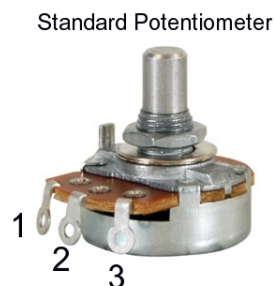
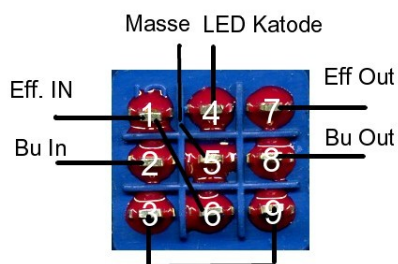
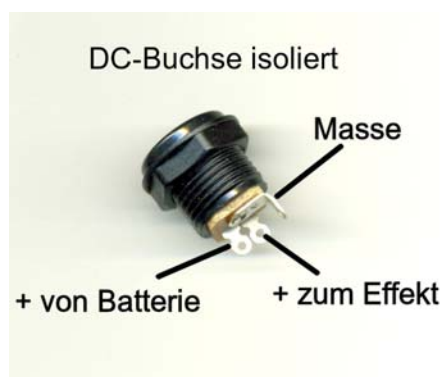
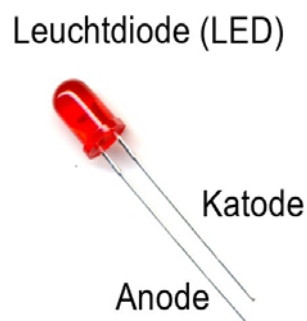
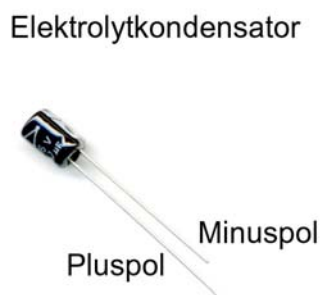


# UK-electronic ©2010/15

## Assembly manual for the Kit Big Muff (Ram's Head Version)











Page 2.....	Basics
Page 3.....	Bill of material
Page 4.....	Soldering the pcb
Page 5.....	Offboard wiring diagram
Page 6.....	Mounting
Page 7.....	Circuit sheet
Page 8.....	Drill template

Some connections of important components



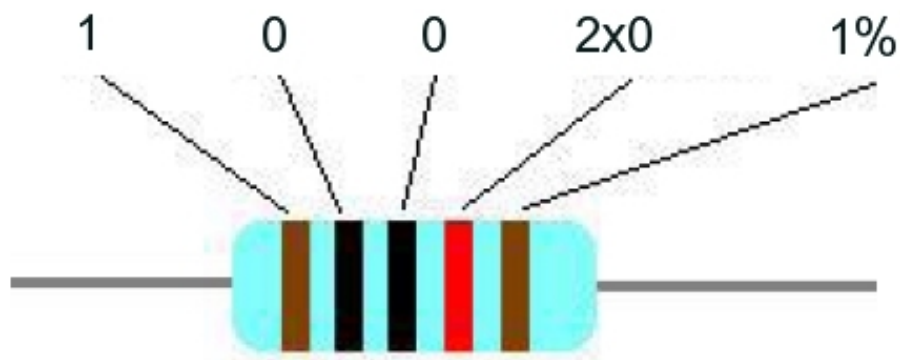
## Color table for resistors MF207 FTE52 1% and a example

