

OMNI-DIRECTIONAL HIGH GAIN COMMERCIAL/ HAM/CB BASE STATION ANTENNA

MODEL: HCS-100

Specifications

GAIN

DC Ground 5.75dB

VSWR

Less than or equal 1.5:1

FREQUENCY RANGE

26 ~ 31 MHz

POLARIZATION

Vertical

IMPEDANCE

50 Ohm

CONFIGURATION
POWER CAPACITY

half wave over a quarter wave variable mutual transductance tuned

POWER CAPACITY

2000 Watts

CONNECTOR

SO-239

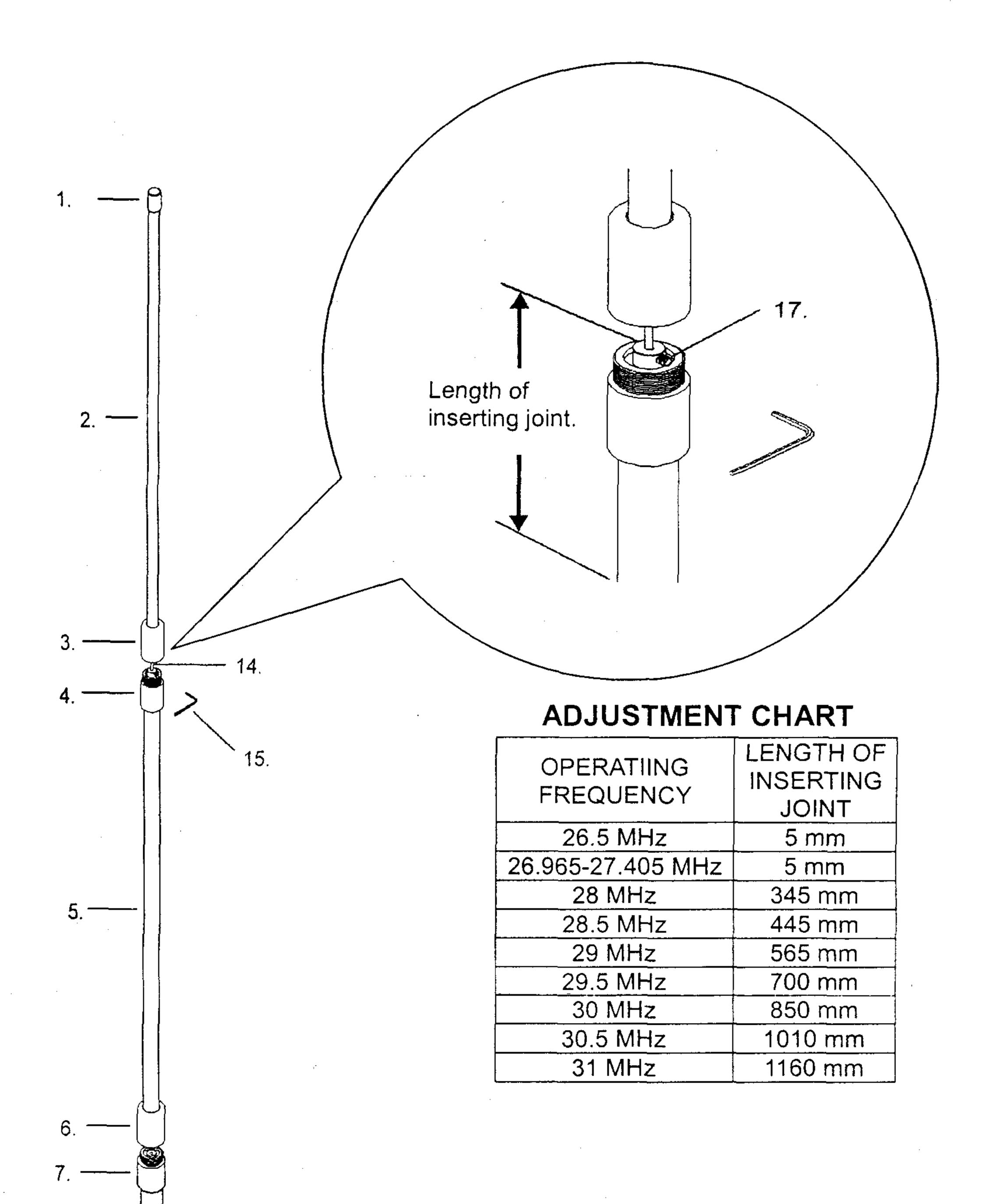
Installation

Before you begin installation, read this manual and the separate recommendation information sheet. For your safety and convenience, plan each step of the installation in advance.

- 1. Refer to drawing (rear side of this instruction). Loosen the set screw (part #17) using the supplied "L" wrench (part #15), and slide the radiator element (part #14) into the radiator joint (part #4) to correct length of each frequency showing the adjustment chart, then tighten the set screw (part #17).
- 2. Screw up the bottom joint of upper section (part #3) tightly onto the top joint of center section (part #4).
- 3. Screw up the bottom joint of center section (part #6) tightly onto the top joint of bottom section (part #7).
- 4. Secure the mounting bracket (part #13) to mounting pole (not included) in desired location using U-Bolts (part #12), locking nuts (part #10), locking washers (part #11). Tighten it securely with wrench (not included).
- 5. Run the cable from radio to the bottom of mounting bracket (part #13) and screw PL-259 on cable end tightly onto SO-239 connector at the bottom of mounting bracket (part #13).

Fine-Tuning Procedure(After Roof-Mounting)

- 1. Check SWR at low and high of frequency band (for example ch.1 & ch.40 of the CB band).
- 2. If the SWR is better at low (ch.1-CB) than at high (ch.40-CB), Raise up the twin tuning-rings by 1/4~1/2 turn.
- 3. If the SWR is better at high (ch.40-CB) than at low (ch.1-CB). Lower down the twin tuning-rings by 1/4~1/2 turn. Repeat the step 2 & 3 till the SWR is nearly the same in the low band and the high band of frequency and the best performance will be obtained. Then tighten the twin tuning-rings against each other.



PARTS LIST

		REF#	DESCRIPTION	Q'TY
		1.	CAP	1
		2.	UPPER TUBE	1
		3.	TUBE JOINT OF UPPER SEC.	1
8.		4.	TOP JOINT OF CENTER SEC.	1
		5.	CENTER TUBE	1
		6.	BOTTOM JOINT OF CENTER SEC.	1
		7.	TOP JOINT OF BOTTOM SEC.	1
		8.	BOTTOM TUBE	1
	∠ 12. ·	9.	TWIN FINE-TUNING RINGS	2
	12.	10.	LOCKING NUT	4
9. ———		11.	LOCKING WASHER	4
11.		12.	U-BOLT	2
		13.	ANTENNA BASE & MOUNTING BRACKET	1
10.	13.	14.	UPPER RADIATING ELEMENT	1
	12.	15.	2mm "L" TYPE WRENCH	1
18. ——		16.	UHF FEMALE (SO-239) CONNECTOR	1
		17.	STAINLESS STEEL SET SCREW	1
11.		· · · · ·	CAUTIONARY STICKER	1
	°			· <u></u>