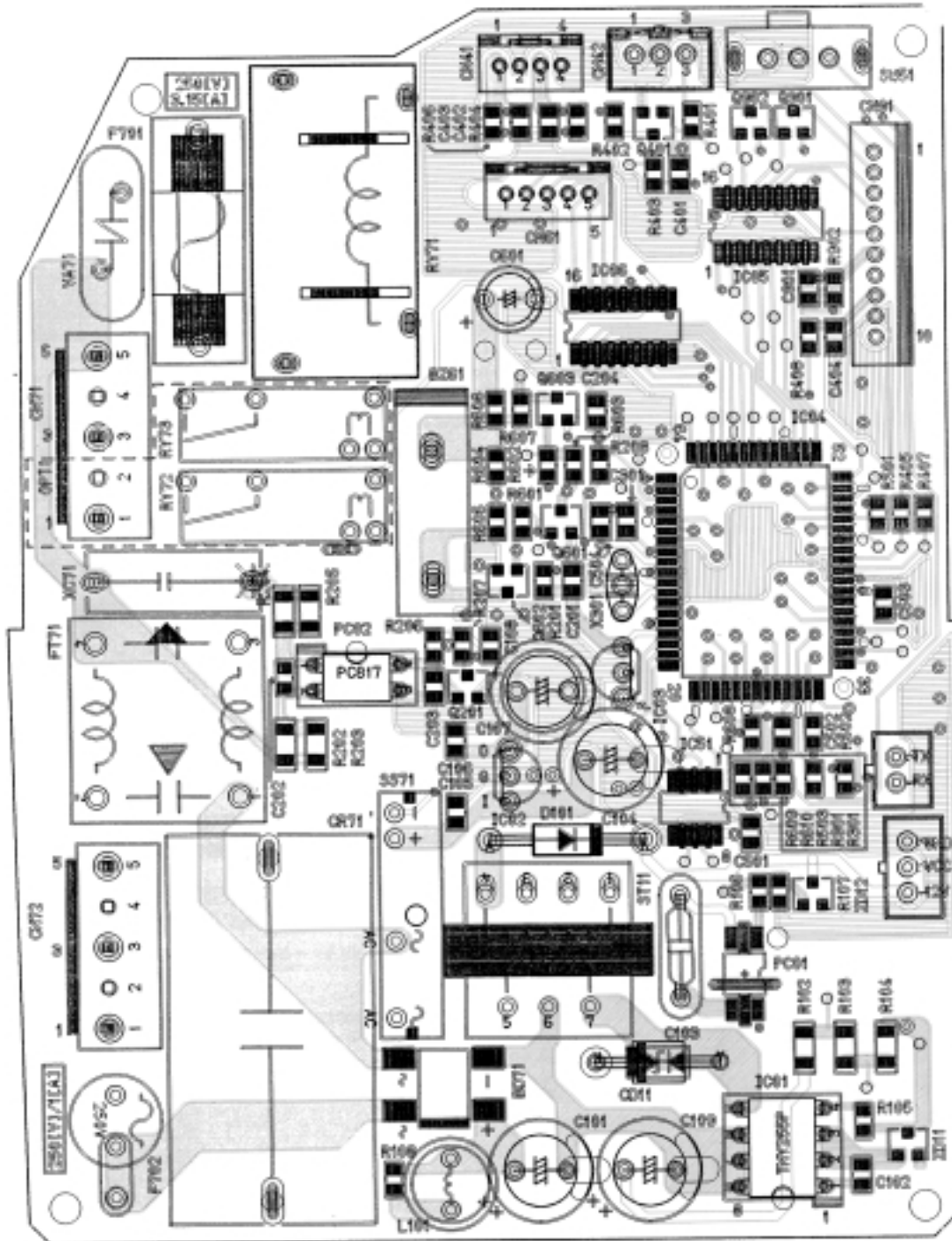


## 8. PCB Diagrams

### 8-1 ASS'Y MAIN PCB;DB93-00437A

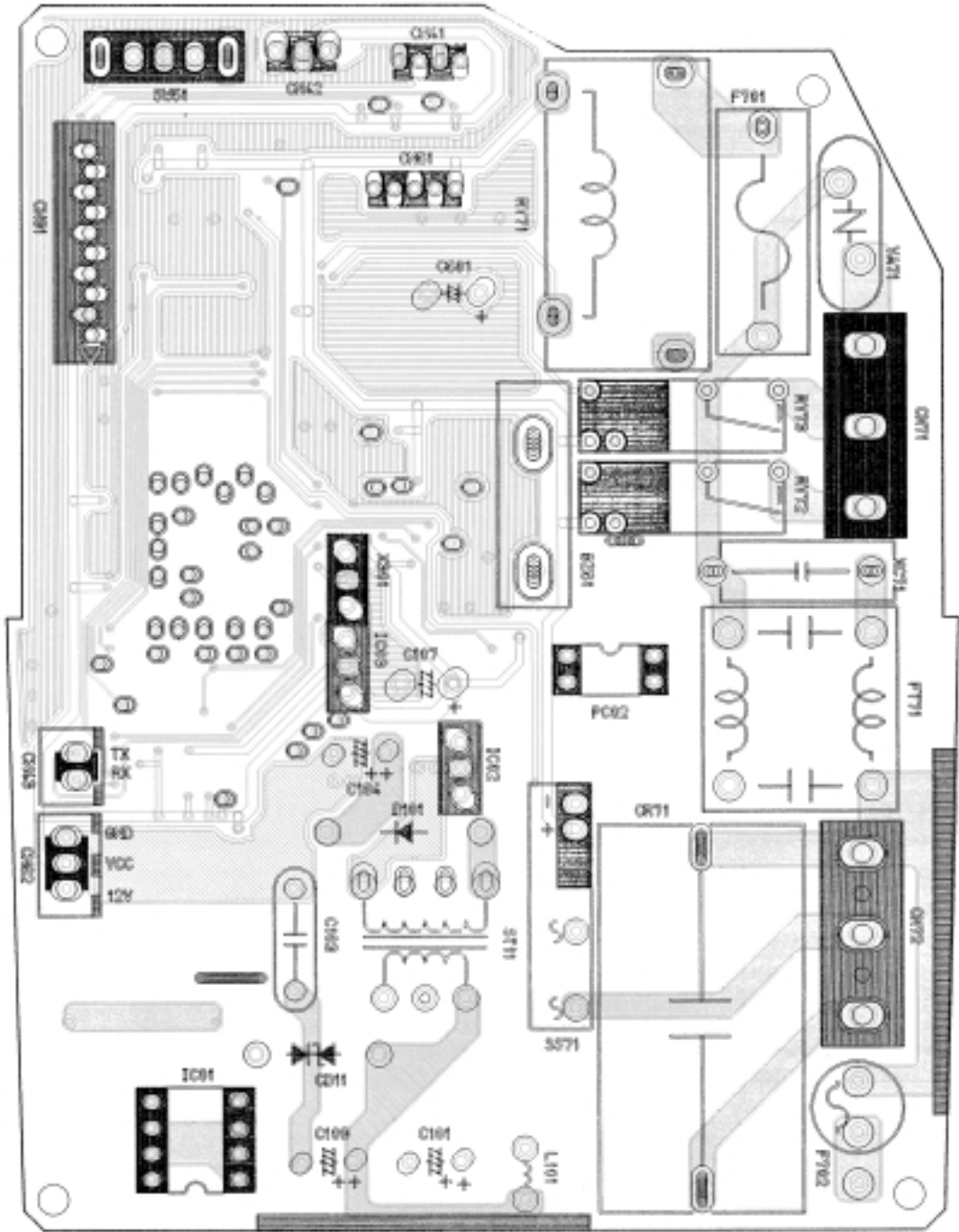
#### ■ TOP PATTERN



## ■ Parts List

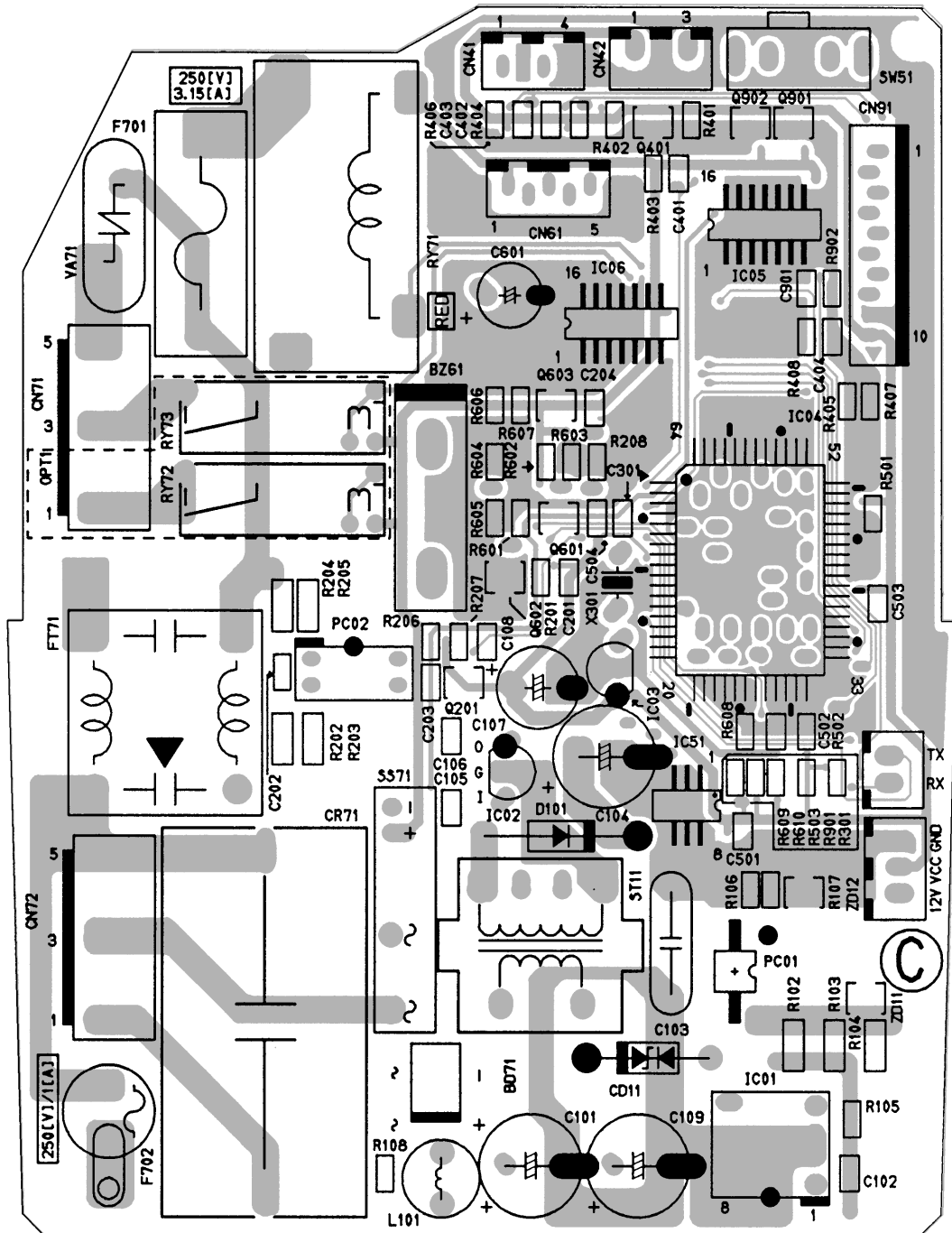
No	Description	Specification	Location No.
1	PCB-MAIN	120x93	
2	IC-MCU	KS88C4632	IC04
3	IC DRIVE	ULN2003AFW	IC05, IC06
4	EEPROM	93LC56B-I/SN	IC51
5	PHOTO COUPLER	TLP181	PC01
6	TR SMALL SIGNAL	MMST2907A	Q603
7	TR SMALL SIGNAL	2SC2412K	Q201, Q401, Q601, Q602
8	TR DIGITAL	DTA114EKA	Q901, Q902
9	DIODE BRIDGE	DF06S	BD71
10	ZENER	BZX84-C11	ZD12
