

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

Caps			Diodes		Resistors	
C1	47n	film	D1, D2, D3	1n5817	R1	10k
C2	4u7	electro	Pots		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	IC		R6	220k
C7	47n	film			R7	470R
C8	10uF	electro	IC1	TL071	R8	4k7
C9	10uF	electro	IC1	TC1044	R9	220R
C10	10uF	electro	Transistor		R10	8k2
C11	22n	film	Q1	BC548C	RPD	1M
C12	220n	film				
C13	10uF	electro				

Project Specific Tips:

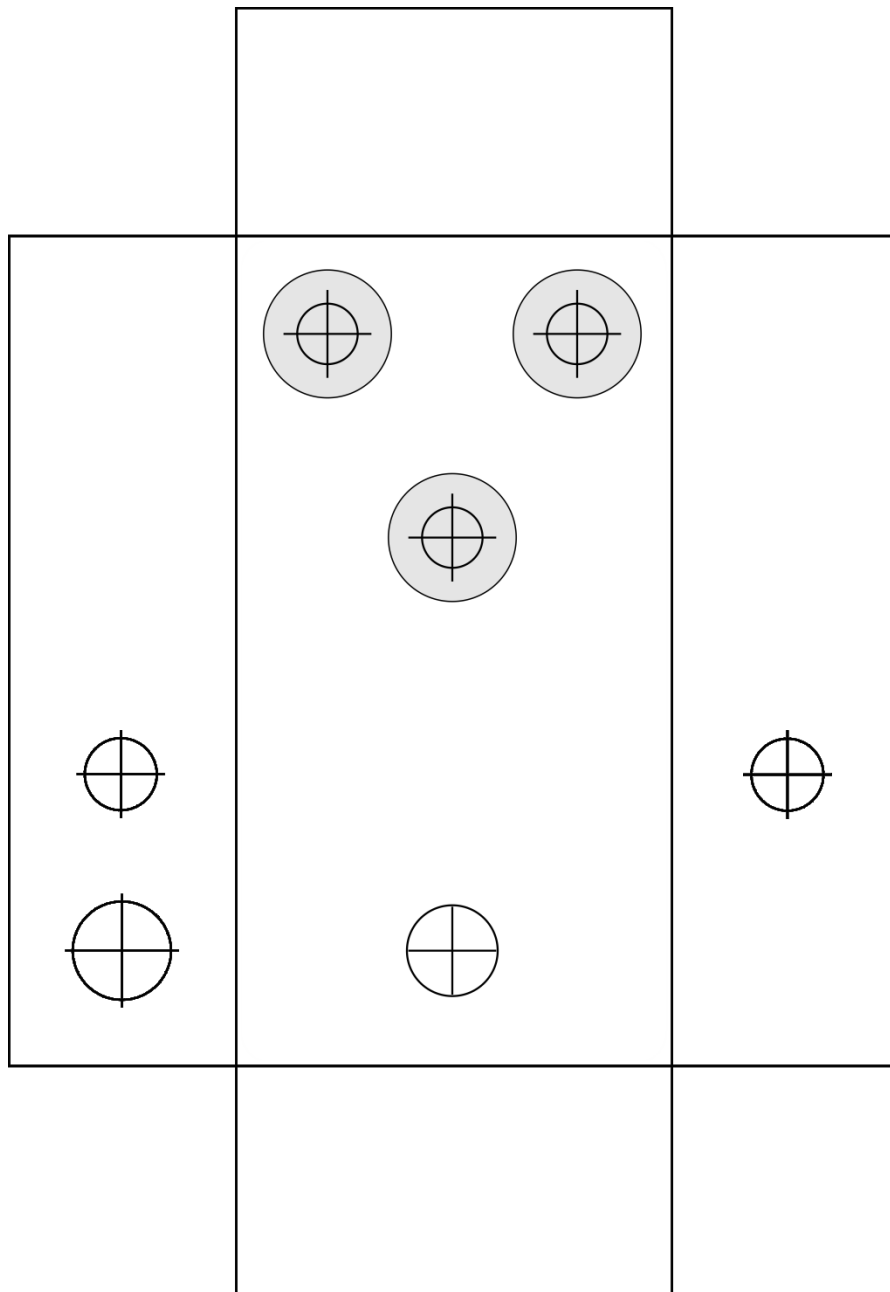
- There is a solder jumper under IC 2 (the charge pump). This connects pins 1 and 8 of the charge pump which most pumps require. If you are using a LT1054 you can leave this open. For most common charge pumps such as the TC1044SCPA, ICL7660, and more you will need to close this by putting a drop of solder 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.

