The "Picnic Portable"

(Continued from Page 19.)

position and screwed down after the whole job has been completed.

The aluminium boxing should now be placed in position over the chassis and bolted in position. Before doing this, however, it is a good plan to solder suitable lengths of wire to the various panel components to enable the final connections to be easily made. Notice that there are only three of the panel components which need to be insulated from the aluminium panel. These are the on/off filament switch, the three-point aerial switch, and the socket to take the aerial plug. The others, comprising the variable con-densers, the reaction condenser, and the earth sockets, are mounted directly on the aluminium panel. The moving vanes of the variable condensers are thus connected to the chassis and are virtually earthed. Hence only one connection, that to the fixed vanes, need be made.

Winding the Coils.

THE coils, which are of very simple construction, are wound on 12in. diameter valve base extension former. A winding length of about 22in. will be reeded for the r.f. coil, and about 3in. for the detector coil.

The connections to the various pins should be carefully followed, because they have been arranged so that if by chance a valve is plugged into a coil socket, the filament will not be dam-

After mounting the two pieces of former of the required lengths on the valve bases, the longer is laid aside and the winding of the r.f. coil commenced. This consists of but one winding, a secondary, and so only two connections of the valve base are utilised, namely, plate and grid. About 3-Sin. from the bottom of the former bore a small hole and pass the end of a coil of No. 28 d.s.c. wire through the plate pin and se-

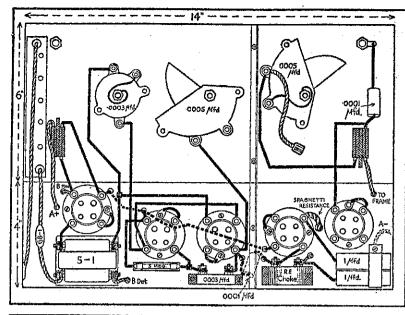


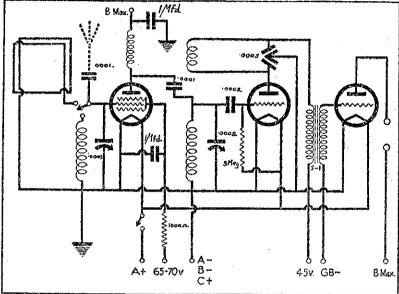
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Upper: The layout diagram. Lower: The circuit. Wiring from the latter and checked by the former. Wiring should be done

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cure it there with a dab of solder. 105 close-wound turns are now put on, and THE set is now complete, and should a hole delibed above the grid pin. a hole drilled above the grid pin, through which the end of the wire is ther. taken and secured as before.

The Detector Coil.

put on in a manner exactly similar outlined on these pages. to that followed previously, only the number of turns in this case is reduced pass the end of a length of No. 32 d.s.c. on the tickler. It is extremely unlikely through the pin and secure it there, that the latter will be necessary, and Then wind on 42 turns in the same direction as the secondary. The end of the coil, carefully check and re-check the winding is taken down through a all wiring. hole to the remaining filament pin. The pins of both coil valve-bases should now be smoothed off with a file so that they hold the remainder of this article unwill slip readily into the sockets.

Final Hints.

be tested out befor proceeding fur-

Before inserting the valves conduct a final test of the wiring by the torch THE secondary winding of this coil is bulb method, which has often been

If the set will not oscillate reverse the connections to the fixed vanes of the to 88. The reaction winding is now differential reaction condenser, try a commenced. Exactly 1-8in, above the higher "B" voltage on the detector, a secondary, and directly over one of the larger value grid-leak, and, as a last filament pins, drill a small hole and resource, increase the number of turns so, before making any alterations to

> [Owing to unusual pressure on space, we regret that we have been forced to til next week's issue .-- Ed.]

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