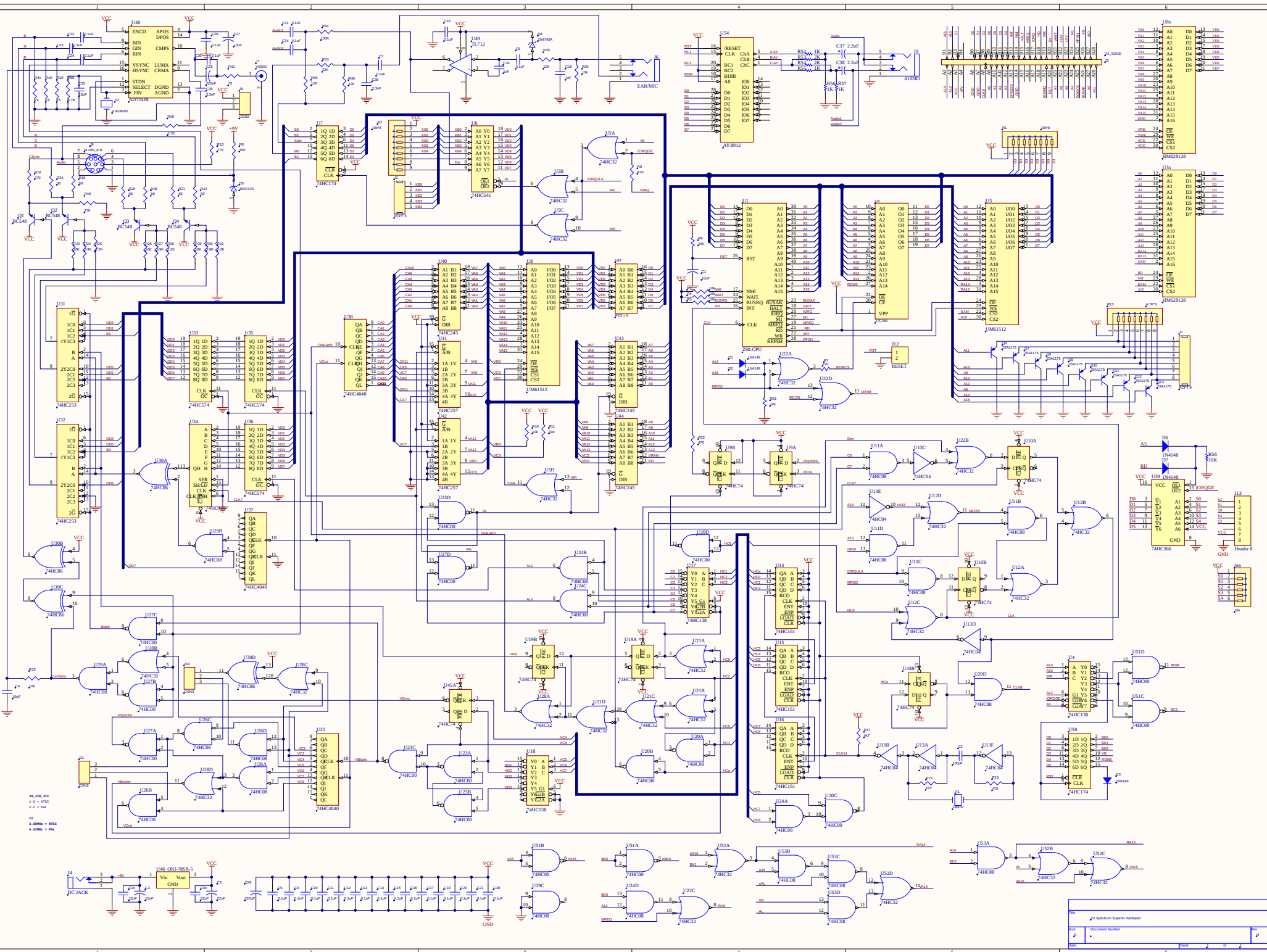
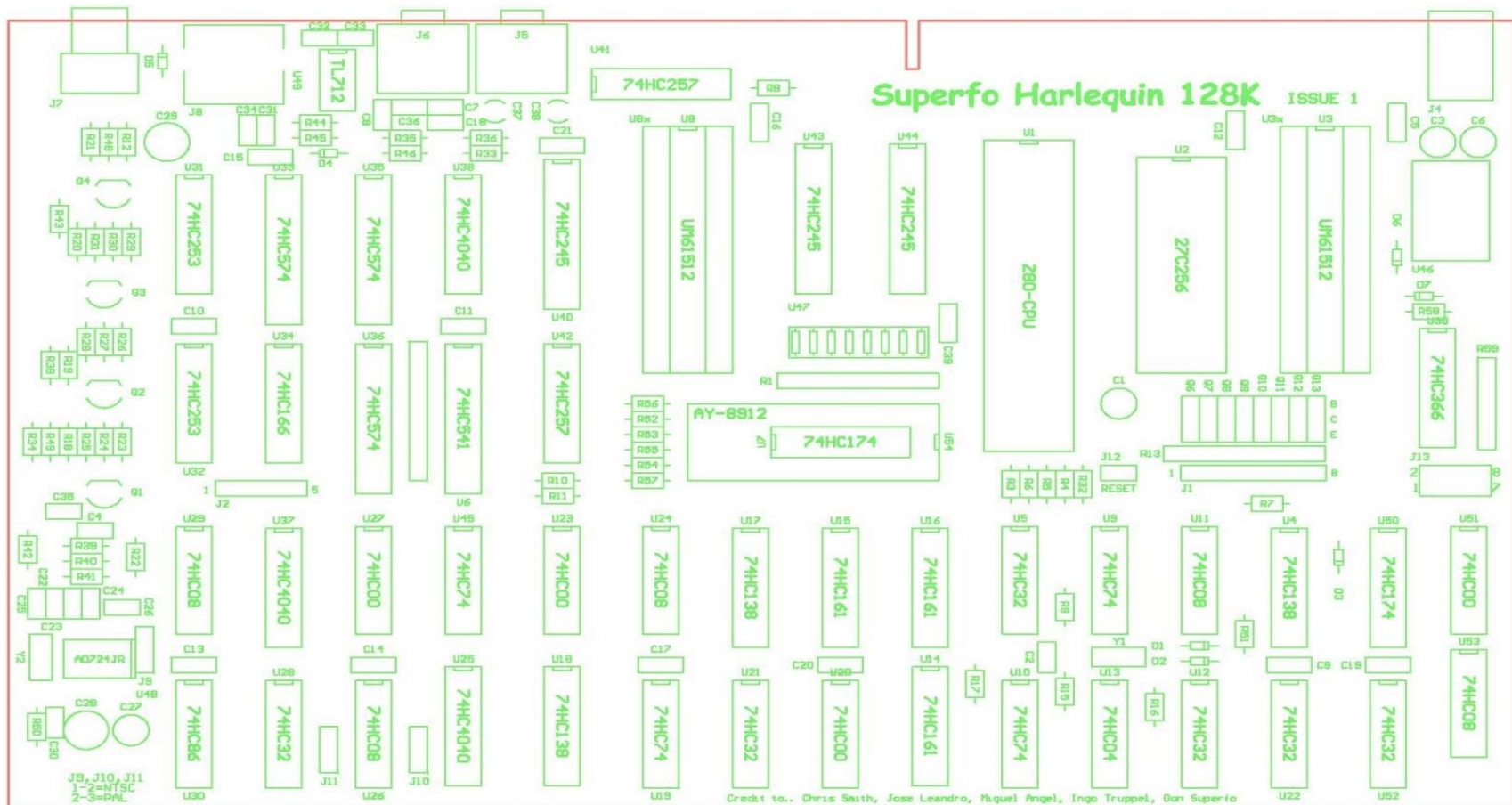
