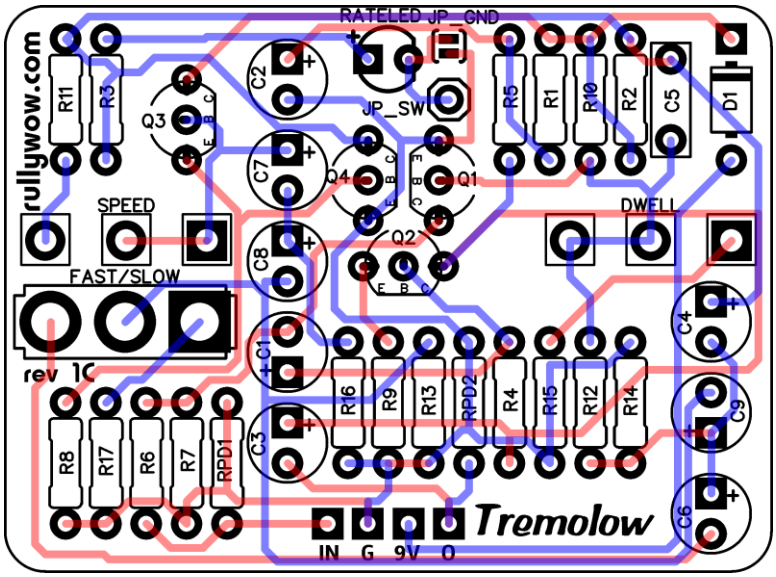
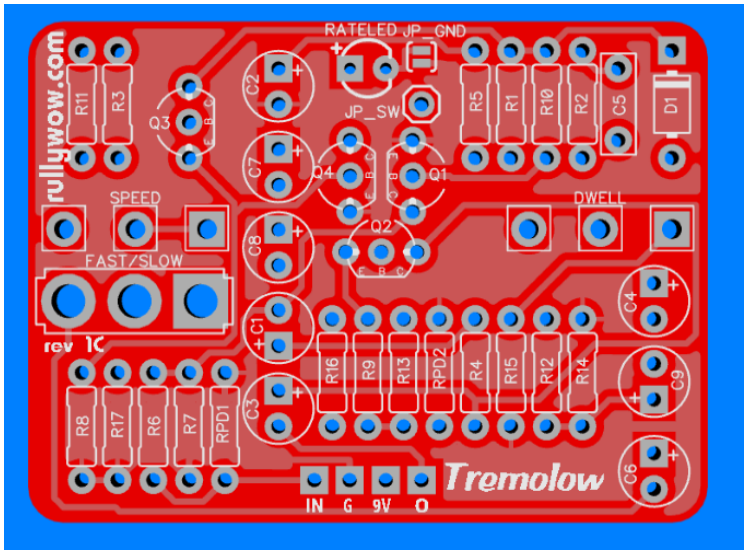
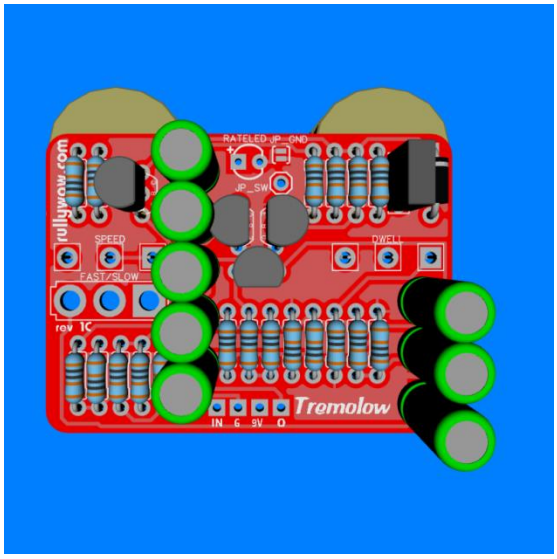






Description:

