

RE-808 Build Guide v1.0

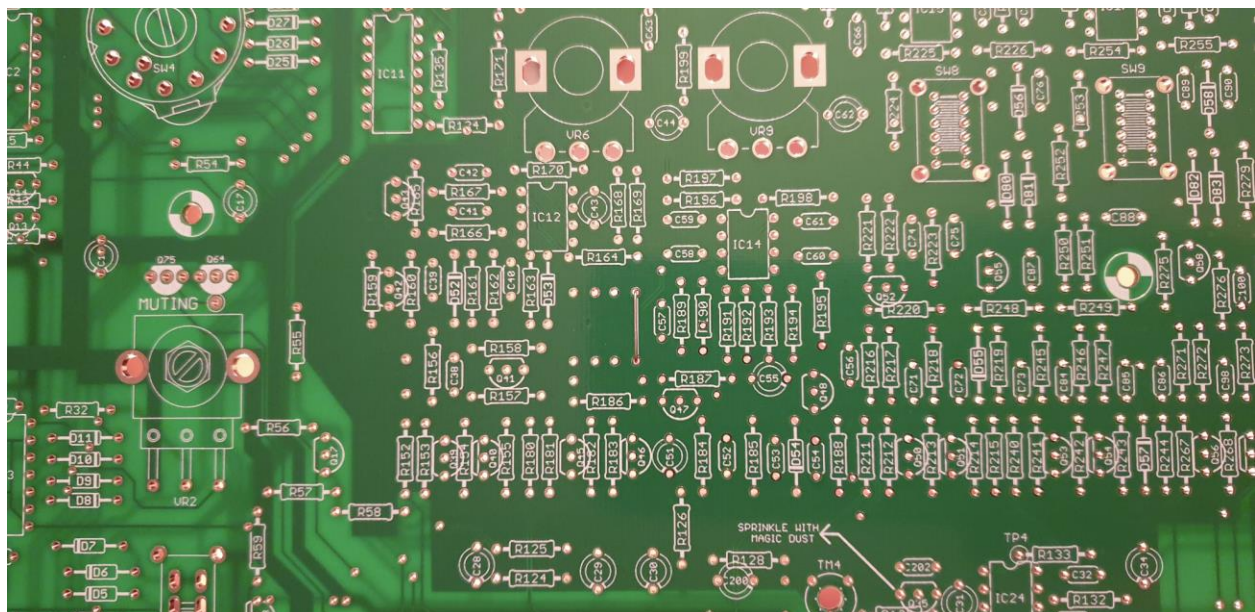
[TOOLS REQUIRED]

- Soldering tools
- Terminal crimper (if you decide to use connectors and headers)
- Flat pliers
- Dremel or small metal file
- Marker Pen
- Small Screwdriver
- Metal Saw

[MAIN BOARD]

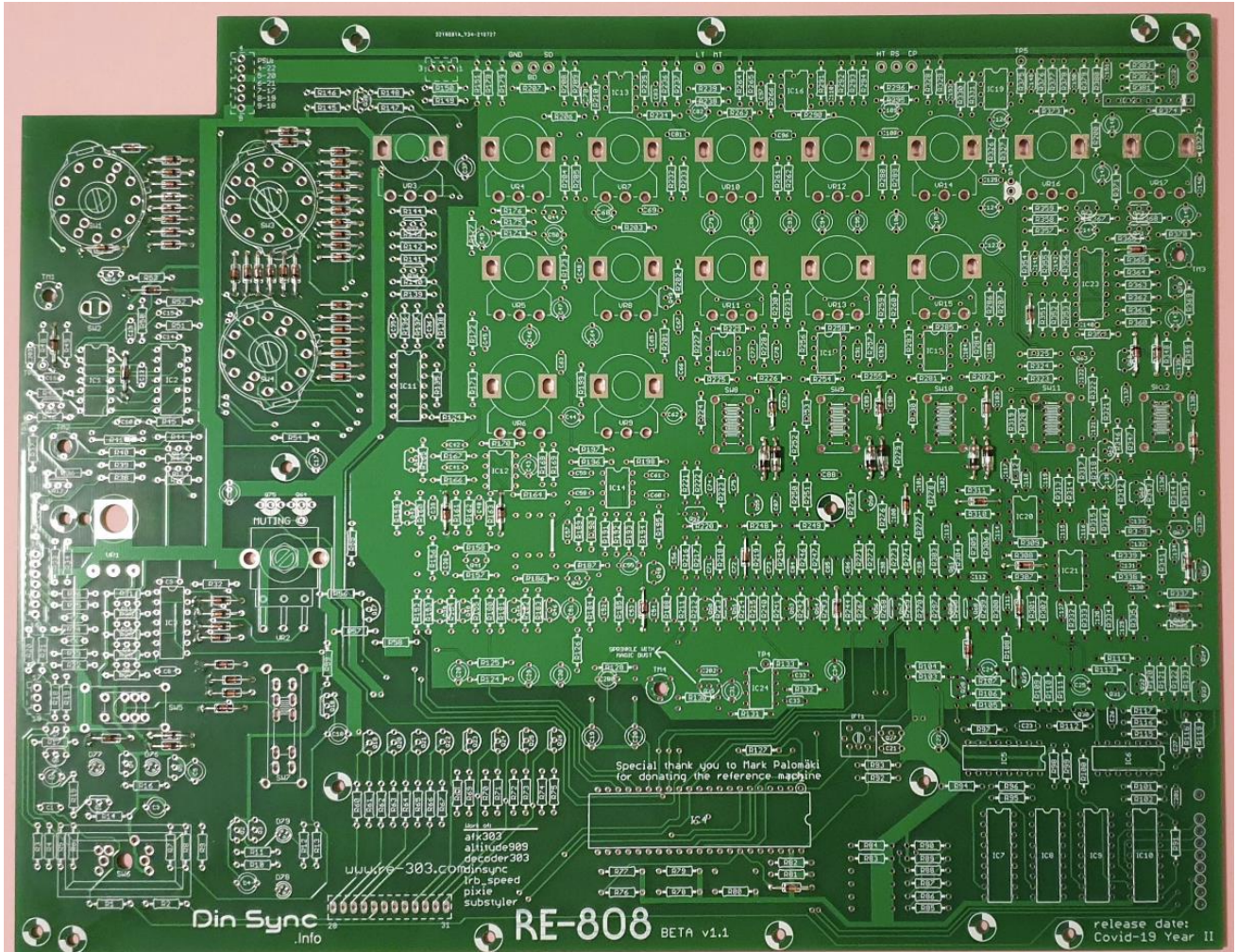
Jumper

1	Wire Jumper
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Diode

6	1S188FM
70	1S2473

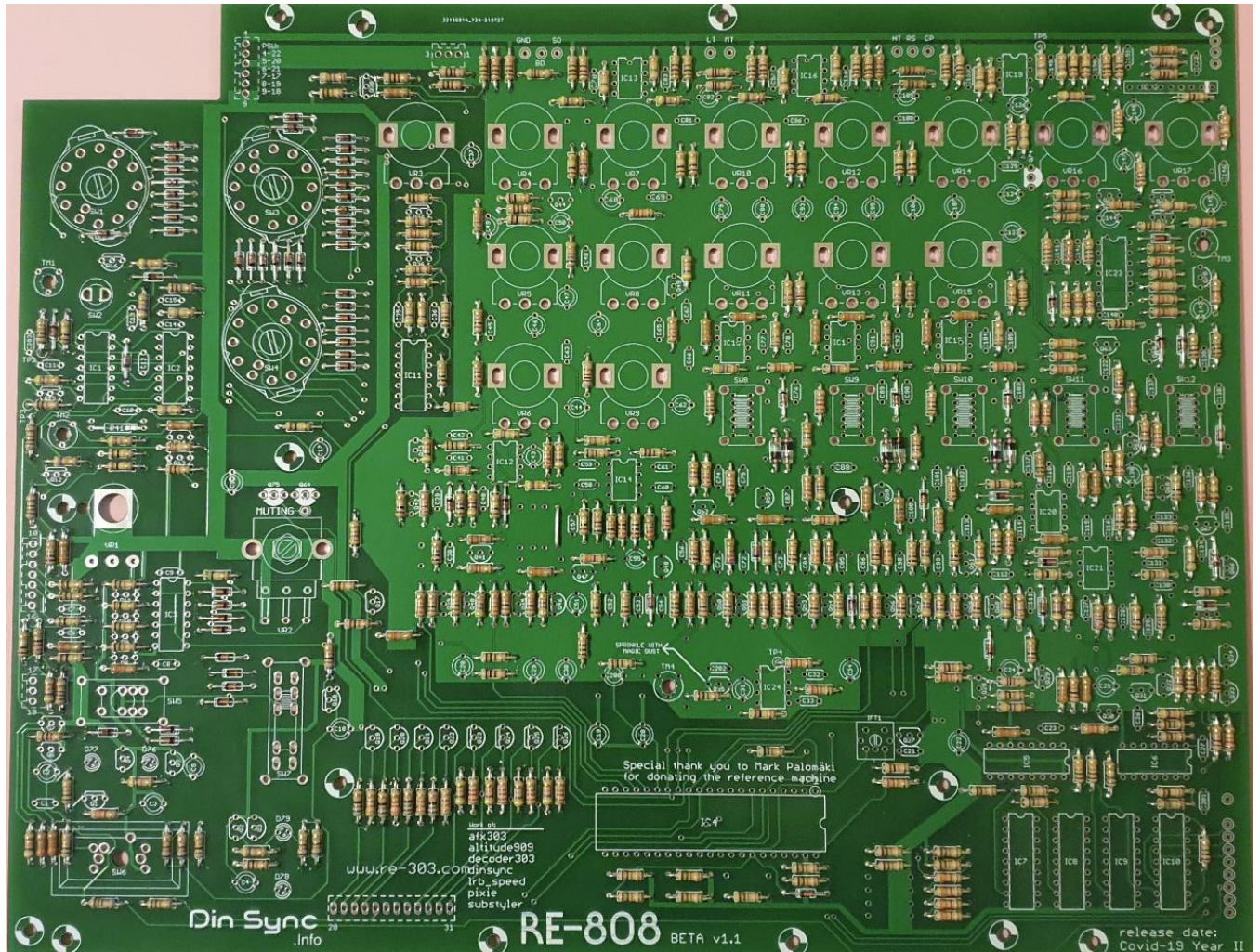


Resistor

1	22
4	68
21	100
2	220
3	330
7	680
23	1k
2	1k5
8	2k2
2	2k7
14	3k3
27	4k7
3	5k6
5	6k8
1	8k2
38	10k
41	15k
32	22k
3	27k
25	33k
1	39k
28	47k
3	68k
3	82k
28	100k
1	150k
5	220k
2	330k
1	390k
14	470k
1	560k
2	680k
8	820k
15	1M
1	1M5
5	2M2

