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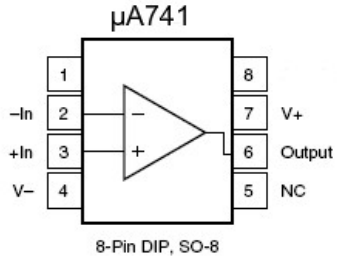
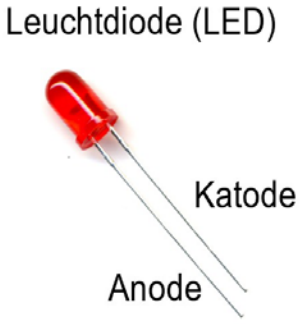
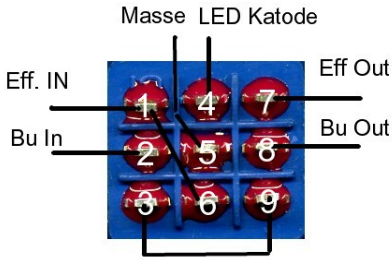
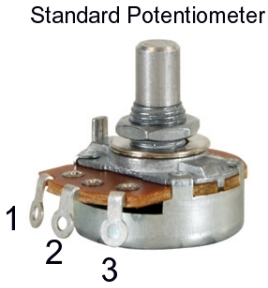
Manual for Distortion YJM 308 ®

