



Orange™ Treble-Bass Booster Replica Bill of Materials



















Version 2015March18

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Resistors:

Resistor ID	Value	3-band Marking	4-band Marking
R1	470k	 yellow-violet-yellow	 yellow-violet-black-orange
R2	82k	 gray-red-orange	 gray-red-black-red
R3a	10k	 brown-black-orange	 brown-black-black-red
R3b	0 ohm or jumper wire	 black	 black
R4	2k	 red-black-red	 red-black-black-brown
R5	0 ohm or jumper wire	 black	 black
R6	1k	 brown-black-red	 brown-black-black-brown
R7	C7 is in this space on the PCB		
R8	Blank		
R9	0 ohm or jumper wire	 black	 black
R10	Blank		
R11	390k (placed in pads E & K on the PCB, for version with no Volume Control only)	 orange-white-yellow	 orange-white-black-orange



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Capacitors:

Capacitor ID	Value	Type	Possible Marking
C1	0.0022 μ F or 0.0018 μ F (to taste)	Film or ceramic	222 or 2n2 182
C2	0.1 μ F	Film or ceramic	104
C3	47 μ F	Aluminum Electrolytic	47 μ F
C4	33 μ F	Aluminum Electrolytic	33 μ F
C5	Blank		
C6	Blank		
C7	0.047 μ F or 0.022 μ F (to taste) (placed in the R7 space on the PCB)	Film or ceramic	473 223

Potentiometers:

Part ID	Value	Type
R3 - Tone Control	500k	Linear Taper
R14 - Volume Control (optional)	100k	Linear Taper

Other:

Part ID	Part Name
D1	LED
Q1	Germanium bipolar junction transistor NPN or PNP depending on version you are building
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