

Operation Manual

Model CA-28HB3L

3 Element HB9CV Base Antenna

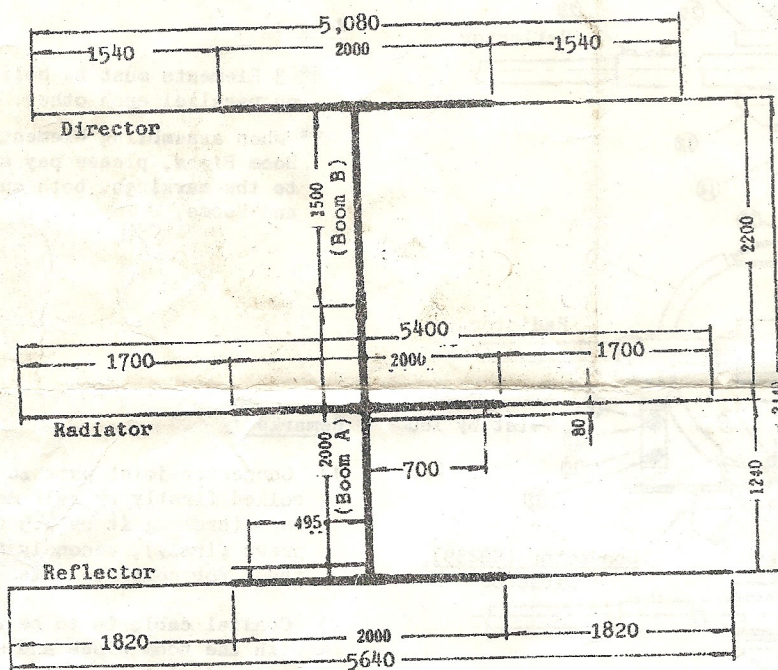
Features

- * 3 Element, HB9CV, could realize high gain of 8.4dB (F/B 21.0dB), which is almost equal to 4 element Yagi.
- * All Stainless Steel hardware assure long durability.
- * Light weight of easy installation.
- * Extremely wide band coverage of 26.0 to 28.0MHz with element adjustment.

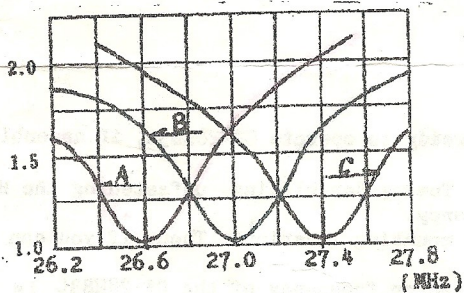
Specifications:

- Type : 3 Ele. HB9CV Yagi
Frequency : 26, 27 upto 28MHz.
Impedance : 50 ohm
V.S.W.R. : Less than 1 : 1.5
Gain : 8.4dB
Half Wave Width : Less than 58°
F/B Ratio : Over 21.0dB
Connector : M-J (S0239)
Rotating Radius : 3,320 mm (Max.)
Measurement : 3,500 x 5,640 mm
Max. Power : 500W AM
Avail. Mast Dia. : 32 - 60 ϕ mm
Weight : 5.4 kgs.
Wind Reception Area : 0.25 m²

Overall Figure and Standard Measurement

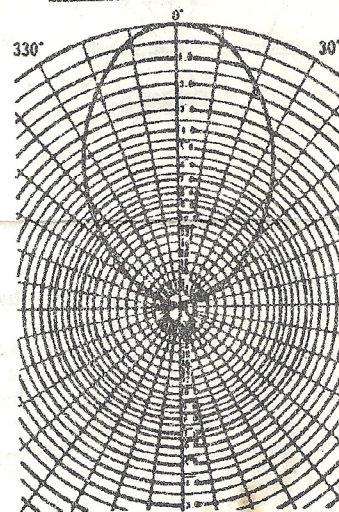


VSWR Characters



A hole : Red Color
B hole : Blue "
C " : Black "