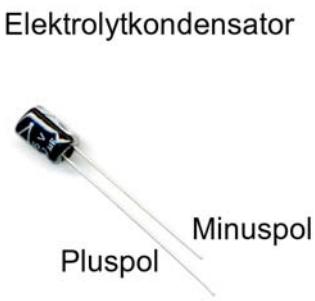
Some connection of important components

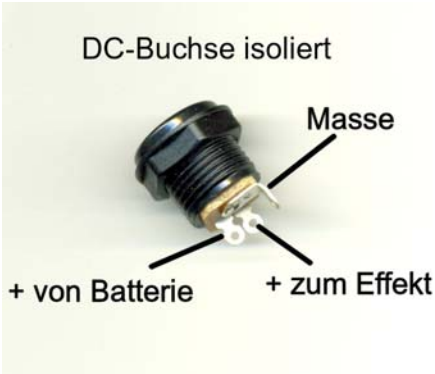




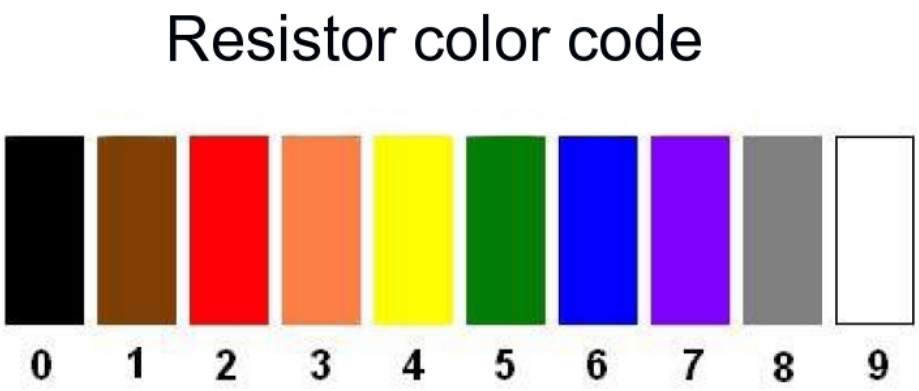


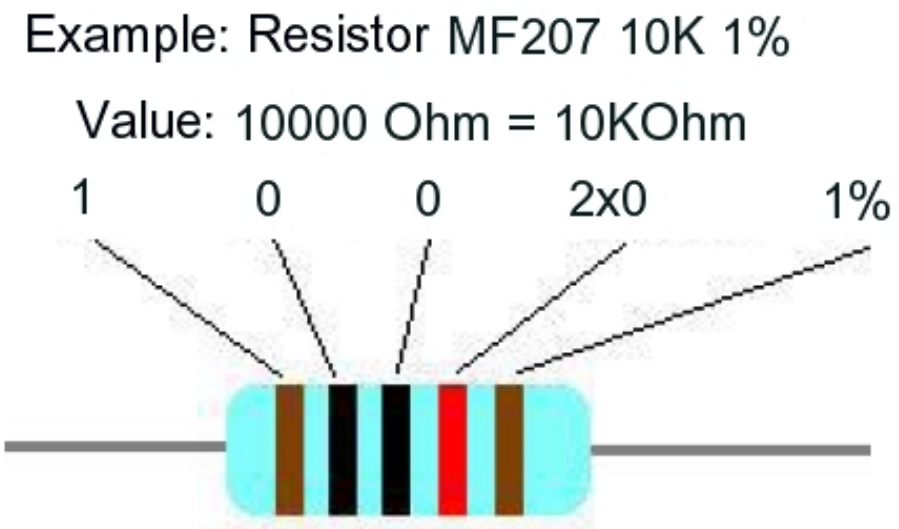




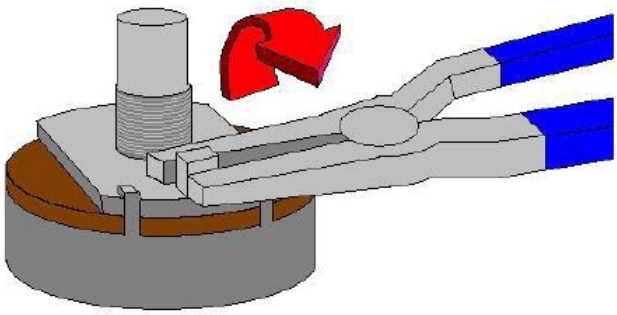


Color table for resistors MF207 FTE52 1% and a example





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

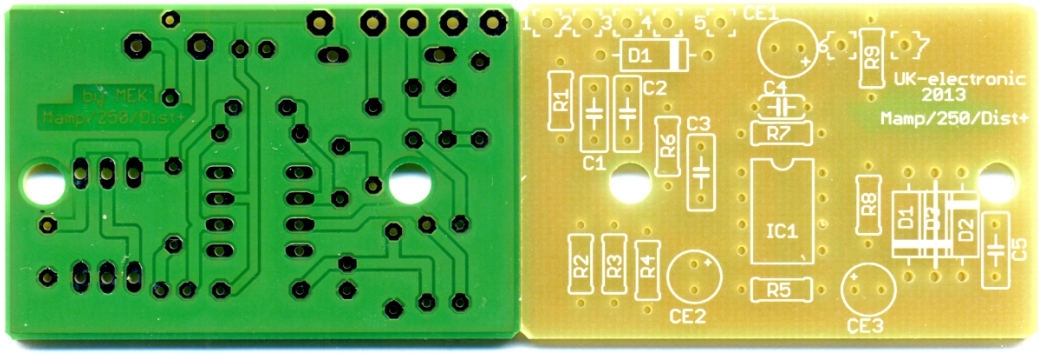


Bill of material

Quantity	Description
1	Mono jack ¼“
1	Stereo jack ¼“
1	3PDT Switch
1	PCB universal (Microamp, DOD250, MXR+, YM308)
1	LED bezekl 3mm Chrome
1	LED red 3mm Low Current
1	Pot 100K A (logarithmic)
1	Pot 500K C (rev. Log)
2	Self adhesive spacer LP 4,8mm
1	DC-jack
1	IC OPA134PA
1	Socket LC 08
1	Resistor 2K2 (red/red/black/brown/brown) –R9
1	Resistor 4K7 (yellow/violet/black/brown/brown) –R6
1	Resistor 10K (brown/black/black/red/brown) –R2
2	Resistor 22K (red/red/black/red/brown) –R4, R5
1	Resistor 470K (yellow/violet/black/orange/brown) –R3
1	Resistor 1M (brown/black/black/yellow/brown) –R7
1	Resistor 2,2M (red/red/black/yellow/brown) – R1
1	Bridge - **R8**
2	MKT 1nF = 0.001µF –C2, C5
1	MKT 47nF = 0.047µF –C3
1	SDPN ceramic 22p – C4
1	1N4001 – D4
2	1N4148 –D1,D2, D3=Brücke/Bridge
1	RASM 4,7µF –CE3
1	RASM 10µF –CE2
1	RASM 47µF –CE1
1	Battery connector
1	Some colored wire
2	Cable fastener