### Resistor color code

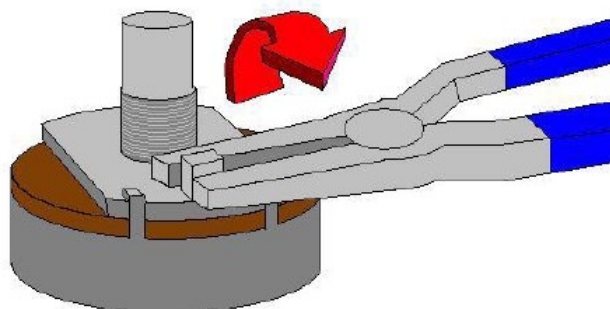
									
0	1	2	3	4	5	6	7	8	9

Example: Resistor MF207 10K 1%

Value: 10000 Ohm = 10KOhm



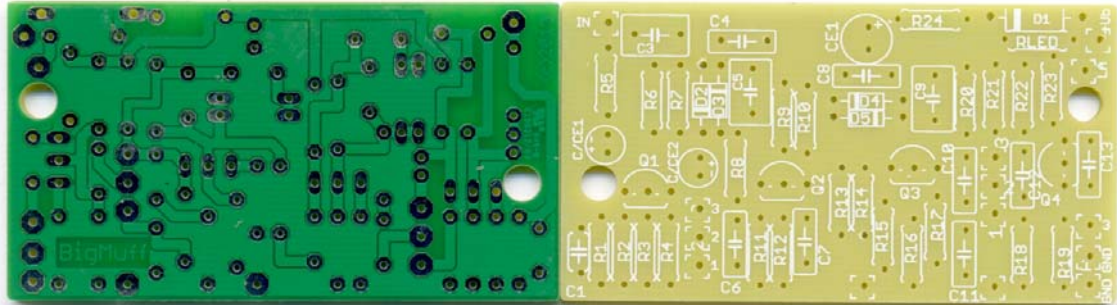
Breaking nose at the potentiometer  
Nase am Poti mit einer Flachzange abbrechen



## Materialliste / bill of material

1	PCB Big Muff
1	Mono jack
1	Stereo jack
1	3PDT switch
1	LED red 3mm
1	LED bezel for 3mm LED
1	Pot 100K-B (linear)
2	Pot 100K-A (logarithmic)
1	DC-jack 2.1/5.5 isolated
1	Batteriy connector 9V
2	Self adhesive spacer (12,7mm)
3	Cable fastener
1	Some colored wire
4	2N5088 – <b>Q1, Q2, Q3, Q4</b>
1	Diode 1N5817 (Kathode Line)- <b>D1</b>
4	Diode 1N914 (Kathode Line)- <b>D2, D3, D4, D5</b>
1	Resistor 22R (red/red/black/gold/brown) – <b>R24</b>
1	Resistor 100R (brown/black/black/black/brown) – <b>R2</b>
2	Resistor 150R (brown/green/black/black/brown) – <b>R11, R14</b>
1	Resistor 820R (grey/red/black/black/brown) – <b>R4</b>
1	Resistor 2K2 (red/red/black/braun/brown) – <b>R LED</b>
1	Resistor 3K3 (orange/orange/black/brown/brown) – <b>R19</b>
2	Resistor 10K (brown/black/black/red/brown) – <b>R8, R13</b>
3	Resistor 12K (brown/red/black/red/brown) – <b>R7, R10, R23</b>
1	Resistor 22K (red/red/black/red/brown) – <b>R21</b>
3	Resistor 33K (orange/orange/black/red/brown) – <b>R5, R16, R17</b>
4	Resistor 100K (brown/black/black/orange/brown) – <b>R3, R12, R15, R18</b>
1	Resistor 390K (orange/white/black/orange/brown –, <b>R22</b>
3	Resistor 470K (Yellow/violet/black/orange/brown) – <b>R6, R9, R20</b>
1	Resistor 1M (brown/black/black/yellow/brown) – <b>R1</b>
1	Capacitor ceramic 100pF = 101 – <b>C1</b>
1	Capacitor FKP2 220pF =221 – <b>C3</b>
2	Capacitor FKP2 680pF= 681 – <b>C5, C9</b>
1	Capacitor MKT 3,9nF (0.0039µF ) – <b>C10</b>
1	Capacitor MKT 6,8nF (0.068µF) – <b>C11</b>
4	Capacitor SMF 120nF (0.12µF = 124) – <b>C4, C8, C12, C/CE2</b>
1	Capacitor SMF 180nF (0.18µF= 184) – <b>C6</b>
3	Electrolytic capacitor bipolar 10µF/35V – <b>C7, C13, C/CE1 no polarity!!!</b>
1	Electrolytic capacitor RASM 100µF/16V – <b>CE1</b>

