

# Installation Instruction

## Model MO-4

### TUNING

The MO-4 is designed for use with Hustler mobile H.F. resonators. The short size of the mast allows greater flexibility in choosing a mount location. The MO-4 is ideal for owners of large vehicles such as trucks, vans and recreational vehicles. The performance of the MO-4 is slightly less than that of our full size 54" mast, (models MO-1, MO-2 and MO-3) but is often offset by the better omni-directional characteristics achieved by mounting the antenna near the center of the vehicle. The MO-4 is constructed of a solid stainless steel rod with 3/8-24 fittings on both ends. Due to the weight of the MO-4 it is necessary to use a high quality mount.

### CAUTION

installing the MO-4 on a mount that is not designed for heavy antennas can create a safety hazard to you and others. Your warranty will also be voided. If you have a question about a particular mount, consult your dealer.

### MOUNTING

The following mounts are suggested for use with the MO-4:

|              |                                                             |
|--------------|-------------------------------------------------------------|
| Ball Mount   | Hustler C-32, Hustler SSM-2<br>Hustler 1C-53, Hustler 1C-55 |
| Trunk Lip    | Hustler TLM                                                 |
| Rain Gutter  | Hustler GCM-1, use with standard size resonators only       |
| R.V. Mount   | Hustler RVM, use with standard size resonators only         |
| Trunk Groove | Hustler TGM-1, use with standard size resonators only       |
| Mirror Mount | Hustler D-322, Hustler D-321                                |
| Magnet Mount | Hustler MBM, use with standard size resonators only         |
| Bumper Mount | Not recommended                                             |

The MO-4 is compatible with all of our H.F. mobile accessories:

|       |                                                         |
|-------|---------------------------------------------------------|
| VP-1  | Tri-band adapter (not recommended for MBM magnet mount) |
| RSS-2 | Spring                                                  |
| C-29  | Spring                                                  |
| C-30  | Spring                                                  |
| QD-2  | Quick disconnect                                        |

### CAUTION

Use common sense when choosing a mount and accessories. Hustler super resonators are large and if you intend to use the VP-1 adapter and three super resonators you will need to use a ball mount. If you use a smaller mount such as the GCM-1 or TGM-1 you should only use standard resonators and should not use the VP-1 to tri-band since the total weight and wind load may cause the mount to fail.

The MO-4 is supplied with three extra 26 inch tip rods. You may need these rods to tune resonators for 10, 11, 12, 17 or 20 meters since resonators for those bands are supplied with a tip rod that may be too short. The tip rod supplied with 30, 35, 40, 50 and 80 meter resonators should be long enough. The following tip rod lengths are calculated by measuring the length of the exposed, or visible portion of the rod. Allow two additional inches for insertion into the tip rod receptacle.

Actual required rod length might vary with the mount, installation, etc. To raise the resonant frequency, shorten the tip rod. (over)



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## APPROXIMATE EXPOSED TIP ROD LENGTH USING MO-4 MAST

### STANDARD RESONATORS

### SUPER RESONATORS

80 meters 34 ½ inches  
50 meters 27 ½ inches  
40 meters 27 ½ inches  
30 meters 14 ½ inches  
35 meters 40 ½ inches  
20 meters 14 ½ inches  
17 meters 21 ½ inches  
15 meters 15 ½ inches  
12 meters 16 ½  
10 meters 11 ½ inches

80 meters 23 inches  
40 meters 26 inches  
20 meters 16 ½ inches  
15 meters 15 ½ inches  
10 meters 17 ½ inches

### SPECIAL APPLICATIONS

Two MO-4 masts can be used to create a shortened dipole for apartment, condominium or field day use. Use matching resonators (such as two RM-10 resonators) and attach the feed line braid to one mast and the center lead to the other. You can also use two VP-1 adapters to form a tri-band dipole with appropriate resonators.

### NEW-TRONICS ANTENNA CORPORATION LIMITED WARRANTY

New-Tronics Antenna Corp. warrants its products to be free of defects in material and workmanship and extends this warranty under intended use and normal service conditions to the original owner for a period of one year from the date of purchase. This warranty does not apply to any product that has been repaired or altered in any manner and is void for any damage due to accident, neglect unreasonable use, improper installation, or any other cause not arising out of defects in material or workmanship.

The obligations of New-Tronics Antenna Corporation are limited to repairing or replacing, at its option, any product or part that is returned to the factory; all transportation charges prepaid, accompanied by proof of purchase, and upon examination reveals to have been defective within the warranty period stated above.

New-Tronics Antenna Corp. does not assume nor is any person authorized to assume for it, any obligations other than that herein stated.

Any implied warranties, including but not limited to fitness for a particular purpose, is limited in duration for the above one year period. New-Tronics Antenna Corp. shall not be liable under this warranty, or any implied warranty, for loss of use of the product or for other consequential loss or damage incurred by the purchaser. Some states do not allow the exclusion or limitation of implied warranties of consequential damages and so the above exclusions or limitations may not apply in those states. This warranty gives you special legal rights and you may have other rights that vary from state to state.