

Description:

Based on the TC Electronic “Integrated Preamp”, the “ChuggaPre” is a versatile preamp. The onboard charge pump, it operates at a higher internal voltage for better headroom.

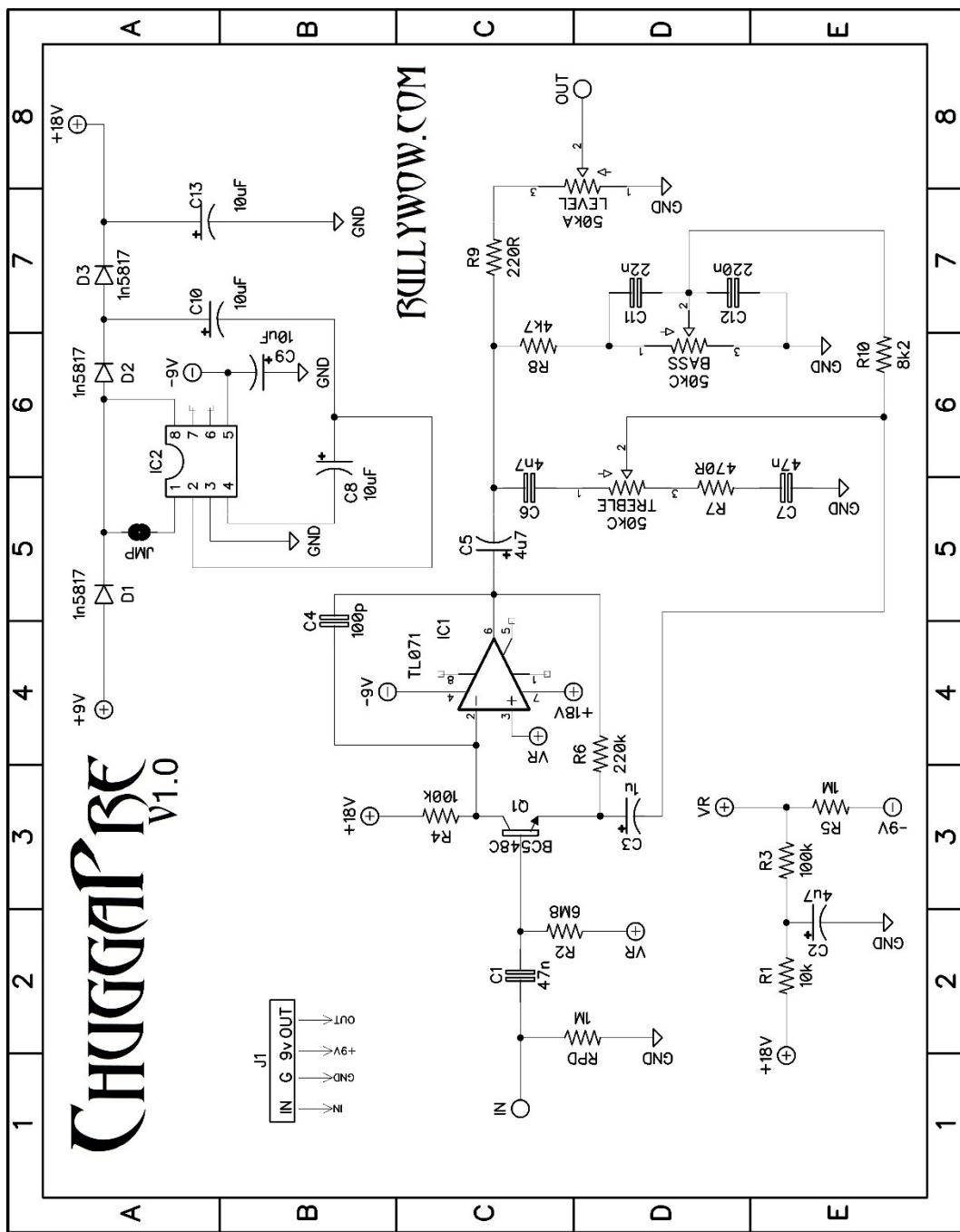
ChuggaPre v0.666						
<i>Caps</i>			<i>Diodes</i>		<i>Resistors</i>	
C1	47n	film	D1, D2, D3	1n5817	R1	10k
C2	4u7	electro	<i>Pots</i>		R2	6M8
C3	1u	electro	BASS	50kC	R3	100k
C4	100p	ceramic	LEVEL	50kA	R4	100k
C5	4u7	electro	TREBLE	50kC	R5	1M
C6	4n7	film	<i>IC</i>		R6	220k
C7	47n	film	IC1	TL071	R7	470R
C8	10uF	electro	IC1	TC1044	R8	4k7
C9	10uF	electro	<i>Transistor</i>		R9	220R
C10	10uF	electro	Q1	BC548C	R10	8k2
C11	22n	film			RPD	1M
C12	220n	film				
C13	10uF	electro				

