



ColorSound™ Jumbo ToneBender™ Replica) Bill of Materials

Version 2014December05

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Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R1	33k	 orange-orange-orange	 orange-orange-black-red
R2	100k	 brown-black-yellow	 brown-black-black-orange
R3	470k	 yellow-violet-yellow	 yellow-violet-black-orange
R4	100 ohm	 brown-black-brown	 brown-black-black-black
R5	15k	 brown-green-orange	 brown-green-black-red
R6 (Sustain Control Potentiometer)	100k Log		
R7	1k	 brown-black-red	 brown-black-black-brown
R8	8k2 (8.2k)	 gray-red-red	 gray-red-black-brown
R9	100k	 brown-black-yellow	 brown-black-black-orange
R10	470k	 yellow-violet-yellow	 yellow-violet-black-orange
R11	10k	 brown-black-orange	 brown-black-black-red
R12	100 ohm	 brown-black-brown	 brown-black-black-black
R13	8k2 (8.2k)	 gray-red-red	 gray-red-black-brown
R14	100k	 brown-black-yellow	 brown-black-black-orange
R15	470k	 yellow-violet-yellow	 yellow-violet-black-orange


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R16	100 ohm		
R17	15k		
R18 (in C10 Placement)	33k		
R19 (in C11 placement)	33k		
R20 (Tone Control Potentiometer)	100k Linear		
R21	none		
R22	none		
R23	none		
R24	none		
R25 (Volume Control Potentiometer)	100k Log		
R26	1M5 (1.5M)		
R27	1k		

Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1	0.1µF	Film	104
C2	500pF	Ceramic or Film	501
C3	0.1µF	Film	104
C4	0.1µF	Film	104
C5	500pF	Ceramic or Film	501
C6	none		
C7	0.1µF	Film	104
C8	500pF	Ceramic or Film	501
C9	0.1µF	Film	104



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C10 (in R19 placement)	0.0033 μ F	Ceramic or Film	332
C11 (in R18 placement)	0.01 μ F	Film	103
C12	0.1 μ F	Film	104
C13	None		
C14	22 μ F	Aluminum Electrolytic	22 μ F
C15	none		
C16	0.1 μ F	Film	104
C17	none		

Potentiometers:

Part ID	Value	Type
R6 - Sustain Control	100k	Log (or Audio) Taper
R20 - Tone Control	100k	Linear Taper
R25 - Volume Control	100k	Log (or Audio) Taper

Other:

Part ID	Part Name
D1	none
D2	none
D3	1N914
D4	1N914
D5	LED
Q1	NPN bipolar junction transistor
Q2	NPN bipolar junction transistor
Q3	NPN bipolar junction transistor



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Q4	none
J1	Stereo quarter-inch jack
J2	Mono quarter-inch jack
J3	DC Jack
B1	9 volt battery
Sw1	Heavy Duty 3PDT foot switch
	9v battery snap, Printed Circuit Board, 24 gauge stranded wire, Enclosure, Knobs

Examples of other NPN bipolar junction transistors:

- BC184C (original)
- 2N5089
- 2N3904
- 2N4401
- many others