

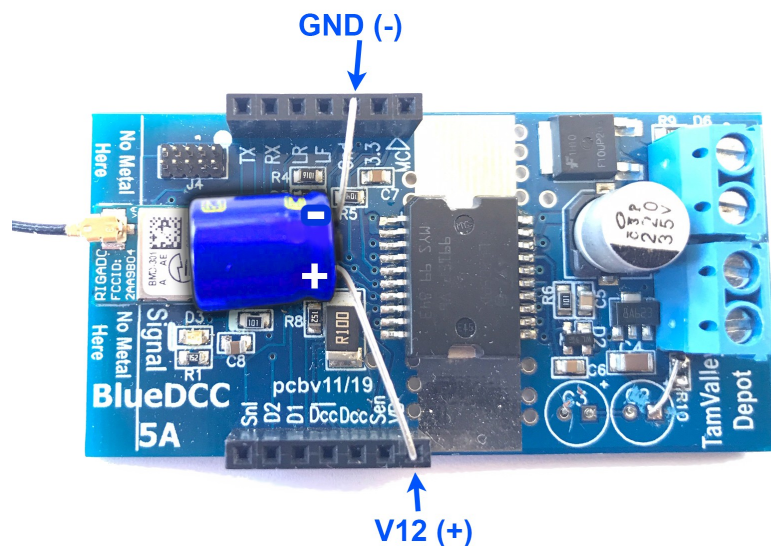
AC trackpower with the Large Board

If your goal is to power your loco with AC track power (using the large board) the large board will function on normal sine wave AC power. However some modern Lionel transformers and power packs produce what the company refers to as “chopped sine wave” power. Although the average voltage from these power sources does not exceed 18 volts the peak voltage is considerably higher, even at lower throttle settings.

This peak voltage may trip the over-voltage protection built into the BlueRailDCC boards. This over-voltage situation is indicated by constant blinking of the red LED on the board. The locomotive will also not connect to the smartphone app in this situation.

To deal with this we suggest the addition of a 35 volt (or higher) 470 microfarad electrolytic capacitor to the board. Simply insert the positive lead of the capacitor into the V12 receptacle in one header and the negative lead into the "Gnd" (or G) receptacle on the other header.

Please read through one of the sections above ("For Users New to DCC..." etc) for more background on the BlueRailDCC board.



When running the 5 amp board on AC Trackpower using a Lionel power pack that outputs “chopped sine wave”, add a 35 volt (or higher) 470 microfarad electrolytic capacitor as shown.

Connect the negative (-) side to GND and connect the positive (+) side to V12.