Track Pack

Track Throttle
Via
Internal Battery or External DC

Operation and Installation Manual

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Overview

Track Pack

The Track Pack is a versatile manual throttle to control your track powered trains. It can be powered from an internal battery (not supplied), or an external DC power supply.

Operating on battery power frees you from an AC outlet. This can save you the expense of running AC out to your garden railroad, or avoid power outlet fees at train shows. Also handy for use on the bench.

The Track Pack can output PWM (Pulse Width Modulation), or liner DC voltage to the track. The PWM controller provides excellent low speed control, but in some cases can confuse the electronics in a loco (e.g. DCC decoders, or some lighting circuits). An optional, switch selectable, PWM to DC filter allows you to choose the best option.

The Volt/Ammeter displays Volts, a relative indication of speed, and Amps show which locos are current hogs (less battery time), and may also show potential track problems.

Connections

12-28 VDC IN

Connect any external DC voltage source to power the track when the BAT-OFF-EXT switch is in the EXT position. We recommend the Meanwell LRS-150-24 (24V, 6.5A) available from multiple on-line sources for about $19.

Track Output

Connect to track. Voltage will vary between 0 and 100% of the voltage provided by the power source (battery or external). Output is fuse protected. Shipped with a 5 Amp fuse, but can be increased to a maximum of 10 Amps, if needed. It is best to always use the smallest size fuse you can, without continually having to replace it. There is also a 10 Amp fuse located in the PWM control.

DC-PWM switch (with PWM-DC option) selects either the PWM output directly from the PWM controller, or linear DC output from the PWM-DC filter.

Battery

The Internal battery compartment is 4.5" X 3.0" X 1.5". A battery connector is supplied to allow for easy battery replacement. Solder the wires to your battery pack, Red +, Black –.

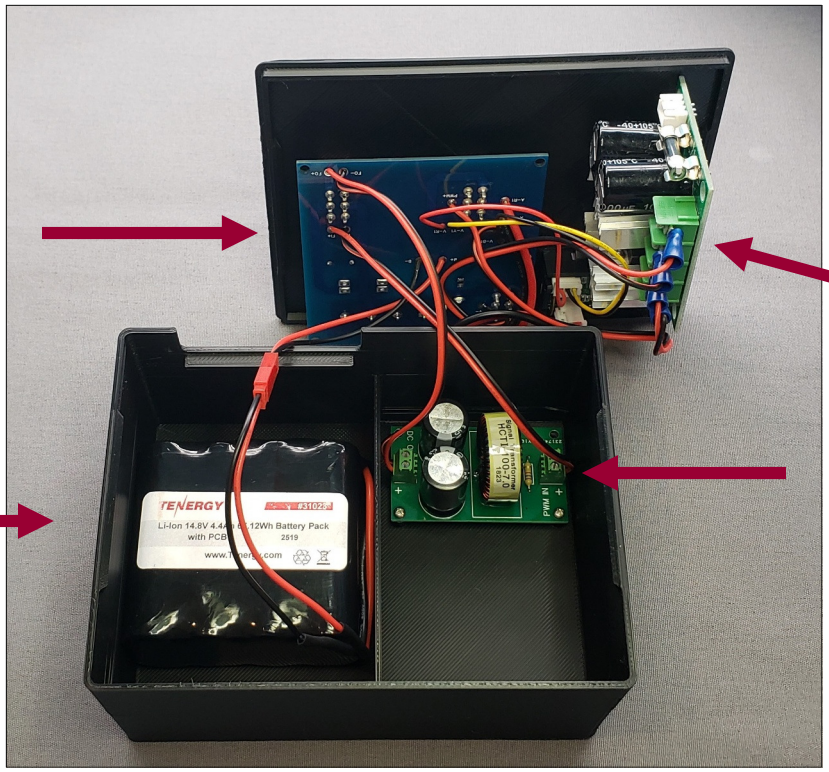
We recommend using Tenergy Li-Ion battery packs. A 14.8V, 4400 mah battery pack will provide around 4-5 hours of operation.

CHG IN

Connect your battery charger here, using a 2.5mm i.d. DC power plug. Always use the proper battery charger for your battery pack.