Notes:

According to the Service Notes R200 in the SD section was replaced by a wire. A 10K resistor designated as R200 was added to the CP. The initial design of the RE-808 had both footprints. This caused some confusion during the beta build, so it was decided to remove the footprint for the R200 in the SD circuit, that required C65 to be rotated by 90°. R85, R86, R87, R88, R83, R84, R89, R90, R95, R96, R98, R99 do not need to be mounted with a Pixie CPU



Posistor

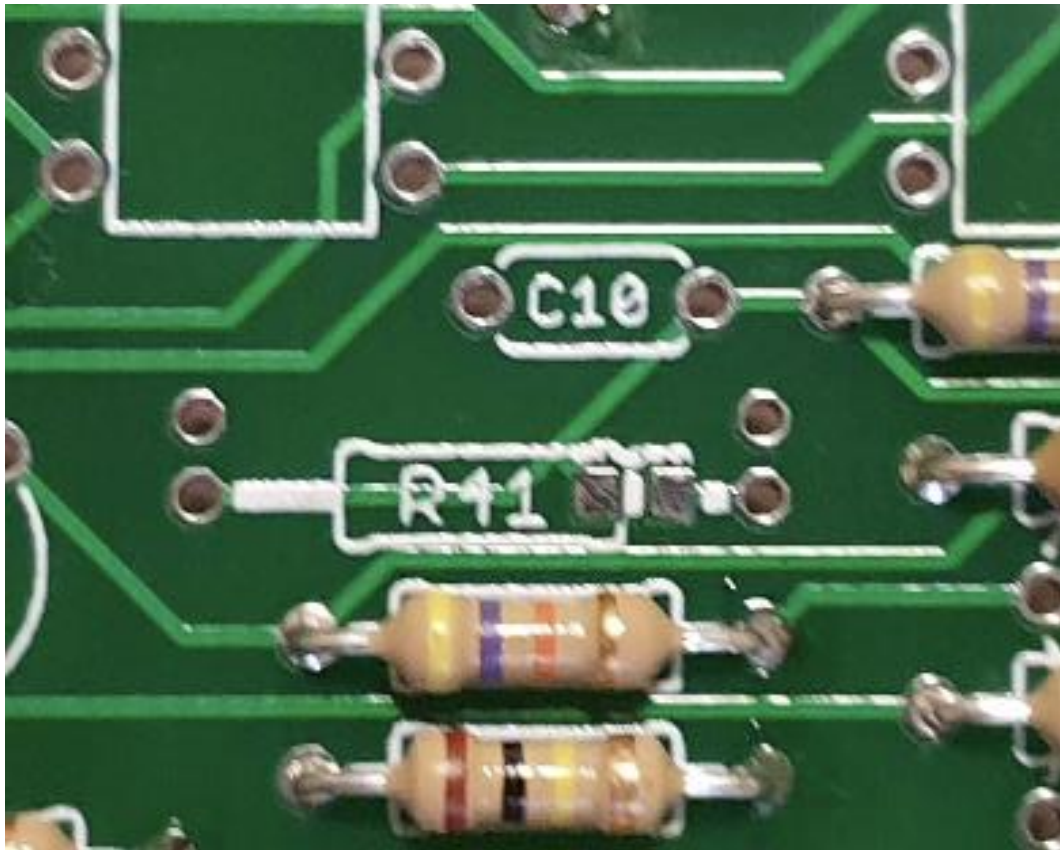
1 560

Notes:

Option 1: Original part 560 ohm PTC

Option 2: 2x 1K PTC in Parallel like in the x0xb0x (use the pads above R41)

Option 3: 0603 smd PTC

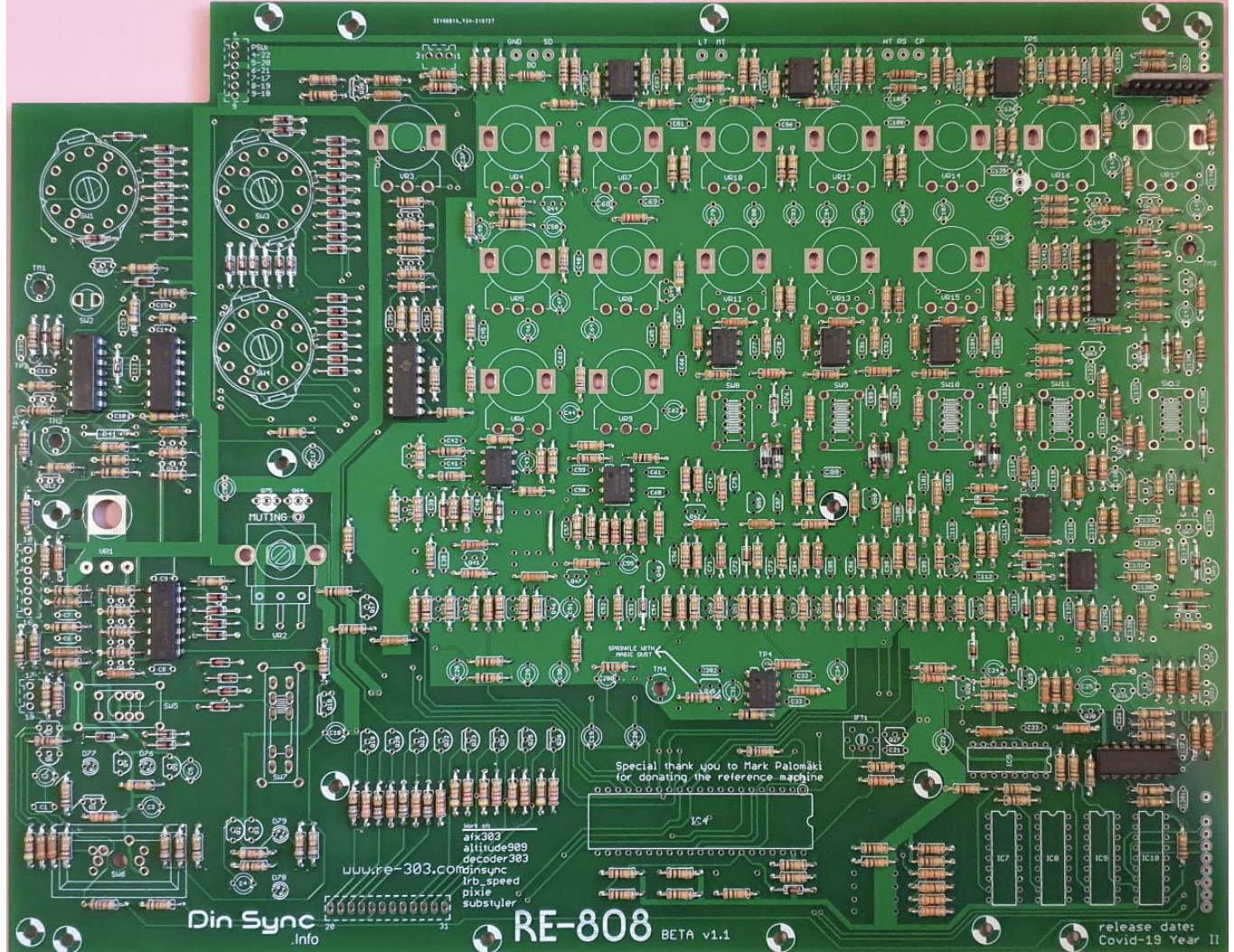


Integrated Circuit

1	MC14001BCP
1	TC4011BP
1	TC4013BP
1	MC14051BCP
1	HD14584B
2	AN6912
1	BA662A
4	UPD444C
1	UPD650
11	μPC4558C

Notes:

