

## MFJ-906 6 Meter Antenna Tuner

### General Information:

MFJ's new 6 Meter antenna tuner for *the Magic Band* gives you low SWR with practically any coax-fed antenna: mobile whips, dipoles, verticals, vees, random wires, beams.

With low SWR, your rig will be more efficient; you'll get more power out of your 6 meter tranceiver and into your antenna for more DX, it will run cooler and last longer, and your expensive tranceiver will be protected from overheating due to high SWR.

A lighted Cross-Needle SWR/Wattmeter shows SWR, forward and reflected power simultaneously in 300/60 and 30/6 Watt ranges and has an ON/OFF lamp switch. With a built-in bypass switch, you can bypass your tuner and connect your tranceiver directly to your antenna.

The MFJ-906 handles 100 Watts FM and 200 Watts SSB PEP. It works with all solid state and tube rigs and is perfect for home and mobile use. The MFJ-906 measures 8" x 2 1/2" x 3". The meter lamp uses 12 Vdc.

### Installation:

The MFJ-906 installs between your 6 meter tranceiver and your antenna. Connect the MFJ-906's **TRANSMITTER** SO-239 to your 6 meter tranceiver, and the **ANTENNA** SO-239 to your antenna. The meter lamp is powered by 12Vdc, through the **POWER** jack on the rear panel. Use an optional **MFJ-1312B** or another power transformer that provides 12V, 300 mA.

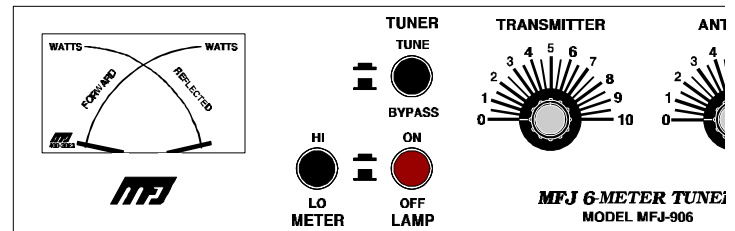
### Operation:

1. Ensure that the **TUNER** switch on the front panel is depressed in to the **TUNE** position.
2. For high power transmitters (60 Watts and up), depress the **METER** switch in to the HI position. For less than 60 Watts, this switch should be out, in the LO position.
3. Set **TRANSMITTER** and **ANTENNA** controls to **5** (capacitors half opened).
4. Apply enough transmitter power to give an adequate indication on your SWR meter. **Do not apply full power while tuning for minimum SWR!**
5. Referring to the cross-needle meter on the front panel, adjust the **TRANSMITTER** control for a drop in SWR.
6. Adjust the **ANTENNA** control until minimum SWR is achieved.

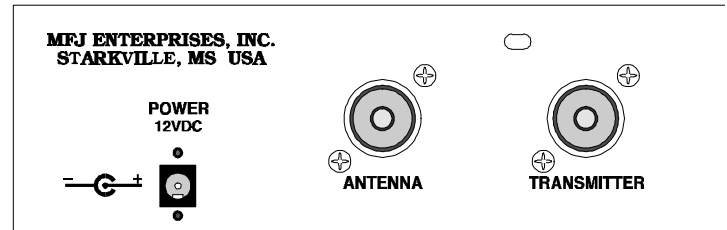
**NOTE** Since the **TRANSMITTER** and **ANTENNA** controls interact, they must be adjusted alternately until minimum SWR is obtained.

7. After minimum SWR is achieved, check output power with a voltmeter, relative power meter or with an antenna current meter. Tune the **ANTENNA** tuner for maximum power output: Make sure SWR is at minimum.
8. To bypass the MFJ-906, place the **TUNER** switch on the front panel out to the **BYPASS** position.

### MFJ-906 Front Panel



### MFJ-906 Rear Panel



### Technical Assistance

If you have any problem with this unit first check the appropriate section of this manual. If the manual does not reference your problem or your problem is not solved by reading the manual you may call MFJ at 601-323-5869. You will be best helped if you have your unit, manual and all information on your station handy so you can answer any questions the technicians may ask.

You can also send questions by mail to MFJ Enterprises, INC., P.O. Box 494, Mississippi State, MS 39762; by FAX to 601-323-6551; through Compuserve at 76206,1763; or by email to 76206.1763@Compuserve.com. Send a complete description of your problem, an explanation of exactly how you are using your unit, and a complete description of your station.