

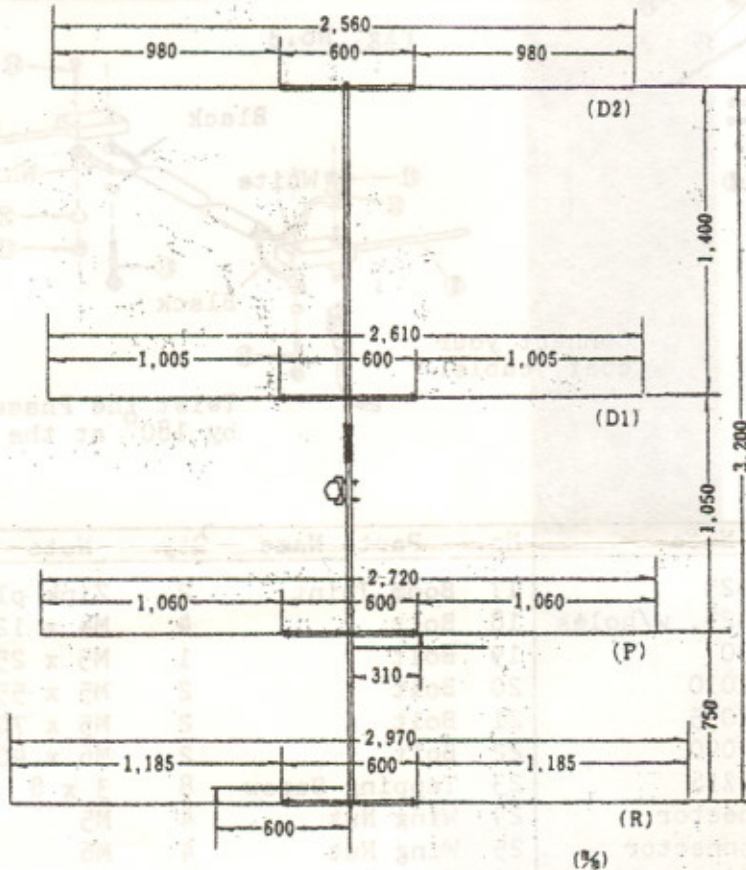


MODEL CA-52HB4

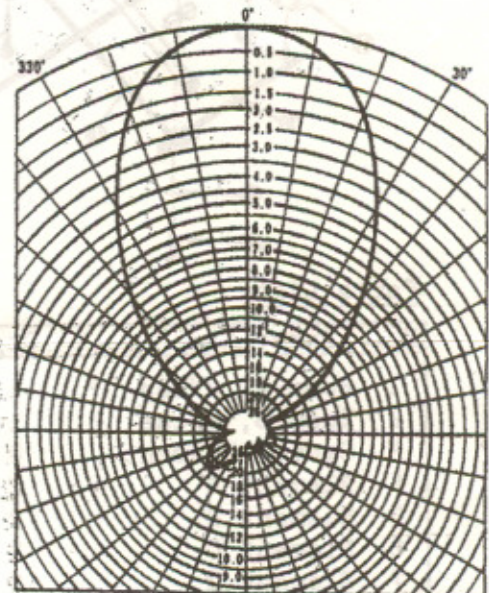
Features:

- * 4 element, but high gain of 10.4dB antenna. F/B is more than 19dB !
- * Extremely wide band ! At the standard measurement, it covers wide 3.5MHz.
- * Light weight, and usable for temporary base station.
- * Long-life construction, using high quality aluminum and stainless steel hardwares.

Overall Measurement



Beam Pattern

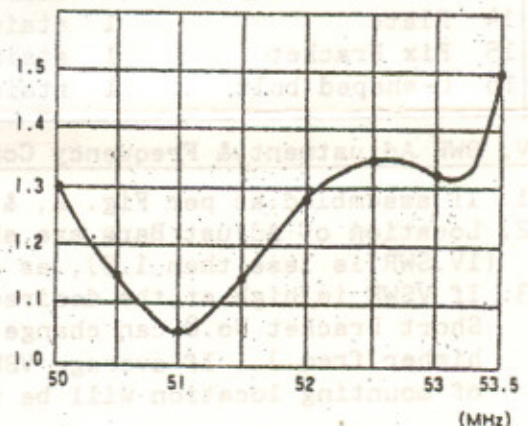


(from actual measurement)

Specifications:

