

### For Your Protection

1. Never reverse a locomotive without stopping it first. To do so may damage the locomotive motor.
2. Never connect a locomotive to the AC terminals of your Tech 4 unit. This may damage your locomotive motor.
3. Turn power switch off at the end of the day's operation.
4. When a short circuit or current overload occurs and the circuit protection device trips, place the Tech 4 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. Your Tech 4 is equipped with safety devices to prevent accidental damage due to short circuits and overloads but it is unwise to subject the unit to these frequently.
6. Children under the age of ten should be supervised by an adult when operating this product.
7. For best performance, keep wheel and track surfaces clean. Intermittent and "jerky" operation is often caused by an oxide coating, which has formed on the track or wheels.

Model Rectifier Corporation  
80 Newfield Avenue, Edison, NJ 08837-3817

## Caution - Electrically Operated product.

**As with all electrical products,** precautions should be observed during handling and use to reduce the risk of electric shock.

# TECH<sup>TM</sup>

Operating instructions for Model 280

Not recommended for children under 8 years of age.

**Parents, please note:** As with any electrically operated unit, it is always best to periodically examine it and have any potentially hazardous part repaired or replaced.



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### **CONGRATULATIONS!**

You have just purchased one of the most advanced train controls on the market. You'll find that no other power pack series in the world has all of these advanced features including MRC's Accu Tec Technology combined with the highly acclaimed Proportional Tracking Control™ (PTC) system. In addition, the Tech 4 offers precise slow speed control and a high grade advanced engineering resin thermoplastic housing for durability and safety. We are confident that you will enjoy using your new Tech 4 now and for many years to come.

#### **Specifications:**

**Model 280:**

**INPUT:** 120VAC 60Hz

**OUTPUT:** Cab 1: 14.5VDC, Cab 2: 14.5VDC, 14.8 VAC

**Total Output:** Cab 1: 8.5VA; Cab 2: 8.5VA

#### **Warning:**

Children under the age of ten should be supervised by an adult when operating this product.

**Control System:** MRC's Proportional Tracking Control (PTC) and Accu Tec Technology.

#### **Controls:**

**Power Switch:** The master On-Off switch disconnects the input power from your Tech 4 and shuts the unit down completely.

**Direction Switches:** Each switch reverses the polarity of voltage applied to the specific track and thereby reverses the direction of your locomotive. The switches should only be operated when locomotives are not moving.

**Throttle Control:** All Tech 4 units have a throttle that is used to set the speed of the locomotive you are controlling. The throttle should always be brought to zero before reversing locomotives.

#### **Indicators:**

**Pilot Light:** The Tech 4 280 has a pilot light for each cab unit. The LED will glow when the power switch is in the ON position and power is feeding to each track.

#### **Terminals:**

**Cab 1 and Cab 2:** These terminals are for attachment of your TECH 4 280 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 a time. Loose wires are a danger to your unit and layout. Be certain wires are properly wrapped around terminals before tightening screws.

#### **Service:**

Your Tech 4 has been thoroughly tested at the factory. If for some reason your Tech 4 is properly connected and still does not function properly, it may have to be returned for service. If you have any questions please call the MRC customer service number 732-225-6360.

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. Be certain to send the unit Parcel Post Insured or United Parcel Service and include a clearly printed letter with your name, address and daytime phone number, along with a description of the problem you are experiencing. Please include Visa or Master Card account number or a money order in the amount of \$5.00 for shipping and handling. Mail unit to:

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