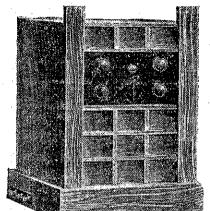
The "Presto" Change-over Local Receiver



Incorporating the famous Loftin-White circuit and multi-mu valve

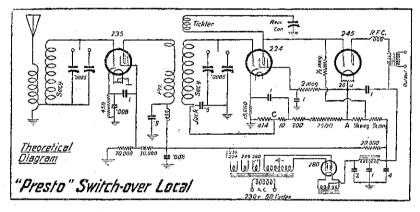
 \mathcal{R}_{u} "MEGOHM"



O be able to sit at ease and change from one local station to the other by the mere movement of a switch is the object of the two-station receiver described below. Moreover, the two stations must come in at good and equal

loudspeaker volume, however they may differ in actual power output. This receiver has been designed to accomplish this desirable end.

Quality reproduction, needless to say. is also imperative in the modern local receiver, and this condition has been artained by the adoption of the Loftin-White type of amplifier, which is preceded by the new variable-mu UX235 type screen-grid valve. In order to strengthen the reception of weak local stations, the amplifier has been slightly modified to include reaction, which, however, is not intended to be used too freely. Incidentally, it may be possible to bring in and at the same time present as easy certain distant stations under favourable conditions by making use of reaction, but the receiver has not been The wooden case is lined with sheet designed with this object in view, the aluminium of 16 gauge, which forms



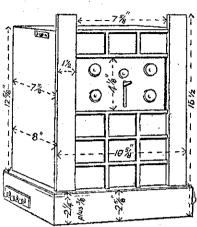
aim being to keep the radio tuning gear a complete shield against radio interas compact as possible.

The Cahinet.

THE neat appearance of the cabinet will be appreciated by a glance at the general view of the receiver. Woodwork gives a more distinctive air than can be produced in metal by the amateur craftsman, though, of course, some constructors will prefer to use aluminium alone. Actually, the necessary woodwork has been designed to be effective a task as possible to the amateur woodworker.

ference and at the same time isolates the power-pack which is housed in the lower portion of the cabinet, with the radio gear above, and smoothing condensers and output transformer in the base.

It may be stated here that if built as specified, no background whatever is heard from the unwanted station when tuned to either 2YA and 2ZW at a distance of two miles from the former station. Although great volume may be obtained from either sta-tion, quality remains remarkably good at the full output. Although selectivity is good, it is not so sharp as to all dimensions being given in the diapreclude slight detuning of the aerial grams. The top may be plain metal, circuit in order to decrease volume without affecting quality, and by adopting this method, extra controls are dispensed with, so that each station is received with equal volume, only the operation of the switch being required to change over.



Cabinet Dimensions

their respective valve grids, and in accomplishing this the chief care is to keep the respective grid leads well separated. Experiments showed that a specially-designed switch would be necessary to carry this out, and an easily-constructed pattern was worked out, having the advantage of being certain in operation and not too bulky.

Pick-up Provision.

PROVISION is included for the operation of a pick-up directly into the two-stage amplifier, in which case a pick-up with good voltage output is an advantage.

Excellent results and adequate volume are obtained from a heavy duty mag-netic speaker of the 66R or Farrand types, but if desired a dynamic ucit with low-wattage field may have the latter excited by inclusion in the re sistance chain, as will be shown.

Constructional Details of the Cabinet.

THE front, sides and base of the or wood lined with metal.

Make the base first, then build the upper portion upon it, allowing the base to project in. at front and sides. and sin. at back—this allows of screws being placed in holes drilled in the base to hold the upper part in position The switching is arranged so that The ornamental bars on the front are the stators of either of two pairs of strips \(\frac{1}{5} \) in. wide and 3-16in thick, glued tuning condensers are connected to on.

LIST OF PARTS For the "PREST O" Local Receiver

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