

OPERATION MANUAL

Model H-422 4-Band Trap Dipole Antenna

Features:

- 1) Newly designed Non-Space, Wide Band dipole antenna.
- 2) Can be used both Straight-type and/or V-type. When used as V-type, ready On-Air from low location of 3m high from the ground.
- 3) CBL-2000, high power 2KW/SSB balun, is included as the standard accessory, which helps for preventing TVI, BCI and other interference.
- 4) Specially developed High Power Trap Coils assure high power QSO constantly.
- 5) The 3 Radiator Sizes LOW, MID, HIGH were illustrated for much FB transmission at 21 & 28MHz.

Specifications:

Frequencies 7, 14, 21, 28MHz.

Impedance 50 ohm

V. SWR Less than 1: 1.5 at center frequency

Max Input Power 1KW (SSB)

Connector M-J (SO-239 type)

Max wind velocity: 35m / sec.

Length 10.3m (Straight type)

7.4m (V-type)

Weight 5.4 kgs.

Rotation Radius 5.3m (Straight type)

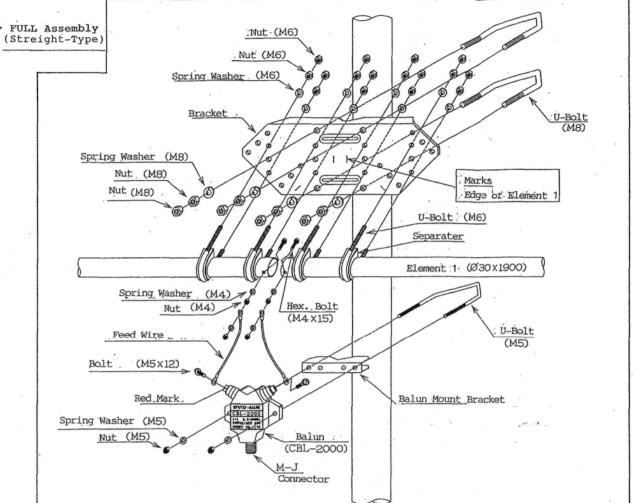
3.8m (V-type)

