The MFJ-815B DELUXE HF PEAK READING SWR/WATTMETER utilizes2a 50rootsm-redesenthye load that is capable of handling ful meter so that peak or average Foward power, Reflected power, and SWRheanramsmitteder can put out and has better than a Foward power is in Two ranges from 200 watts to 2000 watts. SWR is read from 1.1:1 to 5:1. Frequency range is from 1.8 to 60MHz.

3. A power meter of known accuracy. The calibration as good as the standard meter.

INSTALLATION

- 1. Connect the coax connector labeled TRANSMITTER to the transmitter with RG-58/u cable. Use PL-259 connectors.
- 2. Connect the coax connector labeled ANTENNA to the antenna with RG-58/u cable. Use PL-259 male connector.
- 3. If a lighted meter is desired, a 12Vdc power supply such as the2. Connect the equipment as shown in the diagram. Us MFJ-1312B must be connected. Use a standard 2.1mm coax with the load for the antenna. Set the transmitter to 14MI center positive and the sleeve ground. The METER LAMP ON/OFF switch will activate the meter lamp.

 3. Transmit about 100 watts as indicated on the reference and instructions are the formed and instructions.

FOWARD & REFLECTED POWER

- 1. Set the desired power range by using the switch on the front panel labeled METER HI/LOW. The high range is 2000 watts
- The Peak Reading feature may be switched on/off by using the push button on the front panel labeled METER PEAK/AVERAGE.

SWR MEASUREMENT

 ${\tt SWR}$ is indicated by the crossing point of the two meter pointers. While transmitting, read the ${\tt SWR}$ from the ${\tt SWR}$ line nearest the crossing point.

Note: No SWR setting is needed at any range.

The MFJ-815B has been calibrated at the factory. If it should ever need to be recalibrated, then follow this procedure:

EOUIPMENT NEEDED

1. Transmitter capable of supplying enough power to obtain $1/2\ {\rm to}$ full scale reading at 14 or 21 MHz.

- 4.50 ohm cables capable of handling the power. RG-! recommended. DO NOT USE RG-59 or RG-11.

METER CALIBRATION-refer to PC layout for trimpot lo

- 1. Remove the top of the 815B.
- 3. Transmit about 100 watts as indicated on the refe Adjust LOW FOWARD to set 100 watts on the foward Next set the pushbuttons to the 2000 watt power 1000 watts as indicated on the reference meter. 1 FOWARD to set 1000 watts on the foward scale.
- To set the reflected power, interchange the coax cable so that the transmitter is connected connector and the dummy load is connected to connector. Set the range switch to the 200 watt 10 watts as indicated on the reference meter REFLECT to indicate 10 watts on the reflected 815B. Next set the range switch to the 200 Transmit 100 watts according to the reference m HIGH REFLECT to indicate 100 watts on the reflect 4. To set
- 5. SWR requires no calibration.