Inside the Track Pack

Remove the snap-on cover for access.

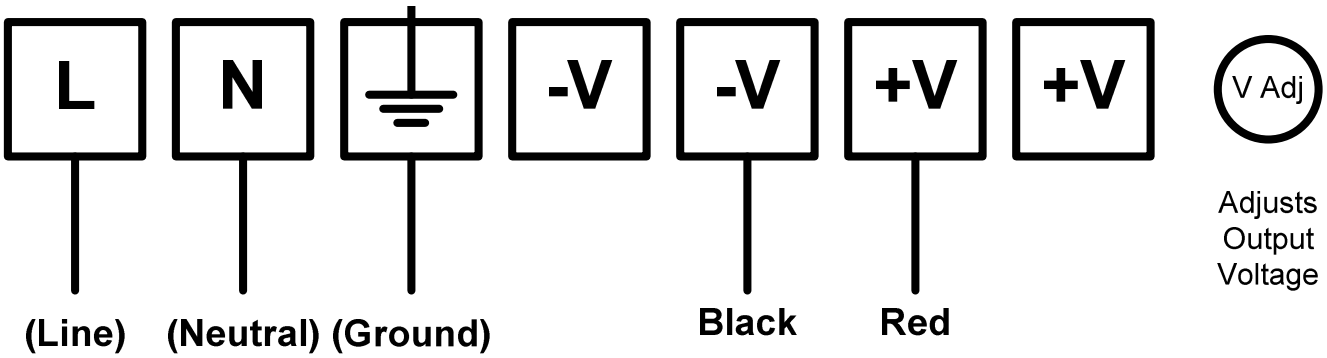


Wiring a Meanwell Power Supply

You will need to provide or purchase your own AC power cord and connect it to your Meanwell power supply. Any 3-wire power cord will work. Set the power input switch on the side of the power supply for 115 VAC U.S.

Output voltage should be 24 VDC maximum for use with the G-Scale Graphics Trackside R/C or Track Throttle. But no adjustment should be necessary as received.

Meanwell Power Supply



Black or Brown

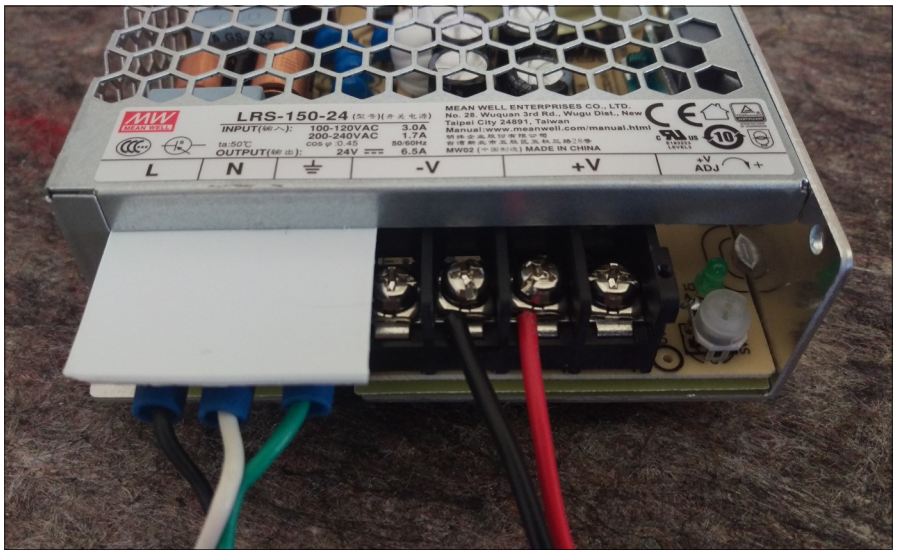
White or Blue

Green or Yellow with green stripe

115 VAC Input

(Set switch on side of power supply for 115 VAC in U.S.)

VDC Output(s) to Track Throttle(s)



Crimp some spade connectors on the wire ends for a nice neat connection. The AC input terminals on your power supply may be exposed, so you may want to insert a piece of styrene over them for added safety.