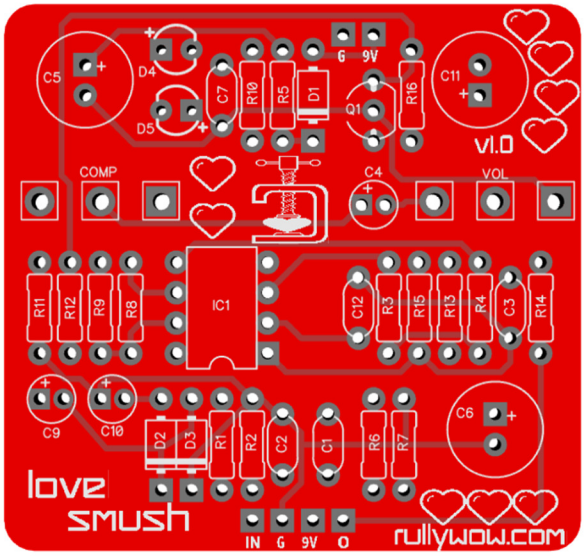
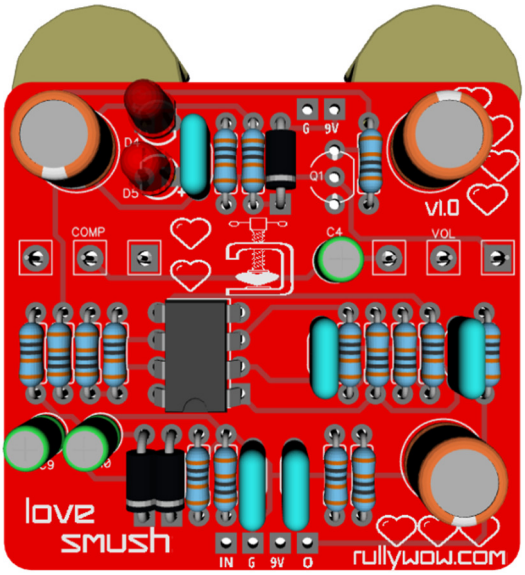
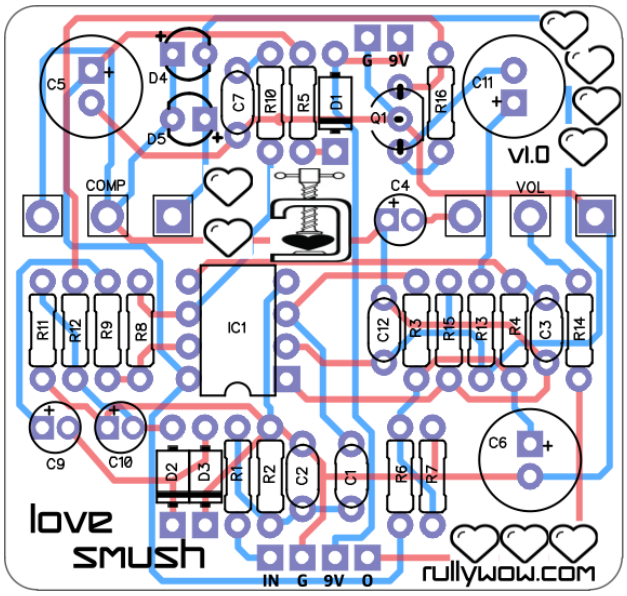
"Love Smush"
Compressor







Description:

Based off the Rothwell Love Squeeze compressor circuit, the Love Smush is a very simple but good sounding compressor. Without using a LDR/LED (Vactrol) combination, the circuit is able to tame the dynamics of both guitars and bass guitars with outstanding results. This is a fairly easy build, so let's get started!