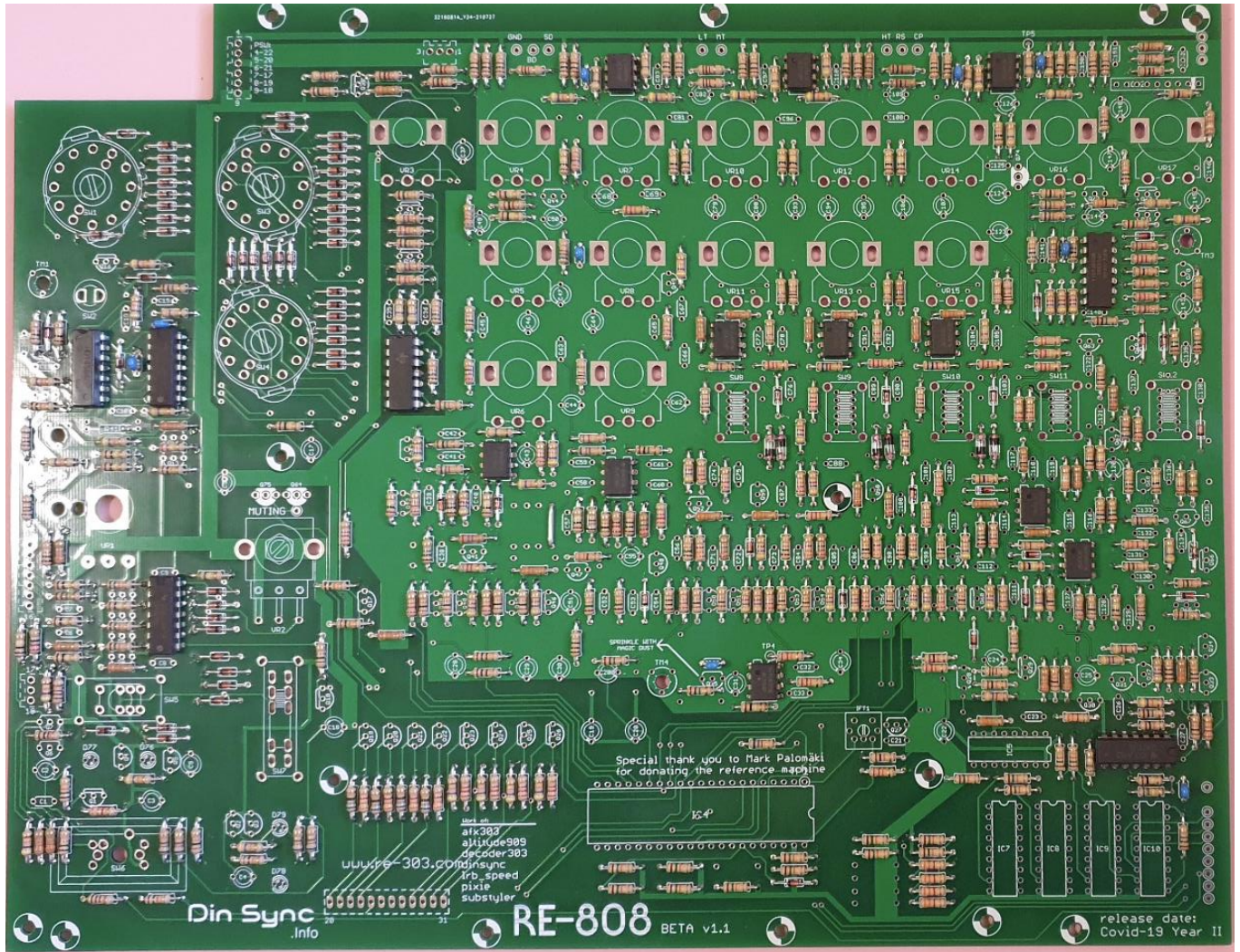
Check the *Pixie CPU installation guide*



Capacitor

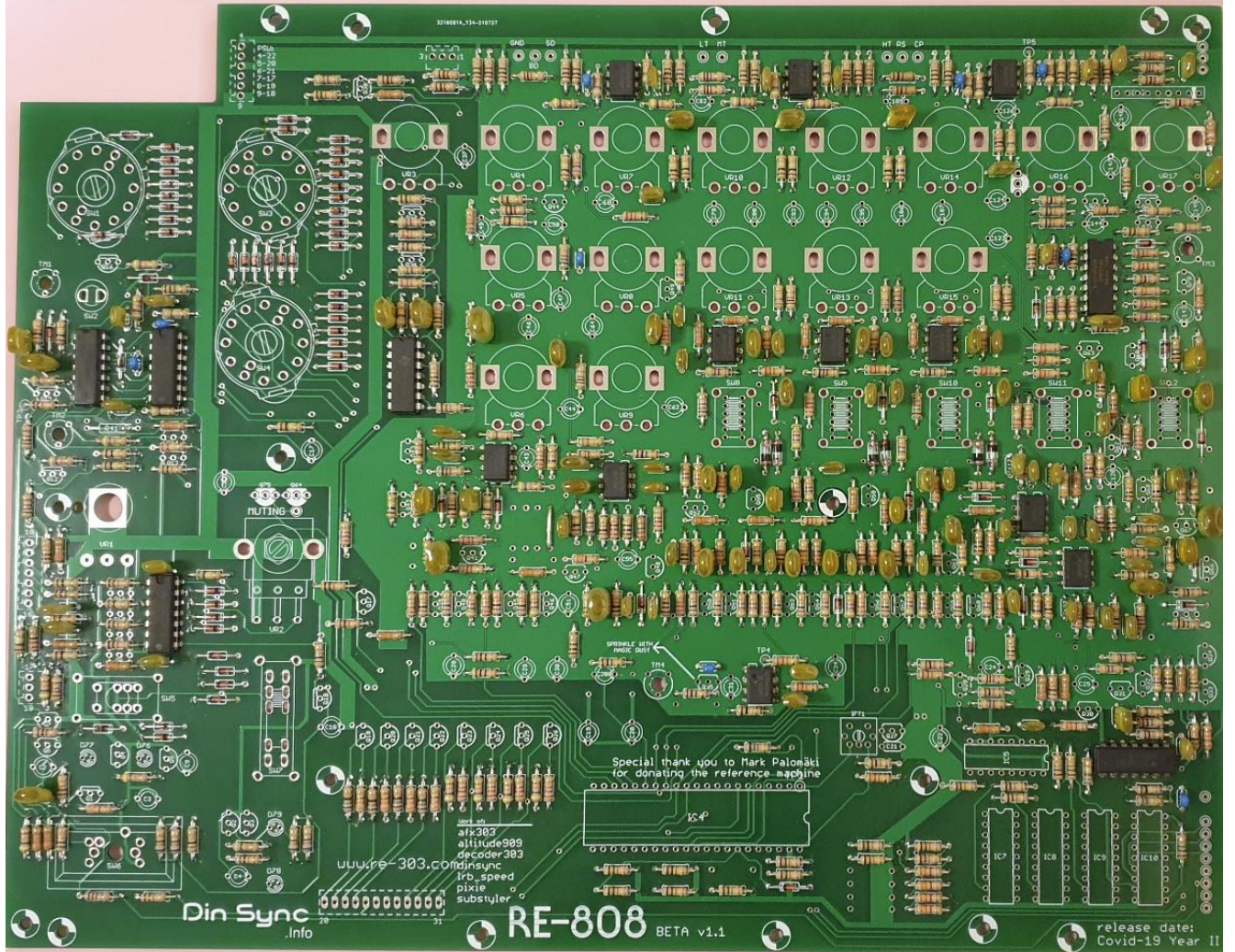
Ceramic

3	22p
6	220p



Polyester

12	1n
3	1n8
3	2n2
4	2n7
1	3n3
7	4n7
1	5n6
3	6n8
1	8n2
11	10n
2	12n
5	15n
4	18n
5	22n
6	27n
7	33n
4	39n
15	47n
2	56n
4	100n



3318081A_75A-01077

Din Sync
.Info

RE-808

BETA v1.1

release date:
Covid-19 Year II

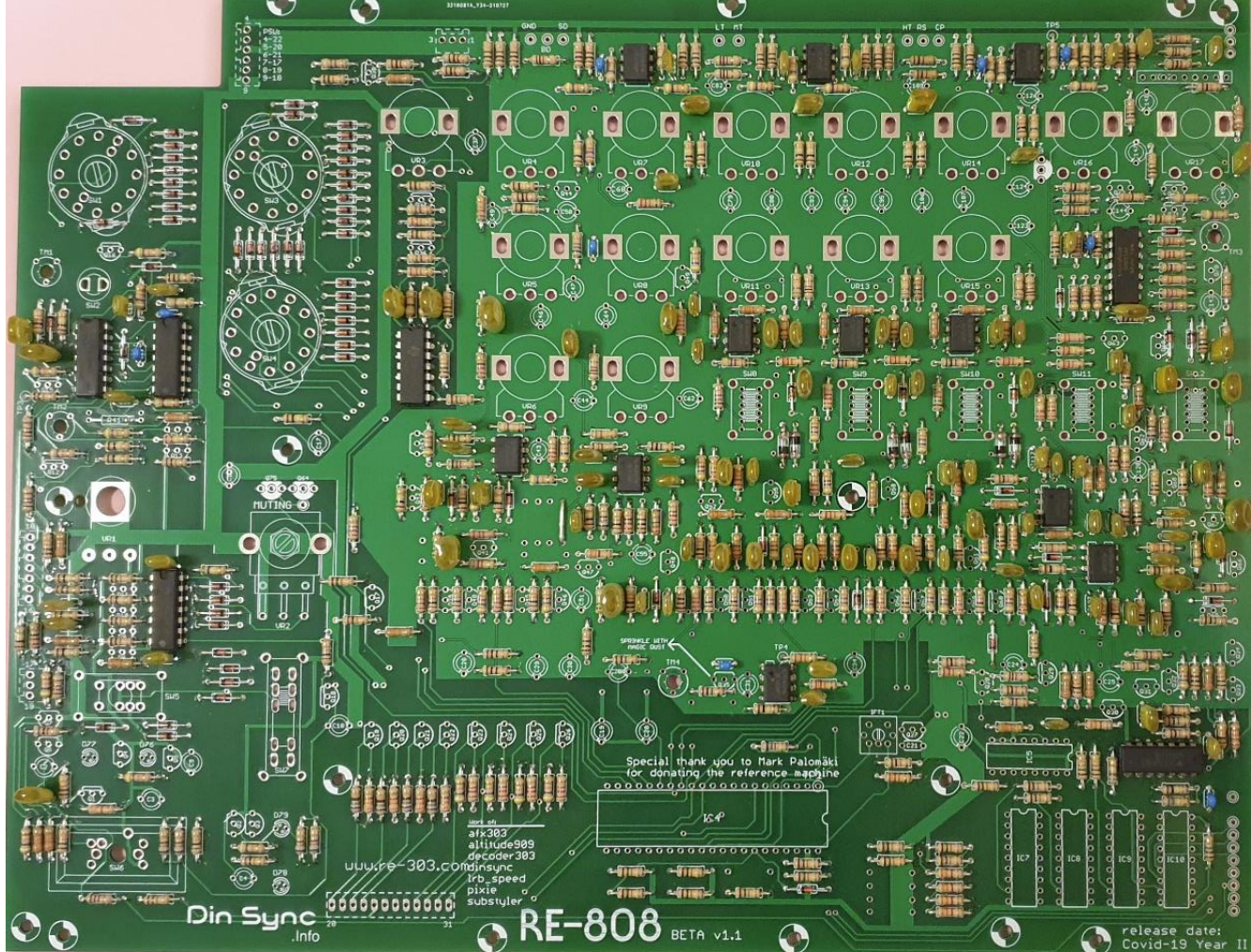
uukps-303.com
altitude909
decoder303
dinsync
lr-speed
pixie
substyler

