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™ RAILPOWER 1400. This may damage your locomotive motor.

3. Turn power switch off at end of day's operation.

4. When a short circuit or current overload occurs and the circuit protection device trips, place the TECH II™ RAILPOWER 1400 on–off switch in the "off" position, place the throttle in the STOP position and correct the short or overload. Allow 2–5 minutes for the circuit protection device to reset before turning your unit back on.

5. Avoid prolonged overloads and short circuits. While your TECH II™ RAILPOWER 1400 is equipped with several safety devices to prevent accidental damage due to short circuits and overloads, it is unwise to subject it to these frequently or often.

6. Do not store in damp area.

7. For best performance, keep wheel and track surfaces clean. Intermittents and "jerky" operation are often caused by an oxide coating which has formed on the track or wheels.

8. Before returning your unit for repair or servicing, make certain it is defective. Do not shut down your layout unnecessarily.

9. If it is necessary to return your unit, repack it in its original carton and then in an outer carton, placing at least four inches of packing material on each side. Mail the unit to:

MODEL RECTIFIER CORPORATION
80 Newfield Avenue
P.O. Box 6312
Edison, N.J. 08818-6312

Be certain to send the unit Parcel Post Insured or United Parcel Service, and include a letter with your name and address printed clearly, describing the problem you are experiencing.

All of us at MRC would like to join in wishing you many happy years of model railroading with your new TECH II™ RAILPOWER 1400.

MODEL RECTIFIER CORPORATION

Printed in U.S.A. INS–1272

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, 18VAC TOTAL– 13VA

TECH II
RAILPOWER 1400

OPERATING INSTRUCTIONS FOR MODEL 1400

CONGRATULATIONS!

You have just purchased one of the most advanced train controls on the market. MRC's new TECH II™ RAILPOWER 1400 with Proportional Tracking Control™ (PTC) is the latest in powerpack technology. PTC is a new system developed by MRC that allows a tight connection between locomotive and power pack. The result is a level of performance previously unattainable. The TECH II™ RAILPOWER 1400 is a high power non–momentum version of the TECH II™ Series and includes such features as advanced Noryl ® thermoplastic housing, human engineered controls, and much more. As you operate your layout with the new TECH II™ RAILPOWER 1400, you will grow to appreciate the engineering and thought that went into its design. The tight connection between the power pack and locomotive, and the realism, will impress you and satisfy the most avid railroader. As always, our old friends will expect and receive the best in quality and performance. If 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.

Model Rectifier Corporation
80 Newfield Avenue, Edison, NJ 08837
(732) 225-6360

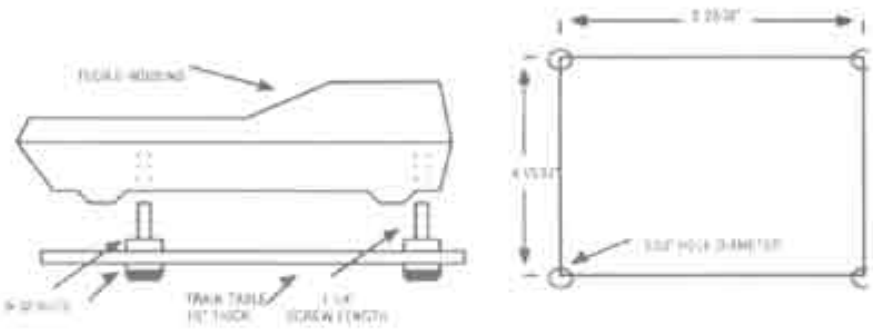
SPECIFICATIONS:
INPUT – 120VAC, 60Hz
OUTPUT – 14VDC, 18 VAC – All no load ratings
TOTAL OUTPUT – 13VA

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 they are no longer needed.

MOUNTING – Your TECH II™ RAILPOWER 1400 may be placed on a flat surface during operation. Its operating panel is human engineered for most comfortable operation. Built–in feet allow cooling space underneath the unit. If you wish to mount your TECH II™ RAILPOWER 1400, we suggest you use the drawing below to layout the mounting locations. Drill 5/32 inch holes where indicated and install 1–1/4 inch long 8–32 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™ RAILPOWER 1400 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.



CONTROLS

MASTER SWITCH – The master on–off switch disconnects the input power from your TECH II™ RAILPOWER 1400 and shuts the unit down completely.

DIRECTION SWITCH – The direction switch reverses the polarity of voltage applied to the track and thereby reverses the direction of your locomotive. This switch should only be operated when the locomotive is not moving.

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.

INDICATORS

POWER MONITOR –The power monitor is used to give an approximate indication of output voltage. You will find this very useful in detecting shorts, open circuits on your track, etc. If the throttle is left in an "on" position and the light intensity increases, this indicates less current is being drawn. If the light becomes less intense, more current is being drawn. 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 oxidation on the track. If the light goes out suddenly, this indicates that a short circuit has occurred and will be followed by the circuit protection device cutting off the power. A slight flickering of this light during operation or during switching is normal and does not indicate a problem.

TERMINALS

VARIABLE DC – These terminals are for attachment of your TECH II™ RAILPOWER 1400 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.

NOTE: When connecting to any terminal, care must be taken that wires do not touch more than one terminal at one time. Loose wires are a danger to your unit and layout; be certain wires are 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 have repaired or replaced any potentially hazardous part.