11	ZENER	BZX84-C3V6	ZD11
12	SSR	G3MB202PL	SS71
13	TR SWITCH	TNY255P	IC01
14	IC VOLT REGULATOR	KA78L05	IC02
15	IC	KA7533Z	IC03
16	PHOTO COUPLER	PC814	PC02
17	FR-DIODE	UG2B	D101
18	T.V.S	ST02D-200	CD11
19	VARISTOR	INR14D561K-BS	VA71
20	RESONATOR CERAM IC	10MHZ	X301
21	SW TRANS	JT1916-1701PS2	ST11
22	FILTER NOISE	HP1-P10	FT71
23	COIL	5mH/50mA	L101
24	RELAY POWER	UKH-12S	RY71
25	BUZZER	CBE2220BA	BZ61
26	HOLDER FUSE	FB58	F701
27	FUSE	250V, 3.15A	F701
28	FUSE	250V, 1A	F702
29	CONNECTOR HEADER	YW396-05AV WHT	CN72
30	CONNECTOR HEADER	YW396-05AV BLU	CN71
31	CONNECTOR HEADER	SMW200-10 WHT	CN91
32	CONNECTOR HEADER	SMW200-5PWHT	CN61
33	CONNECTOR HEADER	SMW300-3P WHT	CN42
34	CONNECTOR HEADER	SMW200-4P WHT	CN41
35	C-FILM	1.2 $\mu$ F, 450V	CR71
36	C-AL	SD 1000 $\mu$ F, 25	C104
37	C-AL	47 $\mu$ F, 50V	C601
38	C-AL	470 $\mu$ F, 16V	C107
39	C-ELEC	SD 6.8 $\mu$ F/450V	C101, C109
40	C-CERAMIC	SDE 2G 222M	C103
41	C-FILM	100NK 275V X2	XC71
42	C-CHIP	CS2012Y5V104Z500NR	C102, C105, C106, C108, C201, C202, C301, C402, C403, C501, C502, C503, C504, C901
43	C-CHIP	CS2012Y5V103Z500NR	C203, C204, C401
44	C-CHIP	CS2012X7R102K500NR	C404
45	R-CHIP	MCR18EZHZ224	R102, R103, R104
46	R-CHIP	MCR18EZHZ104	R202, R203, R204, R205
47	R-CHIP	MCR10EZHF6801	R404, R406
48	R-CHIP	MCR10EZHZ103	R206, R501, R502, R503, R602, R609, R610, R902
49	R-CHIP	MCR10EZHZ682	R402
50	R-CHIP	MCR10EZHZ472	R108, R603, R901
51	R-CHIP	MCR10EZHZ102	R201, R207, R208, R301, R401, R403, R408, R601, R607, R608
52	R-CHIP	MCR10EZHZ561	R606
53	R-CHIP	MCR10EZHZ471	R105, R604, R605
54	R-CHIP	MCR10EZHZ331	R405, R407
55	R-CHIP	MCR10EZHZ221	R106, R107
56	RELAY-MINIATURE	F3AA012E	RY72, RY73

