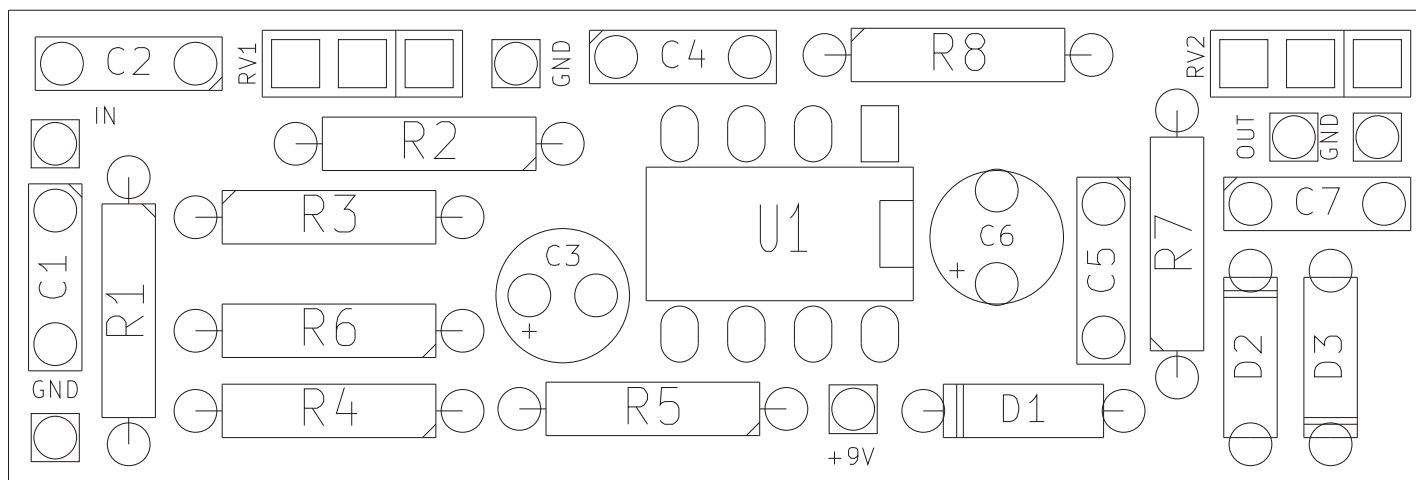
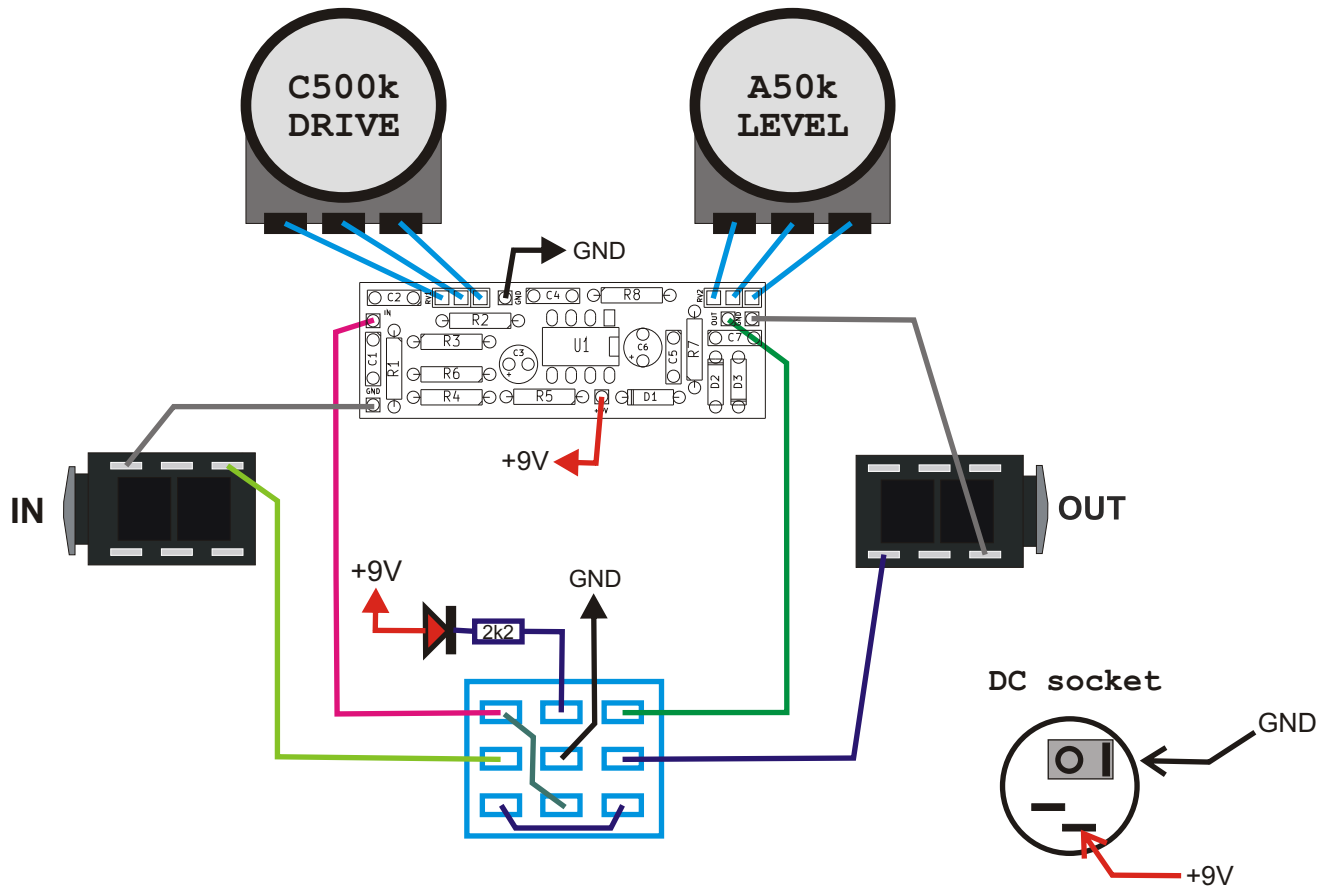


