

## Instruction Manual

### READ BEFORE USING OR INSTALLING!

Read instructions carefully **before** attempting to install the mast or operate the mast winches. Failure to comply with instructions and guidelines could result in serious or fatal injury, as well as void any warranty. Retain these instructions for future reference.

1. Position the unit in the desired location. Ensure that the unit is **completely level** and then anchor the unit using the mounting holes located toward the base. When picking a location, ensure the mast is free and clear from any overhead obstructions.



2. With the mast folded over, install the light head. Use additional help with heavy equipment.
  - A. The light head is equipped with a T-Handle / Hand screw. Make sure the hand screw is loose enough to allow the head to slide over the top stage of the mast.
  - B. Once fully seated, tighten the hand screw.
  - C. Make electrical connections from mast to light head by connecting the waterproof plug. Ensure it is pushed down all the way enough to twist-lock the plug to complete the connection.



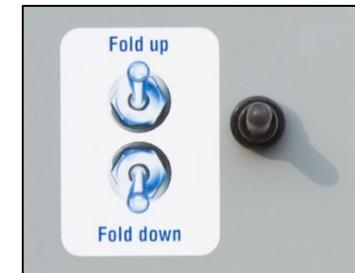
3. Once the light head is installed, attach power to the unit. This light tower runs off 120-240V AC 50/60Hz and is provided with line in cord and cord cap. Run cable to matching receptacle outputting the correct voltage. Double check product nameplate for correct input voltage.
4. The light tower is now ready for deployment. Locate the control box on the side of the unit. The lower right switch controls power to the entire unit. Turn this switch to the up (**Power ON**) position.



5. To fold the mast up to its vertical position:
  - **IMPORTANT!** Remove the mast retaining pin located at the base of the mast. The mast will not fully rotate vertically with this pin in place.



- Make sure the lower left switch is in the **"Fold up"** position.



- Make sure the lower center switch is in the “Lower Winch” position.



- Locate the upper right switch labeled “Run” and “Lower Winch Control”.



- This is a momentary switch that only toggles up. This switch is designed to stop the winch, when you let off of the switch.
- Toggling the momentary switch up, and holding it, the mast will begin to rise from the folded over position.
- Once the mast reaches its vertical position, a sensor will make it stop, and then briefly back off. This is by design, do not be alarmed.

 **WARNING! EXAMINE WINCH CABLE FOR FRAYING EVERY TWO WEEKS AT MINIMUM DURING NORMAL OPERATION.** FAILURE TO COMPLY COULD RESULT IN SERIOUS OR FATAL INJURY TO NEARBY PERSONNEL AND CAUSE DAMAGE TO MAST AND EQUIPMENT. IF CABLE SHOWS SIGNS OF WEAR, CORROSION, OR FRAYING, DISCONTINUE USE IMMEDIATELY UNTIL PARTS ARE REPLACED.



- Re-insert the mast retaining pin. The mast is now ready to extend upwards.

**WARNING!** Ensure the mast retaining pin is in place before extending mast!



**Important!** The winch is designed for intermittent use only. Continuous running in excess of 3 minutes can damage the winch motor. Allow a 20 minute cooling off period before continuing use. Continuous use without a cooling off period will cause overheating and damage the motor.

6. To extend the mast:

- Make sure the lower center switch is in the “Upper Winch” position.



- Locate the provided hand control/pendant switch.



- The hand control plugs into a whip coming out of the bottom of the control box.



- Ensure the hand control is plugged in, to extend the mast.

- Put the hand control in the “out” position

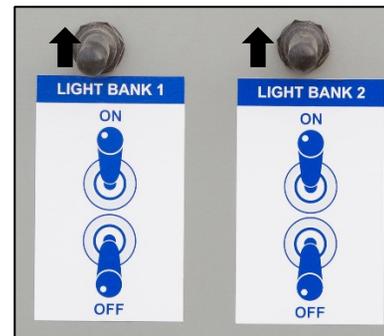


- Press and hold the button that says “run” in order to extend the mast to the desired height. Letting off of the “run” button will stop the mast.
- Once the unit reaches its maximum height it will hit a sensor and retract for 3 seconds. This will prevent the mast from over extending. Let off the “run” button once this happens. At this point, the unit is deployed.



**Important:** The winch is designed for intermittent use only. Continuous running in excess of 3 minutes can damage the winch motor. Allow a 20 minute cooling off period before continuing use. Continuous use without a cooling off period will cause overheating and damage the motor.

Use the two “Light Bank” switches for powering the lights. Each switch controls a set of two lights. Both switches ON will illuminate all four light heads.