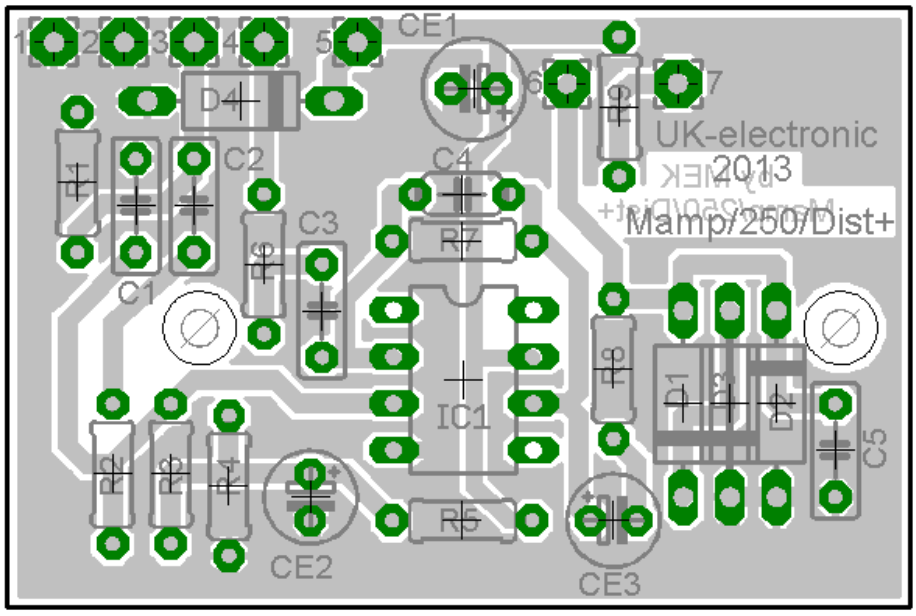
Solder tin is not a part of delivery.

PCB Top/Bottom



Soldering the pcb

First, the circuit board is soldering based on the placement plan shown below. For this we should start with the lowest components to be fitted, ie first of all the resistors, diodes, capacitors and finally the IC socket. Clean work, in particular the execution of the solder joints should have top priority to generally exclude from the outset assembly and soldering defects.