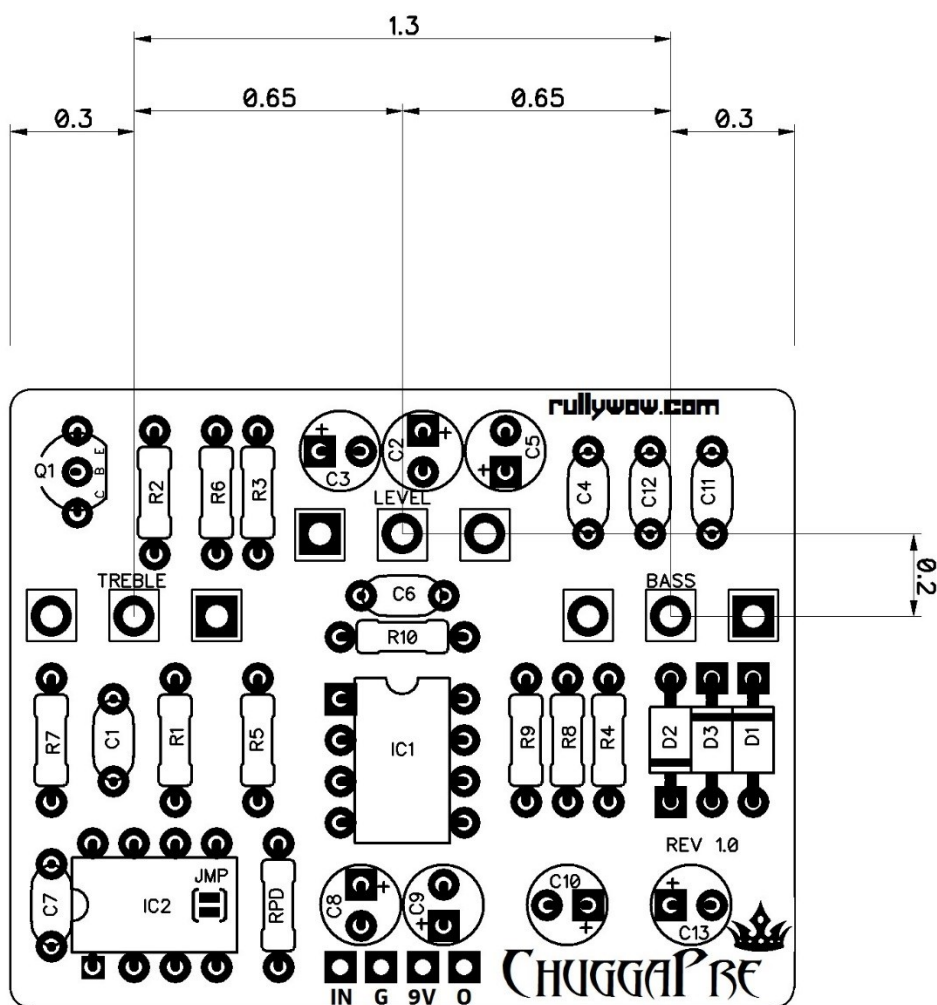
Drill Guide (1590B) :

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!)