

## Description:

The **UBERLEAD Distortion** is inspired by the Lovepedal® Superlead pedal. The circuit uses 3MM LED and silicon diodes to achieve a great Marshall-esque tone which owes lots of its lineage to the Marshall Guv'Nor and similar circuits. This is a simple build and should be an easy one to assemble quickly and accurately. PCB designed to fit in a standard 1590B enclosure.

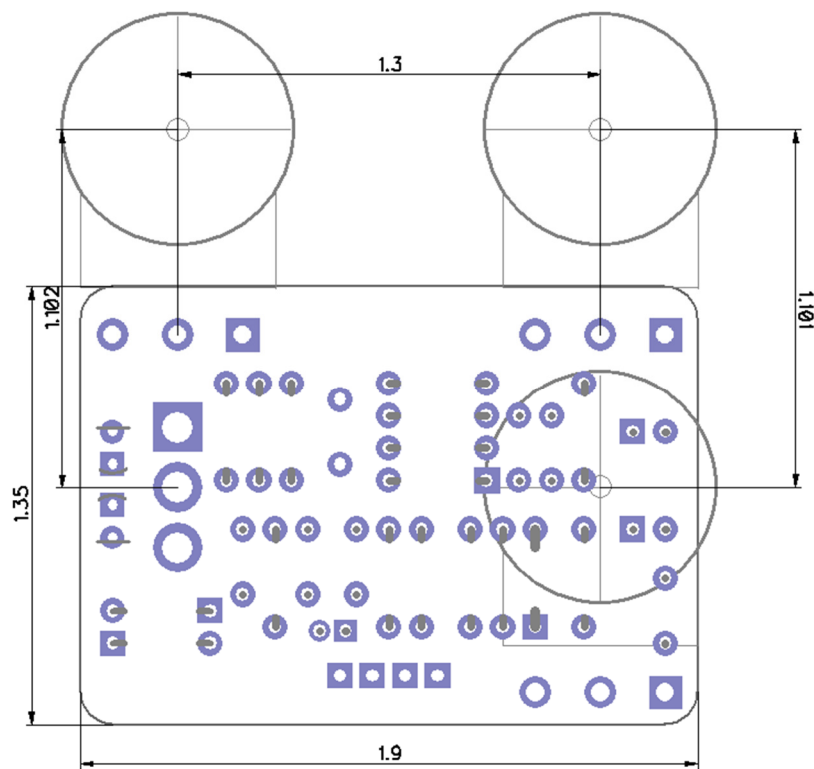
Uberlead v1									
Caps			Diodes			Resistors			
C1	3n3	film	D1	1n4001		R1	1K		
C2	47n	film	D2, D3	1n4148		R2	1M		
C3	220n	film	D4, D5	3mm red diff LED		R3	1K		
C4	47n	film				R4	1M		
C5	200p	ceramic				R5	10k		
C6	10uF	electro	IC			R6	820k		
C7	10n	film	IC1	4558 or TL072		R7	10k		
C8	100n	film	Switch			R8	1k5		
C9	47uF	electro	MIDS	ON-off-ON		R9	22k		
C10	47uF	electro				R10	22k		
						POTS			
						DRIVE	100kA		
						TONE	25kB		
						VOL	100kA		

