

# FULLERPHONES MKS. IV, IV\* & IV\*\*

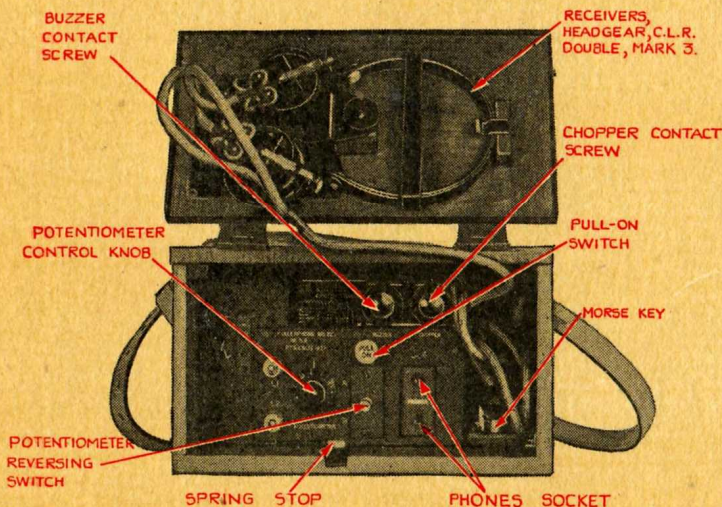
## *Working Instructions*

### 1. PRELIMINARY.

Unfasten catches, press spring stop in centre of base of case and withdraw instrument. Examine cells and their connections. Push instrument back into case as far as the first catch. Remove headphones from lid.

### 2. TO TEST.

Pull out knob marked PULL-ON and plug in phones. Short-circuit terminals L1 and L2 and operate morse key. A clear note should be heard in phones.



### 3. TO ADJUST BUZZER.

(a) With terminals L1 and L2 shorted and PULL-ON knob out, unlock and unscrew BUZZER and CHOPPER contact screws about 6 turns.

(b) Put on headphones.

(c) Press key and slowly advance the CHOPPER contact screw until a "click" is heard in the headphones, then lock it. Tap key a few times to ensure that "clicks" are heard.

(d) With key depressed, slowly advance BUZZER contact screw until a loud and clear buzz is heard in the headphones, then lock it.

### 4. TO OPERATE.

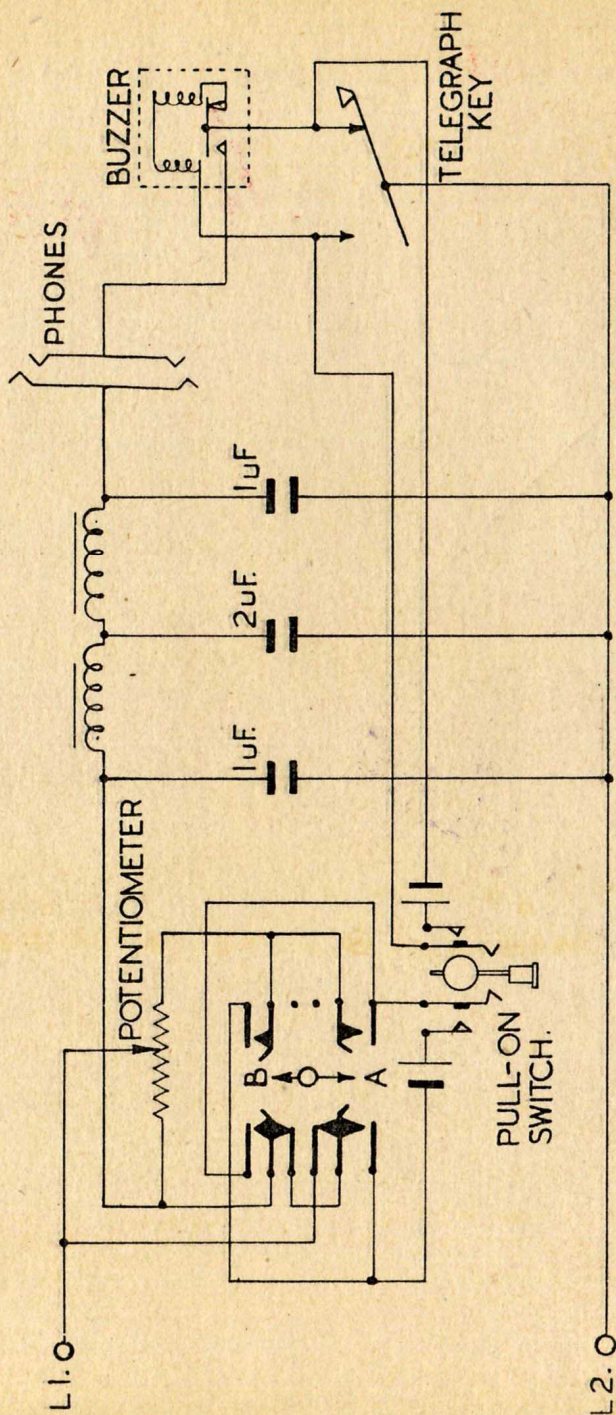
(a) Connect terminals L1 and L2 to lines, or line and earth, plug in phones and pull out PULL-ON knob.

