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 7 unit. This may damage the locomotive motor.
3. Turn OFF the power switch 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 7 on-off switch in the OFF position, place the throttle in the STOP position, and correct the short or overload.
5. Avoid prolonged overloads and short circuits. Your Tech 7 is equipped with safety devices to prevent accidental damage due to these conditions, but it is unwise to subject the unit to these frequently.
6. Children under the age of 14 must be supervised by an adult when operating this product.
7. For best performance, keep wheel and track surfaces clean. Dirty track and wheels can cause intermittent operation.

SERVICE:
This product carries a 2 year limited warranty. For full information see registration card enclosed. If it should become necessary to return the unit for warranty repair/replacement, please include a copy of the original sales receipt. Please include a letter (printed clearly) with your name, address, daytime phone number, and a detailed description of the problem you are experiencing. Please also include a check or a money order for $15.00 to cover return shipping and handling. If the unit is no longer considered under warranty, then please contact MRC service for a price quote to cover the cost of repair or replacement of the unit, and return shipping and handling. Customers outside the continental United States, including Hawaii, Alaska, Canada and Mexico, have to contact MRC for exact return shipping rates for both warranty and non-warranty repairs. Contact rrtech@modelrectifier.com.
Any questions regarding Warranty Policy or service issue can be directed to our Customer Service Department by calling 732-225-6360 between the hours of 8:30am and 6:00pm EST, or by emailing: rrtech@modelrectifier.com

Send the unit to:
Model Rectifier Corporation
Attn: Parts & Service
80 Newfield Avenue
Edison, NJ 08837-3817 U.S.A

Caution - Electrically Operated Product.

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

Operating instructions for Models 700, 760 and 780
As with any electrically operated unit, it is best to periodically examine it and have any potentially hazardous part repaired or replaced.

For use by ages 14 years and older.

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80 Newfield Avenue, Edison, N.J. 08837
(732) 225-6360 www.modelrectifier.com
You have purchased an advanced train control. The Tech 7 series 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 7 now and for many years to come.

**SPECIFICATIONS:**

**Model Ampac 700:**
- INPUT: 120 VAC 60 Hz
- OUTPUT: 15.5 VDC, 18.5 VAC
- TOTAL OUTPUT: 20 VA

**Model Ampac 760:**
- INPUT: 120 VAC 60 Hz
- OUTPUT: 23 VDC, 18.5 VAC
- TOTAL OUTPUT: 20 VA

**Model Ampac 780:**
- INPUT: 120 VAC 60 Hz
- OUTPUT: 14.5 VDC EACH THROTTLE @ 10VA, 14.8 VAC
- TOTAL OUTPUT: 20 VA

**WARNING:**
Children under the age of 14 must be supervised by an adult when operating this product.

**CONTROLS:**

**Power Switch:** The master on-off switch disconnects the input power from your Tech 7 and shuts the unit down completely.

**Direction Switch:** This 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 to prevent damage to the locomotive mechanism.

**Momentum Switch:** *(Model 760 only)* The momentum switch in your Tech 7 unit, allows operation in either of two modes. With the switch in the OFF position, a change in the throttle setting results in an immediate change in locomotive speed. With the momentum switch in the ON position the locomotive starts out more slowly like a real locomotive. This switch can substantially add to your model railroading enjoyment. When a real locomotive is given an increase in throttle setting there is a lag until the pre-set speed is reached. The heavier the load of the cars being drawn, the longer the lag time. Similarly, when braking a real locomotive, a considerable distance is needed in order to stop. Since lightweight models do not mimic this delay on their own, momentum circuitry, as in this pack, is used to create it electrically.

**Pressure Sensitive Brake:** *(Model 760 only)* The brake in your Tech 7 unit, is a push switch. To operate the brake, push down on the switch. As you hold the switch the locomotive will continue to slow down. If your throttle was left at a setting other than 0, releasing the brake will cause the locomotive to gradually accelerate to the speed determined by the throttle setting *(as long as the momentum is in the “ON” position).*

**Throttle Control:** All Tech 7 units have a throttle that is used to set the speed of the locomotive.

**INDICATORS:**

**Pilot Light:** All Tech 7 units have a PILOT LIGHT that is a Light Emitting Diode (LED). The LED will glow when the power switch is in the ON position. The model 780 has two pilot lights.

**Momentum:** *(Model 760 only)* Your Tech 7 is equipped with an LED indicator to make you aware of when the momentum switch is in the ON position. This LED will glow whenever momentum is engaged, even if the locomotive is not moving.

**Overload Indicator:** *(Model 760 only)* In the event of a short circuit or overload, the circuit protector will trip. Your overload indicator will light giving a visual indication of a problem.

**TERMINALS:**

**Variable D.C.:** These terminals are for the attachment of your Tech 7 to the mainline of your layout. If the direction of your locomotive does not match the position of your direction switch, simply reverse the wires going to these terminals.

**Accessories A.C.:** 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. Also note that the output terminal screws can get hot during periods of peak use.