

0202250 – Vertical Broadband HF Antenna

Instruction and Assembly Manual

Thank you for purchasing the 0202250 Broadband HF antenna. For your safety and to get the best possible results, we recommend that you read this manual to fully familiarize yourself with the antenna. Please keep this manual in a safe place for your future reference.

Features

- Ultra wide-band coverage.
- Thick base element (2mm) for heavy operation.
- Stainless steel bolt and nuts for longer life.

Before assembly

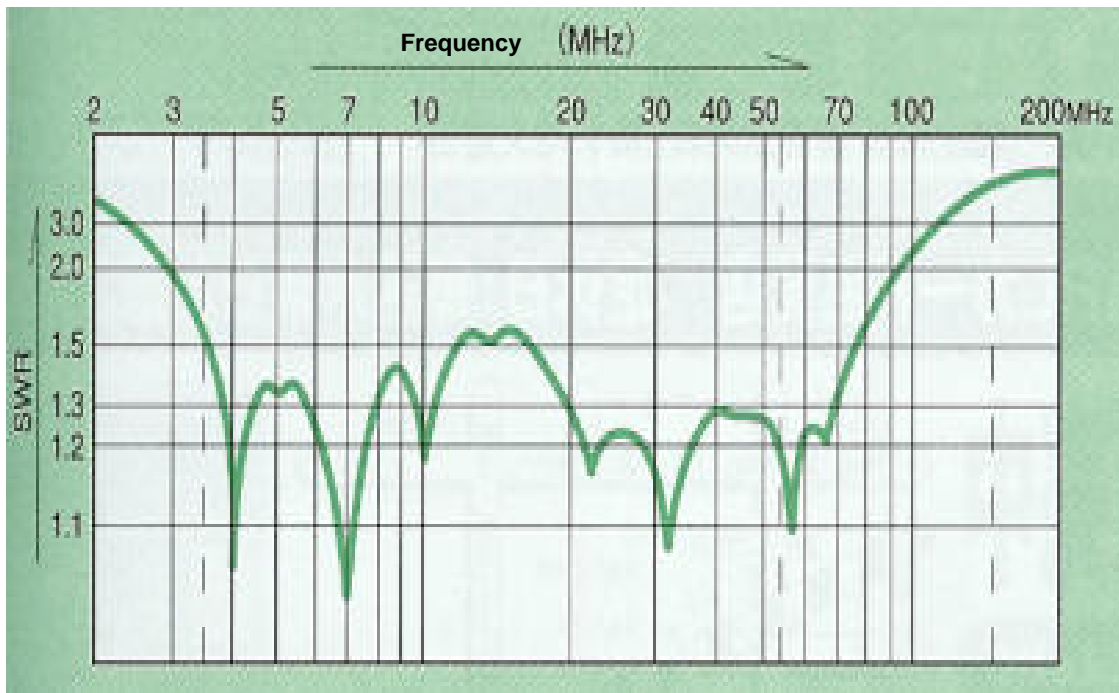
Please make sure all parts are enclosed in box as listed below:

No.	Description	Qty
1	Matching section assembly	1
2	Worm cramp for Aluminium element (1)	1
3	Aluminium element (2)	1
4	Aluminium element (3)	1
5	Aluminium element (4)	1
6	Aluminium element (5)	1
7	U bolt (w/lock washer, nut)	2
8	Tapping screw (M5 x 8)	3
9	Tapping screw (M4 x 8)	2
10	Hex wrench	1
11	Self adhesive tape (20cm)	1

Specifications

Feature	Description
Type	Ground plane antenna
Frequency: Transmit Receive	3.5 ~ 57 MHz 2.0 ~ 90 MHz
Max. Power	250 Watts (SSB)
Impedance	50Ω
VSWR	<1.5:1 (Typical)
Connector	SO-239
Max. Length	7.13m
Weight	3.2Kg
Wind survival	108 km/h
Mast size range	2.8 ~ 5.4 cm

VHWR



Warning

- Before you install your antenna, select the most available open site away from electric power lines and telephone lines. To get the maximum performance from your antenna, it must be installed at least 10.67m above the ground.
- This antenna has a long element and is heavy to carry or install by single person. Therefore you must find assistance before installation. Doing so will prevent you from any severe injuries or death.

Note & Remarks on handling and driving

- Never touch or adjust the antenna while transmitting, which may cause severe injuries including burn.
- When lightning is observed, stop operating the antenna. Don't touch coaxial cable.
- Please make sure tight fastening of connectors and screws, etc. Loosening and falling off may lead to personal injury and property damage.
- Adjust antenna correctly. Irregular VSWR will lead to heat-up, bread-down or power down of the antenna.

Note for Operation

- This antenna is designed for amateur radio and Broad Band receipt operator. Do not use other than for the purpose of the antenna.
- 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.

