VHF-BASE FIBERGLASS ANTENNA (134-184MHz)

USER MANUAL

ADJUSTMENT

The VHF-BASE antenna is designed to work well on any frequency between 134-184 MHz. For best performance, it must be cut-tuned to your specific frequency.

CUT TUNING

The radiating element **(A)**, can be tuned to specific frequencies by cutting it according to the chart below. To remove the radiating element for cut-tuning, remove the retaining set screw located above **(B)**.

Refer to the chart below for cut-tuning lengths **(L)**.

Note: It is always best to test with an SWR meter to ensure optimum tuning

ASSEMBLY

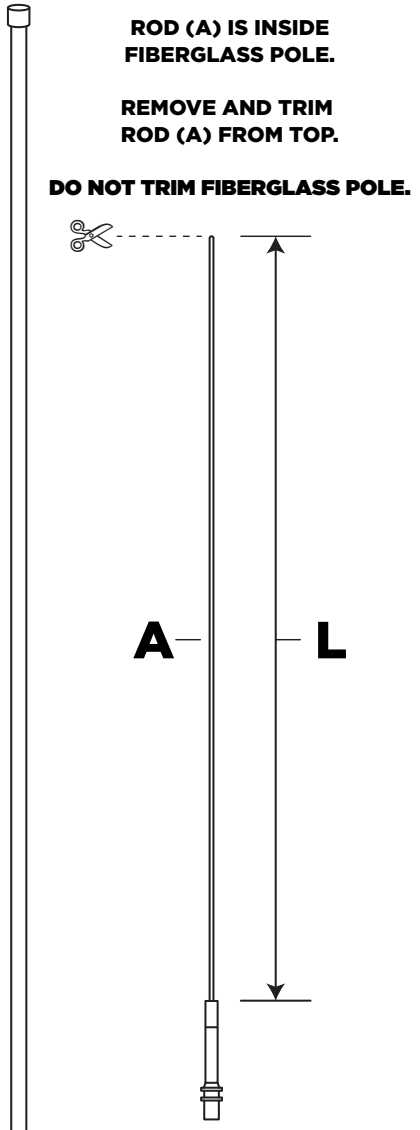
1. Put the nut and locking washer onto the ground plane radials **(1)**, then screw the three radials into the threaded holes on the metal antenna base **(2)** and hand-tighten. Secure radials by tightening locking nuts with wrench. Do not overtighten.

2. Secure the support tube **(3)** to mounting pole (not included) in desired location using brackets **(4)**, U-bolts **(5)**, locking washers, and locking nuts (locking washers and locking nuts are pre-affixed to U-bolts). Tighten them securely with a wrench. Adjust and secure brackets **(4)** to the support tube **(3)** with two of the supplied screws **(6)**.

3. Route antenna cable from the radio through the support tube **(3)** and screw the antenna cable connector (Male, PL-259) to the bottom of the antenna base **(3)** after removing the plastic cap.

Note: Reattach plastic cap when the antenna is disassembled to protect from dirt and debris.

4. Install the antenna onto the support tube **(3)**, align the threaded hole in the antenna base and the hole on the support tube **(7)** and secure with the largest of the supplied screws.



GAIN	4.5 dBd	**CONNECTOR**	SO-329
VSWR	Less than 1.5:1	**OMNIDIRECTIONAL**	5/8λ Design
FREQUENCY RANGE	134-184 MHz (VHF)	**LENGTH**	1.75 Meter
POLARIZATION	Vertical	**WEIGHT**	About 1 Kg
IMPEDANCE	50Ω	**MAX. WIND**	130 MPH (55m/sec)
POWER CAPACITY	200 Watts		

CUT TUNING CHART

FREQ.	IN. (L)	CM. (L)
134	64 1/8	163
136	63	160
141	60 1/4	153
146	57 7/8	147
151	55 1/2	141
156	53 3/4	156

FREQ.	IN. (L)	CM. (L)
160	51 15/16	132
165	50	127
170	48 7/16	123
174	47 1/4	120
179	45 5/8	116
180	44 1/2	113