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AV-5  
VHF Communications Antenna for General Aviation

Frequency Range: 118-137 MHz

If tuning of the antenna is required, cut the radiator and/or the radial rods according to the chart on the reverse side.

If the antenna is to be used over a range of frequencies, the element lengths should be chosen for mid-range or favor the element lengths for the most used or the frequency requiring the greatest range.

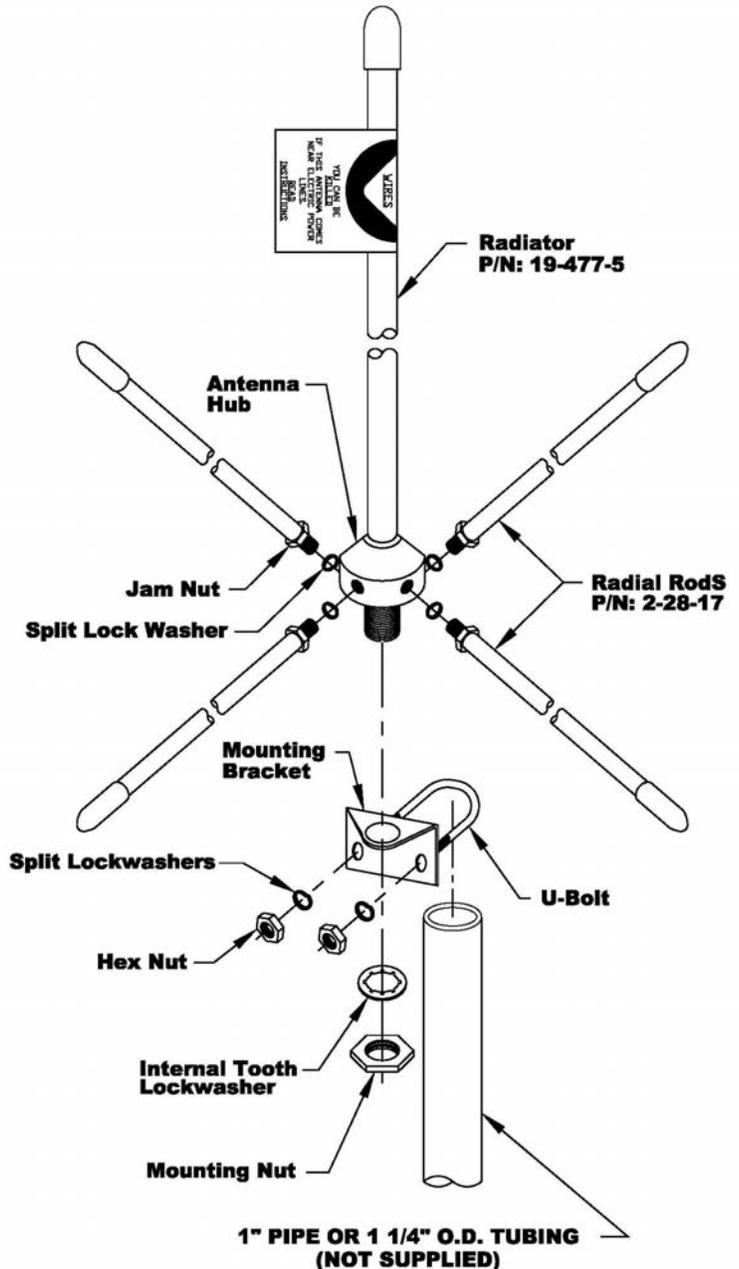
Installation Instructions

Antenna Assembly:

- 1.) Loosen the mounting nut from the antenna hub.
- 2.) Apply the synthetic lubricant provided to the threads of the (4) radial rods provided prior to assembly. This will protect from weather and ease future disassembly.
- 3.) Thread the provided #4-40 jam nuts onto the (4) radial rods and slide the lock washers on.
- 4.) Thread the (4) radial rods into the antenna hub and secure with jam nuts.
- 5.) Place vinyl caps on the end of each (4) radial rod.

Mounting the Antenna:

- 1.) Straddle the U-bolt provided around a 1" dia. pipe or up to a 1 1/4" O.D. tube (not supplied).
- 2.) Slide the mounting bracket and (2) lock washers provided over the thread studs of the U-bolt and secure with the (2) 1/4-20 hex nuts provided.
- 3.) Remove the mounting nut and internal tooth lock washer from the connector of the antenna hub.
- 4.) Insert antenna into mounting hole in bracket. Replace the lock washer and mounting nut back onto the connector of the antenna hub.
- 5.) Attach "DANGER" label provided to a plainly visible part of the base or the supporting structure.
- 6.) Secure a cable with the appropriate connectors (not supplied) to the mounting pipe with a strap or plastic tape to avoid any cable strain on connector.

