

BLOVIATOR

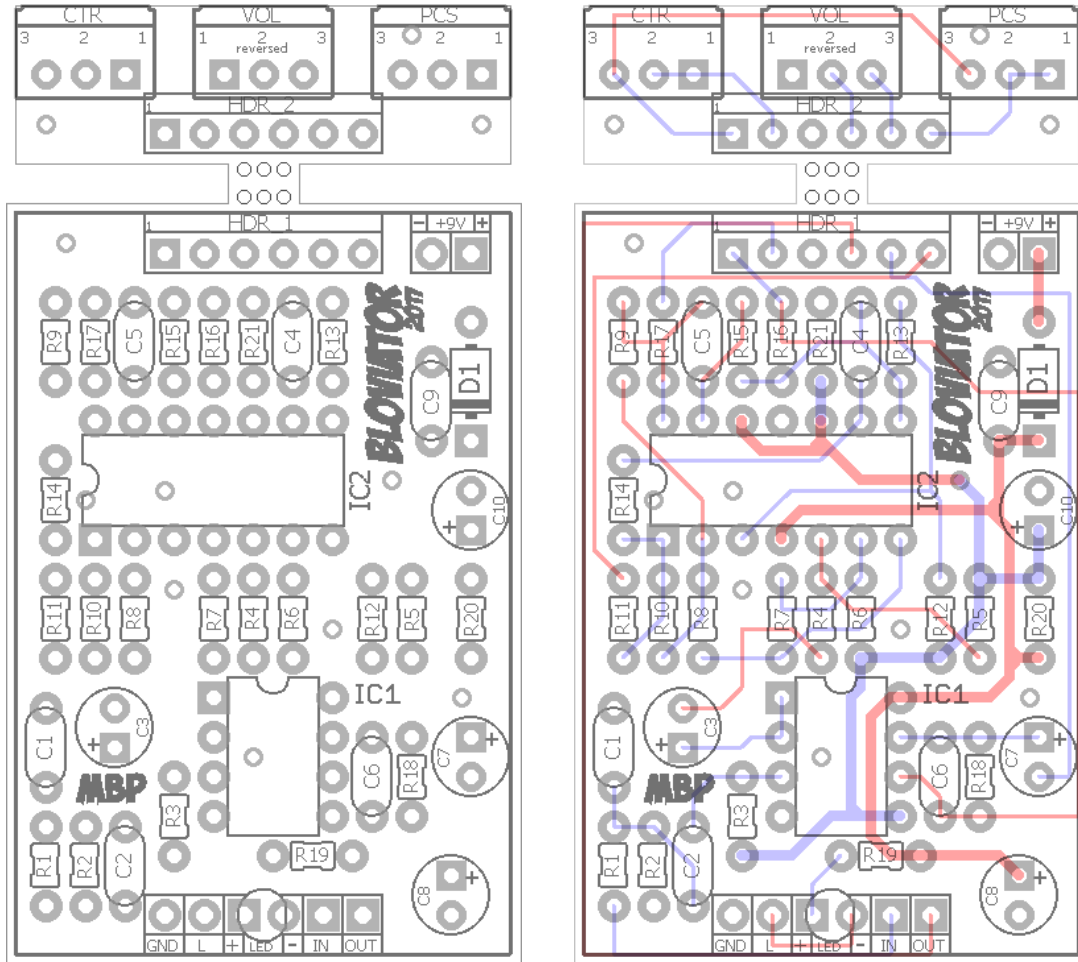
FX TYPE: Filter

Based on the Bajaman Sonic Stump

2017 ed.

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1.3" x 1.925" H (main board)



Previous versions can be found in the Archive

<http://www.madbeanpedals.com/projects/ARCHIVE/BabyBoards/>

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B.O.M.			
Resistors		Caps	
R1	1k	C1	100pF
R2	10M	C2	4n7
R3	1M	C3	10uF
R4	1k	C4	3n3
R5	1M	C5	47n
R6	10k	C6	100pF
R7	10k	C7	10uF
R8	22k	C8	47uF
R9	22k	C9	100n
R10	22k	C10	10uF
R11	10k	Diodes	
R12	22k	D1	1N5817
R13	22k	IC	
R14	22k	IC1	TL072
R15	22k	IC2	TL074
R16	39k	Pots	
R17	10k	CTR	50kB
R18	56k	PCS	50kB
R19	4k7	VOL	100kA
R20	47k		
R21	47k		

