F1230A II



OPERATION INSTRUCTIONS

Description

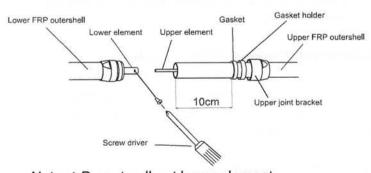
- Newly developed Liner Phase Shifter technology being employed on F1230A II permits the antenna to achieve high performance, high power rating, low VSWR, and broader band coverage on 23cm bands.
- 2. Newly developed direct element joint structure with two interconnected FRP outershells being employed in F1230A II enables the antenna to maintain the same strength as one with one piece structure by its overlapping FRP outershells. Perfect waterproof being achieved by ring gasket enables the antenna to maintain their performance without awaring rainy weather. And the antenna can be easily assembled or disassembled when it Is required, by tightening or loosening 'the joint bracket accordingly.
- 3. Professional quality maximum wind resistance is achieved by their rugged structure. And superior waterproof structure avoids awaring for unstable vswrbeing caused by climatic effects. Rust and corrosion free structure, again, permits the antennas to be installed at seaside or contaminated air environment without any precautions.
- DC ground structure, which escapes high voltage caused by thunder lightning to the ground, protects your radio equipments.

Adjustment

The F1230A II is completely adjustment free. If VSWR of an antenna is extraordinary high, see if each connecting part is well contacted. It is most likely due to bad contact in coaxial cable and/or connector connection, or soldering problem. Be sure to use 50ohms coaxial cable to feed the antenna.

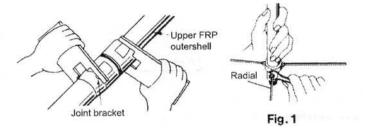
Assembling

1. Connect upper and lower elements

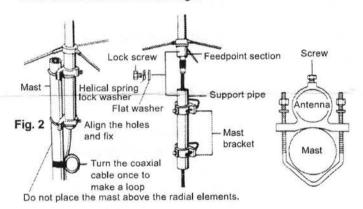


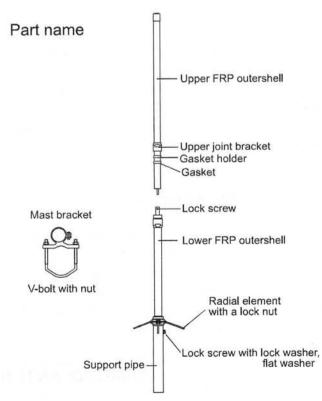
Note ; Do not pull out lower element.

2. Fasten upper outershell joint bracket with a wrench by holding lower outershell joint bracket firmly with a wrench at the same time. For perfect waterproof, fasten the brackets until there is no gap between them.

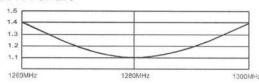


- 3. Attach three radial elements as shown in Fig.1
- 4. Attach two mast brackets to the support pipe. Then connect a coaxial cable to the feedpoint section through the support pipe. By aligning the holes at the bottom of the feedpoint section and upper part of the pipe, fasten the pipe with a lock screw.
- Attach assembled antenna on mast by whole balance into account as shown in Fig.2





V.SWR chart



Specifications

Frequency

: 1260~1300 MHz

Gain

: 13.8 dBi

Impedance

: 50 ohms

VSWR

: Less than 1.5 : 1

Max. power rating

: 100 W

Max. wind resistance

: 40 m/sec

Mast diameter accepted

: 30~62 mm (11.8~24.4")

Length

: 3.53 m (139")

Weight

: 1.7 kg (3.74lbs.)

Connector

: N female

Туре

: 5/8 wave fourteen element

collinear antenna

FOR YOUR SAFETY

Read the following safety precautions before start assembling the antenna.

- ·Assemble the antenna on the ground or wide and flat place such as on balcony before installation.
- •Do not assemble or install the antenna on a place where you can not have enough distance from any electric power lines.
- ·Do not install the antenna on a rainy or windy day.
- •Do not attempt to install the antenna only by yourself. Installing the antenna alone on the roof may lead you dangerous accident. Always ask your friends for help installing the antenna.
- •Do not use iron or aluminum ladder at a reachable distance from any electric power lines.
- · Do not install the antenna on a mast which is not grounded properly.
- Do not have your family members or friends touch or come close to the antenna, unless they have realized its potential danger.

TO AVOID FATAL ACCIDENT

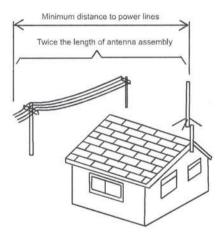
- •Do not attempt to sustain the antenna, or any part of support structure if it begins to fall down. Let it fall by itself.
- •Do not attempt to remove or restore the antenna or any part of support structure if it touches a electric power line by chance. Let it be as it is, do not touch it, and call your local electric power company immediately.

IN CASE OF AN ACCIDENT

- •Do not touch a person or an animal who is or seems to be in contact with the antenna or any support structure which is fallen on a live electric power line. Touching one may lead you to be electrocuted.
- •Do not attempt to separate a person or an animal who is or seems to be in contact with the antenna or any support structure which is fallen on a live electric power line by yourself. Call or have someone call a police officer, ambulance, doctor immediately.

ANTENNA INSTALLATION PRECAUTIONS

To determine antenna installation location, there are several factors to be taken into account. First thing is antenna propagation direction to specific target stations. As to whether there is any obstacles such as tall buildings on the line of sight. Next is specific installation location. As to whether specific location is adequate in terms of antenna support and surrounding safety.



- •Do not attempt to install the antenna by yourself if you do not have any experience in installing base station antenna. Ask your experienced friends or professional for help.
- •Do not attempt to install the antenna at a location where does not have enough distance from nearby electric power lines. it is advised to install the antenna at least twice of total antenna height from nearby electric power lines.
- •Do not install the antenna on any type of tower, pole or telescopic mast which exceeds 30 feet high, if you do not have enough experience in installing the antenna on that kind of location. Ask your experienced friends or professional for help.
- •Do not use more than 1/10' section if you install the antenna on iron plumber's pipe. Attach guy wire if multiple pipes are used to install the antenna.