



THROTTLEPACK 9900

DC HIGH POWER TRAIN CONTROLLER

Item: 0001310

Caution – Electrically Operated Product

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

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

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

SPECIFICATIONS

INPUT: 120 VAC 60 Hz / 220 VAC 50 Hz
OUTPUT*: 0 to 15 VDC HO/N
 0 to 18 VDC O/G
 15/18 DC Fixed
TOTAL OUTPUT: 80VA

CONGRATULATIONS

You have just purchased one of the most advanced train controls on the market today: The Throttlepack 9900. The Throttlepack 9900 runs all scales of DC operated locomotives and includes controls for braking, direction and momentum, all in 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.

CONTROLS FOR DC OPERATION

Power Switch: The master on-off switch is on the left side of the cabinet. OFF completely shuts down the unit. ON will power the track and a red LED will light. There will be a slight delay in the LED until the Throttlepack 9900 powers up.

***Scale/Gauge Switch:** On the bottom of the cabinet is a small micro-switch. Turn OFF the Throttlepack 9900 before toggling this switch. Slide this switch into the position to match the output of the train controller for your layouts scale or gauge, (HO/N or O/G). Sliding the switch towards the front of the cabinet will put the Throttlepack 9900 into the O/G mode. Placing the switch into the opposite direction sets the Throttlepack 9900 to the HO/N scales.

Momentum Button: The momentum button allows you to toggle the momentum on/off. With the momentum OFF a change in the throttle setting results in an immediate change in the locomotive speed. With the momentum ON, the locomotive starts out more slowly like a real locomotive. The LED will light when momentum is on. This feature 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.

Brake Button: The brake button on your Throttlepack 9900 is a momentary push button. Hold down the brake button to operate the brake function. Your locomotive will slow at a steady rate. To have a more gradual decrease in speed you need to activate the Momentum by pressing the Momentum button and then use the Brake button. After releasing the Brake button your locomotive speed will return according to the setting on the Throttle Control.

Direction Button: The direction button reverses the polarity of voltage applied to the track and reverses the direction of your locomotive. This button should only be operated when the locomotive is not moving (*throttle control turned to STOP*) to prevent damage to the locomotive mechanism. Forward direction is indicated by an Up Arrow and reverse direction is indicated by a Down Arrow. The LED will display the direction you have selected. *Note: Your Throttlepack 9900 will remember the last direction used after shutting it off.*

Throttle Control: The throttle control is used to set the speed of the locomotive. With the momentum button in the OFF position (see Momentum Button for details), your locomotive will immediately accelerate, or decelerate, to the speed dictated by the throttle.

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. When this happens, immediately turn off your Throttlepack 9900 via the power switch on the left-hand side of the unit. Then locate the short circuit in your layout and correct the problem. Do not turn on your Throttlepack 9900 until the short circuit has been resolved. See point 4 for further details.

Variable DC Terminals: 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 indicator, simply reverse the wires going to these terminals.

Accessories DC Terminals: These terminals supply DC voltage for use with accessories. Be careful to observe polarity when hooking up accessories (of the two terminals for accessories, the left is negative, and the right is positive). 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. .HO/N mode for 15 VDC or O/G mode for 18 VDC. See *Scale/Gauge Switch for details.

Handheld Plug: Located in the front of the cabinet is a plug for the optional tethered handheld with memory. The Handheld throttle offers speed control, brake, and direction control. (MRC Part No. 0001325)

Your Throttlepack 9900 comes with a built-in universal power supply which can be safely used in countries with 120 VAC/60 Hz or 220 VAC/50 Hz input. In order to operate your Throttlepack 9900 outside the USA, you will need to replace the wall cord with one suitable for the matching outlet. For your safety, plug the wall cord firmly into the rear of the cabinet before plugging into a wall outlet.

Power Pack Setup: Make sure that the green four-terminal right-angle plug is firmly inserted into the rear receptacle of the cabinet. Take two wires from the Main Track layout (18 AWG or heavier) and strip the ends 1/8 inch. Insert these wires into terminals marked "TRACK". Strip the ends of wires from any of your accessories and insert them into terminals marked "ACC". Using a small flat-blade screwdriver, tighten the screws to secure the wires.

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 Throttlepack 9900 and layout. Be certain wires are properly inserted into the terminals before tightening screws. Also note that the output terminal screws can get hot during periods of peak use. Tin your wires before inserting into the terminals.

FOR YOUR PROTECTION

1. Never reverse a locomotive without stopping it first. Doing so may cause damage to the locomotive mechanism.
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, the circuit protection device will trip. Place the Throttlepack 9900's on-off Power Switch into 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 Throttlepack 9900 to these frequently or for extended periods of time.
5. Children under the age of 14 must be supervised by an adult when operating this product.
6. For best performances, keep wheel and track surfaces clean. Dirty track and wheels can cause erratic operation.

SERVICE

Your Throttlepack 9900 has been thoroughly tested before leaving our facility. If for some reason you are having problems with your Throttlepack 9900, please contact MRC Customer Support using the contact information **prior to** sending the unit for service.

The unit carries a three-year limited warranty* If it should become necessary to return the product for warranty repair/replacement, be sure to contact MRC technical support *beforehand* to ensure you receive the correct fees for service. This also gives us the opportunity to troubleshoot issues which may be solved with technical phone support.

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

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 8:00am and 5:00pm EST or by emailing mrccsupport@modelrectifier.com.

In order 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 the original 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 or defect 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 mrccsupport@modelrectifier.com

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