



**PFC**  
**Push Up Mast**  
**Operating Instructions**

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## GENERAL INFORMATION

The PFC Telescopic masts are considered to be temporary structures and should not be expected to withstand all weather conditions indefinitely.

Mast head and Nato spigots are available for the masts, for interfacing between mast and Antenna.

Alternatively U-bolts and clamps can be used to fasten antennas directly to the top section of the mast, **DO NOT** over-tighten as this can damage the tube.

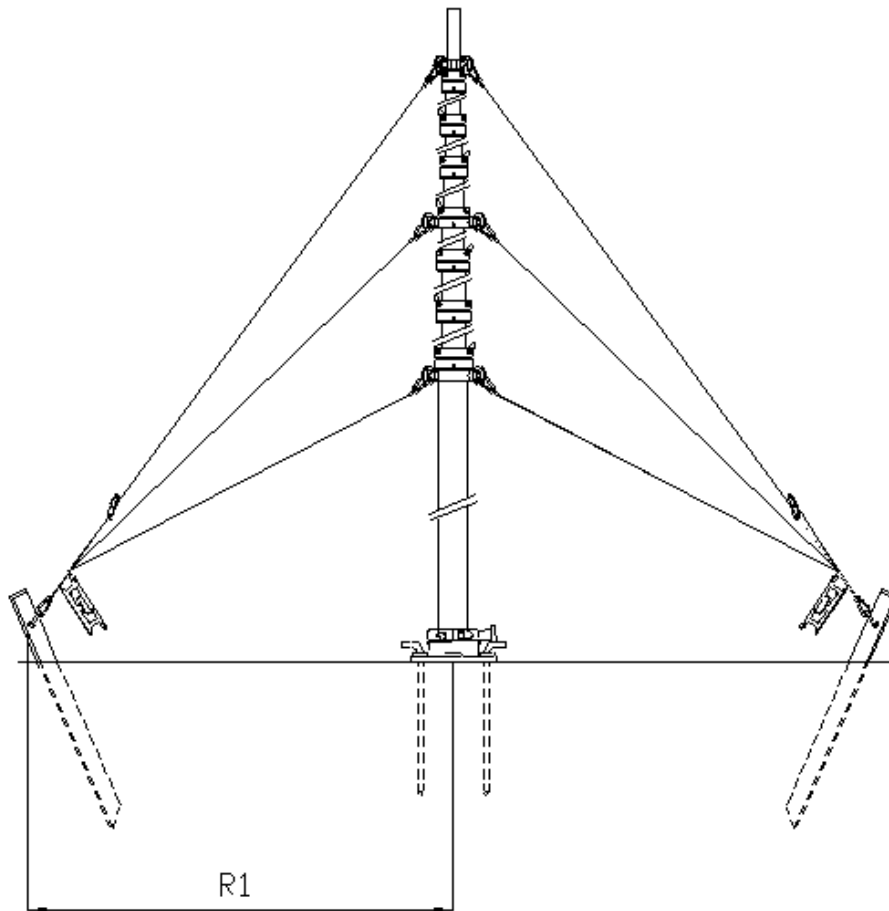
## Loading Steps – Wind Speeds – Guy RADII For PFC Masts

Mast	Vertical headload	Headload Surface Area Max	Maximum wind speed with top guys	R1
	<i>kgs</i>	<i>Sq. cms</i>	<i>kph</i>	<i>metres</i>
PFC7	10	1400	160	3.5
PFC9	7.5	1400	160	4.5
PFC12	5	1400	160	6.0

The above table shows the vertical headload each mast will support and the maximum operational wind speed.

See Fig.1 The general layout for the three way guys & radii they should be set at.

**Fig. 1**



## **SAFETY**

At all times be aware of overhead obstructions **ESPECIALLY POWER LINES (fatal accidents can be caused)**.

When erecting a mast, watch particularly for snagging guys and cables.

## **INSTALLATION**

### **Base Guy Assembly**

This arrangement is generally the easiest method of erecting a mast on open ground. The kit is complete with mast fittings, 3 guys, adjusters, base plate (optional pivot version), ground stakes and pegs.

The standard base plate incorporates a Teflon disk to permit rotation of mast and a thumbscrew for locking in any azimuth direction.

Guy kits have polyester ropes with adjusters.

It should be remembered that guys transmit considerable downward thrust on a mast and should only be sufficiently tightened to restrain movement. When setting up mast on open ground, the ground stakes should be set at a radius R1 as shown in table and Fig.1 on page 2.

