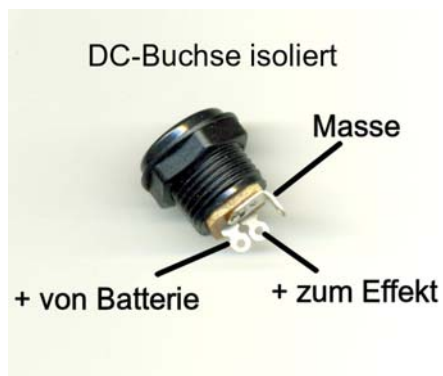
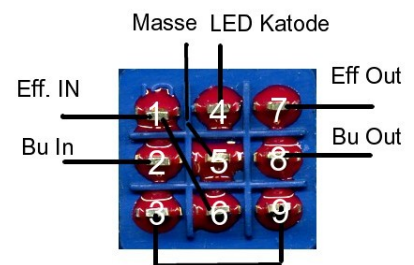
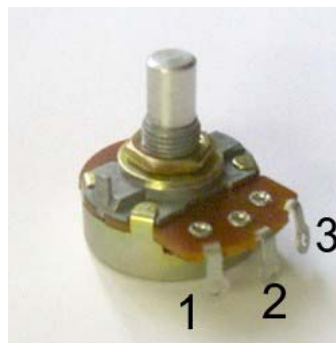
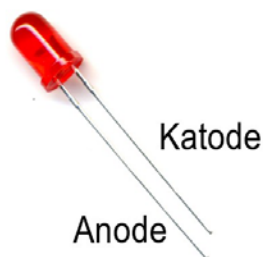


Manual to build a Unicord SuperFuzz Clone

Page 2.....	Basics
Page 3.....	Bill of material
Page 4...5.....	Soldering the pcb
Page 6.....	Offboard wiring
Page 7.....	Notes
Page 8...10.....	Wiring, Drill template, foil template 1590B
Page 11.....	Schematic

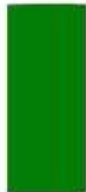
Some connections of importend components

Leuchtdiode (LED)



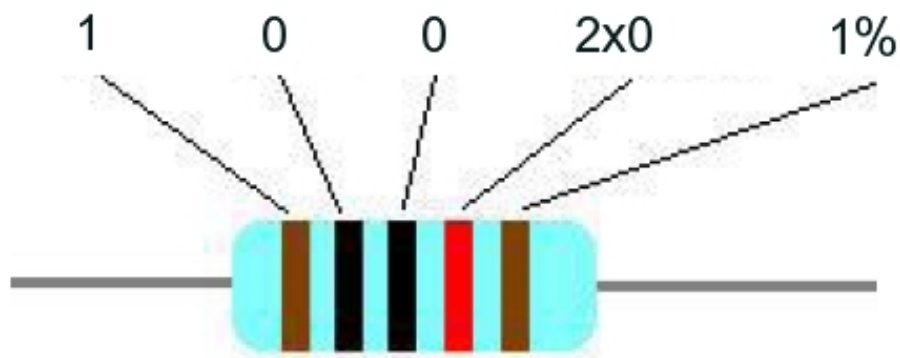
Color table for resistors MF207 FTE52 1% and a example

