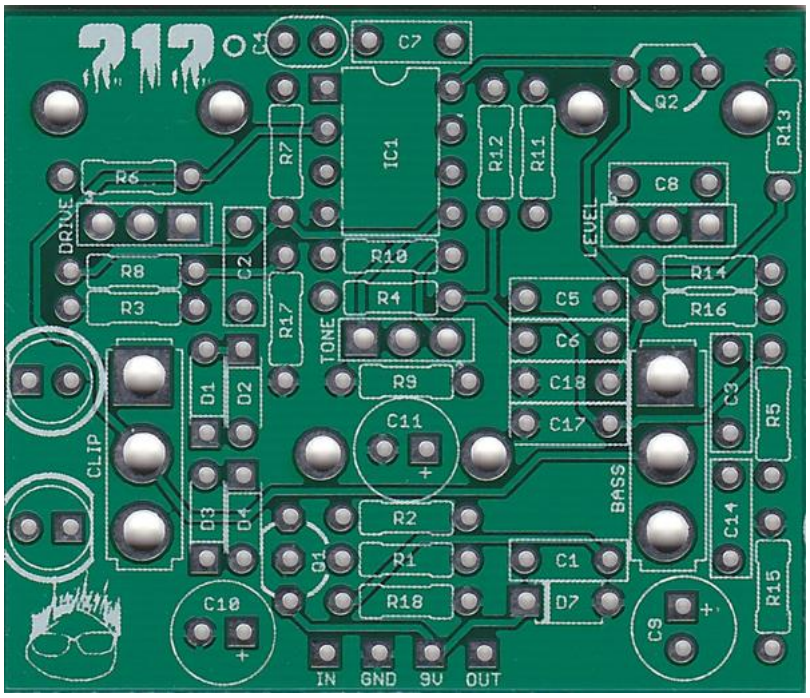


212 Degrees

Build Document

Capacitors

The capacitors for this build can be a bit tricky if you want them to be.

P/N	Value	Type	Notes
C1	22nF	Film Box	
C2	1uF	Film Box/MLCC	The silkscreen is a bit too small for Tayda's film box. It works if you bend the cap on its side (laying on top of the resistor). Otherwise, use an MLCC.
C3	470nF	Film Box/MLCC	The silkscreen is a bit too small for Tayda's film box. It works if you bend the cap on its side (laying on top of the resistor). Otherwise, use an MLCC.
C4	51pF	Ceramic	
C5	150nF	Film Box	I didn't find 150nF film boxes from Tayda, so I used MLCC.
C6	150nF	Film Box	I didn't find 150nF film boxes from Tayda, so I used MLCC.
C7	1uF	Film Box/MLCC	The silkscreen is a bit too small for Tayda's film box. It works if you bend the cap on its side (laying on top of the resistor). Otherwise, use an MLCC.
C8	100nF	Film Box	
C9	10uF	Aluminum Electrolytic/Tantalum	The original schematic had this as a tantalum.
C10	100uF	Aluminum Electrolytic	
C11	47uF	Aluminum Electrolytic	
C14	220nF	Film Box	
C17	100nF	Film Box	
C18	100nF	Film Box	

Diodes

I obtained all of my diodes from Tayda. That's what the layout was setup for.

P/N	Value	Notes
D1	1N4148	
D2	1N4148	
D3	1N4148	
D4	1N4148	
D5	LED5mm	
D6	LED5mm	
D7	1N400x	Polarity protection.

Integrated Circuits

P/N	Value	Notes
IC1	RC4558	I used a JRC4558D.

Transistors

I obtained all of my transistors from Tayda. That's what the layout was setup for.

P/N	Value	Notes
Q1	MPSA18	
Q2	MPSA18	

Resistors

P/N	Value
R1	1k
R2	620k
R3	10k
R4	10k
R5	1k
R6	10k
R7	1k
R8	10k
R9	220R
R10	1k
R11	1k
R12	510k
R13	10k
R14	100R
R15	10k
R16	10k
R17	10k
R18	5M

