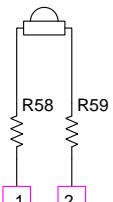
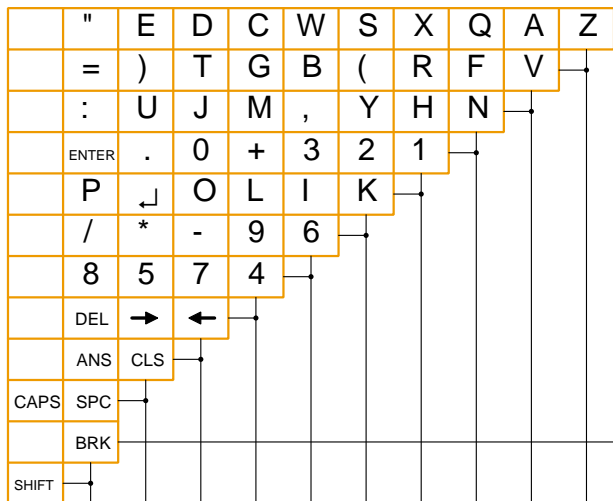
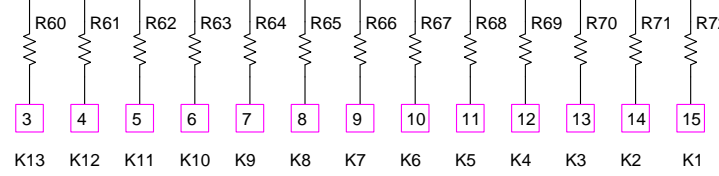


