

ColorSound™ ToneBender Mark II Professional™ Replica (PNP Germanium Version) Bill of Materials























Version 2012February10

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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	8k2 (8.2k)	 gray-red-red	 gray-red-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	Blank (no resistor, no jumper)		
R11	0 ohm or jumper wire	 black	 black
R12	0 ohm or jumper wire	 black	 black
R13	0 ohm or jumper wire	 black	 black
R14	1k	 brown-black-red	 brown-black-black-brown

Capacitors:



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Capacitor ID	Value	Type	Possible Marking
C1	4.7 μ F	Aluminum Electrolytic	4.7 μ F
C2	0.1 μ F	Film	104
C3	0.01 μ F	Film	103
C4	4.7 μ F	Aluminum Electrolytic	4.7 μ F
C5	47 μ F	Aluminum Electrolytic	47 μ F
C6	0.01 μ F	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	NPN Germanium bipolar junction transistor
Q2	NPN Germanium bipolar junction transistor
Q3	NPN Germanium 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