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™ LOCO-MOTION
   1500. 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 circuit protector trips,
   turn the TECH II™ LOCO-MOTION 1500 off and correct the short or over-
   load. 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™
   LOCO-MOTION 1500 is equipped with several safety devices to prevent acci-
   dental 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. Intermit-
   tents 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.

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 – 22VDC, 17VAC, 20VDC  TOTAL – 12VA

OPERATING INSTRUCTIONS FOR MODEL 1500

CONGRATULATIONS!

You have just purchased one of the most advanced train controls on
the market. MRC's new TECH II™ LOCO-MOTION 1500 with Pro-
portional Tracking Control™ (PTC) is the latest in powerpack tech-
ology. 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™
LOCO-MOTION 1500 is a high power non-momentum version of
the TECH II™ Series and includes such features as advanced mo-
momentum version of circuitry, pump type spring loaded brake, high
grade, Noryl @ thermoplastic housing, human engineered controls,
and much more. As you operate your layout with the new TECH II™
LOCO-MOTION 1500, 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.

®Registered Trade Mark of General Electric Corporation.

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

MODEL RECTIFIER CORPORATION

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PARENTS' PLEASE NOTE: As with any electrically operated unit, it is potentially hazardous. Always review the maximum position of the controls. Setting the speed to 100 will produce nearly full acceleration, good for a short time, but also for long periods of time. Using full acceleration for a long period of time can damage the electric motor. Always ensure the TEC1 II/LOC0-MOTION 1500 is off when changing speeds or directions.

**TERMINALS**

The terminals are marked with labels indicating their function. The positive terminal is marked with a (+) symbol, and the negative terminal is marked with a (-) symbol. The terminals are used for connecting the power supply and the control signals.

**CONTROLS**

- **Throttle Control:** The throttle control is used to set the speed of the locomotive. The speed is increased or decreased by rotating the control.
- **Power Control:** The power control is used to adjust the power output of the locomotive. The power can be increased or decreased by rotating the control.
- **Direction Switch:** The direction switch is used to change the direction of the locomotive. The switch can be set to forward or reverse.
- **Momentum Switch:** The momentum switch is used to change the momentum of the locomotive. The switch can be set to high or low momentum.
- **Master Switch:** The master switch is used to turn the locomotive on and off.

**INDICATORS**

- **Motor Speed:** The motor speed is indicated on the control panel.
- **Battery Level:** The battery level is also indicated on the control panel.
- **Temperature:** The temperature of the locomotive is indicated on the control panel.

**SLOW DOWN OPTIONS**

- **Pump Type Brake:** The pump type brake is used to slow down the locomotive. The brake is activated by pressing a button on the control panel.
- **Electronic Speed Control:** The electronic speed control is used to adjust the speed of the locomotive.
- **Propulsion System:** The propulsion system is used to control the direction and speed of the locomotive.

**SPECIFICATIONS**

- **Power Requirement:** 60 Hz
- **Input Current:** 12 A
- **Output Frequency:** 12 VDC
- **Output Power:** 12 VDC, 2200 W
- **Input Voltage:** 12 VDC
- **Input Current:** 60 A

The locomotive is designed to operate on standard railway tracks and can be used for both freight and passenger services.