■ BOTTOM PATTERN



# 8-2 ASS'Y MAIN PCB;DB93-01017A

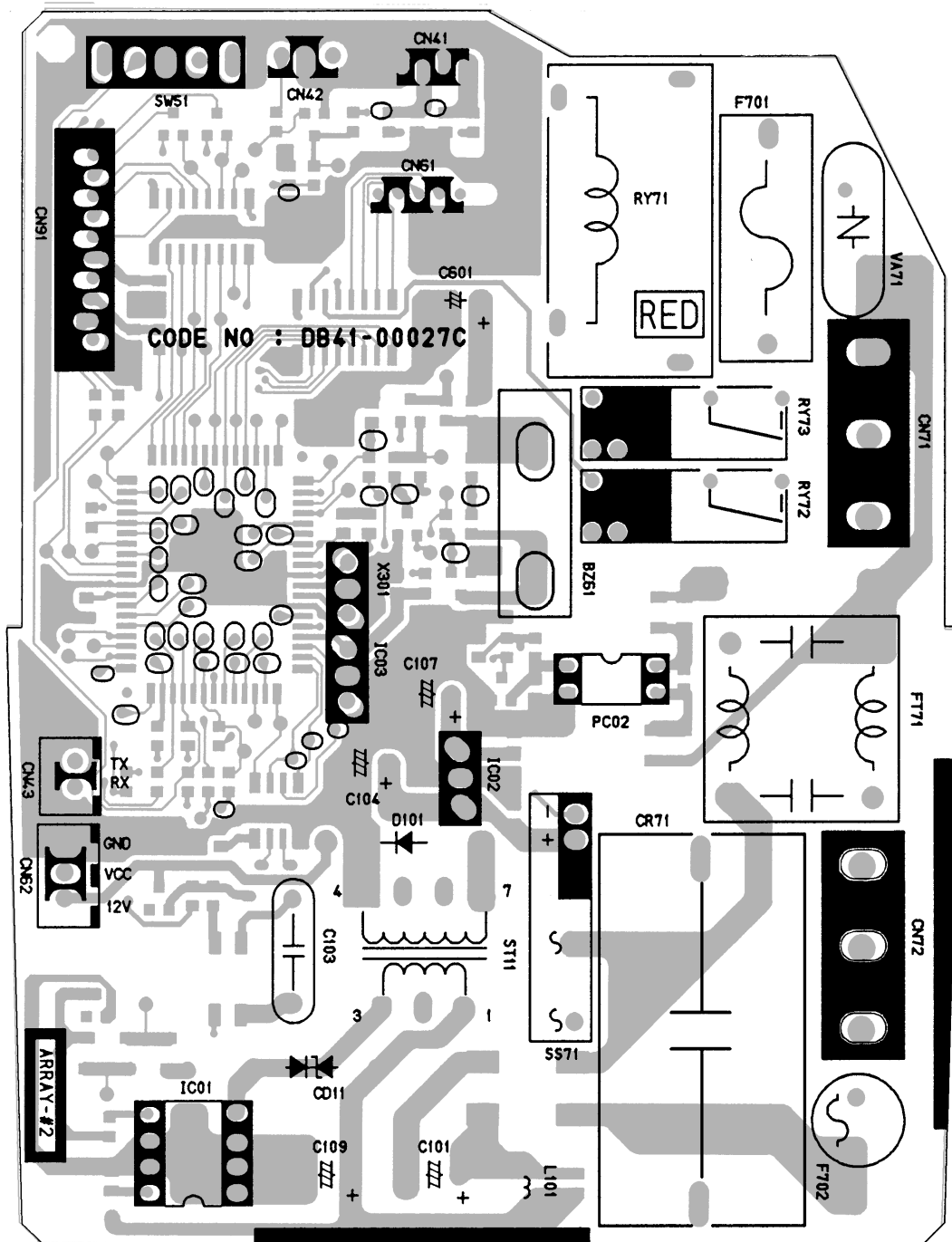
## TOP PATTERN



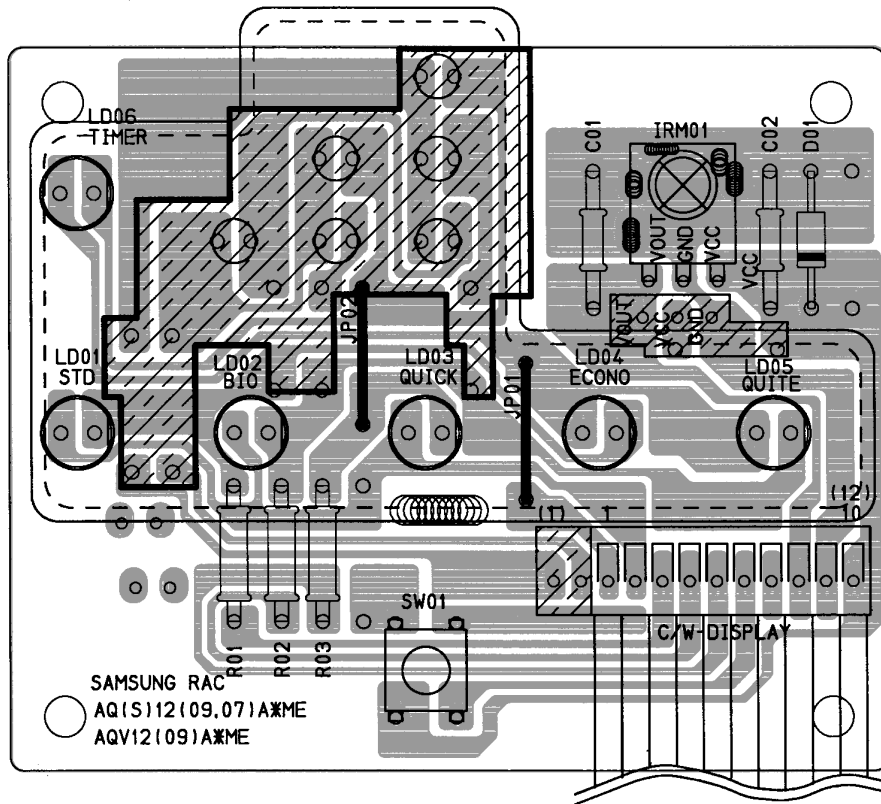
## ■ Parts List

No	Description	Specification	Location No.
1	PCB-MAIN	120x93	
2	IC-MCU	KS88C4632	IC04
3	IC DRIVE	ULN2003AFW	IC05, IC06
4	EEPROM	93LC56B-I/SN	IC51
5	PHOTO COUPLER	TLP181	PC01
6	TR SMALL SIGNAL	MMST2907A	Q603
7	TR SMALL SIGNAL	2SC2412K	Q201, Q401, Q601, Q602
8	TR DIGITAL	DTA114EKA	Q901, Q902
9	DIODE BRIDGE	DF06S	BD71
10	ZENER	BZX84-C11	ZD12
11	ZENER	BZX84-C3V6	ZD11
12	SSR	G3MB202PL	SS71
13	TR SWITCH	TNY255P	IC01
14	IC VOLT REGULATOR	KA78L05	IC02
15	IC	KA7533Z	IC03
16	PHOTO COUPLER	PC814	PC02
17	FR-DIODE	UG2B	D101
18	T.V.S	ST02D-200	CD11
19	VARISTOR	INR14D561K-BS	VA71
20	RESONATOR CERAM IC	10MHZ	X301
21	SW TRANS	JT1916	ST11
22	FILTER NOISE	HP1-P10 / NFP-1010	FT71
23	COIL	5mH/50mA	L101
24	RELAY POWER	UKH-12S	RY71
25	BUZZER	CBE2220BA	BZ61
26	HOLDER FUSE	FB58	F701
27	FUSE	250V, 3.15A	F701
28	FUSE	250V, 1A	F702
29	CONNECTOR HEADER	YW396-05AV WHT	CN72
30	CONNECTOR HEADER	YW396-05AV BLU	CN71
31	CONNECTOR HEADER	SMW200-10 WHT	CN91
32	CONNECTOR HEADER	SMW200-5PWHT	CN61
