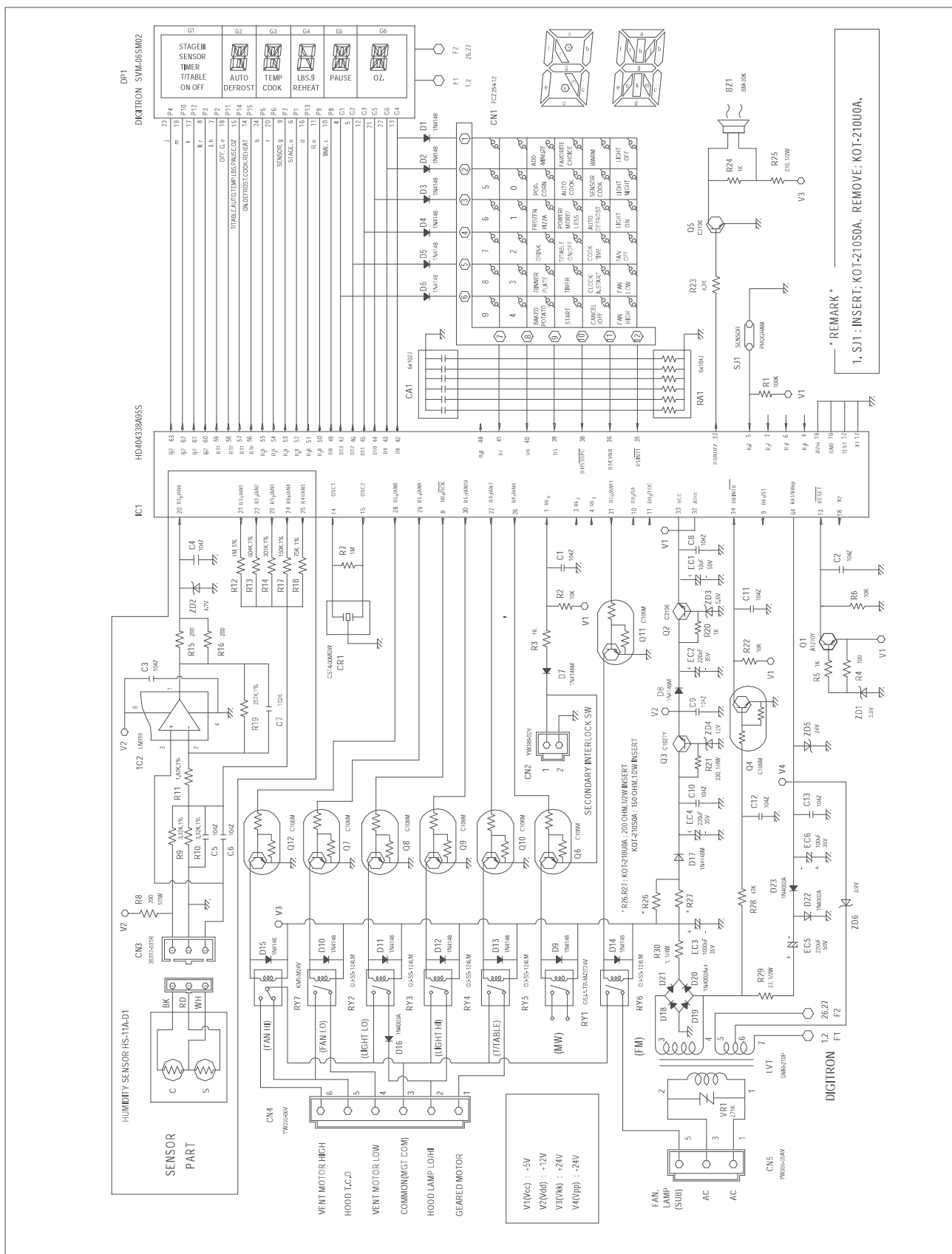


## 10-4. PCB CIRCUIT DIAGRAM



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## 10-5. PCB LOCATION NO

NO	NAME	SYMBOL	SPECIFICATION	PART CODE	Q'TY	REMARK
1	BUZZER	BZ1	BM-20K	3515600100	1	
2	CAPACITOR ARRAY	CA1	7P(6) 102 M 50V	CN6XB-102M	1	
3	CAPACITOR CERAMIC	C1,C2,C8~C13	104 50V Z AXIAL	CCZF1H104Z	8	
4	CAPACITOR CERAMIC	C3~C6	104 50V Z AXIAL	CCZF1H104Z	4	KOT-210S
5	CAPACITOR CERAMIC	C7	102 50V Z AXIAL	CCZB1H102K	1	KOT-210S
6	CAPACITOR ELECTRO	EC1	50V RS 10uF	CEXE1H100A	1	
7	CAPACITOR ELECTRO	EC2,EC4	35V RSS 220uF	CEXF1V221V	2	
8	CAPACITOR ELECTRO	EC3	35V RSS 1000uF	CEXF1V102V	1	
9	CAPACITOR ELECTRO	EC5	50V RSS 220uF	CEXF1H221V	1	
10	CAPACITOR ELECTRO	EC6	50V RSS 100uF	CEXF1H101V	1	
11	CONNECTOR FILM	CN1	FCZ 254-12	441M367170	1	
12	CONNECTOR WAFER	CN2	YW396-02V	3519150520	1	
13	CONNECTOR WAFER	CN3	35312-0310	30166M5030	1	KOT-210S
14	CONNECTOR WAFER	CN4	YW396-06V	3519105610	1	
15	CONNECTOR WAFER	CN5	YW396-05VA	3519150510	1	
16	DIODE SWITCHING	D1~D6,D9~D15	1N4148 AUTO 52mm	DZN4148---	13	
17	DIODE SWITCHING	D7,D8,D17	1N4148M (5mm)	DZN4148M--	3	
18	DIODE RECTIFYING	D18~D23	1N4002A AUTO 52mm	DZN4002A--	6	
19	DIODE RECTIFYING	D16	1N4003A AUTO 52mm	DZN4003A--	1	
20	DIODE ZENER	ZD1,ZD6	MTZ-3.9VB, 0.5W	DZTZ3R9B--	2	
21	DIODE ZENER	ZD2	MTZ-4.7VB, 0.5W	DZTZ4R7B--	1	KOT-210S
22	DIODE ZENER	ZD3	MTZ-5.6VB, 0.5W	DZTZ5R6B--	1	
23	DIODE ZENER	ZD4	MTZ-12VC, 0.5W	DZTZ12C---	1	
24	DIODE ZENER	ZD5	MTZ-24VC, 0.5W	DZTZ24C---	1	
25	DIGITRON	DP1	SVM-6SM02(S/S)	DSVM6SM02-	1	
26	HOLDER VFD	DPH	PP	3513002800	1	
27	IC MICOM	IC1	HD404338A95S	147ST210R0	1	
28	IC MICOM	IC2	LM358(OP AMP)	1LM358----	1	KOT-210S
29	PCB MAIN	M148	M148	3514315600	1	
30	RESISTOR	R1	1/6W 100K Ohm 5%	RD-AZ104J-	1	
31	RESISTOR	R2,R6,R22	1/6W 10K Ohm 5%	RD-AZ103J-	3	
32	RESISTOR	R3,R5,R20,R24	1/6W 1K Ohm 5%	RD-AZ102J-	4	