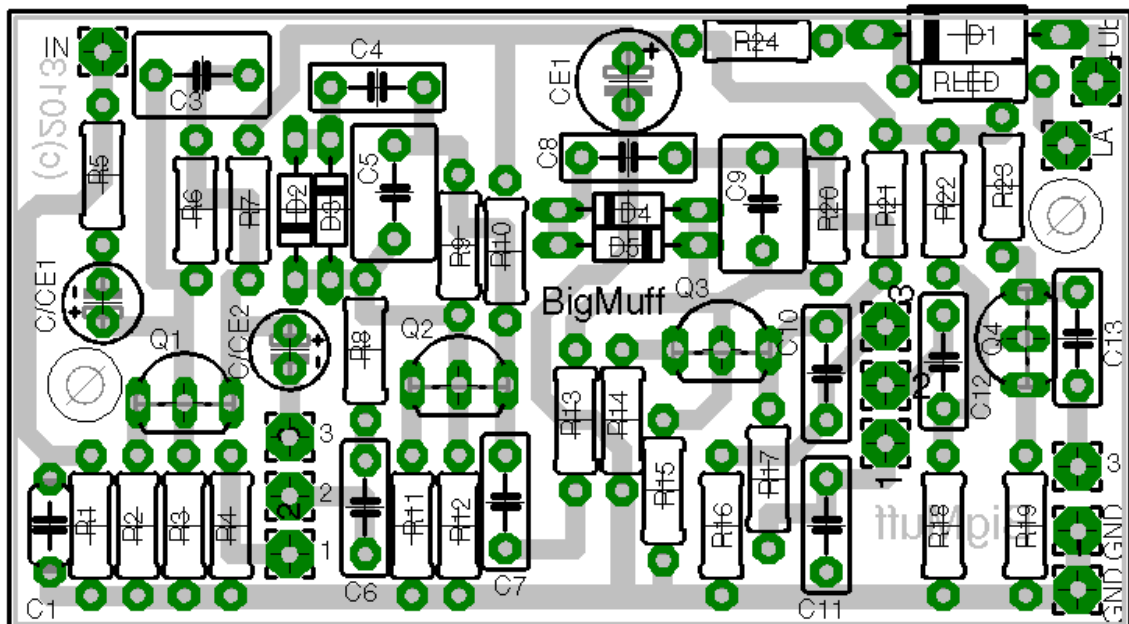
Picture of the pcb top/bottom



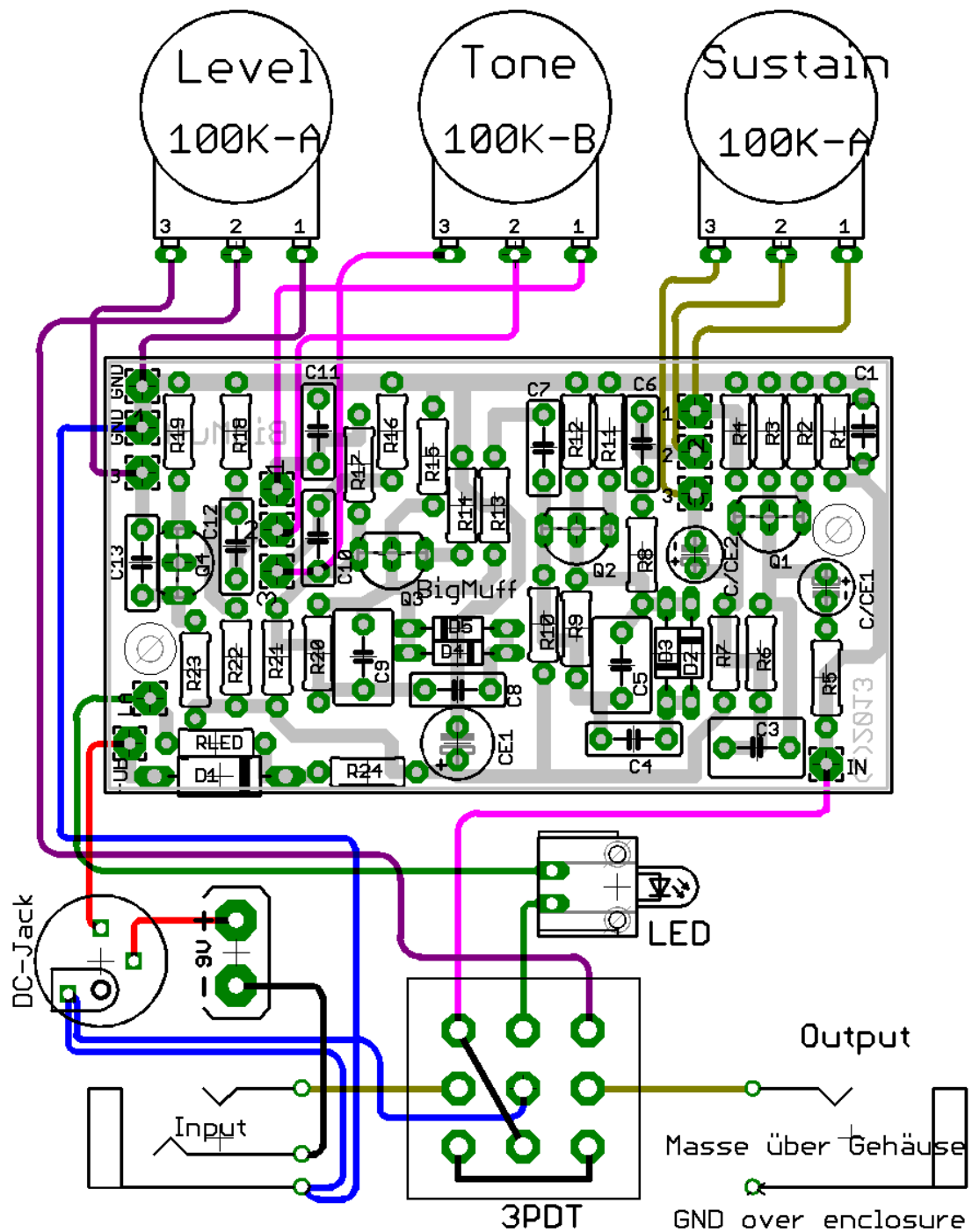
Soldering the pcb

First, the printed circuit board is assembled by means of the placement schedule shown below. For this we should start with the lowest components to be fitted, ie as the first resistors, diodes, capacitors, transistors and circuit. Clean work, especially the execution of