

HFV40

Operation Instructions

To use this antenna properly, read this instruction thoroughly before using it. Keep this manual carefully at hand for later use.

Usage

HFV40 is for amateur radio transmission. License of amateur radio is required for operation.

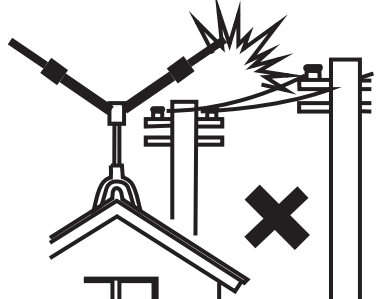
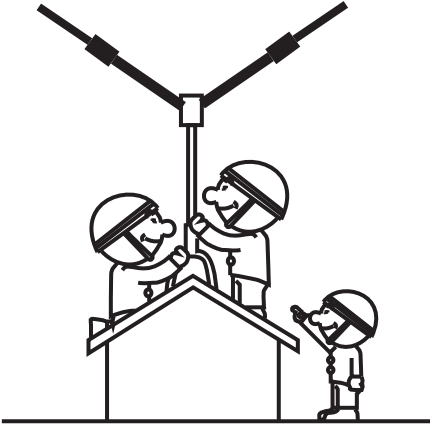
CAUTION

«When installing the antenna»

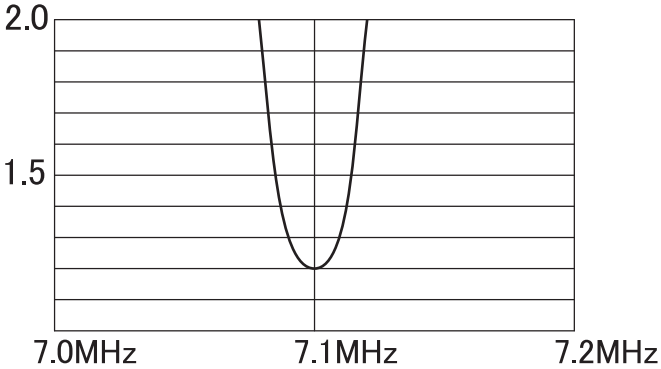
- ① Do not install on a rainy or windy day since it is dangerous.
- ② Do not attempt to install the antenna only by yourself. Installing the antenna alone on the roof may lead yourself into dangerous accident. Always ask for assistance when installing the antenna.
- ③ Be careful not to drop the antenna, tools and attachments during installing on high location. Assemble the antenna on ground before installing.

«Where to install the antenna»

- ① When installing on roof top, to use the antenna in maximum performance, check whether there is any obstacle like electric wire or TV antenna. If the antenna is installed near a building, it may cause bad effect for electrical characteristics of the antenna.
- ② Do not install the antenna where is easily reachable by people.
- ③ When rotating the antenna by motor, check if there is any obstacle in the radius. It is very dangerous if it touches electric wire.
- ④ Install the antenna firmly so it will not fall due to the strong wind. Install the antenna at safe place where people and building are not inflicted injuries even if the antenna falls down.