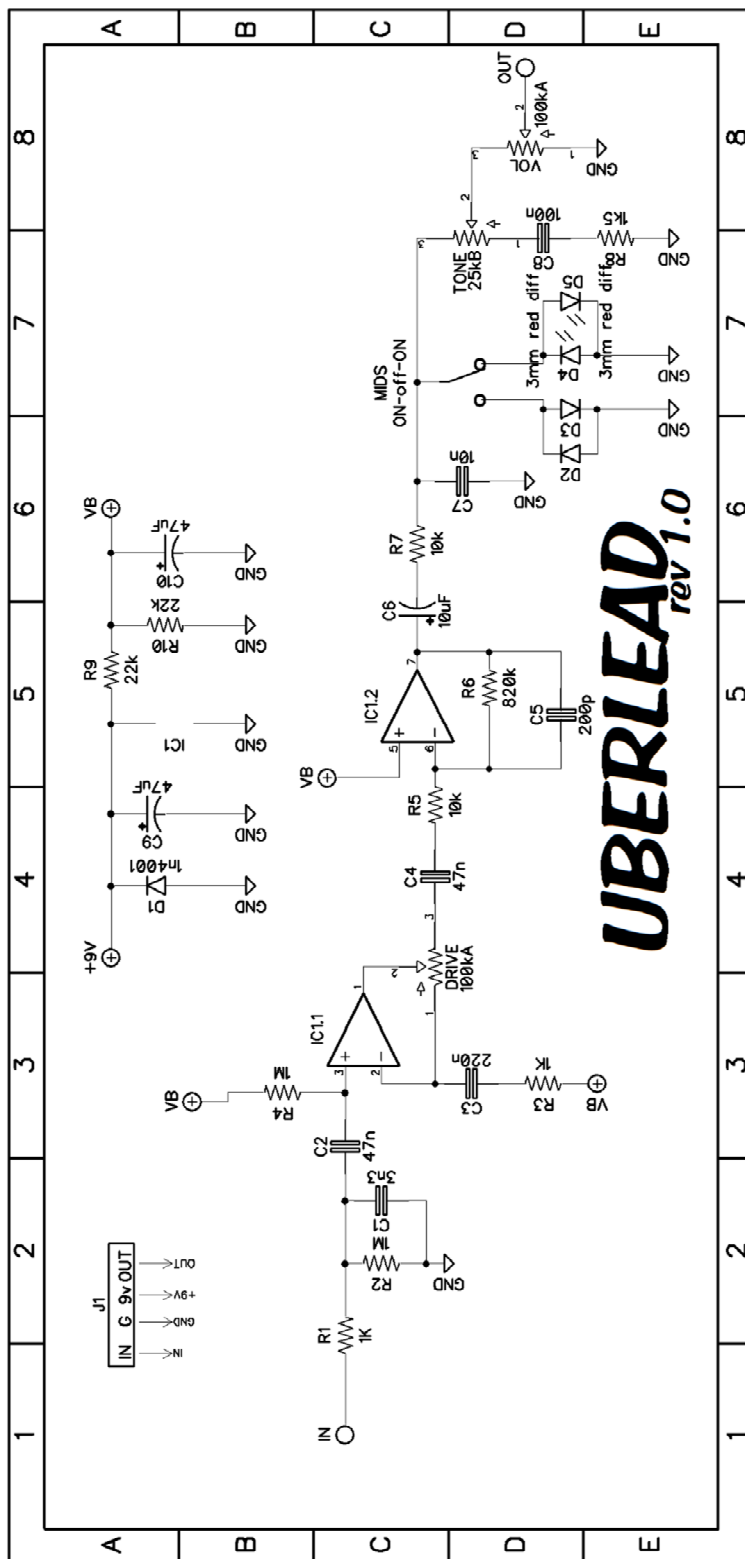
## Build Tips & Tricks:

- **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
- **Mids Switch:** is a on-off-on (center off) toggle. This can be solder lug or pin mount. Both will work. The switch actually toggles between the 1n4148 pair and the RED LED pair for clipping.
- **Diodes:** You can substitute other diodes for the 1n4148 and the RED LED. I find the RED LED work best in either difused or clear packages. It's best to keep the pairs the same type. Feel free to use SIP sockets and experiement.
- 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, IC, 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.
- 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!)