the solder joints should have top priority to generally exclude from the outset assembly and solder defects. The capacitors **C7**, **C13**, **C/CE1** are in this variant electrolytic capacitors non-polarized (bipolar).

Layout



# Offboard wiring

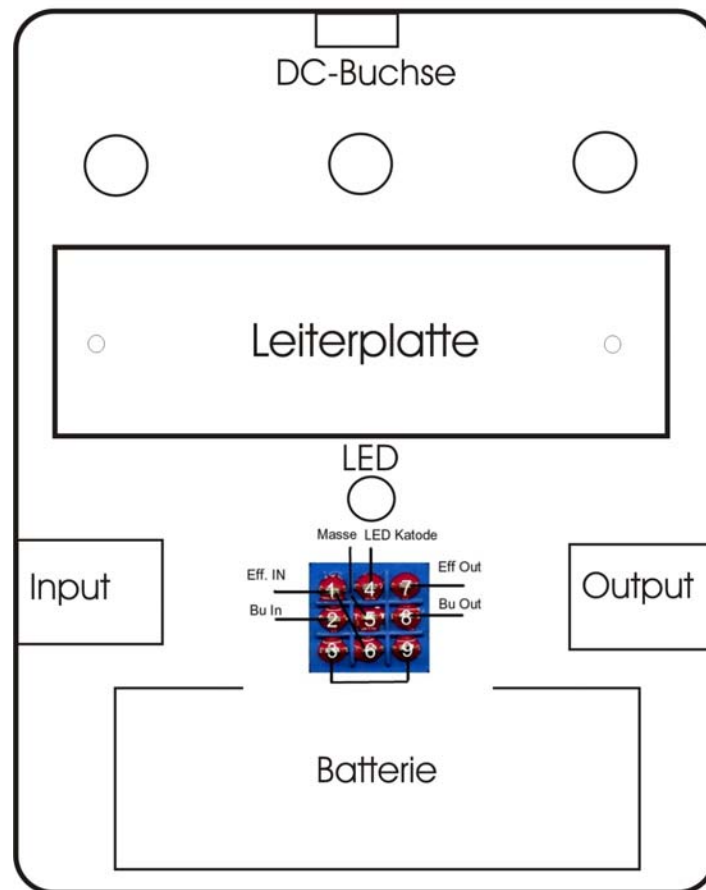


As enclosure used a 1590BB (GEH090) or other.

The mechanical components you can placed shown at the picture below.

