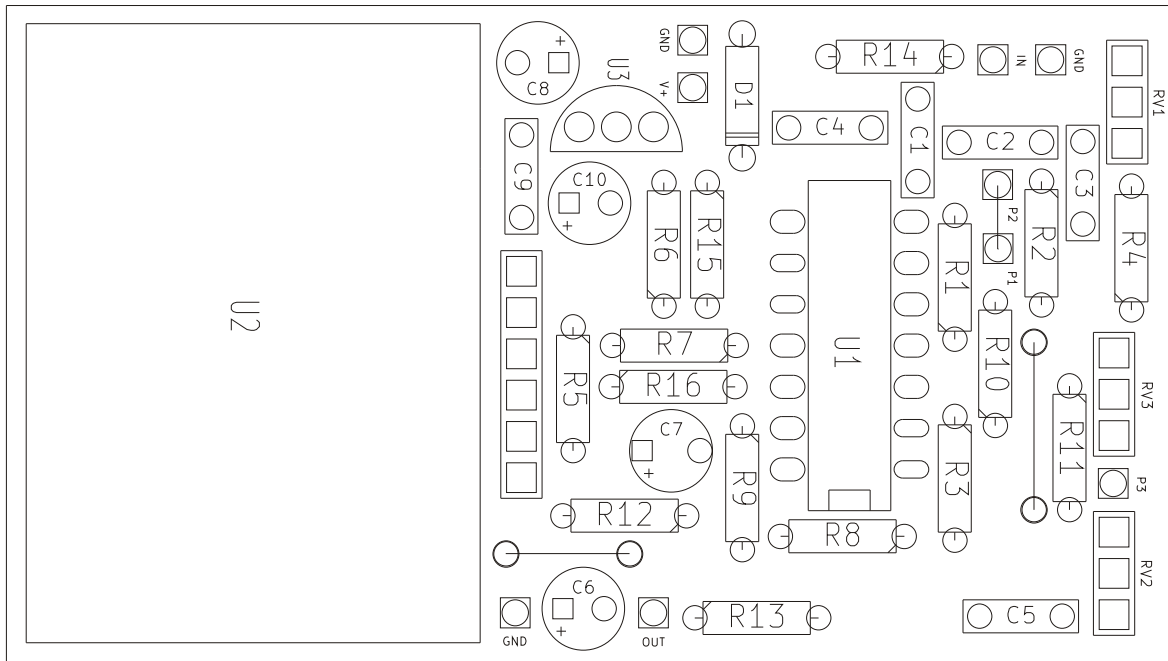


PCB parts placement diagram:



R1	1M	C1	100n	RV1	B50k
R2	10k	C2	22n	RV2	B10k
R3	22k	C3	47n	RV3	B20k
R4	68k	C4	47n		
R5	10k	C5	33n	D1	1N400X
R6	10k	C6	10u	U1	TL074
R7	4k7	C7	47u	U2	BTDR-2
R8	10k	C8	47u	U3	78L05
R9	22k	C9	100n		
R10	82k	C10	47u		
R11	47k				
R12	470R				
R13	100k				
R14	1M				
R15	10k				
R16	10k				

