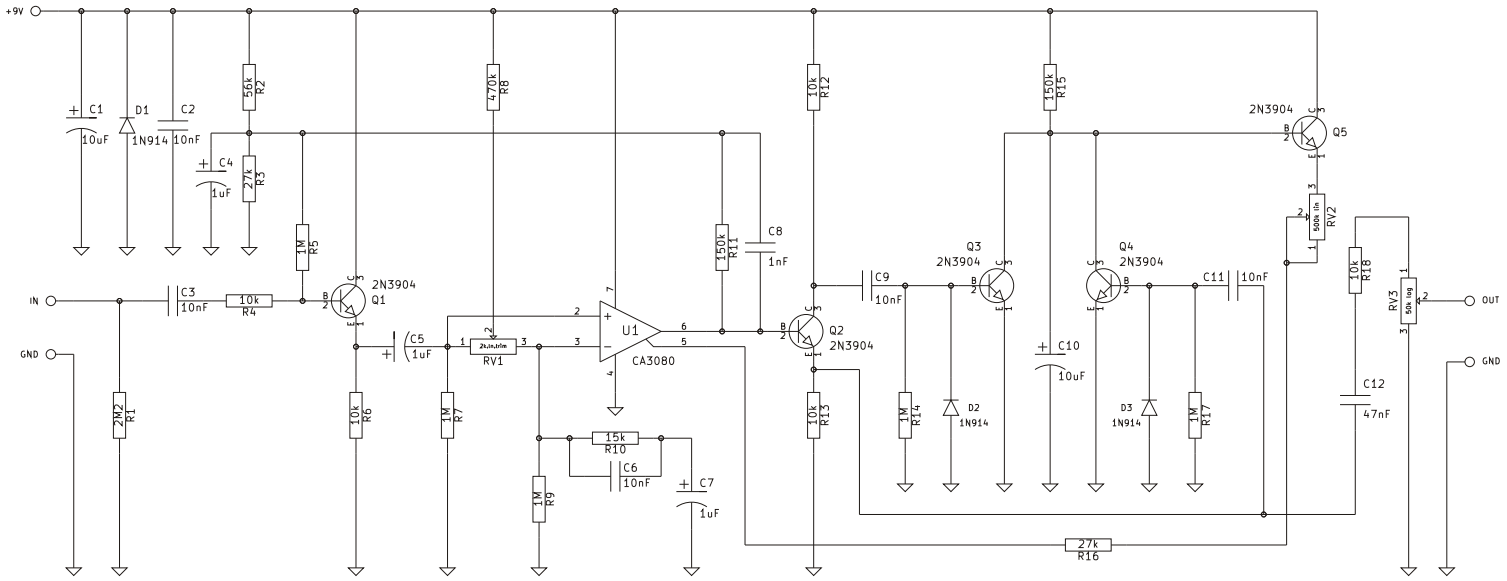
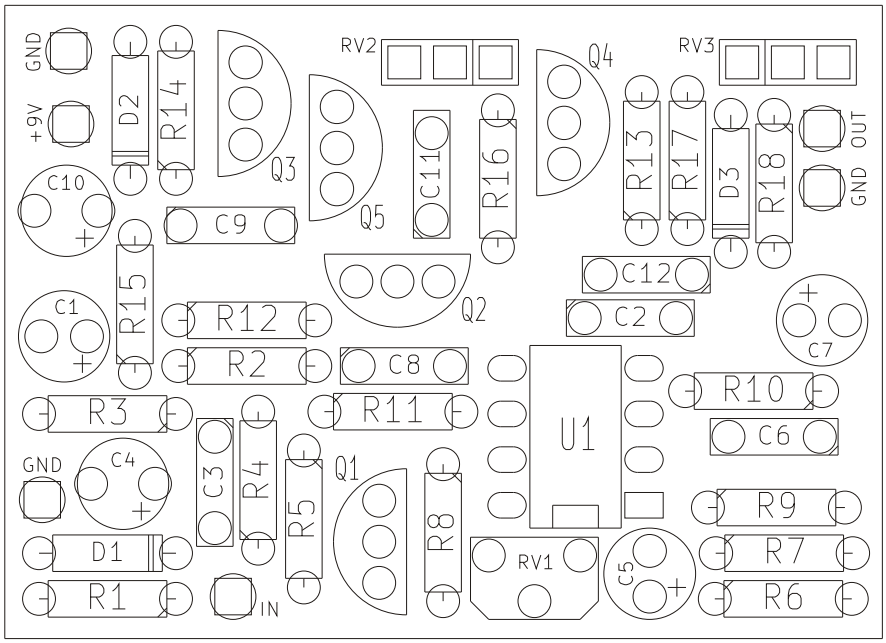
DYNA COMP™ schematic: **21.02.2019**

