



Brown Sound in a Box II

(BSIAB2)

Build Document

Bill of Materials

Capacitors

I obtained all of my capacitors from Tayda. That's what the layout was setup for.

P/N	Value	Type	Notes
C1	100nF	Film Box	
C2	100uF	Aluminum Electrolytic	
C3	1uF	Aluminum Electrolytic	
C3A	1uF	Film Box	
C3B	220nF	Film Box	
C4	68nF	Film Box	
C5	100nF	Film Box	
C6	22nF	Film Box	
C7	470pF	Ceramic	
C8	22nF	Film Box	
C9	150pF	Ceramic	
C10	250pF	Ceramic	
C11	22nF	Film Box	
C12	2n2	Film Box	
C13	2n2	Film Box	

Diodes

I obtained all of my diodes from Tayda.

P/N	Value	Notes
D1	1N400x	Polarity protection.

Transistors

I obtained my transistors from eBay or mklec.

P/N	Value	Notes
Q1	J201	Updated schematics use 2N5457 instead.
Q2	J201	Updated schematics use 2N5457 instead.
Q3	2N5457	
Q4	2N5457	
Q5	J201	Updated schematics use 2N5457 instead.

Resistors

P/N	Value
R1	82k
R2	1M
R3	1M
R4	10k
R5	10k
R6	1M
R7	1M
R8	47k
R9	390R
R10	470k
R11	120R
R12	82k
R13	5k6
R14	1M
R15	680R

Potentiometers

I obtained all of these from Tayda. That's what the layout was setup for. Some pots are onboard, some aren't.

P/N	Value	Notes
BIAS	100k	Trimpot.
GAIN	A500k	
LEVEL	A100k	
TONE	B100k	

Modifications

These are from General Guitar Gadgets (JD Sleep).

More Bass

1. Remove R1. **Do not jumper.** Just remove.
2. Add a 220nF film box cap across R13. This puts it in parallel with R13.

Contour

There are a few different ways to do contour. Take a look at

<http://www.diystompboxes.com/smfforum/index.php?topic=106874.0> and see which one you prefer.

Build Comments

1. Use the BIAS trimpot to set Q3's drain voltage to approximately 4v. This CAN be dialed by ear to see what you prefer (JD Sleep liked 3.4v).
2. Since this is a high gain effect, you may get "squealing" or oscillation when the pots are turned up. Using shielded cable can sometimes help fix this. I added a few extra ground pads for this reason. Keep your wires as short as possible.

Schematic

(Based on gaussmarkov's.)

