

## POP-UP MAST INSTALLATION GUIDE

**NOTE:** For all 15' Pop-Up Masts, place the mast straight up onto the support being used. Then complete steps 3 and 4 only.

### 1.0 Attaching the Guy Wires:

- 1.1 Lay the Pop-Up Mast on the ground
- 1.2 For easier access of the guy rings. Extend each section about half a foot. Then tighten the L-bolts to properly secure the sections in place. See Figure 1 for L-bolt.
- 1.3 While still on the ground. Properly secure all the guy wires on each respective guy ring.
  - **Note:** For the safest installation, 3 or 4 guy wires are required for every section spanning 10 feet from the base of the mast. Never alternate between 3 and 4 guy wires on the same Pop-Up Mast.
  - See Figure 2 and Figure 3 for guy wire locations on guy rings
- 1.4 The guide below can be used for suggested guy wire lengths.
  - **Note:** Don't forget to consider the extra length needed when securing the guy wire to the guy ring of the Pop-Up Mast and the anchoring method used on the ground.



Fig 1: L-Bolt

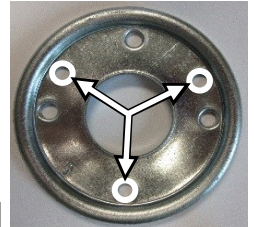


Fig 2: Guy wire locations when using 3 guy



Fig 3: Guy wire locations when using 4 guy wires per guy ring.

**Attention!** Each guy wire needs to be a minimum of 50% longer than the height of the mast section it is guying. Meaning, lowest 3 or 4 guys attached to the lowest 10' section need to be approximately 15' long from guy ring to anchor point. For each respective 10' section, the minimum wire lengths are:

Sections	Guy Wire Lengths From Guy Ring to Anchor Point
2 <sup>nd</sup> 10' Section	30' long each
3 <sup>rd</sup> 10' Section	45' long each
4 <sup>th</sup> 10' Section	60' long each
5 <sup>th</sup> 10' Section	75' long each

**Attention!** Required guy wire angles are between 30 and 45 degrees off vertical.

- 1.5 Retract each section back to where they were originally.
- 1.6 Tighten the L-bolts to prevent anything from moving involuntarily.
- 1.7 Attaching the guy wires is now complete.

### 2.0 Lifting the Mast into Place:

- 2.1 Lift the entire assembly up and place the 1<sup>st</sup> section (Largest diameter poll) over the base support being used.
- 2.2 Anchor in the first set of guy wires attached to the lowest guy ring.
  - **Note:** Make sure to follow the required guy wire angles mentioned above.
- 2.3 Once all guy wires from the lowest guy ring are connected to there anchors. Tension the guy wires, making sure that each wire is properly tightened and the mast is vertical.

### 3.0 Attaching the Antenna:

- 3.1 Slide the top most mast section out a few feet.
- 3.2 Securely attach your antenna to this mast section.

### 4.0 Fully Extending the Pop-Up Mast:

- 4.1 Slip the top most mast section out as far as possible.
- 4.2 Slide the bolt provided, through the set of holes positioned five inches below the L-Bolt. See Figure 4.
- 4.3 Lower the extend mast section down until it rests on the bolt.
- 4.4 Properly Tighten the nut onto the bolt.
  - **Note:** Do not over tighten the bolt and nut, to the point where the tube starts to compress.
- 4.5 The extended mast section is resting on the bolt correctly if:
  - a) It can no longer retract further, and
  - b) You are unable to rotate it more then 180 degrees.
    - **Note:** If the extended mast section is free to rotate. Continue to rotate it slowly into it drops down slightly and locks itself.
- 4.6 Tighten the L-bolt. This then completes the extension of the top most mast section.
- 4.7 Repeat section 4.0 until the full Pop-Up Mast is extended. Making sure to always extend the top most mast section first.

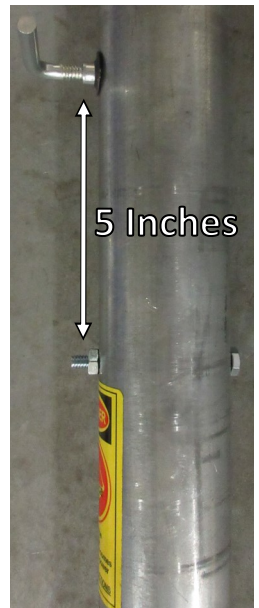


Fig 4: Bolt and Nut Location

### 5.0 Securing the Pop-Up Mast:

- 5.1 Like before, anchor each set of guy wires one at a time. Working from the lowest section first to the top most section.
- 5.2 Properly tighten each set before moving on to the next highest set.
- 5.3 Once all guy wires are securely fastened at both ends, the Pop-Up Mast installation is complete.