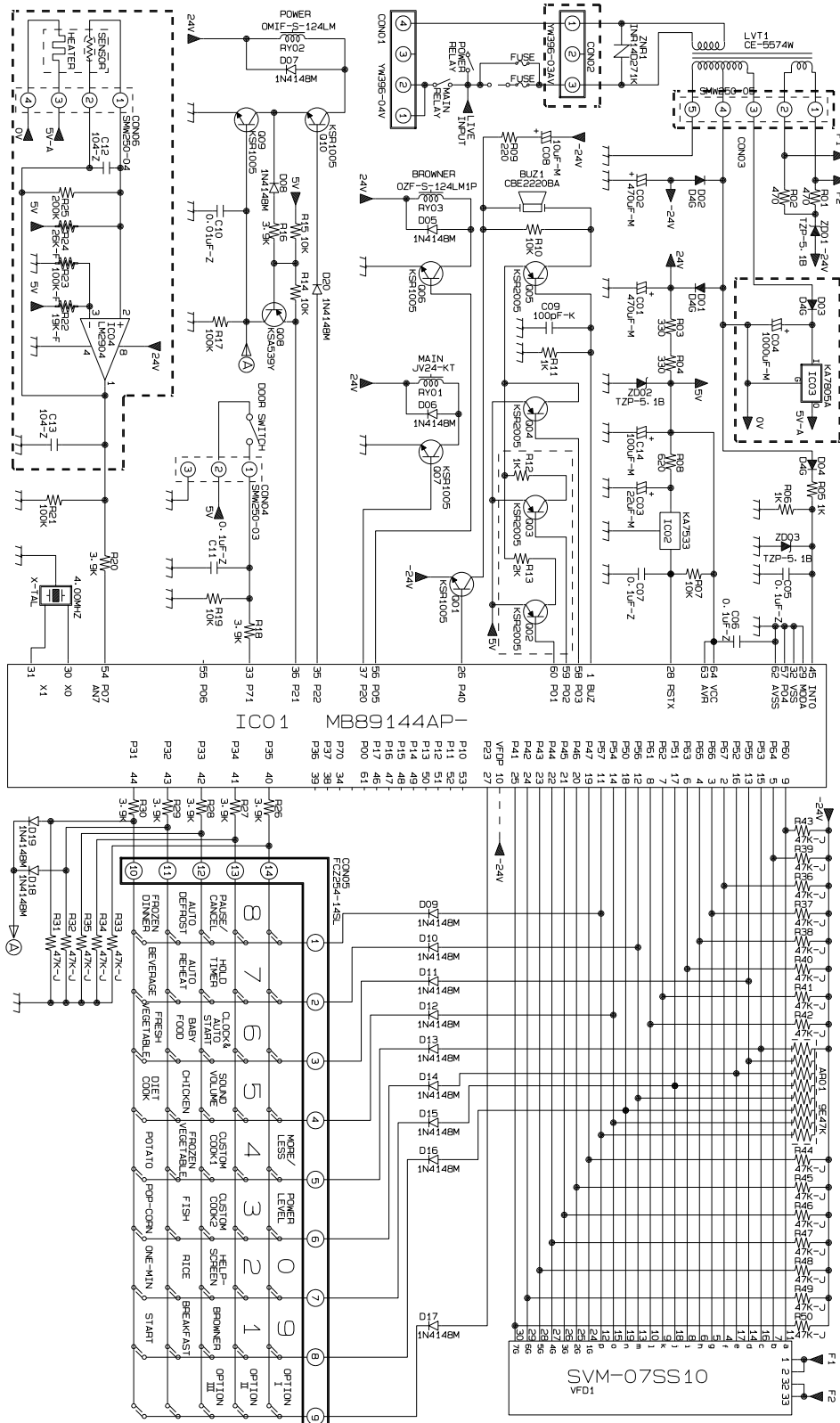


8. P.C.B Diagrams

8-1 P.C.B Diagrams

- NOTES
1.  GAS SENSOR OPTION
 2.  SOUND LEVEL OPTION
 3. DOOR IS OPENED.