Potentiometers

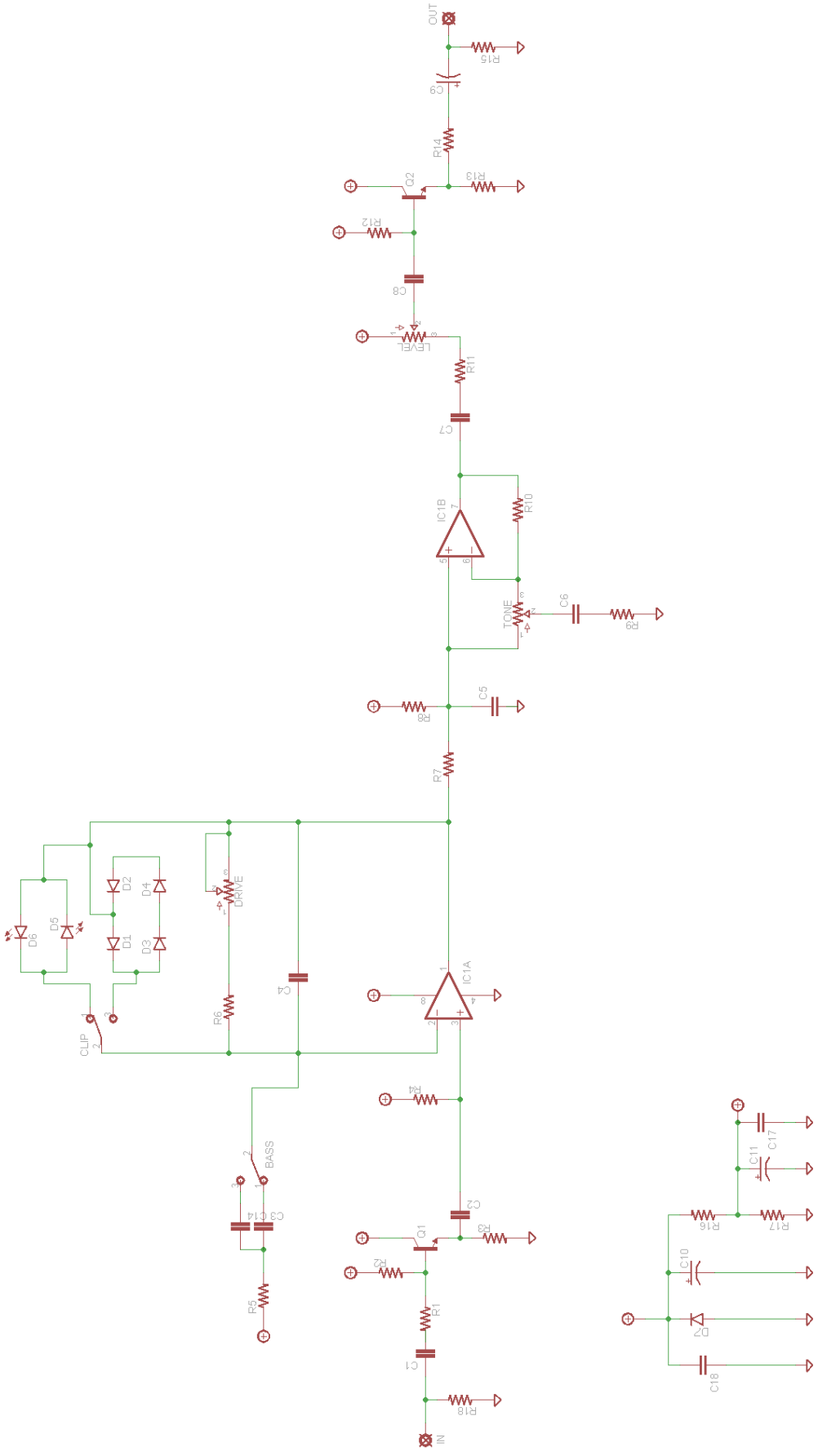
There's a mistake in the v1 of this board. Make sure you swap lugs 1 and 3 on the DRIVE pot.

P/N	Value	Notes
DRIVE	A1M	I recommend this one. You might also consider a B1M if you don't like the sweep.
LEVEL	B100k	I recommend this one.
TONE	B2k	I recommend this one.

Other Parts

I obtained all of these from Tayda. That's what the layout was setup for.

Qty	Value	Notes
1	SPDT ON-ON	I recommend this one.
1	SPDT ON-OFF-ON	I recommend this one.
2	8-pin socket	Use one, if you want, to split in half. Then use each half for the transistors.


OUT
R15
C9
RV4
R13
Q2
R12
C8
LEVEL
RV1
C7
IC1B
R10
TONE
C6
R9
C5
R8
R7
D2
D4
D5
D6
D1
D3
DRIVE
C4
IC1A
R6
CLIP
R4
BASS
C3
C14
R5
C2
Q1
R3
R2
R1
C1
R18
IN
C11
C17
R16
R17
C10
D7
C18