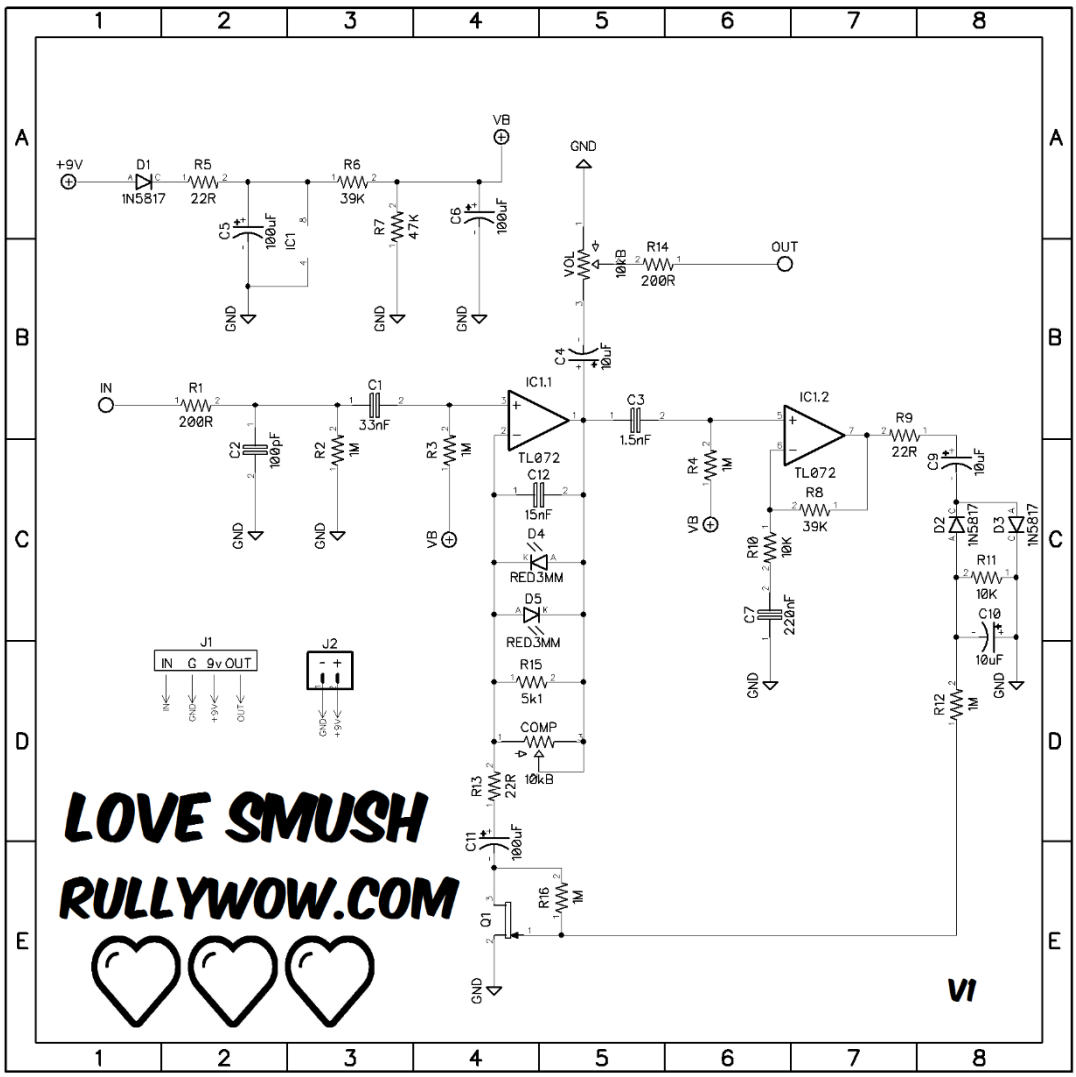
Love Smush v1

Caps			Diodes		Resistors	
C1	33nF	film	D1-D3	1n5817	R1	200R
C2	100pF	ceramic	D2, D3	BAR43S*	R2	1M
C3	1.5nF	film	D4, D5	RED 3MM	R3	1M
C4	10uF	electro	IC		R4	1M
C5	100uF	electro	IC1	TL072	R5	22R
C6	100uF	electro	Transistor		R6	39K
C7	220nF	film	Q1	2n5457	R7	47K
C9	10uF	electro	Pots		R8	39K
C10	10uF	electro	COMP	10kB	R9	22R
C11	100uF	electro	VOL	10kB	R10	10K
C12	15nF	film			R11	10K
					R12	1M
					R13	22R
					R14	200R
					R15	5k1
					R16	1M

