NOTE

On grounded-grid Amplifiers, do not check modulation at higher powers. Grounded-grid linear Amplifiers will not be able to put out 100% modulation in the AM mode, however, the feed-through power prevents the grounded grid from being fully modulated. This is the reason AM modulation should be checked at the transmitter, or with the linear amplifier in standby positon.

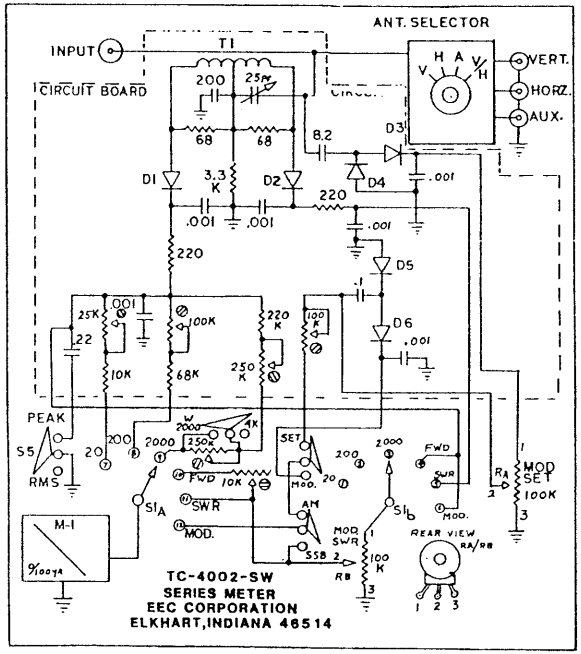
SSB MODULATION check:

1. Set Mode Selector switch (#5, Fig. 1) to Modulation Position.
2. Set SSB/AM rocker switch (#7, Fig. 1) to SSB.
3. For this test, the Transmitter must be in the AM mode for setting modulation on meter to the SET position on meter. Make sure you use the lower scale.
4. With Transmitter keyed, turn Mode switch on transmitter to either UPPER OR LOWER SIDE BAND and talk in microphone. Read modulation on the lower scale of meter.

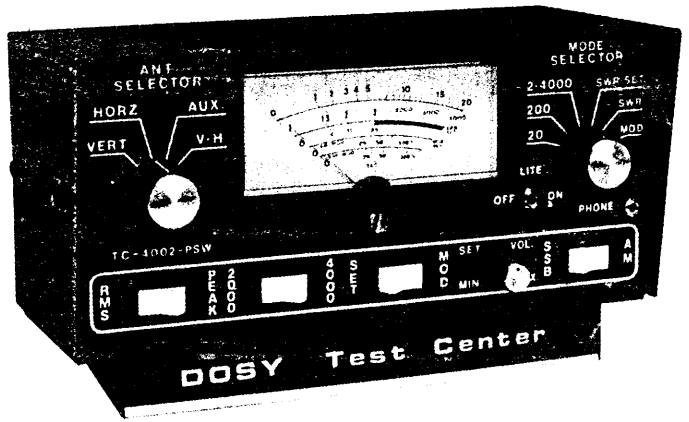
ANTENNA SELECTOR SWITCH operation:

(This mode is only on Model TC-4002-PSW. This switch gives you the versatility of switching up to three antennas.)

1. VERT position for a VERT antenna or GR plane.
2. HORZ position for a HORZ antenna or BEAMS.
3. AUX position for a third antenna or a dummy load.
4. VERT/HORZ positon ties in both VERT and HORZ antennas to the transmitter in-put at the same time. Make sure (if only one antenna is used) that the antenna selector switch is in the same positon as the antenna cable on the back of the test set.



INSTRUCTION MANUAL



MODEL
TC-4002-PSW

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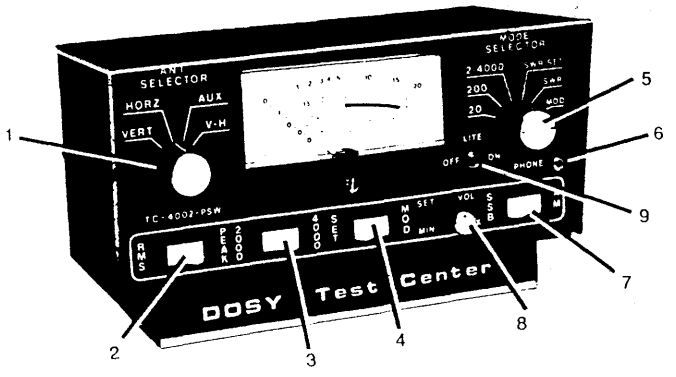