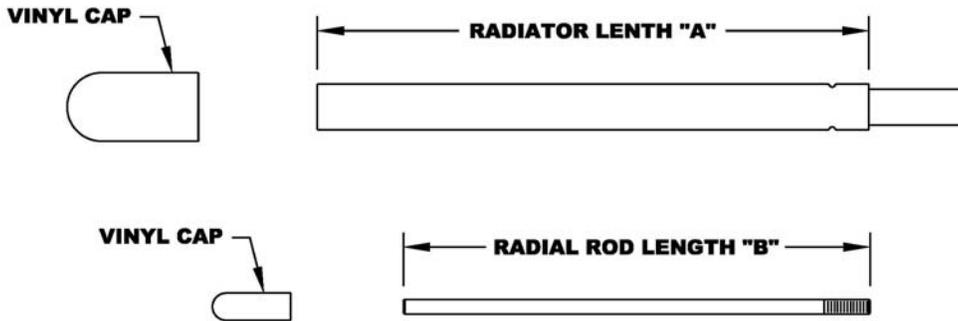
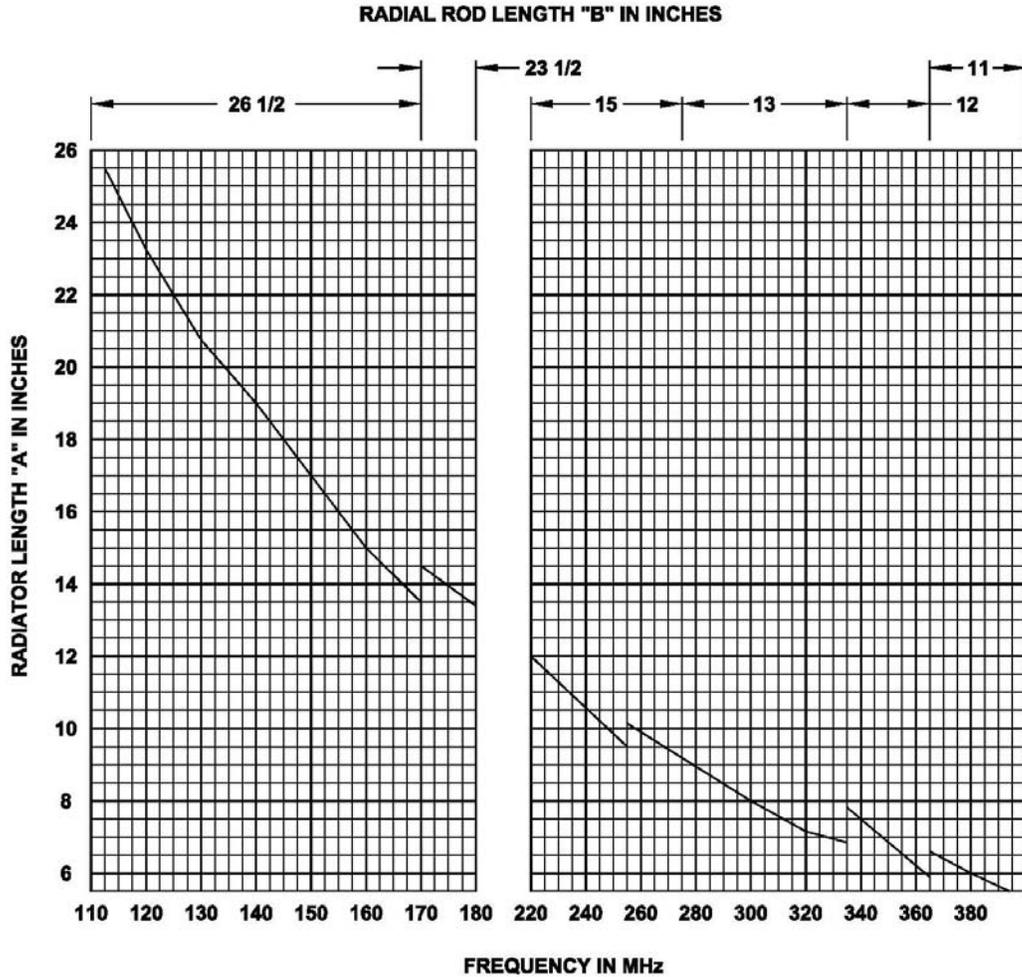


## Cutting Chart for the Radiator and Radial Rods

All measurements should be made with vinyl caps removed.

The lengths on the chart are approximate. For finer tuning, an In-Line Wattmeter should be used if antenna is to be used for transmitting.

After final adjustments, replace vinyl caps onto the radiator and radial rods.



**TUNING ADJUSTMENT TABLE**

FREQUENCY	RADIATOR LENGTH "A"	RADIAL ROD LENGTH "B"
406-420 MHz	5 5/8"	10"
450-470 MHz	5"	8 1/2"
470-488 MHz	4 15/16"	7 3/4"
488-512 MHz	4 5/8"	7 3/4"