

HF~50MHz 10 Band Mobile Antenna

MODEL **CHF-10**

Instruction Manual

For : 3.5/3.8/7/10/14/18/21/24/28/50MHz

Thank you for purchasing our products.

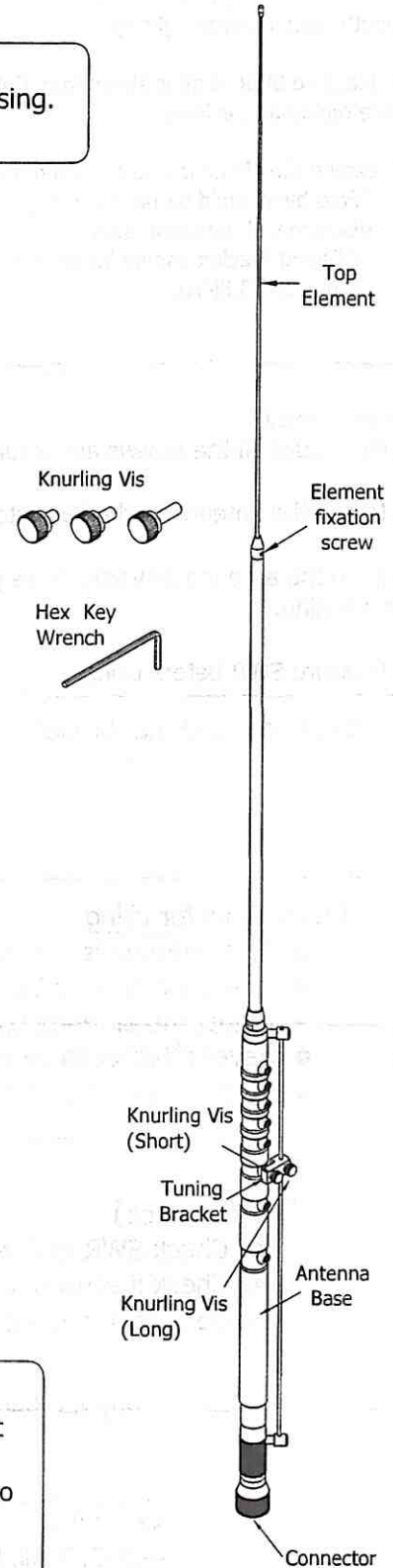
For your safety :
 Read this manual carefully for proper handling and operation before using.
 Keep this manual in a safe place for future reference.

【Features】

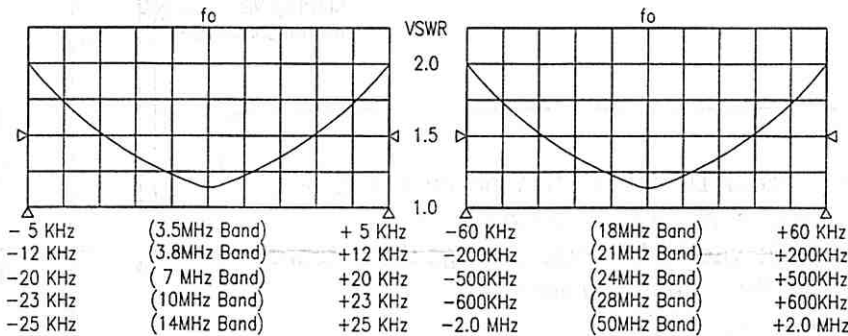
- 1/4λ Base loading type, multi-band HF Antenna.
- Designed to be widely adjustable, simple and compact.

【Specification】

- TX Frequency : 3.5/3.8/7/10/14/18/21/24/28/50MHz
- Max. Power : 200W J3E/SSB
- Impedance : 50Ω
- VSWR : 1.5 or less
- Connector : PL-259 (M-P)
- Max. Length : 1.88m
- Weight : 830g



【VSWR Data】



3.5MHz : Approx. 5 KHz/cm	18MHz : Approx. 50 KHz/cm
3.8MHz : Approx. 6 KHz/cm	21MHz : Approx. 80 KHz/cm
7.0MHz : Approx. 10 KHz/cm	24MHz : Approx. 100 KHz/cm
10MHz : Approx. 12 KHz/cm	28MHz : Approx. 110 KHz/cm
14MHz : Approx. 30 KHz/cm	50MHz : Approx. 120 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.

【Appearance】

【How to Adjust】

1. Make sure to choose the right terminal, according to the right fig.
2. Slide the Tuning Bracket to the designated terminal.
3. Adjust the length of the element to the designated length, shown in the right fig.
4. Measure SWR at operational freq. Cut the element in case tuning freq is lower.
5. Extend the element in case tuning freq is higher.
*Freq band could be narrower depending on the distance with a human body.
**Tuning Bracket should be fixed at Terminal 0 when used at 3.5/3.8MHz.

【How to use】

1. Make sure all the screws are securely tightened.
2. Mount the antenna to the base etc.
3. Keep the antenna as vertically as you can for better transmitting.
4. Measure SWR before using.

*Each freq band shall be clearly marked on the element.

⚠ Precautions for using

- This antenna is only for ham radio. Do not use this for other purposes.
- Operation outside the specification might damage the antenna.
- Adjust the antenna correctly. Elevated SWR could damage the antenna.
- Never attempt to modify or fix the antenna by yourself.
- Do not touch the antenna while transmitting.

【Maintenance】

- Check SWR before using to confirm if the antenna works normally.
- Check if screws, bolts and nuts are tightened securely, and if not, retighten them.
- Be sure to change the parts, deformed by long-term use or low in intensity.

Specifications or appearance is subject to change without notice.

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Standard Length L

3.5 MHz : 1185 mm	18 MHz: 1030 mm
3.8 MHz : 905 mm	21 MHz: 1365 mm
7 MHz: 945 mm	24 MHz: 900 mm
10 MHz: 950 mm	28.5 MHz: 1020 mm
14MHz: 1050 mm	51 MHz: 1128 mm