33	RESISTOR	R4	1/6W 100 Ohm 5%	RD-AZ101J-	1	

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NO	NAME	SYMBOL	SPECIFICATION	PART CODE	Q'TY	REMARK
34	RESISTOR	R7	1/6W 1M Ohm 5%	RD-AZ105J-	1	
35	RESISTOR	R23	1/6W 4.7K Ohm 5%	RD-AZ472J-	1	
36	RESISTOR	R28	1/6W 47K Ohm 5%	RD-AZ473J-	1	
37	RESISTOR	R21	1/4W 330 Ohm 5%	RD-4Z331J-	1	
38	RESISTOR	R25	1/2W 270 Ohm 5%	RD-2Z271JS	1	
39	RESISTOR	R29	1/2W 27 Ohm 5%	RD-2Z270JS	1	
40	RESISTOR	R26,R27	1/2W 200 Ohm 5%	RD-2Z201JS	2	
			1/2W 150 Ohm 5%	RD-2Z151JS	2	KOT-210S
41	RESISTOR	R8	1/2W 200 Ohm 5%	RD-2Z201JS	1	KOT-210S
42	RESISTOR	R12	1/6W 1M Ohm 5%	RD-AZ105J-	1	KOT-210S
43	RESISTOR	R15,R16	1/6W 200 Ohm 5%	RD-AZ201J-	2	KOT-210S
44	RESISTOR	R9,R10	1/6W 3.32K Ohm 1%	RN-AZ3321F	2	KOT-210S
45	RESISTOR	R11	1/6W 1.82K Ohm 1%	RN-AZ1821F	1	KOT-210S
46	RESISTOR	R13	1/6W 604K Ohm 1%	RN-AZ6043F	1	KOT-210S
47	RESISTOR	R14	1/6W 301K Ohm 1%	RN-AZ3013F	1	KOT-210S
48	RESISTOR	R17	1/6W 150K Ohm 1%	RN-AZ1503F	1	KOT-210S
49	RESISTOR	R18	1/6W 75K Ohm 1%	RN-AZ7502F	1	KOT-210S
50	RESISTOR	R19	1/6W 357K Ohm 1%	RN-AZ3573F	1	KOT-210S
51	RESISTOR FUSIBLE	R30	1/4W 1 Ohm 5%	RF-4Z109J-	1	
52	RESISTOR ARRAY	RA1	7P(6) 1/8 100K 5%	RA-87X104J	1	
53	RESONATOR CERAMIC	CR1	KBR-4.0MKSTF	5PKBR40MKS	1	
54	SW RELAY	RY1	G5J-1-TP-M-DT24V	5SC0101113	1	
55	SW RELAY	RY2~RY6	OJ-SS-124LM	5SC0101405	5	
56	SW RELAY	RY7	KM1-M24V 1C-2P	5SC0102115	1	
57	TRANSISTOR	Q1	KTA1270Y AUTO	TZTA1270Y-	1	
58	TRANSISTOR	Q2,Q5	KTC3198GR AUTO	TZTC3198GR	2	
59	TRANSISTOR	Q3	KTC-1027Y AUTO	TZTC1027Y-	1	
60	TRANSISTOR	Q4,Q6~Q12	KRC106M AUTO	TZRC106M--	8	
61	TRANS POWER	LVT	DMR-210P	5EPU041351	1	
62	VARISTOR	VR1	TNR15G271K	DTNR15G271	1	
63	WIRE COPPER 10mm	J1~J6,J8,J10, J11~J13,J15~J18 J22,J23,J29,J30	1/0.52 TIN COATING	85801052GY	19	
64	WIRE COPPER 5mm	J14,J19~J21, J24~J26	1/0.52 TIN COATING	85801052GY	7	