

## TERMINALS

There are four screw terminals on the rear of the unit. 2 are marked "NO CONNECTION" These are not to be used. The other 2 are marked "VAR AC", and "COM", these are connected to your track lock-on.

## VARIABLE AC TERMINALS

The terminal marked "VAR AC" is for attachment of your Throttlepack to the center rail of your track, [# 1 on your lock-on]. Connect the terminal marked "COM" to the outer rail, [# 2 on your lock-on]. If the whistle/horn and bell does not operate in conjunction with it's appropriate button after making this connection, reverse the connections to the rails from the Throttlepack. 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; be certain wires are properly wrapped around the terminal before tightening the screws. It is recommended that the power pack be turned off before doing any wiring. **Parents Please Note: As with any electrically operated unit, it is always best to periodically examine it and have repaired or replaced any potentially hazardous part.**

## SERVICE

Your Throttlepack train control has been thoroughly tested at the factory. If, for some reason, your Throttlepack is properly connected and still not functioning correctly, it may have to be returned for service. Please telephone our service department at (732) 225-6360 before returning your unit. If it should ever become necessary to return your system, pack both pieces of the unit in its original box prior to placing it in a larger carton. This is a very heavy unit and therefore requires at least 6 inches of packing material and a very sturdy outer carton. Be certain to send the unit via Mail (Insured) or United Parcel Service and include a clearly printed letter with your name, your address and daytime telephone number, and a detailed description of the problem you are experiencing. Please include a check or money order for \$12.00 for Shipping and Handling.

Send the unit to:

Model Rectifier Corporation  
Attn: Power Pack Service Dept.  
80 Newfield Avenue  
Edison, NJ 08837

*All of us at MRC would like to join in wishing you many happy years of model railroading with your new THROTTLEPACK!*



# THROTTLEPACK

Train Controller for AC Powered Trains #0001301



**CAUTION – ELECTRICALLY OPERATED PRODUCT**  
As with all electric products, precautions should be observed during handling and use to reduce the risk of electric shock

*For Your Protection*

- Not recommended for children under 12 years of age.
- Turn off the power switch when it is not in use.
- Do not use or store in damp areas.
- Do not open the cabinet and try to repair it by yourself.
- Never operate a DC powered locomotive with your THROTTLEPACK. This may damage your locomotive motor.

## ***Congratulations!***

You have just purchased an advanced AC train control power pack. MRC's THROTTLEPACK has all the power needed to run larger scales. MRC Sine Wave Technology will enhance the performance of your layout for many years.

### **Features**

- MRC Sine-Wave Technology assures compatibility with most AC loco sound systems
- Realistic throttle control
- Horn/whistle, bell and direction buttons
- Pilot light, master on-off switch
- Boost button for extra burst of power when needed

### **Electrical Specifications**

INPUT: 120 VAC, 60 Hz

OUTPUT: 0 to 24 VAC variable for track

64 Watts sustained power output

**It is recommended that you save your Throttlepack box and inserts.**

### **SET UP**

Your new Throttlepack train control comes with a separate power supply. Plug the barrel connector from the power supply into the back of the train controller, ["A.C. Input"]. Plug the power cord from the power supply into your wall outlet.

### **CONTROLS**

#### **\*MASTER ON/OFF SWITCH**

The master on-off switch disconnects the output power to the track. The pilot light will glow when the unit is turned on.

**\*NOTE-** It is best to also unplug the power supply from the wall socket when you are finished using your Throttlepack train controller for any length of time.

### **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**

This button is a spring return 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.

### **BOOST BUTTON**

This button is used to give an extra amount of voltage if you need it, for example if the train is starting to climb a long grade with a heavy train in tow. Pressing the button once locks the button into the boost mode. Pressing the button a second time unlocks the button, and turns the boost mode off.

### **BELL BUTTON**

This button is a spring return 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.

**SHORT CIRCUIT OR OVERLOAD** – Your MRC THROTTLEPACK is equipped with an automatic internal circuit breaker. Whenever a short circuit or overload occurs, the circuit breaker will trip and the unit will shut down immediately. Turn off the main power switch, remove the source of the short circuit or overload, wait approximately 1 minute, then turn the main power switch back on.