

LIONEL "Multi-Control" TRANSFORMERS

WITH BUILT-IN WHISTLE CONTROLLERS

No. 1032	115 Volts - 60 Cycles	75 Watts
No. 1033	115 Volts - 60 Cycles	90 Watts
No. 1032M	125 Volts - 50 Cycles	75 Watts
No. 1232	250 Volts - 50 Cycles	75 Watts

IMPORTANT: Before attempting to use any of these transformers make sure that the voltage and frequency of your power line corresponds to the rating of your transformer.



Figure 1—No. 1033 "Multi-Control" Transformer

Lionel Electric Trains and accessories operate on low voltage, ranging from 8 to 18 volts, depending on the size and type of the locomotive and the number of cars in the train. Lionel transformers reduce, or transform, the available house voltage to the low voltage required. The plug at the end of the transformer cord is plugged into any convenient wall outlet. The low voltage is then obtained from the output terminals. (See Figure 1.)

Lionel "Multi-Control" transformers are made in several models to operate on different power lines as listed above. If in doubt, check the voltage and frequency of your house power line with your electric company before attempting to operate your transformer. The wattage rating of these transformers is a measure of their capacity, or ability to furnish power. While your house current determines the rated voltage and frequency in cycles of the transformer, the wattage of the transformer that you need for your outfit is determined by the size of the train and the number of accessories you have in your model railroad system. The larger the train and the greater the number of accessories, the higher should be the wattage of your transformer. The capacity of the transformers listed in this leaflet is ample to run the outfits with which they are sold in addition to several small accessories. To assist you in estimating the number of accessories you may use, read the section on Voltage Requirements in your Instruction Booklet.

All Lionel transformers are provided with means of controlling voltage to the track so gradually that any train speed may be obtained. By turning the black voltage control arm on the transformer panel the train can be gradually accelerated or retarded in realistic fashion. Continuous voltage control is of particular advantage when operating trains with remote control couplers, operating cars, and similar accessories where precise train control is necessary.

HOW TO CONNECT TRANSFORMER

In order to get current from the transformer to the track one of the output terminals of the transformer must be connected to the track. This connection is generally made by means of a track Lockon, one of which is provided with each outfit. The Lockon is clipped onto a convenient straight section of track and is connected by wires to a pair of transformer output binding posts which furnish variable voltage.

The "Multi-Control" Transformers listed in this leaflet have four binding posts located on top of the transformers. Of these, "A-U" and "B-U" combin-

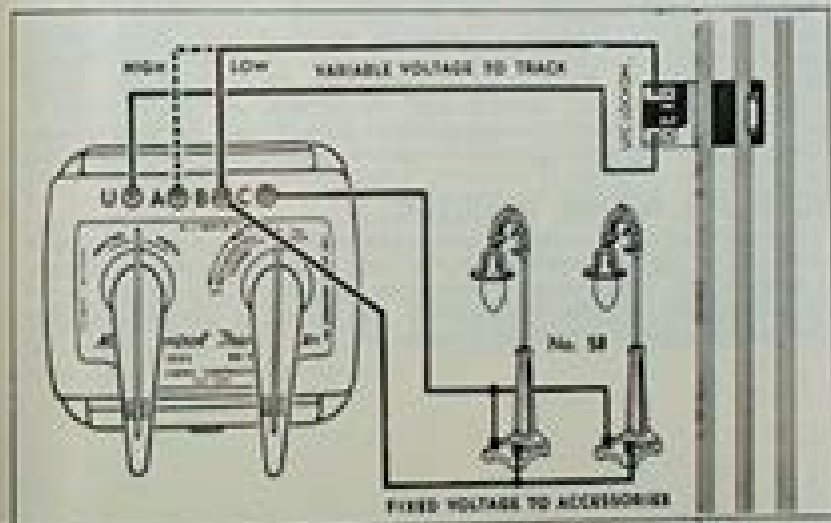


Figure 2—Track and Accessory Connection for "Multi-Control" Transformer.

Lionel Tw Transformer Manual

Susan Pauker, Bruce C. Greenberg



Lionel Tw Transformer Manual:

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The Electrical Review ,1952 **The Athenaeum** James Silk Buckingham,John Sterling,Frederick Denison Maurice,Henry Stebbing,Charles Wentworth Dilke,Thomas Kibble Hervey,William Hepworth Dixon,Norman Maccoll,Vernon Horace Rendall,John Middleton Murry,1907 **Wireless World and Radio Review** ,1955 **Athenaeum and Literary Chronicle** ,1907 *The Engineer* ,1961 *Books in Print Supplement* ,1973 **The British National Bibliography** Arthur James Wells,1955 *Greenberg's Repair and Operating Manual for Lionel Trains* Susan Pauker,Bruce C. Greenberg,1990 *Distribution Transformer Manual* General Electric Company. Commercial Distribution Transformer Department,General Electric Company. Residential Distribution Transformer Department,General Electric Company. Distribution Protective Equipment Department,19?? **Distribution Transformer Manual** General Electric Company. Distribution Transformer Products Department,General Electric Company. Protective Equipment Products Department,1975*
Greenberg's Repair and Operating Manual for Lionel Trains Susan Pauker,Bruce C. Greenberg,1981-06-01 *Lionel Train & Accessory Operating and Wiring Manual for "027", "0", Super "0".* ,197? **Complete Service Manual for Lionel Trains** Aurotech, inc,1978

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