PCB parts placement diagram:



R1	1M	C1	1n	D1	1N400X
R2	4k7	C2	10n	D2	1N34A
R3	10k	C3	1u	D3	1N34A
R4	1M	C4	47n	U1	741
R5	1M	C5	10p		
R6	1M	C6	1u		
R7	1M	C7	1n		
R8	10k				
RV1	C500k				
RV2	A50k				

Wiring (bottom view):



Use metal enclosure connected to ground.
Power supply: 9V DC

Bill of materials:

Resistors:

4k7 1pcs. "R2"
10k 2pcs. "R3 R8"
1M 5pcs. "R1 R4 R5 R6 R7"

Capacitors:

10p 1pcs. "C5"
1n 2pcs. "C1 C7"
10n 1pcs. "C2"
47n 1pcs. "C4"

Potentiometers:

C500k 1pcs. "DRIVE"
A50k 1pcs. "LEVEL"

Electrolytics capacitors:

1u 2pcs. "C3 C6"

Other:

Knobs 2pcs.
Footswitch 3PDT 1pcs.
DC socket 5.5/2.1 1pcs.
JACK socket 2pcs.

Semiconductors:

1N400X 1pcs. "D1"
1N34A 2pcs. "D2 D3"
741 1pcs. "U1"

Resistor color code:



$$390 \times 10\Omega = 3,9k\Omega$$

Color	Band 1	Band 2	Band 3	Multiplier	Tolerance
Black	0	0	0	1 Ω	
Brown	1	1	1	10 Ω	1%
Red	2	2	2	100 Ω	2%
Orange	3	3	3	1k Ω	
Yellow	4	4	4	10 k Ω	
Green	5	5	5	100 k Ω	0,5%
Blue	6	6	6	1 M Ω	0,25%
Purple	7	7	7	10 M Ω	0,1%
Gray	8	8	8	100 M Ω	0,05%
White	9	9	9	1 G Ω	
Gold				0,1 Ω	5%
Silver				0,01 Ω	10%

Capacitors markings:

$$\begin{aligned}
 471 &= 47 \times 10^1 \text{ pF} = 470 \text{ pF} \\
 472 &= 47 \times 10^2 \text{ pF} = 4700 \text{ pF} = 4,7 \text{ nF} \\
 473 &= 47 \times 10^3 \text{ pF} = 47000 \text{ pF} = 47 \text{ nF} \\
 474 &= 47 \times 10^4 \text{ pF} = 470000 \text{ pF} = 470 \text{ nF}
 \end{aligned}$$

$$\begin{aligned}
 100 \text{ pF} &= 100 \text{ p} = 100 = 101 \\
 220 \text{ pF} &= 220 \text{ p} = 220 = 221 \\
 4,7 \text{ nF} &= 4 \text{ n}7 = 0.0047 = 472 \\
 10 \text{ nF} &= 10 \text{ n} = 0.01 = 103 \\
 100 \text{ nF} &= 100 \text{ n} = 0.1 = 104 \\
 220 \text{ nF} &= 220 \text{ n} = 0.22 = 224 \\
 470 \text{ nF} &= 470 \text{ n} = 0.47 = 474 \\
 1000 \text{ nF} &= 1 \mu\text{F} = 1 \mu = 105
 \end{aligned}$$