

ColorSound™ ToneBender™ (3-knob) Replica (NPN Negative Ground Version) Bill of Materials























Version 2012November08

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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	47k	 yellow-violet-orange	 yellow-violet-black-red
R3	220k	 red-red-yellow	 red-red-black-orange
R4	10k	 brown-black-orange	 brown-black-black-red
R5	10k	 brown-black-orange	 brown-black-black-red
R6	3k3 (3.3k)	 orange-orange-red	 orange-orange-black-brown
R7 (Fuzz Control Potentiometer)	100k Linear		
R8	18k	 brown-gray-orange	 brown-gray-black-red
R9	10k	 brown-black-orange	 brown-black-black-red
R10	10k	 brown-black-orange	 brown-black-black-red
R11 (Tone Control Potentiometer)	100k Linear		
R12	10k	 brown-black-orange	 brown-black-black-red
R13 (Volume Control Potentiometer)	100k Linear		
R14	None		
R15	None		
R16	220k	 red-red-yellow	 red-red-black-orange
R17	None		





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R18	1k	 brown-black-red	 brown-black-black-brown
R19	0 ohm or jumper wire	 black	 black

Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1	0.1 μ F	Film or Ceramic	104
C2	220pF	Ceramic	221
C3	22 μ F	Aluminum Electrolytic	22 μ F
C4	0.22 μ F	Film or Ceramic	224
C5	10 μ F	Aluminum Electrolytic	10 μ F
C6	0.1 μ F	Film or Ceramic	104
C7	0.0022 μ F	Film or Ceramic	222
C8	none		
C10	none		

Potentiometers:

Part ID	Value	Type
R7 - Fuzz Control	100k	Linear Taper
R11 - Tone Control	100k	Linear Taper
R13 - Volume Control	100k	Linear Taper

Other:

Part ID	Part Name
D1	1N270 (or other Germanium diode)
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



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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