Special thank you to Mark Palowaki
for donating the reference machine



SPINBLE WITH
PHYSIC DUST

MULTING



Transistor

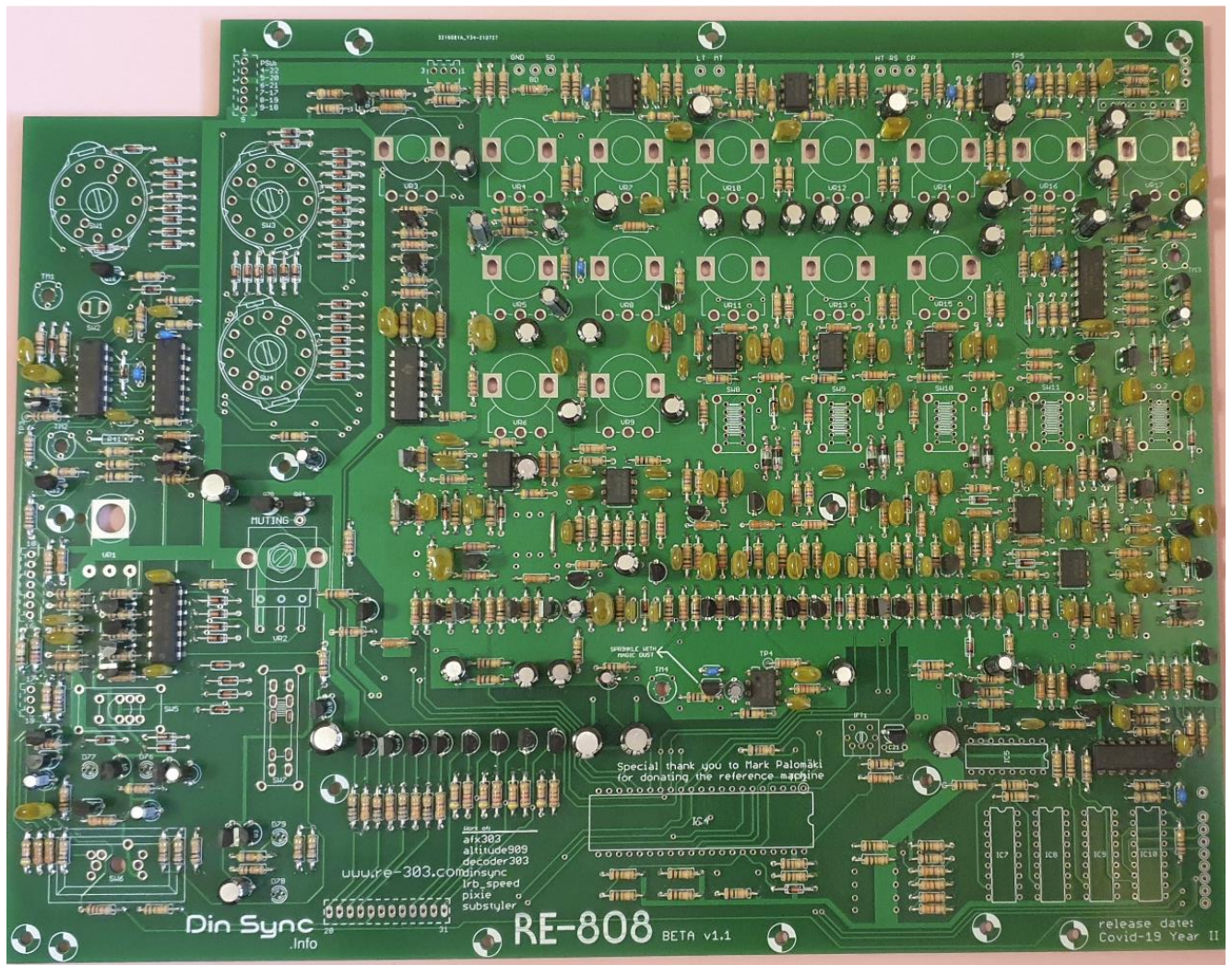
4	2SA1015 (GR) or(Y)
19	2SA733 (P) or (Q)
1	2SC828 (R) or 2SC945 (P) or 2SC536 (F)
48	2SC945 (P) or (Q)
2	2SK30A (GR)
1	2SK30A (Y)

Notes:

The JFET transistors can be replaced with 2SK208 smd parts with the same suffix and using pcb adaptors

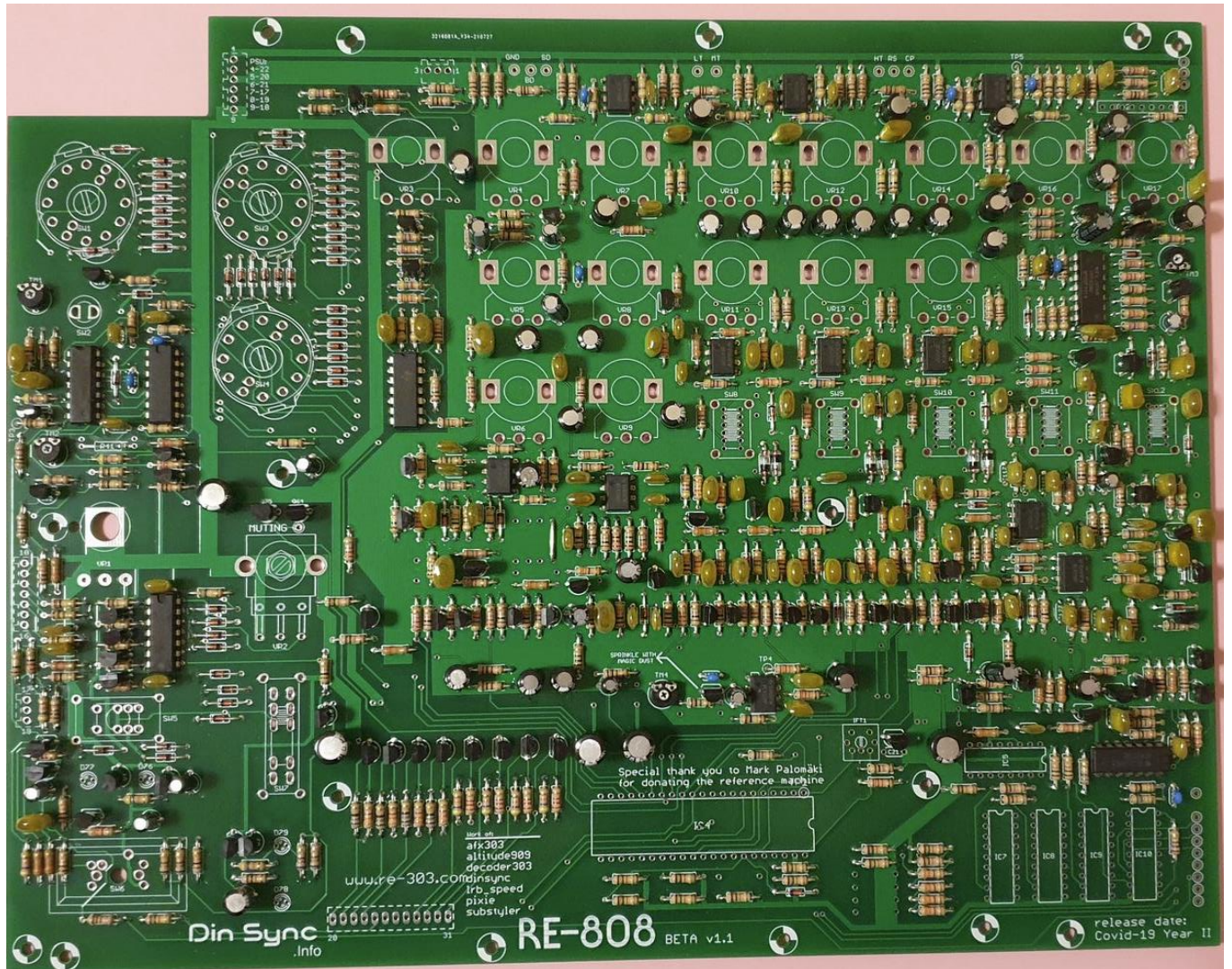
The noise transistor Q35, must be selected according to your Religion.

The 2SC828 magic transistor is a myth.