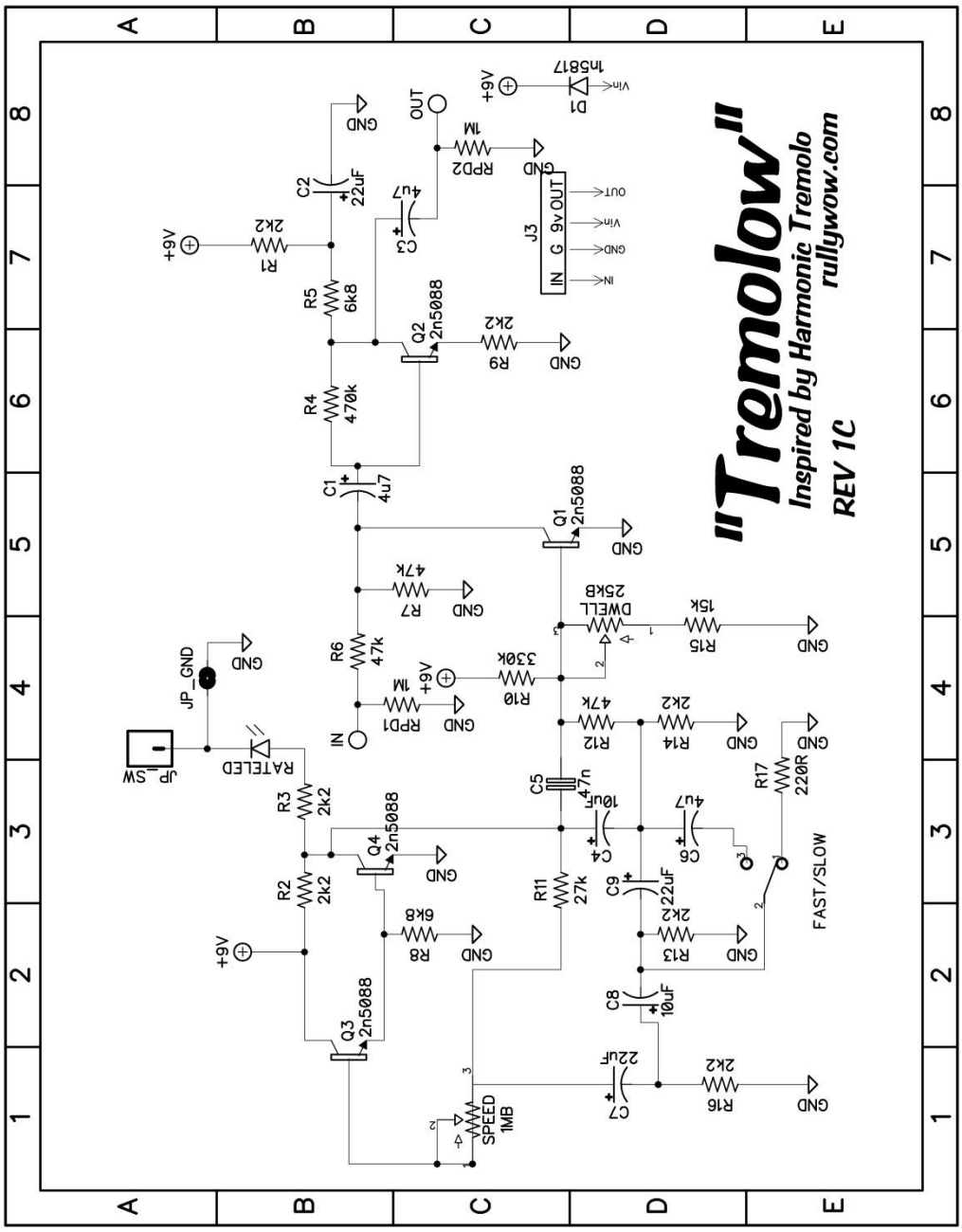
The Tremolow is based on MarkM's adaptation of the Schaller Harmonic Tremolo, with a few changes. There were some issues with popping when switching, and the addition of some pull down resistors on the input and output helps this. A great sounding, fairly easy-to-build project!

Tremolow v1C				
Caps			**Resistors**	
C1	4u7	electro	R1	2k2
C2	22uF	electro	R2	2k2
C3	4u7	electro	R3	2k2
C4	10uF	electro	R4	470k
C5	47n	film	R5	6k8
C6	4u7	electro	R6	47k
C7	22uF	electro	R7	47k
C8	10uF	electro	R8	6k8
C9	22uF	electro	R9	2k2
Diode			R10	330k
D1	1n5817		R11	27k
Pots			R12	47k
DWELL	25kB		R13	2k2
SPEED	1MB		R14	2k2
Switch			R15	15k
FAST/SLOW	SPDT		R16	2k2
Transistors			R17	220R
Q1-Q4	2n5088		RPD1	1M
			RPD2	1M

