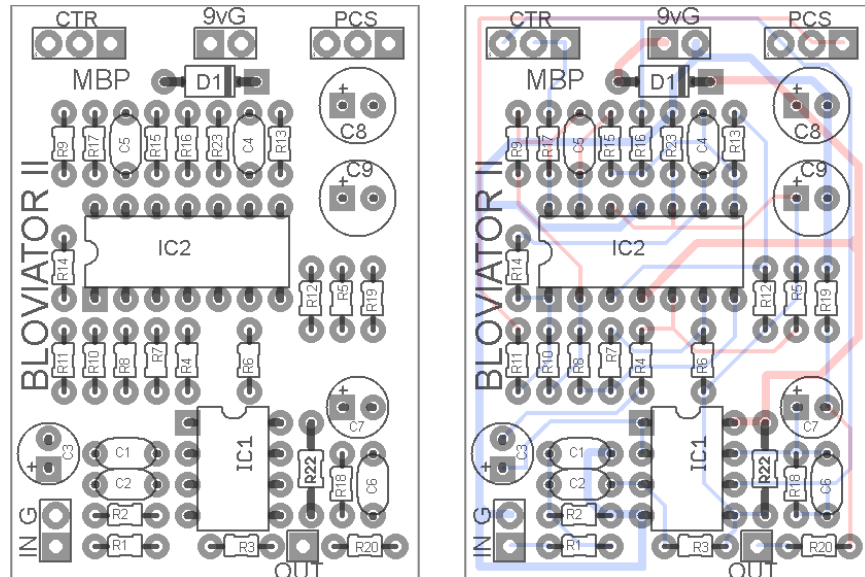


# BLOVATOR II

FX Type: Filter

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1.325" W x 1.86" H

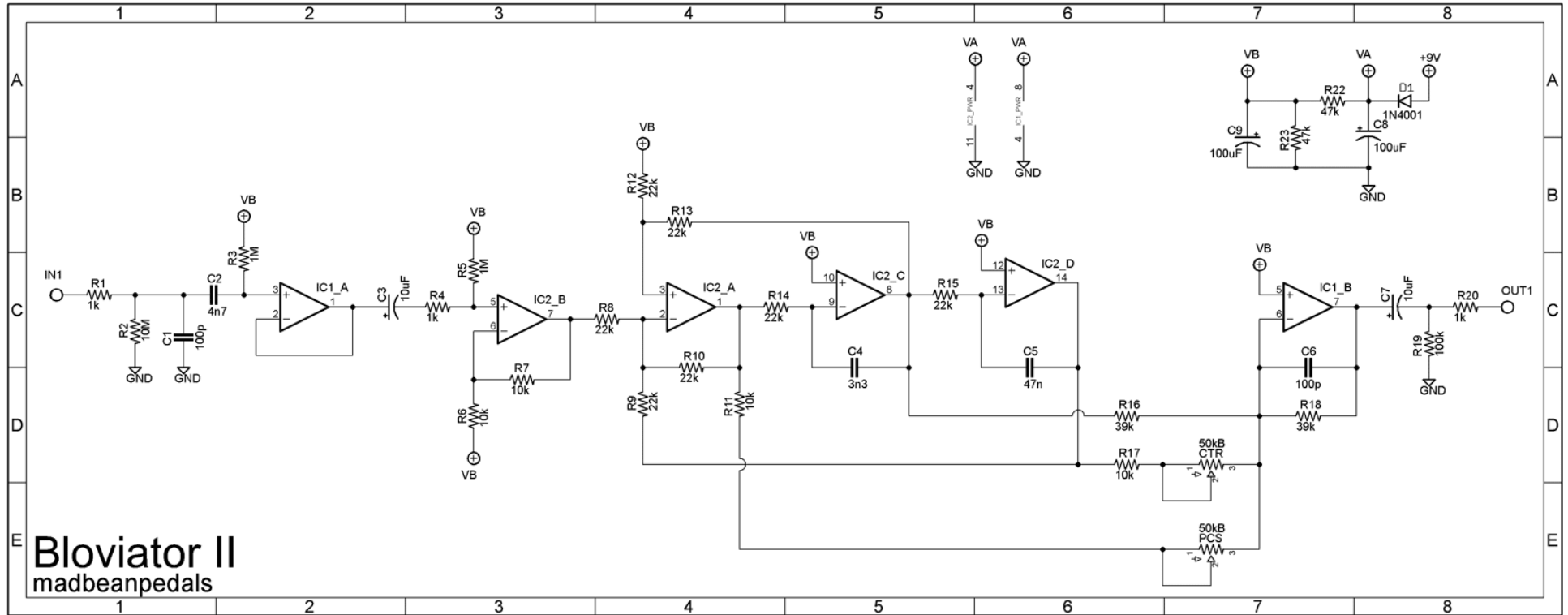


## B.O.M.

Resistors		Caps	
R1	1k	C1	100p
R2	10M	C2	4n7
R3	1M	C3	10uF
R4	1k	C4	3n3
R5	1M	C5	47n
R6	10k	C6	100p
R7	10k	C7	10uF
R8	22k	C8	100uF
R9	22k	C9	100uF
R10	22k	<b>Diode</b>	
R11	10k	D1	1N4001
R12	22k	<b>ICs</b>	
R13	22k	IC1	TL072
R14	22k	IC2	TL074
R15	22k	<b>Pots</b>	
R16	39k	CTR	50kB
R17	10k	PCS	50kB
R18	39k		
R19	100k		
R20	1k		
R22	47k		
R23	47k		

Value	QTY	Type
100k	1	1/8W
10k	4	1/8W
10M	1	1/8W
1k	3	1/8W
1M	2	1/8W
22k	7	1/8W
39k	2	1/8W
47k	2	1/8W
100p	2	Ceramic
100uF	2	Electrolytic
10uF	2	Electrolytic
3n3	1	Film/MLCC
47n	1	Film/MLCC
4n7	1	Film/MLCC
1N4001	1	
TL072	1	
TL074	1	
50kB	2	9 or 12mm

# SCHEMATIC



**Bloviator II**  
madbeanpedals

## OVERVIEW

The Bloviator is based on the legendary BBE Sonic Maximizer technology which purports to correct deficiencies in phase and amplitude alignment between low and high frequency content that occur when amplifying electronic instruments. The circuit is based on the concept of a “[state variable](#)” filter and provides controls for both low and high end processing. The original Bloviator project was based on further refinements done by Bajaman for his “Sonic Stump” (which is designed around the easy-to-source TL0x variety integrated circuits).

The Bloviator II has been revised even further to fit in a 1590A style enclosure. It will add additional clarity, headroom and dynamics to your guitar signal and can be used in almost any spot in your signal chain (experiment by putting it at the end of your chain and also before overdrives or distortions—much like you would with a boost).

