FOR YOUR PROTECTION

1. Never reverse locomotive without stopping it first. To do so may damage the locomotive engine.
2. Never connect locomotive to AC terminals of your TECH II RAILMASTER 2400. This may damage your locomotive.
3. Turn power switch off at end of day's operation.
4. When a short circuit or current overload occurs and circuit protector trips, turn the TECH II RAILMASTER 2400 off and correct the short or overload. Allow 2–5 minutes for the thermal circuit protector to reset before turning your unit back on.
5. Avoid prolonged overloads and short circuits. While your TECH II RAILMASTER 2400 is equipped with several safety devices to prevent accidental damage due to short circuits and overloads, it is unsafe to subject it to these frequencies often.

CAUTION—ELECTRICALLY OPERATED PRODUCT.

NOT RECOMMENDED FOR CHILDREN UNDER 8 YEARS OF AGE. AS WITH ALL ELECTRIC PRODUCTS, PRECAUTIONS SHOULD BE OBSERVED DURING HANDLING AND USE TO REDUCE THE RISK OF ELECTRIC SHOCK.

INPUT - 120VAC 60Hz OUTPUT - 14VDC, 18.5VAC, 15VDC TOTAL - 17VA

OPERATING INSTRUCTIONS FOR MODEL 2400

CONGRATULATIONS!

You have just purchased one of the most advanced train controls on the market. MRC's new TECH II RAILMASTER 2400 with Proportional Tracking Control (PTC) is the latest in powerpack technology. PTC is a new system developed by MRC that allows a light connection between locomotive and power pack. The result is a level of performance previously unattainable. The TECH II RAILMASTER 2400 is a high power non-motorized version of the TECH II Series and includes such features as Automatic Pulse Injection, advanced non-thermostatic housing, human engineered controls, Automatic Pulse injection On/Off Switch, and much more. As you operate your layout with the new TECH II RAILMASTER 2400, you will grow to appreciate the engineering and thought that went into its design. It is a tight connection between the power pack and locomotive, and the realism, will impress you and satisfy the most avid railroadfan. As always, our old friends will expect and receive the best in quality and performance. This is your first purchase of an MRC product, we wish to welcome you to the ever growing ranks of those who purchase and use the best in Model Railroading Power Supplies. MRC

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Model Rectifier Corporation
80 Newfield Avenue, Edison, NJ 08837
(732) 225-6300

SPECIFICATIONS:
INPUT - 120VAC, 60Hz
OUTPUT - 14VDC, 18.5VAC, 15VDC - All no load ratings
TOTAL OUTPUT - 17VA

PULSE FREQUENCY - 60Hz

CONTROL SYSTEM - MRC'S PROPORTIONAL TRACKING CONTROL

SLOW SPEED CONTROL - Extremely slow speed control is accomplished by the use of Automatic Pulse Injection. Pulses gradually disappear when the train is no longer needed.

MOUNTING - Your TECH II RAILMASTER 2400 may be placed on a flat surface during operation. Its operating panel is human engineered for most comfortable usage. Built-in feet allow cooling space underneath the unit. If you wish to mount your TECH II RAILMASTER 2400, we suggest using the driving follow to layout the mounting locations. Drill 5/32-inch holes where indicated and install 1/4-inch long #32 screws from the bottom. A nut should be placed on top of the screws and tightened. If you follow this template, the holes in the bottom of the TECH II RAILMASTER 2400 will fit neatly on the remaining length of the screws. In order to move the unit, just lift it off the screws and you can move it to another location.

INDICATORS

THROTTLE CONTROL - The throttle is used to set the speed of the locomotive you are controlling. The throttle should always be brought to zero before reversing locomotives.

POWER MONITOR - The power monitor is used to give an approximate indication of output voltage. You will find this very useful in detecting shorts, opens on your track, etc. The left-hand light in an "On" position and the right-hand indicator is maximally inserted as the locomotive continues to run, this indicates less current is being drawn. If the light becomes less intense, more current is being drawn. If the light goes out suddenly, this indicates a short circuit and will shortly be followed by the light of the overload indicator. A sudden brightening of the light may signal an open circuit, meaning that power is no longer reaching your locomotive. This is probably due to dirt or dirt accumulation on the track. A slight flickering of this light during operation is normal and does not indicate a problem.

OVERLOAD INDICATOR - Your TECH II RAILMASTER 2400 is equipped with a sensitive thermal circuit protector. In the event of a short circuit or overload, the circuit protector will trip and begin to cycle on and off. Your overload indicator will light and cycle with the protector giving a visual indication of a problem. When this occurs, turn your unit off, check the source of the short circuit or overload, wait 2–5 minutes for the circuit protector to reset, then turn the unit back on. If the overload indicator is still on, you have either failed to correct the source of the short circuit or overload, or you have not waited long enough for the circuit protector reset.

TERMINALS

VARIEABLE DC - These terminals are for attachment of your TECH II RAILMASTER 2400 to the main line of your layout. If the direction of your locomotive does not match the position of the Direction Switch, simply reverse the wires going to these terminals.

ACCESSORIES AC - These terminals supply AC voltage for use with AC accessories. Polarity does not matter.

FIXED DC - These terminals supply DC voltage for use with Cab Controls and DC accessories.

NOTES: When connecting to any terminal, care must be taken that wires don't touch any terminal at all time. Loose wires are a danger to your unit and layout. The wires must be properly wrapped around terminal before tightening screws.

PARENTS, PLEASE NOTE: As with any electrically operated unit, it is always best to periodically examine it and replace or replace any potentially hazardous parts.