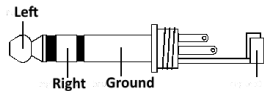
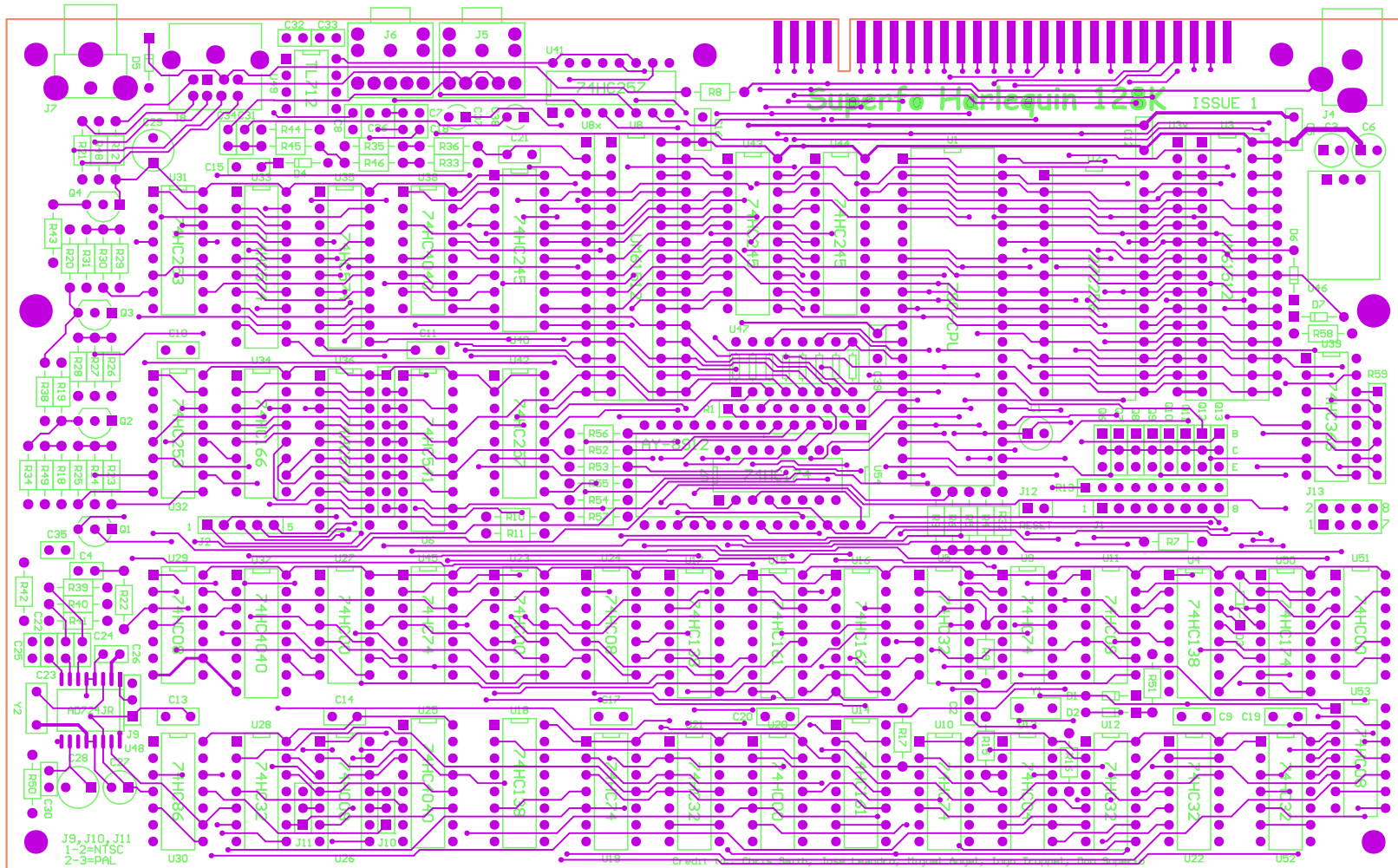


