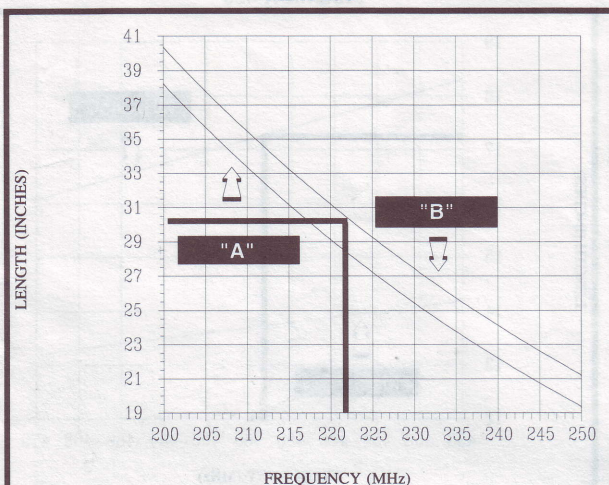


PART FOR YOUR OMNIDIRECTIONAL BASE STATION!

ONAL CHARTS AND TUNING INSTRUCTIONS ON BACK)

MBX-250



Example:

The dark line indicates that the approximate length "B" for an MBX-250 tuned to 221.5 MHz is 30-1/2 inches.

UHF MBS/MBX ASSEMBLY INSTRUCTION

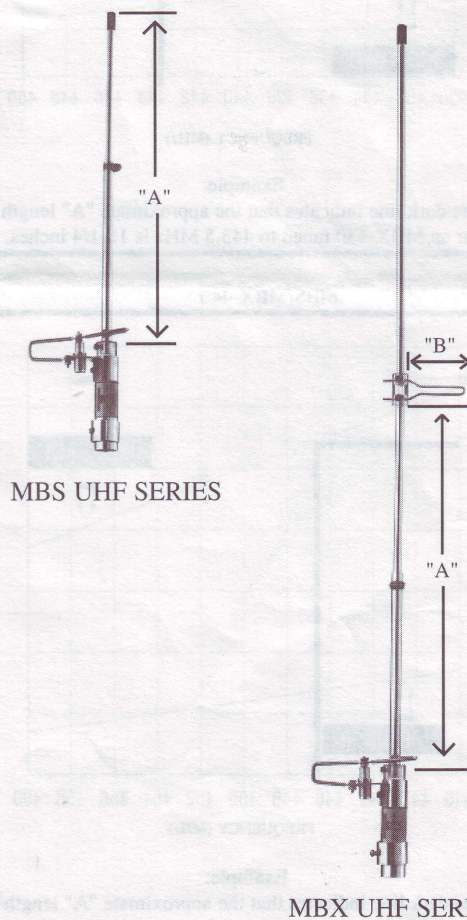
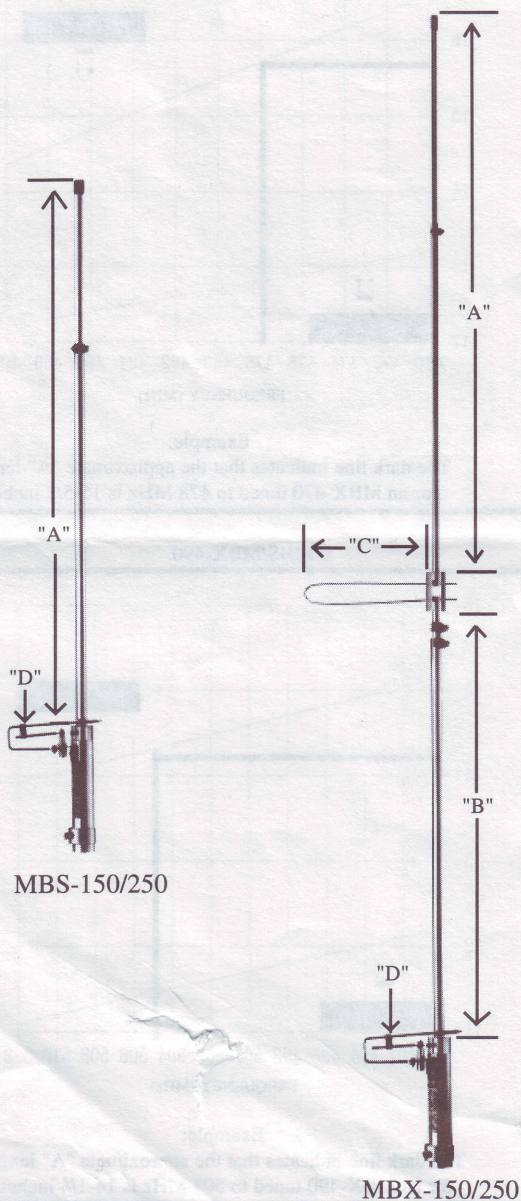
1. Slide the antenna sections together as shown in the picture.
2. Adjust the tubing length as shown on the tuning chart for your particular model and frequency.
3. Tighten all clamps securely, then mount the antenna in a suitable location.
4. Using a good quality VSWR bridge or in-line wattmeter mounted as close to the antenna feed connector as possible, check the reflected power. If high, adjust length "A" until the minimum VSWR is achieved. *For all models, B=2-7/8".*
5. Retighten all clamps after disconnecting the VSWR indicator. Be sure to tighten the antenna to the mast after securing the coaxial feed line to the antenna.