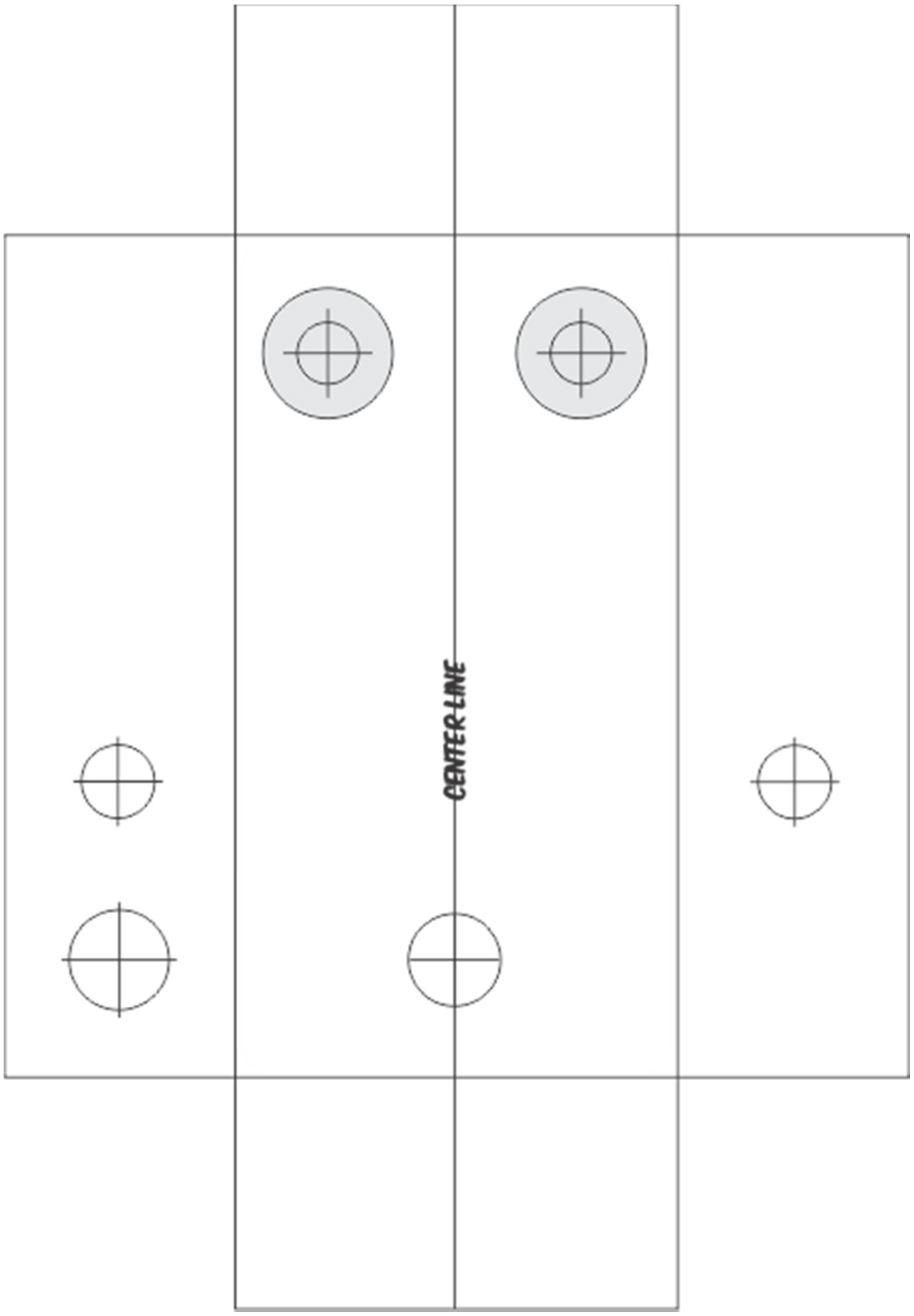
Tips:

