

WARRANTY

A. General Warranty. PCTEL, Inc ("PCTEL") represents and warrants that the Products furnished hereunder shall be free from defects in material and workmanship for a period of two (2) years from the date of shipment by PCTEL under normal use and operation. PCTEL sole and exclusive obligation under the foregoing warranty shall be to repair or replace, at its option, any defective Product that fails during the warranty period. The expense of removal and reinstallation of any item is not included in this warranty. THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OR TRADE PRACTICE WITH RESPECT TO THE PRODUCTS. Repair or replacement in the manner provided herein shall be the sole and exclusive remedy of Buyer for breach of warranty and shall constitute fulfillment of all liabilities of PCTEL with respect to the quality and performance of the Products. PCTEL reserves the right to inspect all defective Products (which must be returned by Buyer to PCTEL factory freight prepaid). No Products will be accepted for replacement or repair without obtaining a Return Materials Authorization (RMA) number from PCTEL Customer Service [by telephone: 630.372. 6800 or email: antenna.techsupport@pctel.com]. Products returned without an RMA number will not be processed and will be returned to Buyer freight collect. PCTEL shall have no obligation to make repairs or replacement necessitated by catastrophe, fault, negligence, misuse, abuse, or accident by Buyer, Buyer's customers or any other parties. The warranty period of any repaired or replaced Product shall not extend beyond its original term.

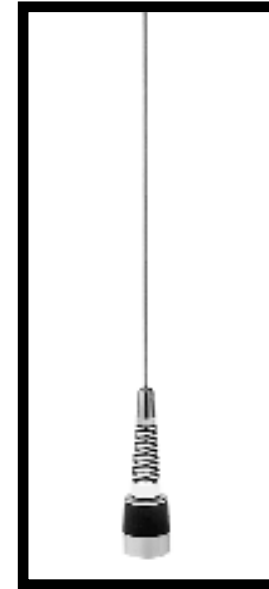
B. Warranty Conditions. The foregoing warranty shall apply only if: (i) the Product has been properly installed and used at all times in accordance, and in all material respects, with the applicable Product documentation; (ii) no modification, alteration or addition has been made to the Product by persons other than PCTEL or PCTEL's authorized representatives or otherwise approved by PCTEL; and (iii) the Product has not been subjected to misuse, neglect or unusual physical, electrical or electromagnetic stress, or some other type of accident. C. Disclaimer. PCTEL DOES NOT WARRANT THAT THE OPERATION OF THE PRODUCTS IS ERROR-FREE OR THAT OPERATION WILL BE UNINTERRUPTED. IN NO EVENT SHALL PCTEL BE RESPONSIBLE FOR DAMAGES OR CLAIMS OF ANY NATURE OR DESCRIPTION RELATING TO (i) SYSTEM PERFORMANCE, INCLUDING COVERAGE, (ii) BUYER'S SELECTION OF PRODUCTS FOR BUYER'S APPLICATION AND/OR (iii) FAILURE OF PRODUCTS TO MEET GOVERNMENT OR REGULATORY REQUIREMENTS.

RETURNS

In the unlikely event a defect occurs in this product, please work through the dealer or distributor from which this product was purchased. PCTEL, Inc. provides complete service and support to all of its dealers and distributors.



**471 Brighton Drive
Bloomington, IL 60108**



WIDEBAND VHF MOBILE ANTENNAS INSTALLATION INSTRUCTIONS

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Part #: MIS-WIDEBANDHD Rev A
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ANTENNA LOCATION

Maximum performance will be attained by placing the antenna at the center of the vehicle roof or over some other metal ground plane. However, satisfactory results can also be attained in other locations such as the automobile fender or trunk deck.

CARE AND MAINTENANCE

In order to maximize both the performance and the appearance of your antenna, it is recommended that you treat it in the same manner you do your car. Periodic cleaning and a quality car wax may be used to help protect the finish and extend the life of the antenna.

CUTTING THE ROD

Each antenna is supplied with a rod ready for use at the lowest frequency. To adjust the rod for other frequency ranges, **always cut from the bottom of the rod**. Cutting the rod may be easier using the edge of a file or grinding wheel to score the rod around its circumference. Then snap off with a pair of pliers.

It is highly recommended that the rod be cut a bit longer than indicated on the chart. This way 1:1 VSWR can be approached from the long side of the rod.

REFLECTED POWER

Normal VSWR will be less than 2.0:1. Higher values indicate incorrect rod length or faulty mounting conditions. Check the rod length by moving a hand toward the base matching coil. If the reflected power increases, the rod is too long. If the reflected power decreases to a minimum, then rises, the rod is too short.

ROD CUTTING TABLE

The MWV1322HDS (with spring) and MWV1322HD (no spring) heavy duty wideband antennas can be tuned to any frequency in the 132-174 MHz VHF band. Suggested rod lengths and frequency response:

FREQUENCY	ROD LENGTH WITHOUT SPRING	ROD LENGTH WITH SPRING
132-150 MHz	37 5/8"	33 7/8"
138-160 MHz	34 3/4"	31 1/8"
142-170 MHz	33"	29 1/4"
148-174 MHz	32"	28 1/4"