Shopping List			
Value	QTY	Type	Rating
1k	2	Metal / Carbon Film	1/8W
4k7	1	Metal / Carbon Film	1/8W
10k	4	Metal / Carbon Film	1/8W
22k	7	Metal / Carbon Film	1/8W
39k	1	Metal / Carbon Film	1/8W
47k	2	Metal / Carbon Film	1/8W
56k	1	Metal / Carbon Film	1/8W
1M	2	Metal / Carbon Film	1/8W
10M	1	Metal / Carbon Film	1/8W
100pF	2	Ceramic / MLCC	16v min.
3n3	1	Film	16v min.
4n7	1	Film	16v min.
47n	1	Film	16v min.
100n	1	Film	16v min.
10uF	3	Electrolytic	16v min.
47uF	1	Electrolytic	16v min.
1N5817	1		
TL072	1		
TL074	1		
50kB	2	PC Mount Right Angle	9mm
100kA	1	PC Mount Right Angle	9mm

9mm Pots

<http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-9mm-pc-mount/>

Like all Baby Board builds, you must use low-profile Electrolytic caps when building them in a 1590A enclosure. If you need help finding the proper components have a look at the **1590G Component Buying Guide** which has details and links. These are the same types of components used in the 1590A builds.

http://www.madbeanpedals.com/projects/1590G/1590G_PartsGuide.pdf

Overview

The 2017 edition of the Bloviator adds a volume pot and has very minor circuit tweaks.

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 (*I mean, obviously*). 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 will add 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.

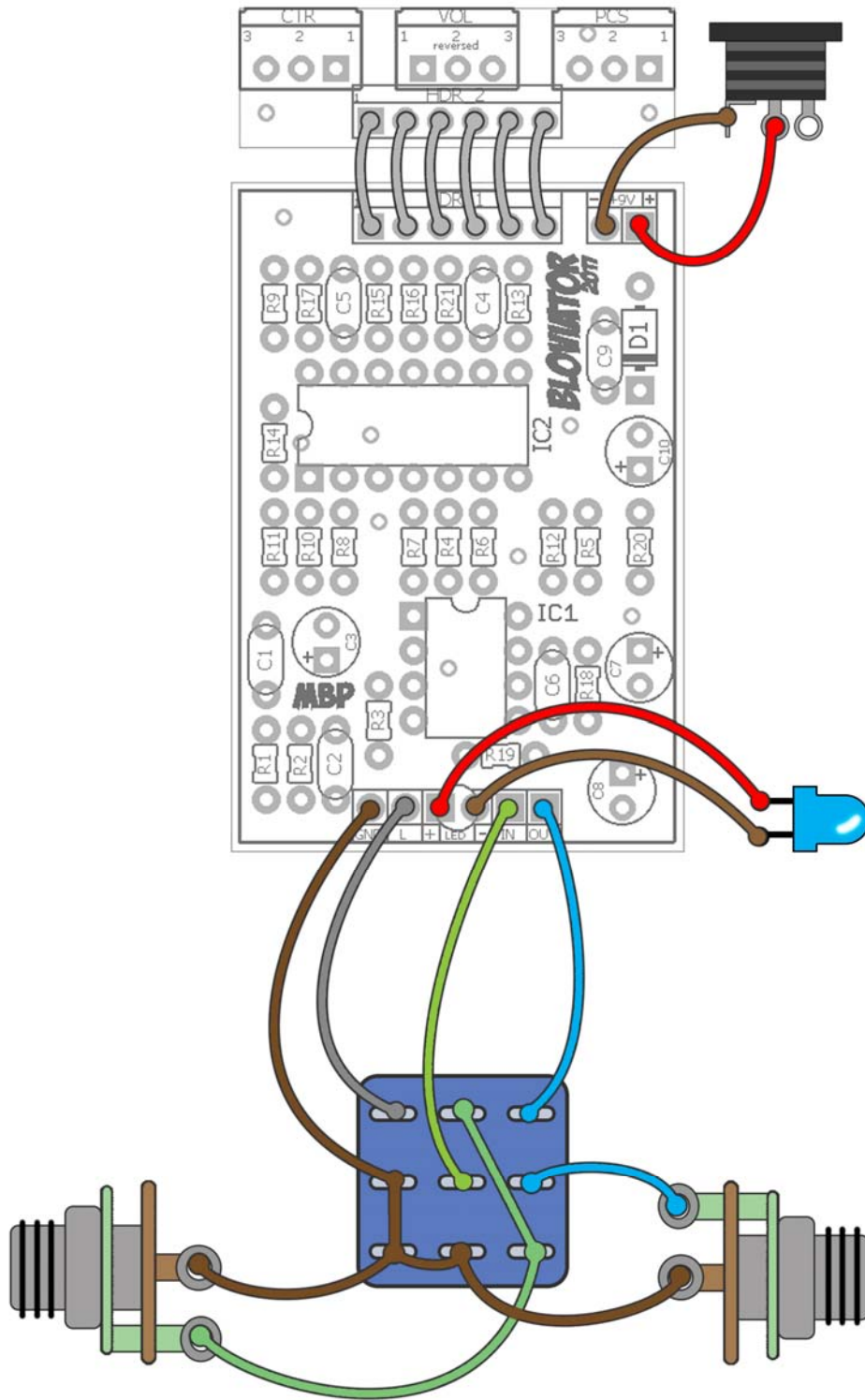
VOL – Output volume.