(b) To eliminate any steady buzz in the phones (due to earth currents) throw key to position A or B and adjust potentiometer till buzz ceases.

NO SIGNALS CAN BE SENT OR RECEIVED UNLESS THE BUZZER IS WORKING CORRECTLY.

### 5. OPERATOR'S MAINTENANCE.

See that the apparatus is kept clean and dry. Keep the battery compartment thoroughly clean and remove any corrosion from the batteries.



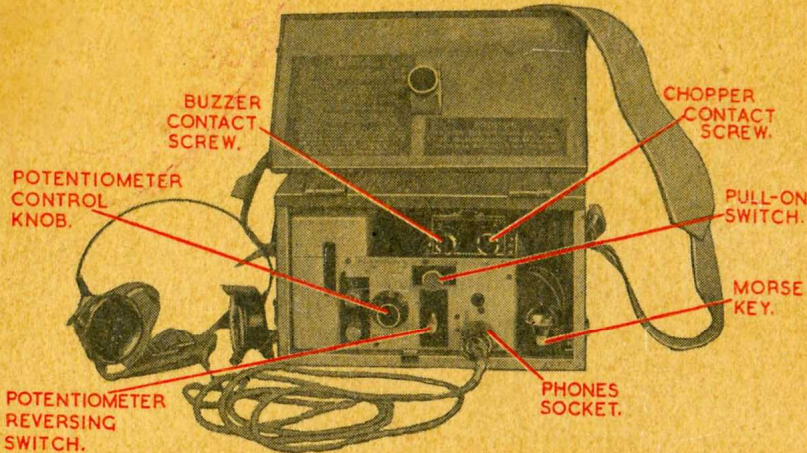
**CIRCUIT DIAGRAM OF FULLERPHONES MK. IV.**

# FULLERPHONES MK. V

## *Working Instructions*

### 1. TO TEST.

- (a) Examine cells and their connections.
- (b) Pull out knob marked PULL-ON.
- (c) Plug in phones.
- (d) Short-circuit terminals L1 and L2.
- (e) Operate morse key—a clear note should be heard in the phones.



### 2. TO ADJUST BUZZER.

- (a) With terminals L1 and L2 shorted and PULL-ON knob out, unlock and unscrew BUZZER and CHOPPER contact screws about 6 turns.
- (b) Put on head-receivers.
- (c) Press key and slowly advance the CHOPPER contact screw until a "click" is heard in the head-receivers. Then lock the screw. Tap the key a few times to ensure that "clicks" are heard.
- (d) With key depressed, slowly advance BUZZER contact screw until a loud clear buzz is heard in the head-receivers. Then lock the screw.

NO SIGNALS CAN BE SENT OR RECEIVED UNLESS THE BUZZER IS WORKING CORRECTLY.