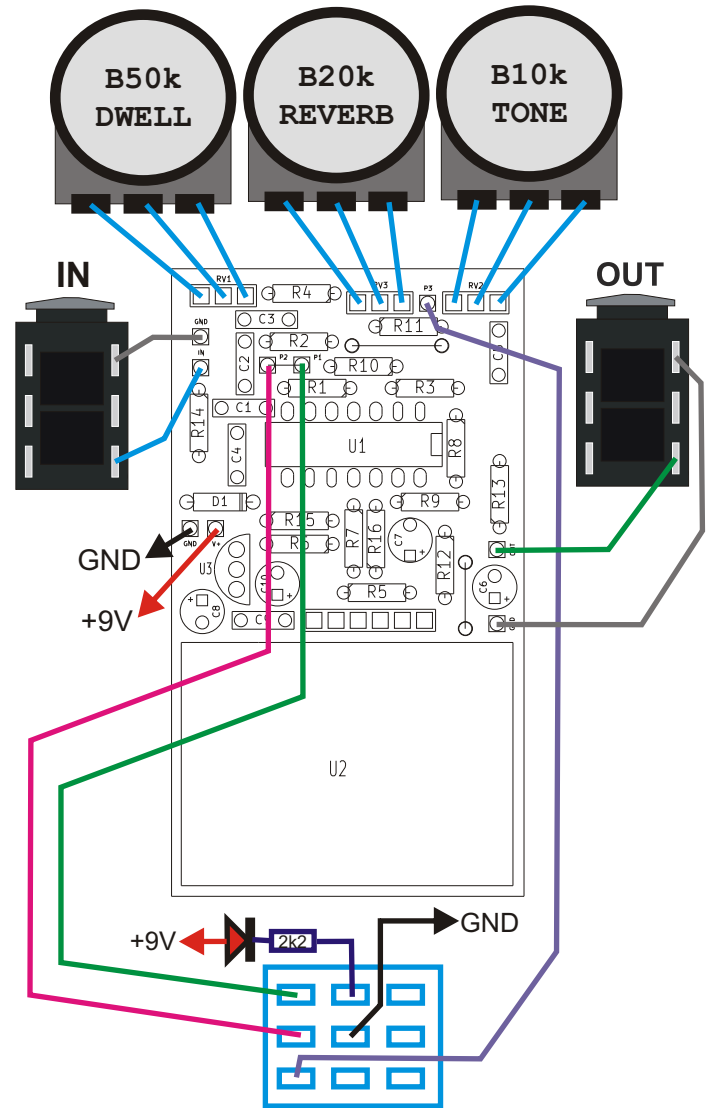
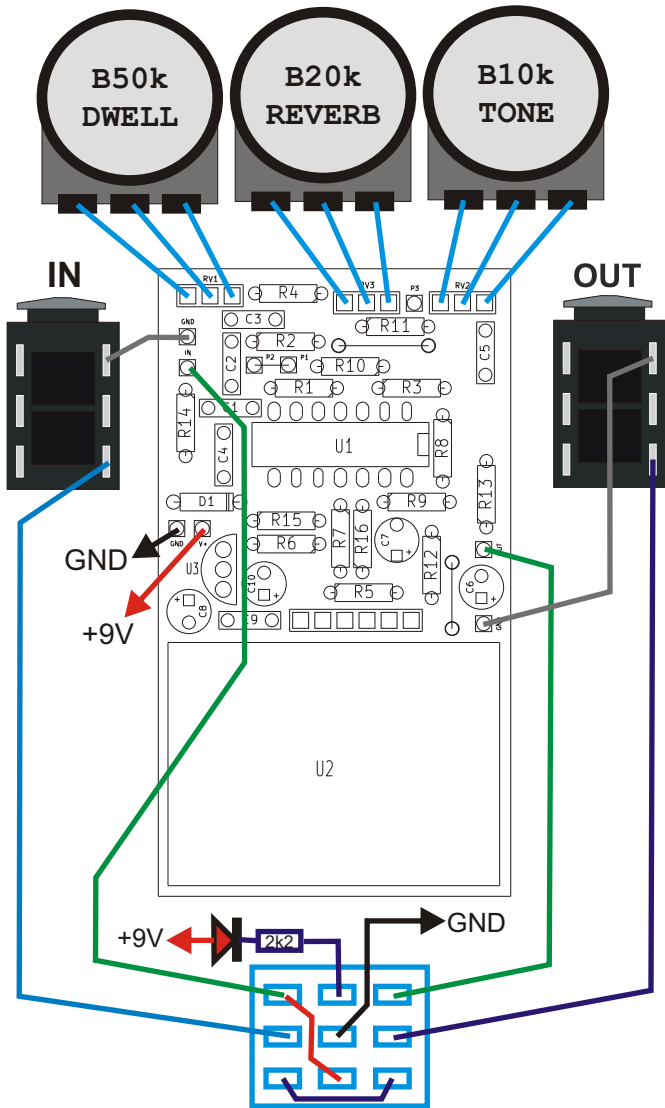
Wiring (bottom view):

True Bypass:

Connect points P1 & P2 on pcb.

Reverb with tails:

Do not connect points P1 & P2 on pcb.



Use metal enclosure connected to ground.

Power supply: 9V DC

Bill of materials:

Resistors:

- 470R 1pcs. "R12"
- 2k2 1pcs. "LED"
- 4k7 1pcs. "R7"
- 10k 6pcs. "R2 R5 R6 R8 R15 R16"
- 22k 2pcs. "R3 R9"
- 47k 1pcs. "R11"
- 68k 1pcs. "R4"
- 82k 1pcs. "R10"
- 100k 1pcs. "R13"
- 1M 2pcs. "R1 R14"

Capacitors:

- 22n 1pcs. "C2"
- 33n 1pcs. "C5"
- 47n 2pcs. "C3 C4"
- 100n 2pcs. "C1 C9"

Electrolytic capacitors:

- 10u 1pcs. "C6"
- 47u 3pcs. "C7 C8 C10"

Other:

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

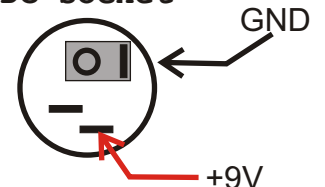
Potentiometers:

- B10k 1pcs. "TONE"
- B20k 1pcs. "REVERB"
- B50k 1pcs. "DWELL"

Semiconductors:

- 1N400X 1pcs. "D1"
- 78L05 1pcs. "U3"
- TL074 1pcs. "U1"
- BTDR-2 1pcs. "U2"
- LED 1pcs.

DC socket



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:

$$471 = 47 \times 10^1 \text{ pF} = 470 \text{ pF}$$

$$472 = 47 \times 10^2 \text{ pF} = 4700 \text{ pF} = 4,7 \text{ nF}$$

$$473 = 47 \times 10^3 \text{ pF} = 47000 \text{ pF} = 47 \text{ nF}$$

$$474 = 47 \times 10^4 \text{ pF} = 470000 \text{ pF} = 470 \text{ nF}$$

$$100 \text{ pF} = 100 \text{ p} = 100 = 101$$

$$220 \text{ pF} = 220 \text{ p} = 220 = 221$$

$$4,7 \text{ nF} = 4 \text{ n}7 = 0.0047 = 472$$

$$10 \text{ nF} = 10 \text{ n} = 0.01 = 103$$

$$100 \text{ nF} = 100 \text{ n} = 0.1 = 104$$

$$220 \text{ nF} = 220 \text{ n} = 0.22 = 224$$

$$470 \text{ nF} = 470 \text{ n} = 0.47 = 474$$

$$1000 \text{ nF} = 1 \mu\text{F} = 1 \mu = 105$$