MOUNTING

Slide the antenna onto a vertical mast (up to 1" O.D.). Tighten the side bolt to hold the antenna in place.

UHF MBS/MBX SERIES

PART NUMBER	FREQUENCY RANGE
MBX-406	406-430 MHz
MBX-430	430-450 MHz
MBX-440	440-460 MHz
MBX-450	450-470 MHz
MBX-470	470-490 MHz
MBX-490	490-512 MHz



EXTREMELY IMPORTANT: SELECT THE CORRECT TUNING CHART (ADDITIONAL INFORMATION)

MBS/MBX-150 ASSEMBLY INSTRUCTIONS

The Maxrad base station is designed to give years of trouble free service. The antenna base and matching network are completely assembled. All that is required is the adjustment of the telescoping rod sections to the proper length for your operating frequency and then a fine tuning of the matching clamp "D".

MBS-150/250

Adjust length "A" according to the chart for your operating frequency. Then, using a quality VSWR bridge or through-line wattmeter, check the VSWR. If high, readjust the top tube length to achieve the minimum VSWR. If still high, readjust the matching clamp "D" to obtain the lowest VSWR.

MBX-150/250

1. Slide the 36" long 3/8" O.D. tube into the slotted end of the 1/2" O.D. phasing section. Adjust length "A" from the tuning chart for your frequency.
2. Insert the hairpin phasing section through the two pre-drilled holes in the insulator and adjust length "C" as shown on the tuning chart for your operating frequency. Tighten the clamp securely.
3. Slide the bottom non-slotted phasing assembly into the slotted end of the 5/8" O.D. tube up to the black line. Tighten the clamp securely.
4. Slide the completed assembly into the bottom 3/4" O.D. section and adjust the length "B" according to your frequency from the chart. Tighten the clamp securely.

FINAL TUNING

Being careful not to stand too close, check the antenna's reflected power. If high, adjust matching clamp "D" to achieve the minimum VSWR.

MOUNTING

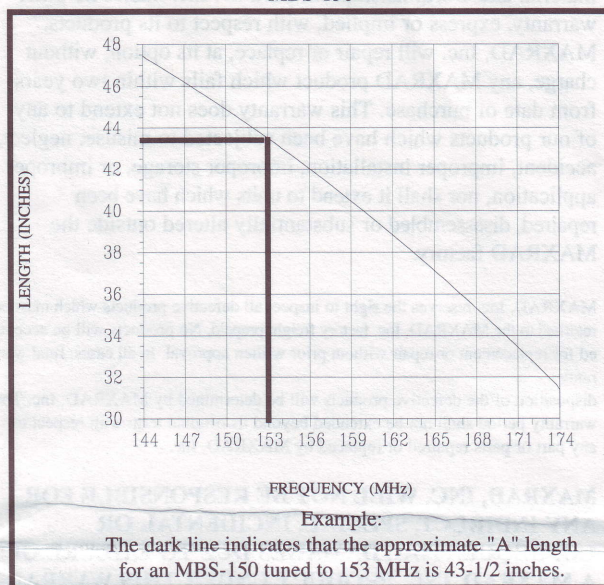
Slide the antenna onto a vertical mast (up to 1 1/4" O.D.). Tighten the bolt on the side of the antenna to keep it in place.

MBX-150	
FREQUENCY RANGE	DIMENSION "C" (INCHES)
144-148 MHz	8-1/2"
148-153 MHz	8-1/4"
153-158 MHz	8"
158-163 MHz	7-3/4"
163-168 MHz	7-1/2"
168-172 MHz	7-1/4"
172-174 MHz	7-1/8"
MBX-250	
200 MHz	6-1/2"
210 MHz	6-1/4"
220 MHz	6"
230 MHz	5-3/4"
240 MHz	5-1/2"
250 MHz	5-1/4"

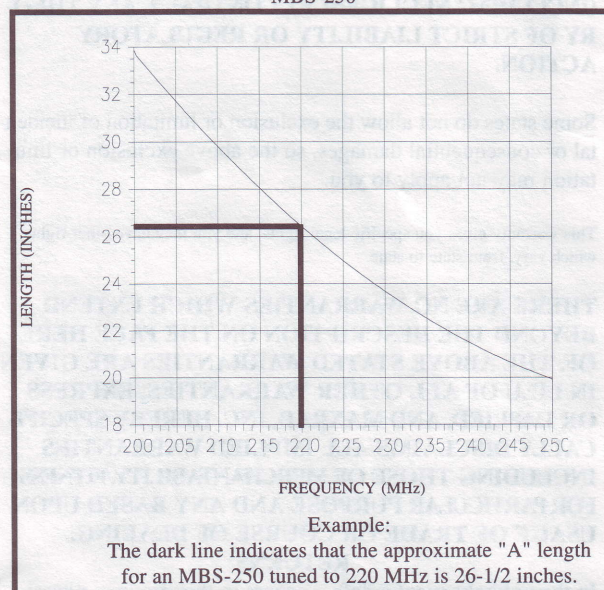
CAUTION

YOU COULD BE KILLED IF THIS ANTENNA COMES IN CONTACT WITH ELECTRIC POWER LINES OR IS BROUGHT IN PROXIMITY WITH A HIGH VOLTAGE ELECTRIC FIELD. FOR YOUR OWN SAFETY, USE EXTREME CAUTION WHEN INSTALLING THIS ANTENNA. KEEP AWAY FROM POWER LINES.

MBS-150



MBS-250



MBX-150