Build Tips & Tricks:

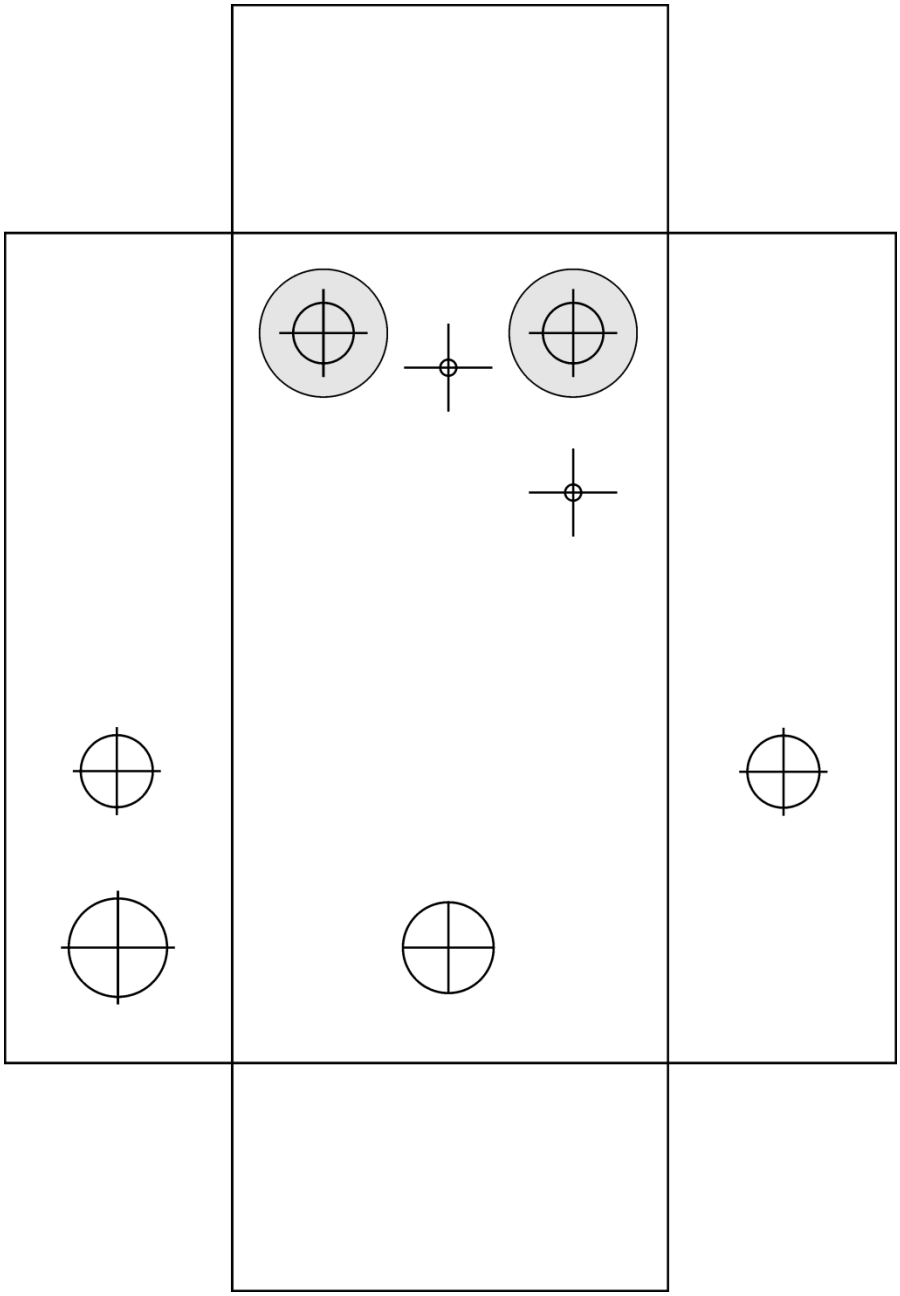
- The **RATELED** blinks in time to the LFO. To have it blink all the time when powered, solder the **JP_GND** with a blob of solder. If you wish to switch the rate LED on/off...don't solder the jumper. Instead connect a switched ground wire to **JP_SW.**
- It is a good call to solder components from shortest height to tallest. In this case, you should start with resistors, diodes, film caps, IC, and the electrolytic caps last.
- The RPD1 and RPD2 resistors are pull down resistors. They may not be required, however it is recommended you add them if there is any popping when switching.
- The IN/G/9V/OUT pads are a direct match to Rullywow.com 3PDT and Optical Bypass PCBs

- All pots are 16mm Alpha PCB mount. It is a very good idea to drill holes in your enclosure first, and mount the pots with the nuts **BEFORE** soldering the pots to the PCB. This ensures you won't put a lot of stress on the PCB.
- Be sure to insulate the pots from shorting on the back of the PCB. There are special pot covers or you may use tape or some other insulating material.
- 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!)