**CTR** – The “Contour” control adds up to +12db of signal filtering centered on 50Hz.

**PCS** – The “Process” control adds up to +12db of signal filtering centered on 10kHz.

## NOTES

Additional changes were made from the original Bloviator project: the Vb buffer was eliminated for the sake of space saving, the input section was slightly redesigned and one resistor value has been altered. While buffering the bias supply rail is good design practice in almost any type of effect, it is not necessary for the circuit to function correctly, esp. with the availability of well-regulated power supplies. The input section was altered slightly to a more sensible one, namely an input buffer with a subsequent (small) gain stage. Lastly, the feedback resistor in the last gain stage was reduced to offset the slightly hotter input section. The end result is every bit as good as the original Bloviator project but in a tiny form factor that you can easily “set and forget” on your pedalboard.

**Mod idea (untested):** Make R18 an external 100kB pot for a “boost” control. Wire one pad of R18 to a 10k resistor. The other end of that resistor goes to the wiper of a 100k pot. Lug1 of the pot goes to the other R18 pad on the PCB. Done this way, the pot will give an additional clean boost to the CTR and PCS pot settings.

Please be sure to download the [Baby Board Build Guide](#)

### Licensing

***Bloviator II** PCBs purchased from madbeanpedals may be used for small quantities of commercial pedal building (keep in mind that bulk discounting on PCBs is not offered). You may not, however, offer Baby Board PCBs for commercial resale (re-distribution) or as part of a “kit”.*

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