

ToneBender™ (3-knob) Replica (Yard Box™ Modification Version) Bill of Materials
















Version 2014December03

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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)	250k 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 (Gain Control Potentiometer)	250k Linear		
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	4.7 μ F	Aluminum Electrolytic	4.7 μ F
C6	0.1 μ F	Film or Ceramic	104
C7	0.022 μ F	Film or Ceramic	223
C8	None		
C10	None		

Potentiometers:

Part ID	Value	Type
R7 - Fuzz Control	250k	Linear Taper
R11 - Tone Control	100k	Linear Taper
R12 - Gain Control	250k	Linear Taper
R13 - Volume Control	100k	Linear Taper

Other:

Part ID	Part Name
D1	1N34 (or other Germanium diode)
D2	LED
Q1	PNP Germanium bipolar junction transistor
Q2	PNP Germanium bipolar junction transistor



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Q3	PNP 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