Trimmer

1	100kB
2	10kB
1	22kB

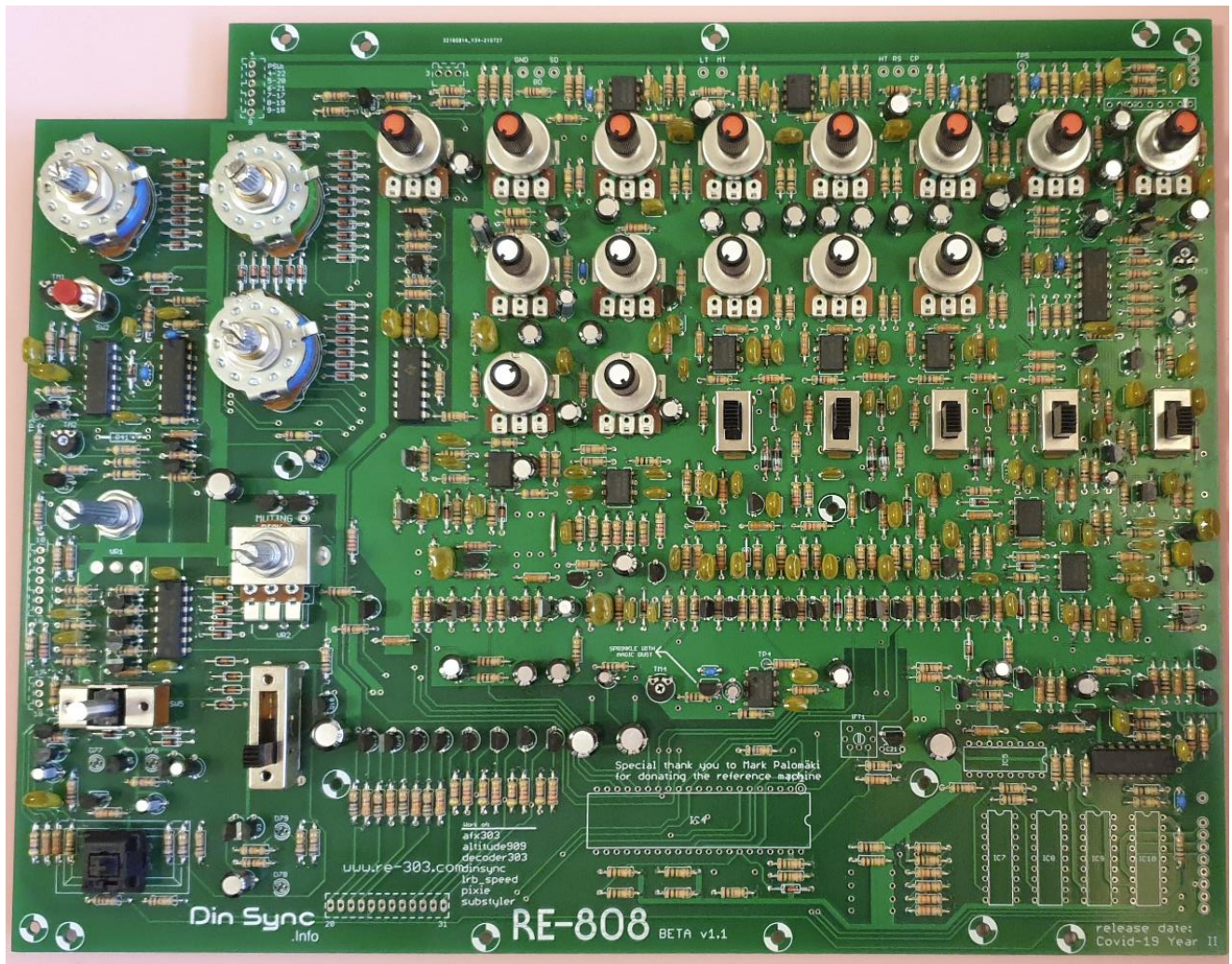


Switch

1	DS102 #44
1	KED10001
5	MSS42_SW_4PDT
1	SRM101C
2	SRM1026
1	SLE62301
1	SQPR24P22S

Notes:

Check the tutorial on how to convert the 6 Rotary Switches in this list to make the 3 used in the RE-808.



[VOICING BOARD]

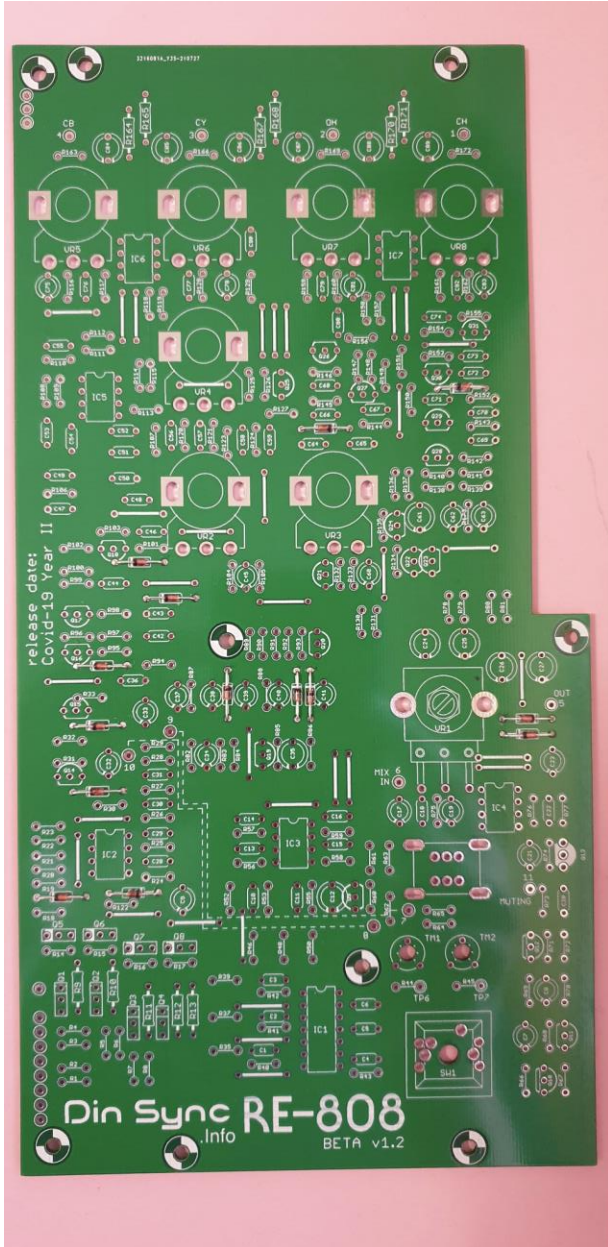
Jumper

Notes:

No jumper wires required in this board, they are all in the top layer

Diode

14	1S2473
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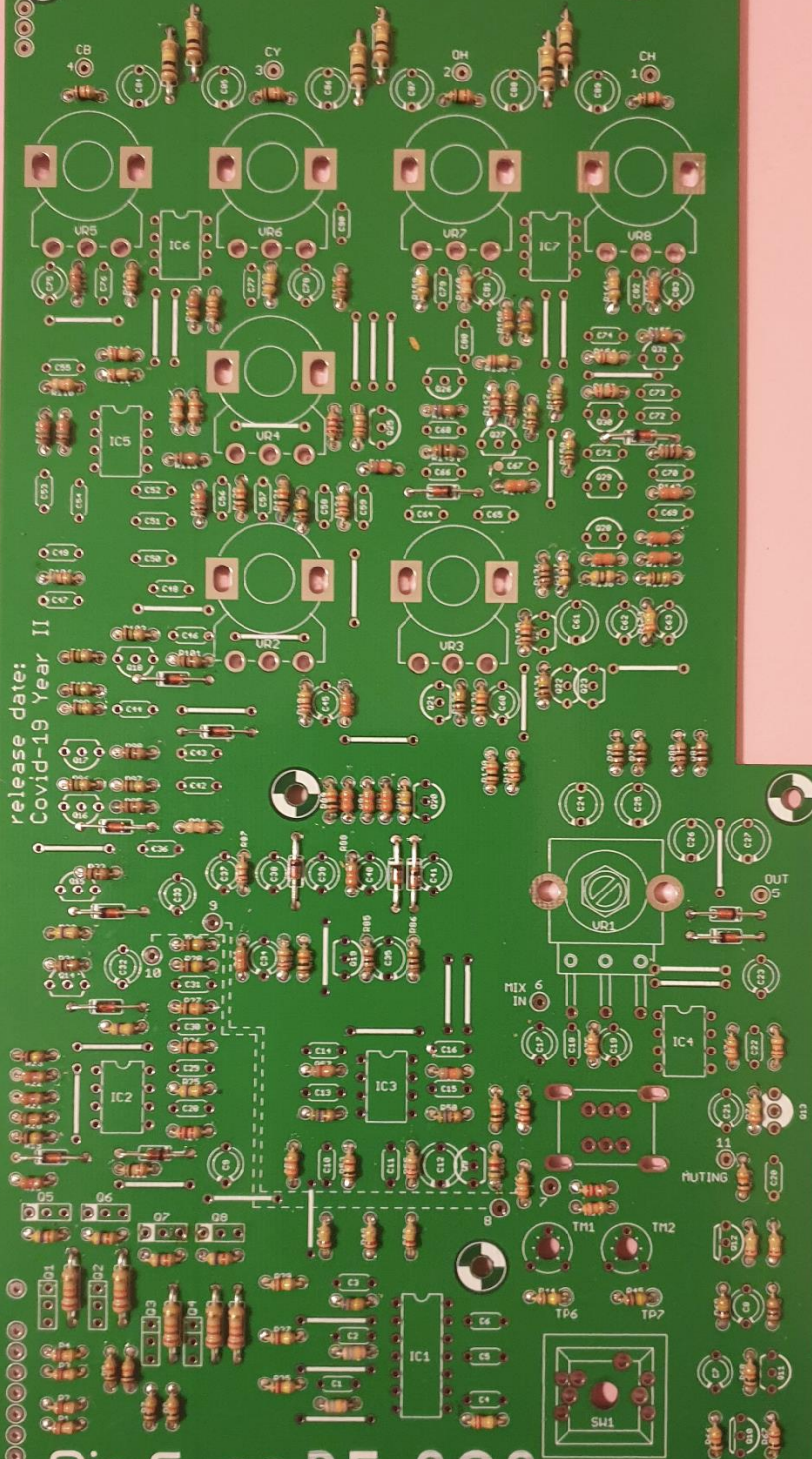


Resistor

15	100
6	100
2	470
2	560
7	1k
4	2k2
2	2k7
3	3k3
4	4k7
1	5k6
1	6k8
1	8k2
17	10k
2	15k
4	18k
18	22k
5	22k
17	33k
5	39k
3	47k
2	68k
3	82k
9	100k
6	120k
1	150k
3	220k
2	330k
7	470k
2	560k
1	680k
11	1M