## DEPLOYMENT STEPS

1. Using the four ground pegs that are supplied, peg the mast base into a firm ground surface.
2. Referring to the table on page 2 set out the guy radius according to which mast you have.
3. Push the stakes into the ground at a 60 - 45 degree angle. See Fig.2
4. Using the base guy rope assembly attach one end of the rope to the stake, once all three guys are attached to the stakes position the mast into the base plate and attach the base guys.
5. It is important that you tension the guy ropes sufficiently ensuring that the mast can self dependently stand vertically on its own. See Fig.2
6. Attach the mid and top guy ropes to the mast first, and then onto the stakes.

Ensuring that the above stages were completed correctly, the mast is now ready to be raised.

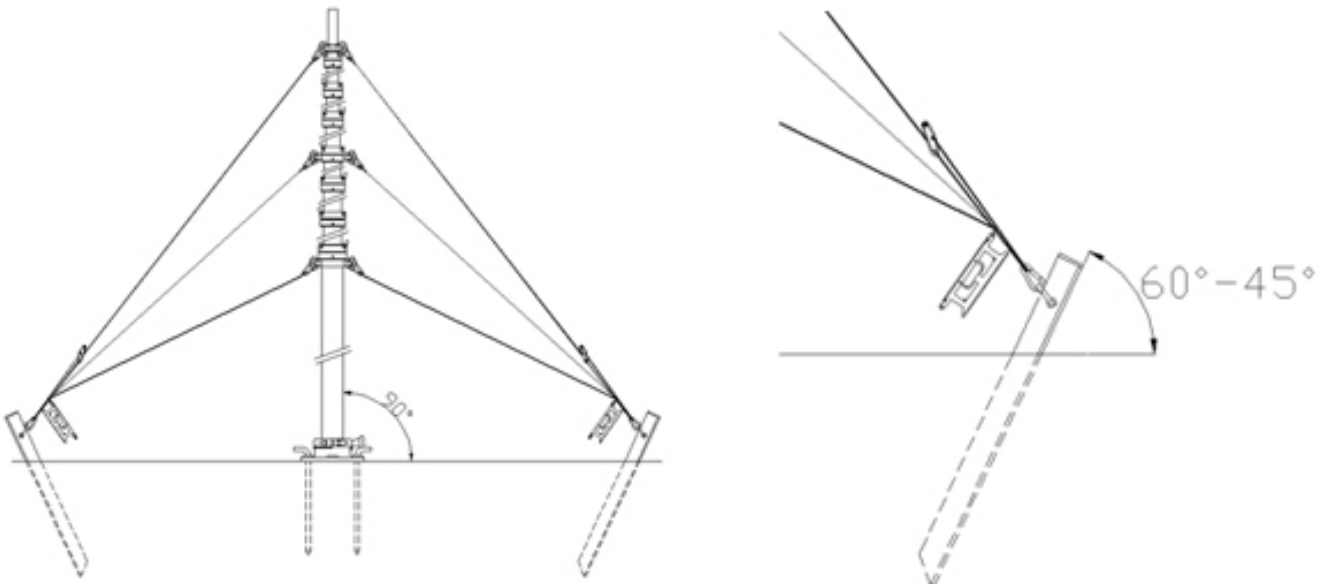


Fig.2

## OPERATING INSTRUCTIONS

Operation of the mast to commence only when mast is secure in fixings i.e. Base plate and guys, Side mounting brackets.

- (1) All locking collars, with the exception of the top one, should be securely tightened by turning the thumbscrew in a clockwise direction. The locking collars are situated immediately above the guide plates at the top of each section.
- (2) Raise the top section manually. When the top section is fully extended the locking collar should be securely clamped with the thumbscrew. The next lower collar should then be raised and that section raised and clamped and so on, until the mast is fully extended.
- (3) To lower the mast, unclamp the lowest collar. As each section of the mast descends it will bring down the next collar for release and so on, until the mast is fully retracted. The rate of descent cannot be increased.

**Note: when lowering the mast take care to keep hands clear of collars and locking knobs.**

**Note:** The locking collars are adjusted during assembly. However, if any locking collar is not clamping the section securely when fully tightened, it should be released and the socket screw or thumbscrews adjusted until the clamping action is sufficient. As a guide the gap on each side of the locking collar should be equal when the locking collar has been tightened. If one side is closed too much, the mast section may not release properly.

## User Notes



## User Notes



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