

27-2200-3 Revision C, May 2016

**High Band Ground Plane Antenna
ASP7A**

GENERAL INFORMATION

This antenna is supplied to operate satisfactorily within the frequency range(s) specified on the carton label. Some models require cutting of the radiator and/or radials in accordance with the charts located on page 2. 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

1. Select antenna location and route cable from set to antenna.
2. Loosen mounting nut and assemble radials to hub as shown in Figure 1. Tighten jam nuts and lockwashers against hub to secure the radials. Retighten mounting nut.
3. Connect cable to antenna (accepts PL-259). Some models are supplied with cable and connector for the antenna end. Radio end connector is not supplied.
4. Mount antenna onto 1/2" to 3/4" pipe, or up to 1-3/8" O.D. tubing (not supplied) with "U" bolt, lockwashers and hex nuts provided.
5. Secure cable to mounting pipe with strap or plastic tape to avoid strain on cable connections.

The use of a PTFE or similar lubricant on the threaded portions of the antenna, prior to assembly, will protect from weather and ease future disassembly.

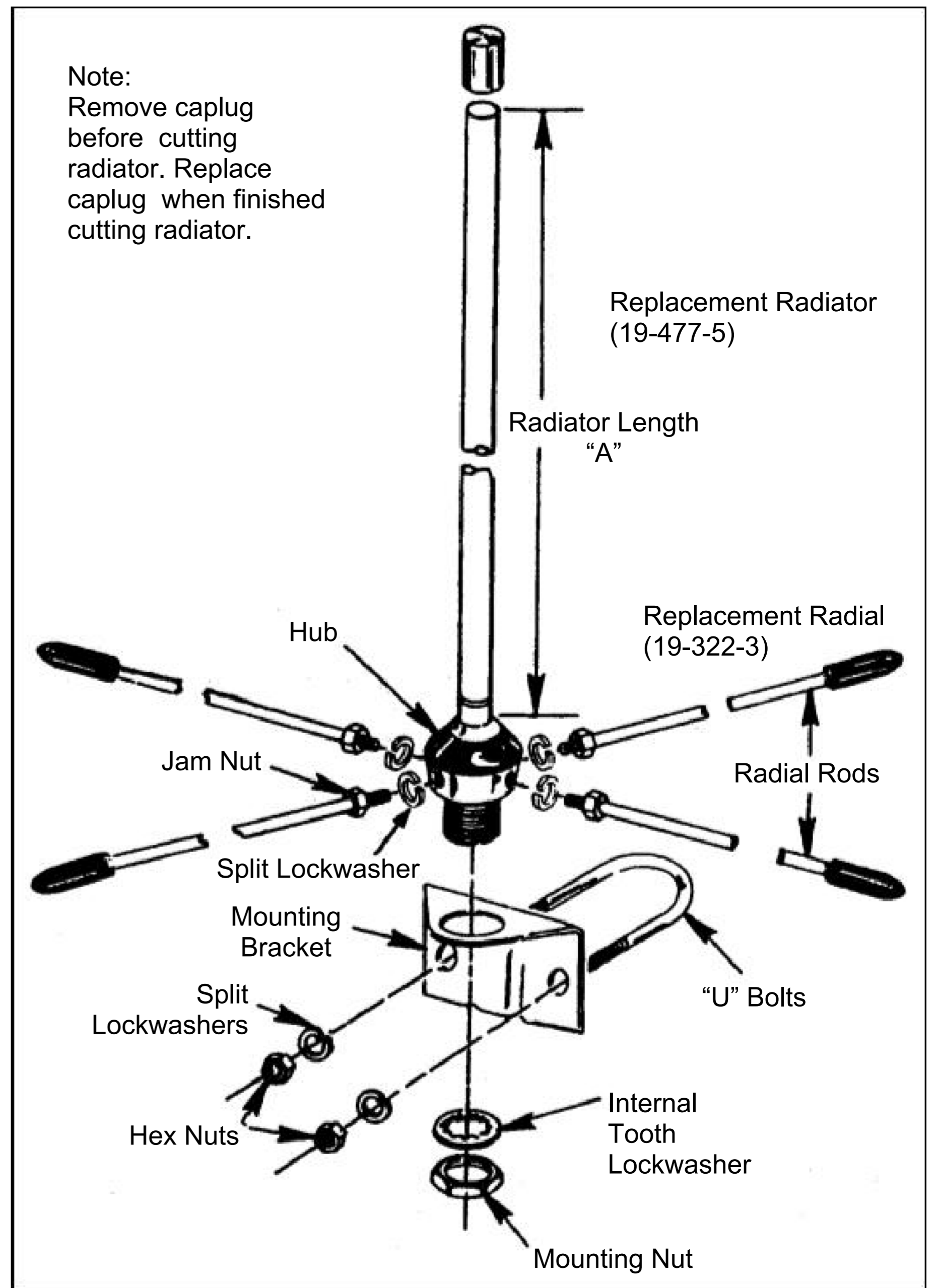


Figure 1. Assembling the Antenna.

