

## MFJ-903 6 METER ANTENNA TUNER

### General Information:

The MFJ-903 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 transceiver and into your antenna for more DX, it will run cooler and last longer, and your expensive transceiver will be protected from overheating due to high SWR.

The MFJ-903 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 stations.

### Installation:

The MFJ-903 installs between your 6 meter transceiver and your antenna. An external Power/SWR meter is necessary for proper operation of the MFJ-903. Connect your 6 meter transceiver to your Power/SWR meter. Then connect the Power/SWR meter to the **TRANSMITTER** SO-239 of the MFJ-903. The coax from the antenna is then connected to the **ANTENNA** SO-239 of the MFJ-903.

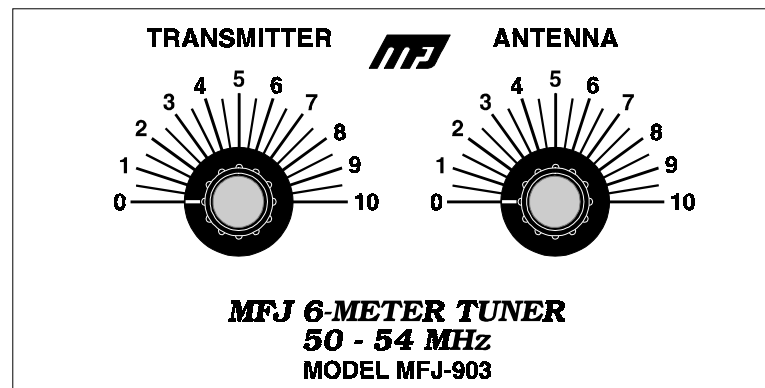
### Operation:

1. Set **TRANSMITTER** and **ANTENNA** controls to **5** (capacitors half opened).
2. Apply enough transmitter power to give an adequate indication on your SWR meter. **Do not apply full power while tuning for minimum SWR!**
3. Referring to your external Power/SWR meter, adjust the **TRANSMITTER** control for a drop in SWR.
4. Adjust the **ANTENNA** control until minimum SWR is achieved.

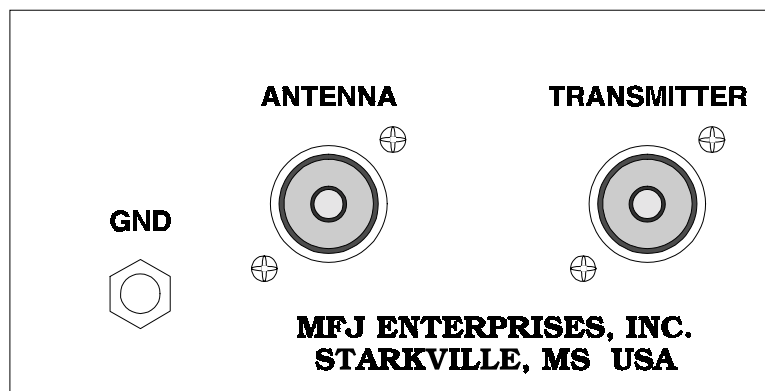
**NOT E** *Since the **TRANSMITTER** and **ANTENNA** controls interact, they must be adjusted alternately until minimum SWR is obtained.*

5. 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.*

**MFJ-903 Front Panel**



**MFJ-903 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 Technical Service* at **601-323-0549** or the *MFJ Factory* 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., 300 Industrial Park Road, Starkville, MS 39759; 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.