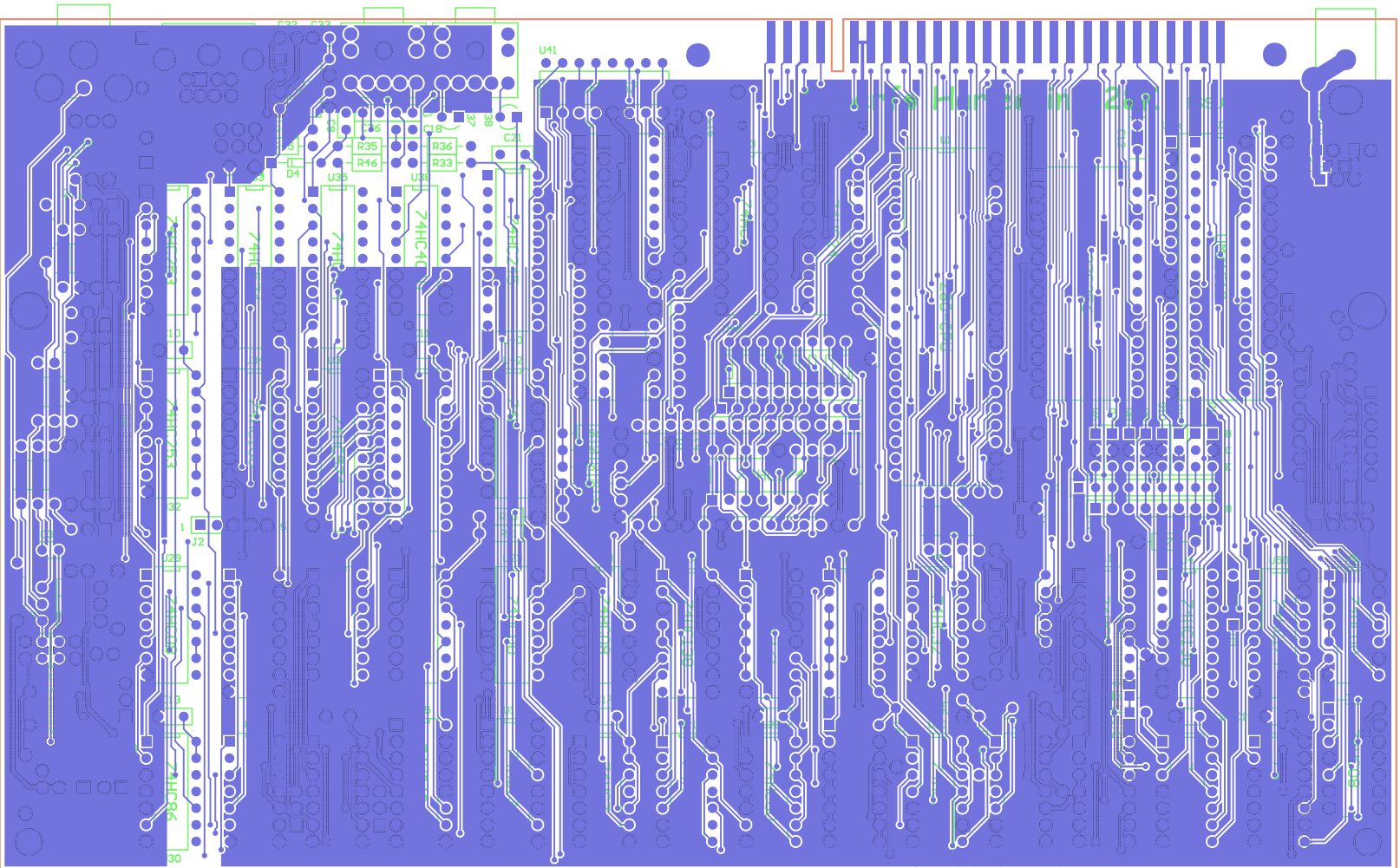


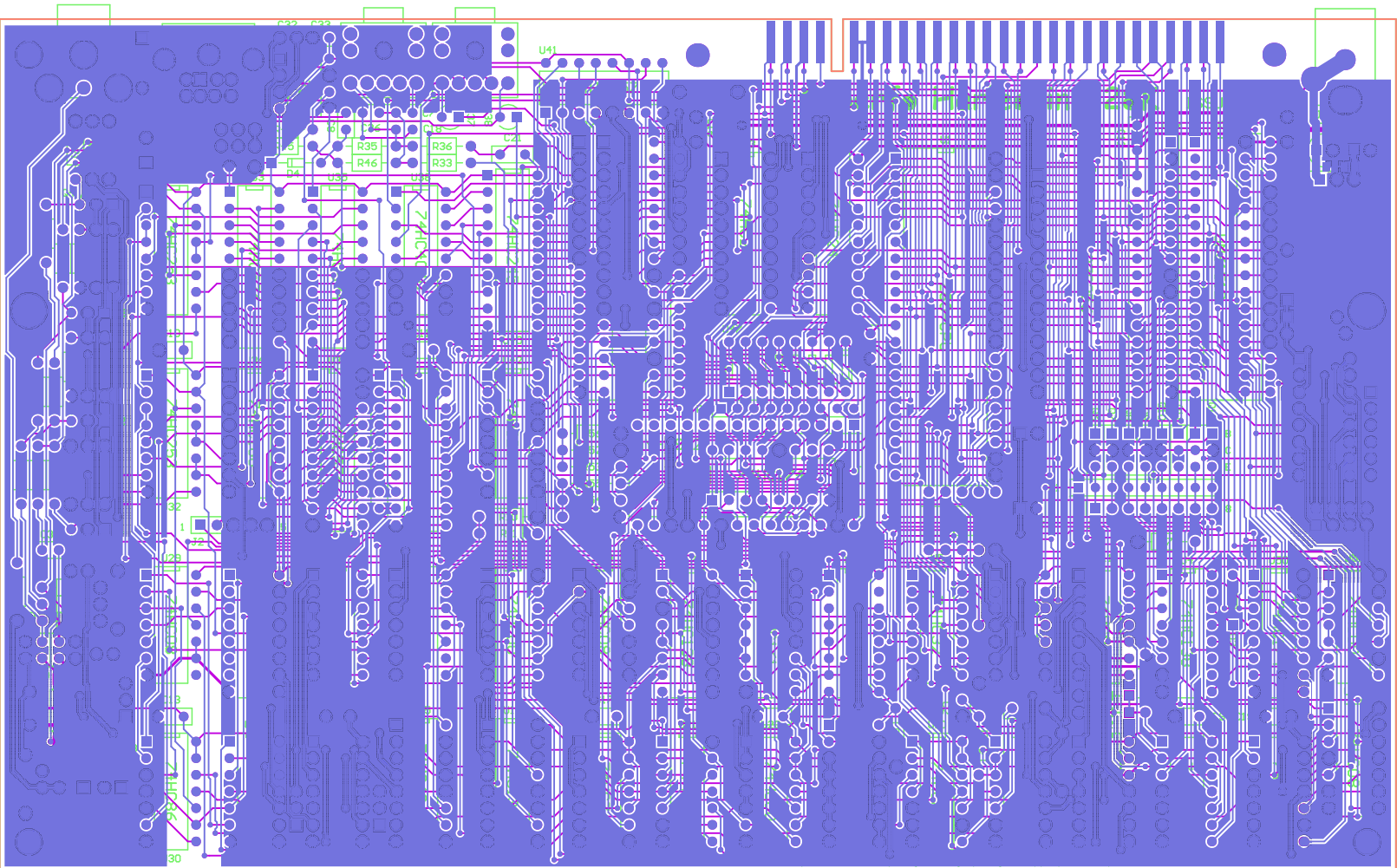


