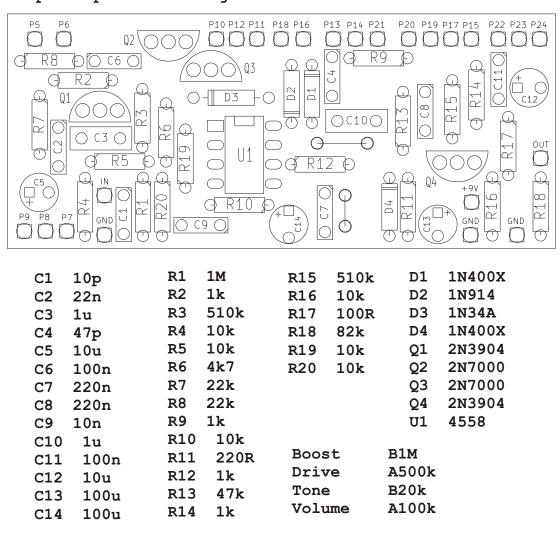
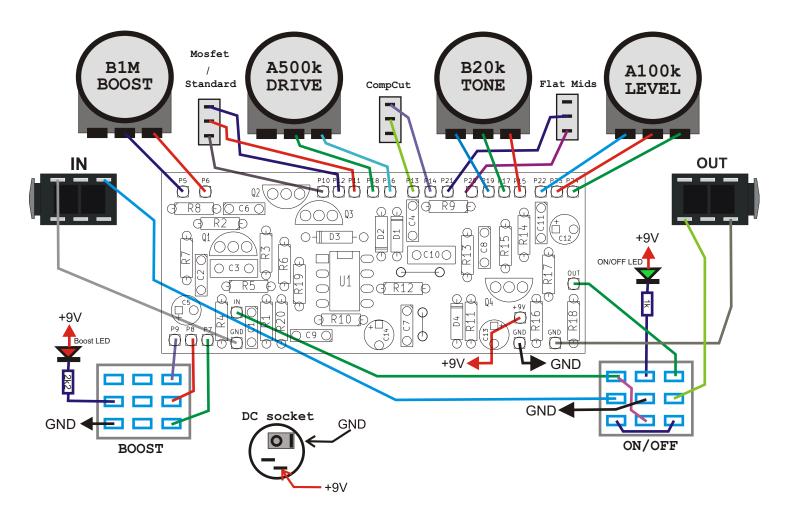


PCB parts placement diagram:



www.guitar-electronics.eu/en_US/index



Use metal enclosure connected to ground.

Power supply: 9V DC

A100k 1pcs. "LEVEL"

Bill of materials:

Resistors:				Capacitors:			Semiconductors:					
100R	1pcs.	"R17"				10p	1pcs.	"C1'	•	4558	1pcs.	"U1"
220R	1pcs.	"R11"				47p	1pcs.	"C4'	•	2N3904	2pcs.	"Q1 Q4"
1k	5pcs.	"R2 R9	R12	R14	LED"	10n	1pcs.	"C9'	•	2N7000	2pcs.	"Q2 Q3"
2k2	1pcs.	"LED"				22n	1pcs.	"C2'	T	1N34A	1pcs.	"D3"
4k7	1pcs.	"R6"				100n	2pcs.	"C6	C11"	1N400X	2pcs.	"D1 D4"
10k	6pcs.	"R4 R5	R10	R16	R19	220n	2pcs.	"C7	C8"	1N914	1pcs.	"D2"
		R20"				1u	2pcs.	"C3	C10"	LED	2pcs.	
22k	2pcs.	"R7 R8'	1									
47k	1pcs. "R13"			Electrolytic capacitors:								
82k	1pcs.	"R18"				10u	2pcs.	"C5	C12"			
510k	2pcs.	"R3 R15	5"			100u	2pcs.	"C13	3 C14"			
1M	1pcs.	"R1"										
						Other:						
Potentiometers:				Knobs			4pc	s.				
B1M 1pcs. "BOOST"				Footswitch 3PDT 2p			2pc	s.				
A500k 1pcs. "DRIVE"				DC socket 5.5/2.1 1			l 1pc	cs.				
B20k	1pcs	. "TONE	1			JACK s	ocket		2pc	s.		
								_	_			

Switch MTS102

3pcs.

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 kΩ	
Green	5	5	5	100 kΩ	0,5%
Blue	6	6	6	1 ΜΩ	0,25%
Purple	7	7	7	10 MΩ	0,1%
Gray	8	8	8	100 ΜΩ	0,05%
White	9	9	9	1 GΩ	
Gold				0,1 Ω	5%
Silver				0,01 Ω	10%

Capacitors markings:

```
471 = 47 \times 10^{1} pF = 470pF
 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}
 100pF =
               100p
                               100
                                      = 101
 220pF = 220p =
                               220
                                      = 221
 4,7nF = 4n7 = 0.0047

10nF = 10n = 0.01
                                      = 472
                                      = 103
 100nF = 100n = 0.1
220nF = 220n = 0.22
                                    = 104
= 224
 470nF = 470n = 0.47 = 474
1000nF = 1uF = 1u
                                      =
                                          105
```