

Description:

Another sweet overdrive you can build yourself easily. The "VaporRay" is an overdrive circuit inspired by the Vemuram Jan Ray pedal. Looking at the schematic, the circuit is pretty similar to the Timmy overdrive, with some tweaks in the tone stack section. Clipping diodes add to the flavor of the pedal, so feel free to experiment with them by swapping them out. The internal trimmer adjusts the bass response, just as on the original pedal.

Feature Set:

- Pads line up with rullywow.com 3PDT boards
- Internal bass trimmer
- Very easy to build!

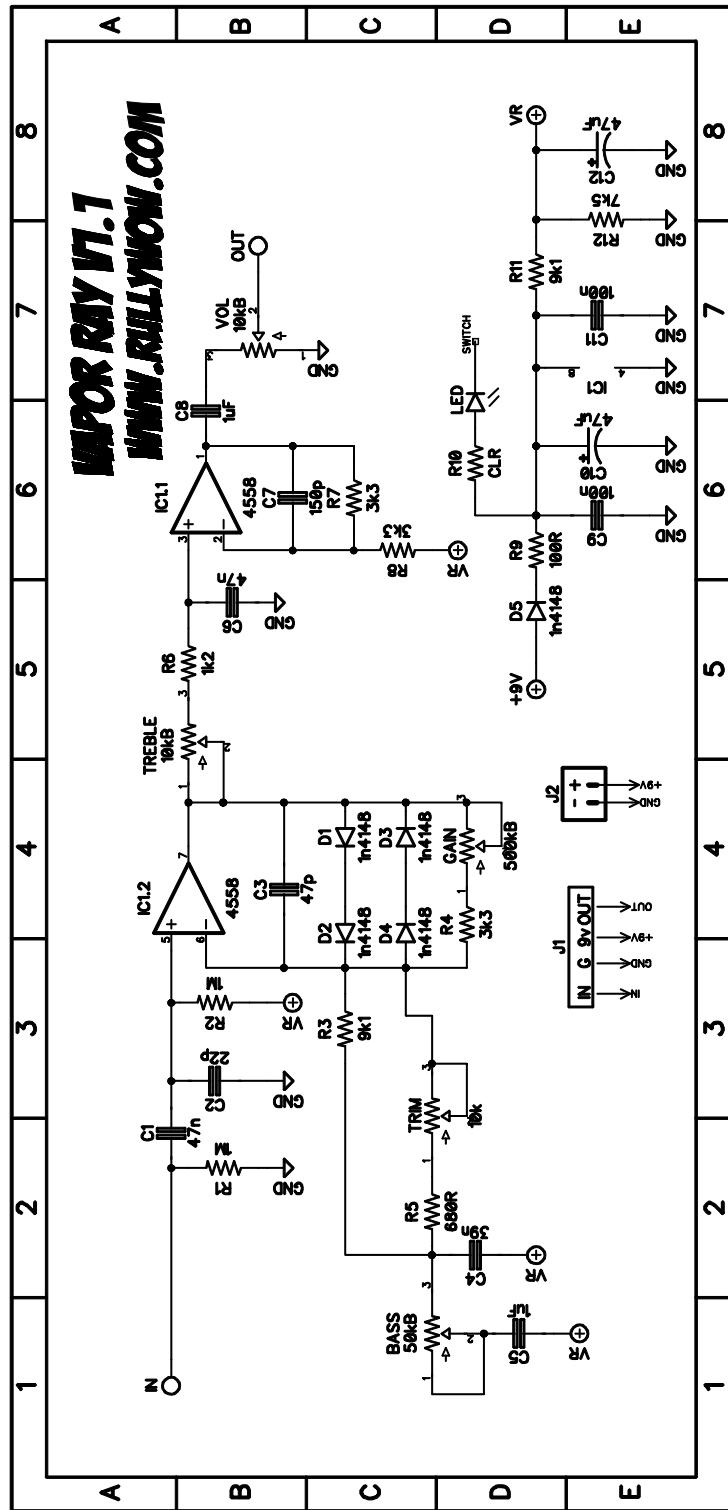
Bill of Materials:

CAPACITORS			DIODES		RESISTORS	
C1	47n	film	D1-D5	1n4148*	R1	1M
C10	47uF	electro	POTS		R10	CLR
C11	100n	film	GAIN	500kB	R11	9k1
C12	47uF	electro	BASS	50kB	R12	7k5
C2	22p	ceramic	TREBLE	10kB	R2	1M
C3	47p	ceramic	TRIM	10k (trim)	R3	9k1
C4	39n	film	VOL	10kB	R4	3k3
C5	1uF	film	IC		R5	680R
C6	47n	film	IC1	4558	R6	1k2
C7	150p	ceramic	LED		R7	3k3
C8	1uF	film	LED	3mm	R8	3k3
C9	100n	film			R9	100R