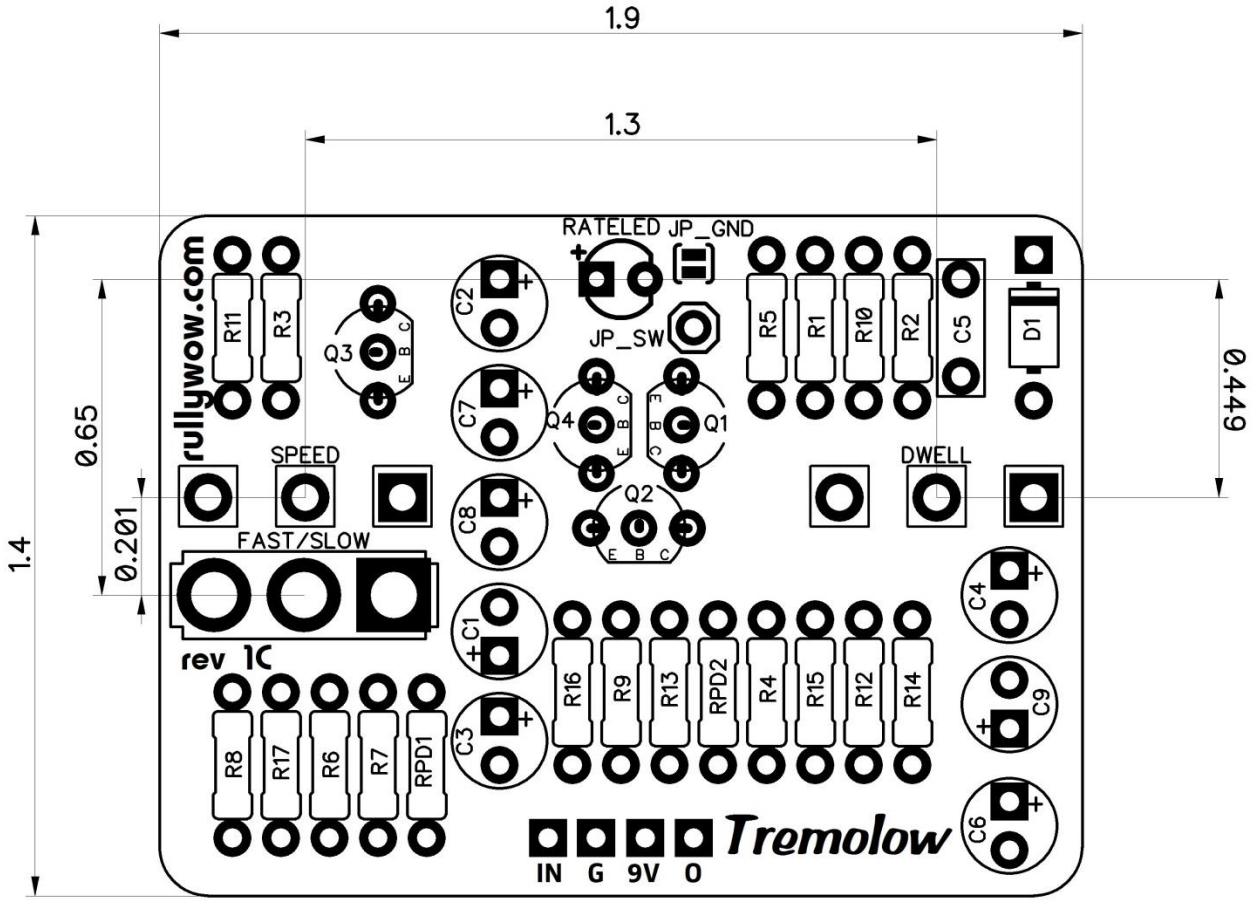


Drill Guide (1590B) :

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



PCB Dimensions = 1.9"w x 1.4"h



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!)