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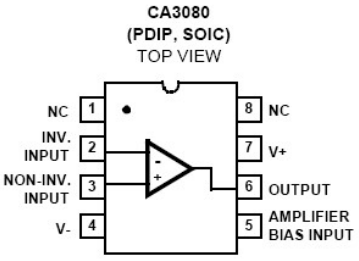
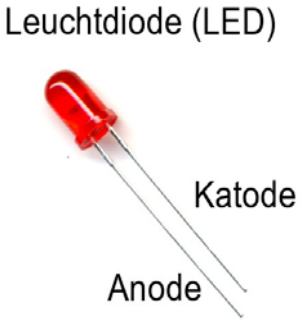
Manual Kit Dynacomp ®

Connection of some components

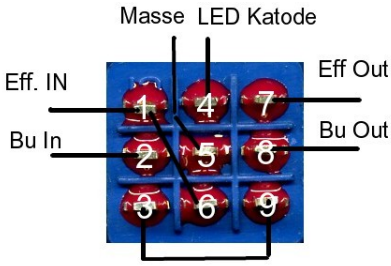


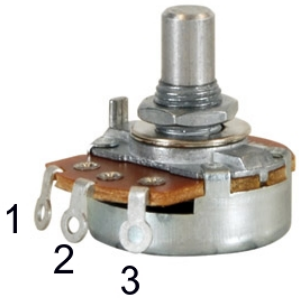
BC549

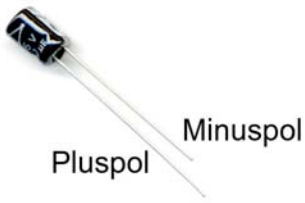


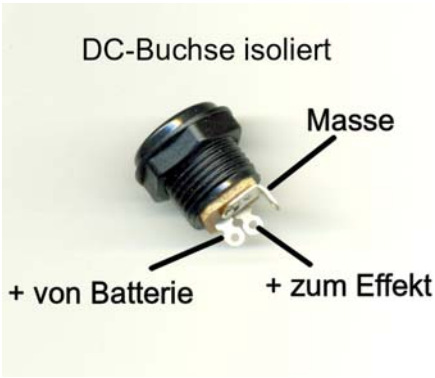
