



Maestro Filter Sample & Hold Replica)

Bill of Materials































Version 2018December30

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Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R1	10k	 brown-black-orange	 brown-black-black-red
R2	100k	 brown-black-yellow	 brown-black-black-orange
R3	22k	 red-red-orange	 red-red-black-red
R4	100k	 brown-black-yellow	 brown-black-black-orange
R5	3k3 (3.3k)	 orange-orange-red	 orange-orange-black-brown
R6	22k	 red-red-orange	 red-red-black-red
R7	1M	 brown-black-green	 brown-black-black-yellow
R8	12k	 brown-red-orange	 brown-red-black-red
R9	100k	 brown-black-yellow	 brown-black-black-orange
R10	3k3 (3.3k)	 orange-orange-red	 orange-orange-black-brown
R11	3k3 (3.3k)	 orange-orange-red	 orange-orange-black-brown
R12	3k3 (3.3k)	 orange-orange-red	 orange-orange-black-brown
R13	22k	 red-red-orange	 red-red-black-red
R14	100k	 brown-black-yellow	 brown-black-black-orange
R15 (Filter Range Potentiometer)	100k Linear		
R16	22k	 red-red-orange	 red-red-black-red






















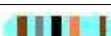








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R17	1M	 brown-black-green	 brown-black-black-yellow
R18	3k3 (3.3k)	 orange-orange-red	 orange-orange-black-brown
R19	100k	 brown-black-yellow	 brown-black-black-orange
R20	2M7	 red-violet-green	 red-violet-black-yellow
R21	1M	 brown-black-green	 brown-black-black-yellow
R22	22k	 red-red-orange	 red-red-black-red
R23	100k	 brown-black-yellow	 brown-black-black-orange
R24	100k	 brown-black-yellow	 brown-black-black-orange
R25	1M	 brown-black-green	 brown-black-black-yellow
R26	100k trimmer		
R27	10k trimmer		
R28 (Speed Control Potentiometer)	1M linear		
R29	180k	 brown-gray-yellow	 brown-gray-black-orange
R30	1M	 brown-black-green	 brown-black-black-yellow
R31	22k	 red-red-orange	 red-red-black-red
R32	3k3 (3.3k)	 orange-orange-red	 orange-orange-black-brown
R33	22k	 red-red-orange	 red-red-black-red



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R34	47k	 yellow-violet-orange	 yellow-violet-black-red
R35	470 ohm	 yellow-violet-brown	 yellow-violet-black-black
R36	470 ohm	 yellow-violet-brown	 yellow-violet-black-black
R37	1k	 brown-black-red	 brown-black-black-brown
R38	6k8 (6.8k)	 blue-gray-red	 blue-gray-black-brown
R39	1k	 brown-black-red	 brown-black-black-brown

Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1	0.047 μ F	Film	473
C2	0.15 μ F	Film	154
C3	0.001 μ F	Film	102
C4	0.15 μ F	Film	154
C5	0.033 μ F	Film	333
C6	4.7 μ F	Aluminum Electrolytic	4.7 μ F
C7	0.15 μ F	Film	154
C8	0.047 μ F	Film	473
C9	0.047 μ F	Film	473
C10	0.33 μ F	Film	334
C11	none		
C12	100 μ F	Aluminum Electrolytic	100 μ F
C13	none		
C14	100 μ F	Aluminum Electrolytic	100 μ F
C15	10 μ F	Aluminum Electrolytic	10 μ F
C16	10 μ F	Aluminum Electrolytic	10 μ F



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Potentiometers:

Part ID	Value	Type
R15 – Filter Range Control	100k	Linear Taper
R28 - Speed Control	1M	Linear Taper
R26 – 100k Trimmer	100k	Trimmer
R27 – 10k Trimmer	10k	Trimmer

Other:

Part ID	Part Name
IC1	CA3080
IC2	CA3080
IC3	LM741
IC4	LM741
IC5	LM741
IC6	MAX1044
Q1	2N5088 or 2N5089 Transistor
Q2	2N5457
Q3	2N3906 or Other Low gain PNP Transistor
Q4	2N3904 or best noise transistor
Q5	2N5457
Q6	2N5457
Q7	2N3906 or Other PNP Transistor
D1	1N914
D2	1N914
D3	1N914
D4	Status Indicator LED and holder
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



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	9v battery snap, Printed Circuit Board, 24 gauge stranded wire, Enclosure
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