

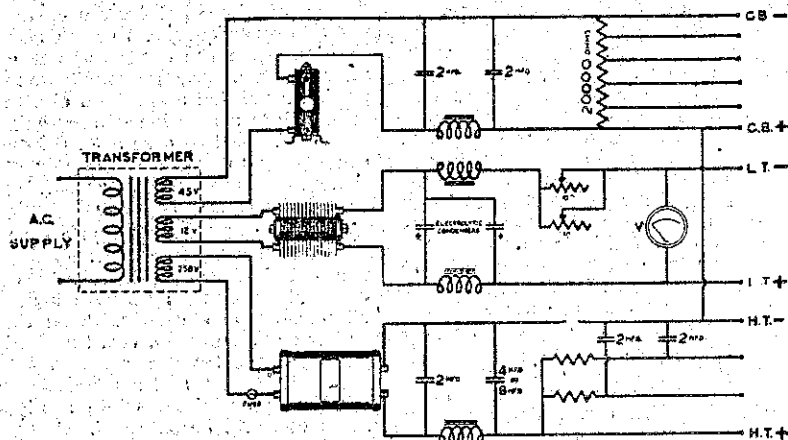
A B and C Battery Eliminators

Electrification by Easiest Method

FOR the set owner who does not desire to rebuild his set, the construction or purchasing an A.B.C. eliminator will probably appeal. This type of eliminator is quite an effective way of changing over to the A.C. mains for current.

"A" eliminators have for some time had very many drawbacks, but they have been now brought very near to perfection, and good results can accrue by their use. The eliminator consists

By reference to the diagram, it will be seen that the "A" battery eliminator is very similar to the "B" eliminator, but is constructed with very much heavier wire. By efficient smoothing, very little hum will result. If it is required to further break down the current, resistances which will pass sufficient current must be put in series with the positive lead. The diagram shows a method of bringing this about by using the ordinary 30 ohm variable rheostats.



A.B.C. eliminator, using metallic rectifiers.

of the following parts. A transformer that will step down from the A.C. mains to 10 volts supplying about 3 amps. of current; an electrolytic condenser or other big capacity smoothing condenser; an audio frequency choke wound with wire sufficiently heavy to supply enough current for the set, and a rectifier which will likewise pass enough current. This latter may be of the metallic type, electrolytic or valve. The electrolytic rectifier although economical in its first cost, is otherwise unsatisfactory. The dry rectifiers have had great popularity recently, and are proving themselves very efficient. They are slightly dearer in the first cost, but are well worth installing. Valve rectification still remains very popular, although after a certain period of use the filaments will burn out.

"B" eliminators are readily procurable and very easily made, although their manufacture requires a little care and plenty of patience. Their construction has been fully described in the "Radio Listeners Guide," and this has been supplemented by further articles in the "Radio Record." Grid bias may be obtained by a resistance at the end of the "B" supply, or by a separate bias unit. Such a unit was described in our issue of July 12, 1929 (Vol. III, No. 1). A workable "A" eliminator may be constructed by shunting the output terminal of a battery charger with an electrolytic condenser and connecting the positive lead with a choke such as has been described. This reduces the voltage, and unless tapping is higher than 6 volts is provided, 4 volt valves only can be used.

RADIO DIRECTORY

What to Buy and Where

CITIES

- AERIAL MASTS** Domestic Radio Co., Ltd.,
300 Queen Street, Auckland.
- ALTONA & HAMMARLUND-ROBERTS SETS.** Johns, Ltd.
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- ATWATER-KENT RADIO** .. Frank Wiseman, Ltd.
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- RADIO REPAIRS AND SERVICE** E. G. Shipley,
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- COUNTRY TOWNS**
- CROSLEY RADIO** J. C. Davidson,
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- CROSLEY SETS** Abel, Smeeton, Ltd. Rep.: C. Ruscoe,
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- CROSLEY RADIO** D. A. Morrison & Co.,
Victoria Avenue, Wanganui.
- MAJESTIC, ATWATER-KENT AND RADIOLA ELECTRIC SETS** Radio House, Hamilton.
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