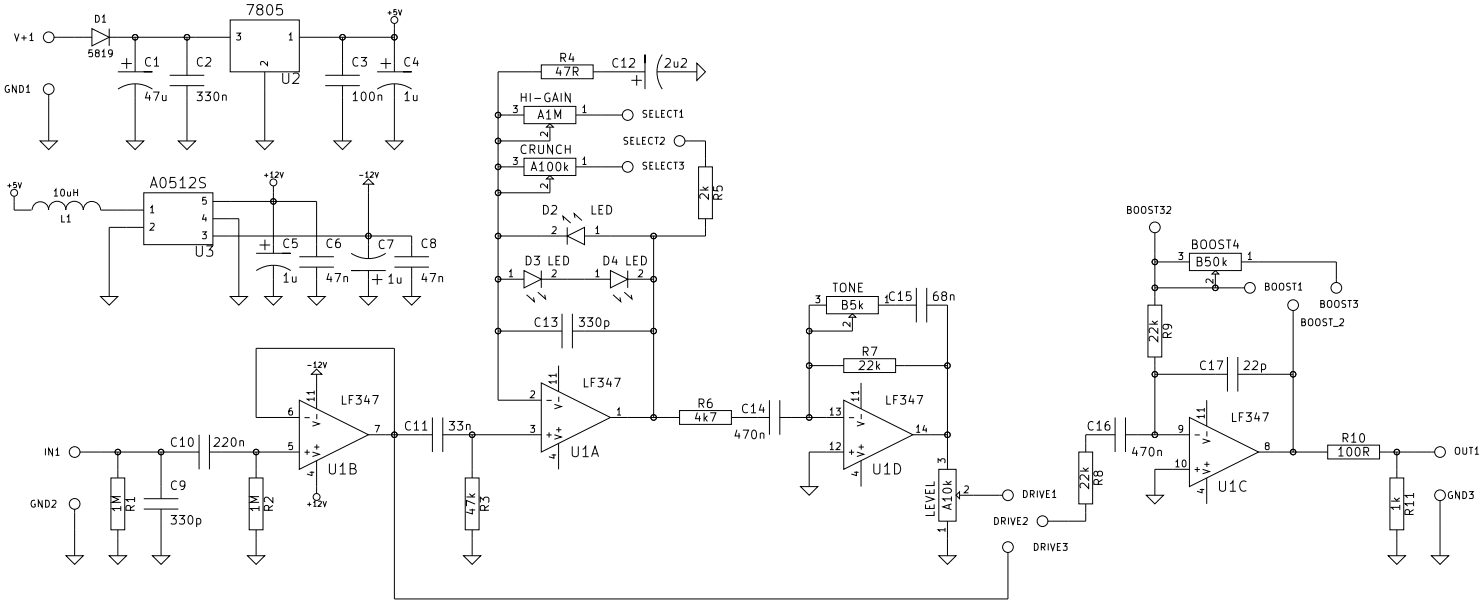
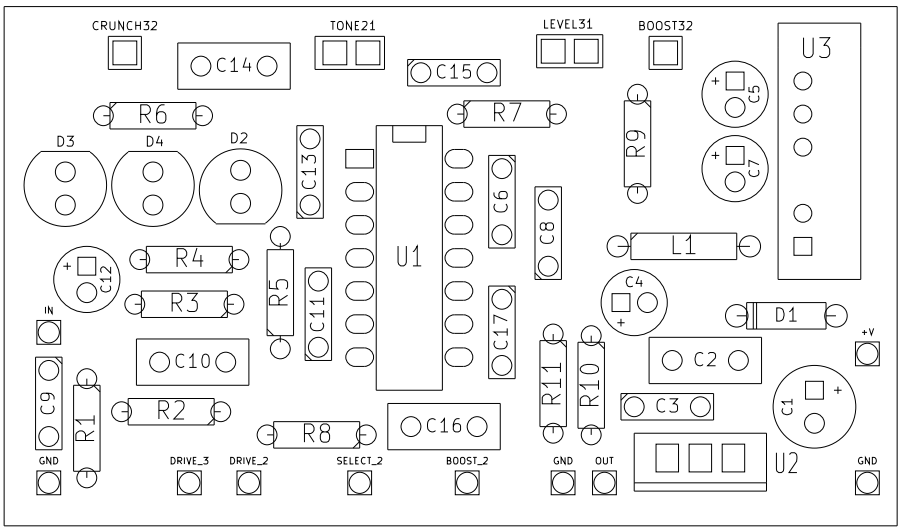
PlexiTone schematic: **28.04.2019**

