

## P100 (MXR Phase 100™ Replica) Bill of Materials





























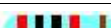
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### **Resistors:**

Resistor ID	Value	3-band Marking	4-band Marking
R1	15k	 brown-green-orange	 brown-green-black-red
R1 (alternate)	29.4		 red-white-yellow-red
R2	10k	 brown-black-orange	 brown-black-black-red
R3	10k	 brown-black-orange	 brown-black-black-red
R4	10k	 brown-black-orange	 brown-black-black-red
R5	10k	 brown-black-orange	 brown-black-black-red
R6	10k	 brown-black-orange	 brown-black-black-red
R7	10k	 brown-black-orange	 brown-black-black-red
R8	10k	 brown-black-orange	 brown-black-black-red
R9	10k	 brown-black-orange	 brown-black-black-red
R10	10k	 brown-black-orange	 brown-black-black-red
R11	10k	 brown-black-orange	 brown-black-black-red
R12	470k	 yellow-violet-yellow	 yellow-violet-black-orange
R13	20k	 red-black-orange	 red-black-black-red
R14	20k	 red-black-orange	 red-black-black-red


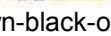
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R15	20k	 red-black-orange	 red-black-black-red
R16	100k	 brown-black-yellow	 brown-black-black-orange
R17	100k	 brown-black-yellow	 brown-black-black-orange
R18	6k2 (6.2k)	 blue-red-red	 blue-red-black-brown
R19	6k2 (6.2k)	 blue-red-red	 blue-red-black-brown
R20	10k	 brown-black-orange	 brown-black-black-red
R21	10k	 brown-black-orange	 brown-black-black-red
R22	10k	 brown-black-orange	 brown-black-black-red
R23	10k	 brown-black-orange	 brown-black-black-red
R24	10k	 brown-black-orange	 brown-black-black-red
R25	10k	 brown-black-orange	 brown-black-black-red
R26	10k	 brown-black-orange	 brown-black-black-red
R27	10k	 brown-black-orange	 brown-black-black-red
R28	10k	 brown-black-orange	 brown-black-black-red
R29	10k	 brown-black-orange	 brown-black-black-red
R30	10k	 brown-black-orange	 brown-black-black-red

























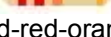


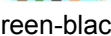
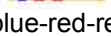

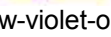

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R31	10k	 brown-black-orange	 brown-black-black-red
R32	150k	 brown-green-yellow	 brown-green-black-orange
R33	20k	 red-black-orange	 red-black-black-red
R34	20k	 red-black-orange	 red-black-black-red
R35	100k	 brown-black-yellow	 brown-black-black-orange
R36	100k	 brown-black-yellow	 brown-black-black-orange
R37	100k	 brown-black-yellow	 brown-black-black-orange
R38	100k	 brown-black-yellow	 brown-black-black-orange
R39	47k	 yellow-violet-orange	 yellow-violet-black-red
R40	47k	 yellow-violet-orange	 yellow-violet-black-red
R41	150k	 brown-green-yellow	 brown-green-black-orange
R42	3K9 (3.9K)	 orange-white-red	 orange-white-black-brown
R43	22k	 red-red-orange	 red-red-black-red
R44	150k	 brown-green-yellow	 brown-green-black-orange
R45	6k2 (6.2k)	 blue-red-red	 blue-red-black-brown
R46	47k	 yellow-violet-orange	 yellow-violet-black-red
R47	20k trimmer		



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R48	39k	 orange-white-orange	 orange-white-black-red
R49	120k	 brown-red-yellow	 brown-red-black-orange
R50	6k2 (6.2k)	 blue-red-red	 blue-red-black-brown
R51	100k	 brown-black-yellow	 brown-black-black-orange
R52	150k	 brown-green-yellow	 brown-green-black-orange
R53	150k	 brown-green-yellow	 brown-green-black-orange
R54	20 ohm	 red-black-black	 red-black-black-black
R55	150k	 brown-green-yellow	 brown-green-black-orange
R56	4k7 (4.7k)	 yellow-violet-red	 yellow-violet-black-brown
R57	Speed Control Potentiometer		

### Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1	0.01µF	Film	103
C2	300pF	Ceramic or Film	301 (or 300pF)
C3	0.01µF	Film	103
C4	0.01µF	Film	103
C5	0.01µF	Film	103
C6	0.01µF	Film	103
C7	1µF	Tantalum ( or Aluminum Electrolytic)	1µF
C8	0.01µF	Film	103
C9	0.01µF	Film	103



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C10	0.01µF	Film	103
C11	0.01µF	Film	103
C12	0.01µF	Film	103
C13	0.01µF	Film	103
C14	15µF	Tantalum (or Aluminum Electrolytic)	15µF
C15	15µF	Tantalum (or Aluminum Electrolytic)	15µF
C16	0.01µF	Film	103
C17	15µF	Tantalum (or Aluminum Electrolytic)	15µF

## Potentiometers:

Part ID	Value	Type
R47 - Center Frequency (trim)	20k	Trimmer
R57 - Speed Control	500k	Reverse Log Taper (or 100k linear)

## Other:

Part ID	Part Name
IC1, IC2, IC3, IC4, IC5, IC6	TL022
VR1, VR2, VR3	VTL5C2/2 or VTL5C3/2
6 - jumper wires or 0 ohm resistors	Jumper (6 times)
D1	1N914
D2	LED (status indicator optional)
Q1	2N5088 (or other NPN BJT) Transistor
Q2	2N5088 (or other NPN BJT) Transistor
Q3	2N5088 (or other NPN BJT) Transistor



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Q4	2N5088 (or other NPN BJT) Transistor
J1	Stereo quarter-inch jack
J2	Mono quarter-inch jack
J3	DC Jack
B1	9 volt battery (not included in the Kit)
Sw1	Heavy Duty 3PDT foot switch
Sw2	2-pole 4-way rotary switch ( or 2 SPST toggle switches)
	9v battery snap, Printed Circuit Board, 24 gauge stranded wire, Enclosure, Knobs