VSWR chart



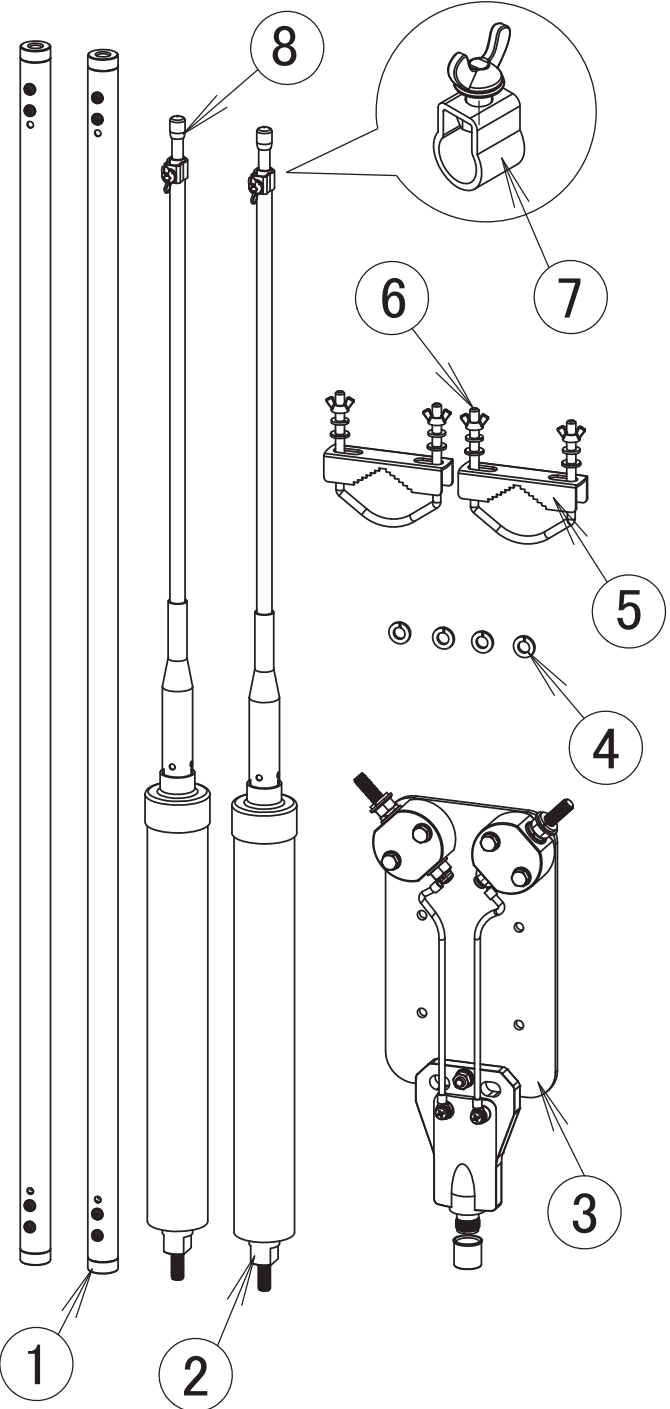
Parts Description

Number	Parts Name	Parts Number
①	Main Element (x1pc)	K72001
②	Set Coil (x1pc)	K72002
③	Feed Point Connector (x1set)	K72003
④	M8 Washer (x4pcs)	K72004
⑤	Bracket	K72005
⑥	V Volt set	K72006
⑦	Radial Element Fastener Ring	K72007
⑧	Adjustment element (1pc with cap)	K72008

