

**CAUTION – ELECTRICALLY
OPERATED PRODUCT**
**AS WITH ALL ELECTRICAL PRODUCTS,
PRECAUTIONS SHOULD BE OBSERVED
DURING HANDLING AND USE TO
REDUCE THE RISK OF ELECTRIC SHOCK.**

TECHTM7
AMPAC SERIES

Operating instructions for Models 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.

**NOT RECOMMENDED FOR CHILDREN
UNDER 14 YEARS OF AGE**

Model Ampac 760:

INPUT: 120 VAC 60Hz
OUTPUT: 23 VDC, 18.5 VAC
TOTAL OUTPUT: 20VA

Model Ampac 780:

INPUT: 120VAC 60 Hz
OUTPUT: 14.5 VDC – EACH THROTTLE
AT 10VA, 14.8 VAC
TOTAL OUTPUT: 20VA

©2021 Model Rectifier Corporation
360 Main Street, Suite 2
Matawan, NJ 07747
732-225-6360 www.modelrectifier.com

Updated: June 9, 2021



You have purchased an advanced train control. The Tech 7 series offers precise slow speed control and a high-grade housing for durability and safety. We are confident that you will enjoy your Tech 7 for many years.

WARNING:

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

CONTROLS:

Power Switch: (Model 760 & 780) The master ON-OFF switch disconnects the input power from you Tech7 and shuts the unit down completely.

Direction Switch: (Model 760 & 780) 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 to stop. Since lightweight locomotives 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 760 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: Tech 7 units have a throttle knob that is used to set the speed of the locomotive. The 780 has two throttles, one for each output.

INDICATORS:

Pilot Light: 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 wire does not touch more than one terminal at a time. Loose wires are a danger to your unit and layout. Be certain that wires are properly wrapped around terminals before tightening screws. Also note that the output terminal screws can get hot during periods of peak use.

FOR YOUR PROTECTION

- Never reverse a locomotive without stopping it first. To do so may damage the locomotive motor.
- Never connect a locomotive to the A.C. terminals. This will damage the locomotive.
- Turn OFF the power switch and remove line cord plug from your home outlet at the end of each use.
- 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.
- Avoid prolonged overloads and short circuits. 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.
- Keep wheel and track surfaces clean. Dirty track and wheels can cause intermittent operation.

The three-year limited warranty* does not include return shipping for customers outside of the continental United States (including Hawaii, Alaska, Canada, and Mexico).

Questions regarding the three-year limited warranty* policy or troubleshooting issues can be directed to MRC Customer Support by calling 1-732-225-6360 from Monday to Friday, between 8:00 AM and 5:00 PM EST, or by emailing mrcsupport@modelrectifier.com

To receive warranty service, we require a copy of the original sales receipt to validate the warranty period. Include a note briefly describing the issues along with your name, address, phone number, and email address.

***THREE YEAR LIMITED WARRANTY**

Model Rectifier Corporation (MRC) will, subject to the conditions explained and set forth below, repair at its expense, within three calendar years from the date of sale, any component of this MRC product which is proven defective by reason of improper workmanship or materials. MRC will repair said component(s) without charge for necessary parts or labor. If the unit cannot be repaired, it will be replaced with another unit or similar product of equal or greater value.

CONDITIONS

1. Limitation to original purchaser and proof of date of purchase: The obligations of MRC set forth herein shall only extend to the original purchaser. The burden of proof as to the date of purchase is on the purchaser, thus it is recommended that you retain your bill of sale or sales receipt and include it with the return of your product, keeping a copy of the same for your records. This bill of sale or sales receipt must have the date of purchase and the name and address of the dealer.
2. Validation of the Warranty: The validity of the above state warranty is contingent upon purchaser possessing an original copy of the sales receipt that shows the product's name and/or model number, purchase date, name of the dealer, and the address of the dealer. The burden of proof rests with the purchaser of the product.
3. Exclusions from Warranty: The warranty does not apply to (a) any marring, scratching, or defects in decoration and/or finish, (b) any damage resulting from misuse, abnormal service, water, or weather damage, (c) any damage incurred in shipping and handling, (d) any incidental or consequential damage(s) caused by or resulting from a defect in material or workmanship or other equipment failure, (e) any damage arising from the product not being used in accordance with the instructions provided. Your sole remedy shall be repair or replacement as herein above expressed. Under no circumstances shall MRC be liable for any losses or damage, direct or consequential, arising out of the use of or inability to use this MRC product. No implied warranty shall continue beyond the three years from the date of purchase. Further, any modification, alteration, or tampering with the MRC product or any repair other than that done at the factory automatically voids the warranty.
4. Notice: Some states do not allow limitations on how long an implied warranty lasts or the inclusion of limitation of incidental or consequential damages, so the above state limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.
5. Customers outside the continental United States, including Hawaii, Alaska, Canada, and Mexico, must contact MRC for return shipping rates for both warranty and non-warranty repairs. Email us at mrctsupport@modelrectifier.com