Standard Potentiometer

Elektrolytkondensator

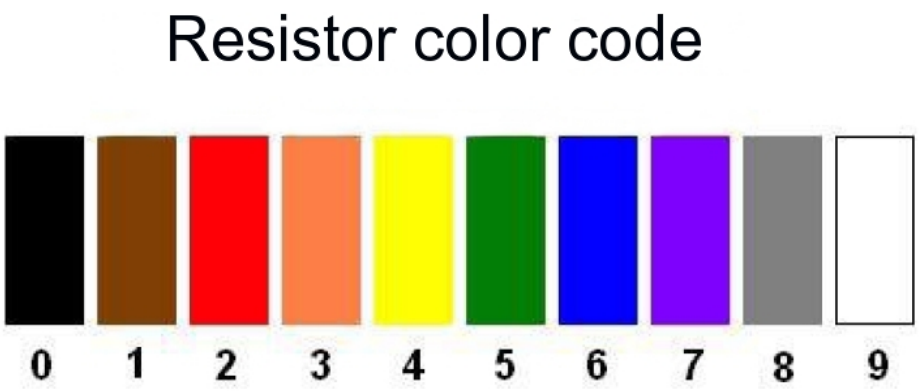


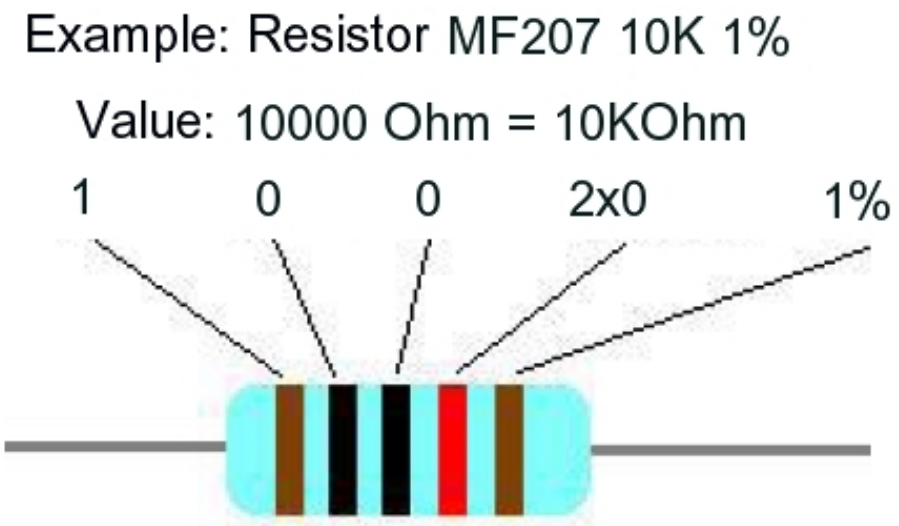




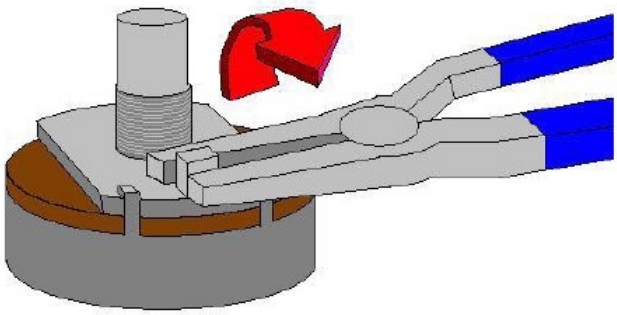


Color table for resistors MF207 FTE52 1% and a example





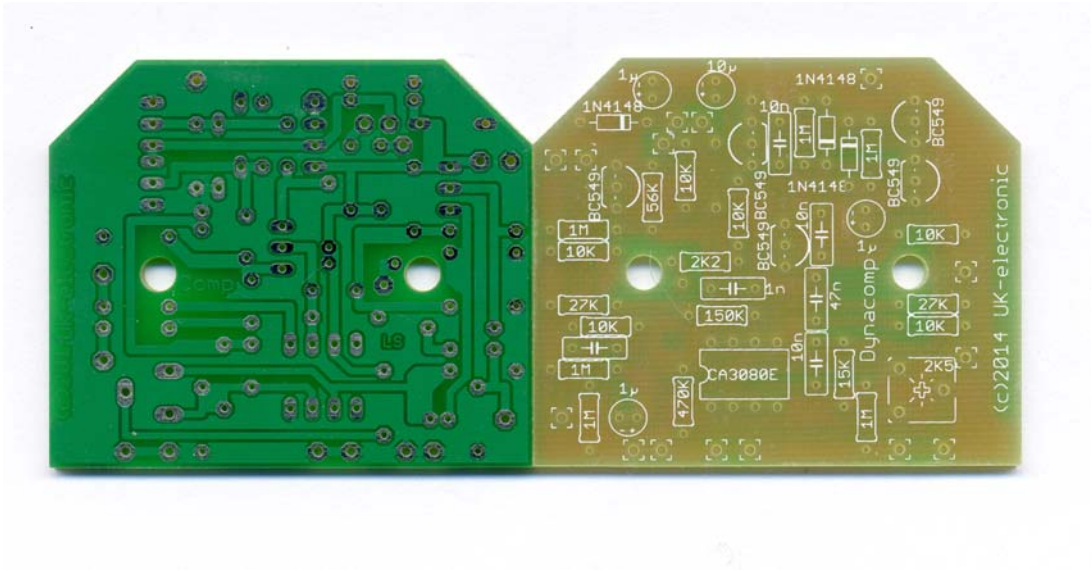
Breaking nose at the potentiometer
Nase am Poti mit einer Flachzange abbrechen



