

MFJ

10 Meter Vertical Antenna

Model MFJ-1790



INSTRUCTION MANUAL

CAUTION: Read All Instructions Before Operating Equipment

MFJ ENTERPRISES, INC.

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Introduction

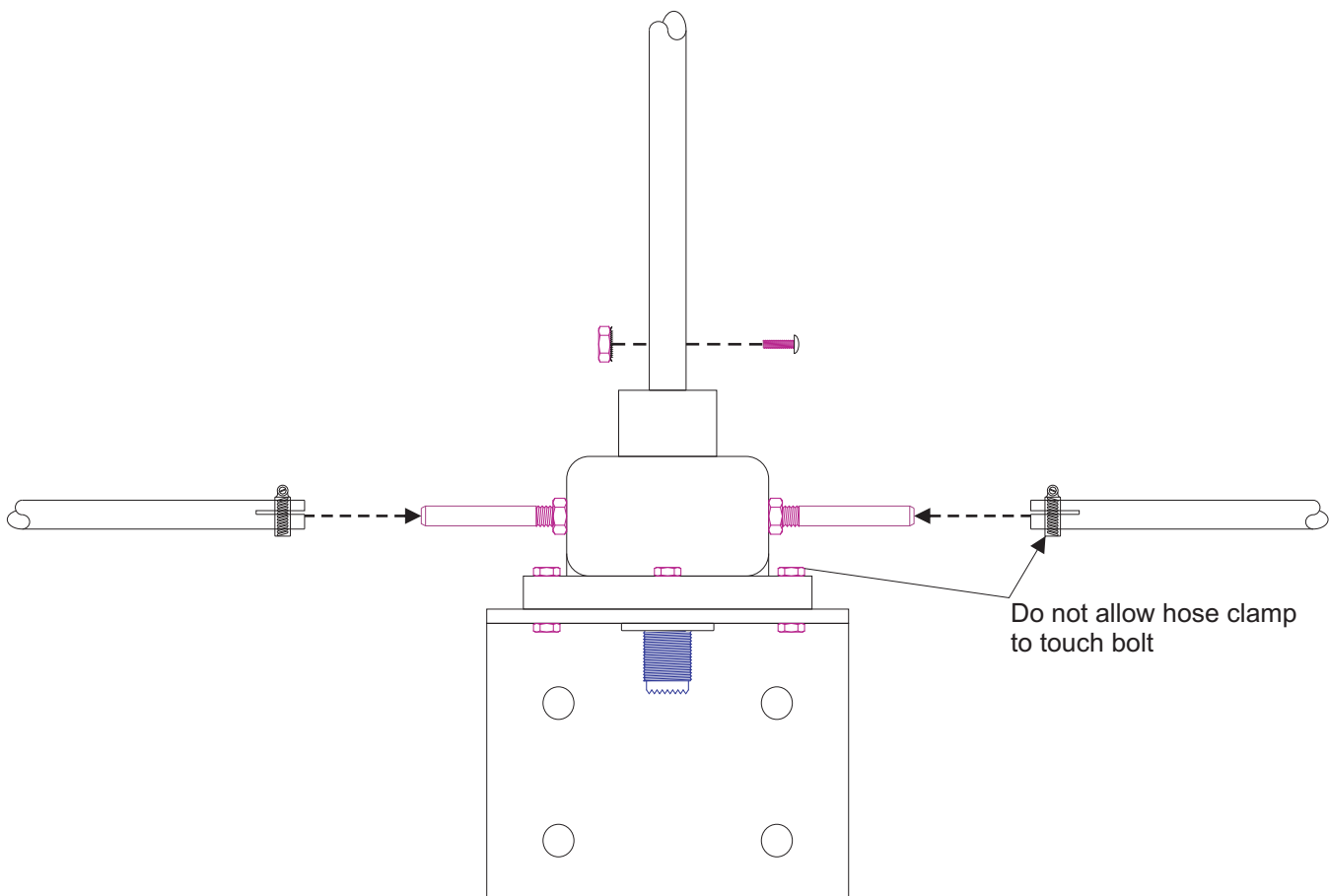
The MFJ-1790 is a simple lightweight off center fed vertical antenna. It's simple construction and lightness allow for easy installation almost anywhere. The single band design is engineered for maximum efficiency and low radiation angle resulting in strong DX signals.

