



## Instruction Manual HF Mobile

### Ham-tenna™ Whips

Power Rated at 250 Watts P.E.P.

These HF antennas are designed to operate over the phone portion of HF bands with a typical VSWR of 2:1.

MFJ offers the following HF Mobile Ham-tenna™ whips:

MFJ Model No.	Band	MFJ Model No.	Band
MFJ-1675T	75 Meter	MFJ-1615T	15 Meter
MFJ-1640T	40 Meter	MFJ-1612T	12 Meter
MFJ-1630T	30 Meter	MFJ-1610T	10 Meter
MFJ-1620T	20 Meter	MFJ-1606T	6 Meter
MFJ-1617T	17 Meter	MFJ-1602T	2 Meter

#### Tuning Instructions:

Insert the whip into the lower section ferrule about four inches and tighten the set screw. Screw the ferrule/whip assembly into the lower fiberglass section. Install a VSWR meter at the transceiver and apply 10 or 25 watts of power. Adjust the VSWR meter and output frequency for lowest VSWR reading, indicating resonance.

If resonant frequency is higher than desired, loosen the set screw and extend the top whip until the desired resonant frequency is found. If resonant frequency is too low, loosen the set screw and adjust the whip further into the lower section.

For best results, adjustments should be made in small increments.

**Caution:** If required, cut off the bottom of the whip to ensure it does not extend down into the coil. Failure to observe this precaution will cause extreme heat damage and void the warranty.

**VSWR:** At resonance, the VSWR should be 1.5:1 or less when properly matched. When tuning is complete, tighten the set screws securely.

**NOTE:** Bandwidth and VSWR will vary due to mounting location. Roof mounts, trunk groove mounts, and trunk lip mounts are recommended. The poorest mount is a bumper mount. If your installation has a VSWR over 1.5:1 at resonance or you need to operate over a greater bandwidth, a tuner may be required.

**STORAGE:** To store your HF Ham-tenna™, unscrew the ferrule/whip assembly from the lower fiberglass section.

**Note:** If only the whip is removed, repeat tuning procedure before using again.

**MFJ Enterprises, Inc.**

*...The World Leader in Ham Radio Accessories*

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## 12 MONTH LIMITED 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.

- 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.
- MFJ Enterprises, Inc. agrees to repair or replace at MFJ's option without charge to the original owner any defective product under warranty, 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.
- 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.
- This warranty is NOT void for owners who attempt to repair defective units. Technical consultation is available by calling (662) 323-5869.
- This warranty does not apply to kits sold by or manufactured by MFJ Enterprises, Inc.
- Wired and tested PC board products are covered by this warranty provided on 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 unrepai red.
- Under no circumstances is MFJ Enterprises, Inc. liable for consequential damages to person or property by the use of any MFJ products.
- 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.
- This warranty is given in lieu of any other warranty expressed or implied.
- 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.
- 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.
- This warranty gives you specific rights, and you may also have other rights which vary from state to state.