

DECADE LGP-FM OMNI-DIRECTIONAL GROUNDPLANE ANTENNA INSTRUCTIONS

1 - ASSEMBLY INSTRUCTIONS

1. Insert the 3 solid ground elements in the base assembly and tighten with the supplied allen screws.
2. wrap the rubber insulator sheet around the mast where the base of the antenna will be mounted and secure it with the 2 tie wraps. The outside diameter of the mounting mast must be between 1" to 1 1/2".
3. Install the antenna on the rubber insulated section of the mast using the U-bolt. The base of the antenna must be at least 60" above the roof or tower-top.

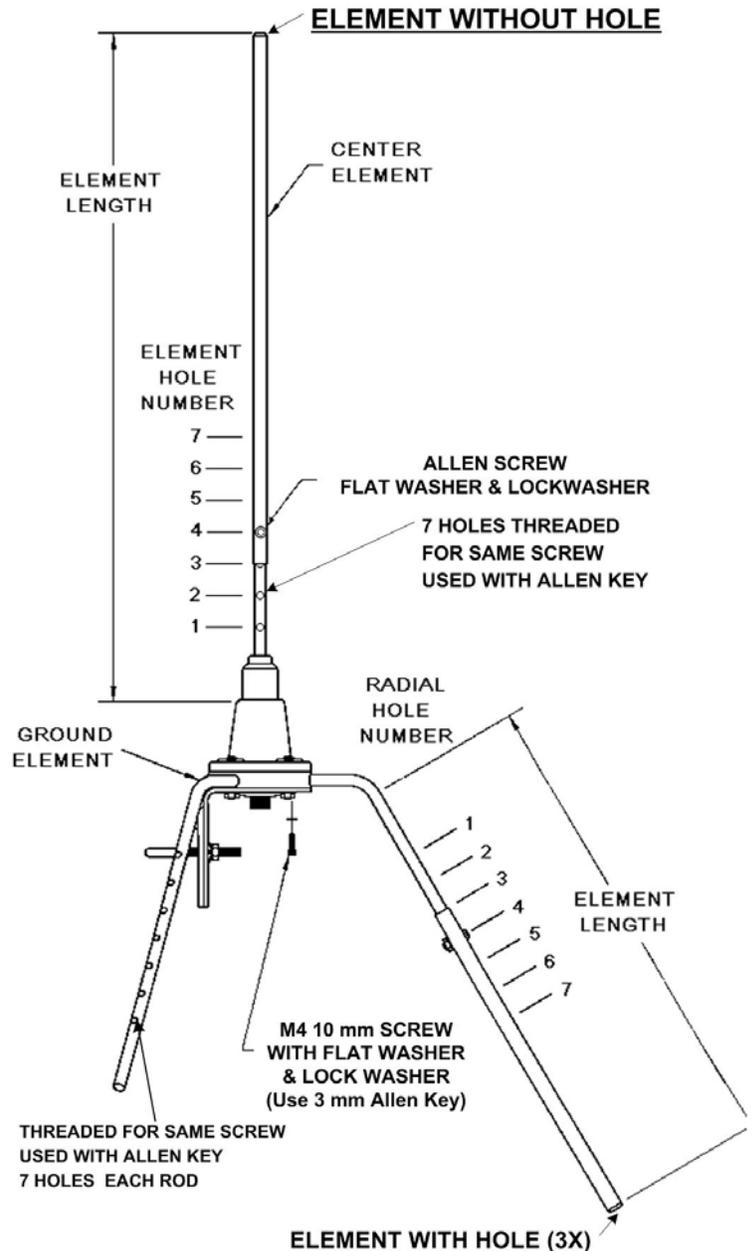
2 - FREQUENCY SETTING

1. From the chart below, select the hole number according to the transmitting frequency. The hole number is the same for each of the 4 elements.
2. Slide the 4 sleeves over the 4 solid elements, align the hole in the sleeves with the proper hole in the solid elements and tighten with the supplied allen screws, washers and nuts. The center element sleeve doesn't have a hole in its plastic cap.

HOLE no.	FREQUENCY RANGE (MHz)
7	87.9 to 91.3
6	91.5 to 95.1
5	95.3 to 97.5
4	97.7 to 101.3
3	101.5 to 104.5
2	104.7 to 107.9
1	NOT USED

3 - CONNECTING THE ANTENNA TO THE TRANSMITTER

1. To connect the antenna to the transmitter, use only a Decade RG-8 or RG-58 coaxial cable equipped with a UHF-male (PL-259) connector and a ferrite beads common-mode choke on the antenna side.
2. If your coaxial cable is not equipped with a ferrite beads common-mode choke, install an adequate number of snap-on ferrite beads as close as possible to the antenna side UHF-male (PL-259) connector. Leave no space between each ferrite bead. These snap-on ferrite beads are available from Decade Transmitters. Please contact us and specify your coaxial cable type (RG-8 or RG-58).
3. We strongly recommend using a lightning arrestor mounted on the mast as close as possible to the antenna. The mast must be grounded to earth for proper operation of the lightning arrestor. Use a short length of coaxial cable between the antenna and the lightning arrestor. This short cable must also be equipped with a ferrite beads common-mode choke. Both the lightning arrestor and short coaxial cable are available from Decade Transmitters.



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