## Rotating Mast (if applicable)

The mast can be rotated while lowered or elevated.

1. Loosen single bolt located toward center collar of light mast.
2. Rotate mast to desired angle.
3. Tighten bolt in order to secure mast in place.



**DO NOT ROTATE MAST MORE THAN 90°** to prevent tangling cord around light mast. *Ensure cables are not in the way or tangled when lowering mast!*

7. To retract the mast:
  - Make sure the lower center switch is in the **“Upper Winch”** position.



- Locate the provided hand control/pendant switch.
- The hand control plugs into a whip coming out of the bottom of the control box.
- Once the hand control is plugged in, you are now ready to retract the mast.
- Put the hand control in the **“in”** position.



- Press and hold the button that says **“run”** in order to retract the mast. Letting off of the **“run”** button will stop the mast. Once the mast is all the way down, let off of the **“run”** button.
- Once the cable goes slack, stop immediately. Do not allow the winch to **“free spool”**.

**Important:** The winch is designed for intermittent use only. Continuous running in excess of 3 minutes can damage the winch motor. Allow a 20 minute cooling off period before continuing use. Continuous use without a cooling off period will cause overheating and damage the motor.

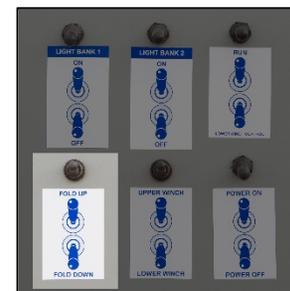
8. To fold the mast down in its horizontal/folded position:

### NEVER FOLD THE MAST OVER WITH IT EXTENDED

- Remove the mast retaining pin located at the bottom of the mast.



- Make sure the lower left switch is in the **“Fold Down”** position.



- Make sure the lower center switch is in the “**Lower Winch**” position.



- Locate the upper right switch labeled “Run” and “Lower Winch Control”.



- This is a momentary switch that only toggles up. This switch is designed to stop the winch, when you let off of the switch.
- Toggling the momentary switch up, and holding it, the mast will begin to fold over from the vertical position.
- Once the mast reaches the horizontal position, let off of the momentary switch. **DO NOT** allow the mast to lay further than a 90 degree angle nor allow the winch to free spool.
- Re-insert the mast retaining pin.



**Important!** The winch is designed for intermittent use only. Continuous running in excess of 3 minutes can damage the winch motor. Allow a 20 minute cooling off period before continuing use. Continuous use without a cooling off period will cause overheating and damage the motor.

9. Using the lower right switch, turn the power to “off”.



10. You may now disconnect the mast from power.

**PUSH OVER MODELS**

Some models of Larson Electronics' masts are so lightweight that they do not have a spring to assist in folding over. These are known as push over models.

Push over models must be manually folded over with and without a headload.

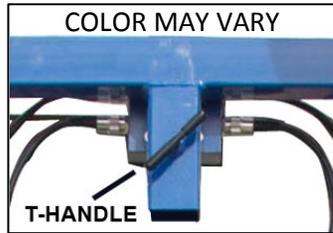
# MAST HEAD INSTALLATION

The light mast ships with the light head / T-head removed to prevent damage during transport. Follow the steps below for installing or removing light head.

1. Locate light head. Color, style, and mounted lights will vary.



2. The light head is equipped with a T-Handle / Hand Screw.



3. Make sure the hand screw is loose, to allow the head to slide over the top stage of the mast.

4. Using a pair of slings, wrap both slings around the light head in between the lights on both sides.



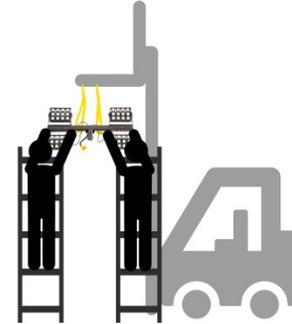
5. Attach the slings to a forklift or other lifting device.



6. With 2 people holding the light head steady, slowly raise the light head above the mast.



7. A ladder will need to be placed on both sides of the mast, in order for 2 people to guide the head in to place.



8. Once the light head is on top of the light mast, tighten the T-Handle to ensure the light head is safely secured to the top of the mast.

9. Make the electrical connections for the lights. Repeat this process in reverse order for removing the light head.



10. Proceed to the **OPERATION MANUAL** for operating the unit.

*Slings are recommended for installing heavy loads and to ensure operator safety. Should other methods be used, Larson Electronics shall not be held responsible for damages or personal injuries.*



**NOTES**



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