



Berserker Fuzz

A Factory of Fuzz

Bill of materials

Resistors		Capacitors	
R1	220k	C1	10uf
R2	10k	C2	10nf (103)
R3	47k	C3	100nf
R4	470R	C4	10uf
R5	5.1k	C5	10uf
R6	220k		
Diode		Potentiometer	
D1	1n4001	Tone	100KB (Linear)
		Stability	5KB (Linear)
		Comp	10KB (Linear)
Transistor		Drive	10KB (Linear)
Q1	2n3904	Gain	10KB (Linear)
Q2	PNP Germanium Transistor	Volume	5KB (Linear)
Q3	PNP Germanium Transistor		

A highly adjustable fuzz circuit based on the fuzz face. This effect is capable of a huge range of fuzz sounds, from splatty loose misbiased fuzz to tight, compressed, fuzz bordering a distortion sound and everything in between. If you are new to fuzz, you will hear a sample of everything fuzz has to offer in this circuit!

1590b

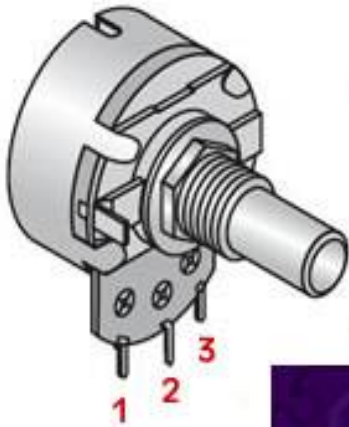
This board spacing will fit a 1590b enclosure. You can mount 9mm pots directly to the board. However it will not fit a battery. Use a 1590bb if you are looking at incorporating a battery.

Tone Control

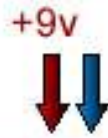
As if the factory o' fuzz wasn't versatile enough, the input cap tone mod vastly increases its versatility. Experiment with C# and C# to change the tone range of the tone control.

Transistor Gains

The berserker fuzz is not too picky about transistor hfe's and leakages, I've tried many and they will sound very good with little variance. Any Fuzz Face set (or close enough) will suit the circuit.



Potentiometers - Note the numbers 1,2,3, on the layout. Be sure to connect the right pins on the pot to the right pads on the board



Use one or both ground pads.



Input



Use one or both ground pads.

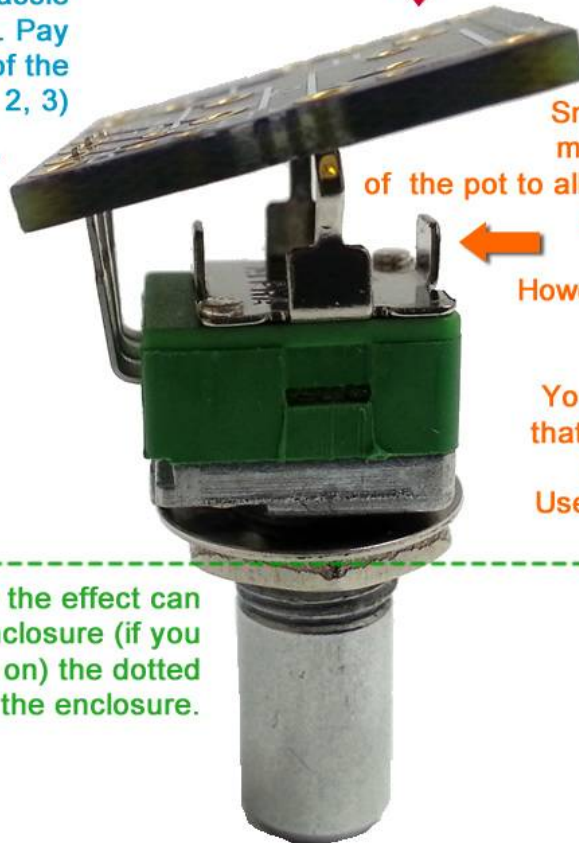
Output



The 9mm Alpha potentiometers that are included in our kits can be soldered directly to the PCB saving the hassle of connecting them with wires. Pay close attention to the pinout of the pot (1, 2, 3)