Bill of material

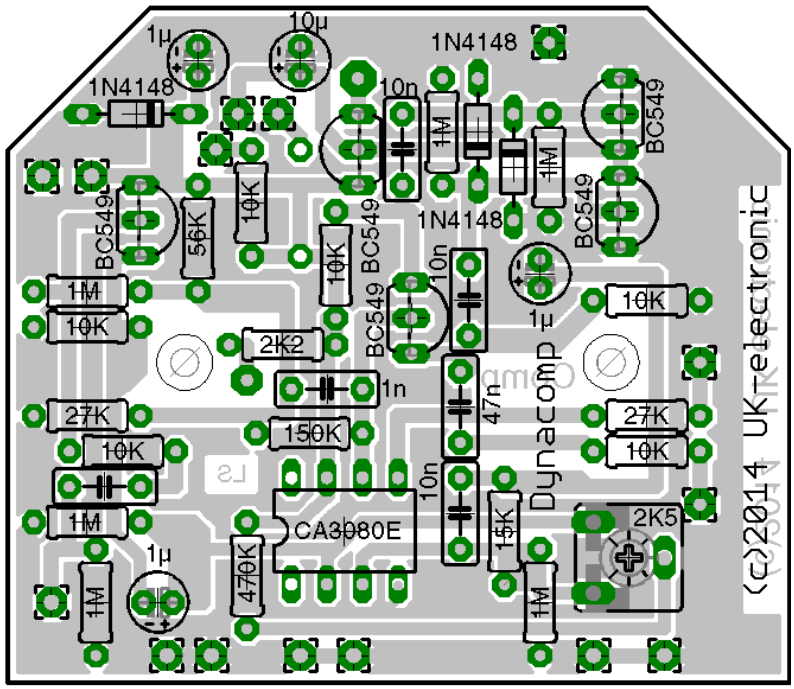
Quantity	Description
1	Mono jack 6,3mm
1	Stereo jack 6,3mm
1	3PDT Switch
1	LED bezel crome 3mm LED
1	LED red 3mm Low Current
1	Pot 500K-B (linear)
1	Pot 50K-A (logarithmisch)
1	Pot 150K-C (rev. Log.)
2	Self adehesive spacer LP (4,8mm)
1	DC-jack
5	Transistor BC549C
3	Diode 1N4148 (Line cathode)
1	IC CA3080E (OTA)
1	IC Socket 8-pole
1	Resistor 2K2 (red/red/black/brown/brown)
6	Resistor 10K (brown/black/black/red/brown)
1	Resistor 15K (brown/green/black/red/brown)
2	Resistor 27K (red/violet/black/red/brown)
1	Resistor 56K (green/blue/black/red/brown)
1	Resistor 150K (brown/green/black/orange/brown)
1	Resistor 470K (yellow/violet/black/orange/brown)
6	Resistor 1M (brown/black/black/yellow/brown)
1	Trim pot CA6V 2K5
1	Capacitor MKT 1nF (0.001µF - 102)
4	Capacitor MKT 10nF (0.01µF - 103)
1	Capacitor MKT 47nF (0.047µF - 473)
3	Electrolytic cap RASM 1µF/50V
1	Elctrolytic cap RASM 10µF/25V
1	Battery connector
1	Some colored wire
1	PCB „ Dynacomp“
2	Cable fastener

