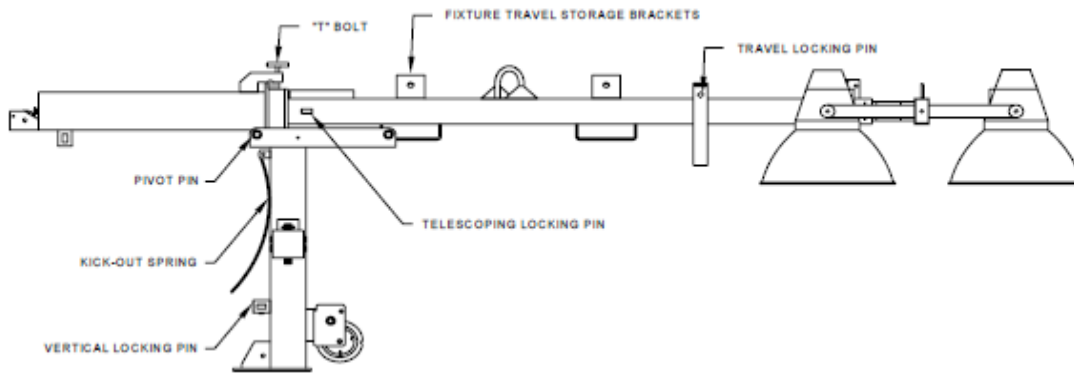
- A. Extend the rear outriggers until the springs lock into place. Swing the jack on each outrigger into vertical position.

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- B. Start at the highest jack position. Rotate the jack handle until the jack foot touches the ground.
- C. Raise the other jacks to level trailer... ..insure that the rear jacks are down to prevent the tower from tipping over backwards when raised.

IV. DRIVE GROUNDING ROD INTO EARTH

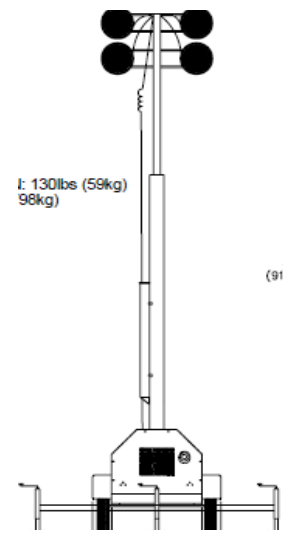


RAISING THE TOWER (refer to drawing above)

- A. Remove the tower travel-locking pin from the cradle at the rear of the cabinet.
- B. Aim the fixture, both horizontally and vertically, to the estimated angles that will light the work area.
- C. Using the winch, raise the tower to the vertical position. The tower-locking pin at the base of the pivot post will lock automatically and you will hear it “snap” into place. Insert manual pin into locking device.
- D. Release the tension on the cable by backing the winch off slightly and pull the telescoping locking pin on the galvanized tower section. Hold this out while turning the winch to raise the tower. After the tower has telescoped slightly, the locking pin can be released. Raise the tower to the desired height.

VI. RAISING THE TOWER (refer to drawing above)

- A. Remove the tower travel-locking pin from the cradle at the rear of the cabinet.
- B. Aim the fixture, both horizontally and vertically, to the estimated angles that will light the work area.
- C. Using the winch, raise the tower to the vertical position. The tower-locking pin at the base of the pivot post will lock automatically and you will hear it “snap” into place. Insert manual pin into locking device.
- D. Release the tension on the cable by backing the winch off slightly and pull the telescoping locking pin on the galvanized tower



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section. Hold this out while turning the winch to raise the tower. After the tower has telescoped slightly, the locking pin can be released. Raise the tower to the desired height.

E.

VII. START THE ENGINE / GENERATOR SET

- A. Ensure the circuit breakers are turned “OFF”. This prevents the engine from starting under load and prevents electrical equipment from being subjected to improper voltage and frequency.
- B. Check the oil, fuel, and coolant (if liquid cooled) levels. If the fuel tank is empty, it may be necessary to bleed the fuel line after filling the tank (see engine instruction book for procedure).
- C. Turn the ignition switch to the “ACC” position (see diagram below). Press the preheat pushbutton for a **maximum of 20 SECONDS**. Do not engage the preheat button longer than the time specified or damage may occur.
- D. Turn the ignition switch to the “START” position to engage the engine. After the engine starts, release the switch so that it returns to the “RUN” position. Let the engine come up to speed and stabilize (review the engine operating procedures in the manufacturers handbook). Note: If engine will not start, leave switch in run position for additional 10-20 seconds to completely prime the fuel system. Then repeat step “C” and start engine.

VIII. TURN ON THE FLOODLIGHTS

- A. Turn the circuit breakers “ON” and check to ensure that all lamps come on. Allow a minimum of two (2) minutes for lamps to reach full luminance.
- B. If required, rotate the tower to aim the lights as desired. Tighten the tower rotating locking bolt.
- C. Adjust the tower vertically and adjust lighting direction of individual fixtures if required.

IX. TURN OFF THE FLOODLIGHTS

- A. If operating, turn light circuit breakers off.
- B. Turn engine switch to “OFF” to shut down the engine.
Do not shut down engine prior to turning lights off.
- A. Allow lamps to cool at least ten (10) minutes before moving the tower to avoid breaking lamps.

Note: This STT does not necessarily cover all possible hazards associated with this equipment and should be used in conjunction with other references (Owner’s Manual & Brieser Safety Manual). It is designed as a guide to be used to compliment training and as a reminder to users prior to equipment use.

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EMPLOYEE NAME (Print or Type)	EMPLOYEE SIGNATURE	TRADE	JOB TITLE
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