What's in the box

Base assembly with main radiator.
Two radial tubes with slotted ends
Main radiator extension.
Parts pack with end caps hose clamps and U-bolt.

How to assemble the antenna

The antenna may be assembled on the ground or using supports such as saw horses. Since there are only two radials, the antenna will lie flat on the ground if desired. Slide one hose clamp onto the end of each radial that has a slot, do not tighten the clamp. Slip each radial over the 5/16 rod extending from the base all the way to the bolt. Tighten the clamp making sure that no part of the clamp touches the base bolt below it. Install the 7/16 radiator using the supplied 4-40 screw to attach the tube to the base. Slide the tube over the rod extending from the base insulator and align the hole with the one in the tube. Insert the 4-40 screw and tighten.



Install the top section of the radiator using the 3/8 tube that does not have the slot. Slide the tube inward until the total length of the vertical element is 11 feet. This is a general length and should get the antenna close to 28.350MHz. Final tuning should be done with an antenna analyzer or swr meter. Radiator length may vary slightly depending upon your mounting location. Push the tube caps over the ends of the elements and test the antenna before mounting in it's final location. Mount the antenna at least 3 feet from the ground in a vertical position for testing. It will be much easier to tune the antenna on the ground than to attempt tuning at a higher position.

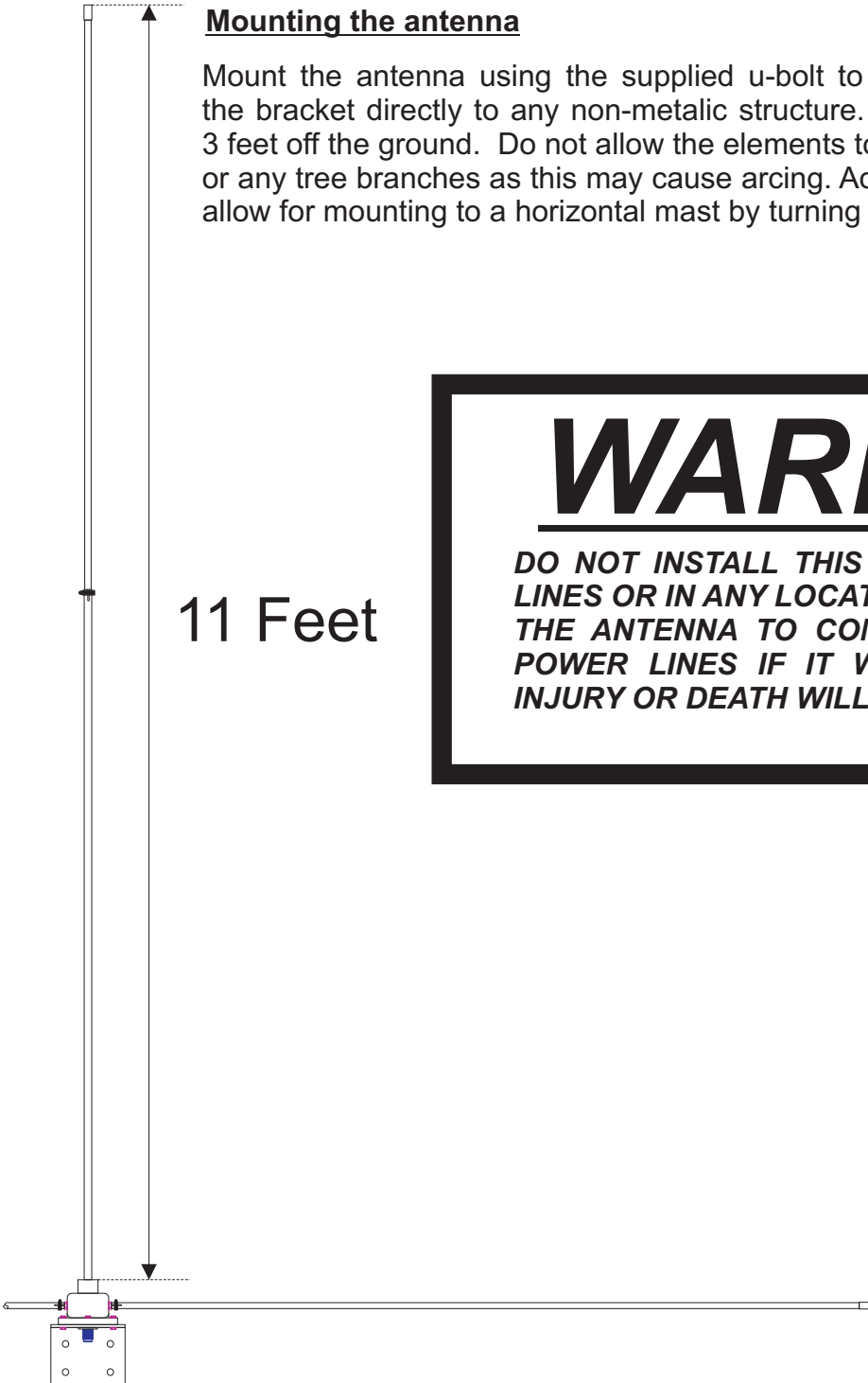
Mounting the antenna

Mount the antenna using the supplied u-bolt to your mast or you may secure the bracket directly to any non-metalic structure. The antenna must be at least 3 feet off the ground. Do not allow the elements to contact the mounting structure or any tree branches as this may cause arcing. Additional holes in the bracket will allow for mounting to a horizontal mast by turning the u-bolt sideways.

WARNING

DO NOT INSTALL THIS ANTENNA NEAR POWER LINES OR IN ANY LOCATION THAT WOULD CAUSE THE ANTENNA TO COME INTO CONTACT WITH POWER LINES IF IT WERE TO FALL. SEVER INJURY OR DEATH WILL OCCUR.

11 Feet



FULL 12 MONTH WARRANTY

MFJ Enterprises, Inc. warrants to the original owner of this product, if manufactured by MFJ Enterprises, Inc. and purchased from an authorized dealer or directly from MFJ Enterprises, Inc. to be free from defects in material and workmanship for a period of 12 months from date of purchase provided the following terms of this warranty are satisfied.

