



**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.

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