



VHF BAND BASE STATION ANTENNA MODEL : BS-150

Specifications

GAIN	6 dB better than quarter wave antennas
VSWR	Less than 1.5:1
FREQUENCY RANGE	136 – 174 MHz
POLARIZATION	Vertical
IMPEDANCE	50 Ohm
CONFIGURATION	GROUNDING $5/8 \lambda$ OVER $5/8 \lambda$
POWER CAPACITY	200 Watts
CONNECTOR	SO-239

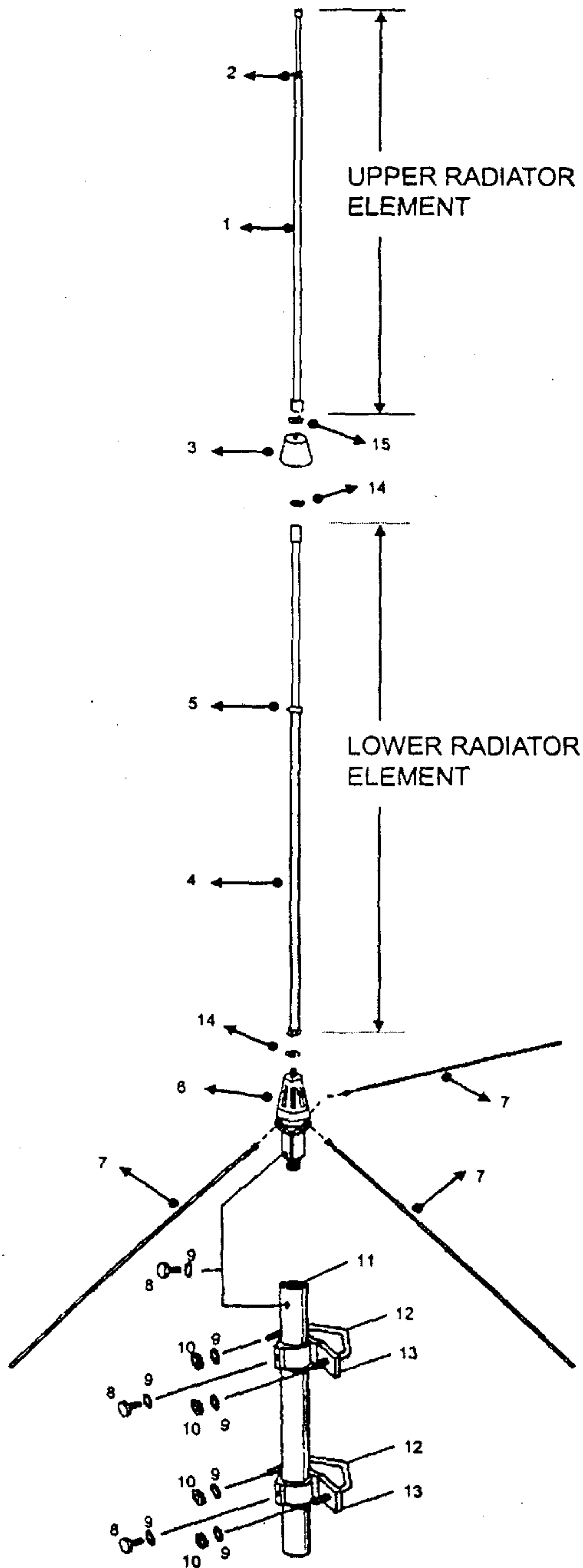
Assembly

1. Refer to drawing (rear side of this instruction).
2. Put the locking nut and washer onto the ground plane radials, then screw the three radials(part #7) into threaded holes on the metal antenna base(part #6) and tighten them by fingers. Secure the radials by tightening locking nuts with wrench.
3. Secure supporting pipe (part #11) to mounting pole (not included) in desired location using brackets (part #13), U-bolts (part #12), locking screws (part #8), locking washers (part #9),and locking nuts(part #10) supplied. Tighten them securely with a wrench or screw driver.
4. Run up the cable from radio through supporting pipe (part #11) and screw PL-259 on cable end tightly onto SO-239 connector at the bottom of antenna. Assemble antenna into support pipe with open threaded hole turned so that it will align with hole on support pipe for locking screw. Screw the locking screw into hole and tighten it securely with wrench or screw driver.

Adjustment

Loosen the screws of clasper(part #2 & 5) on each element(upper radiator and lower radiator) and slide the radiator to the length of desired frequency shown in the tuning chart (rear side). Tighten the clasper securely.

MADE IN TAIWAN



PARTS LIST

PART #	DESCRIPTION	Q'TY
1.	UPPER RADIATOR ELEMENT	1
2.	UPPER CLAMPER	1
3.	PHASING COIL	1
4.	LOWER RADIATOR ELEMENT	1
5.	LOWER CLAMPER	1
6.	MATCHING COIL	1
7.	RADIAL ELEMENTS(NUTS & WASHERS INCLUDED)	3
8.	LOCKING SCREWS	3
9.	LOCKING WASHERS	7
10.	NUTS	4
11.	SUPPORTING PIPE	1
12.	U-BOLT	2
13.	BRACKET	2
14.	SPRING WASHER	2
15.	SPRING WASHER	1

TUNNING CHART

FREQUENCY	UPPER ELEMENT LENGTH	LOWER ELEMENT LENGTH
135-139 MHz	1400 mm	55-1/8 " 1510 mm 59-1/2 "
140-144 MHz	1365 mm	53-3/4 " 1425 mm 56-1/8 "
145-148 MHz	1330 mm	52-3/8 " 1360 mm 53-1/2 "
149-153 MHz	1305 mm	51-3/8 " 1295 mm 51 "
154-158 MHz	1285 mm	50-9/16 " 1245 mm 49 "
158-162 MHz	1255 mm	49-1/2 " 1200 mm 47-1/4 "
162-166 MHz	1220 mm	48 " 1150 mm 45-1/4 "
167-170 MHz	1195 mm	47-1/16 " 1105 mm 43-1/2 "
171-174 MHz	1150 mm	45-7/8 " 1055 mm 41-1/2 "