OPERATING INSTRUCTIONS FOR AMECO CODE PRACTICE OSCILLATOR, MODEL OCM-2

Model OCM-2 is a solid-state Code Practice Oscillator. With the aid of an adapter, described in Fig. 2 below, it may also be used to monitor a CW transmitter that employs grid-bias keying.

INSTALLATION OF BATTERIES.

(1) Remove the four screws, one at each corner of the front panel.
(2) Remove front panel assembly by pulling gently on the knob and lifting assembly clear of cabinet.
(3) Obtain a 9-volt battery. (Eveready 216, Burgess 2U6, or a similar unit.) Push the battery snap-on connector on to the battery terminals. Insert the battery into the battery holder clip.

ADJUSTMENT OF TONE CONTROL.

(1) Take a piece of bare wire and short the two "KEY" terminals on the front of the panel. Adjust the volume control so that the sound is at a comfortable level.
(2) Rotate the wheel of the small tone control, R3 (located on the printed circuit board), for the desired tone. Then, remove the short across the "KEY" terminals on the front of the panel.
(3) Put the front panel assembly back in the case. (Be careful not to damage parts).
(4) Replace the four screws, one in each corner of the front panel. Do not overtigh ten.

OPERATION AS A CODE PRACTICE OSCILLATOR USING INTERNAL SPEAKER.

(1) Connect the key to the two terminals marked "KEY".
(2) The unit is now ready for use. Adjust the volume control as desired.

OPERATION AS CODE PRACTICE OSCILLATOR USING PHONES OR SEPARATE SPEAKER.

(1) Connect the key to the two terminals marked "KEY".
(2) Remove the jumper wire across terminals 3 and 4. This disconnects the internal speaker.
(3) Hook up the phones or external speaker to terminals 2 and 3. See schematic below. Phones with an impedance of 8 to 1000 ohms can be used. However, as the impedance of the phones increases, the maximum volume available is reduced. If an external speaker is used, its impedance should be between 8 and 45 ohms.

OPERATION AS A DIRECTLY KEYED CW MONITOR. This section is for negative-biased keyed transmitters and transceivers only. It is not for cathode-biased transmitters.

(1) Obtain the parts shown in Fig. 2. They can be purchased at any electronics parts store. Hook them up as shown, using any small board or terminal strip.
(2) Connect terminals 1 and 2 of the CW monitor adapter to terminals 1 and 2 on the OCM-2 terminal strip. Connect the telegraph key to terminals A and C of adapter. Run wires from the key terminals of the transmitter to terminals B and C of the adapter. Terminal C should be the common terminal.
(3) The unit is now ready for use. Adjust the tone and volume control as desired. When the key is closed, the monitor will sound. Operation of the transmitter or transceiver is unchanged.

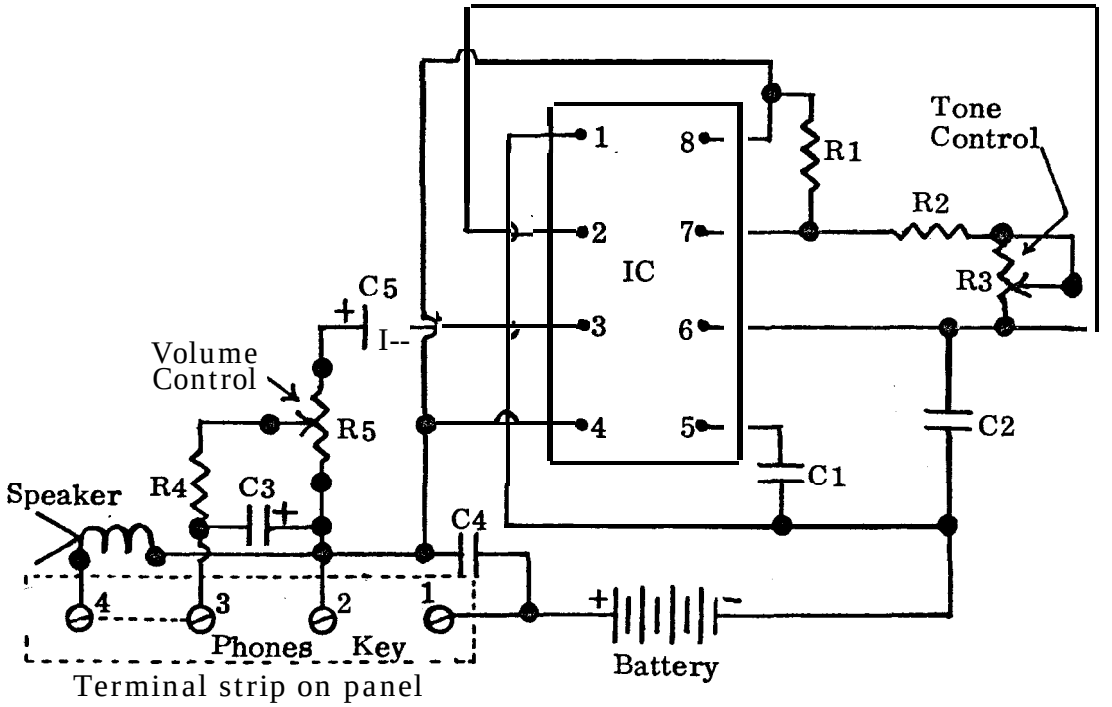

Fig. 1. Schematic diagram of OCM-2.

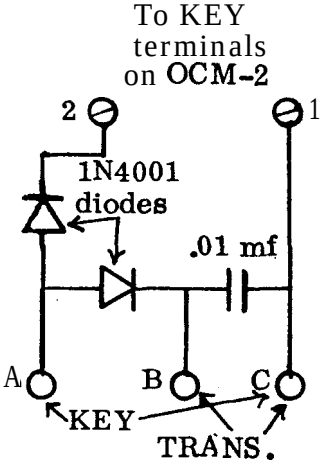

Fig. 2. Adapter to use OCM-2 as a CW monitor.

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