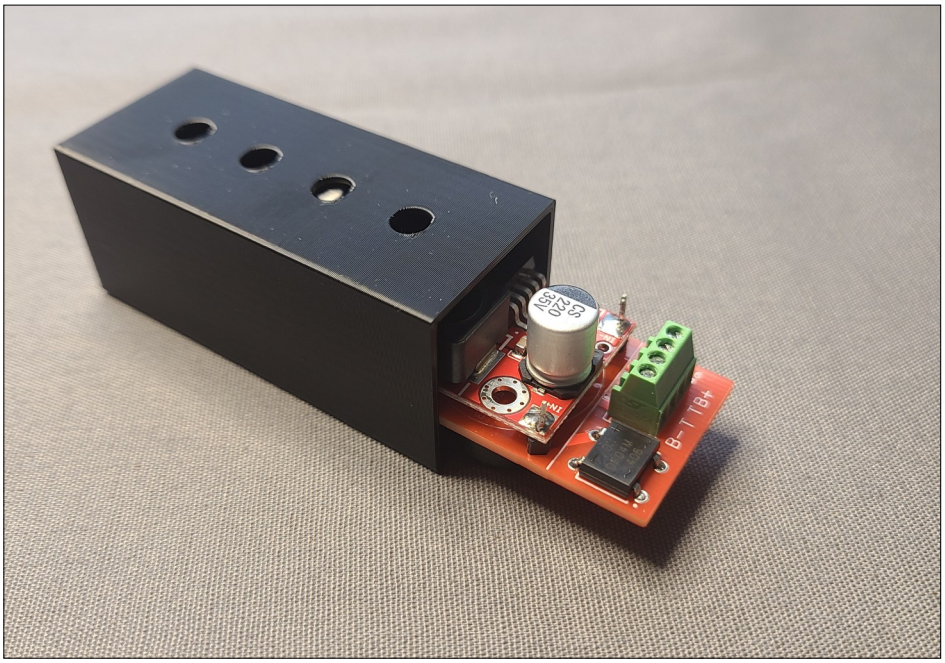
Battery Replacement for MyLocoSound on Track Power

Operation and Installation Manual



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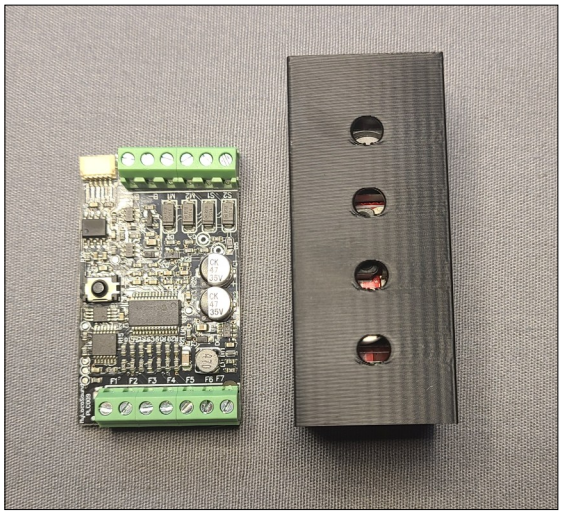
Overview

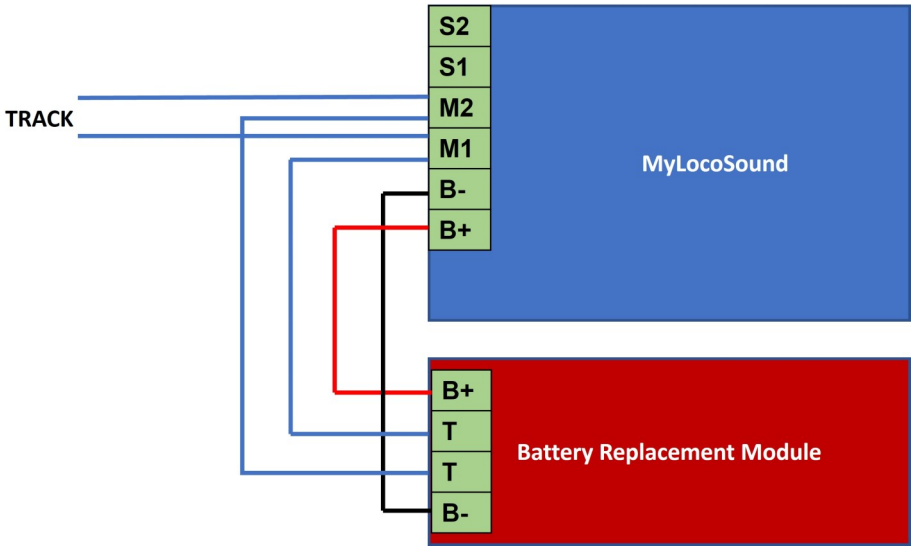
Your MyLocoSound board requires a backup power source for use when track power falls below 5V, or the loco is stopped. The Battery Replacement Module replaces the 9V battery with built-in Super Capacitors, which are fully charged in only 2 mins of run time at any track voltage greater than 4V. Sounds will play with loco stopped for at least 60 secs.

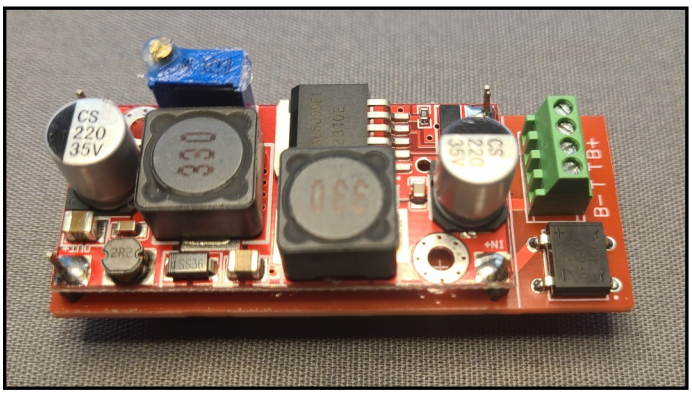


Installation

Wiring

The Battery Replacement board is powered via track power and its output is connected to the battery. Set MyLocoSound Power setting to “Battery Power”.





Operation

Track Voltage	Sound powered from	Battery Replacement
0-4V	Battery Replacement Module	Discharging (up to 60 secs)
4-10V	Track Voltage	Charging (fully in 2 mins.)

Adjustment

The Battery Replacement board is set for 11.5VDC output when shipped, intended for charging the on-board 11V Super Capacitor. Output voltage is continuously adjustable from 2-35VDC, for any input voltage 5-32VDC, using the blue 22 turn potentiometer.

The easiest way to adjust the output voltage is to remove the board from the loco. Power it with any DC voltage source available; power pack, power supply, or battery. Any voltage 5-32V can be used. Monitor the output using a voltmeter. Set the output at terminals B+,B– for 10.7VDC.

While installed in a loco, power it via track power and test rollers.

Battery Replacement Specifications

Mechanical

Physical Size: 2.5” X 1.1” X 1.0”H.

Wiring: Screw terminals accept tinned 22 AWG wire.

Electrical

Terminals: T,T

Track Power Input (DC or PWM): 5 to 32 VDC

Accepts polarity reversals via full wave bridge rectifier

Terminals: B+,B-

Battery Output

Adjustable 2-35VDC, 1 amp, via 22 turn trim potentiometer, Set for 10.7VDC.

Buck/Boost Converter, i.e. output will remain constant for any input 5-32VDC.

Back flow protection