Operating Manual CHMET ANTEN Model: DS-150S At opening package and before assembling, please Wide Band Discone Antenna refer to the right figs, For: $25 \sim 1500 \text{MHz}$ and Parts List. Please read through this Operation Manual initially for correct assembling and proper operation. 50MHz Top Ele. Features: Fix Screw antenna, which allows TX operation at 50MHz Ele. 50, 144, 430, 800, and 1200MHz bands. Fix Screw (4) @All hardwares are made of anti-corrosive stainless steel. Light weight and compactly designed discone for easy mounting. Specifications: 6 TX Frequency: 50, 144, 430, 800, 1200MHz M-I@ Gain : 5.12 dBi connector : 100 W @Impedance : 50 ohms OV.SWR : Less than 1.5 (at center of TX-frequency) Weight : 1.78 Kg DS-150S Connector : PL259 female type Available Mast dia.: Ø30 ~ Ø62 Transceiver SWR Meter Assembling Works: 1) Please mount Support Pipe onto your Pole, using Mount Bracket Assembly and U-Bolt. The distance from the

Bracket Assembly and U-Bolt. The distance from the low-end of the Mount Bracket to the low-end of the Support Pipe is to be 3cm approximately.

2) Coax.cable(W/PL-259 connector) through the Support Pipe

and assemble to the Power Feeding Section.

Please cover the connector joint part by the Self-Melting
Tape, prolonging twice as long, for complete water-proof.

3) Then, mount the Power Feeding Section on the Support Pipe, and assemble it with Hex Bolt and Sp.Washer.

- 4) Assemble 6 Disc Element(with Caps.) to the Power Feeding Section and lock them with Nuts tightly.
- 5) Please confirm again the tight-fastening of each screws, bolts and nuts.
- 6) Finally, assemble 6 Cone Elements(with Caps.) to the Power Feeding Section, and lock them with Nuts firmly.

How to adjust 50MHz TX-Frequency:

Pre-set center frequency is 51.0MHz.

- 1) Connect Transceiver, SWR Meter and DS-150S.
- 2) Unfasten the Screw at 50MHz Top Element. Then, adjust length of the Top Element, watching SWR Meter. Lower frequency-longer, and higher-shorter.
- 3) Frequency change per each 1cm is 0.6MHz.
- 4) When much higher frequency is proposed, you can cut off the low-end of the Top Element.

Parts List:

No.	Parts Name	Qty.
1	Power Feeding Section	1 pce.
2	50MHz Top Element	1 pce.
3	50MHz loading Coil	1 pce.
4	50MHz Lower Element	1 pce.
5	Disc Element W/Nut	6 set
6	Disc Cap	6 pce.
7	Cone Element W/Nut	6 set
8	Cone Cap	6 pce.
9	Support Pipe	1 pce.
10	Fix Bolt & Sp.Washer	1 set
11	Mount Bracket, Nut & Sp.Washer	2 set
12	U-Bolt, Nut & Sp.Washer	2 set
13	Self-Melting Tape	1 pce.
14	Hex. Wrench	1 pce.
15	Coax.Cable RG-58A/U 20m	1 set

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