
















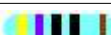

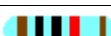










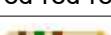

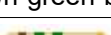
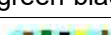
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Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R1	1M5 (1.5M)	 brown-green-green	 brown-green-black-yellow
R2	150k	 brown-green-yellow	 brown-green-black-orange
R3	150k	 brown-green-yellow	 brown-green-black-orange
R4	12k	 brown-red-orange	 brown-red-black-red
R5	390 ohm	 orange-white-brown	 orange-white-black-black
R6	470k	 yellow-violet-yellow	 yellow-violet-black-orange
R7	10k	 brown-black-orange	 brown-black-black-red
R8	470 ohm	 yellow-violet-brown	 yellow-violet-black-black
R9	10k	 brown-black-orange	 brown-black-black-red
R10	10k	 brown-black-orange	 brown-black-black-red
R11	4k7 (4.7k)	 yellow-violet-red	 yellow-violet-black-brown
R12	1M5 (1.5M)	 brown-green-green	 brown-green-black-yellow
R13	12k	 brown-red-orange	 brown-red-black-red
R14	2k2 (2.2k)	 red-red-red	 red-red-black-brown
R15	150 ohm	 brown-green-brown	 brown-green-black-black
R16	1M5 (1.5M) (Not needed if you have Volume Pot)	 brown-green-green	 brown-green-black-yellow














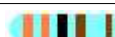







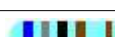








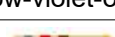


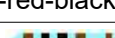
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R17	2k2 (2.2k)	 red-red-red	 red-red-black-brown
R18	220k	 red-red-yellow	 red-red-black-orange
R19	220k	 red-red-yellow	 red-red-black-orange
R20	82k	 gray-red-orange	 gray-red-black-red
R21	2k2 (2.2k)	 red-red-red	 red-red-black-brown
R22	22k	 red-red-orange	 red-red-black-red
R23	3k3 (3.3k)	 orange-orange-red	 orange-orange-black-brown
R24	47k	 yellow-violet-orange	 yellow-violet-black-red
R25	6k8 (6.8k)	 blue-gray-red	 blue-gray-black-brown
R26	47k	 yellow-violet-orange	 yellow-violet-black-red
R27	6k8 (6.8k)	 blue-gray-red	 blue-gray-black-brown
R28	150k	 brown-green-yellow	 brown-green-black-orange
R29	1k	 brown-black-red	 brown-black-black-brown
R30	1M5 (1.5M)	 brown-green-green	 brown-green-black-yellow
R31	47k	 yellow-violet-orange	 yellow-violet-black-red
R32	820 ohm	 gray-red-brown	 gray-red-black-black
R33	1k	 brown-black-red	 brown-black-black-brown



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Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1	0.1 μ F	Film	104
C2	1 μ F	Aluminum Electrolytic	1 μ F
C3	0.1 μ F	Film	104
C4	1 μ F	Aluminum Electrolytic	1 μ F
C5	0.1 μ F	Film	104
C6	1 μ F	Aluminum Electrolytic	1 μ F
C7	0.05 μ F (or 0.047 μ F)	Film	503 (or 473)
C8	1 μ F	Aluminum Electrolytic	1 μ F
C9	1 μ F	Aluminum Electrolytic	1 μ F
C10	0.1 μ F	Film	104
C11	0.01 μ F	Film	103
C12	0.01 μ F	Film	103
C13	0.005 μ F (or 0.0047 μ F)	Film	502 (or 472 or 4n7)
C14	0.005 μ F (or 0.0047 μ F)	Film	502 (or 472 or 4n7)
C15	0.05 μ F (or 0.047 μ F)	Film	503 (or 473)
C16	25 μ F (or 22 μ F)	Aluminum Electrolytic	25 μ F
C17	10 μ F	Aluminum Electrolytic	10 μ F

Potentiometers

Part Id	Value
VR1 (Sensitivity)	10k linear
VR2 (Bass Volume Control)	10k linear
VR3 (Brass Volume Control)	10k linear
VR4 (Volume Control)	100k Log

Other:

Part ID	Part Name
D1	1N914 or 1N4001
D2	1N914 or 1N4001
D3	1N914 or 1N4001



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D4	1N914 or 1N4001
D5 (Optional, Not included in the Kit)	1N4003
Q1	2N3391 (or 2N3392)
Q2	2N3391 (or 2N3392)
Q3	2N3391 (or 2N3392)
Q4	2N3391 (or 2N3392)
Q5	2N3391 (or 2N3392)
Q6	2N3391 (or 2N3392)
Q7	2N5308
T1	42TM018 Transformer (mouser.com part #)
J1	Stereo quarter-inch jack
J2	Mono quarter-inch jack
J3	DC Jack
B1	9 volt battery
Sw1	Heavy Duty 3PDT footswitch (bypass)
Sw2 (Brass 1 & 2)	3PST or 3PDT
Sw3 (Harmonic Hi/Low)	SPST toggle switch
	9v battery snap & holder, Copper-clad board & etchant, or perfboard 24 gauge stranded wire, knobs Enclosure

Notes:

VR2 and VR3 can be a dual-gang 10k pot each wired opposite so that it functions as a mix control.