3216081A_135-210727

release date:
Covid-19 Year II

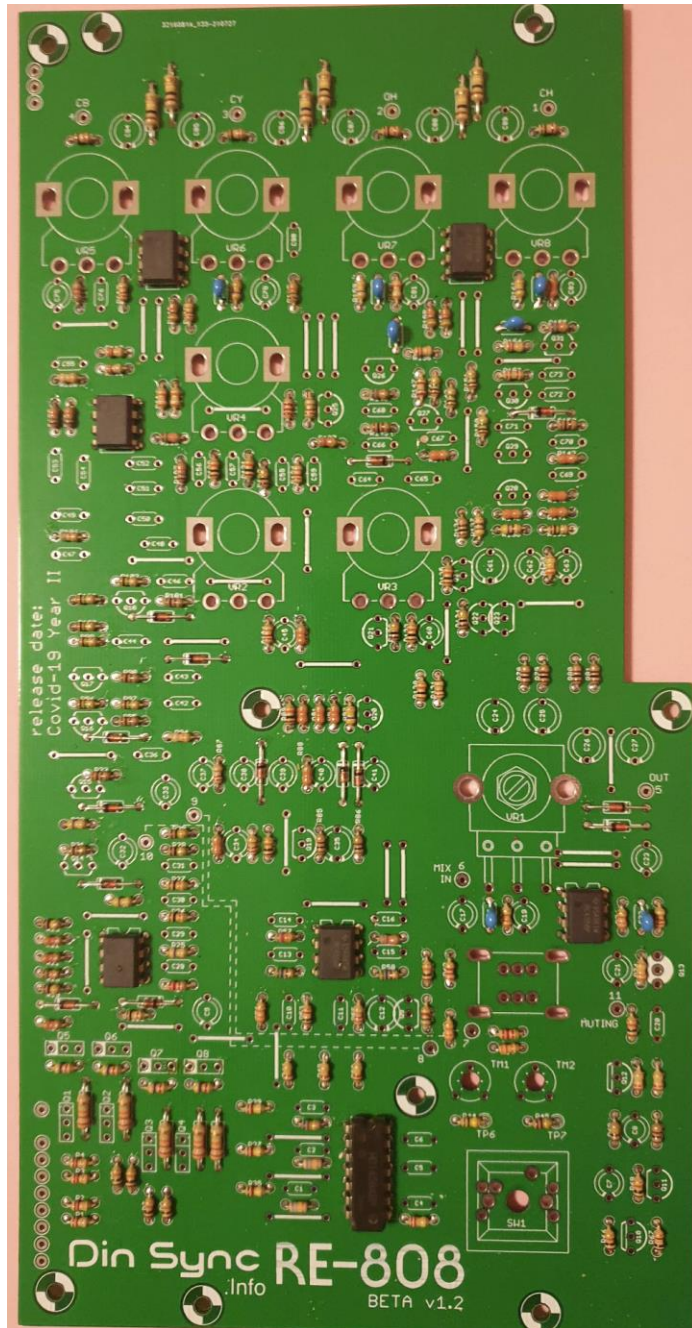


Din Sync RE-808
 .Info BETA v1.2

Capacitor

Ceramic

5	220p
2	470p



Polyester

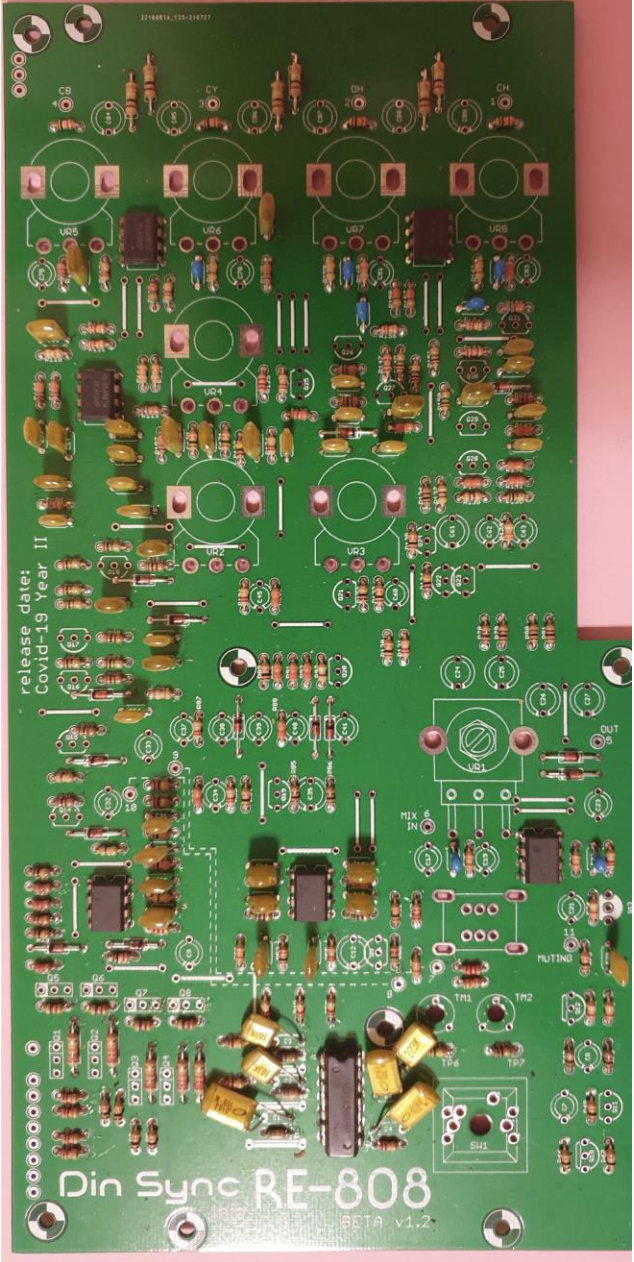
8	1n
12	1n5
2	2n2
6	3n3
2	6n8
7	10n
3	18n
7	22n

Notes:

Capacitors C1 to C6 need to be bended to allow space for the switchboard

It is better if they are bended down like this image and not like the following images, where they are bended up and almost on top of the trimmer holes.





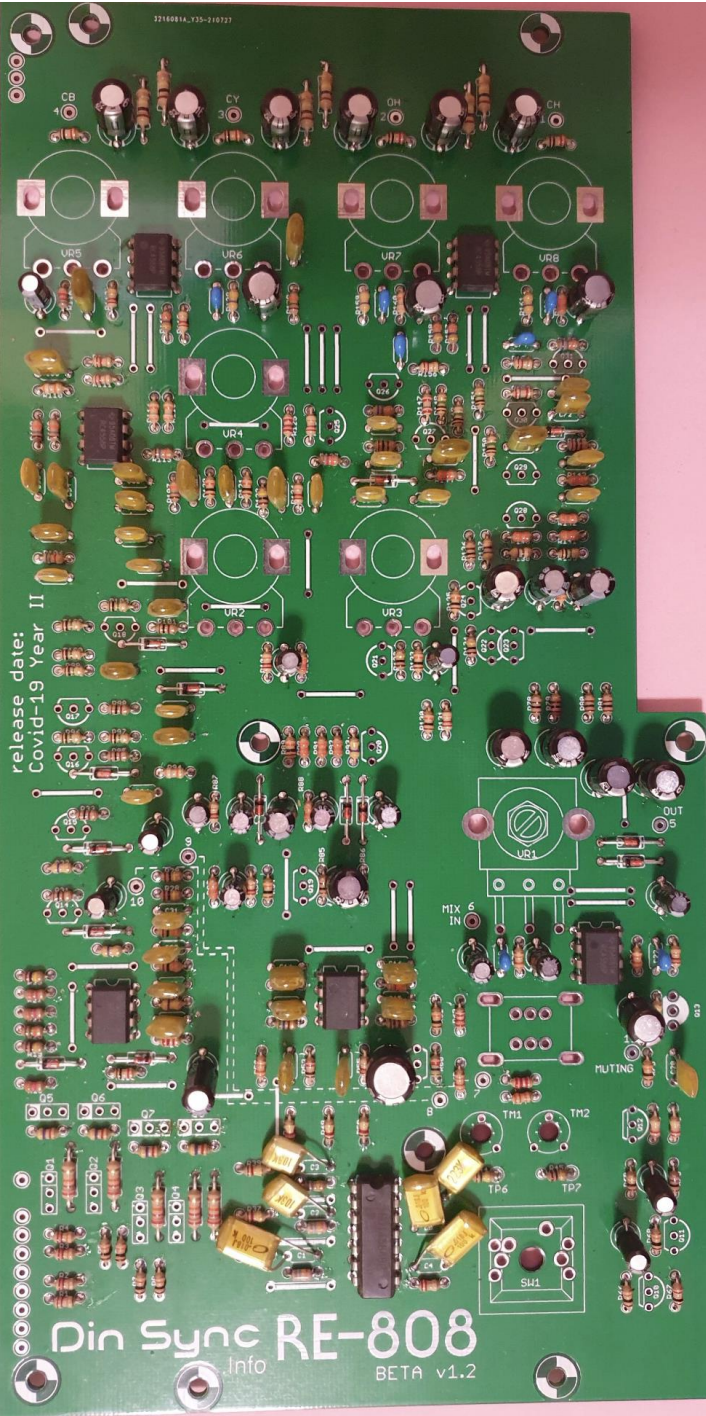
Electrolytic

4	0.47uF/50V
8	1uF/50V
4	2.2uF/50V
3	10uF/16V
4	33uF/6.3V
12	47uF/16V
1	100uF/6.3V

72160916_135-110727

release date:
Covid-19 Year II

Din Sync RE-808
Info BETA v1.2



Transistor

2	2SA733 (P) or (Q)
20	2SC945 (P) or (Q)
4	2SC2021 (R) or (Q) or (S)
4	2SA937 (R) or (Q) or (S)
1	2SK30A (Y)

Notes:

The JFET transistor can be replaced with 2SK208 smd parts with the same suffix and using pcb adaptors

The 2SC2021 and 2SA937 can be replaced with the 2SC945 and 2SA733. Be sure there is enough clearance for the switchboard, 7mm.