keyboard matrix



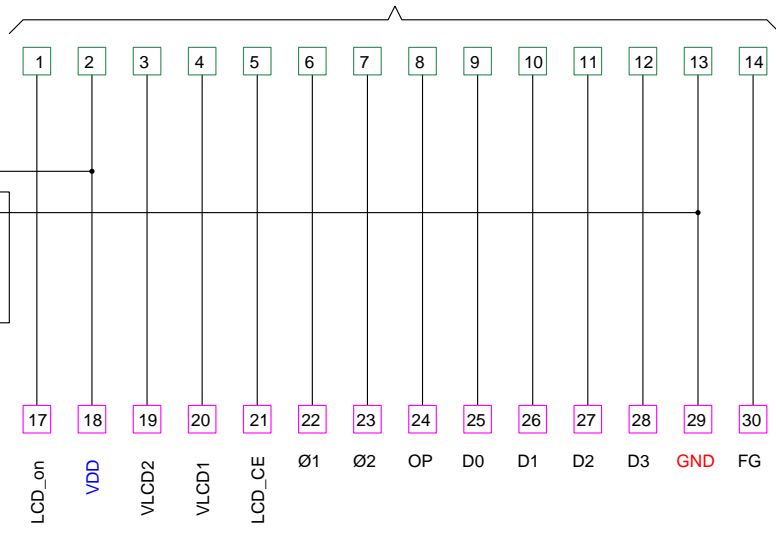
buzzer



K13 K12 K11 K10 K9 K8 K7 K6 K5 K4 K3 K2 K1

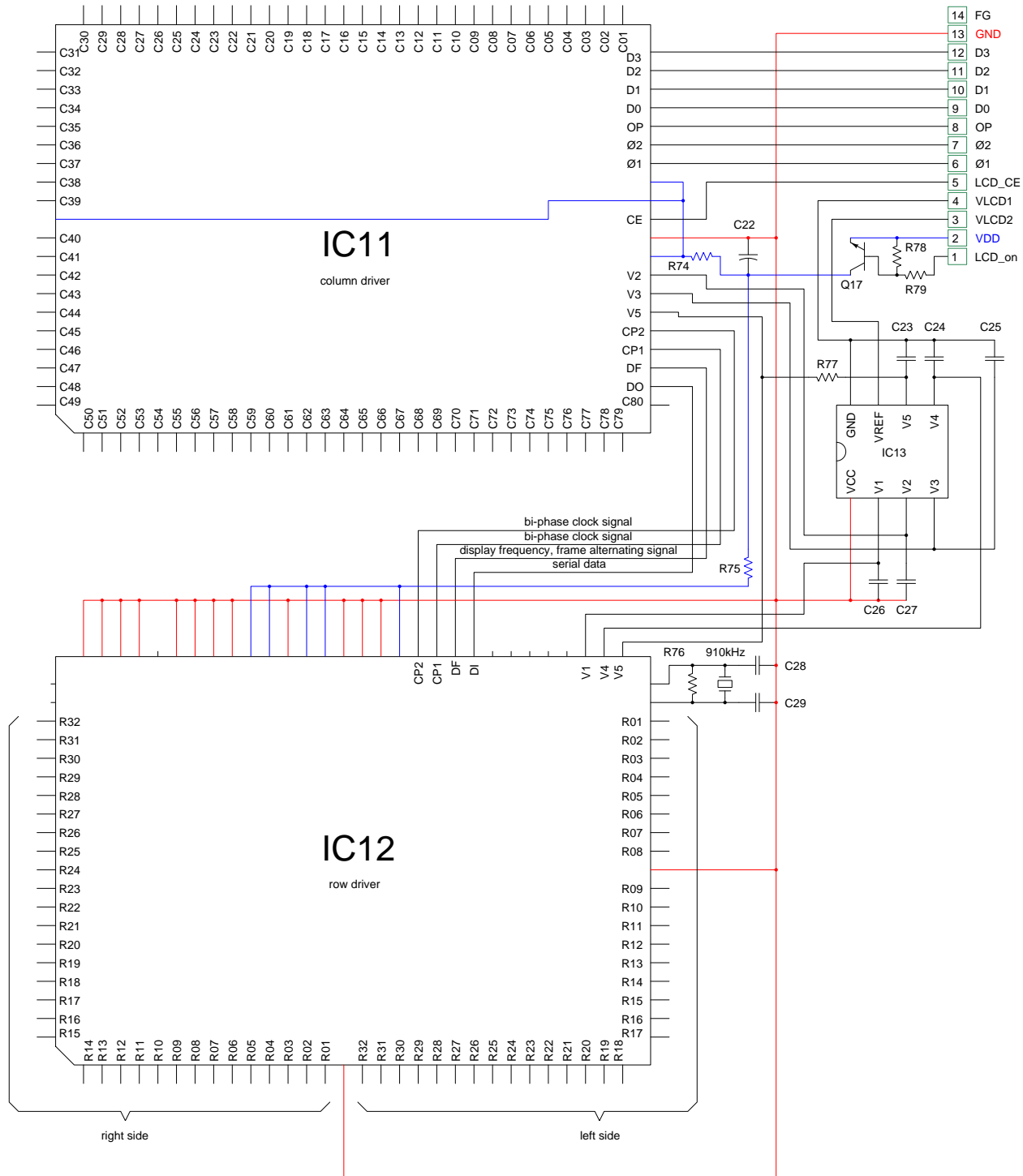


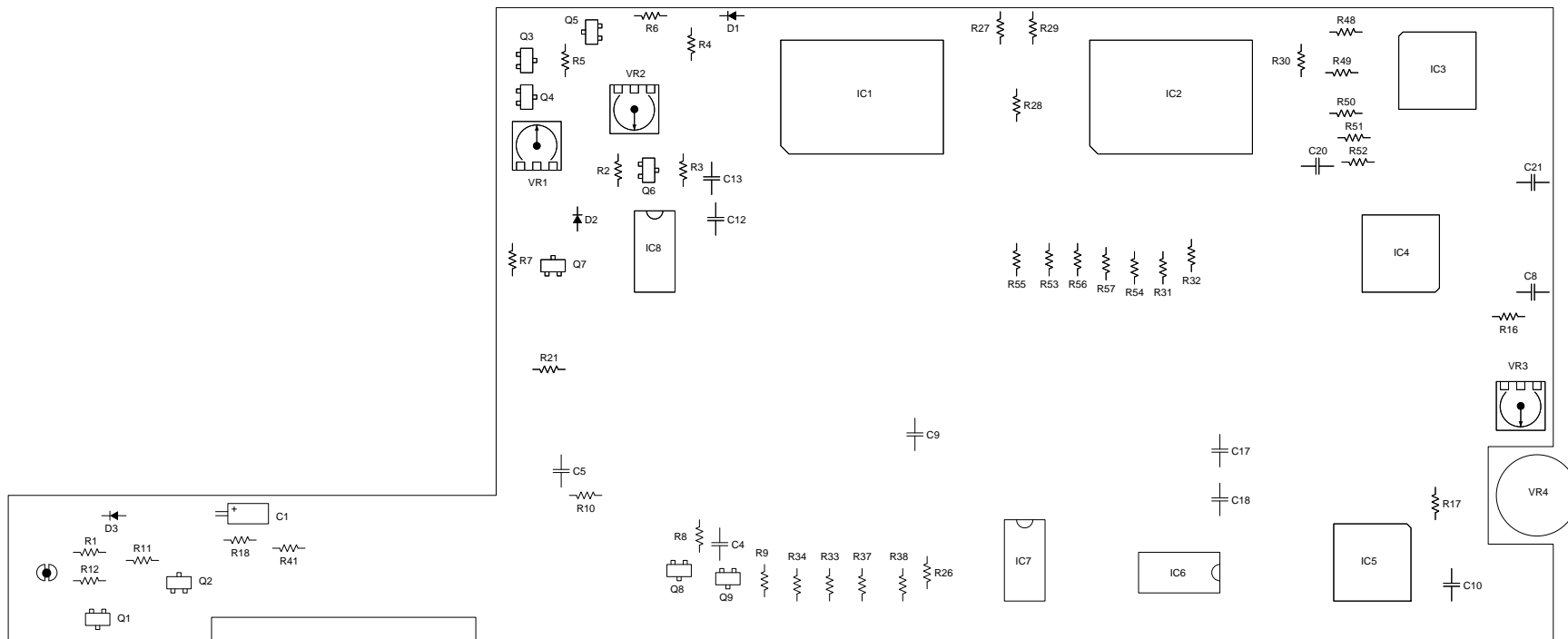
power switch

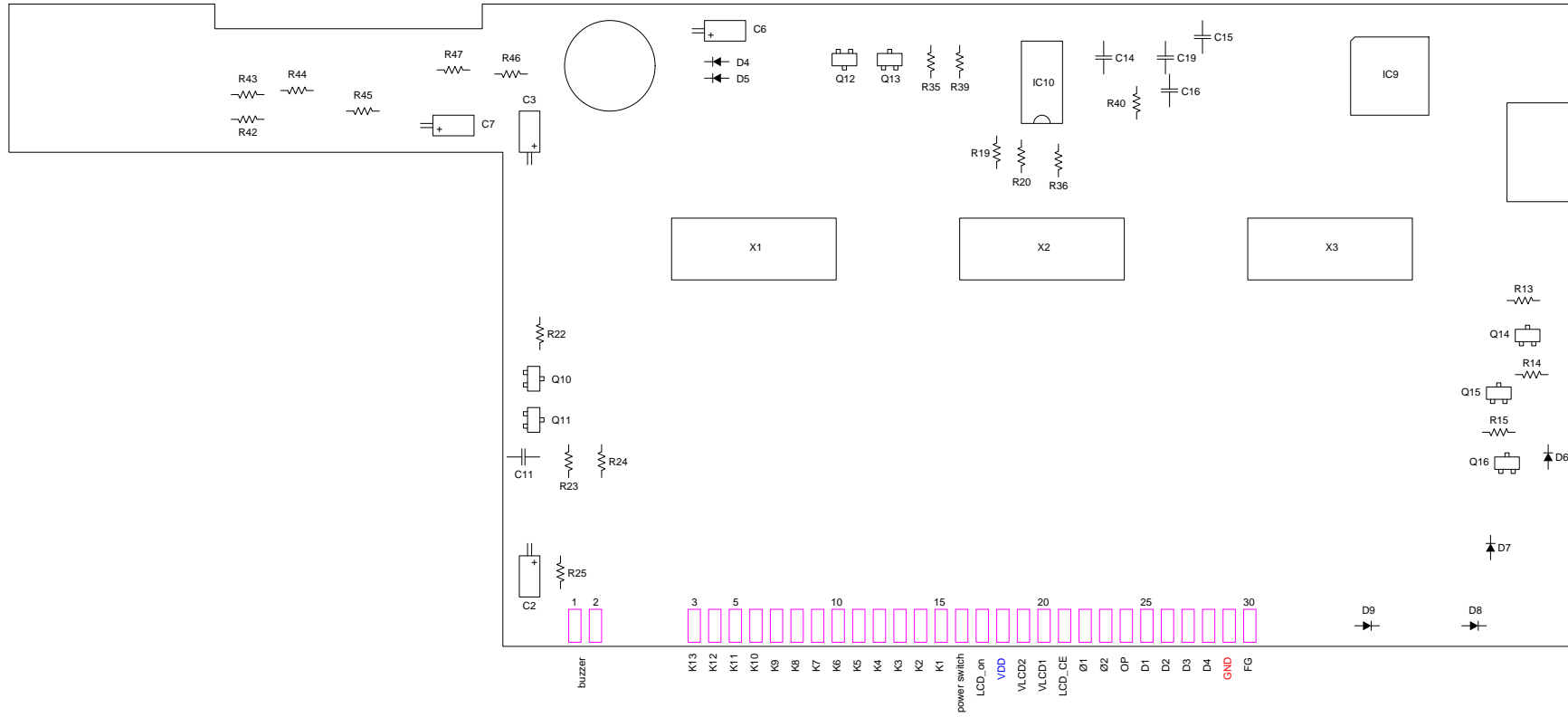


to the LCD board

to the CPU board







Parts list

IC1	HD61917A06	R11	15k Ω	R68	4.7k Ω
IC2	HD61917A07	R12	15k Ω	R69	4.7k Ω
IC3	HD61914C	R13	680k Ω	R70	4.7k Ω
IC4	HD61914C	R14	120k Ω	R71	4.7k Ω
IC5	HD61914C	R15	270k Ω	R72	4.7k Ω
IC6	TC4071BF	R16	470k Ω	R73	150k Ω
IC7	TC40H000F	R17	180k Ω	R74	56 Ω
IC8	TC4071BF	R18	120k Ω	R75	56 Ω
IC9	HD61914C	R19	10k Ω	R76	2.2M Ω
