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Communications Receiver (M.C.R.1.)

A. INSTALLATION INSTRUCTIONS.

- 1. Erect the aerial as high as possible, using the bakelite card as an insulator if necessary. Never attempt to use less than 6ft. of aerial wire. If the full 30ft. cannot be run out, leave the unused wire on the card. Do not cut it off. Plug into socket A.
- 2. Use the 10ft. length of wire provided to make an Earth connection, or use it as a counterpoise Earth. Plug into socket E.
- Select a Coil Unit to cover the frequency range required and fit it to the receiver.
- 4. Plug the telephone lead into the sockets marked PH.
- 5. When ready to receive, plug the power lead into a battery.

B. TUNING THE RECEIVER.

- 1. Turn the SENSITIVITY control fully CLOCKWISE.
- 2. Adjust the TUNING CONTROL until any station somewhere near the frequency required is tuned in.
- 3. Adjust the AERIAL TRIMMER for the loudest. reception.
- 4. Adjust the REACTION contro as the position either just PEFORE or just AFTER the part of oscillation according to whether R.T. or C.W. sands are to be received.
- 5. Refer to the calibration scale on the Coil Unit and move the TUNING CONTROL to the setting given for the desired frequency. If the Station is not heard at once, search to and fro around the setting given.
 - 6. If necessary, readjust the SENSITIVITY control to get comfortable volume.

NOTES.

- (a) Always disconnect the Battery Plug when the receiver is not being used.
- (b) Always leave one Coil Unit on the receiver in order to protect the pin contacts.
- (c) When changing Coil Units care should be taken to keep the Unit straight and in line with the receiver, in order to avoid bending and straining the pins.
- (d) It is desirable, although not essential, that the battery be disconnected when changing Coil Units.(e) About 30 hours operation can be expected from
- each battery.
- (f) If the REACTION control has to be turned almost fully clockwise before the set oscillates as indicated by the "plop and hiss" it is an indication that the battery is becoming run down.
- (g) An Earth connection is not essential if a good aerial is available, but it may be useful when signals are weak.

THE POWER PACK.

With some sets a Power Pack is provided instead of the third battery. This should be used instead of a battery when mains are available.

This Power Pack may be used when correctly adjusted on either A.C. or D.C. Mains of any voltage between 97 and 140 or 190 and 250. Proceed as follows:—

- 1. Ascertain the type of current (A.C. or D.C.) and the voltage by reference to the electric meter.
- 2. For D.C. mains, use the Selector Screw in one of the top row of sockets marked "Input Volts D.C." and for A.C. mains use the bottom row marked "Input Volts A.C."
- 3. For voltages between-

97 and 115 use Socket 107.

116 ,, 140 ,, ,, 127

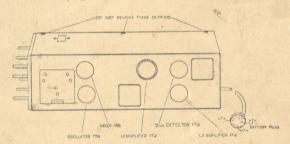
190 ,, 220 ,, ,, 205 221 ,, 250 ,, ,, 235

- The Voltage Selector Screw must not be changed without first switching off the mains.
 Plug the power lead from the set into the Power
- 5. Plug the power lead from the set into the Power Pack.
- 6. Connect the Power Pack to the mains and switch on.

NOTES.

If there is any doubt as to whether the mains are A.C. or D.C. proceed as follows:—

- (a) Set the voltage selector screw into the D.C, range at the correct voltage.
- (b) If the receiver fails to operate reverse the mains plug in its socket. If now, the receiver gives results then the mains are D.C.
- (c) If stations can be received faintly in either position of the mains plug then the mains are A.C. In this case—switch off the power—set the Voltage Selector Screw into the correct number socket on the "Input Volts A.C." row and switch on again.
- (d) If, when on A.C. mains, hum is troublesome, some improvement may be effected by reversing the mains plug



CONVERSION TABLE.

	100					12 PE A	
Range 1.		Range 2.		Range 3.		Range 4.	
kc/s. N	letres	Mc/s.	Metres	Mc/s.	Metres	Mc/s. J	Metres
150 200 250	50000 520000 152000	5,67,800,10,045,67,800,10,04,44,44,44,44,44,44,44,44,44,44,44,44	120 11151 11073097 110039941 110039941 110039941 110039941 110039941 110039941 110039941 110039941 110039941 110039941 110039941 110039941 110039941 110039941 110039941 11003941 1003941 1003941 1003941 1003941 1003941 1003941 1003941 1003941 1003941 1003941 1003941 1003941 1003941 1003941 1003941 10	567.89.01.23.45.87.89.03.46.80.23.46.0 4.44.44.55.55.55.55.66.66.77.77.8	67544510987653452108554432198	8.05 9.00 9.00 110.00 111.00 112.00 112.00 114.00 115.00 115.00	85510976545210 55505522222222