8-2 P.C.B Parts List

No.	Parts No.	Description	Specification	Q'ty	Remarks
P 1	3501-001016	RELAY-MINIATURE	24V,12.5mA,5A,1FormA,8mS,4mS	1	RY01
P 2	3501-001062	RELAY-POWER	24VDC,523.2mW,16A,1FormA,15mS	1	RY02
P 3	3501-001068	RELAY-POWER	24Vdc,523mW,16A,1FormA,15mS,10	1	RY03
P 4	3708-000529	CONNECTOR-FPC/FC/PIC	14P,2.54mm,STRAIGHT,SN	1	CON05
P 5	DE07-10035A	V.F.DISPLAY	SVM-07SS10,SEA	1	VFD1
P 6	DE09-30727A	IC-MCU	MB89144AP-245,MG7980,8BIT,DIP,	1	IC01 
P 7	DE26-20144A	TRANS-L.V	SLV-5574U,120V,60HZ,AC17V/2.7V	1	LVT1
P 8	DE30-20016A	BUZZER	CBE2220BA,STICK	1	BUZ1
P 9	DE61-90164A	HOLDER-DIGITRON	NYLON#66,T1.8,BLK,MW4370W	1	-
P10	0401-001002	DIODE-SWITCHING	1N4148M,100V,200mA,DO-34,TP	5	D05,D06,D07,D08,D09
P10	0401-001002	DIODE-SWITCHING	1N4148M,100V,200mA,DO-34,TP	5	D10,D11,D12,D13,D14
P10	0401-001002	DIODE-SWITCHING	1N4148M,100V,200mA,DO-34,TP	5	D15,D16,D17,D18,D19
P10	0401-001002	DIODE-SWITCHING	1N4148M,100V,200mA,DO-34,TP	1	D20
P11	0402-001103	DIODE-RECTIFIER	1T4,400V,1A,TS-1,TP	3	D01,D02,D04
P12	0403-000525	DIODE-ZENER	1N4733A,5.1V,5%,1W,DO-41,TP	3	ZD01,ZD02,ZD03
P13	0501-000283	TR-SMALL SIGNAL	KSA539,PNP,400mW,TO-92,TP,120-	1	Q08
P14	0504-001045	TR-DIGITAL	KRC119M,NPN,400MW,4.7K/10K,TO-92M	5	Q01,Q06,Q07,Q09,Q10
P15	0504-001046	TR-DIGITAL	KRA119M,PNP,400MW,4.7K/10K,TO-92M	4	Q02,Q03,Q04,Q05
P16	1405-001010	VARIATOR	270V,4500A,16x19mm,BK	1	ZNR1
P17	2001-000037	R-CARBON(S)	330OHM,5%,1/2W,AA,TP,2.4X6.4MM	2	R03,R04
P18	2001-000273	R-CARBON	100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	2	R17,R21
P19	2001-000290	R-CARBON	10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	4	R10,R14,R15,R19
P20	2001-000429	R-CARBON	1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	5	R05,R06,R07,R11,R12
P21	2001-000515	R-CARBON	220OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	R09
P22	2001-000577	R-CARBON	2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	1	R13
P23	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	5	R16,R18,R20,R26,R27
P23	2001-000613	R-CARBON	3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	3	R28,R29,R30
P24	2001-000780	R-CARBON	470OHM,5%,1/8W,AA,TP,1.8X3.2MM	2	R01,R02
P25	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	5	R31,R32,R33,R34,R35
P25	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	5	R36,R37,R38,R39,R40
P25	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	5	R41,R42,R43,R44,R45
P25	2001-000786	R-CARBON	47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	5	R46,R47,R48,R49,R50
P26	2001-000904	R-CARBON	620OHM,5%,1/8W,AA,TP,1.8X3.2MM	1	R08
P27	2011-000582	R-NETWORK	47KOHM,5%,1/8W,A,SIP,9P,BK	1	AR01
P28	2202-000127	C-CERAMIC,MLC-AXIAL	10nF,+80-20%,25V,Y5V,TP,-,7.5	1	C10
P29	2202-000780	C-CERAMIC,MLC-AXIAL	100nF,+80-20%,50V,Y5V,TP,3.5x1	4	C05,C06,C07,C11
P30	2401-000466	C-AL	10uF,20%,35V,GP,TP,5x7,5	1	C08
P31	2401-000914	C-AL	22uF,20%,16V,GP,TP,5x11,5	1	C14
P32	2401-001363	C-AL	470uF,20%,16V,GP,TP,10x12.5,5	1	C03
P33	2401-001415	C-AL	470uF,20%,35V,GP,TP,10x20,5	2	C01,C02
P34	2802-000161	RESONATOR-CERAMIC	4MHz,0.5%,TP,10.0x5.0x7.5mm	1	X-TAL
P35	3711-000240	CONNECTOR-HEADER	1WALL,4P,1R,3.96mm,STRAIGHT,SN	1	CON01
P36	3711-000881	CONNECTOR-HEADER	BOX,3P,1R,2.5mm,STRAIGHT,SN	1	CON04
P37	DE13-20009A	IC	KA7533,DIP	1	IC02
P38	DE39-60001A	WIRE-SO COPPER	PIO.6,SN,T,52MM,TAPING_WIRE	6	J02,J03,J04,J05,J06,J07
P38	DE39-60001A	WIRE-SO COPPER	PIO.6,SN,T,52MM,TAPING_WIRE	6	J08,J09,J10,J11,J12,J13
P38	DE39-60001A	WIRE-SO COPPER	PIO.6,SN,T,52MM,TAPING_WIRE	6	J14,J15,J16,J17,J18,J19
P38	DE39-60001A	WIRE-SO COPPER	PIO.6,SN,T,52MM,TAPING_WIRE	6	J20,J21,J22,J23,J24,J25
P39	DE41-10330A	P.C.B-MAIN	FR-1,T1.6,W88,L163,USA-2ND	1	PCB