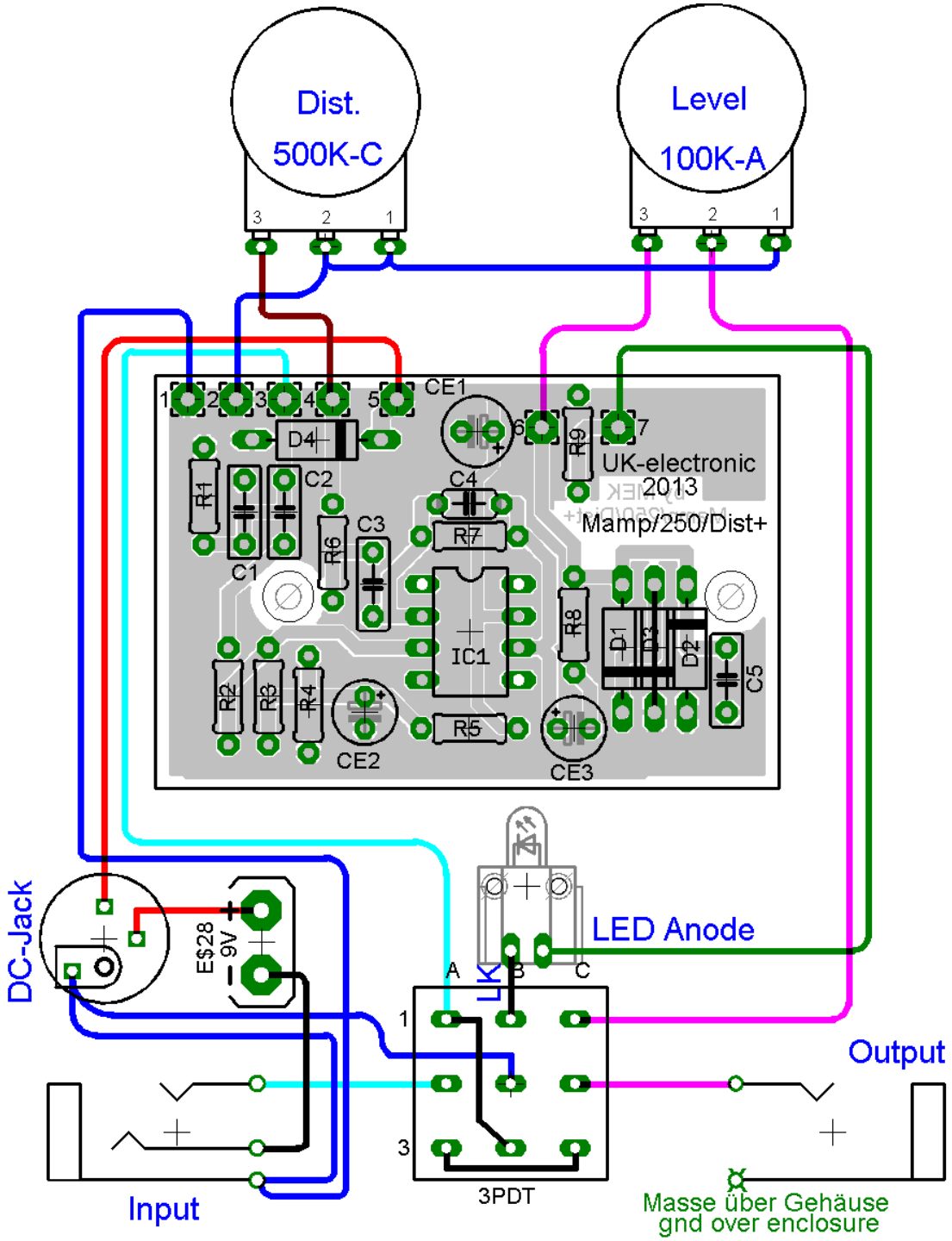


IC1=OPA134, LM741,TL081,TL071 o.ä.
D1, D2, =1N4148, D3= Brücke/Bridge

After the PCB is fully soldering done the wiring according to the wiring diagram below. First, however, should be equipped already with all passive components (switches, jacks, potentiometer and the LED) the pre-drilled enclosure.

cathode of the LED (short leg) is soldered directly to the switch, may extend the cut off leg of the anode and isolate the piece of fabric hose.