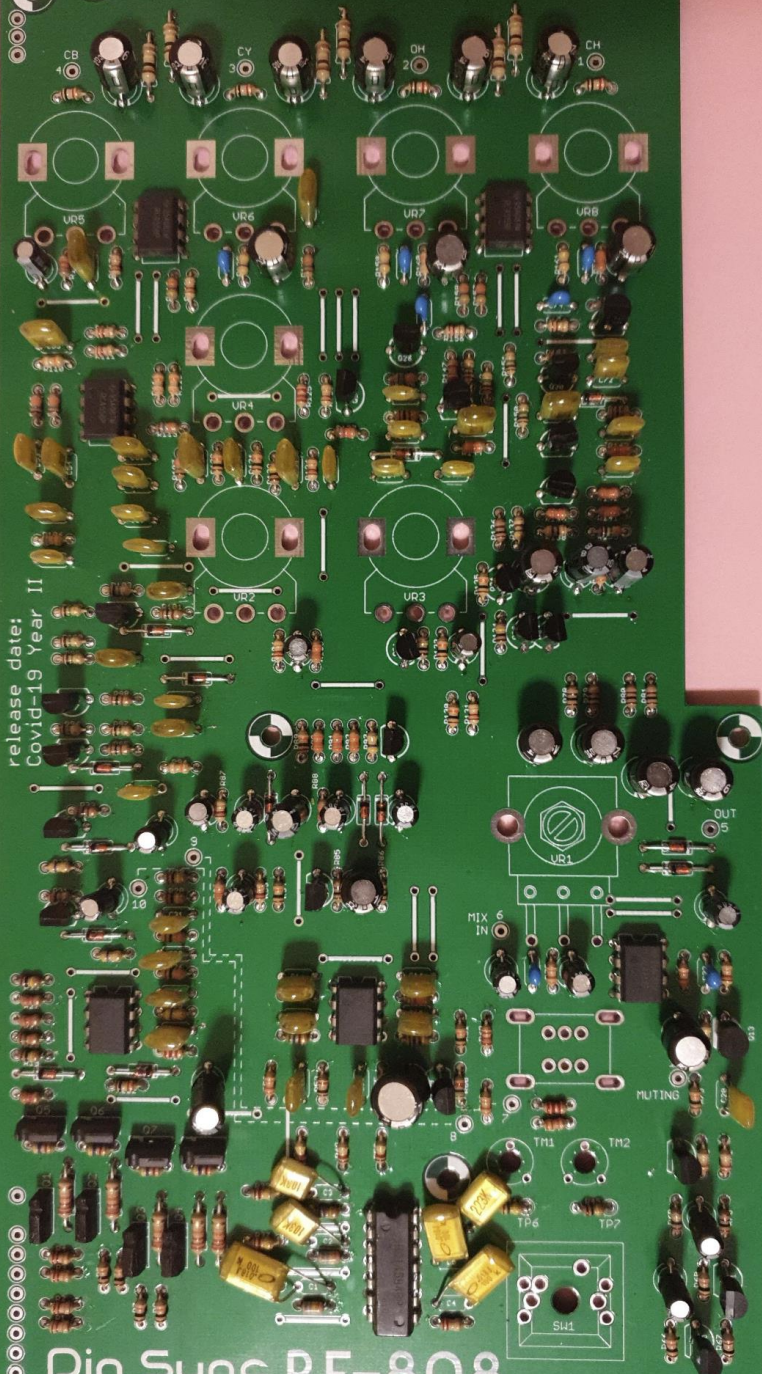
3214081A_125-210727

release date:
Covid-19 Year II

Din Sync RE-808

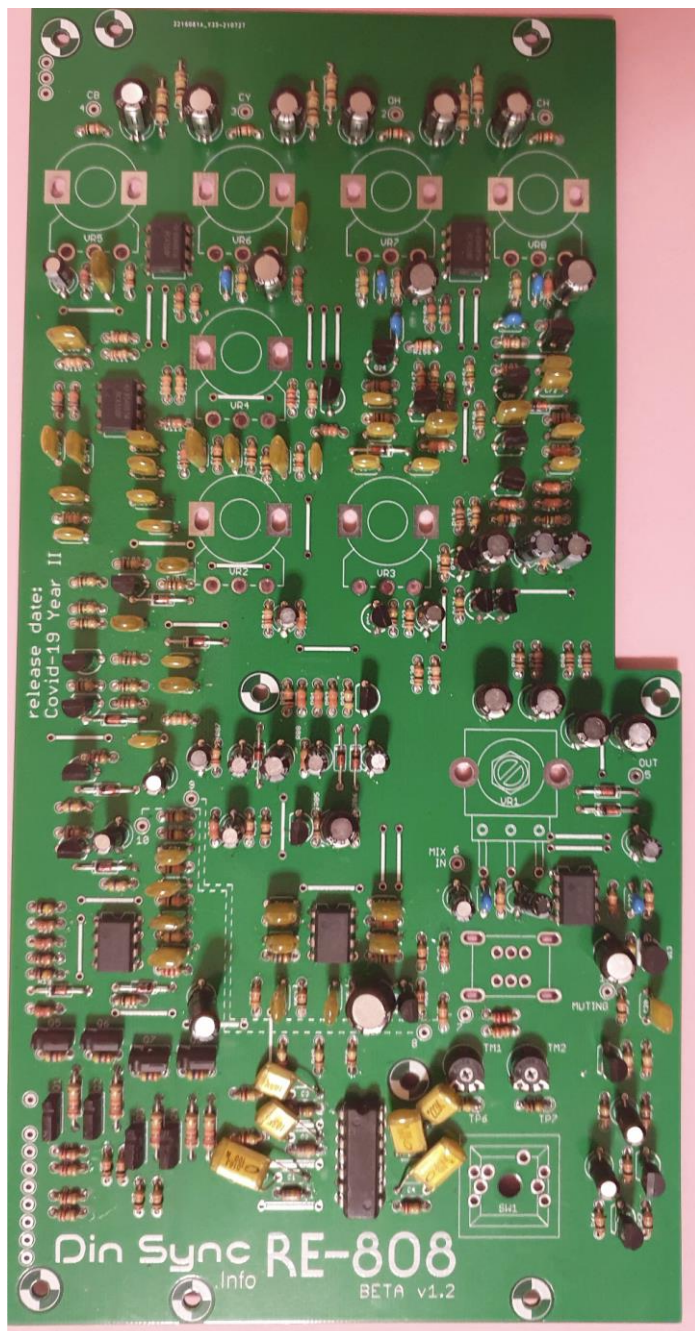
Info

BETA v1.2



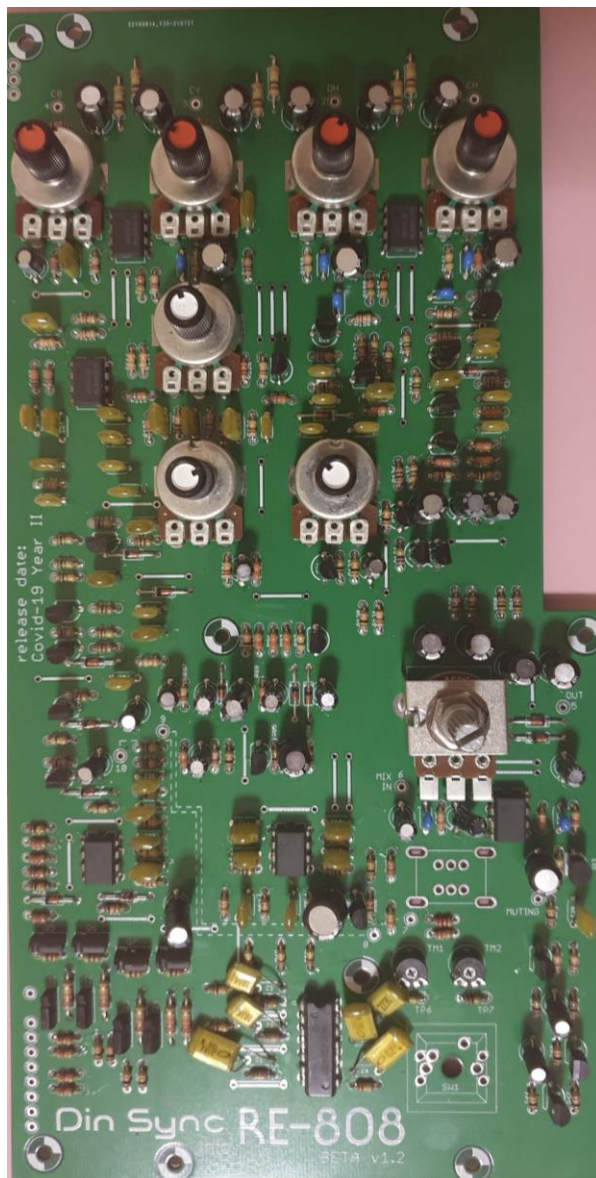
Trimmer

2	220k
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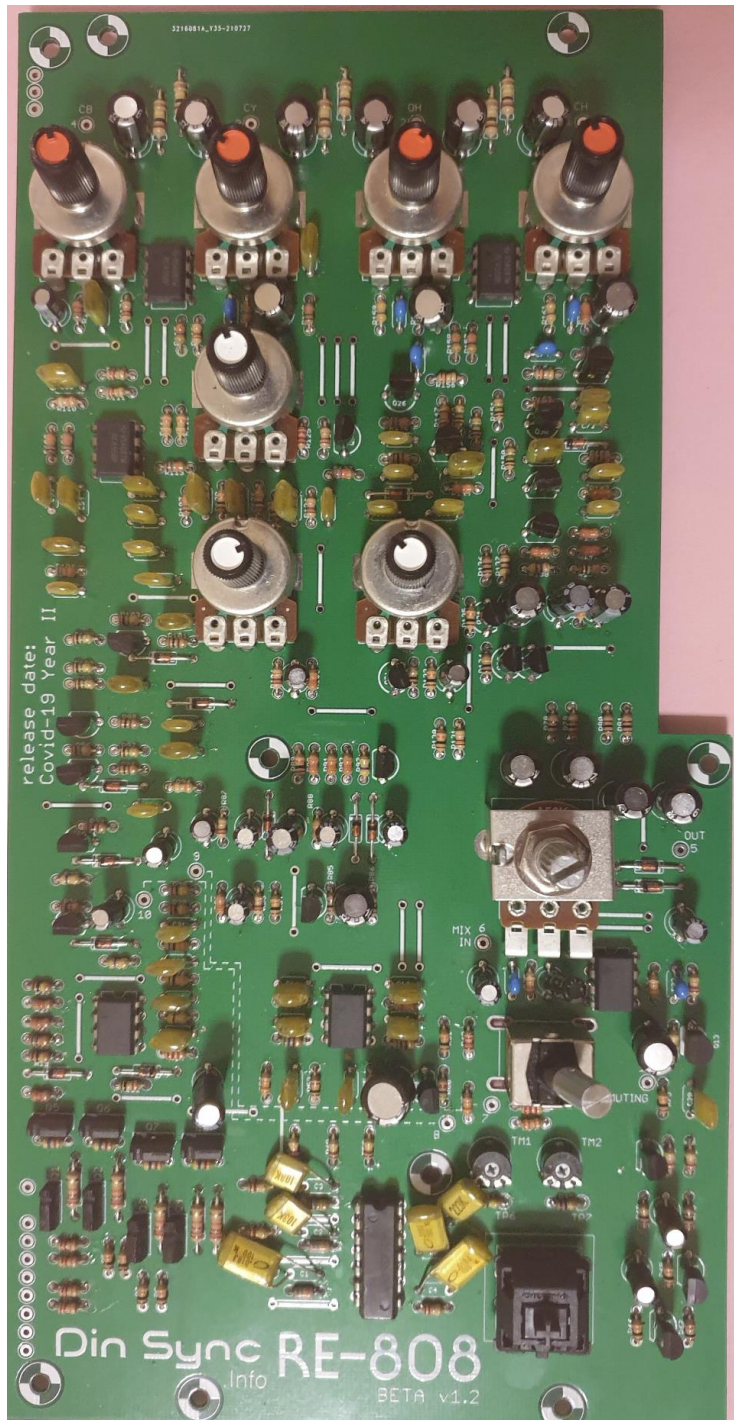
Potentiometer

1	5kA
1	20Kb
3	100kA
2	2MB
1	50kA
1	Pot Bracket



Switch

1	KED10903
1	SLP62208



[SWITCH BOARD]

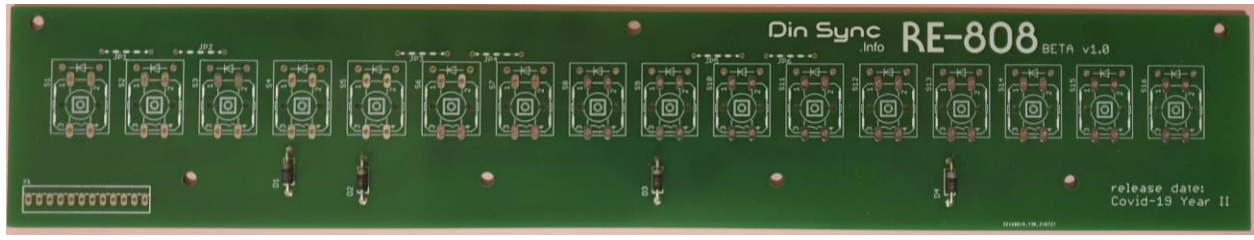
Jumper

Notes:

No jumper wires required in this board, they are all in the top layer

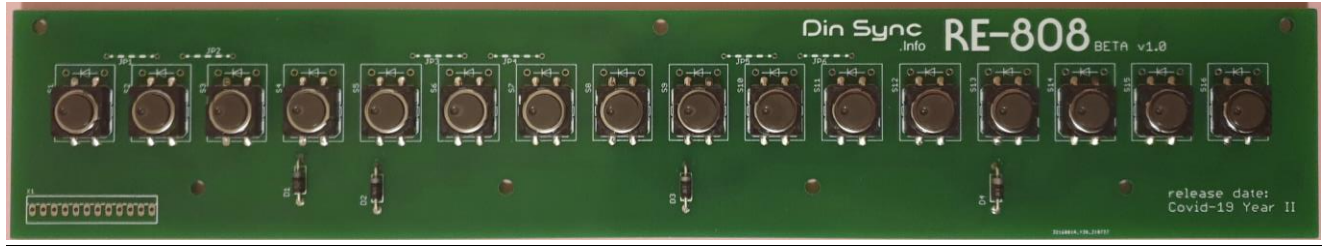
Diode

4	10E-2
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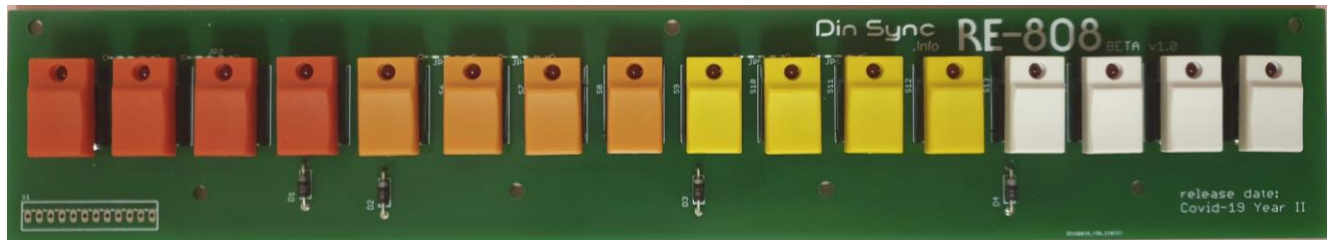