SAFETY NOTICE

The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. CommScope installation instructions are written for such installation personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

CommScope disclaims any liability or responsibility for the results of improper or unsafe installation practices.

It is recommended that transmit power be turned off when the field installation is performed. Follow all applicable safety precautions as shown on this page.

(continued on page 2)



Do not install near power lines. Power lines, telephonestructures, and guywires look the same. Assume any wire or line can electrocute you.

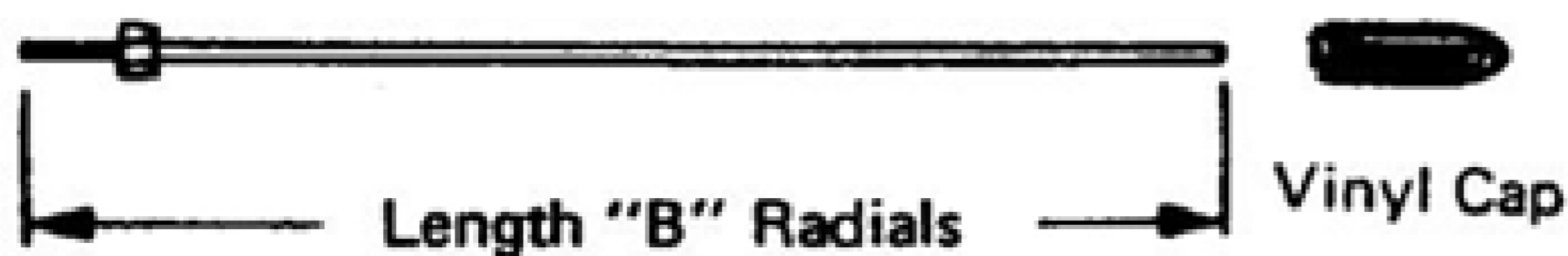
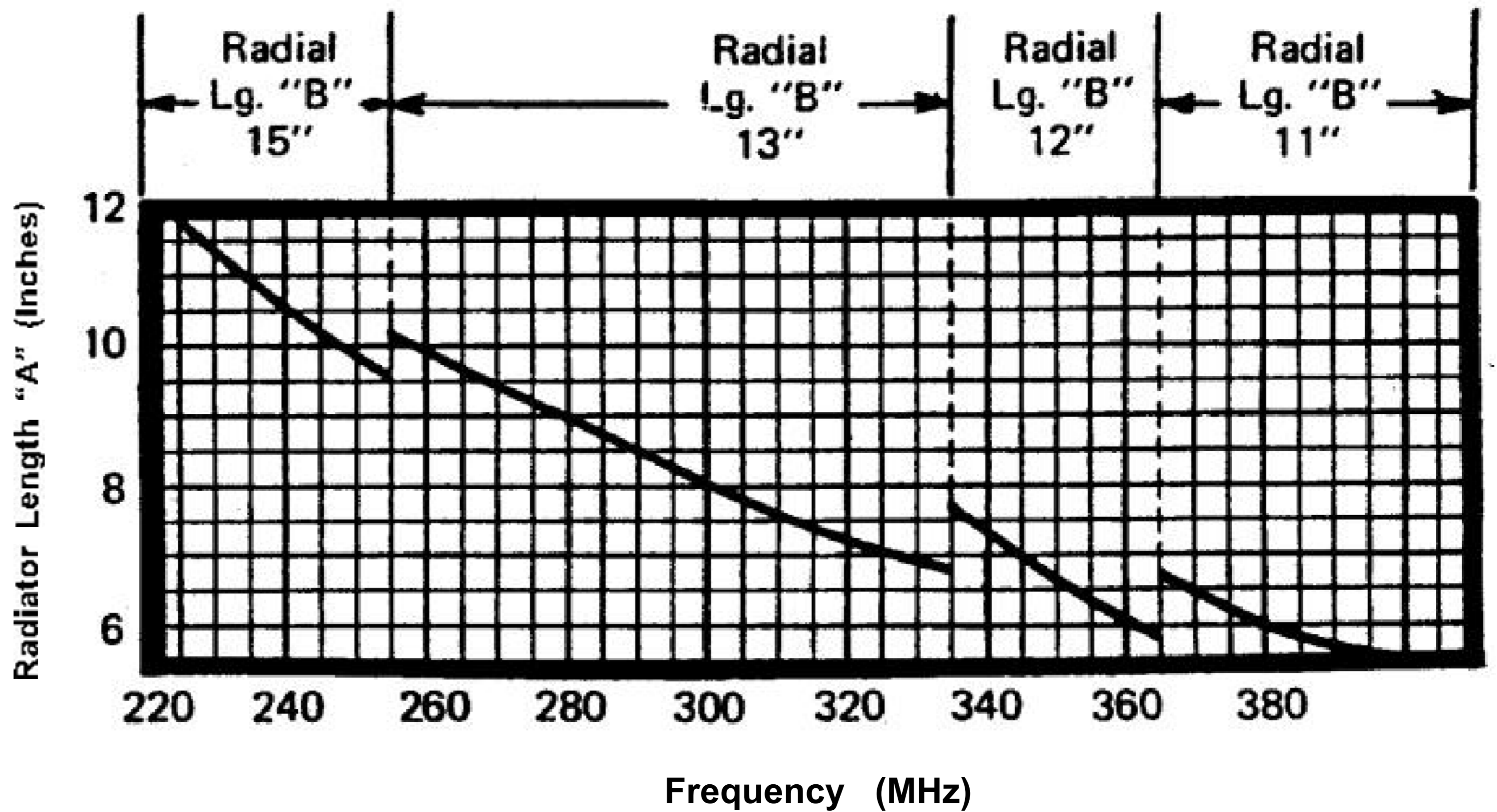
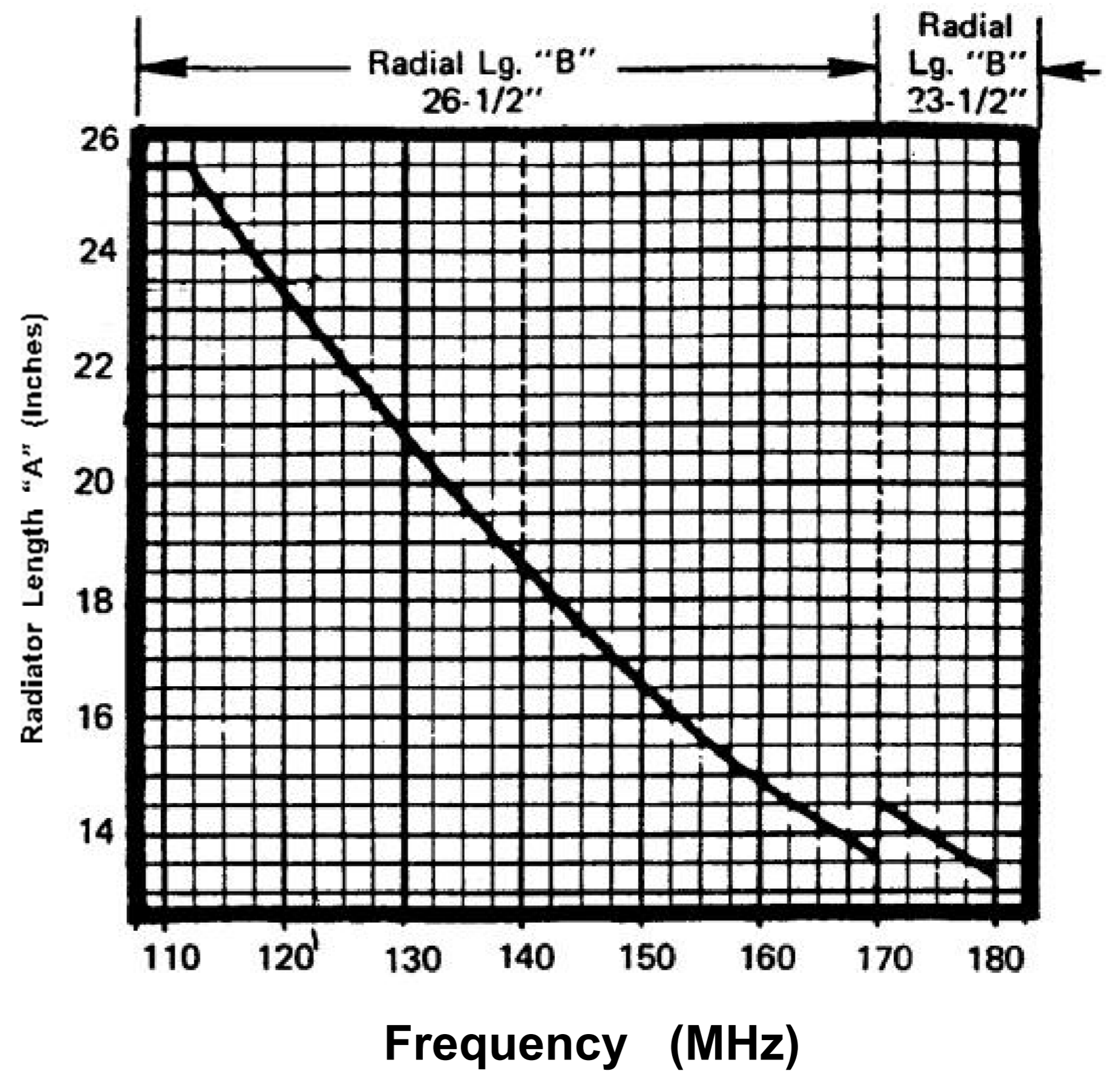


Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.



Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.

Lengths on chart are approximate. For finer tuning, use a VSWR bridge if antenna is to be used for transmitting.



Remove vinyl cap before measuring and cutting. Slide vinyl cap back on after cutting.

TUNING ADJUSTMENT TABLE		
Frequency (MHz)	Radiator Length "A" (Inches)	Radial Length "B" (Inches)
406-420	5-5/8	10
450-470	5	8-1/2
470-488	4-15/16	7-3/4
488-512	4-5/8	7-3/4