



UHF BASE STATION GROUND PLANE ANTENNA MODEL : UH-2401

Specifications

GAIN	6.5 dB
VSWR	Less than 1.5:1
FREQUENCY RANGE	430 -490 MHz (70 cm)
POLARIZATION	Vertical
IMPEDANCE	50 Ohm
POWER CAPACITY	200 Watts
CONNECTOR	SO-239
OMNIDIRECTIONAL, 3-SEC. $5/8 \lambda$ DESIGN	
LENGTH	1.5 Meter
WEIGHT	About 1.0 Kgs

Assembly

1. Refer to the drawing (rear side of this instruction).
2. Put the locking nut and washer onto the ground plane radials, then screw the three radials(part #2) into threaded holes on the metal antenna base(part #3) and tighten them by fingers. Secure the radials by tightening locking nuts with wrench.
3. Secure supporting pipe (part #7) to mounting pole (not included) in desired location using brackets (part #9), U-bolts (part #8), locking screws (part #4), locking washers (part #5), and locking nuts(part #6) supplied. Tighten them securely with a wrench or screw driver .
4. Run up the cable from radio through supporting pipe (part #7) 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 (part #4) into hole and tighten it securely with wrench or screw driver .

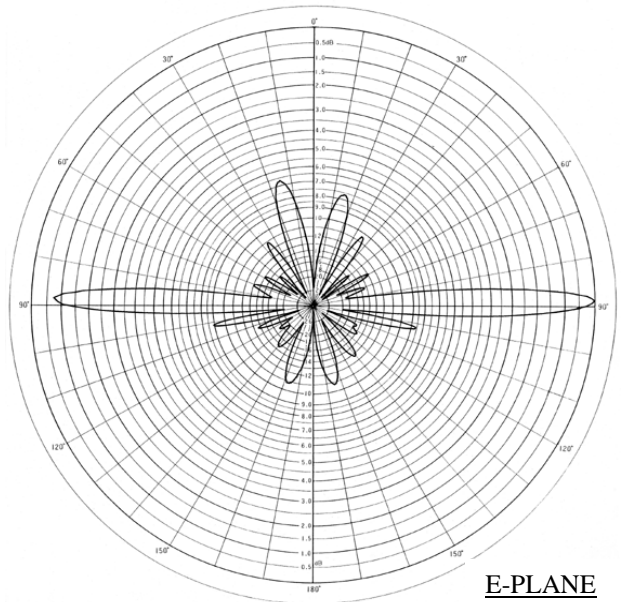
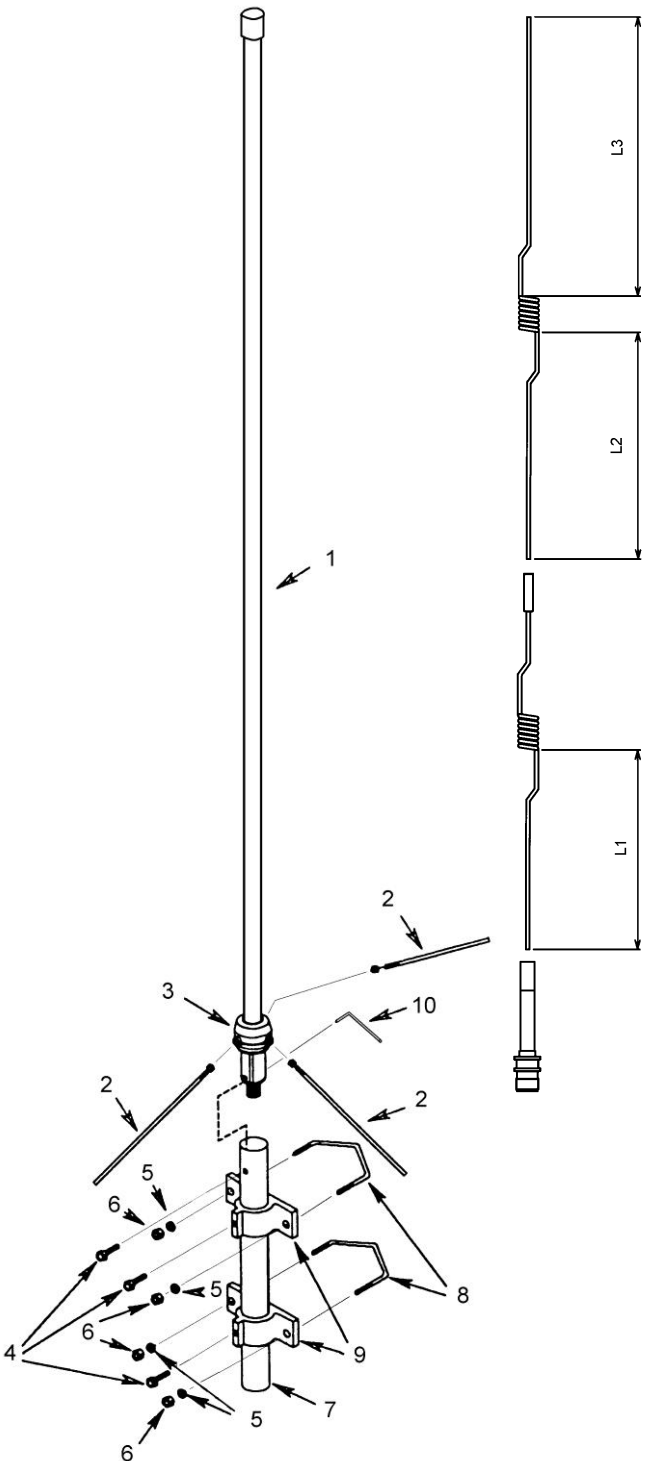
Adjustment

UH-2401 works well on any frequency between 430 – 490 MHz by radiator element cut-tuning. Please refer to the drawing on the rear side of this instruction sheet.

Unfasten the locking screw on the metal antenna base(part #3) of UH-2401. Pull SO-239 connector out and slide the radiator element off the outer tube carefully. Unfasten the screws on the radiator with a screw driver. Cut the L1/L2/L3 to proper length according to the cutting chart. Then assemble three parts of radiator elements and fasten screw with a screw driver. Slide the radiator back into the outer tube and push SO-239 to proper position then fasten the locking screw with a wrench (part #10).

Now you can follow above “ Assembly step 1 to step 4 “ to install UH-2401.

UH-2401 UHF BASE STATION ANTENNA



CUTTING CHART

Freq. (MHz)	L1	L2	L3
	mm	mm	mm
430	445	340	395
434	435	335	390
439	420	325	380
442	400	325	380
444	395	320	375
448	385	315	370
452	375	310	365
457	365	305	360
461	360	300	355
468	335	290	350
473	325	285	345
478	315	280	340
487	300	270	335
491	290	265	330

PARTS LIST

NO	DESCRIPTION	Q'TY
1	OUTER TUBE	1
2	RADIALS & NUT, SPRING WASHER	3
3	MAST	1
4	LOCKING SCREW	3
5	LOCKING WASHER	4
6	NUT	4
7	SUPPORTING PIPE	1
8	U-BOLT	2
9	BRACKET	2
10	WRENCH	1

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