Specifications

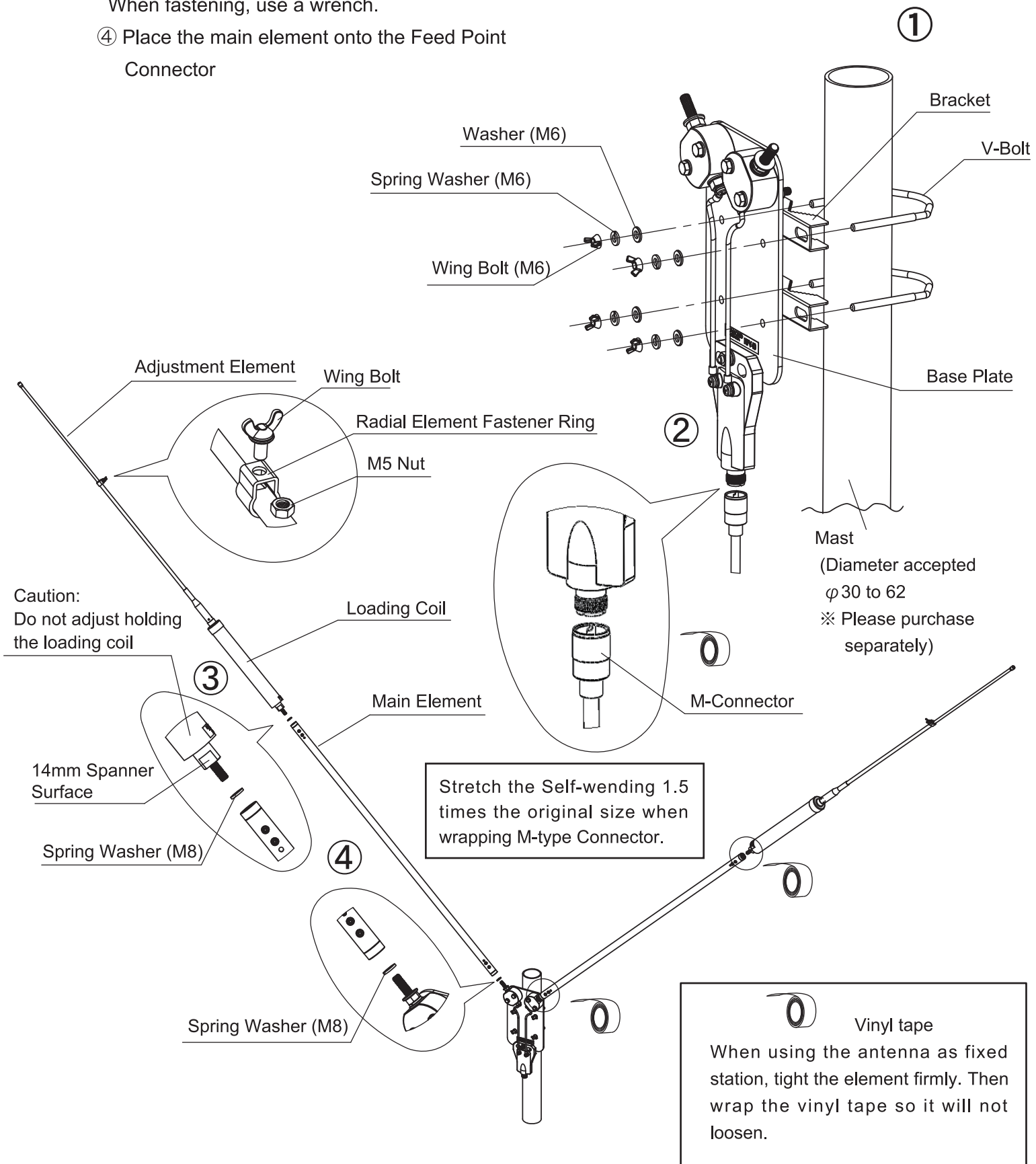
- Frequency / 7MHz (40m)
- Max. power rating / 200W (SSB) 70W (CW)
- VSWR / less than 1.5 (at resonant frequency)
- Adjustable frequency / 7.0 to 7.2MHz
- Impedance / 50Ω
- Mast diameter accepted / φ30 to 62
- Connector / M-J
- Length / Approx. 4.6m (Max)
- Turning-radius / Approx. 1.65m (Max)
- Weight / 2.3kg
- Rated wind velocity / 35m/sec.
- Type / V-type dipole

- Though these products purchased are manufactured under strict quality control, if damage is caused by transporting, ask your dealer promptly.
- Design and specification of these products will be changed for future improvement without advance notice.