This is the component side of the pcb



Snip off or bend these four mounting lugs on the back of the pot to allow the pcb to be lowered closer to the back of the pot for soldering. However DO NOT remove the entire plate from the back of the pot. You will also need to ensure that the back plate of the pot does not touch anything. Use some double side tap to insulate it from the pcb

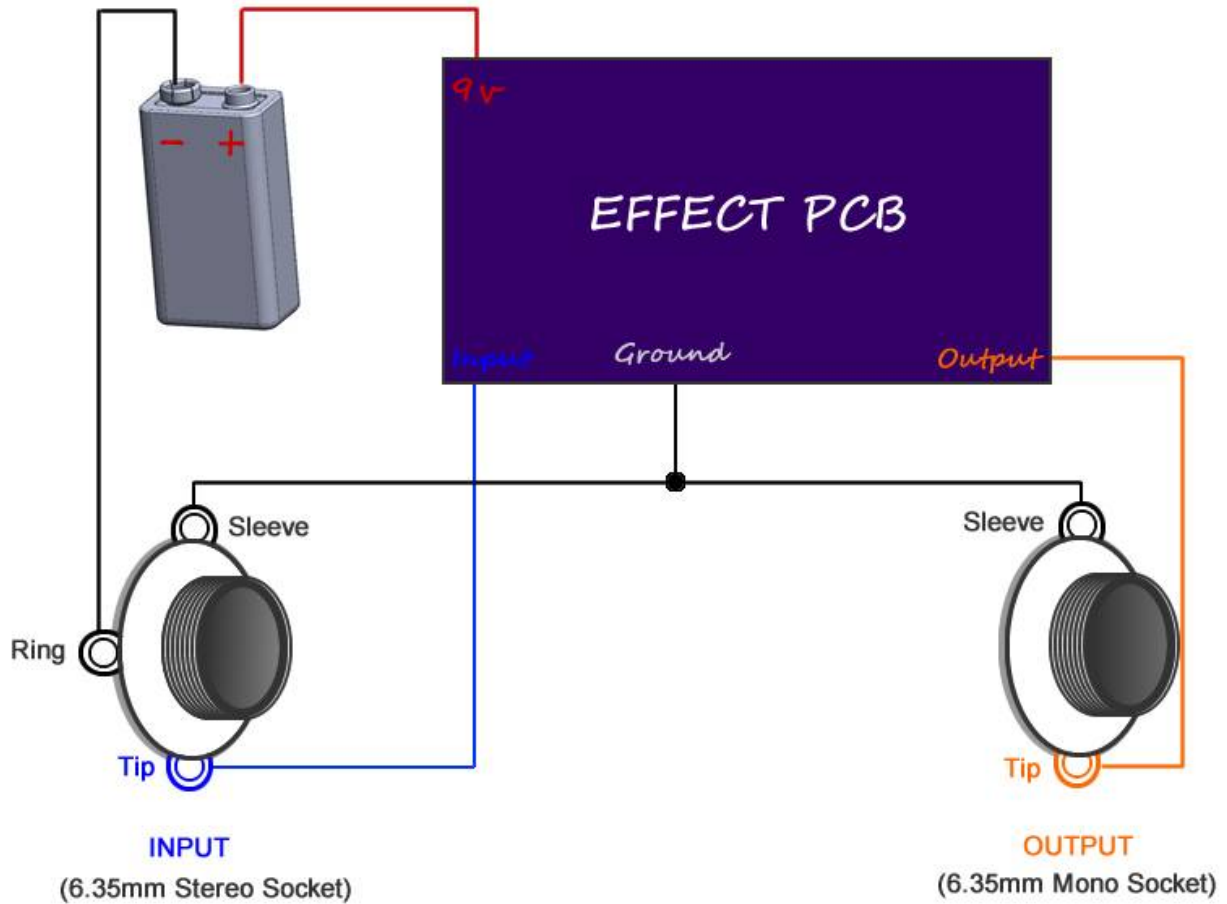


To help you visualise how the effect can be installed inside an enclosure (if you decided to do so later on) the dotted line above indicates the enclosure.