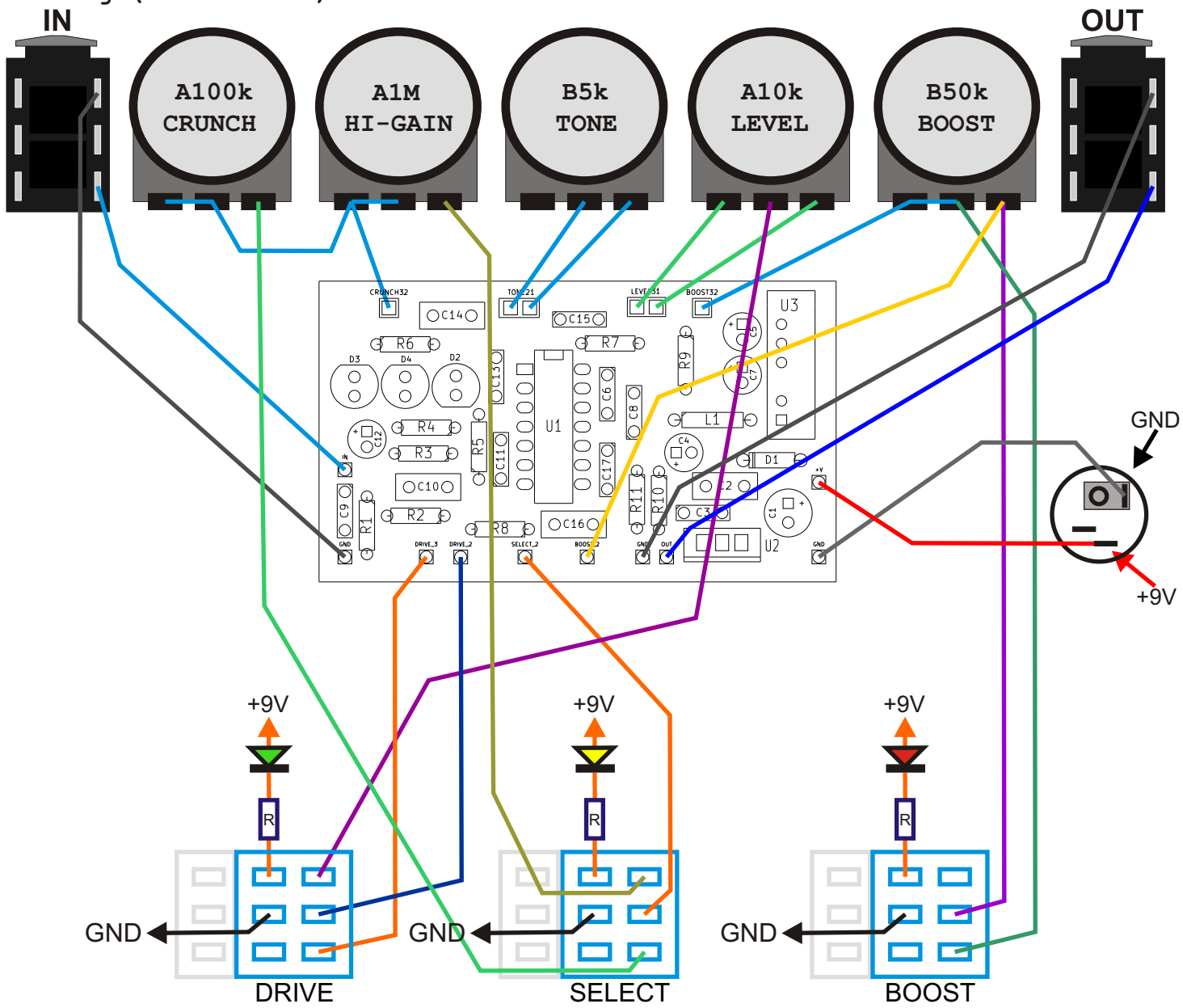


PCB parts placement diagram:



R1 1M	**BOOST**	**B50k**	**C1 47u**	**D1 5819**
R2 1M	**CRUNCH**	**A100k**	**C2 330n**	**D2 RED LED**
R3 47k	**HI-GAIN**	**A1M**	**C3 100n**	**D3 RED LED**
R4 47R	**LEVEL**	**A10k**	**C4 1u**	**D4 RED LED**
R5 2k	**TONE**	**B5k**	**C5 1u**	
R6 4k7			**C6 47n**	**U1 LF347**
R7 22k			**C7 1u**	**U2 7805**
R8 22k			**C8 47n**	**U3 A0512S2WR2**
R9 22k			**C9 330p**	
R10 100R			**C10 220n**	
R11 1k			**C11 33n**	
L1 10uH			**C12 2u2**	
			C13 330p	
			C14 470n	
			C15 68n	
			C16 470n	
			C17 22p	

Wiring (bottom view):



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

Bill of materials:

Resistors:			Capacitors:			Semiconductors:		
470R	1pcs.	"GREEN LED"	22p	1pcs.	"C17"	1N5819	1pcs.	"D1"
510R	1pcs.	"YELLOW LED"	330p	2pcs.	"C9 C13"	7805	1pcs.	"U2"
2k2	1pcs.	"RED LED"	33n	1pcs.	"C11"	LF347	1pcs.	"U1"
47R	1pcs.	"R4"	47n	2pcs.	"C6 C8"	A0512S2WR2	1pcs.	"U3"
100R	1pcs.	"R10"	68n	1pcs.	"C15"	LED 5mm RED	3pcs.	
1k	1pcs.	"R11"	100n	1pcs.	"C3"	LED 3mm (RED/GRN/YEL)	3pcs.	
2k	1pcs.	"R5"	220n	1pcs.	"C10"			
4k7	1pcs.	"R6"	330n	1pcs.	"C2"	Other:		
22k	3pcs.	"R7 R8 R9"	470n	2pcs.	"C14 C16"	Choke 10uH "L1"	1pcs.	
47k	1pcs.	"R3"				Knob	5pcs.	
1M	2pcs.	"R1 R2"	Electrolytic capacitors:			Footswitch DPDT/3PDT	3pcs.	
			1u	3pcs.	"C4 C5 C7"	Jack socket	2pcs.	
Potentiometers:			2u2	1pcs.	"C12"	DC socket 5.5/2.1	1pcs.	
B5k	1pcs.	"TONE"	47u	1pcs.	"C1"			
A10k	1pcs.	"LEVEL"						
B50k	1pcs.	"BOOST"						
A100k	1pcs.	"CRUNCH"						
A1M	1pcs.	"HI-GAIN"						

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