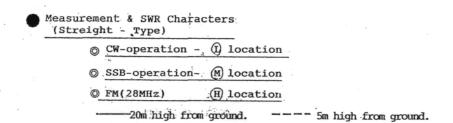
Suitable mast: 38 - 62mm dia

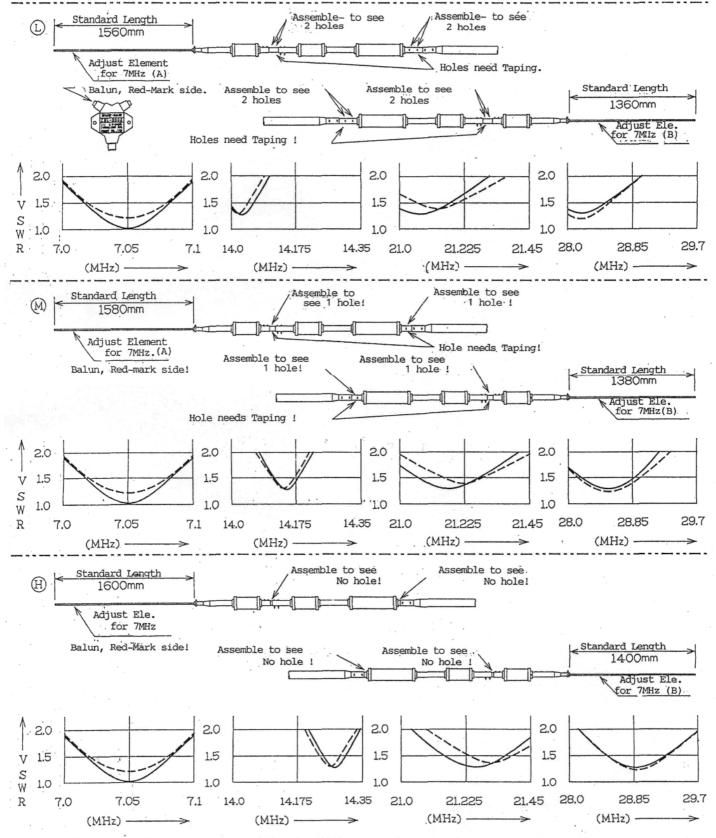


Nos.	Parts' Names	Qty.
1	Element 1 (\$30 x 1900)	2
2	Trap	2
3 ·	Trap for 14MHz	2
4-1	Adjust Element for 7MHz(\$10x1500)	1
4-2	Adjust Element for 7MHz(\$10x1750)	1
5	Mounting Bracket Assembly	·
5-1	Bracket	-1
5-2	Separater	4
5-3	U-Bolt (M6)	4
5-4	Spring Washer (M6)	8
5-5	Nut (M6)	16
5-6	U-Bolt (M8)	. 2
5-7	Spring Washer (M8)	4
5-8	Nut (M8)	8
6	Parts for Element Assembling	_
6-1	Bolt (M4 x 30)	8
6-2	Hex. Bolt (M4 x 15)	2
6-3	Spring Washer (M4)	12
6-4	Nut (M4)	12
7	Balun Mounting	
7-1	Balun CBL-2000	- 1
7-2	Balun Mount Bracket	1
7-3	U-Bolt (M5)	. 1
7-4	Spring Washer (M5)	. 2
7-5	Nut (M5)	2
7-6	Bolt (M5x12)	2
7-7	Feed Wire (w/contal nut)	2

(CBL-2000) M-J Connector		7-4 Sp 7-5 Nu 7-6 Bo	ring Washer (M5) t (M5) t (M5) t (M5x12) ed Wire (w/contal nut)	2 2 2
Bolt (M4x30) Spring Washer (M4) Prain Holes Dynniad	Element 1	Trap Bolt (M4 pring Washer	Trap for 14MHz Fix E	olt



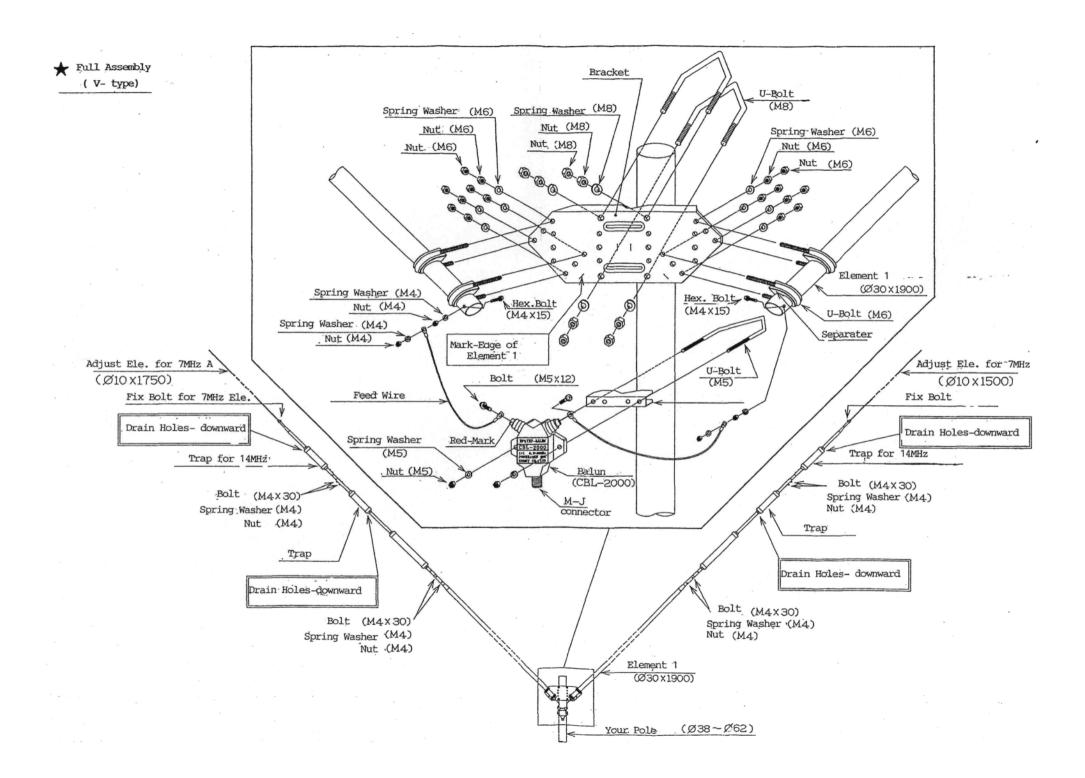




^{**} You can change Center freq. of 7MHz by sliding the 7MHz Adjust Element, without any influence to other frequencies.