Resistor color code

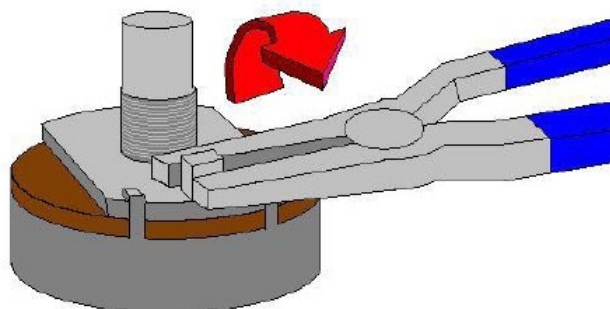
									
0	1	2	3	4	5	6	7	8	9

Example: Resistor MF207 10K 1%

Value: 10000 Ohm = 10KOhm



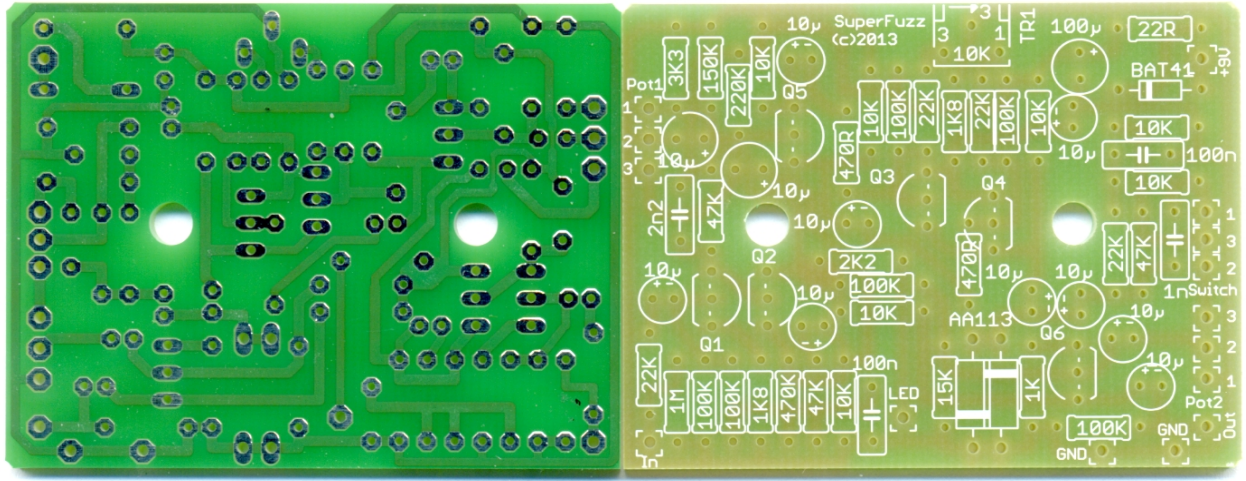
Breaking nose at the potentiometer
Nase am Poti mit einer Flachzange abbrechen



