

HOW TO OPERATE LIONEL TYPE KW "MULTI-CONTROL" TRAINmaster TRANSFORMER

115 Volts 60 Cycles 190 Watts
Alternating Current Only

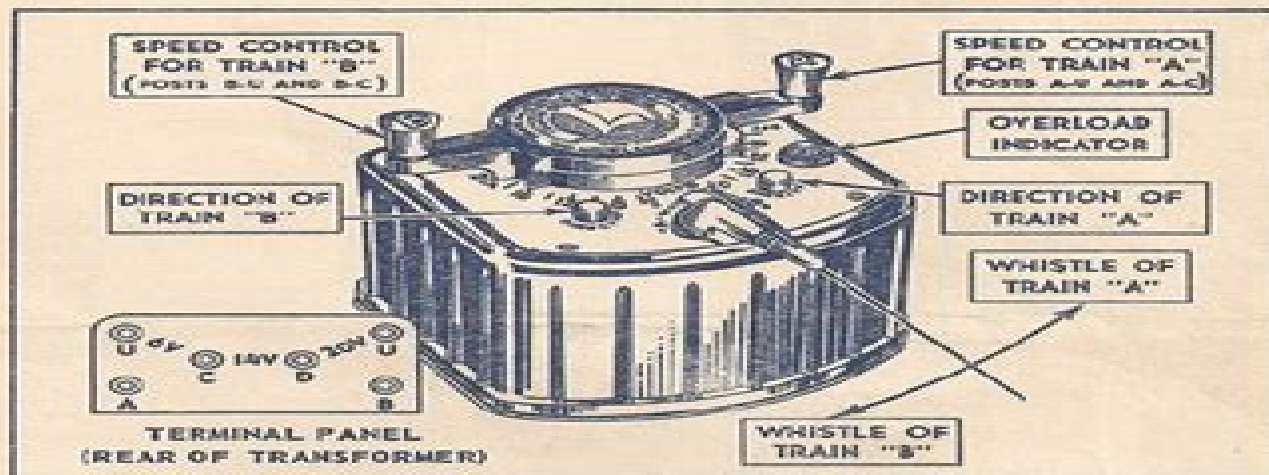


Figure 1—Type "KW" Multi-Control Transformer

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 and the low voltage is then obtained from the output terminals at the rear of the transformer.

Type "KW" 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 "KW" transformer is 190 watts, and it is powerful enough to operate a railroad system with two trains and several switches and accessories. 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 your transformer. To assist you in planning your railroad system, the Instruction Booklet lists the power in watts required by each Lionel locomotive and railroad accessory.

Lionel Kw Transformer Repair Manual

Tobias Bleicker



Lionel Kw Transformer Repair Manual:

Lionel Accessories at Work on Toy Train Layouts Neil Besougloff,2006 Add classic accessories to your toy train layout Lionel s operating accessories from the 1940s and 50s remain popular with toy train enthusiasts This book provides a variety of ways to incorporate them both originals and modern reproductions into toy train layouts The book features track plans that incorporate the accessories repair information and in depth profiles of the most popular accessories **Model Railroad Craftsman** ,1985 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1967 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December Popular Electronics ,1977 **Model Railroader** ,1963 QST ,1962 **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office,1964-07 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1964 **CQ** ,1978 **Ham Radio** ,1975 Amateur Radio ,1978 *Transformer Maintenance Guide* Mike Horning,Joseph J. Kelly,Scott Myers,2001-01-01 **Transformer Maintenance Guide** Mike Horning,Joe Kelly,Scott Myers,Randy Stebbins,2004 **A Guide to Transformer Maintenance** Stanley D. Myers,Joseph J. Kelly,Robert H. Parrish,1981 **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* Manual on Transformers M. Vijayakumaran (Technical expert),India. Central Board of Irrigation and Power,2013 **Step-by-step Repair Manual for General Electric** ,1981 Repair Manual Technical Manuals Division,1969 Transformer Maintenance and Test Guide Doble Engineering Company,1984

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