



# TOCT Bill of Materials

Version 2016April14

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## Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R1(Optional)	1M5 (1.5M)	 brown-green-green	 brown-green-black-yellow
R2	680k	 blue-gray-yellow	 blue-gray-black-orange
R3	820k	 gray-red-yellow	 gray-red-black-orange
R4	180k	 brown-gray-yellow	 brown-gray-black-orange
R5	220k	 red-red-yellow	 red-red-black-orange
R6	220 ohm	 red-red-brown	 red-red-black-black
R7	1k	 brown-black-red	 brown-black-black-brown
R8 (Intensity)	1k Reverse Log Potentiometer		
R9	47k	 yellow-violet-orange	 yellow-violet-black-red
R10	22k	 red-red-orange	 red-red-black-red
R11	470 ohm	 yellow-violet-brown	 yellow-violet-black-black
R12	1k2 (1.2k)	 brown-red-red	 brown-red-black-brown
R13 (Volume)	500k Log Potentiometer		
R14 (optional)	1M5 (1.5M)	 brown-green-green	 brown-green-black-yellow
R15	1k	 brown-black-red	 brown-black-black-brown
R16 (Pre-Gain)	50k Linear Potentiometer		

## Capacitors:

Capacitor ID	Value	Type	Possible Marking
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C1	0.1 $\mu$ F	Film	104
C2	150pF	Ceramic or Film	151
C3	0.001 $\mu$ F	Film	102
C4	100 $\mu$ F	Aluminum Electrolytic	100 $\mu$ F
C5	220 $\mu$ F	Aluminum Electrolytic	220 $\mu$ F
C6	33 $\mu$ F	Aluminum Electrolytic	33 $\mu$ F
C7	0.1 $\mu$ F	Film	104
C8	33 $\mu$ F	Aluminum Electrolytic	33 $\mu$ F
C9	100 $\mu$ F	Aluminum Electrolytic	100 $\mu$ F

## Potentiometers:

Part ID	Value	Type
R8 - Intensity Control	1k	Reverse Log Taper
R13 - Volume Control	500k	Log Taper
R16 - Pre-Gan Control	50k	Linear Taper

## Other:

Part ID	Part Name
Q1	PNP bipolar junction transistor Examples: 2N5087 or 2N3906
Q2 & Q3	NPN bipolar junction transistor Examples: 2N5088 or 2N4401
D1 & D2	1N34A Germanium diodes
D3	Bypass Status indicator LED
T1	42TM011 Audio Transformer Primary:1.5k ohm, Secondary 500 ohm or any with impedance ratio of about 3:1
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



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	9v battery snap, Printed Circuit Board, 24 gauge stranded wire, Enclosure, Knobs
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