ColorSound™ ToneBender Mark II Professional™ Replica (NPN Silicon Version) Bill of Materials

Version 2012July26

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Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R1	100k	brown-black-yellow	brown-black-black-orange
R2	10k	brown-black-orange	brown-black-black-red
R3	47k	yellow-violet-orange	yellow-violet-black-red
R4	100k	brown-black-yellow	brown-black-black-orange
R5	1k	brown-black-red	brown-black-black-brown
R6	5k6 (5.6k)	green-blue-red	green-blue-black-brown
R6T (optional replacement for R6)	20k Trimmer potentiometer		
R7 (Attack Control Potentiometer)	1k Linear		
R8 (Volume Control Potentiometer)	100k Log		
R9	1M5 (1.5M)	brown-green-green	brown-green-black-yellow
R10	470k	yellow-violet-yellow	yellow-violet-black-orange
R11	2k7 (2.7k)	red-violet-red	red-violet-black-brown
R12	100 ohm	brown-black-brown	brown-black-black-black
R13	220 ohm	red-red-brown	red-red-black-black
R14	1k	brown-black-red	brown-black-black-brown

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Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1	4.7µF	Aluminum Electrolytic	4.7µF
C2	0.1µF	Film	104
C2	0.1µF	Film	104
C4	4.7µF	Aluminum Electrolytic	4.7µF
C5	47µF	Aluminum Electrolytic	47µF
C6	0.01µF	Film	103

Potentiometers:

Part ID	Value	Type
R7 - Attack Control	1k	Reverse Log Taper
R8 - Volume Control	100k	Log (or Audio) Taper

Other:

Part ID	Part Name
D2	LED
Q1	2N4401 or other NPN Silicon bipolar junction transistor
Q2	2N4401 or other NPN Silicon bipolar junction transistor
Q3	2N5089 or other NPN Silicon bipolar junction 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
	9v battery snap, Printed Circuit Board, 24 gauge stranded wire, Enclosure, Knobs