Credit to.. Chris Smith, Jose Leandro, Miguel Angel, Ingo Truppel, Don Superfo

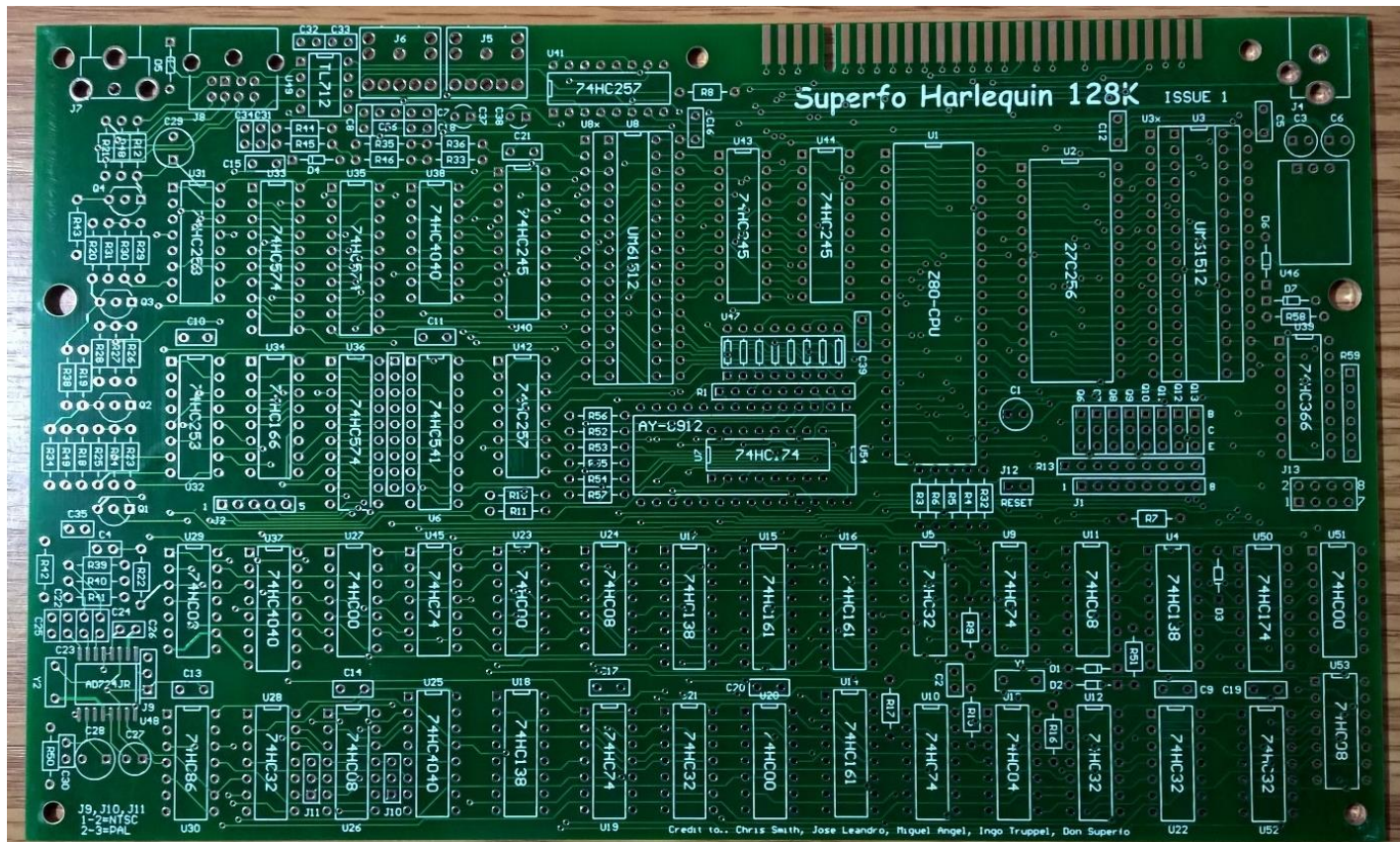


Credit to: Chris Smith, Jesse Isenhardt, Michael Arnold, Roger Tiedeman, Drew Seaman et al.

