NR22L
2m Mobile Antenna

Instruction Sheet

The NR22L is a high performance mono-band, 2-5/8 wavelength mobile antenna, optimized for the 144-148 MHz amateur band. The NR22L yields 6.5 dB gain from a Mobile antenna. Use Diamond Antenna model K400C or K600M Trunk Mount, for best performance.

Specifications

- **FREQUENCY:** 144-148 MHz
- **GAIN:** 6.5 dB
- **POWER:** 100 Watts
- **IMPEDANCE:** 50 Ohms (Nominal)
- **VSWR:** 1.5:1 (Nominal)
- **ELEMENT PHASING:** 2-5/8 Wave
- **LENGTH:** 96.9”
- **WEIGHT:** 1.1 lbs. (500g)
- **MOUNT:** UHF MALE
- **WARRANTY:** 1 Year against defects in material or workmanship.

**RECOMMENDED MOUNTS:** K400C or K600M

**Installation Instructions**

1. Remove antenna from package and inspect contents to insure it is complete.
2. Choose desired mounting location to insure maximum strength of mount, and best performance of antenna.
3. Assemble upper whip element #12201 to Phase inductor #12202.
4. Install antenna on vehicle. With quality VSWR meter, check VSWR for proper antenna tuning. The NR22L is pretuned and should require no additional tuning. However, choice of antenna mount and location should take into consideration the antenna’s size and the torque imparted to its mount. Mounts of sufficient strength are Diamond models K400C and K600M.

**NOTE:** In some installations it may be desirable to trim a small amount from each element. Trimming 1/4” increments will have the effect of raising the operating frequency. Measure VSWR at lowest and highest operating frequency to optimize range.

5. Tighten setscrews. Recommend using removable Loctite Threadlocker #242 or similar product to insure proper fastening of setscrews.

**NOTE:** Not recommended for Magnet Mounts.

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Part # | Part Description
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12201 | Upper Whip Element
12202 | Phase Inductor
12203 | Lower Whip Element
12204 | Omnidirectionally tiltable Whip structure section
12205 | Impedance matching section
B-05 | Set Screw
B-03 | Hexagonal Wrench

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