Bill of material

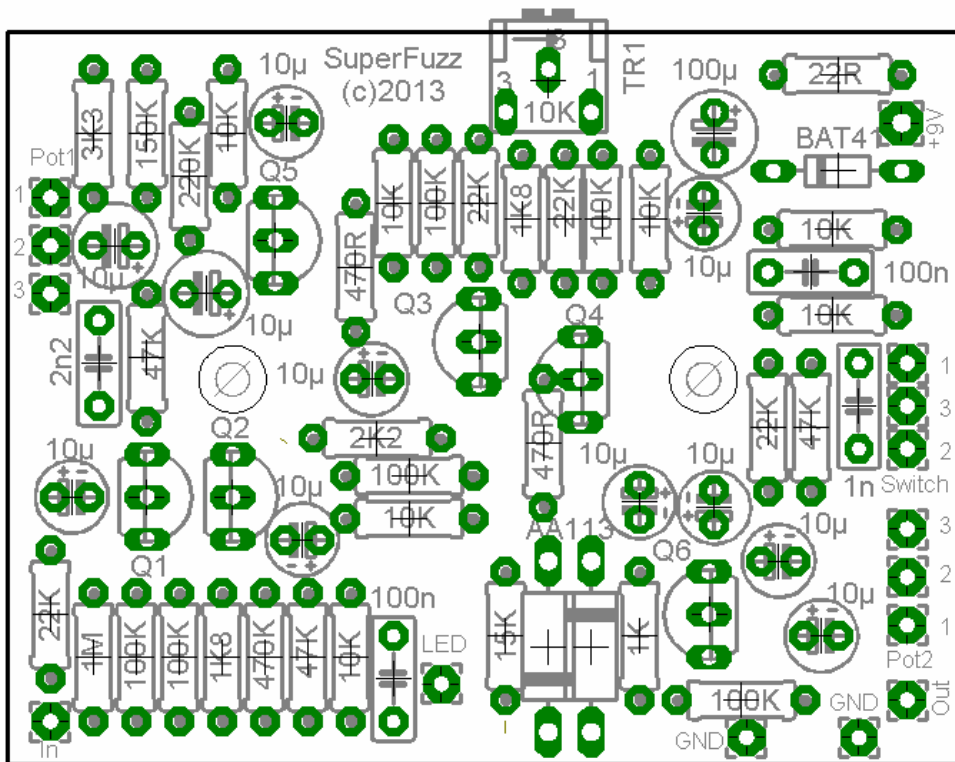
Quantity	Description	Mechanical
1	PCB SuperFuzz	
1	Audio Jack Mono	
1	Audio Jack Stereo	
1	3PDT Switch	
2	Pot 50K-B (linear)	
1	DC-jack isolated 5,5/2,1mm	
1	Battery connector	
1	Some colored wire	
1	SPDT Toggle MS244LC	
1	LED bezel for 3mm LED	
2	Toothed lock washer 10.5 mm	
2	Toothed lock washer 7.4 mm	
2	Cable fastener	
2	Self adhesive holder 4.8 mm	
Dioden/ Transistors		
1	Diode BAT 41 (Kathode line)	
2	Diode AA113 (Kathode line)	
6	NPN Transistor BC548A or BC549A	
1	LED red 3mm short leg → kathode	
Resistors		
1	Resistor 47R (yellow/violet/black/gold/brown)	
2	Resistor 470R (yellow/violet/black/black/brown)	
1	Resistor 1K (brown/black/black/red/brown)	
2	Resistor 1K8 (black/grey/black/red/brown)	
1	Resistor 2K2 (red/red/black/red/brown)	
1	Resistor 3K3 (orange/orange/black/red/brown)	
7	Resistor 10K (brown/black/black/red/brown)	
1	Resistor 15K (brown/green/black/red/brown)	
4	Resistor 22K (red/red/black/red/brown)	
3	Resistor 47K (yellow/violet/black/red/brown)	
6	Resistor 100K (brown/black/black/orange/brown)	
1	Resistor 150K (brown/green/black/orange/brown)	
1	Resistor 220K (red/red/black/orange/brown)	
1	Resistor 470K (yellow/violet/black/orange/brown)	
1	Resistor 1M (brown/black/black/yellow/brown)	
1	Cermet Trimmer 10K (103)	
Capacitors		
1	capacitor 1nF MKT	
1	capacitor 2,2nF MKT	
2	capacitor 100nF MKT	
11	Electrolytic cap RASM 10µF/25 or 50V	
1	Elektrolytic cap RASM 100µF/16	

Leiterplatte



As the first the circuit board is soldered with the help of the layout diagramme illustrated below. Moreover one should start to equip with the lowest components, i.e. as the first the resistors, the diodes, the capacitors and at last the transistors.

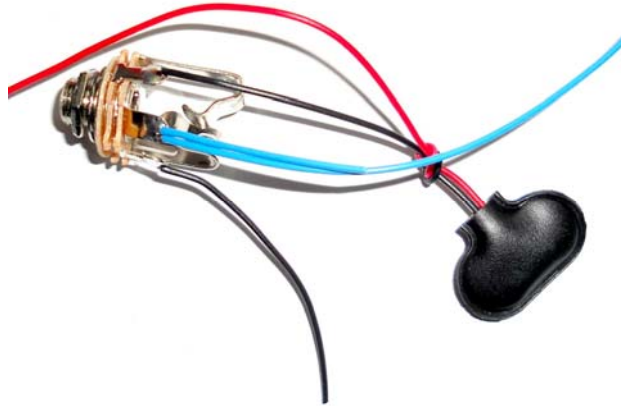
As the last one solders from approx. 6 to 8 cm long Litzen in the holes of the Potis. (Easier from the bottom side)



