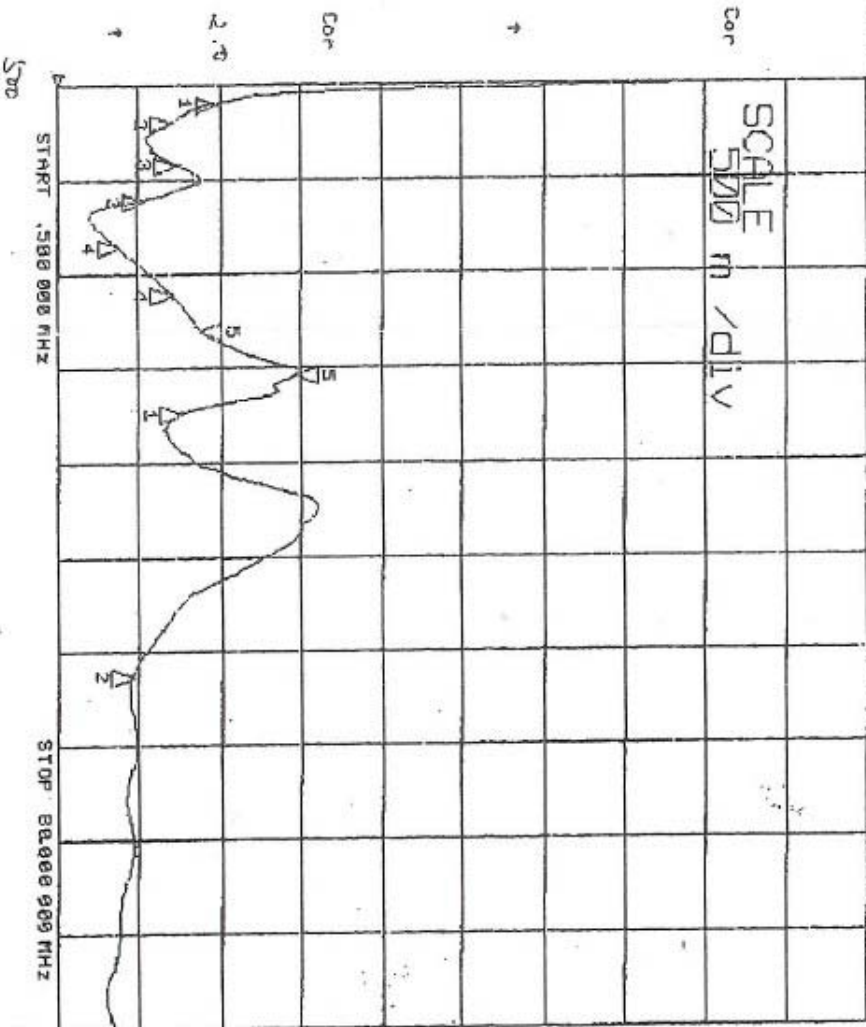


2006年10月17日 9時26分 北原産業(株)

NO. 8109 P. 1

CH1 S11 SMR 500 m /div REF 1
 CH2 S11 SMR 500 m /div REF 1

1 Aug 2005 15:42:31
 C1 1.6759 21.150 000 MHz
 C2 2.4725 24.930 000 MHz



CH1 Markers

- 1: 1.9634
- 2: 1.9100 MHz
- 3: 1.6974
- 4: 1.5228
- 5: 1.4562
- 6: 1.3729
- 7: 1.3000 MHz
- 8: 1.1000 MHz

CH2 Markers

- 1: 1.7583
- 2: 1.4562
- 3: 1.5228
- 4: 1.6983
- 5: 1.8120 MHz

MFB-300

Instruction Manual

Thank you for purchasing Maldol MFB-300 Broad Band Base Antenna. Please read the Instruction Manual carefully before assembling. Keep the Manual with you to maintain the Antenna properly.

Note:

Indicatory Marks

Important remarks are stated to use the Antenna avoiding it causes of damage to human body and properties.

Please read it carefully to understand these remarks

⚠ Danger

Please put security belt on when you assemble the Antenna. construct it in a safety condition. Don't construct it at the unstable place. May in a danger to fall down.

