

MODEL **UHV-4**

US model

Instruction Manual

For: 28MHz, 50MHz, 146MHz & 446MHz

Thank you for purchasing our products.

For your safety :

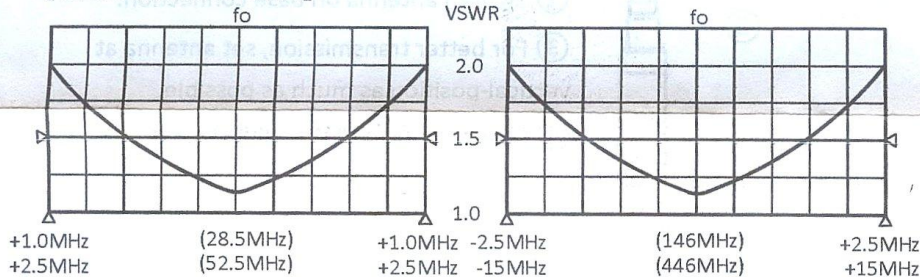
Read this manual carefully for proper handling and operation before using.
Keep this manual in a safe place for future reference.

【Features】

- 1/4λ Base loading type, multi-band HF Antenna.
- Designed to be widely adjustable, simple and compact.

【Specifications】

- Frequency : 28/50MHz (Quarter wave), 146MHz (Half wave), 446MHz (5λ/8 x2)
- Gain : 2.15dBi (28/50/146MHz) , 5.5dBi (446MHz)
- Max. Power : 120W SSB (28MHz) , 200W SSB (50/146/446MHz)
- Impedance : 50Ω
- VSWR : 1.5 or less
- Connector : PL-259 (M-P)
- Max. Length : 1.34m
- Weight : 610g

【VSWR Reference Data】

28MHz
Tuning Point

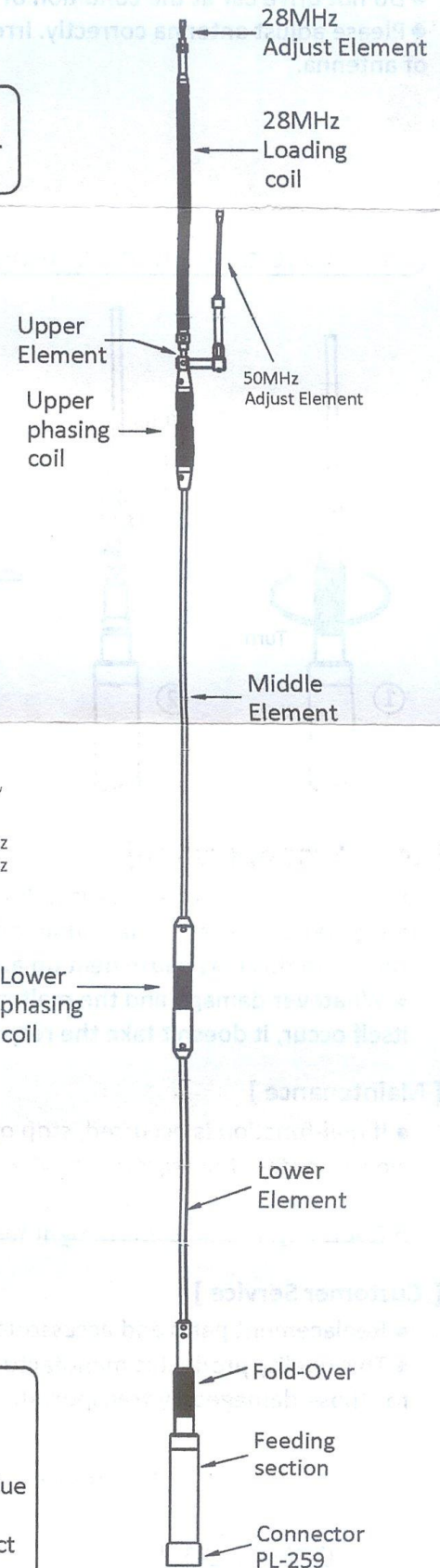
Change the length and adjust the frequency

50MHz
Tuning Point

Frequency change
per 1cm:
28MHz : Aprrox. 800 kHz/cm
50MHz : Aprrox. 200 kHz/cm

⚠ PRECAUTIONS for mounting

- Check if the connecting cable fits into the antenna connector. If they don't match, it could cause damages or disconnection.
- While driving, the antenna could fall down and SWR could be higher due to the lack of ground contact area.
- Placing any other antennas or electrical conductors nearby this product could make SWR higher or fluctuate resonance frequency.