Q1-Q6= BC548A

When the circuit board is finished, it is fitted to the assembly of the mechanical components in the enclosure and the external wiring. Given that enclosure is already prepared with all the holes. The LED is used so that the short leg (cathode) shows to the switch. The 3PDT switch place in the enclosure so that the groove is either up or down in the thread of the switch.

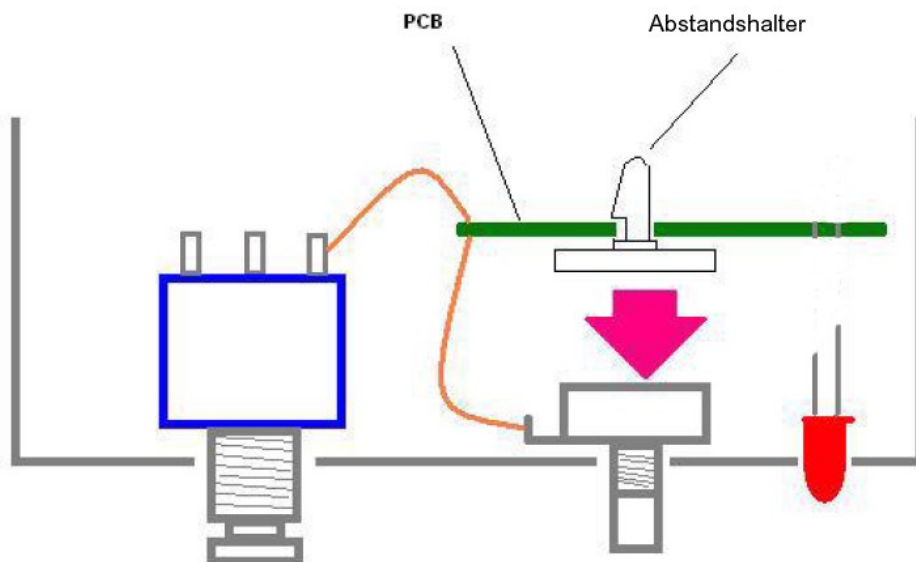
The input jack should be wired before that. (2 wires to ground (sleeve), ring → black wire from the battery clip and tip of a wire, which then goes to the switch.