IC10	TC50H000F	R20	470k Ω	R77	100 Ω
IC11	M6225	R21	680k Ω	R78	100k Ω
IC12	M6226-01K	R22	330k Ω	R79	47k Ω
IC13	LA5310	R23	220k Ω		
		R24	270k Ω	C1	0.33 μ F
Q1	2SC1623	R25	39k Ω	C2	22 μ F
Q2	2SA812	R26	56 Ω	C3	22 μ F
Q3	2SA812	R27	56 Ω	C4	
Q4	2SC1623	R28	56k Ω	C5	
Q5	2SA812	R29	56 Ω	C6	3.3 μ F
Q6	2SC1623	R30	56k Ω	C7	33 μ F
Q7	2SA812	R31	15k Ω	C8	
Q8	2SA812	R32	15k Ω	C9	
Q9	2SA812	R33	680k Ω	C10	
Q10	2SA812	R34	680k Ω	C11	
Q11	2SA812	R35	330k Ω	C12	
Q12	2SA812	R36	22k Ω	C13	
Q13	2SA812	R37	680k Ω	C14	
Q14	2SA812	R38	680k Ω	C15	
Q15	2SA812	R39	330k Ω	C16	
Q16	2SA812	R40	22k Ω	C17	
Q17	2SC1623	R41	3.9k Ω	C18	