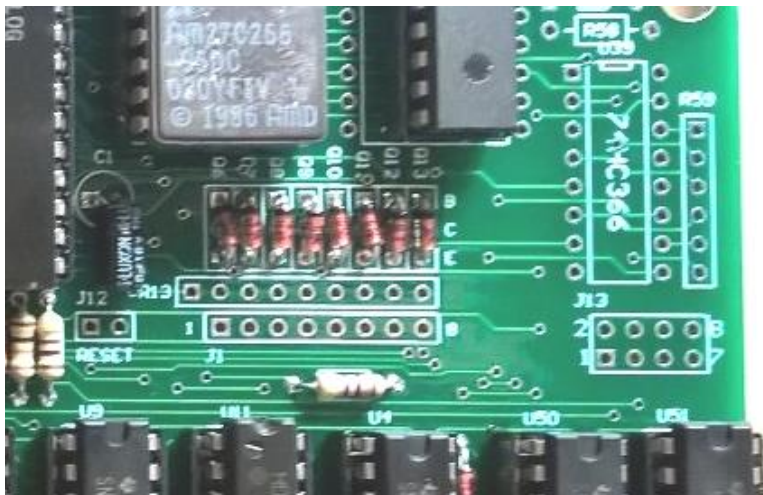




Comment	Designator	Quantity	Comment	Designator	Quantity
10uF	C1, C3, C27	3	2.7K	R49	1
100pF	C2	1	4.7M	R50	1
10pF	C4, C25	2	1K	R52, R55, R56, R57	4
0.1uF	C5, C9, C10, C11, C12, C13, C14, C15, C16, C17, C19, C20	12	2K	R53, R54	2
0.1uF	C7, C8, C21, C22, C23, C24, C26, C30, C31, C33, C34, C39	12	4.7k * 5 Network Resistor (SIP)	R59	1
22uF	C6	1	Z80-CPU	U1	1
1nF	C18, C32	2	27C256 (ZX 128K ROM)	U2	1
220uF	C28, C29	2	UM61512 or KM681000 or HM628128	U3, U8	2
3.3nF	C35, C36	2	74HC138	U4, U17, U18	3
2.2uF	C37, C38	2	74HC32	U5, U12, U21, U22, U28, U52	6
1N4740A	D4	1	74HC541	U6	1
1N4742A	D5	1	74HC174	U7, U50	2
1N4148	D1, D2, D3, D6, D7	5	74HC74	U9, U10, U19, U45	4
RCPT 8	J1	1	74HC08	U11, U24, U26, U29, U53	5
RCPT 5	J2	1	74HC04	U13	1
DC JACK	J4	1	74HC161	U14, U15, U16	3
AUDIO JACK	J5	1	74HC00	U20, U23, U27, U51	4
EAR/MIC JACK	J6	1	74HC4040	U25, U37, U38	3
VIDEO JACK	J7	1	74HC86	U30	1
Mini-DIN 8	J8	1	74HC253	U31, U32	2
Header 2	J9, J10, J11, J12	4	74HC574	U33, U35, U36	3
Header 4x2	J13	1	74HC166	U34	1
BC547 or BC548	Q1, Q2, Q3, Q4	4	74HC245	U40, U43, U44	3