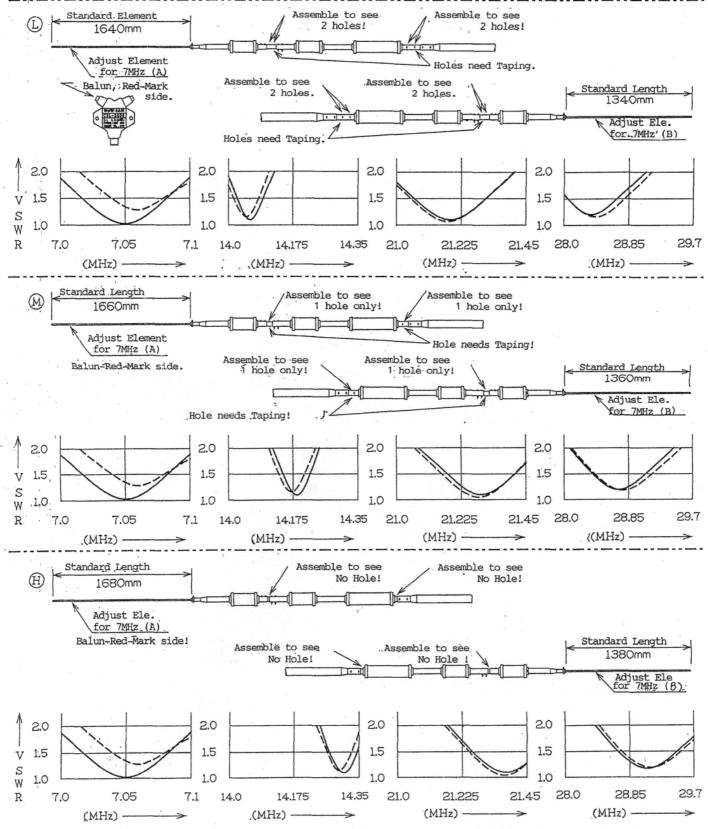
^{**} Shift of 7MHz band per each 1cm, is 15KHz.

^{**} Difference of Left & Right 7MHz element is to be 200mm constantly.



Measurement & SWR Characters (V-type)

- CW-operation (L) location
- - -----20m high from ground ----5m high from ground



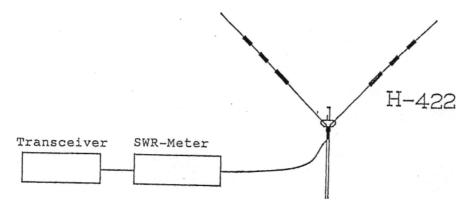
^{**} You can change Center Freq. of 7MHz by sliding the 7MHz adjust Element, without any influence to other frequencies.

^{**} Shift of 7MHz band per each 1cm, is 15KHz.

^{**} Difference of Left & Right 7MHz Element is to be 300mm.

Frequency Adjustment:

1) Please connect SWR meter between H-422 and transceiver, as shown below:



- 2) 14, 21 and 28MHz are Wide bands, then No Frequency adjustment is necessary. But, kindly check which location of is preferred.
- 3) Antenna location may give great influences on the 7MHz band. Then, adjust the length of 7MHz Adjust Ele. of both (A) & (B) watching your SWR meter. Element sliding of 1cm changes the frequency by 15KHz.

Remarks:

- 1) Drain Holes on the Trap coils must be assembled to face Downward, to prevent water-inflow.
- 2) Kindly proceed necessary Water-Proof works, on the cable-joint section etc., using self-amalgamating tape and/or vinyl tapes.

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