Top and Bottom of the PCB

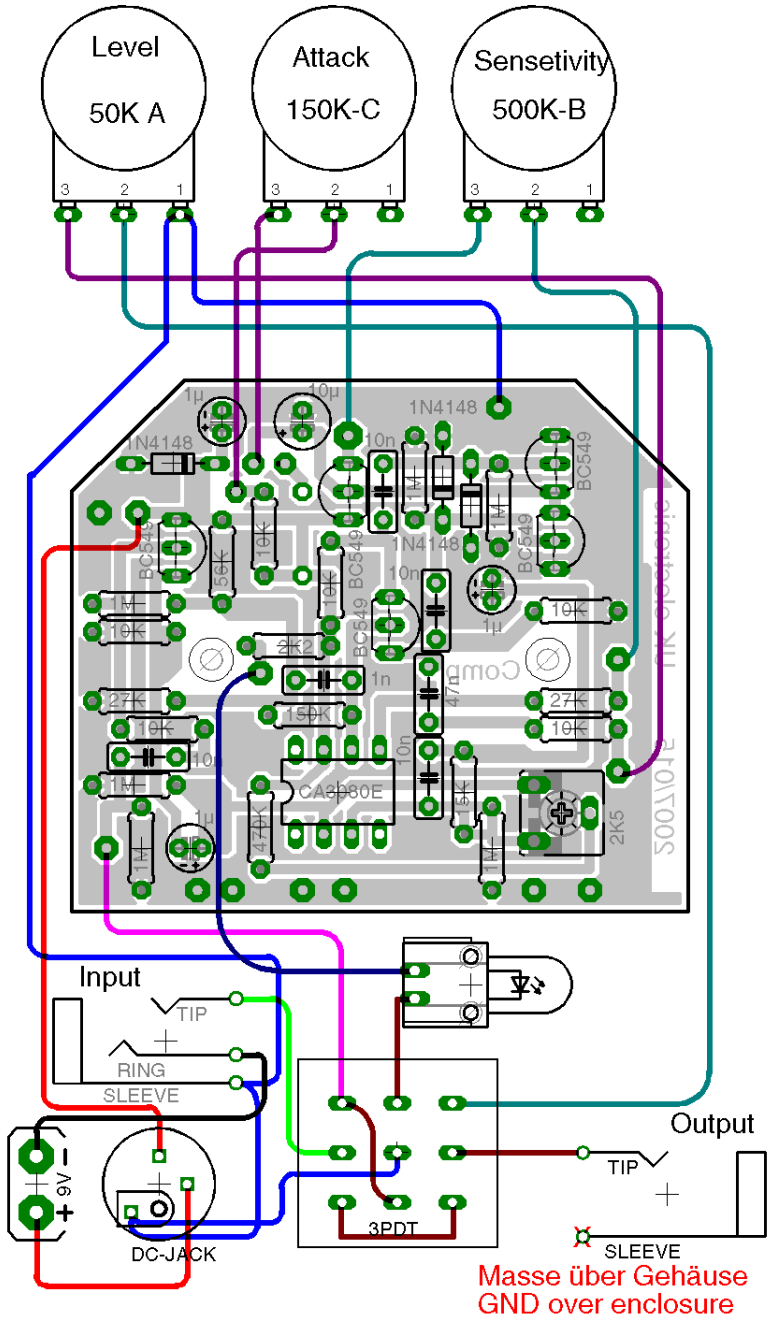


Prepairing the PCB

First, the circuit board is equipped with the PCB layout shown below or the printed circuit board. For this purpose one should start with the lowest components, that is as first the resistors, the diodes, the capacitors and finally the transistors and the socket for the IC. Clean working, in particular the design of the soldering joints, should be a top priority in order to rule out placement and soldering errors from the outset and avoid a troublesome search for errors later on.

