

INSTRUCTIONS

MECCANO TRANSFORMER TYPE T22M

Output 50 VA at 20 Volts

This Transformer is intended for those who have a mains alternating current supply in their homes and who wish to use this current to run a Hornby 20-volt Electric Railway. The special feature of the Transformer is that it supplies sufficient current to run two separate trains at the same time, either on the same track or on two separate tracks. The Transformer transforms the high-voltage mains current down to a suitable low-voltage current. It does this simply and with perfect safety, and runs about 17 hours for the cost of one unit.

The use of this Transformer to run either one or two electric trains is quite simple. Read the instructions and look carefully at the illustrations. If by any chance some slight difficulty should occur, send us a postcard telling us about it, and we will put you right immediately. Address your postcard to Meccano Ltd., Binns Road, Liverpool 13.

It must be specially noted that all Transformers work only on Alternating Current. This Transformer, therefore, must not on any account be connected to **Direct** (sometimes called **Continuous**) Current.

Fig. A. shows the Transformer in use for driving two trains at once on the same track. The high-voltage alternating current mains supply is led to the Transformer by way of the adaptor (supplied with the Transformer), which is fitted into any convenient lamp holder. The mains current passes through the Transformer and emerges as 20-volt current which, by means of the connections shown in Fig. A, is led through a Meccano 20-volt Resistance Controller to the track by means of a TCP20 Terminal Connecting Plate. With this arrangement two trains can be run on the one track, but as the current for both passes through one Resistance Controller they will start and stop together, and be subject to the same variations in speed.

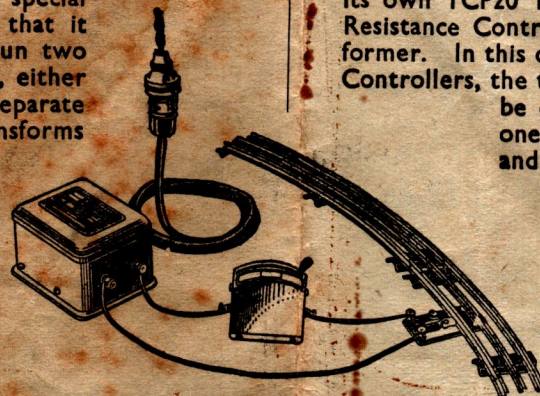


Fig. A

Fig. B shows how the Transformer is used to run two trains on Hornby Double Track, or on two separate tracks. It will be seen that each track has its own TCP20 Terminal Connecting Plate, with a Resistance Controller between this and the Transformer. In this case, by means of the two Resistance Controllers, the two trains, one on each track, can be operated entirely independently of one another as regards starting, stopping and speed control. For instance, one train may be kept going at full speed from terminus to terminus, while the other stops at intermediate stations.

The train circuits are protected by the Fuse in each Terminal Connecting Plate. This Fuse is fitted with a piece of soft wire that melts at a low temperature and thus prevents damage to the Transformer resulting from short circuit. If a short circuit should occur, the wire that has melted must be replaced by another piece. The correct Fuse Wire to use with Terminal Connecting Plates to suit this Transformer is No. 32 S.W.G. Lead. Fuse Wires of the correct type can be purchased from any Meccano dealer. It is important that Fuse Wires of higher current carrying capacity should not be used, as they would afford no protection to the Transformer.

As an extra safety precaution, it is advisable to connect the case of the Transformer to earth. This course is strongly recommended where the Transformer is to be used on a stone or concrete floor, or near earthed metal objects. To make this connection easy, an Earthing Screw is provided at the point where the flex from the mains enters the Transformer.

The large Output of this Transformer may be utilised to run two Meccano 20-volt Motors at the same time. The use of two Motors in this manner is of considerable value in large Meccano models of various types, especially cranes that incorporate a variety of movements.

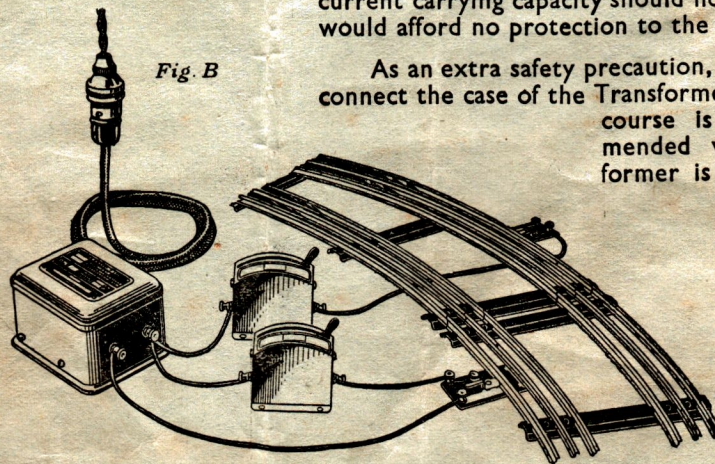


Fig. B

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