

## Musitronics Micro V Replica Instructions

Version 2018July2018

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This is a replica of the **Musitronics Micro V Envelope Filter**.

Use the project documents provided, starting with the General Build Instructions. Follow the layout diagram for part placement and wiring.

The first thing to notice is that some of the diodes and resistors “stand on end”. D1, D2, D3, D4, R11, R15, R16a, R16b, R17 and R20 all stand on end. You should bend one of the component leads all the way over so that you have 2 leads pointing down, then insert it in the part placement. Be careful with these components, make sure they are standing up straight and don't get bent over and short against a nearby component.

There are 7 “jumpers” on this PCB. If you have a General Guitar Gadgets PCB, these “jumpers” are built in to the top layer of the PCB and you don't need to add anything. You can ignore the jumpers and the pads at the ends of the jumpers. If you etch the PCB yourself, you will add jumpers to those positions.

The kit comes with IC sockets, we would strongly suggest that you use the sockets for the ICs.

Comments and questions are welcome and can be sent to:



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Here is a chart of voltages taken at the IC pins. This information can be used to help you find and fix problems if your **Micro 5** doesn't work when you test it. These are approximate voltages, if yours are within 0.5 volt variance, you are probably okay.

Component	Location	Voltage
9 volt power supply		9.3v
IC1	Pin 1	4.5v
	Pin 2	4.5v
	Pin 3	4.5v
	Pin 4	0v
	Pin 5	4.5v
	Pin 6	4.5v
	Pin 7	4.3v
	Pin 8	8.2v
IC1	Pin 1	1.1v
	Pin 2	0v
	Pin 3	4.5v
	Pin 4	4.5v
	Pin 5	4.5v
	Pin 6	0v
	Pin 7	0v
	Pin 8	0v
	Pin 9	0.2v
	Pin 10	0v
	Pin 11	8.2v
	Pin 12	4.5v



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	Pin 13	4.5v
	Pin 14	4.5v
	Pin 15	0v
	Pin 16	1.1v
Q1	Collector	8.8v
	Base	4.6v
	Emitter	4.1v
Q2	Collector	8.8v
	Base	5.6v
	Emitter	4.7v
Q3	Collector	1.1v
	Base	4.7v
	Emitter	4.8v

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Here's a view of the inside of the completed Musitronics Micro V replica in the 125B enclosure.

