

# Caution - Electrically Operated Product.

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



## THROTTLEPACK AC100

### AC HIGH POWER TRAIN CONTROLLER

**For use by ages 14 years and older.**

As with any electrically operated unit, it is best to periodically examine it and have any potentially hazardous part repaired or replaced.



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## CONGRATULATIONS

You have purchased one of the most advanced train controls on the market. The Throttlepack AC100 offers precise slow speed control, no hesitation when sounds are activated, and a high grade advanced engineering resin thermoplastic housing for durability and safety. We are confident that you will enjoy using your new Throttlepack AC100 now and for many years to come.

### Specifications:

INPUT: 120 VAC 60 Hz

TRACK OUTPUT: 0-19 VAC

ACCESSORY OUTPUT: 18 DC Fixed

TOTAL OUTPUT: 100 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, (mounted on the left side of the cabinet), disconnects the input power from your Throttlepack AC100 and shuts the unit down completely. When the power switch is turned on the pilot indicator LED will light, indicating there is track power available, **(There will be a slight delay until the unit completely powers up).**

**Direction Button:** The direction button disables the voltage applied to the track and thereby reverses the direction of your locomotive. Pressing the direction button once will cause the loco to idle. Pressed again, the locomotive will travel in the opposite direction. However, the locomotive will reverse direction after the throttle control is turned to 0 and the throttle control advanced twice. This button will not control locomotives that do not have an E-unit or if the E-unit is deactivated. If you are going to operate the locomotive in one direction, such as on a layout with automatic station stops or insulated blocks, the E-unit must be turned off and the direction button will be inoperative.

**Throttle Control:** The throttle is used to set the speed of the locomotive you are controlling. Remember, if your locomotive is equipped with an E-unit, the locomotive will change its directional state after the speed control is turned to 0 and the speed control is advanced again.

**Horn/Whistle Button:** To activate a horn or whistle on your locomotive, push the button. The sound will stay on as long as the button is held down.

**Bell Button:** To activate the bell on your locomotive, if equipped, press and hold the button until the bell sounds. The bell will remain activated until you press and hold the button to deactivate the bell. If your locomotive is equipped with an on board sound system, you can activate the sounds by pushing the sound buttons accordingly. If the sounds do not correspond to the appropriate buttons, reverse the wires going from the unit to track lock-on. If your locomotive has a variety of sounds, please refer to your locomotive/sound instructions for sound activation.

**Indicators:**

**Overload Indicator:** In the event of a short circuit or overload, the circuit protector will trip. Your overload indicator LED will light, and flash giving a visual indication of a problem. See point 4 for further instructions.

**Pilot Indicator:** Shows the unit is turned on and track power is available.

**Power Monitor:** As the throttle is increased the Power Monitor indication will gradually become brighter until full voltage is reached.

**Terminals:**

Make sure that the green four terminal right angle plug is firmly inserted into the rear of the cabinet. Using a small flat-bladed screwdriver, attach two wires (18 AWG or heavier) from the Main Track layout to the terminals marked “**TRACK**”, and two wires from any of your accessories to the terminals marked “**ACC**”. Strip the wire approx. 1/8”, and insert it into each of the plug gates facing you and then tighten the screws securely.

**Track Terminals:** These terminals go from the Throttlepack AC100 to your track or lock-on. If the whistle/horn and bell does not operate in conjunction with its appropriate button after making this connection, reverse the connections to the track or lock-on. It is important that either 16 or 18 gauge wire be used to make connections from the pack to the track. 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.

**Accessories DC:** These terminals supply DC voltage for use with accessories. Be careful to observe polarity when hooking up accessories. The output of the accessories DC voltage will be determined by the position of the scale/gauge switch, located on the bottom of the cabinet.

**Walk Around Plug:** Located in the front of the cabinet is a plug for the optional tethered handheld with memory. (MRC Part No. 0001317).

**For your safety-Plug the wall cord firmly into the rear of the cabinet, before plugging it into a wall outlet.**

1. Never reverse a locomotive without stopping it first. To do so may damage the locomotive motor.
2. Turn OFF the power switch at the end of the day's operation, and remove the wall cord from the socket.
3. When a short circuit or current overload occurs and the circuit protection device trips, place the Throttlepack AC100's on-off switch in the OFF position, place the throttle in the STOP position, and correct the short or overload.
4. Avoid prolonged overloads and short circuits. Your Throttlepack AC100 is equipped with safety devices to prevent accidental damage due to these conditions, but it is unwise to subject the unit to these frequently.
5. Children under the age of 14 must be supervised by an adult when operating this product.
6. For best performance, keep wheel and track surfaces clean. Dirty track and wheels can cause erratic operation.

***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 Model Rectifier Corporation 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 [doug@modelrectifier.com](mailto:doug@modelrectifier.com). Any questions regarding Warranty Policy 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: [doug@modelrectifier.com](mailto:doug@modelrectifier.com).***

Send the unit to:

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