Dual 16c18 supply – mounting instructions

Thanks for buying this power supply pcb or kit! Now the fun of mounting starts. Make sure you read the complete instructions before you start mounting. Assembling can be done by an experienced hobbyist in about one hour.

List of components

Please check if all is complete. The kit should have the following components, if you bought the pcb, these components are suggested (or choose your own):

Qty	Value	Device	Parts
19		ST4,8	RECT+, RECT-, RECT0, X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, X11, X12, X13, X14, X15, X16
2	10k	R-0.5W	R1, R2
16	2200uF/63V	C-elec-7.5/18	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C12, C13, C14, C18, C19, C20
3		PCB pin 1mm	GND, RAIL+, RAIL-

Tools

- ✔ Soldering iron and solder
- ✔ Multi-meter (voltage and resistance)
- ✔ Side-cutting pliers
- ✔ Adjustable power supply (recommended)

Mounting

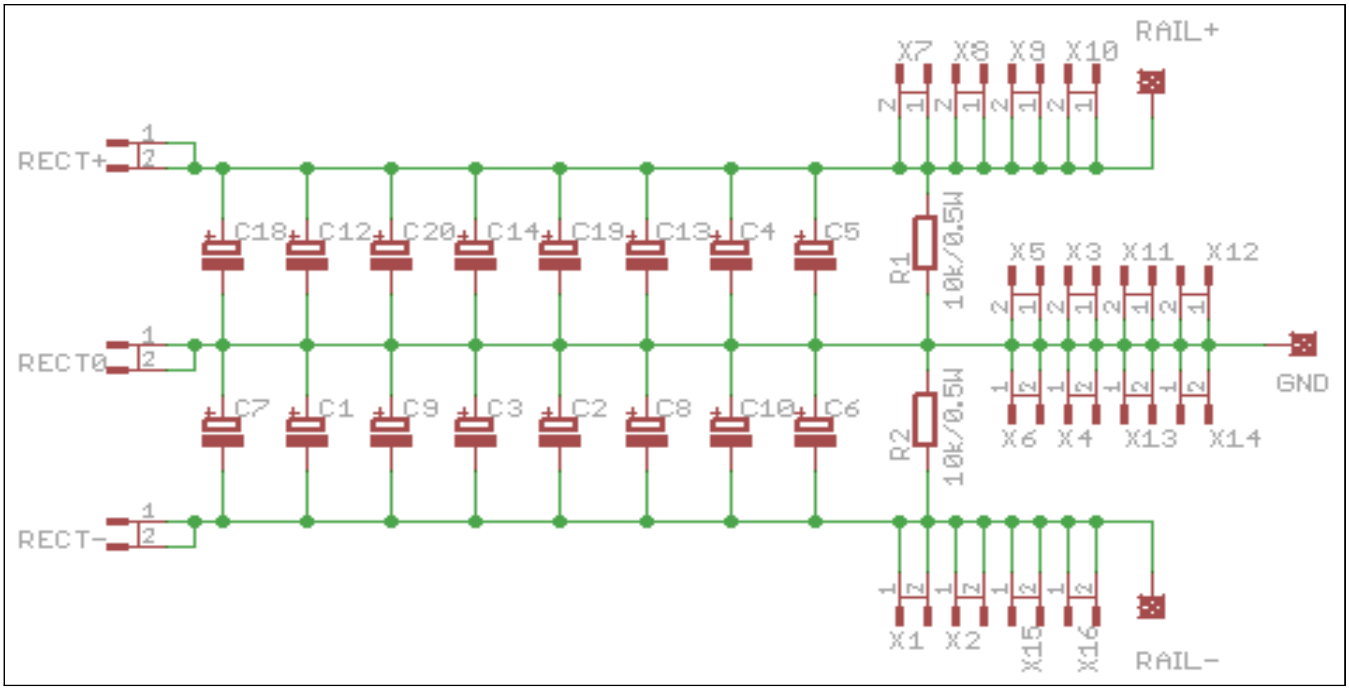
The easiest way of mounting is by starting with the components with the lowest height and build up the PCB in steps, where components of the same height are fitted and soldered in each step. So, solder in this order: resistors, connectors, electrolytic capacitors.

Always double check all components before you solder them (especially the ones that are polarity dependent, electrolytic capacitors, etc), as it is difficult to remove them after soldering, much more time consuming and may break components or PCB.

Testing

As this schematic is very straightforward, all testing that is needed should be to connect input RECT to the rectifier/transformer and measure the output RAIL voltage.

Schematic



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