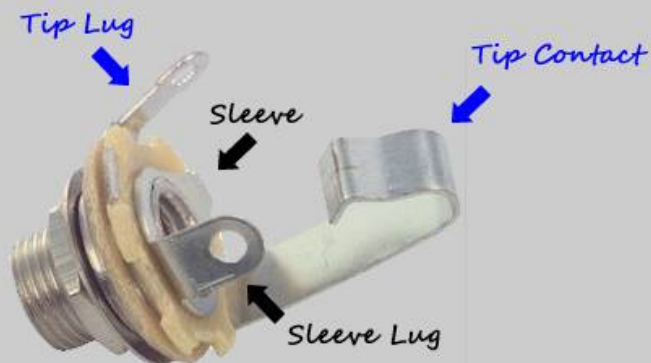
Testing Your Effect

Using aligator clips or soldering directly, wire your effect as in the following...



Input and Output Sockets

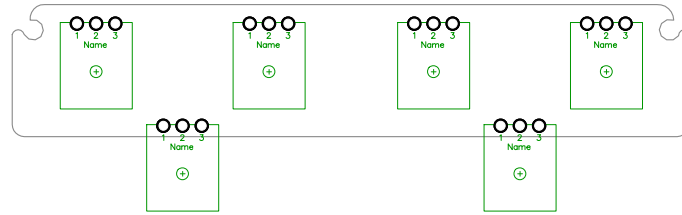
Pay close attention to the lugs of your sockets. Look at them side on so that you can distinguish the sockets individual layers. For instance the tip lug is connected to tip contact. The stereo jack looks the same as the socket below except it has an extra lug and contact for "Ring".