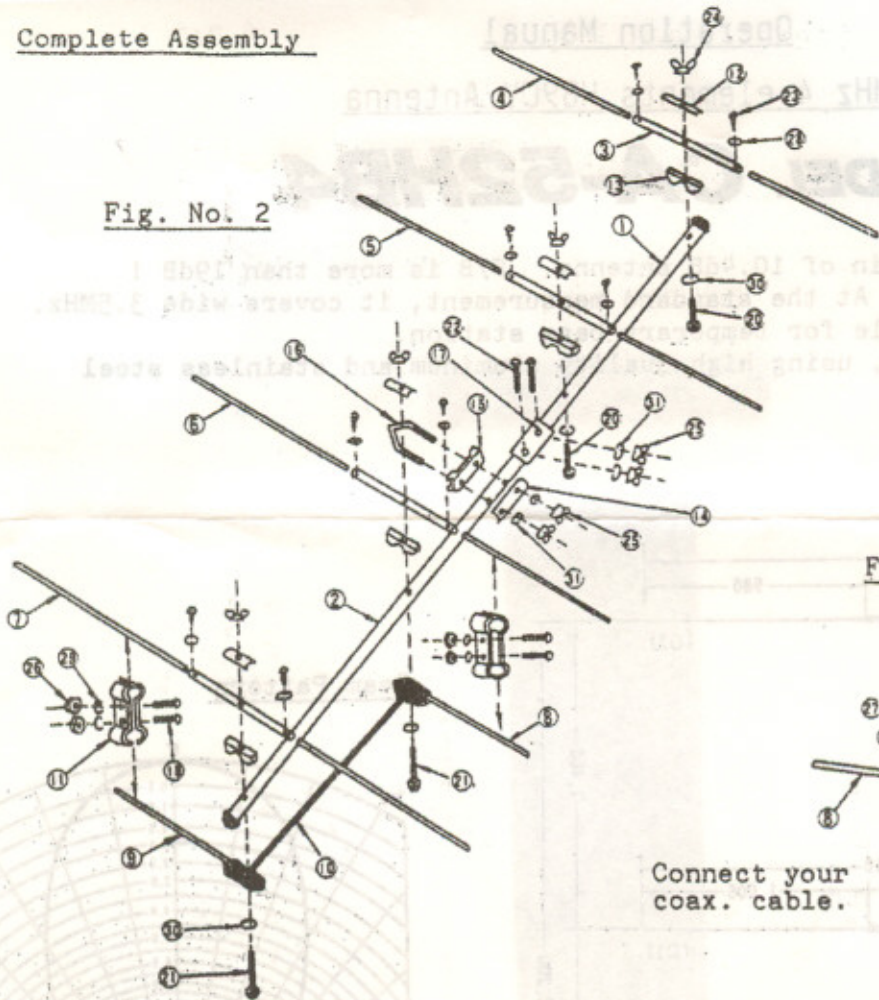
- Type of antenna : HB9CV, 4-element
- Frequency : 50MHz band
- Impedance : 50 ohm
- V. SWR : Less than 1.5(50-53.5MHz)
- Gain : 10.4 dB
- Half power angle : Less than 54°
- F/B ratio : Over 19dB
- Connector : M (SO239) type
- Rotating Radius : 2.22 m
- Measurement : 3,250x2,970 m/m
- Max. Power : 400W SSB
- Mast diameter : 25φ - 65φ
- Weight : 2.1 kgs.

V. SWR Characters



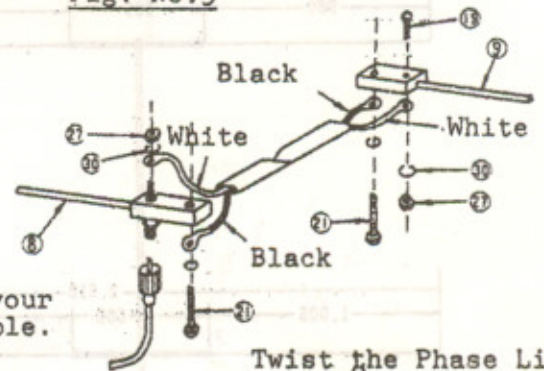
Complete Assembly

Fig. No. 2



Phase Line Assembly

Fig. No.3



Connect your
coax. cable.

Twist the Phase Line
by 180° at the center

Parts List

No.	Parts Name	Qty.	Note	No.	Parts Name	Qty	Note
1	Boom A, w/cap	1	25φx1625	17	Boom Joint	2	Zink plated
2	Boom B, w/cap	1	25φx1625, w/holes	18	Bolt	4	M4 x 12
3	Center Element	4	11φx600	19	Bolt	1	M5 x 25
4	Element A	2	9.5φx1010	20	Bolt	2	M5 x 55
5	Element B	2	9.5φx1035	21	Bolt	2	M5 x 70
6	Element C	2	9.5φx1090	22	Bolt	2	M6 x 40
7	Element D	2	9.5φx1215	23	Tapping Screw	8	3 x 8
8	Adjust Bar (1)	1	w/connector	24	Wing Nut	4	M5
9	Adjust Bar (2)	1	w/o connector	25	Wing Nut	4	M6
10	Phase Line	1	w/terminal	26	Nut	4	M4
11	Short Bracket	4	aluminum	27	Nut	2	M5
12	Element Holder	4	aluminum	28	Washer	8	for 3mm
13	Element Receptacle	4	aluminum	29	Sp. washer	4	M4
14	Plate	1	stainless steel	30	Sp. washer	6	M5
15	Fix Bracket	1	stainless steel	31	Sp. washer	4	M6
16	U-shaped bolt	1	stainless steel M6				

V. SWR Adjustment & Frequency Control:

1. If assembled as per Fig. 2, & 3, you can start operation immediately.
2. Location of Adjust Bars are shown in Fig. 1. The band width is wide 3.5MHz (V.SWR is less than 1.5), as shown on 1st page.
3. If VSWR is high at the desired frequency, change the location of Short Bracket. Short Bracket No.8 can change frequency. (inner location-lower freq., and outer-higher freq.) If average VSWR is comparatively high at all frequencies, change of mounting location will be recommended.

Remarks :

At the coax. joint part, please use self-melting tape first, then vinyl tape tightly, for complete water-proof.