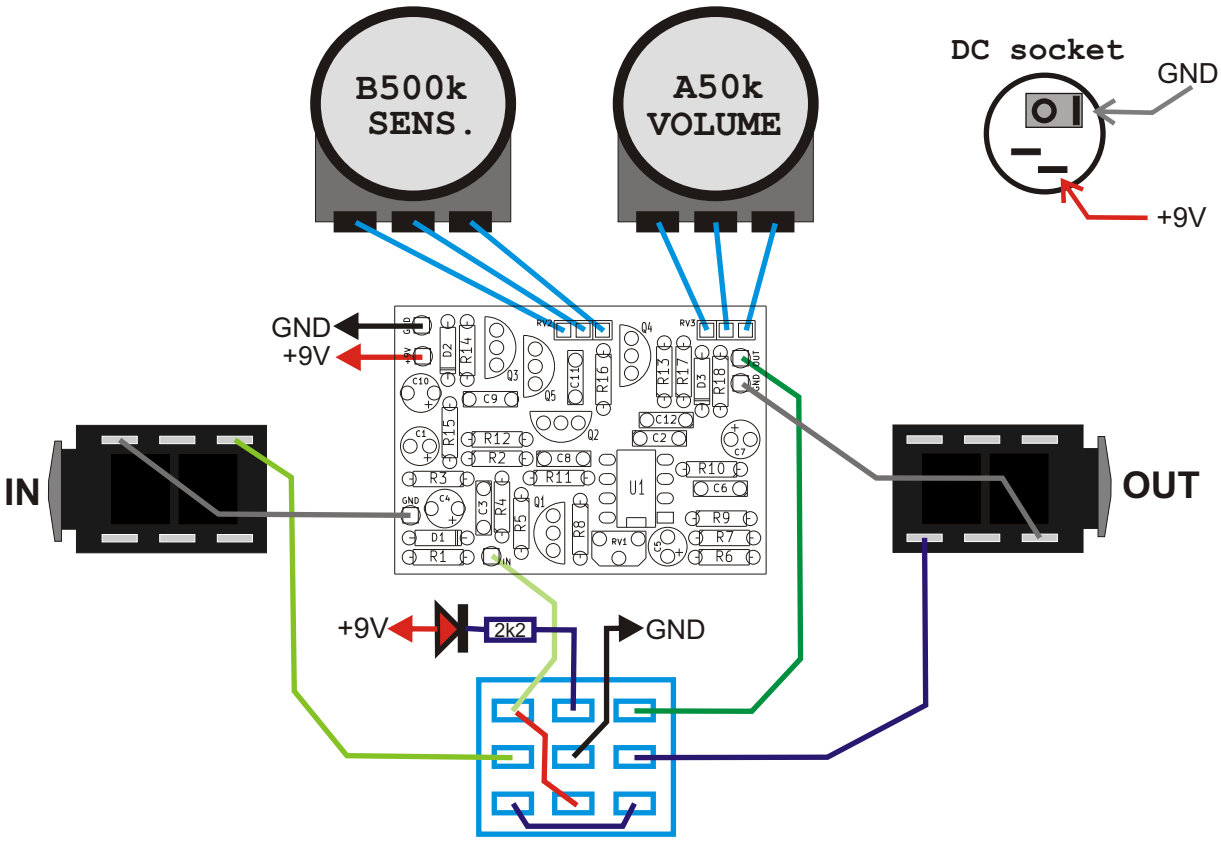


PCB parts placement diagram:



R1	2M2	RV1	2k.trim	D1	1N914
R2	56k	RV2	B500k	D2	1N914
R3	27k	RV3	A50k	D3	1N914
R4	10k			Q1	2N3904
R5	1M	C1	10u	Q2	2N3904
R6	10k	C2	10n	Q3	2N3904
R7	1M	C3	10n	Q4	2N3904
R8	470k	C4	1u	Q5	2N3904
R9	1M	C5	1u	U1	CA3080
R10	15k	C6	10n		
R11	150k	C7	1u		
R12	10k	C8	1n		
R13	10k	C9	10n		
R14	1M	C10	10u		
R15	150k	C11	10n		
R16	27k	C12	47n		
R17	1M				
R18	10k				

Wiring (bottom view):



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

Bill of materials:

Resistors:

2k2	1pcs.	"LED"
10k	5pcs.	"R4 R6 R12 R13 R18"
15k	1pcs.	"R10"
27k	2pcs.	"R3 R16"
56k	1pcs.	"R2"
150k	2pcs.	"R11 R15"
470k	1pcs.	"R8"
1M	5pcs.	"R5 R7 R9 R14 R17"
2M2	1pcs.	"R1"

Potentiometers:

B500k	1pcs.	"RV2"
A50k	1pcs.	"RV3"
2k5 Trim	1pcs.	"RV1"

Other:

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

Capacitors:

10n	5pcs.	"C2 C3 C6 C9 C11"
1n	1pcs.	"C8"
47n	1pcs.	"C12"

Electrolytic capacitors:

1u	3pcs.	"C4 C5 C7"
10u	2pcs.	"C1 C10"

Semiconductors:

CA3080	1pcs.	"U1"
1N914	3pcs.	"D1 D2 D3"
2N3904	5pcs.	"Q1 Q2 Q3 Q4 Q5"
LED	1pcs.	

Resistor color code:

390 x 10Ω = 3,9kΩ

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

Capacitors markings:

471 = 47 x 10^1 pF = 470pF
472 = 47 x 10^2 pF = 4700pF = 4,7nF
473 = 47 x 10^3 pF = 47000pF = 47nF
474 = 47 x 10^4 pF = 470000pF = 470nF

100pF	100p	100	101
220pF	220p	220	221
4,7nF	4n7	0.0047	472
10nF	10n	0.01	103
100nF	100n	0.1	104
220nF	220n	0.22	224
470nF	470n	0.47	474
1000nF	1uF	1u	105