1. The purchaser must retain the dated proof-of-purchase (bill of sale, canceled check, credit card or money order receipt, etc.) describing the product to establish the validity of the warranty claim and submit the original of machine reproduction or such proof of purchase to MFJ Enterprises, Inc. at the time of warranty service. MFJ Enterprises, Inc. shall have the discretion to deny warranty without dated proof-of-purchase. Any evidence of alteration, erasure, or forgery shall be cause to void any and all warranty terms immediately.
2. MFJ Enterprises, Inc. agrees to repair or replace at MFJ's option without charge to the original owner any defective product under warrantee provided the product is returned postage prepaid to MFJ Enterprises, Inc. with a personal check, cashiers check, or money order for **\$7.00** covering postage and handling.
3. MFJ Enterprises, Inc. will supply replacement parts free of charge for any MFJ product under warranty upon request. A dated proof of purchase and a **\$5.00** personal check, cashiers check, or money order must be provided to cover postage and handling.
4. This warranty is **NOT** void for owners who attempt to repair defective units. Technical consultation is available by calling (601) 323-5869.
5. This warranty does not apply to kits sold by or manufactured by MFJ Enterprises, Inc.
6. Wired and tested PC board products are covered by this warranty provided **only the wired and tested PC board product is returned**. Wired and tested PC boards installed in the owner's cabinet or connected to switches, jacks, or cables, etc. sent to MFJ Enterprises, Inc. will be returned at the owner's expense unrepared.
7. Under no circumstances is MFJ Enterprises, Inc. liable for consequential damages to person or property by the use of any MFJ products.
8. **Out-of-Warranty Service:** MFJ Enterprises, Inc. will repair any out-of-warranty product provided the unit is shipped prepaid. All repaired units will be shipped COD to the owner. Repair charges will be added to the COD fee unless other arrangements are made.
9. This warranty is given in lieu of any other warranty expressed or implied.
10. MFJ Enterprises, Inc. reserves the right to make changes or improvements in design or manufacture without incurring any obligation to install such changes upon any of the products previously manufactured.
11. All MFJ products to be serviced in-warranty or out-of-warranty should be addressed to **MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, Mississippi 39759, USA** and must be accompanied by a letter describing the problem in detail along with a copy of your dated proof-of-purchase.
12. This warranty gives you specific rights, and you may also have other rights which vary from state to state.



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