

FLATLINE COMPRESSOR

The Flatline Compressor is John Hollis' latest circuit design. See his web page for schematic and other design details. This version is his Rev 1, 10-10-2001 circuit, plus the addition of R2 and R8.

As with all toner transfer patterns, print the actual size layout to toner sheet in a laser printer. Carefully clean the copper blank, and iron on the pattern, watching for the sheet to stick in the pattern of the layout.

Etch in your favorite etchant. The small pads take 0.028 to 0.032 drill bits, the larger pads for connecting wires take 0.040 to 0.045 drill bits. Sustain and volume pots are shown from the back side, as is the Stomp switch. This board fits easily into a Hammond 1590 BB.

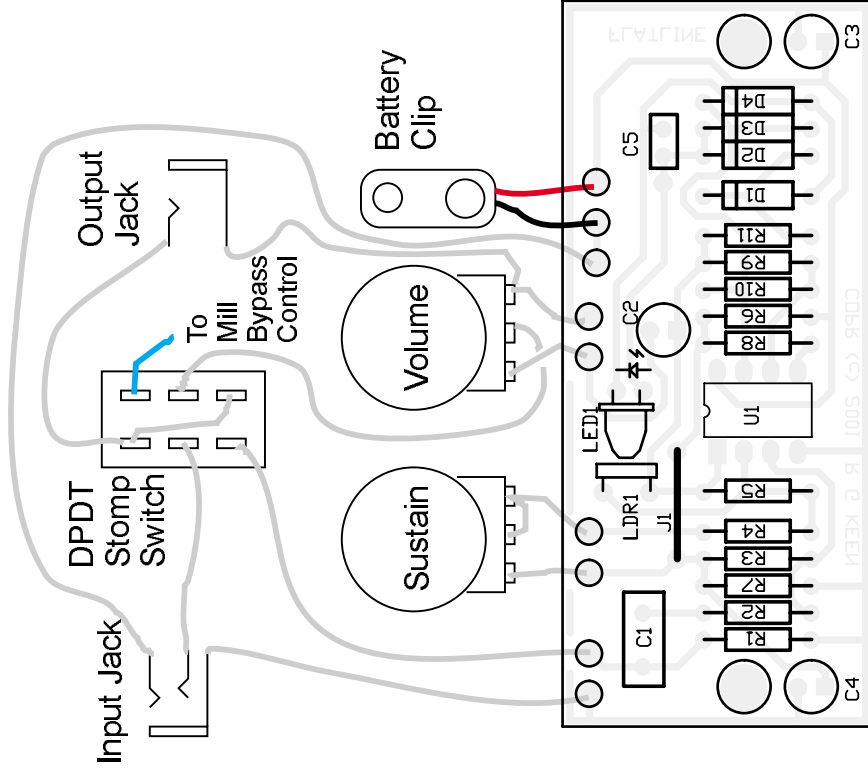
Bill of Materials

Count	Label-Value	Designation	Description
1	1uF	C2	Aluminum Electro
1	0.001 (1nF)	C1	Mylar preferred
2	10uF	C3, C4	Aluminum Electro
1	0.1 uF (100nF)	C5	Ceramic Capacitor
2	10M	R1, R3	1/4W carbon film [1]
2	1K	R2, R8	1/4W carbon film [2]
4	10K	R4, R6, R7, R9	1/4W carbon film
1	220K	R5	1/4W carbon film
1	47K	R10	1/4W carbon film
1	330	R11	1/4W carbon film
1	Jumper Wire	J1	Resistor lead
1	Dual Opamp	U1	TL072 works fine
4	1N34A	D1, D2, D3, D4	Germanium Diode
2	100K log/audio	Sustain, Volume	Control pots

Notes

{1}These resistors could be from about 1M on up. If you lower the value of R3, make sure that you raise the value of C1 in proportion - that is, for R3=1M, make C1=0.01uF (10nF).
 [2]I added R2 and R8 to the design. They can be from zero ohms (a jumper wire) up to about 10K. R2 serves a useful purpose by protecting the input of U1A from damaging inputs. R8 just gets over some other traces, and could be a wire.

[3]Normal effects wrapper parts not listed; box, input and output jacks, bypass switch, hookup wire knobs, battery clip, battery, etc.



Actual
Size
Layout
ready for
toner
transfer