- **NEW!** The **MS Excel** version of the BOM is now available on the product page. With this you can do cool things like sort the BOM by value or possibly make notes for yourself for easier building/shopping etc.
- **Enclosure Size...** This pedal is designed to fit into a 1590B
- **BAR43S:** These can be substituted with the 1n5817 diode.
- It is always a good call to solder components from shortest height to tallest. In this case, you should start with resistors, diodes, film caps, transistors and the electrolytic caps last.
- The IN/G/9V/OUT pads are a direct match to Rullywow.com 3PDT and Detour Optical Bypass PCBs..pick some of these cool PCBs up for a super-easy building experience at rullywow.com
- All pots are designed for 16mm Alpha Right Angle PCB mount. I normally grab these from Tayda Electronics, however Smalbear and Mammoth have them as well. I always suggest to drill holes in your enclosure first, and mount the pots and switch with the nuts **BEFORE** soldering the pots to the PCB. This ensures you won't put a lot of stress on the PCB and everything lines up nicely.
- **9v/GND** pads are included at the top of the PCB for your convenience. You can use these or not. Helpful if you want to put your DC jack at the top of the enclosure for example.

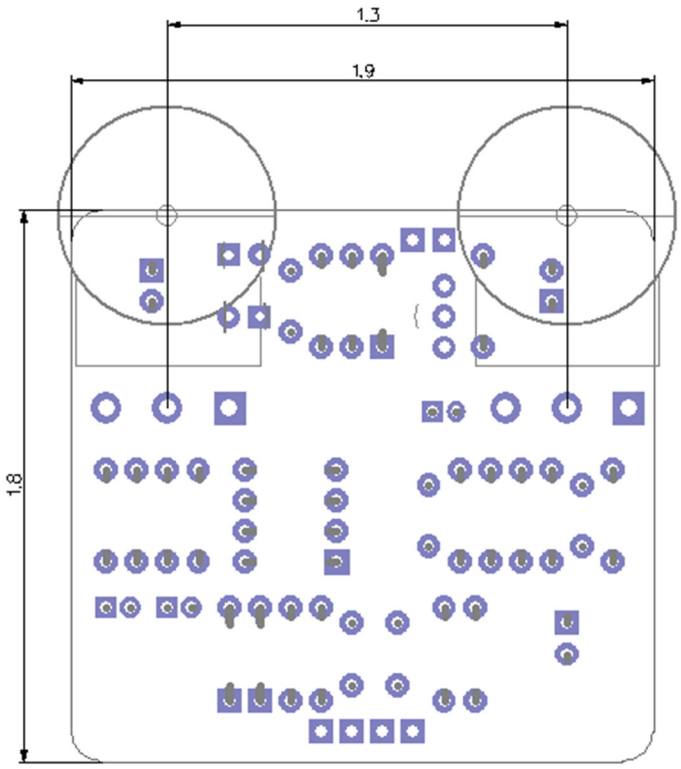
- **The 1n4007** diodes can be substituted for 1n4001 or whatever 1n4xxx you may have on hand.
- Be sure to insulate the pots from shorting on the back of the PCB. There are special pot covers (like from Smallbear or Mammoth) or you may use non-conductive tape or some other insulating material like cardboard etc.
- Before putting your creation into its enclosure, you should always test it! If it doesn't work outside the enclosure, it won't work inside (I promise!)



Drill Template (1590B/1590NS)



Please note that this drill template is approximate. Please check all measurements before you commit to drill!



Dimensions: 1.9w" x 1.8h"

Tips for a Successful Build:

- PCB mounted pots are 16mm Alpha type. It is suggested to put them in the enclosure first, tighten the nuts, then solder them to the PCB. This avoids stress on the PCB and ensures they are aligned properly.
- The IN/GND/9V/OUT pads on the PCB are a perfect match for the 3PDT boards available at www.rullywow.com
- Always test your finished PCB first with a test rig or similar. If it doesn't work "outside the box," it won't work inside...I promise!

Terms of Use:

- PCBs from www.rullywow.com are intended for DIY use and are prohibited for commercial resale. It is OK to build (and sell) a few pedals for your friends, bandmates, yourself (that is what the DIY guitar pedal community is all about!). *Don't be a tool* and goop over the name on the PCB in an attempt to hide where it came from. Thank you.