



UHF BAND BASE STATION ANTENNA MODEL : BS-450

Specifications

GAIN	4.5 dBi
VSWR	Less than 1.5:1
FREQUENCY RANGE	400 – 500 MHz
POLARIZATION	Vertical
IMPEDANCE	50 Ohm
CONFIGURATION	GROUND $5/8 \lambda$ OVER $5/8 \lambda$
POWER CAPACITY	200 Watts
CONNECTOR	SO-239

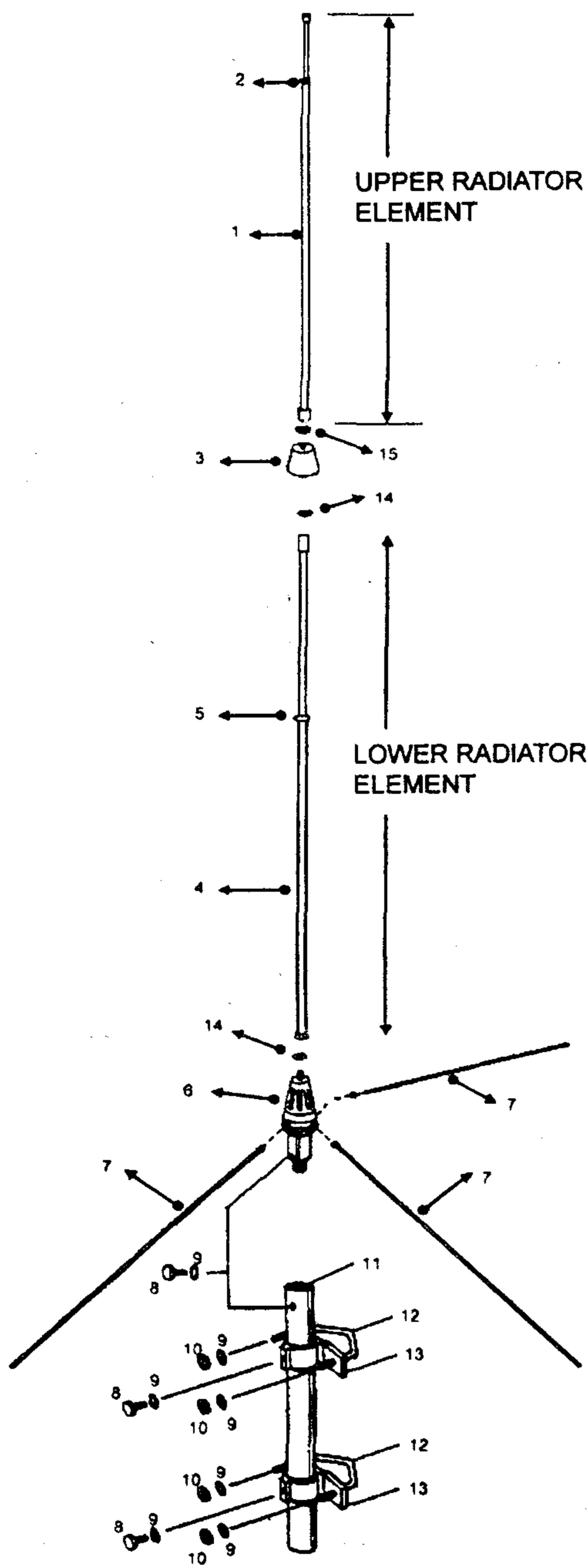
Assembly

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 clamber(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 clamber securely.

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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
400 MHz	450 mm	440 mm
410 MHz	440 mm	420 mm
420 MHz	440 mm	400 mm
430 MHz	440 mm	385 mm
440 MHz	420 mm	370 mm
450 MHz	385 mm	350 mm
460 MHz	385 mm	335 mm
470 MHz	385 mm	320 mm
480 MHz	385 mm	310 mm
490 MHz	385 mm	300 mm
500 MHz	385 mm	300 mm

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