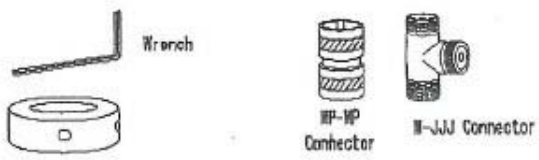
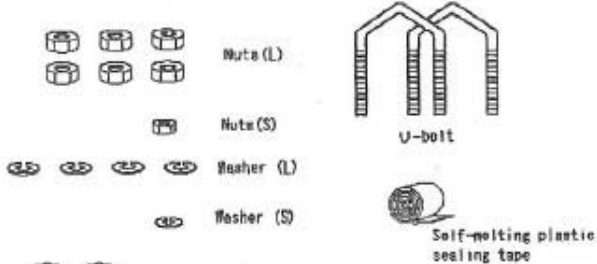
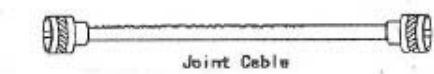
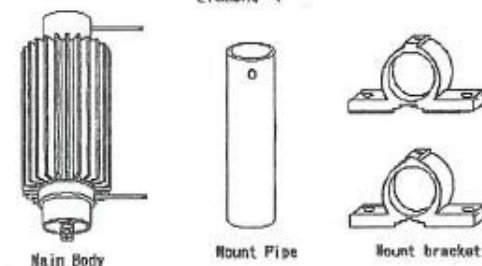
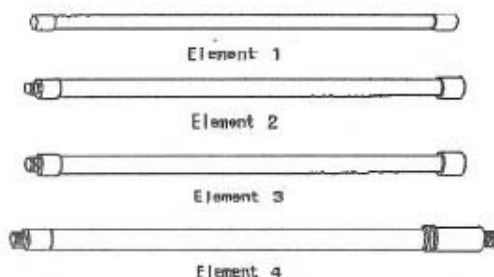
- Be careful not to drop the Antenna, parts and tools. Please construct it where does it not hit against the person and the things etc.
- Please reconfirm after if the Antenna is installed tight, if the screw is loosened make it tight again.

⚠ Warning

- If you touch the Antenna while it's transmitting might have electric shock or burned. Be sure there is nobody around.
- When the thunder occurs, disconnect the coax cable from the equipment, put it outside where it does not wet. The Antenna may be struck by lightning.
- Do not install the Antenna too close to electric wire or telephone wire, it may cause to have electric shock or broken the wire

⚠ Notice

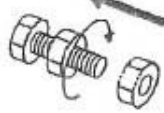
- Do not insert the output over the resistance input power which is appointed. Not only break the Antenna but also may break the transceiver too.
- SWR of this Antenna is less than 20 due to it is designed as wide band. If SWR is less than 20 it's work properly but we recommend to use the Antenna tuner too.
- Frequency of HF band may cause to have electrical obstacle on the home electric appliances or telephone equipment. therefore please confirm if it's exerted influence around.



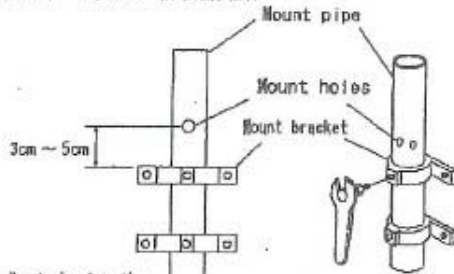
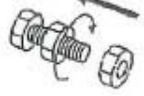
ASSEMBLE & ATTACHMENT

- ① Through the bolt (L) into the Nut (L) Make it 2 sets. Through the bolt (S) into the Nut (S). Make it 1 set.

use 10m & 8mm spanner



- ② Install the Mount bracket to the mount pipe. Mount hole side could be up. Be sure the top of the Mount bracket is located 3~5cm under the Mount hole

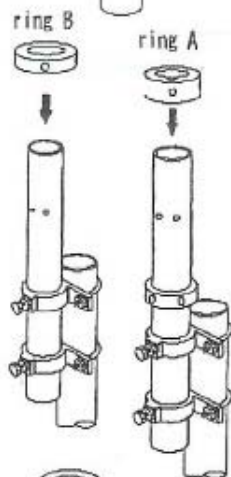


Through the Mount pipe into the Mount bracket, fix the bolt (L) and lock it with the Nut (L).

- ※ Consider the balance of the top and bottom well to install the Mount bracket to make the Antenna stands vertically.

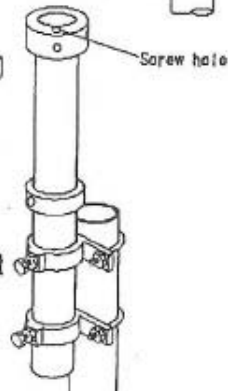
- ③ This Antenna is suitable for $\phi 25 \sim \phi 60$ mast (mount pipe). Through the Washer (L), Nut (L) into the U-bolt. Fix tight as the diagram.

- ※ Install to the mast under the Mount hole.

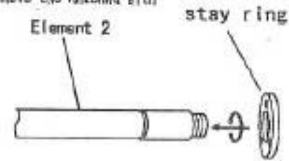


- ④ Through the mount ring (B) to the mast and put the mount ring (A) up to the ring (B)

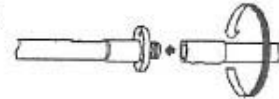
- ※ Hex screw is already has set with the ring. ring (B)'s mount hole make it down, ring (A)'s mount hole make it up when you assemble the pole.