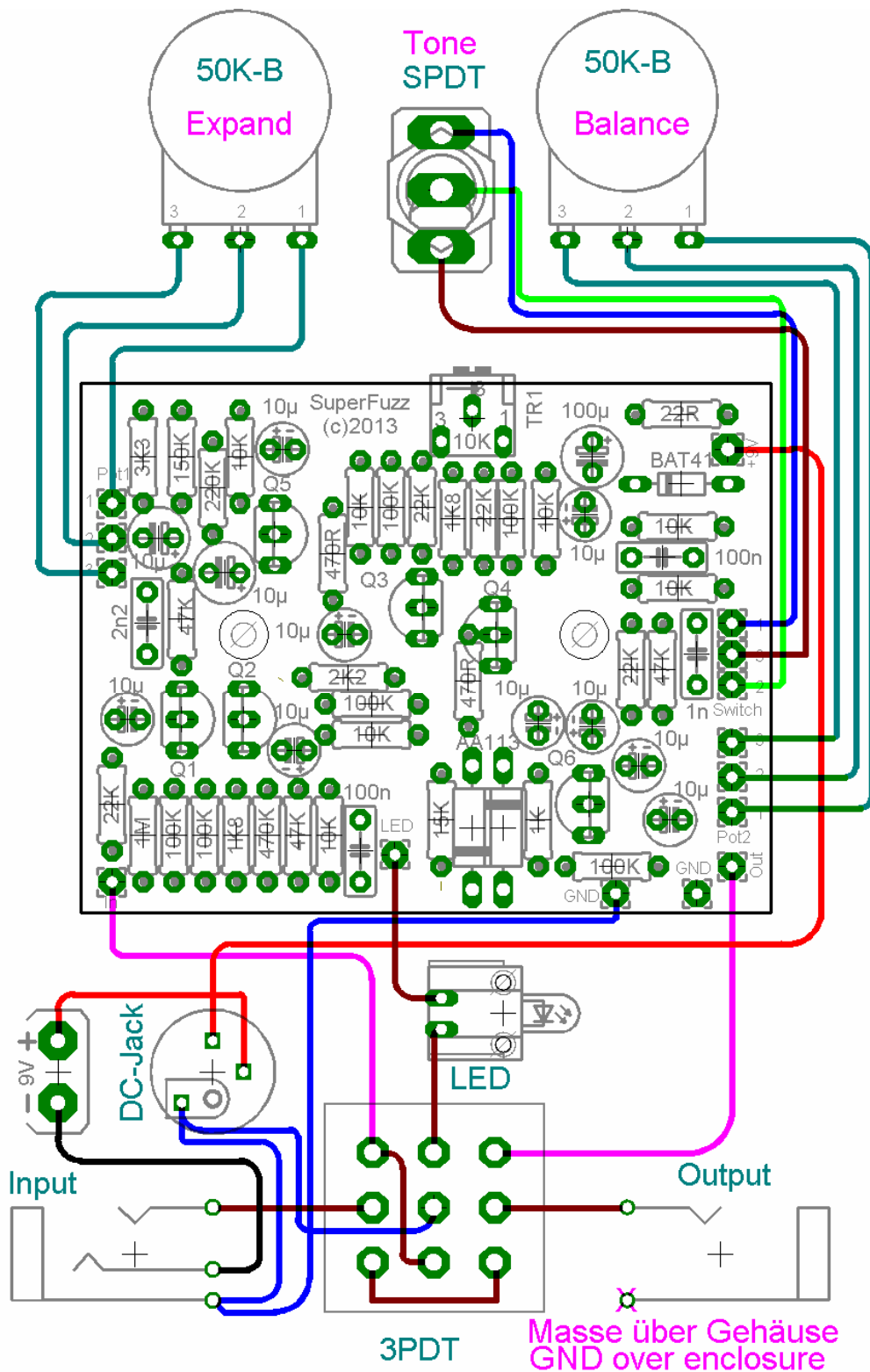
The wires from the battery clip you can cut the black and can then also take for Tip.

The connection switch → output jack provides you the easiest forth with a piece of wire cut from a components.

This is all done, the prepared PCB with the potentiometers and the SPST switches are connected, and the external wires from the switch and the power supply to the circuit board only needs to be performed. This solder is conveniently right from the bottom of the corresponding points. The attachment of the circuit board in the enclosure by means of the supplied self-adhesive spacer directly on the two two potentiometer..



Wiring - diagram



Notes to the mechanical structure:

The small tabs at the potentiometers are easily broken off with pliers (see illustration on page 2). The 10.5mm steel washers are inferior to the jacks. The 7.4 mm for potentiometer As knobs which you should use with a max. diameter of 24mm, when a pre-drilled 1590B enclosure size is used. The holes in the jacks sit 14mm from the bottom of the case, the DC jack 12.5mm from the bottom.

The 10K trimmer should be to balance the symmetry, but no differences were apparent. Neither left nor to the right stop.

For self-drill:

Potentiometer: 7mm

Jacks: 9.3mm

3PDT switch: 12mm

DC jack: 12mm

LED bezel and SPDT switch: 6mm

If clean up and properly wired, the effects device should work immediately. For any questions we are always available.