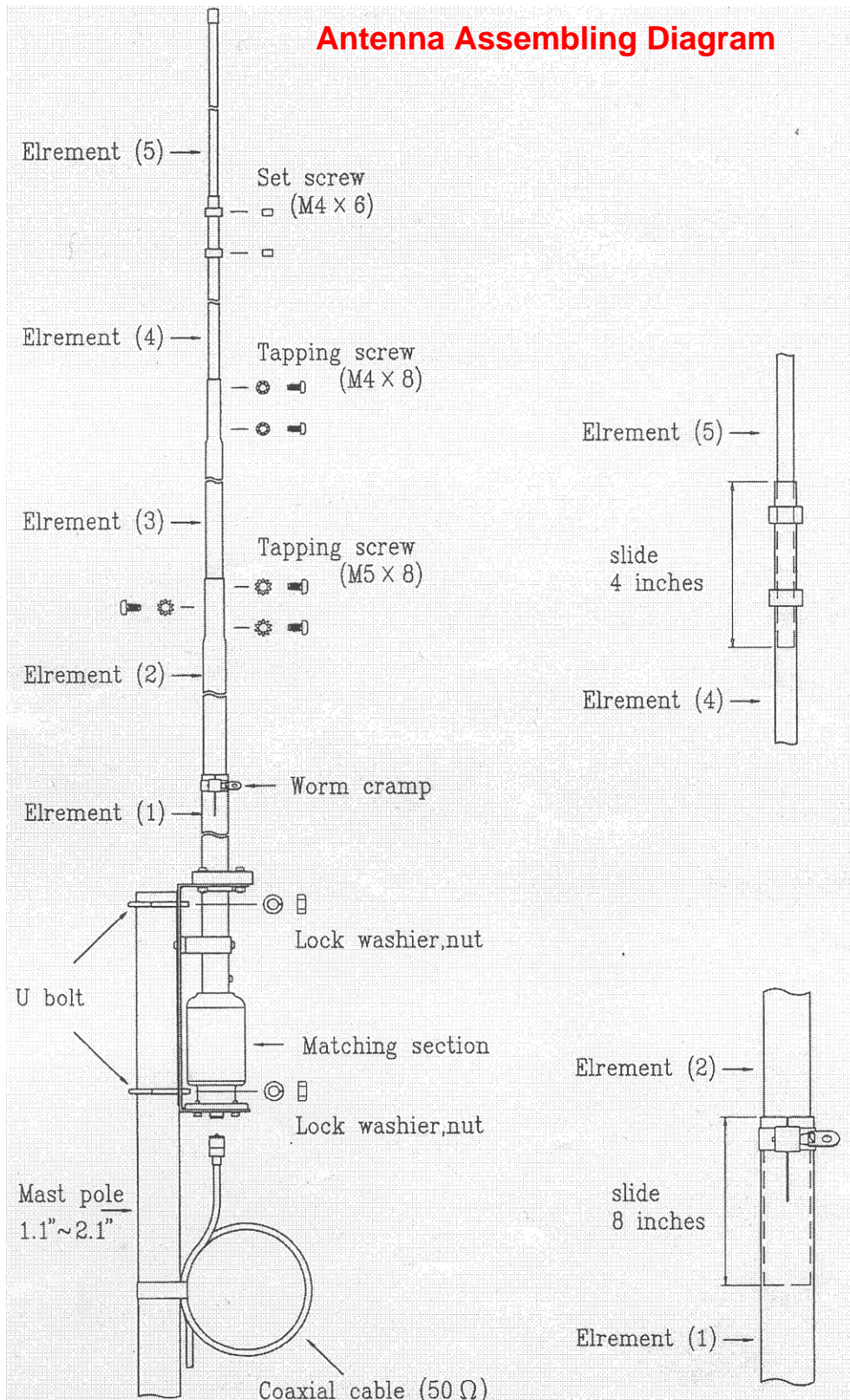
Maintenance

- If mal-function occurred, stop operation and try to find the reason. If it is not settled, please contact the store/shop where you purchased the antenna.
- Before the practical use while transmitting, check the VSWR. Make sure it is less than 1.5 at your operating frequency.
- Routinely check and confirm tight fastening of each screws, clamps, etc.

Customer Service

- Replacement parts and accessories are available at our factory and dealer.
- This quality product has manufactured under strict quality control.

Antenna Assembling Diagram



Assembling

1. Slide the element (2) into the element (1) 200mm, and then secure worm clamp.
2. Slide out the element (3) from the element (2) until all 3 holes of both elements can be seen together. Using tapping screws (M5 x 8), tighten both elements.
3. Slide out the element (4) from the element (3) until 2 holes of both elements can be seen together. Using tapping screws (M4 x 8), tighten both elements.
4. Slide out the element (5) from the element (4). Then slide it again into the element (4) 100mm, tighten them with a pair of screw sets.
5. Using the supplied U bolts, washer and nuts, tighten them against your mast.
6. Connect 50 ohms coaxial cable with a PL-259 connector to the antenna connector's matching section. Tape over the connector with a supplied self adhesive tape.