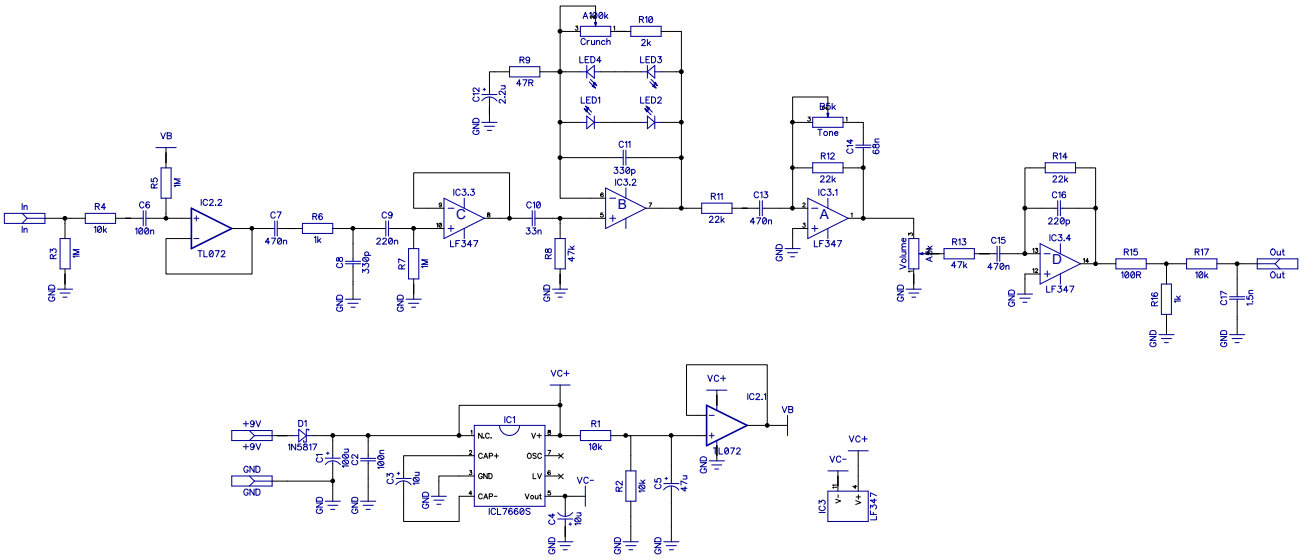
Graveyard

Based on Madbean Boneyard II and Carl Martin Plexitone

Release date: 2017. 09. 12.

Graveyard is a clone of Madbean's Boneyard II, which in turn is a modded version of Carl Martin's Plexitone. It is a nice sounding marshallesque overdrive. Very touch sensitive and responds well to a booster in front of it.

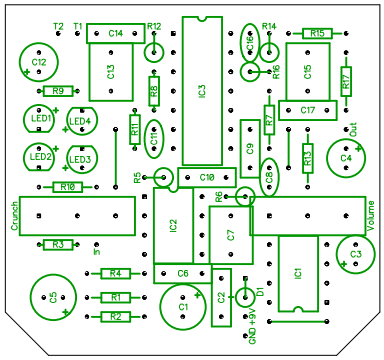
SCHEMATIC

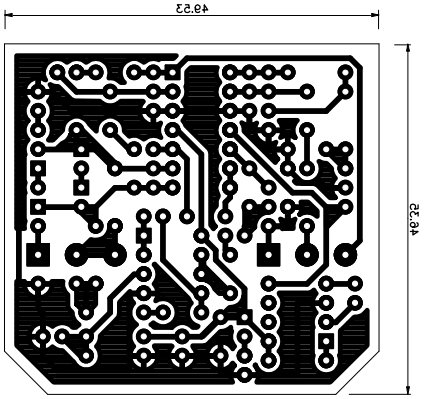


BOM							
Resistors		Capacitors		Semiconductors		Others	
R1	10k	C1	100u	D1	1N5817	Crunch	A100k
R2	10k	C2	100n	LED1	3mm red	Tone	B5k
R3	1M	C3	10u	LED2	3mm red	Volume	A5k
R4	10k	C4	10u	LED3	3mm red		
R5	1M	C5	47u	LED4	3mm red		
R6	1k	C6	100n	IC1	ICL7660S		
R7	1M	C7	47n	IC2	TL072		
R8	47k	C8	330p	IC3	LF347		
R9	47R	C9	200n				
R10	2k	C10	33n				
R11	22k	C11	330P				
R12	22k	C12	2.2u				
R13	47k	C13	470n				
R14	22k	C14	68n				
R15	100R	C15	470n				
R16	1k	C16	220p				
R17	10k	C17	1.5n				