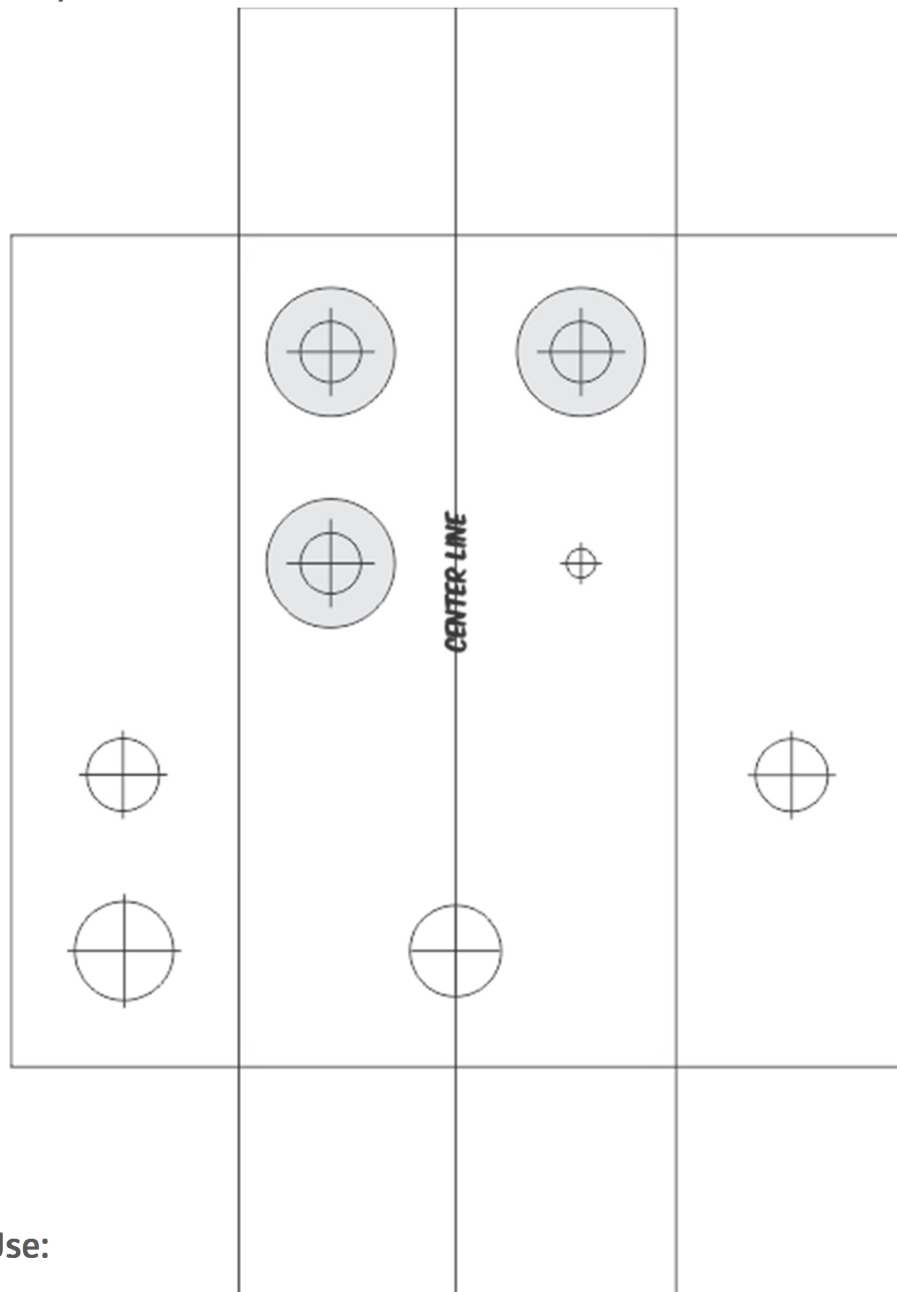
### ***PCB DIMENSIONS = 1.9"W X 1.35"H***





## Drill Guide (1590B) :

This is an *APPROXIMATE* drill guide and is untested. Enclosures differ in size so be sure to measure before your commit to drill!



## Terms of Use:

- PCBs from [www.rullywow.com](http://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.