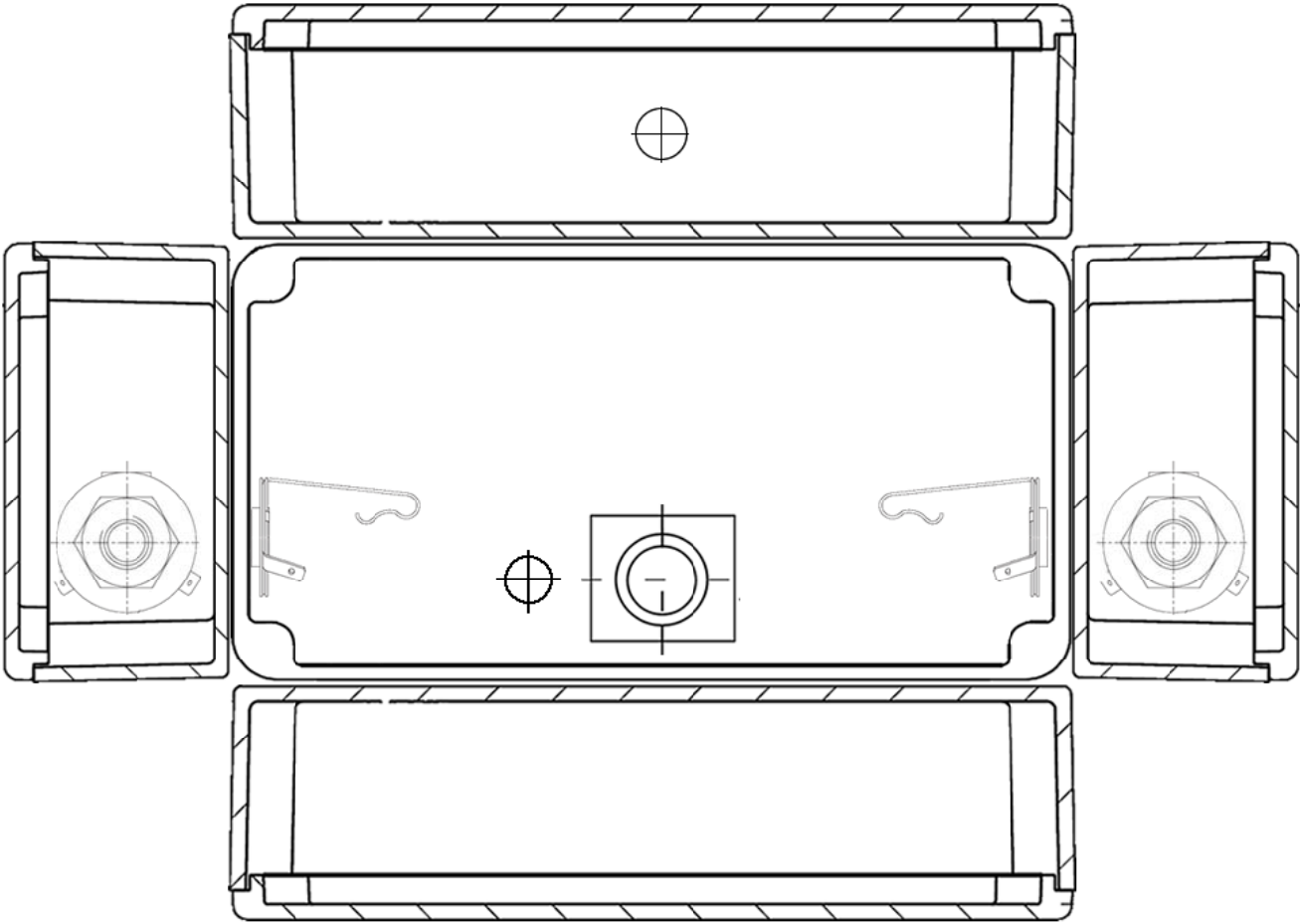


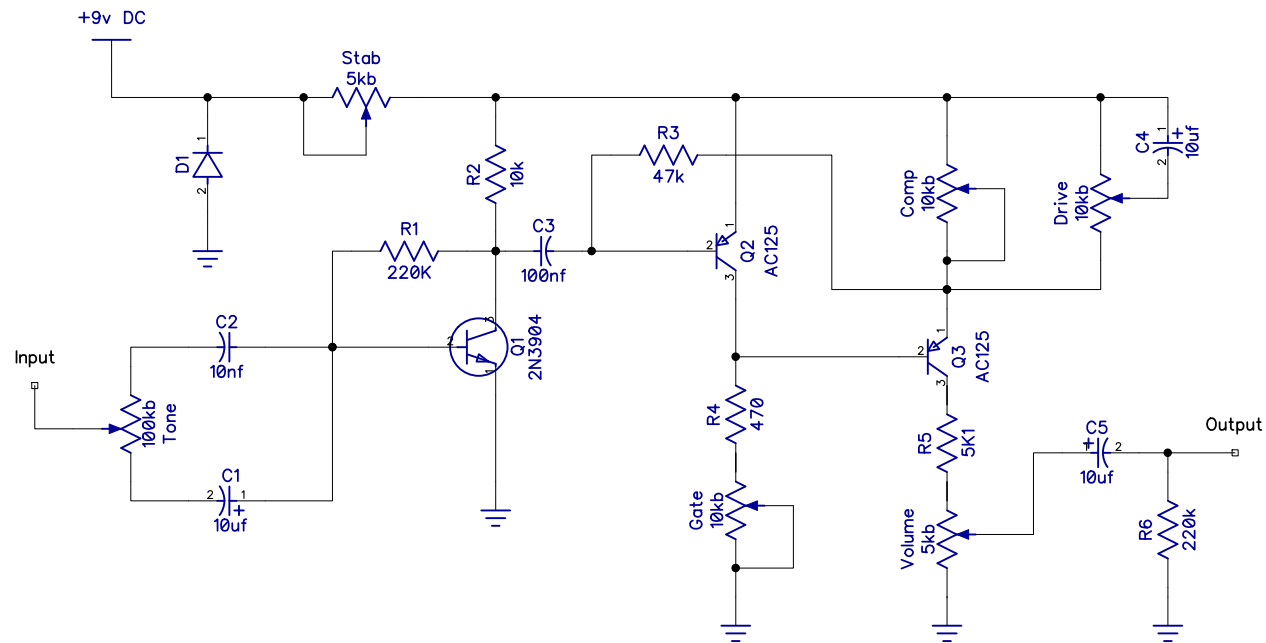
Boxing up your effect

Watch my offboard wiring tutorial for information on wiring this effect inside an enclosure with LED, stomp switch, etc

http://www.youtube.com/watch?v=z6fpwU8RY_0







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