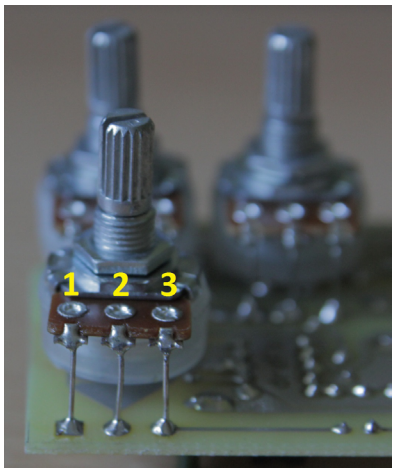
LAYOUT

Print out the PCB design without any resizing options and make sure you switch off the “fit to page” option. The design is free for personal/home use and you also may build one or two for your friends, but the PCB layout is my artwork, therefore protected by copyright and is not permitted to be used for commercial purposes.





NOTES

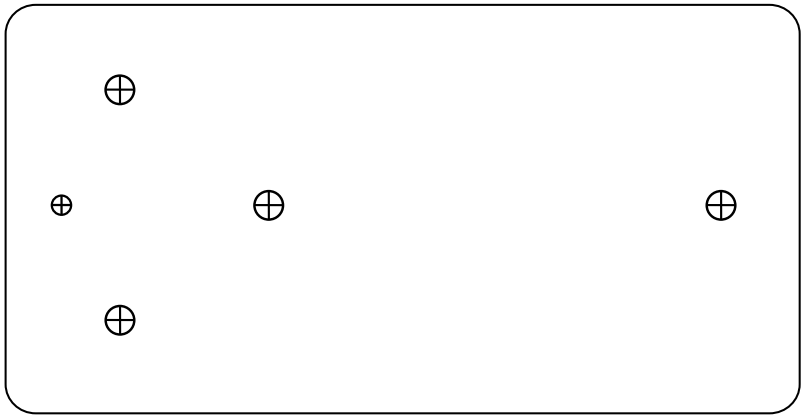


The Crunch and Volume pots are board mounted to the bottom of the board, the Tone pot has only the solder pads, connect it with wires. The square pads mark the lug 1, for the numbering of the lugs see the picture.

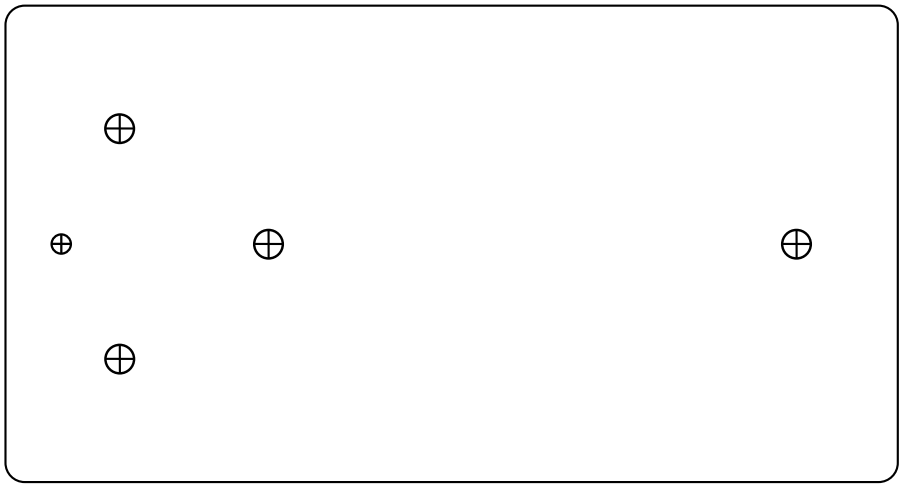
The effect sounds pretty good as is, but you might want to get a bit more „oomph” out of it. To achieve that you can increase the Crunch pot to 250k. Also you might want to experiment with the clipping section. I found that replacing one of the LEDs with a jumper gives a nice asymmetrical clipping and also a bit more compression and distortion. Using lower forward voltage diodes (si, Ge, Schottky – just socket them and experiment) might give you even more distortion and compression.

DRILLING TEMPLATES

Here are two templates for the top of the box for the various box sizes. The design fits in both 1590B and 125B, however if you are less experienced you may find the 125B enclosure easier to work with.



1590B



125B