		R42	3.9k Ω	C19	
D1	red LED	R43	3.9k Ω	C20	
D2	1S1588	R44	3.9k Ω	C21	
D3	1S1588	R45	3.9k Ω	C22	
D4	Zener 20V	R46	3.9k Ω	C23	
D5		R47	3.9k Ω	C24	
D6	1S1588	R48	2.2k Ω	C25	
D7	1S1588	R49	2.2k Ω	C26	
D8	1S1588	R50	2.2k Ω	C27	
D9	1S1588	R51	2.2k Ω	C28	
		R52	2.2k Ω	C29	
VR1	20k Ω	R53	2.2k Ω		
VR2	50k Ω	R54	2.2k Ω		
VR3	220k Ω	R55	2.2k Ω		
VR4	100k Ω	R56	2.2k Ω		
		R57	2.2k Ω		
R1	100 Ω	R58	100 Ω		
R2	2.2M Ω	R59	100 Ω		
R3	120k Ω	R60	4.7k Ω		
R4	150k Ω	R61	4.7k Ω		
R5	150k Ω	R62	4.7k Ω		
R6	68k Ω	R63	4.7k Ω		
R7	47k Ω	R64	4.7k Ω		
R8	270k Ω	R65	4.7k Ω		
R9	1k Ω	R66	4.7k Ω		
R10	33k Ω	R67	4.7k Ω		