2SA1175 or 2SA1309A	Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13	8	74HC257	U41, U42	2
10k * 8 Network Resistor (SIP)	R1, R2	2	OKI-78SR-5 or RECOM R-78E5.0-1.0	U46	1
10k	R3, R4, R5, R6, R10, R11, R22, R36, R51, R58	10	470 * 8 Network Resistor (DIP)	U47	1
470	R7, R9, R15, R16, R32	5	AD724JR	U48	1
150	R8	1	TL712	U49	1
270	R12, R18, R48	3	AY-8912	U54	1
4.7k * 8 Network Resistor (SIP)	R13	1	74HC366 or 74HCT366 or 74LS366	U39	1
4k7	R17	1	14MHz	Y1	1
68	R19, R20, R21, R34, R38, R43	6	4.433MHz	Y2	1
18K	R23, R26, R29	3	SOCKET 8 PIN		1
3.9K	R24, R27, R30	3	SOCKET 14 PIN		21
2.2K	R25, R28, R31	3	SOCKET 16 PIN		16
33K	R33	1	SOCKET 20 PIN		7
12K	R35, R45, R46	3	SOCKET 28 PIN		2
75	R39, R40, R41, R42	4	SOCKET 32 PIN (300mil or 600mil)		2
100K	R44	1	SOCKET 40 PIN		1

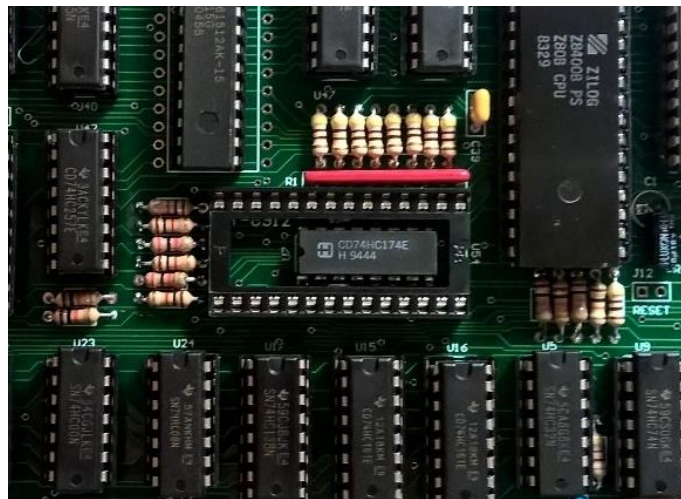


Credit to.. Chris Smith, Jose Leandro, Miguel Angel, Ingo Truppel, Don Superio

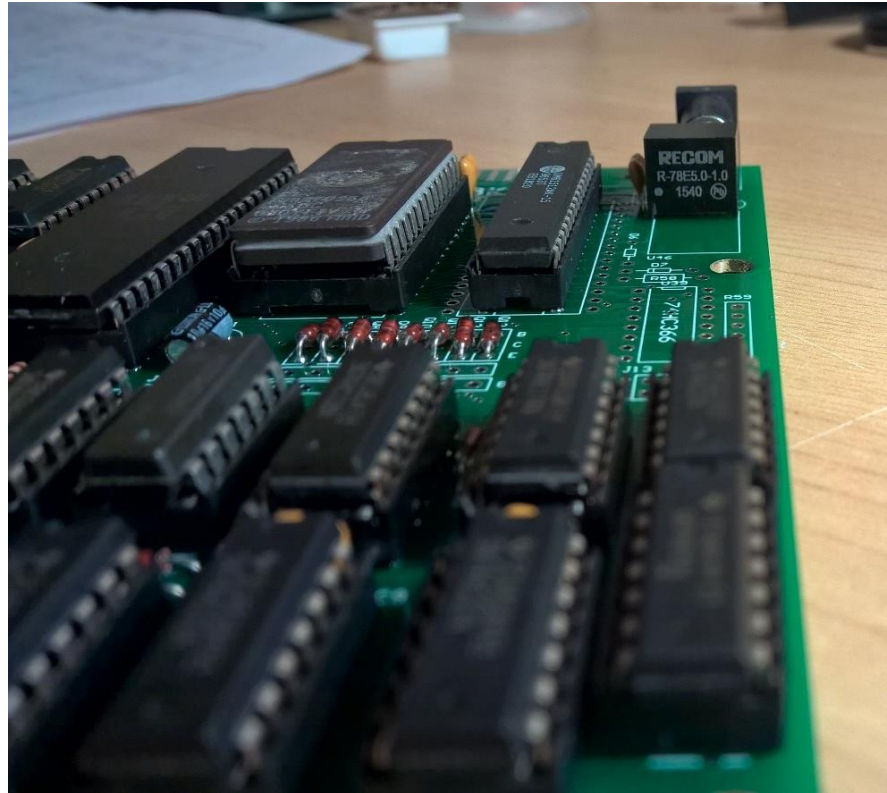


Q6-Q13 can be replaced with Diode 1N4148

(don't need to install R13 if using diode)



U7 is under AY-8912



U46 use OKI regulator or RECOM regulator