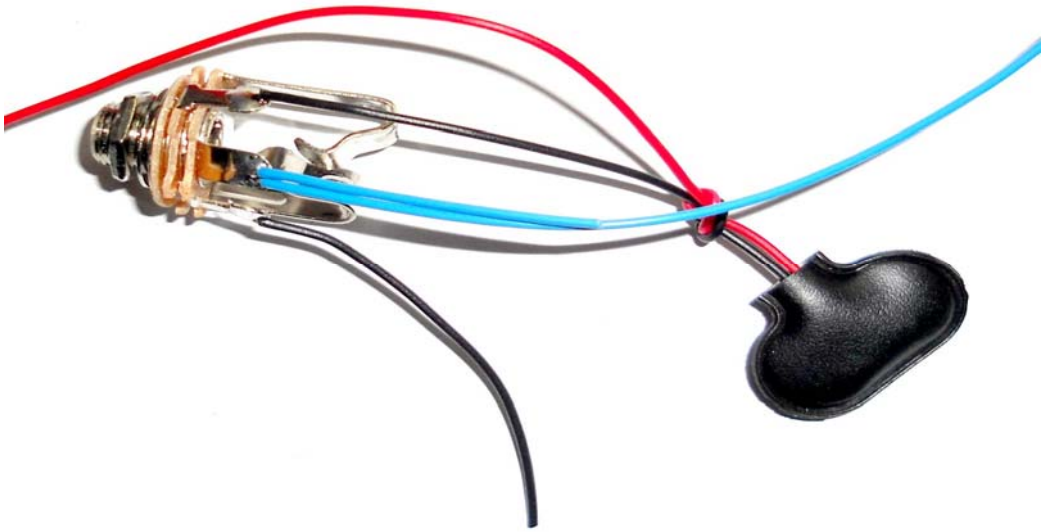


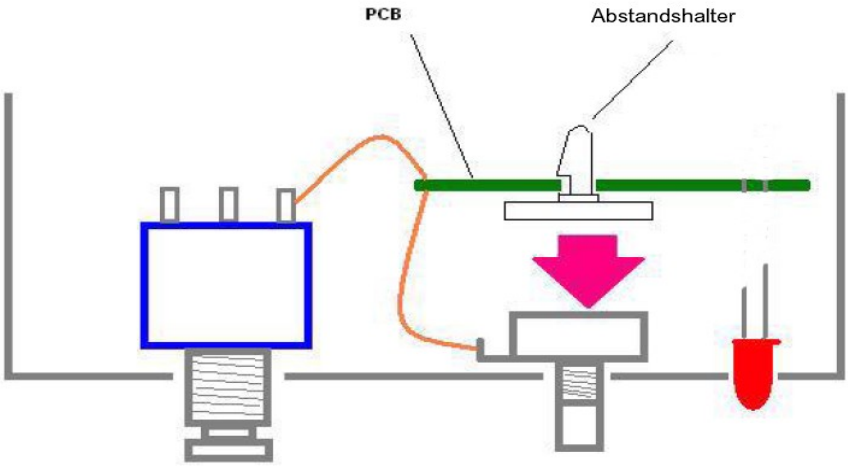
After the circuit board is fully soldered, the wiring is carried out according to the wiring diagram shown below. Before this, however, the pre-drilled enclosure should already be equipped with all passive components (switches, jacks, potentiometers and the LED). The cathode of the LED (short leg) is soldered directly to the 3PDT shoulder lug 4. The anode is shortened with a wire and later is connected to the printed circuit board.
The most favorable variant of the wiring is to make all connections from the soldering side of the circuit board. To do this, solder approximately 5 to 6 cm long pieces of wire into the corresponding connections and then wire them to the corresponding components (potentiometer, switches, etc.)



The mounting of the circuit board itself in the housing is carried out directly on the back of the potentiometer by means of the supplied self-adhesive spacers.

