

INTRODUCTION

The MFJ-810 and MFJ-812 VHF SWR/WATTMETER are low loss meters primary designed for 2 meter operation. However it will function down to 21 MHz with reduced sensitivity. The MFJ-812 also has a field strength circuit built-in to monitor RF radiated signals.

INSTALLATION

1. Connect a coax cable from the transmitter to the coax connector on the meter marked "TRANSMITTER"
2. Connect the antenna cable to the coax connector in the meter marked "ANTENNA".

OPERATION

1. SWR Measurement:
  - A) Set the FS/SWR button to OUT for SWR. (For model MFJ-812 only.)
  - B) Set the FWD/REF button OUT. Transmit a continuous carrier and set the SWR/POWER control for full scale deflection.
  - C) Push IN the FWD/REF button and read SWR.

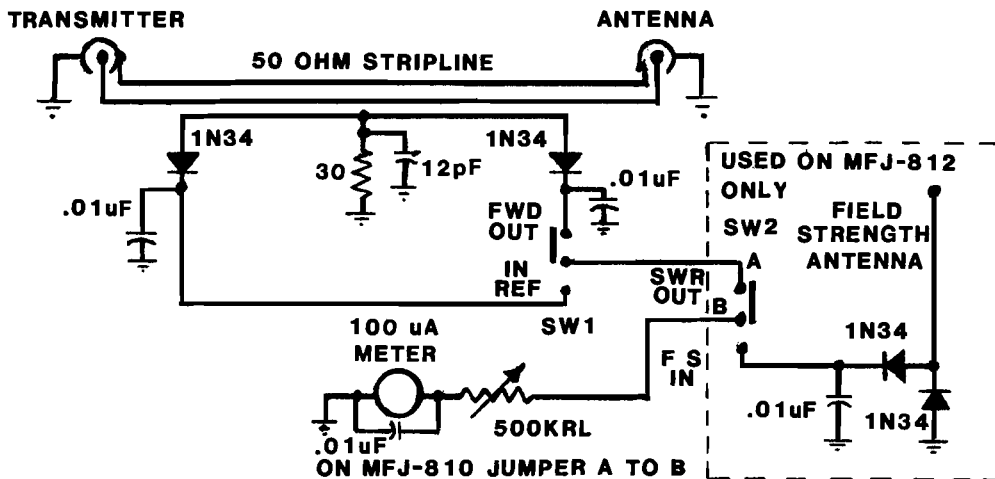
NOTE: The SWR sensitivity must be reset when power level is changed. This will maintain an accurate SWR reading.

2. Power Measurement:
  - A) Set the FS/SWR button OUT (For model MFJ-812 only).
  - B) Set the FWD/REF button OUT.
  - C) Set the SWR/POWER control to the 30 mark. This scale reads a maximum of 300 watts.

NOTE: ~~The SWR/POWER control is accurate only on the 2 meter band. It is factory calibrated for the 30 watt mark, do not reset the knob on this control. However, due to component tolerance when precision reading is desired, the 300 watt range can be recalibrated as follows: Set the FWD/REF button OUT. (Set the FS/SWR button OUT on the MFJ-812.) Set the SWR/POWER control to 30, note the power level on the 30 watt scale, then rotate the control to read the same power level on the 300 watt scale. Mark the control setting for the recalibrated 300 watt range.~~

FIELD STRENGTH METER (For MFJ-812 Only)

1. Connect a 1 to 2 feet length of wire to the binding post on the rear of the meter.
2. Set the FS/SWR button to FS (IN). The FWD/REF button can be either IN or OUT.
3. Adjust the SWR/POWER control for the desired meter sensitivity.



MFJ-812/810 SCHEMATIC DIAGRAM