Project Specific Tips:

- There is a solder jumper under IC 2 (the charge pump). This connects pins 1 and 8 of the charge pump which most pumps require. If you are using a LT1054 you can leave this open. For most common charge pumps such as the TC1044SCPA, ICL7660, and more you will need to close this by putting a drop of solder between the jumper
- This effect uses a charge pump which increases the voltage internally to almost 18v. Therefore **BE SURE TO USE CAPACITORS RATED AT LEAST 25v** for safety.
- The charge pump does consume more mA than a regular pedal, so it is not recommended to power this effect from a 9V battery as it won't last very long.

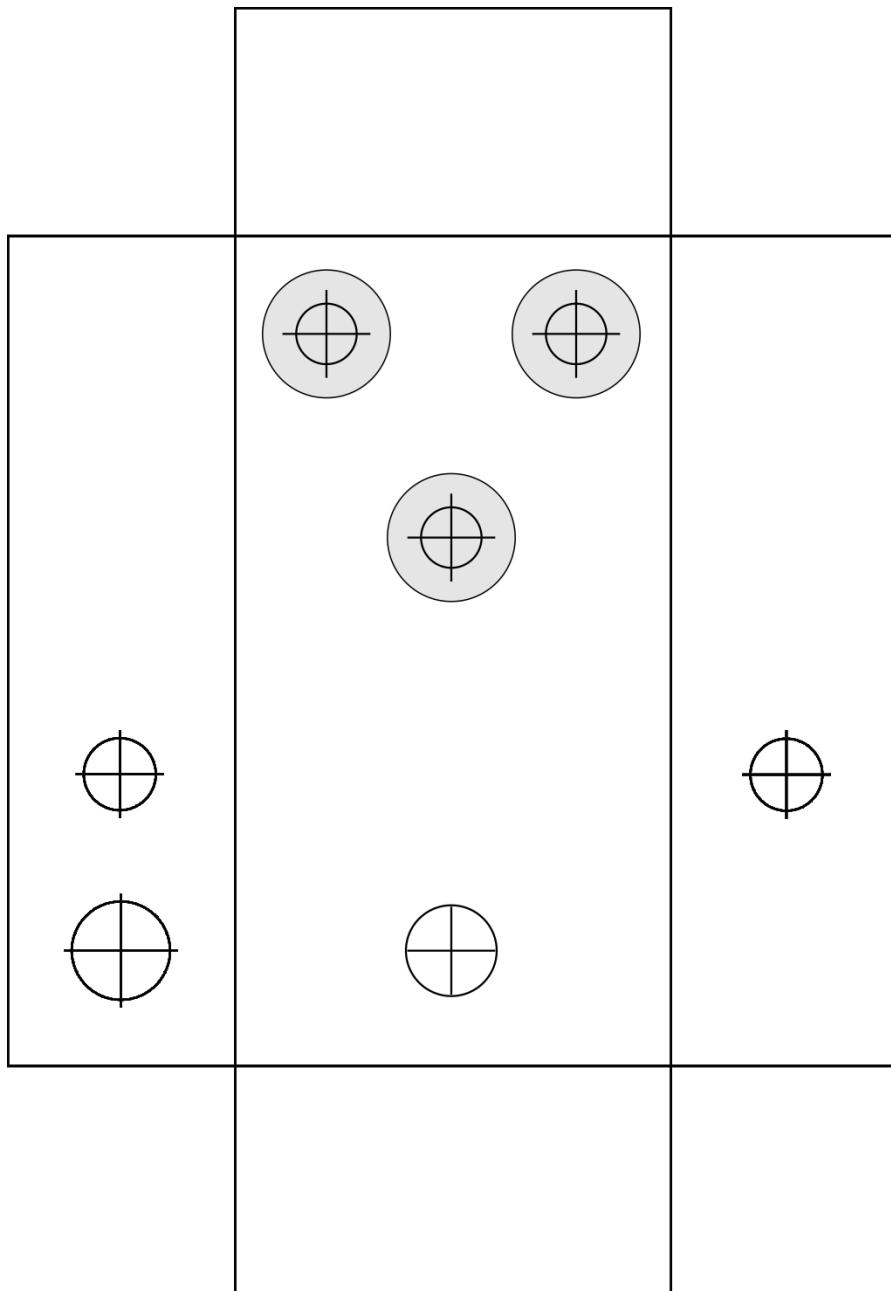
Build Tips:

