BUD CPO-128B OR CPO-130B
CODE PRACTIC OSCILLATOR AND MONITOR

The Bud CPO-128B is a versatile two purpose instrument that can be used as a code practice oscillator, as a keying monitor to check I.C.W. signals, or as a monitor for phone signals.

As a code practice oscillator the output is about one watt. Any number of headphones can be used. If the phones are of the high impedance type connect them in parallel. Low impedance phones should be connected in series.

OPERATING INSTRUCTIONS
CODE PRACTICE OSCILLATOR

Plug the line cord into 110 V., AC or DC. When the CPO is warmed up (about 30 seconds) and the CPO Monitor Switch at the side of the unit is in the "C" position, an audio note will be heard. The pitch and volume can be adjusted to suit the operator. If a key is plugged into the Key Jack, the note will stop. Operation of the key will produce a clear clickless note.

ICW AND PHONE MONITOR

Make a link from a good grade of plastic covered lamp cord so that RF can be picked up from the transmitter final tank coil.

The link is made from a 4 or 5 foot piece of lamp cord and soldered to two open terminals of the M-C switch as shown in Figure 1.

Flip the switch at the side of the unit to "M" and install the link near the final tank. This distance must be determined by the amount of power in the final tank. In two hundred watt rigs it will be about one foot. In very low power rigs it may be one inch. Enough RF is picked up by the link to operate the audio oscillator. The pitch and volume control are then adjusted for best results. It will be noticed that the controls do not respond exactly the same as when the unit is operated as a code practice oscillator. This is due to the difference in voltage caused by various settings of the link.

Headphones may be plugged into the headphone jack for ICW monitoring or if high impedance phones are plugged into the key jack and the pitch and volume control are adjusted, the unit can be used as a phone monitor.

Figure 1