### 3. TO OPERATE.

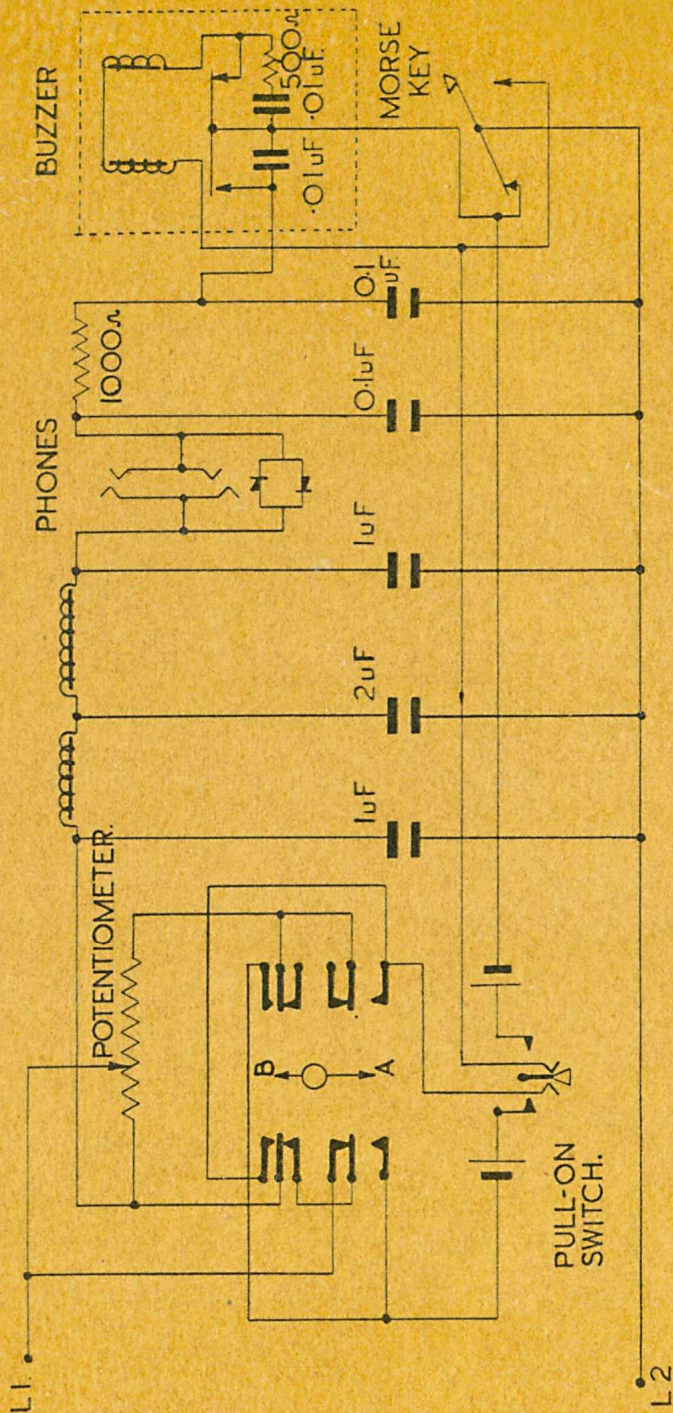
- (a) Connect terminals L1 and L2 to lines or to line and earth. Plug in phones and pull out PULL-ON knob.
- (b) To eliminate any steady buzz in the phones (due to earth currents), throw the key to position A or B and adjust the potentiometer till the buzz ceases.

### 4. MAINTENANCE.

See that the apparatus is kept clean and dry. Keep the battery compartment thoroughly clean and remove any corrosion from the batteries.

### 5. TO STOW HEAD-RECEIVERS.

Insert the metal neckband behind the buzzer housing. Ensure that the PULL-ON switch is not obstructed.



**CIRCUIT DIAGRAM FOR FULLERPHONES MK. V.**