Figure 1
MODEL TC-4002-PSW

1. Antenna Selector Switch
2. RMS/PEAK Mode Switch
3. 2000/4000 Watt Range Switch
4. Set/Modulation Switch
5. Mode Selector Switch for Watts, SWR and Modulation
6. Ear-Phone Plug
7. Modulation Mode Switch for SSB/AM
8. RF Level Control Modulation and SWR-Volume Control for Ear-Phone Plug
9. Lite Switch

IMPORTANT

On the Model TC-4002-PSW, be VERY careful if only one antenna is used. Before the transmitter is keyed, make sure the antenna switch (#1, Fig. 1) is in the proper position for desired antenna. If this switch is in one of the other positions and the transmitter sees an open load, the watt meter diodes may be damaged and the transmitter may also be damaged.

TC-4002-PSW INSTALLATION

The TC-4002-PSW Test Center can be installed at any point in your transmitter Line. Fig. 2.

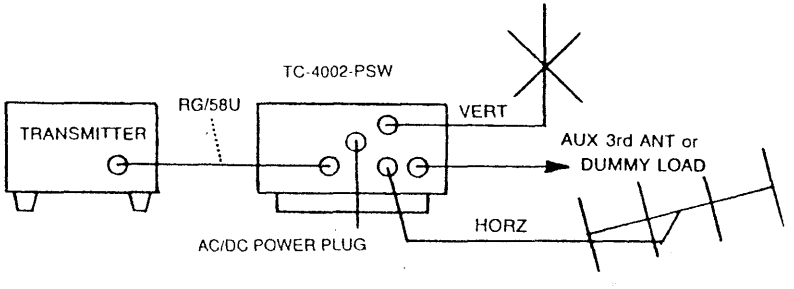

Figure 2

HEADPHONE & DIAL LIGHT

All Dosy meters equipped with head phone jack and meter panel dial lights must be plugged into a 120-volt outlet with the power adapter that is furnished. The power adapter cable must be plugged into the AC/DC socket on the back of the meter cabinet. Position the toggle switch to the "ON" positon on the front panel, at this time the panel light should be on.

After you connect the antenna and the transmitter to the meter, make sure you turn the RF level control fully counterclockwise and key the transmitter. At this time whistle or talk into the microphone, and advance the phone volume control to desired audio level. (The headphone will operate in all positions of the mode selector switch.) It is not recommended to monitor audio in SWR or modulation mode settings. The set adjust in the two adjustments will also increase the audio through the earphone.

WATTS

The TC-4002-PSW Test Center will indicate the power output (in watts) of your equipment at the point in the transmission Line where you have installed the Test Center. To measure any power from 1 to 2000 Watts, just set the Mode Selector Switch (#5, Fig. 1) to the range to be measured. If wattage to be measured is larger than 2000 watts, the rocker switch (#3, Fig. 1) must be switched to the 4000 Watt position. When returning back to the 2000 watt scale, you must return the rocker switch #3 back to the 2000 watt positon.

RMS/PEAK WATTS

Rocker switch (#2, Fig. 1) permits the selection of either RMS or Peak Watt reading when measuring watts. In the RMS position, there will be steady or very little movement of the watt meter needle. When rocker switch #2 is in Peak position, watt meter will indicate peak power output.

SWR check:

1. Turn Selector Switch (#5, Fig. 1) to FWD/SET positon.
2. Turn RF control (#8, Fig. 1) to MIN.
3. Key Transmitter and turn RF level to give a full-scale meter reading to set on SWR scale.
4. With Transmitter keyed, switch Selector switch (#5, Fig. 1) to the SWR position and read SWR ratio directly on SWR scale.

AM MODULATION check:

1. Turn Mode Selector Switch (#5, Fig. 1) to the MODULATION position.
2. Set Modulation rocker switch (#4, Fig. 1) to SET.
3. Set rocker switch (#7, Fig. 1) to AM positon.
4. Turn RF level control (#8, Fig. 1) to MIN.
5. Key Transmitter and turn RF level control to read full scale to SET on AM Modulation scale on meter.
6. With Transmitter keyed, switch rocker switch (#4, Fig. 1) back to the Modulation positon and talk into the microphone or, with a steady whistle, read modulation percentage on the AM scale.