

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

**115 Volts                      60 Cycles                      190 Watts**  
**Alternating Current Only**

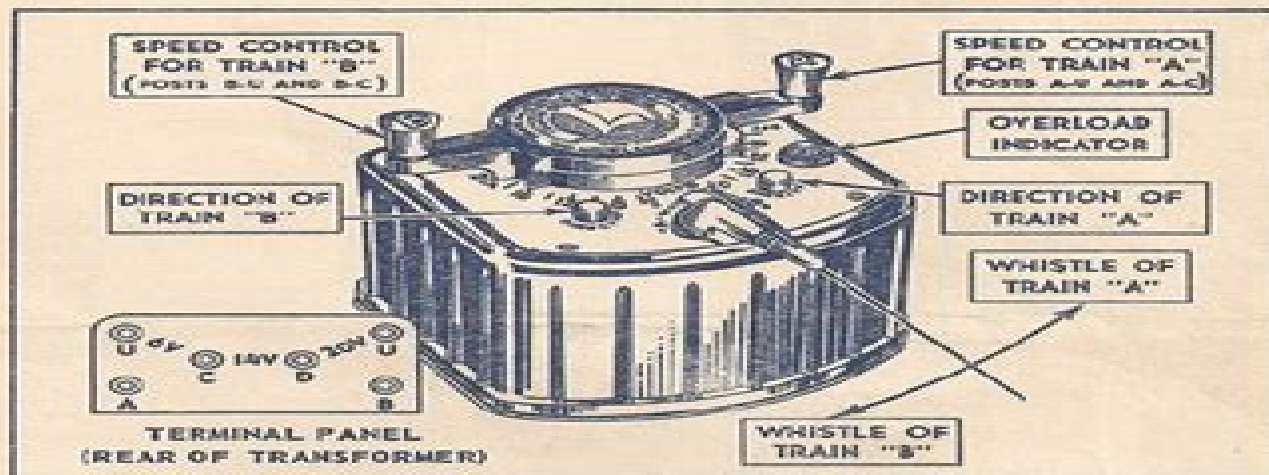


Figure 1—Type "KW" Multi-Control Transformer

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.

# Kw Transformer Manual

**Harold Pender, William Arthur Del Mar**



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