

# Caution - Electrically Operated Product



## Power Station 8

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

**Model Rectifier Corporation**

**80 Newfield Avenue Edison, NJ 08837**

**Printed in U.S.A**

**INS 2253**

## Congratulations!

You have just purchased one of the most advanced and powerful DCC Power Station on the market. Powered by MRC Power Station 8, your DCC layout will not be hungry for power anymore. You will be able to truly enjoy DCC technology to its full potential.

## Caution:

- Not recommended for children under 16 years of age.
- Follow the way we recommend to wire the terminal board. Otherwise poor contact may cause the terminal to become unusual warm.
- Turn off the power switch when the unit is not in use.
- To avoid electrical shock do not open the cabinet and try to repair it by yourself.

## Electrical Specifications

<b>AC input:</b>	120 Volts AC 60 Hz
<b>DCC input:</b>	12-18 Volts DCC signal from any DCC command station
<b>Output:</b>	Variable 15.5 -20 volts (no load) DCC signal for HO/N to G scale
<b>Max Current:</b>	8 Amp
<b>Max Output:</b>	168 watts

## Installation

Power Station is only a power booster. It has to be installed between the DCC Command Station and your layout. See Figure1. The output of your DCC Command Station will now be wired to the Power Station as the DCC input signal. Power Station's output will be wired to your layout.

The Figure 1 shows how to connect a single Power Station with the MRC DCC system Command 2000. You just run two wires from the "To Track" output terminals on Command 2000 to the "DCC input" terminals on Power Station. You then connect your layout to Power Station, i.e. run two wires from your layout to the "To Track" terminals on Power Station. The two wires must be AWG #16 or thicker. You must follow the following steps to secure the two wires to the "To Track" terminal on the Power Station'. 1.Strip the 16 AWG wire about 1 inch and twist it to keep all the strains together. 2.Remove the screw from the terminal board. 3.Shape the stripped wire into a ring and put the screw through the ring. 4.Twist the ring to make the wire tight on the screw. 5.Put the screw with wire back on the terminal and make sure the screw is tight. 6.Check all terminals to make sure there are no short circuits between them.

The wiring of Power Station 8 to the DCC system other than Command 2000 is basically same. The only difference is that the DCC input signal from Command 2000 is replaced by the one from other DCC Command Station.

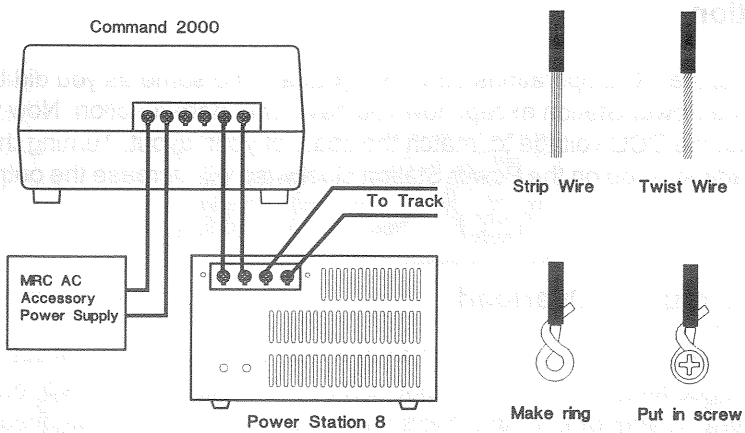


Figure 1

You can have the Power Station power the main section of your layout and meanwhile have your DCC Command Station power another section of your layout. The two sections must be blocked (totally insulated from each other).

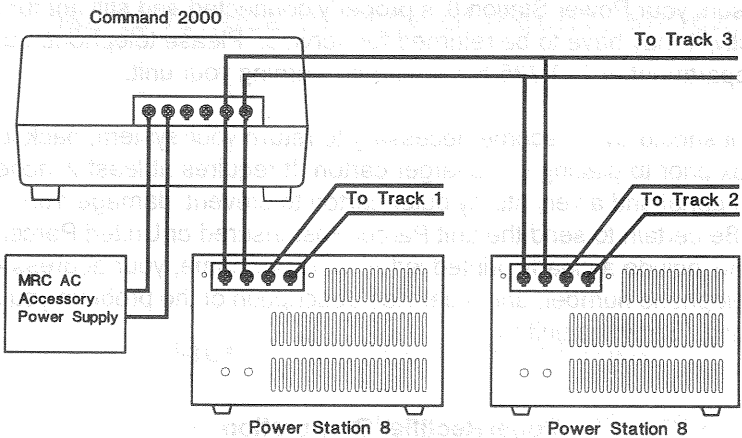


Figure 2

You can use two or more MRC Power Stations together or use the MRC

Power Stations must be connected to a single one DCC Command Station. Then each Power Station connects to one section of the layout. You must block each section and match their polarity by swapping two wires to the track. Figure 2 shows how to power three sections of layout with two Power Stations.

## Operation

All the DCC operations on your layout are the same as you did before without the Power Station except now you have one more function. Now you can adjust the DCC voltage to match the scale of your layout. Turning the voltage adjust knob on the Power Station clockwise will increase the output voltage.

## Short Circuit or Overload

Whenever a short circuit or an overload occurs the unit will cut off the output immediately and restore output in about 10 milliseconds. It will repeat the cycle ( turn on and turn off) until the short circuit or overload is removed. You will hear a buzz and the overload light will turn on when this happens. The short circuit or overload will not hurt the unit but you have to correct it in order to run your layout.

## Service

Your Power Station 8 has been thoroughly tested at the factory. If, for some reason, your Power Station 8 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 it in its original box prior to placing it in a larger carton. It requires at least 2 inches of packing material and a very sturdy outer carton to prevent damage from shipping. Be certain to send the unit Parcel Post 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. 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 Power Station 8.