Switch

16	SKHCBFA010
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LED

16	TLLG4400
16	Switch Actuator
4	N180
4	N168
4	N169
4	N167



The switch actuators need to be in place when you solder the leds.

[JACKS A BOARD]

Jacks

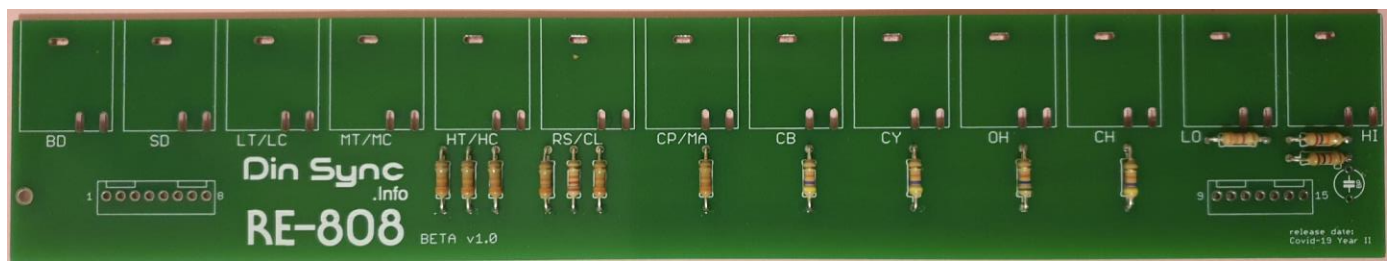
5	SG7622
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[JACKS B BOARD]

Resistor

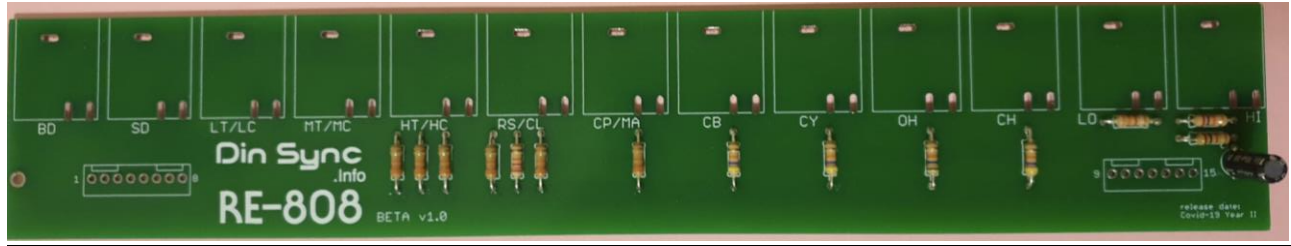
1	1k
1	3k3
1	22k
1	27k
6	33k
3	47k
1	56k



Capacitor

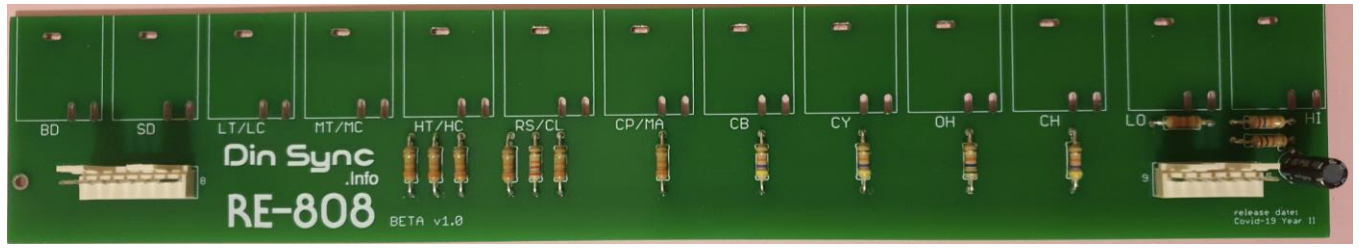
Bipolar

1	10uF/25V BP
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Header

1	5045-07A
1	5045-08A



Jacks

13	SG7622
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