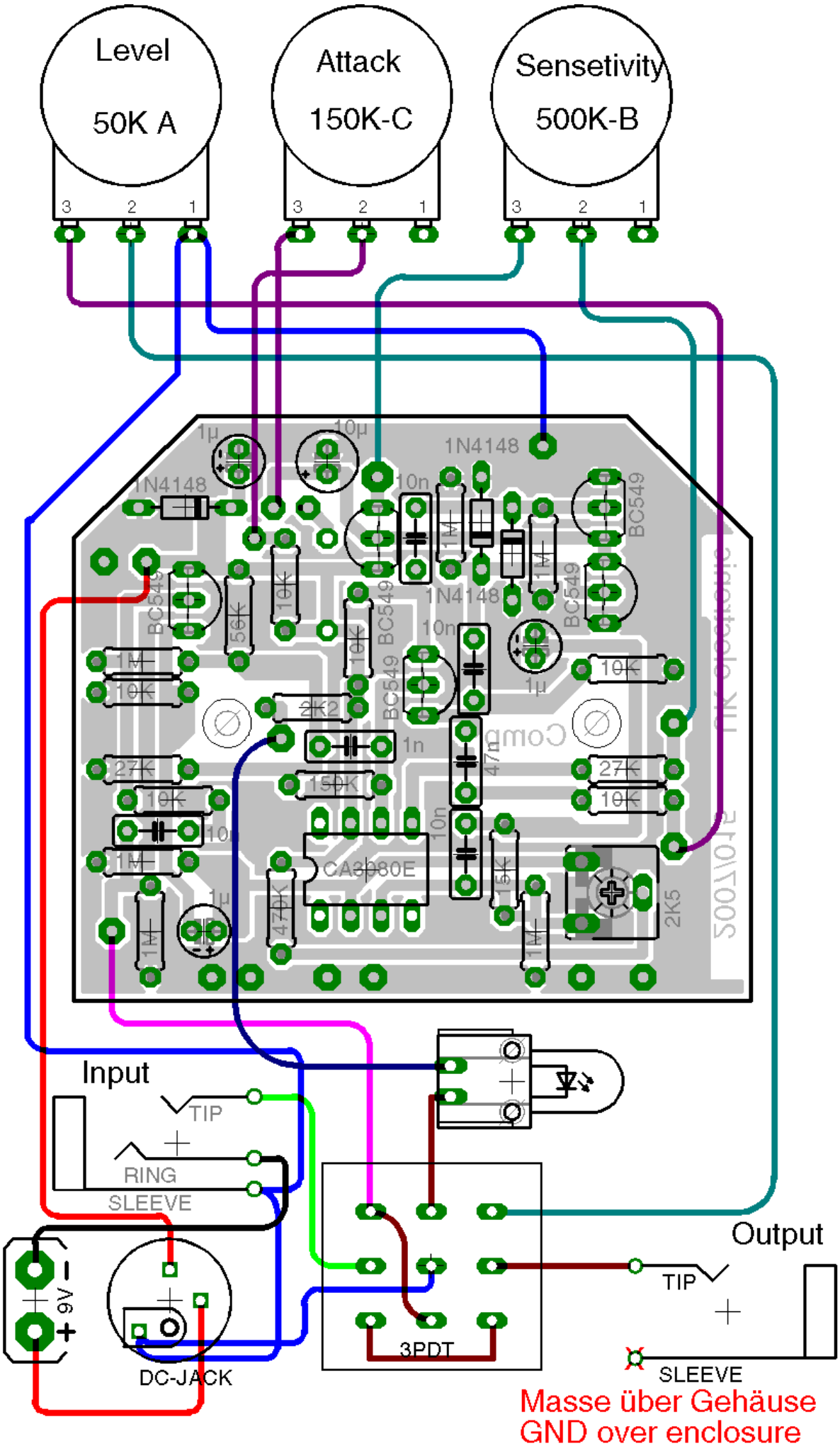
Input jcak pre-wired

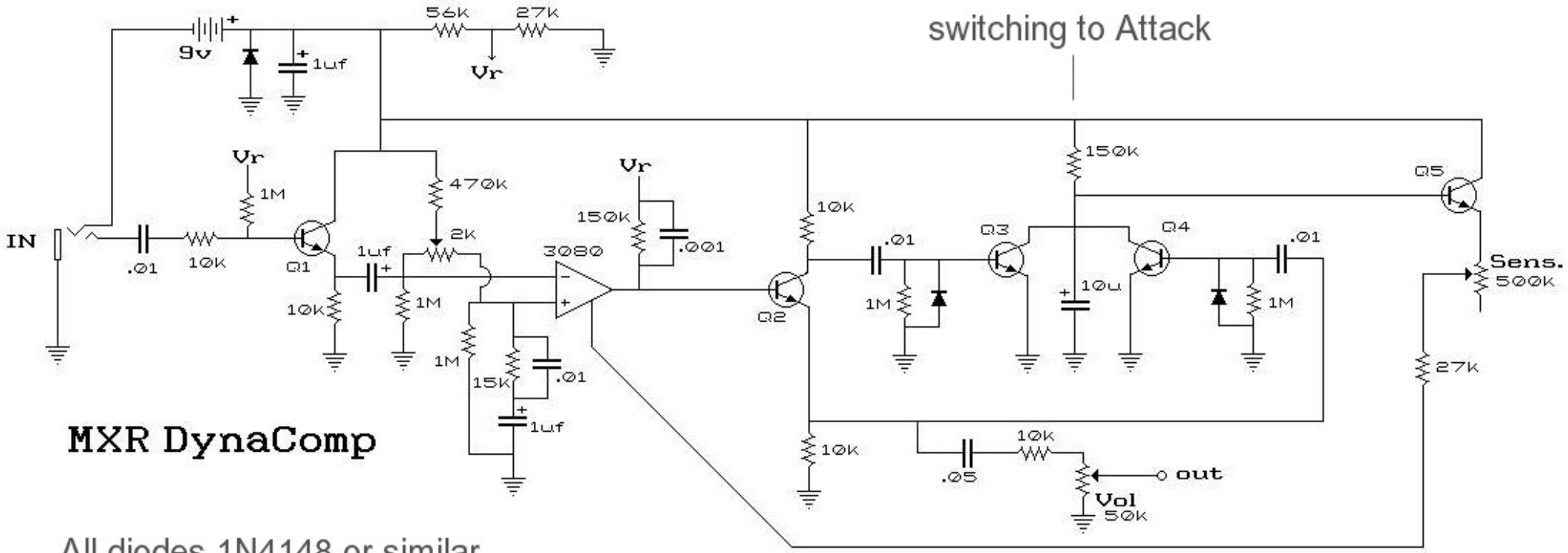




As enclosure choose the 1590B, 1550B, 27134PSLA, GEH013 or other.

For clean construction and proper wiring, the effect device should work immediately. The adjustment of the compressor is limited only to the adjustment of the 2K5 trimming potentiometer. In most cases, this is not required, and it remains in the middle position. In case of possible distortions during the decay or dying of the tone you should compensate this with this control.
If you have any questions, please do not hesitate to contact us.


Level
50K A
Attack
150K-C
Sensetivity
500K-B
3 2 1
1µ
10µ
1N4148
10n
1M
BC549
10K
56K
2K2
1n
47n
150K
CA3080E
27K
16K
2K5
Input
TIP
RING
SLEEVE
9V
DC-JACK
3PDT
Output
TIP
SLEEVE
Masse über Gehäuse
GND over enclosure



