

DIAMOND ANTENNA

MAY1000 120-500 MHz Wide Band Portable Beam Antenna Operation Instructions

To use this antenna properly, read these instructions thoroughly before using the antenna. Keep this manual at hand for later use. This antenna is designed for amateur radio communications use only. Do not transmit out of specified bands.

• Note for Using the Antenna

To avoid accidents, read the following notices:

1. Do not touch the antenna during transmission.
2. Adjust the antenna on operating frequency before using. Using an unadjusted antenna may cause damage to the radio. You may not have the desired gain during receiving if you don't adjust the elements for the proper frequency.
3. Strong impact on elements can cause them to break.

• Description

1. MAY1000, Wide Band Portable Beam Antenna, is designed to provide optimum performance over wide frequency range by adjusting element length and spaces between elements (120-500MHz).
2. Elements are made of stainless steel that's hard to break.

• Specifications

| | |
|-------------------------|-----------------|
| Frequency: | 120-500MHz |
| Gain: | 4.5-6.0dBi |
| Impedance: | 50Ω |
| VSWR: | Less than 1.5:1 |
| Max Power Rating: | 10W (FM) |
| Connector: | BNC |
| Cable Length: | 39" |
| Length: | 20.5" |
| Weight: | 1 lb. |
| Element Length: | 11.4"-51.5" |
| Space Between Elements: | 4.75"-13.75" |

• Use and Adjustment

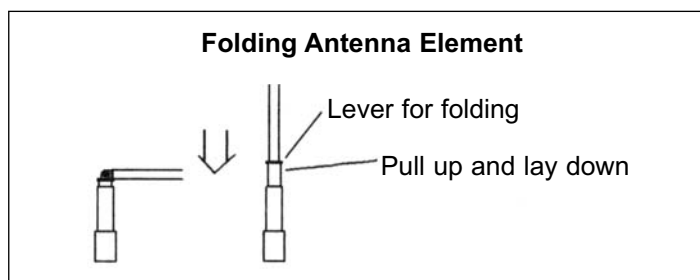
1. Referring to the Frequency Adjustment Chart, confirm the element length and space depending on the desired frequency.
2. Adjust the elements following the Frequency Adjustment Chart. Fix the R Element as two elements are parallel when looking at the antenna straight.
3. Connect the receiver or radio with the feed line.
4. Adjust the elements to have a good reception for receiving by changing the antenna dimensions. Use the antenna vertically or horizontally, depending on radio waves received (vertical polarization / horizontal polarization).

**Receiving reception will totally be changed horizontally or vertically.

• How to Fold the Elements

Push the lever on 5mm to the arrow and hold the bottom of the element and fold it slowly. Elements could be folded omnidirectionally.

When you want to make the element straight, hold the bottom of the element and return it naturally.



• Parts List