[Note & Remarks on handling and driving]

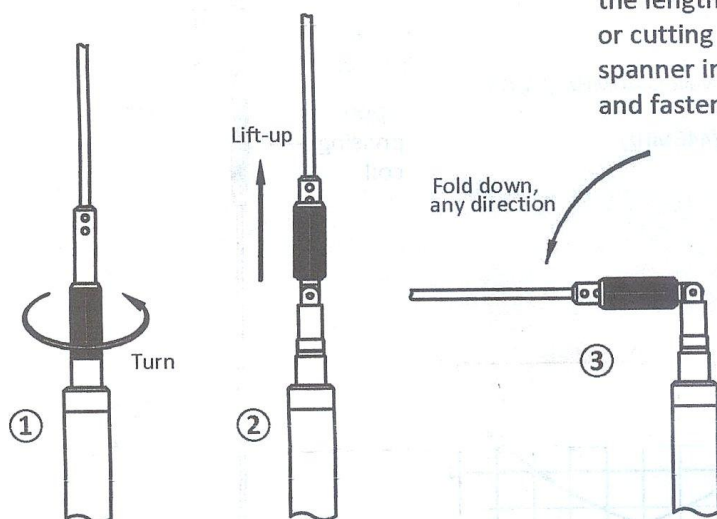
- ◆ Pay special attention not to stick eyes and body while dismantling of antenna or fold over/down of element.
- ◆ Do not touch antenna while transmitting as it become hot enough to burn your fingers.
- ◆ Please confirm tight fastening of connector and set screws of antenna. Loosening and falling off will lead to personal injury and property damage.
- ◆ Do not drive car at the condition of loosened Fold-Over or fold-down of element.
- ◆ Please adjust antenna correctly. Irregular VSWR will lead to heat-up, break-down or power-down of antenna.

[How to adjust antenna]

① 146MHz and 446MHz can be used without adjustment.

② Frequency control can be done by adjusting the length of each Adjust Elements, extending or cutting little by little. Please use standard spanner involved in the package for unfastening and fastening of fix screw of element.

How to fold-down the antenna



[How to use]

- ① Please confirm tight fastening of each set screws by using standard spanner.
- ② Tighten antenna on base connection.
- ③ For better transmission, set antenna at vertical-position as much as possible.
- ④ Please confirm VSWR while transmitting.

[Note & for operation]

- This antenna is for amateur radio operator, Do not use other than for the purpose of antenna.
- Please use this antenna within the standard and specifications described in this manual. Failure to this may cause heat up and break down of the unit.
- Whatever damage and the malfunction which is due to the repair and the reorganization at end-user itself occur, it doesn't take the responsibility.

[Maintenance]

- If mal-function is occurred, stop operation and try to find the reason. If it is not settled, please contact the store/shop where you purchased the antenna or our Engineering Department.
- Before driving start, please check the VSWR is in correct position.
- Routinely, please confirm tight fastening of each Set Screws.

[Customer Service]

- Replacement parts and accessories are available at our dealer and our factory.
- This quality product is manufactured under strict quality control. Please contact the store/shop for those damaged by transportation.

■ Specifications or appearance is subject to change without notice.

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UHV-4

Assembly manual

Before use

- The antenna is divided and packed because this product is a shortened package.
- Start installation and operation after connecting all using the attached hex wrench.

⚠ Cautions when assembling

- ◆ This product is divided into two parts of the arrow in the external view shown on the right, and when assembled, it becomes as shown on the right. From this condition, adjust the tip element length according to the frequency band you want to use.

For details, refer to the separate instruction manual.

- There is no specification of the top and bottom of the middle element.
- Since the hollow set screw at the dividing point is in two directions, insert the middle element until it abuts the back of the bracket, and tighten both together firmly.
- After tightening the hollow set screw with the included hex wrench, make sure that the connection is not pulled out or that there is no looseness.

Note : The hollow set screw size to fix the element is all "M4 × 3". Be careful not to lose it because it is small.

⚠ maintenance

- Please check regularly that the screw is not loose.
- If there is a part with insufficient strength, be sure to replace it before using it.