Template for a enclosure Hammond 1590BB or GEH090

Achtung! Nicht Maßstabsgerecht



Drill parameters fort the enclosure:

Potentiometer : 7mm

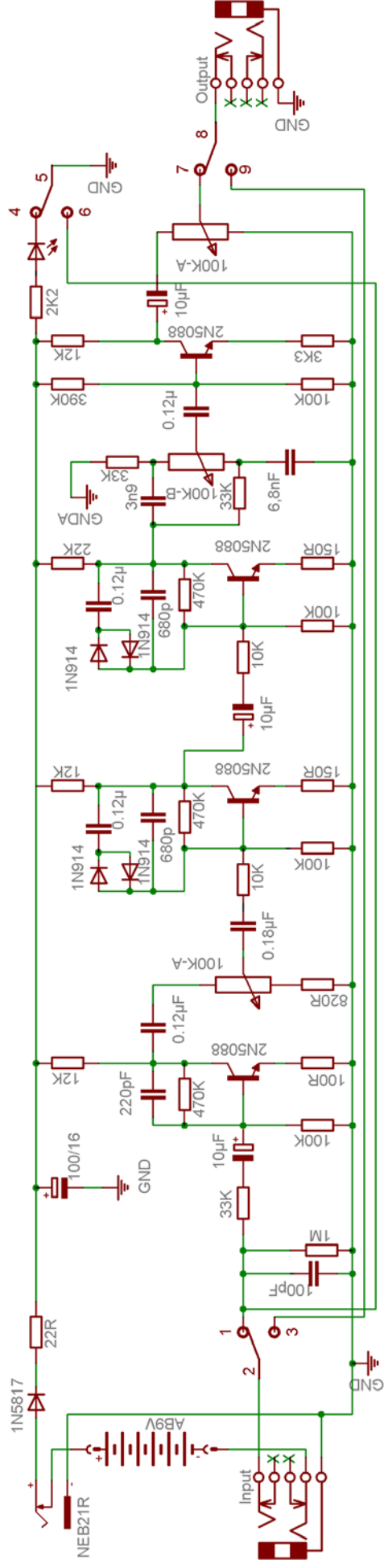
Audio jacks : 9.5mm

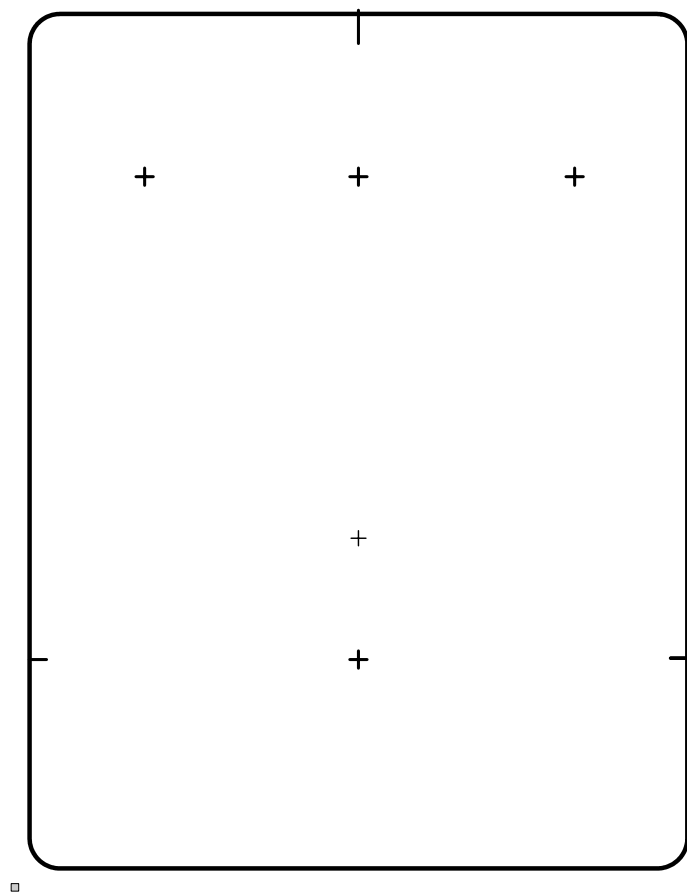
3PDT-switch: 12mm

DC-jack: 12mm

LED bezel: 6mm

## Big Muff (Ram's Head Version)





□





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