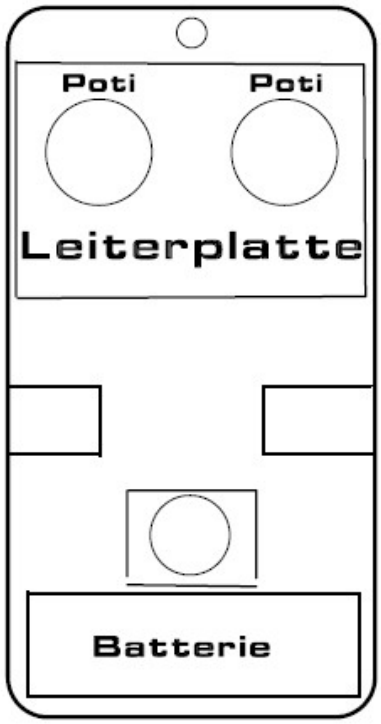
External wiring



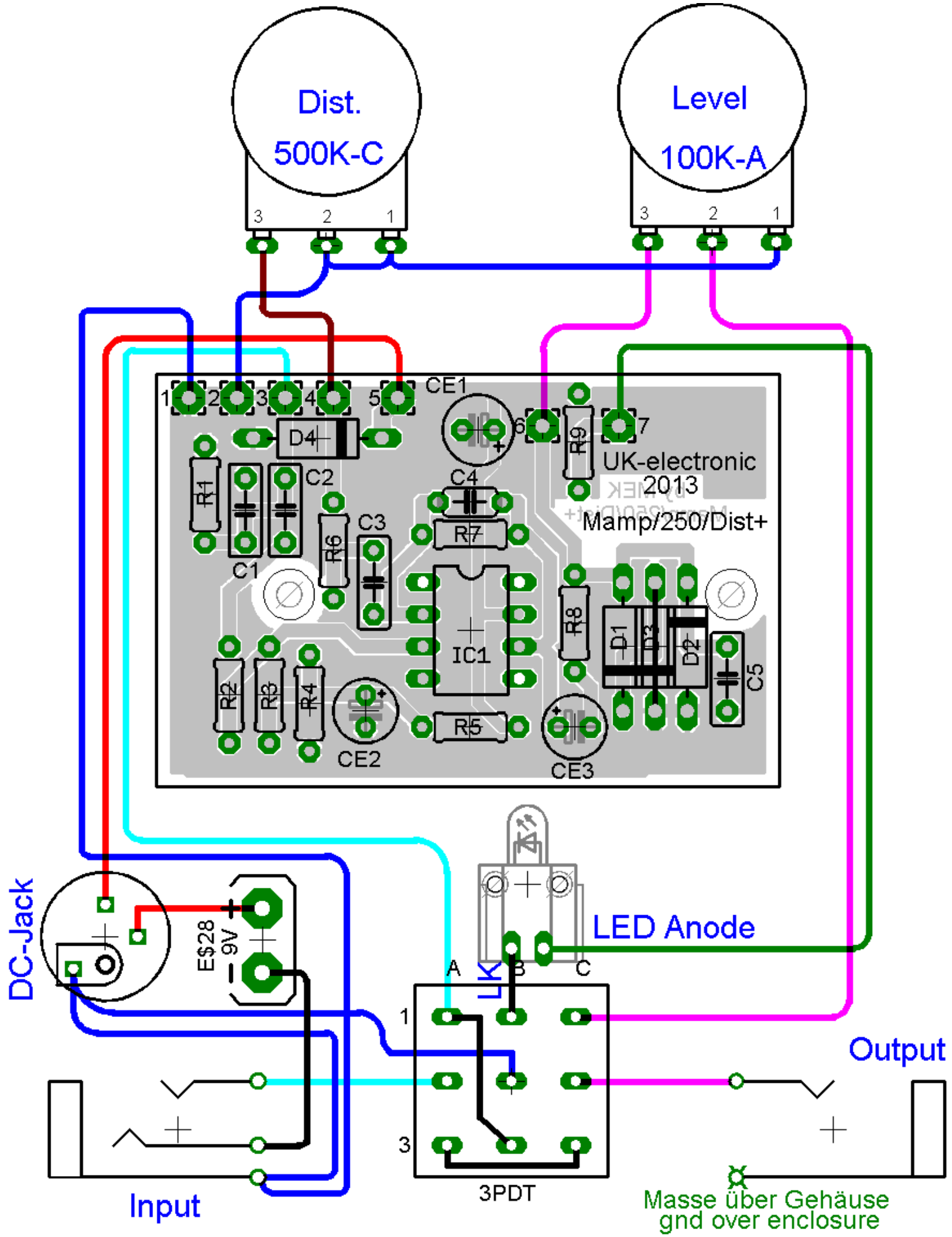
The mounting of the circuit board in the enclosure by means of the supplied self-adhesive spacers on the back on the potentiometers.

The following drill diameter should be used:
Potentiometer: 7mm
Jacks: 9mm
3PDT switch: 12mm
DC jack: 12mm
LED Socket: 6mm

As the enclosure size is 1590B, 27134 or GEH020 used.
With clean design and proper wiring, the effects device should work immediately. For any questions we are always available.



The distance of the potentiometer to each other should be about 30mm. The DC socket is expediently below the input connector at the level of the switch at a distance of 12mm from the lower edge of the housing. The distance of the hole from the switch 30mm, 15mm sockets in each case measured from the bottom.


Dist.
500K-C
Level
100K-A
3
2
1
CE1
D4
C2
C4
R1
R9
UK-electronic
2013
Mamp/250/Dist+
C1
C3
R6
R7
IC1
R8
D1
D3
D2
C5
R2
R3
R4
CE2
R5
CE3
DC-Jack
E$28
9V
LED Anode
A
K
B
C
1
3
Output
Input
3PDT
Masse über Gehäuse
gnd over enclosure

Distortion
Level
OUTPUT
INPUT
9V DC