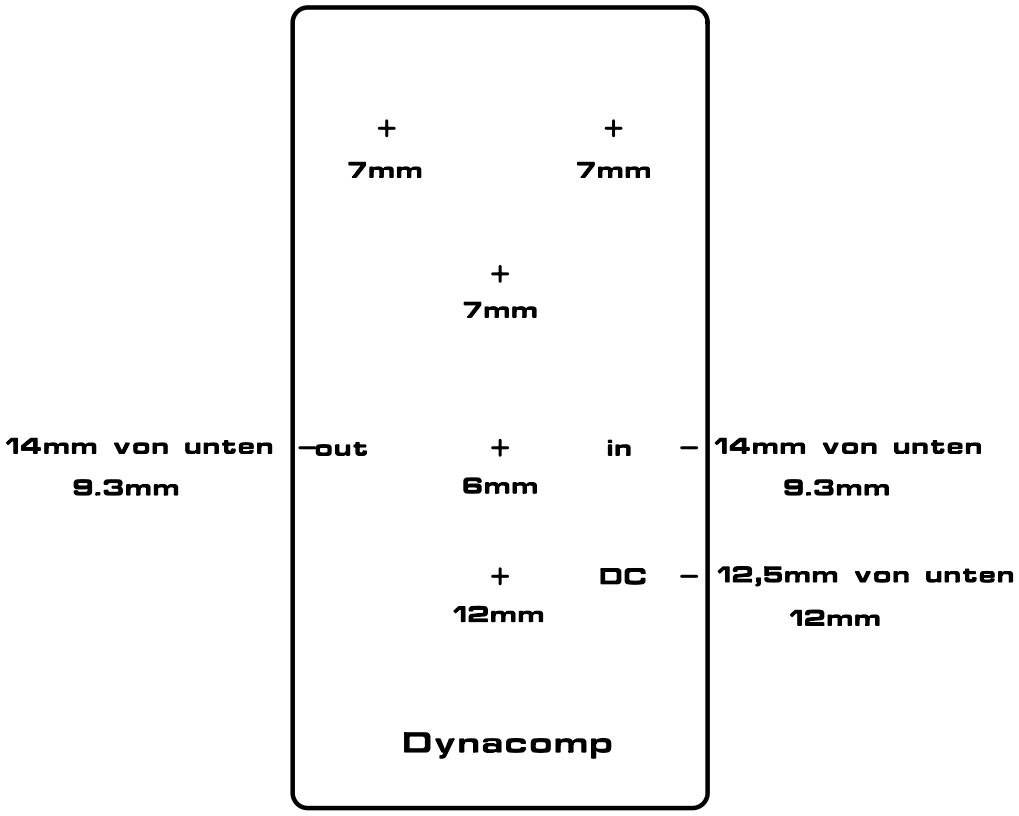
All diodes 1N4148 or similar
Zin=1MOhm, Zout=10K
max. compression=36dB
Attack=5ms
Decay max. 1000m

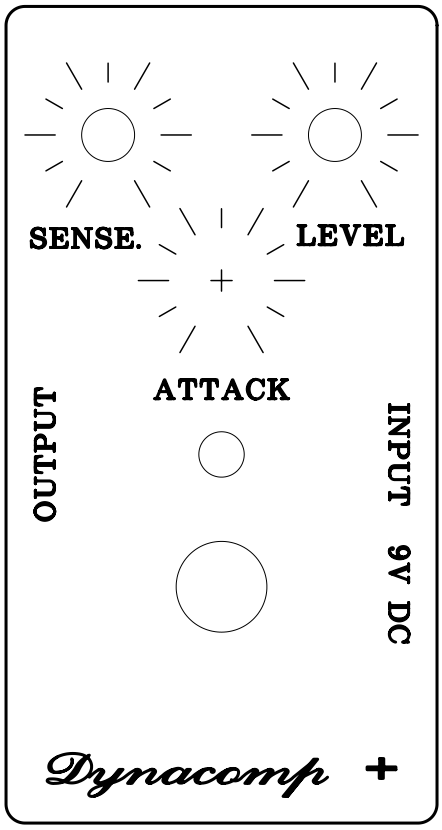
circuit sheet without switching and LED

Hier nun die Werte von einem Dynacomp. Einmal ohne und mit IC
Ein Wert in Klammer gilt für Sens Rechtsanschlag.Davor Regler zu.

UB = 9.35V

CA3080	Ohne IC	mit IC
Vref	3.0V	3.0v
	1 n.c	n.c.
	2 4,74V	4.70V
	3 4,74V	4,74V
	4 0V	0V
	5 8.44V (8.86V)	0.63V (0.70V)
	6 2.90V (2.90V)	2.90V (2.73V)
	7 9.35V	9.35V
	8 n.c.	n.c


+
7mm
+
7mm
+
7mm
14mm von unten
9.3mm
–out
+
6mm
in
–
14mm von unten
9.3mm
+
12mm
DC
–
12,5mm von unten
12mm
Dynacomp


SENSE.
LEVEL
ATTACK
OUTPUT
INPUT 9V DC
Dynacomp +