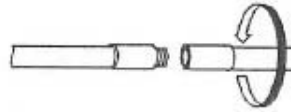
- ⑤ This antenna is able to assemble 4 Elements and also you can make it 3 Elements too. When it's assembling 3 Elements, The receiving frequency will be a little bit down(less). Please consider the place and condition well to stand up the Antenna. When assembling the Antenna with 4 Elements use the supplied stabilize the Antenna. When assemble the Antenna with 4 Elements, set the stay-ring between Element 2 and 1, connect these elements by hand.



- ⑥ Connect Element 2 & Element 3, Element 3 & Element 4 by hand as well.

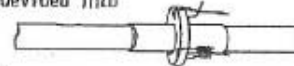


When assembling the Antenna with 3 Elements it is not required to set the Stay-ring, but if it is windy we recommend to fasten the Stay rope for the safety. Connect Element 2 & 4 by hand as well

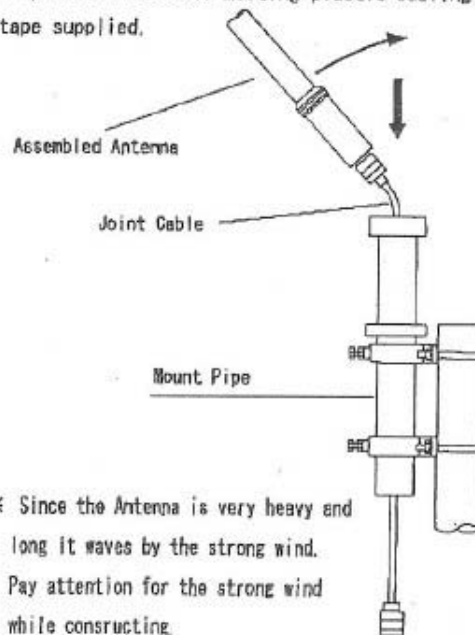


- ⑦ Through the Stay-rope to Stay-ring hole.

Cut the supplied Stay-rope divided into 3 and through each stay ropes into the holes and tie them tight.



- ⑧ Connect the Joint cable to MJ-Connector of Element 4 and assemble to the Mount pipe. To make connector section waterproof wrap around the self melting plastic sealing tape supplied.



- ※ Since the Antenna is very heavy and long it waves by the strong wind. Pay attention for the strong wind while constructing.

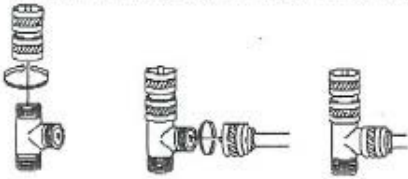
- ⑨ Install the assembled Antenna to the mount pipe.
Fix the Mount ring (B) to right side hole with Bolt(s) which is assembled with the washer (S).

Open to

(Insert the bolt (S) which is prepared on the first step to mount ring (A) and install to the mount pipe as well as ring (B)

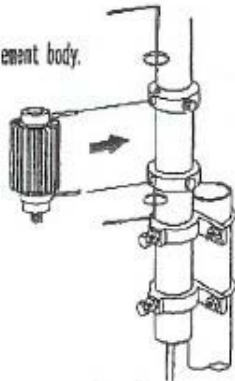


- ⑩ Connect the N-J-N Connector and M-J-J Connector as the diagram below. Each connection parts fix the screws tight by hand. Wrap the self-melting plastic sealing tape to make it waterproof.

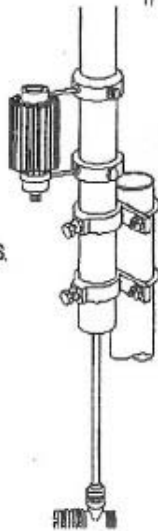


- ⑪ Assemble the Main body to the Element body.

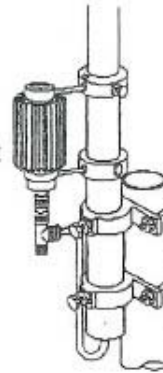
Secure the Main body to Mount hole of the Element body with Hex lenth.



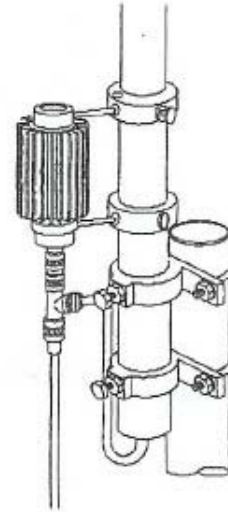
- ⑫ Confirm the assembling condition again if the current condition exactly same as the diagram or if there is loosened screws.



- ⑬ Install the N-J-N Connector to Main body. Tightened the connector shell tight. Wrap the self-melting plastic sealing tape at the connect section.



- ⑭ Connect the coaxial cable (not including with the package) to N-J-N Connector. Tightened the connector tight. Wrap the self-melting plastic sealing tape at connection section for waterproof.



How to fasten the stay rope.
stretch the rope on 3 directions uniformly.

