

# How to Operate

## LIONEL TYPE ZW TRANSFORMER

115 Volts                      60 Cycles                      275 Watts

### Alternating Current Only

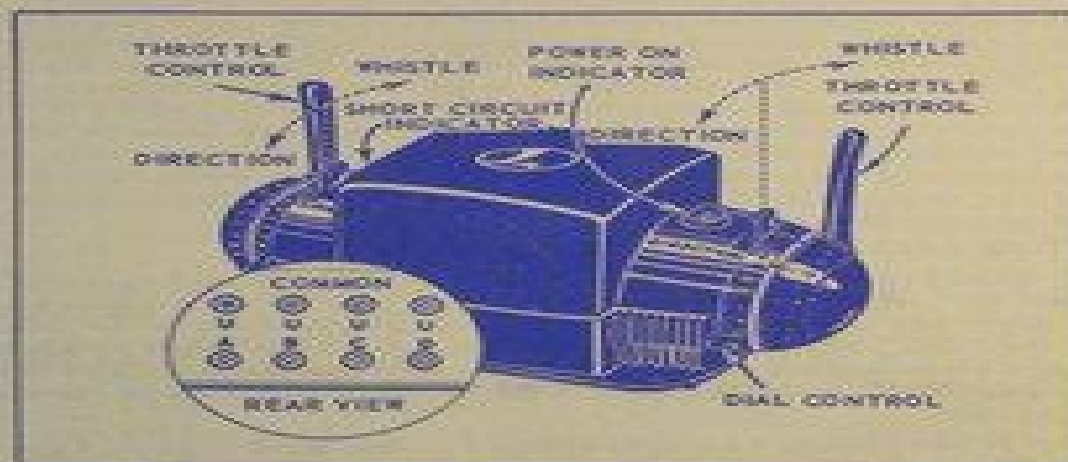


Figure 1- Type ZW "Multi-Control" Transformer

Lionel electric trains operate on low voltage, ranging from 8 to 18 volts, depending on the size and type of the locomotive and the number of cars and accessories used. 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 of required voltage and frequency and the low voltage is then obtained from the output terminals at the rear of the transformer.

Type "ZW" Multi-Control Transformers are made to operate on 115-volt 60-cycle alternating current, which is the normal house power supply used in the United States. The wattage rating of the "ZW" Transformer is 275 watts. The wattage of a transformer is a measure of its 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 you need is governed by the kind and number of trains and the number of lights and operating accessories in your model railroad system. The larger the train and the greater the number of accessories, the more power you need and the higher should be the wattage rating of the transformer. To assist you in planning your railroad system, the instruction Booklet lists the power in watts required by each Lionel locomotive and accessory.

# Lionel Zw 275 Watt Transformer Manual

**L Reisser**



## **Lionel Zw 275 Watt Transformer Manual:**

**Model Railroad Craftsman** ,1982    **Model Railroader** ,1963    *Playthings* ,1960    **Blue Book of Quality Merchandise** Bennett Brothers,1961    **The Gannetteer** ,1963    **Greenberg's Repair and Operating Manual for Lionel Trains** Susan Pauker,Bruce C. Greenberg,1990    *Greenberg's Repair and Operating Manual for Lionel Trains* Susan Pauker,Bruce C. Greenberg,1981-06-01    **Complete Service Manual for Lionel Trains** Aurotech, inc,1978

**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 Lionel Service Manual* I. D. Smith,1984-01-01 Based on Lionel service manual sheets this four volume set features troubleshooting and repair instructions for products made between 1945 and 1969 Covers Lionel locomotives tenders passenger and freight cars track switches transformers trucks and accessories Includes exploded product illustrations diagrams parts numbers descriptions and original prices    *Manual on Transformers* M. Vijayakumaran (Technical expert),India. Central Board of Irrigation and Power,2013    *Radio Set Replacement Transformer Manual* United Transformer Corporation,1945    *Instructions For Operating Lionel Trains 1940* Lionel Corporation,Lionel Corporation Staff,1997-12-01

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