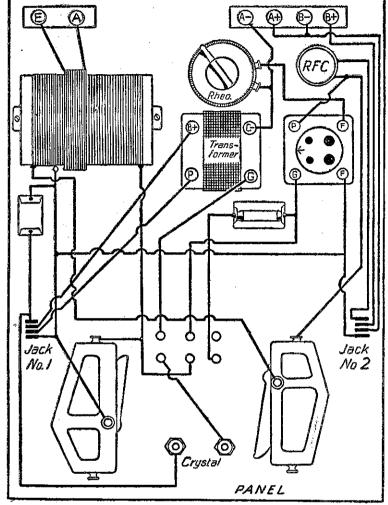
maining terminal on valve holder; the denser and leak. loop made in the tuning coil; the movvariable condenser; one of the outer of the valve and also to the free end

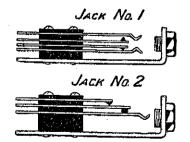
previous makes contact when the plug transformer, (2) free end of crystal is inserted to the following points. Redetector, (3) free end of grid con-

The fixed plates of reaction coning vanes of the first, or left-hand, denser are formed to plate terminal



lugs of jack No. 1, and also to one of R.F. choke and the moving vanes side of a .001 m.f.d. fixed condenser, of this condenser to the free end of the Join the remaining two lugs on the reaction coil. jack No. 2, one to one end of the R.F. minal on the strip of four, marked B+.

Join the remaining outer lug on jack No. 1-to the free end of the .001 fixed



lugs of jack No. 1 to the P and B+ terminals of the transformer.

of grid coil and to one of the centre dial. also to the grid terminal of the valve. age. This is done with a purpose, The various other switch terminals as no C battery is provided and a cer-

The aerial and earth wires, joined to choke, and the other to right-hand ter- their respective terminals, complete the wiring of the set.

Connecting Up.

ahead, and this comes after the batteries have been connected up and all is ready to try out.

Commence first of all with the switch arm thrown over to the left and plug PREST-O-LITE. Car and Radio L. J. Purdie & Co., Ltd. the 'phones into jack No. 1. Adjust the crystal and tune in the local station with the reaction condenser at RADIOLA RECEIVERS and Farmers' Trading Co., Ltd., zero. Now plug the 'phones or speaker into the right-hand jack. If everything is in order the station will roar T.C.C. CONDENSERS in at speaker strength. With the 'phones still in jack No. 2 throw the switch to the right and we have a single-valve detector, the crystal and crystal detector. Join the two centre transformer being thrown out of com-Gradually increase the reaction condenser and with the re-Connect the fixed plates of the left- ceiver on the verge of oscillation search CROSLEY SETS F. H. Jellyman, Ltd., hand variable condenser to the free end for distant stations on the left-hand Adjust the rheostat at the back lever arms on the D.P.D.T. switch. The until the valve operates successfully CROSLEY RADIO opposite switch arm goes to one end in the capacities of both detector and of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier with the minimum of A voltor of the grid leak and condenser and amplifier wi

Components Necessary

1 variable condenser .0005 mfd. variable condenser .0003 mfd.

fixed condenser .001.

1 fixed condenser .00025, with grid leak and clip.

crystal detector.

1 double pole double throw switch.

valve socket.

R.F. choke.

jacks as specified. 1 intervalve transformer.

1 rheostat 20-30 ohms.

Panel 12in. x 16in. x 3-16in. Ebonite or cardboard tubing, 2½in.

diameter, 3½in. long. ½lb. 24 S.C.C. wire.

doz. terminals.

Connecting wire, baseboard, etc.

When operating this set care must be taken not to allow it to oscillate, baffle if any of the lower register are as it is capable of radiating and dis- to be reproduced.

the top lugs of the jack No. 2. Join the run, as shown, to various points— tain amount of C bias is available turbing neighbours' reception for lug on the same jack with which the namely, (1) terminal marked G on across the rheostat resistance. Finally, there is no necessity to disconnect the batteries or cutting off the rheostat when closing down. Merely take out the speaker or 'phone plug from jack No. 2 as this automatically cuts off the filament supply.

Tone of Speakers

VERY often the tone of a small cone speaker can be vastly improved by using a baffle board. Obtain a square of wallboard and cut a hole in the centre slightly smaller than the diameter of the cone. Now, with three small clamps fastened by screws or bolts, the rim of the speaker can be fastened into place. It is not generally known that the moving coil speaker is no better than ones costing one-tenth the price if used without a baffle. It will then be realised that even the will then be realised that even cheapest speaker needs some sort of a

RADIO DIRECTORY

What to Buy and Where

CITIES

ALTONA & HAMMARLUND- Johns, Ltd.

Chancery Street, Auckland. ROBERTS SETS.

ATWATER-KENT RADIO ... Frank Wiseman, Ltd.

BURGESS RADIO BATTERIES, All Radio Dealers.

CROSLEY RADIO

FERRANTI RADIO COM-PONENTS e + [pressent a terminal + a

condenser, and also to one end of the THE most interesting part lies GREBE RADIO ... [0] ... [

MULLARD VALVES All Radio Dealers.

Battery Service 97 Dixon Street, Wellington.

Expert Radiola Service.

170-172 Queen Street, Auckland.

BREMER-TULLY RADIO Superadio, Ltd., 147 Queen Street, Auckland

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

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

> A. D. Riley and Co., Ltd. ADZRC Ave., Auckland, and all leading dealer

Dilworth Building, Custom st., Auckland.

Hobson Street. Auckland.

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

COUNTRY TOWNS

Main Street, Pahiatua.

Devon Street, New Plymouth.

Victoria Avenue. Wanganui.

APPARATUS All Good Radio Dealers.