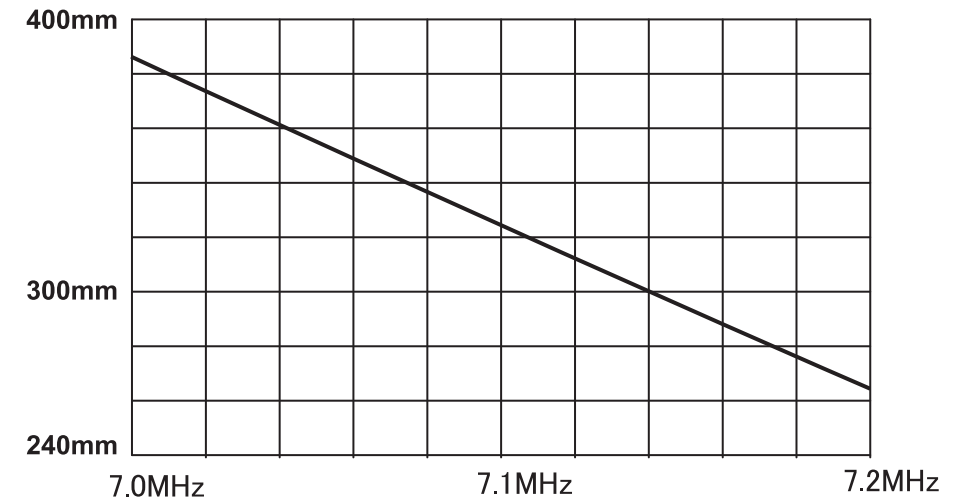
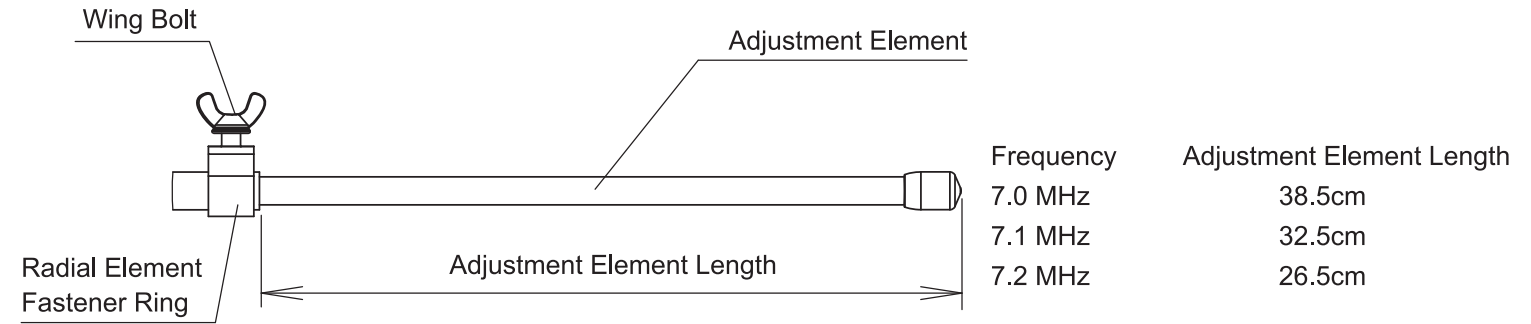
«How to assemble»

- ① Attach the Feed Point Connector on the mast.
 - ② Connect the coaxial cable.
 - ③ Place the loading coil onto the main element.
- *Caution: Do not fasten holding the loading coil.
When fastening, use a wrench.
- ④ Place the main element onto the Feed Point Connector



«How to adjust»

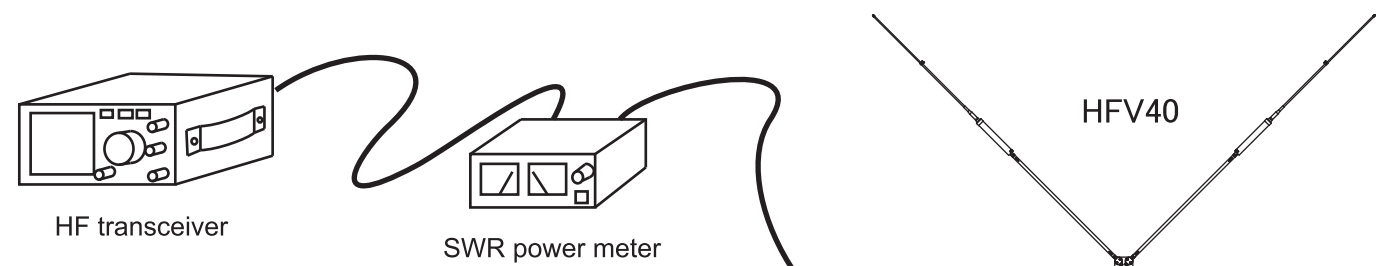
- ① Frequency can be adjusted by changing the length of the adjustment element.
- *element on both side should be the same length
- ② Fasten the wing Bolt.



Caution: frequency could change depending on the surrounding.

Relationship between length of element and frequency
Longer element: lower frequency
Shorter element: higher frequency

How to measure using SWR power meter



How to measure using antenna analyzer

