

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 9900

DC 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 9900 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 Throttlepack 9900 now and for many years to come.

Specifications:

INPUT: 120 VAC 60 Hz
INPUT: 220 VAC 50 Hz (outside U.S.)
OUTPUT: 0-15 VDC HO
 0-18 VDC G
 15/18 DC Fixed
TOTAL OUTPUT: 80 VA

Warning:

Children under the age of 14 should 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 9900 and shuts the unit down completely. When the power switch is turned on, one of the direction indicator LEDs will light, indicating there is track power available, (There will be a slight delay until the unit completely powers up). **Note:** Your Throttlepack 9900 will remember the last direction used after shutting it off.

Scale/Gauge Switch: Located on the bottom of the cabinet is a small micro-switch, slide this switch into position to match the output of the train controller to your layouts scale or gauge, (HO/N or O/G). By sliding the switch towards the front of the cabinet will put the unit in the O/G mode.

Direction Button: This button reverses the polarity of voltage applied to the track and thereby reverses the direction of your locomotive. This button should only be operated when the locomotive is not moving to prevent damage to the locomotive mechanism.

Momentum Button: The momentum button on your Throttlepack 9900, allows operation in either of two modes. With the button in the OFF position, (LED out) a change in the throttle setting results in an immediate change in locomotive speed. With the momentum button in the ON position, (LED on), the locomotive starts out more slowly like a real locomotive. This button 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.

Brake Button: The brake button on your Throttlepack 9900, is a momentary push button. To operate the brake, push down on the button and hold it there.

Your locomotive will slow at a steady rate. If your throttle was left at a setting other than 0, releasing the brake button 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). Pushing the brake will allow for a more gradual deceleration.

Throttle Control: Is used to set the speed of the locomotive. With the momentum button in the OFF position, your locomotive will immediately accelerate to the speed dictated by the throttle. In momentum ON, however, the brake should be applied slowing the locomotive. If the brake is not applied, but the throttle is turned down, the train will gradually coast to a stop.

Indicators:

Overload Indicator: In the event of a short circuit or overload, the circuit protector will trip. Both of your direction indicator LEDs will light, and flash alternately giving a visual indication of a problem. See point 4 for further instructions.

Terminals:

Variable DC: These terminals are for the attachment of your Throttlepack 9900 to the mainline of your layout. If the direction of your locomotive does not match the position of your direction LED's, simply reverse the wires going to these terminals.

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. 0001315).

Your new Throttlepack 9900 comes with a built in universal power supply that can be used safely in both inside and outside the U.S.A., (120 VAC/60 Hz or 220VAC/50Hz). For use outside the U.S.A. please replace the wall cord with one suitable for your type of wall outlet.

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

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 inch, and insert it into each of the plug gates facing you and then tighten the screws securely.

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.

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 9900'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 9900 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 should 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. 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.

Send the unit to:

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Attn: Parts & Service
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