Overview

The Bloviator consists of two boards – a main board and daughter board. These should be separated before you begin building. Gently break the two boards apart at the bridge with finger pressure. You can use a wire cutter to trim the excess, if you like.

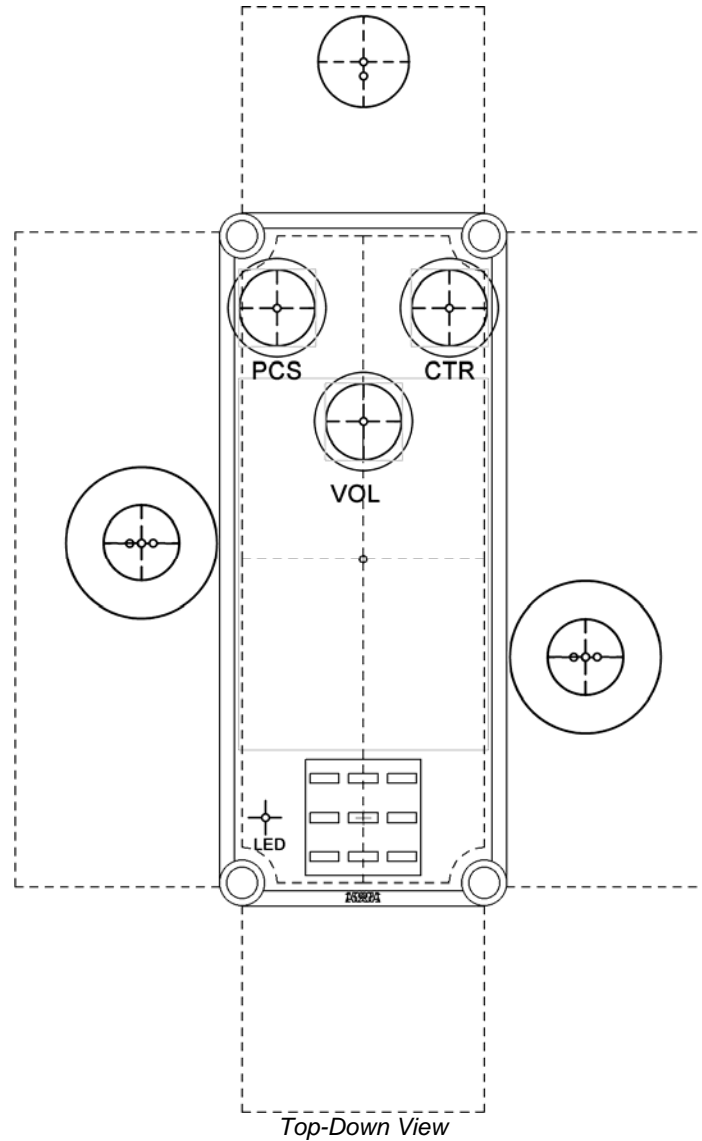
The two boards are connected with a row of wires from HDR1 to HDR2 (see wiring example below). The **PCS** and **CTR** pots are mounted on the **TOP** side of the daughter board and the **VOL** pot is mounted on the **BOTTOM** side of the daughter board to create the classic control triangle. In case you get confused, the TOP side of the daughter board has both the PCS and CTR pads labeled 3, 2, 1 from left to right and the VOL pads labeled 1, 2, 3.

Wiring



1590A Drill Guide

3.64" W x 5.76" H



Download the Photoshop Drill Guide here:

http://www.madbeanpedals.com/projects/Bloviator/docs/Bloviator2017_Drill.zip