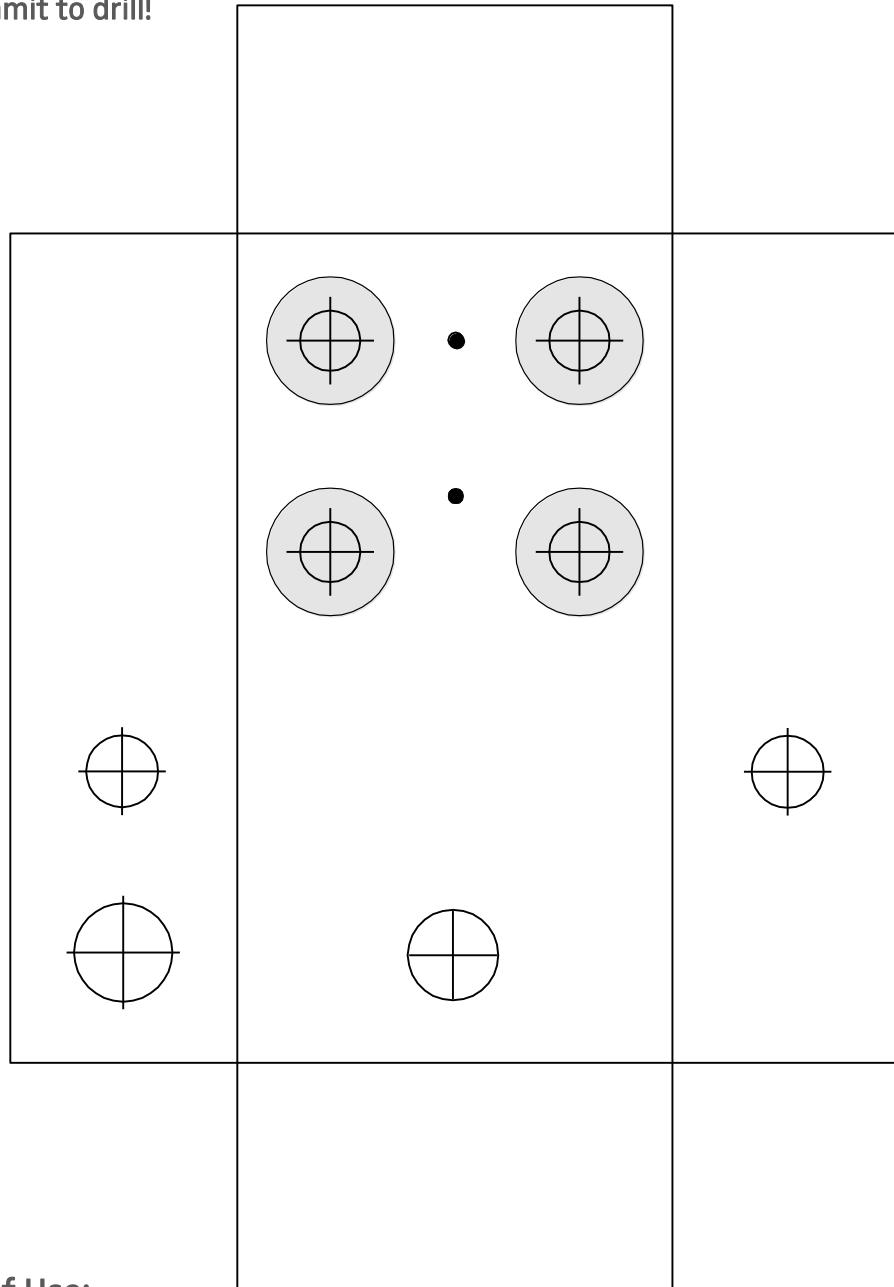
Build Tips:

- It is a good idea to solder components from shortest height to tallest. In this case, you should start with resistors, diodes, film caps, electrolytic caps, and IC/sockets.
- 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!)
- The clipping diodes in the original (D1-D4) are suggested to be 1n4148. You may want to socket these and try different types of diodes. You could use anything from green leds, to 1n4148, etc. Red seems to have the most "EL34 type" crunch. 1s1588 are also pretty tasty

Schematic:



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



Terms of Use:

- PCBs from www.rullywow.com are intended for DIY use and are not allowed 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!). Rock on.