Beam Pattern

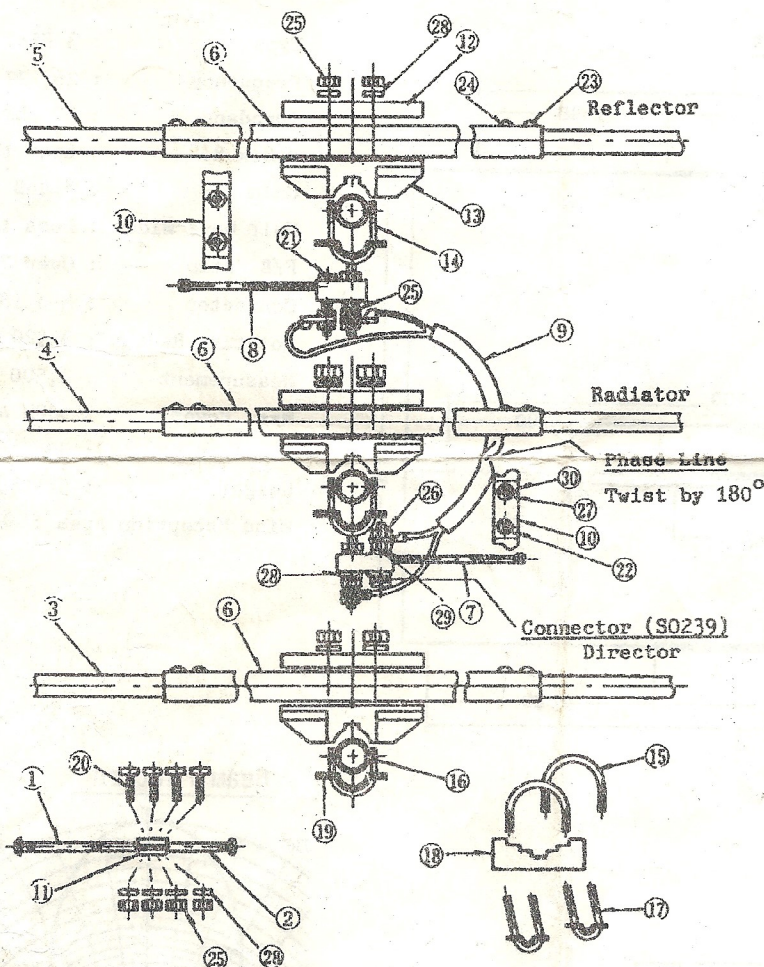


Comet Co., Ltd., Japan

Parts List

No.	Parts Name	Qty
1	Boom A, w/cap, length 2000 x 32φ	1
2	Boom B, w/cap, length 1500 x 32	1
3	Element A, length 1590 x 16φ	2
4	Element B, length 1750 x 16φ	2
5	Element C, length 1870 x 16φ	2
6	Center Element, length 2000 x 19φ	3
7	Tuning Bar (1) w/connector	1
8	Tuning Bar (2) w/o connector	1
9	Phase Line w/lug connector	1
10	Tuning Bar Holder	4
11	Boom Joint	2
12	Element Clamp A	3
13	Element Clamp B	3
14	Y-shaped bolt	2
15	U-bolt (L)	2

No.	Parts Name	Qty
16	U-bolt (M)	1
17	U-bolt (S)	2
18	Cross Mount	1
19	Pipe Supporter	3
20	Hex. Bolt (L)	4
21	Hex. Bolt (M) - already assembled	1
22	Hex. Bolt (S)	4
23	Tapping Screw, 4x10	12
24	Star Washer, 4mm	12
25	Nut (L)	16
26	Nut (M)	4
27	Nut (S)	4
28	Spring Washer (L)	12
29	Spring Washer (M)	2
30	Spring Washer (S)	4



Note :

- ** 3 Elements must be horizontally on parallel each other.
- ** When assembling Element to the Boom Pipes, please pay attention to the markings, both on Elements and Booms.

Remarks :

- 1) Connector-joint part is to be rolled firstly by self-melting tape (prolong it by 1.5 times and press firmly), secondly by vinyl tape, for complete water-proof.
- 2) Coaxial cable is to be wired along with the boom pipes and mast, using vinyl tape.
- 3) For setting-up the antenna, please choose good location (no high bldg. no metallic obstacles near-by).

V. SWR Adjustment

- ** As shown in the VSWR Characters, you can be ready to operate CA-28HB3L, if assembled as per the right measurement.
However, frequency tuning can be done by the Tuning Bar sliding, unfastening the Hex Bolt, if better VSWR is preferred at the desired frequency.
- ** VSWR greatly varies according to the antenna mounting location. Then, if you can not find out good VSWR, please change the location.
- ** When assembled as the standard measurement, center frequency of the CA-28HB3L is A:26.6, B:27.0 and C:27.4MHz. Please refer to the VSWR Characters. (Please find out A,B,C holes on the 7,8 Tuning Bars.)