- 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.
- 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!)
- The IC is a TL071 type. You may want to socket this and swap out for different types of single opamps.



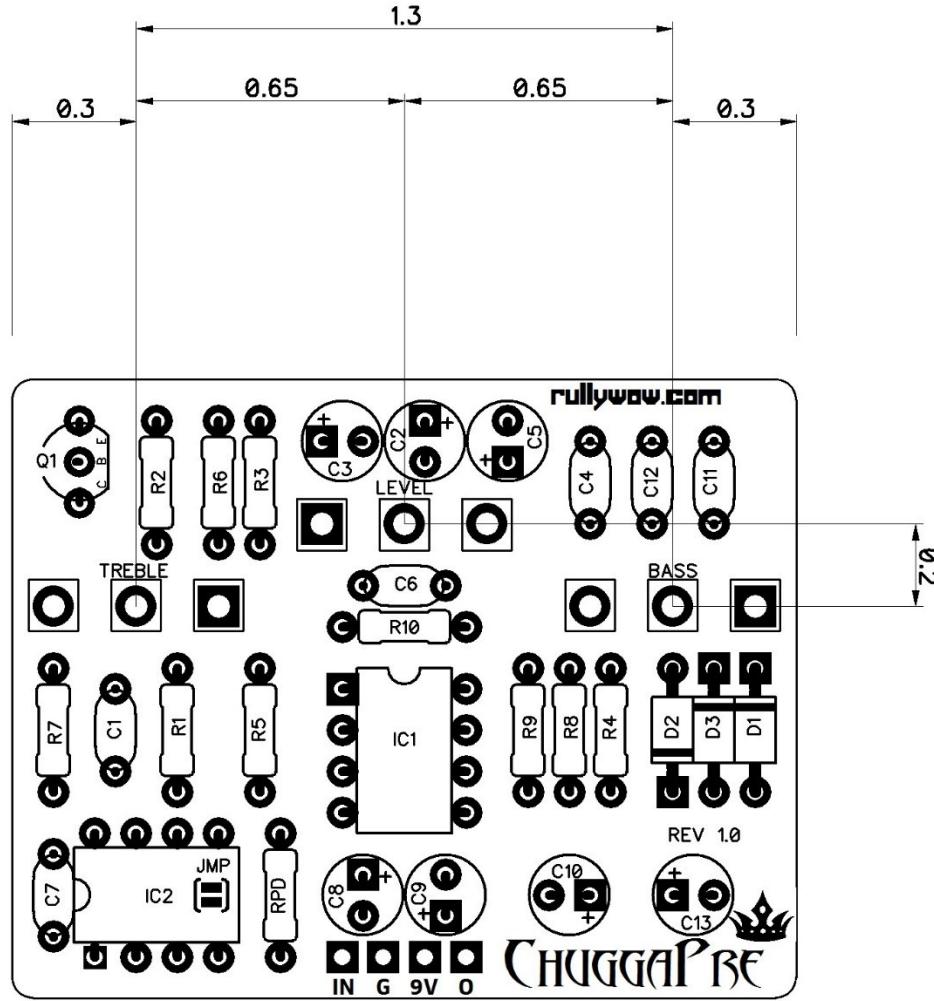
Drill Guide (1590B) :

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 1.5" h

(Dimensions in inches)



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!)