LIGHT MAST OPERATION

LM Series Light Mast on Single Axle Trailer
Part# LM-xx-xx-TLR

Follow the steps below for operating the light mast.

EXTEND MAST

1. Position the trailer in the desired location. Ensure that the unit is **completely level**. When picking a location, ensure the mast is free and clear from any overhead obstructions.

PICTURES SHOWN MAY VARY

Towing check list

- Mast is fully retracted and folded over.
- All pins are in place.
- All outriggers are retracted and rotated in a horizontal position.
- Safety chains are attached to tow vehicle.
- Hitch is secure.
- No loose objects are on the trailer.

2. Drop the trailer from tow vehicle. Use the tonge winch to attach/detach from tow hitch. Deploy all outriggers.

3. (If applicable) Attach equipment to mast head. Use appropriate measures for securing attached devices/antennas. Drill thru-holes as necessary. ***Do not exceed weight capacity listed on nameplate!***

4. Install mast head. *See mast head installation steps page 2.*

5. To extend the mast, begin by removing the top retaining pin from the mast holder.

6. Unlatch the cable preventing the mast from extending during transport. (If applicable)

7. Remove the retaining pin from the base of the mast and set aside.

8. Use the lower hand winch to fold the mast upright. Turn this clockwise until there is enough tension keeping the mast in place. You should hear a clicking noise from the hand winch indicating the proper direction.

9. Replace the pin removed in Step 3! This retaining pin will prevent the mast from falling over should the winch cable fail.

10. ***Mast must be level!*** Use a bubble level to level the mast before extending! Adjust outriggers until mast is level on all sides.

11. Use the upper hand winch for extending the mast. Turn winch clockwise until it stops. You should hear a clicking noise from the hand winch indicating the proper direction. **Do not force the winch any further passed its stopping point!**

WARNING: *Ensure the mast retaining pin is installed at the base of the mast before elevating!*

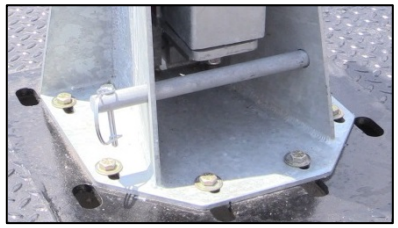
LOWER MAST

1. To lower the mast, rotate the upper winch counter-clockwise. The winch will not click at this point and you should visually see the mast lowering. Stop once there is no more tension on the cable.

2. Remove the retaining pin from the base of the mast and set aside. *This pin must be removed before folding the mast!*

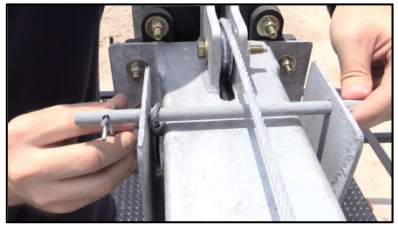
3. Use the lower hand winch to fold the mast down. Rotate the winch counter-clockwise until there is no more tension on the cable and the mast is set in its holder.

4. Replace the retaining pin on the base of the mast removed in **Step 2**.



5. Replace the cable preventing the mast from extending during transport.

6. Replace the top retaining pin of the mast holder.



WARNING: *Ensure mounted equipment does not exceed the capacity listed on the specifications!*

Replace all safety cables and pins before transport!

Be sure there are no loose objects on the trailer before transport!

If applicable, extend outriggers for maintaining stability while the mast is deployed!

ROTATING MAST (If applicable)

The mast can be rotated while lowered or elevated.

1. Loosen bolt(s) located toward center collar of light mast.

2. Rotate mast to desired angle.

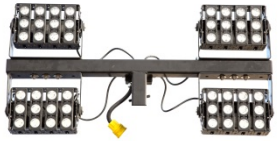
3. Tighten bolt(s) in order to secure mast in place.

When using power cables, minimize full 360° rotation to prevent tangling cord around light mast. *Ensure cables are not in the way or tangled when lowering mast!*

MAST HEAD INSTALLATION

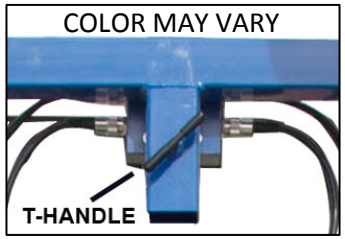
The light mast ships with the light head / T-head removed to prevent damage during transport. Follow the steps below for installing or removing light head.

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.

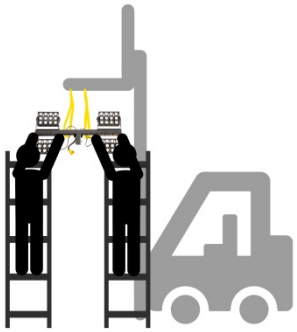


4. Using a pair of slings, wrap both slings around the light head in between the lights on both sides.

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.

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