Wiring the Set.

of the coil (1) run to the crystal. This end of the crystal is connected with

the fixed places of the condenser, "B" of the transformer. The other side of

the crystal is connected with "P" of the valve, and with one side of the

fixed condenser. The lower end of

the coil (5) is connected with "B" of

the transformer, the earth, and the

end of the fixed condenser and to "G" of the valve socket. "GB" of the transformer goes to the zinc covering of the torch cell. The brass cap of this is joined with the negative ter-minal of the "A" battery. From this

point a wire goes to the rheostat, which in turn is connected with "F" of the valve socket. The other "F"

of the reaction coil connects with the moving plates of the reaction con-denser, the fixed plates of which are joined with the "P" terminal of the

valve and with one side of the R.F.C.

If, on trying out, it is found that

plate to the jack.

try out.

terminal is to be joined to "A+." connection is now made between this point and "B" negative.

moving plates of the condenser. "G" of the transformer passes to one

connect the aerial lead to a pin socket and solder each lead to a pin. The aerial tapping can then be varied at The top terminal, the terminal common to the reaction and the aerial coil, and the reaction coil terminal are not connected with pins.

Mount the components in the cabinet as indicated. The two condensers and

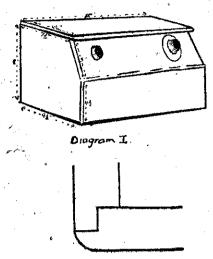
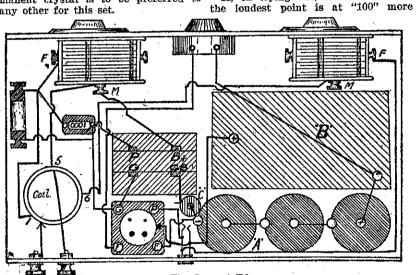


Diagram II

The diagram illustrates the cabinet if it is used. The free side of this passes to the tack. If this componsions apply, but a reaction dial replaces the rheostat which is to be centred.

the rheostat are mounted on the sloping front, the remainder on the bottom with the exception of the crystal, which is mounted on the side. A permanent crystal is to be preferred to any other for this set.



The Layout Diagram.

The coil is best mounted vertically, turns should be added to the aerial wood by Meccano angle brackets its manipulation within the cabinet is facilitated.

able piece of wood.

## A Unique Distinction

MR. W. M. DAWSON, of Philips remove the surplus wire. Lamps (N.Z.) Limited, has been elected a member of the Institute of Wireless Technology. Prior to this

If it is secured to a small mount of coil. Remove the aerial coil and solder a little more wire to this point and wind on a few more turns. Likewise the transformer and the the condenser reads at "0" turns will CROSLEY SETS . . . . . . . . . . . . F. H. Jellyman, Ltd., valve base might be secured to a mov- have to be removed. Try first by connecting the lead to the crystal to tap- CROSLEY RADIO D. A. Morrison & Co., ping No. 2, and if this brings the local station in more to the centre of the dial make a permanent connection and MAJESTIC, ATWATER-KENT

It will be found that when the batteries are new the maximum strength. will be obtained with the rheostat only election, Mr. Edwards, of Selectra partly on. Do not pass this point or Radio, Limited, Auckland, was the only member in New Zealand.

Will be obtained with the Theostat Unity Phillips VALVES AND the valve will be impaired. To shut off the set merely turn off the rheostat

If the constructor wishes he may connect wires from P and B+ of the WITH the aid of the diagrams the transformer to another jack. wiring is simple. Connect the phones may thus be worked from the aerial terminal to a tapping on the coil, usually number 4. From the top crystal alone.

It may be an improvement to earth

List of Components. Permanent crystal. 4lb. 20 gauge D.C.C. Variable condenser, .0005 mfd. Variable condenser, .00035 mfd. Fixed condenser, .0001 mfd.

Rheostat, 30 ohms. Transformer. Valve base. Valve A441. "B" battery, 22½ volts. Three "A" cells. Torch battery. Jack, terminals, clips.

For Sale or Exchange. See page 32 for column of casual advertisements.

# RADIO DIRECTORY

## What to Buy and Where

### CITIES

"B" positive runs direct to the output jack or terminal. The lower end

ALTONA & HAMMARLUND- Johns, Ltd.
Chancery Street, Auckland. ROBERTS SETS.

ATWATER-KENT RADIO ...

ent is not used connect directly the DAYTON All-Electric Radio ... Superadio, Ltd.,

One connection remains. "B+" is to be joined to the terminal on the side BURGESS RADIO BATTERIES, All Radio Dealers. of the valve, and now all is ready to CROSLEY RADIO

> **RADIO FERRANTI PONENTS**

LOUDSPEAKER AND TRANS- A. E. Strange, FORMER REPAIRS ..... 404 Worcester Street, Christchurch. MULLARD VALVES ... (exc). All Radio Dealers.

Expert Radiola Service. RADIO REPAIRS AND SER- E. G. Shipley,

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T.C.C. CONDENSERS

AERIAL MASTS ......... Domestic Radio Co., Ltd., Strand Arcde, Auckland.

Frank Wiseman, Ltd. 170-172 Queen Street, Auckland.

147 Queen Street, Auckland.

Abel, Smeeton, Ltd., 27-29 Customs St. E., Auckland.

COM- A. D. Riley & Co., Ltd., Anzac Avenue, Auckland, and all leading

CROSLEY SETS ..... Lewis Eady, Ltd., Queen Street, Auckland.

RADIOLA RECEIVERS .... Chas. Bennett, Ltd., 619 Colombo Street, Christchurch.

RADIOLA RECEIVERS and Farmers' Trading Co., Ltd., Hobson Street. Auckland.

185 Manchester Street, Christchurch.

METRODYNE RADIO -- 7v. and Royds-Howard Co.,

A. D. Riley and Co., Ltd. Anzae Ave., Auckland, and all leading dealers.

### COUNTRY TOWNS

CROSLEY RADIO J. C. Davidson,

Devon Street. New Plymouth. Victoria Avenue. Wanganui.

AND APEX ELECTRICAL Bremer-Tully, SETS. Also Radiola and Browning-Drake

G. S. Anchor. Manager.

Radio House, Hamilton.

APPARATUS All Good Radio Dealers.