



# Neutron (Musitronics™ Mutron III™ Replica) Bill of Materials

Version 2014October12

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## Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R1	3k3 (3.3k)	 orange-orange-red	 orange-orange-black-brown
R2	120k	 brown-red-yellow	 brown-red-black-orange
R3	120k	 brown-red-yellow	 brown-red-black-orange
R4	4k7 (4.7k)	 yellow-violet-red	 yellow-violet-black-brown
R5	12k	 brown-red-orange	 brown-red-black-red
R6	22k	 red-red-orange	 red-red-black-red
R7	22k	 red-red-orange	 red-red-black-red
R8	220k	 red-red-yellow	 red-red-black-orange
R9	220k	 red-red-yellow	 red-red-black-orange
R10	22k	 red-red-orange	 red-red-black-red
R11	12k	 brown-red-orange	 brown-red-black-red
R12	1M	 brown-black-green	 brown-black-black-yellow
R13	1M	 brown-black-green	 brown-black-black-yellow
R14	330 ohm	 orange-orange-brown	 orange-orange-black-black
R15	47k	 yellow-violet-orange	 yellow-violet-black-red
Rx	See instructions		




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R16	120k	 brown-red-yellow	 brown-red-black-orange
R17	120k	 brown-red-yellow	 brown-red-black-orange
R18	180k	 brown-gray-yellow	 brown-gray-black-orange
R19	120k	 brown-red-yellow	 brown-red-black-orange
R20	4k7 (4.7k)	 yellow-violet-red	 yellow-violet-black-brown
R21	560 ohm	 green-blue-brown	 green-blue-black-black

## Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1	4.7µF	Tantalum	4µ7
C2	0.1µF	Film or Ceramic	104
C3	10pF	Ceramic	100 or 10
C4	2.2µF	Aluminum Electrolytic	2.2µF
C5	0.0022µF	Film	222 or 22n
C6	0.0018µF	Film	182
C7	0.0022µF	Film	222 or 22n
C8	0.0018µF	Film	182
C9	4.7µF	Aluminum Electrolytic	4µ7
C10	4.7µF	Aluminum Electrolytic	4µ7
C11	4.7µF	Aluminum Electrolytic	4µ7
C12	0.1µF	Film or Ceramic	104
C13	0.1µF	Film or Ceramic	104
C14	15µF non polar	Aluminum Electrolytic	15µF
C15	10µF	Aluminum Electrolytic	10µF
C16	10µF	Aluminum Electrolytic	10µF
C17	10µF	Aluminum Electrolytic	10µF



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C18	100µF	Aluminum Electrolytic	100uF
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## Potentiometers:

Part ID	Value	Type
VR1 - Gain Control	1M	Reverse Log Taper
VR2- Peak Control	150k	Log (or Audio) Taper

## Other:

Part ID	Part Name
IC1, IC2, IC3	TL072
IC4	7660 Charge Pump IC (or MAX1044 - see instructions)
D1, D2	1N914
D3	LED
Q1	2N3906
LDR/LED	Dual LDR/LED unit (see instructions)
J1	Stereo quarter-inch jack
J2	Mono quarter-inch jack
J3	DC Jack
B1	9 volt battery
Sw1	Heavy Duty 3PDT foot switch
Sw2	DPDT On-On Mini Toggle Switch
Sw3	DPDT On-On Mini Toggle Switch
Sw4	1-Pole 3-way rotary switch (can be more than 1 pole, but only one is used)
	9v battery snap, Printed Circuit Board, 24 gauge stranded wire, Enclosure, Knobs, Rubber Feet, PCB Standoffs