33	CONNECTOR HEADER	SMW300-3P WHT	CN42
34	CONNECTOR HEADER	SMW200-4P WHT	CN41
35	C-FILM	1.2μF, 450V	CR71
36	C-AL	SD 1000μF, 25	C104
37	C-AL	47μF, 50V	C601
38	C-AL	470μF, 16V	C107
39	C-ELEC	SD 6.8μF/450V	C101, C109
40	C-CERAMIC	SDE 2G 222M	C103
41	C-CHIP	CS2012Y5V104Z500NR	C102, C105, C106, C108, C201, C202, C301, C402, C403, C501, C502, C503, C504, C901
42	C-CHIP	CS2012Y5V103Z500NR	C203, C204, C401
43	C-CHIP	CS2012X7R102K500NR	C404
44	R-CHIP	MCR18EZHZ224	R102, R103, R104
45	R-CHIP	MCR18EZHZ104	R202, R203, R204, R205
46	R-CHIP	MCR10EZHF6801	R404, R406
47	R-CHIP	MCR10EZHZ103	R206, R501, R502, R503, R602, R609, R610, R902
48	R-CHIP	MCR10EZHZ682	R402
49	R-CHIP	MCR10EZHZ472	R108, R603, R901
50	R-CHIP	MCR10EZHZ102	R201, R207, R208, R301, R401, R403, R408, R601, R607, R608
51	R-CHIP	MCR10EZHZ561	R606
52	R-CHIP	MCR10EZHZ471	R105, R604, R605
53	R-CHIP	MCR10EZHZ331	R405, R407
54	R-CHIP	MCR10EZHZ221	R106, R107
55	RELAY-MINIATURE	F3AA012E	RY72, RY73

■ BOTTOM PATTERN



### 8-3 ASS'Y DISPLAY PCB;DB93-00268A



■ Parts List

No	Description	Location No.	Specification	Q'TY	Remark
1	PCB-DISPLAY		64.5x53	1	
2	LED-LAMP	LD01,LD02,LD03,LD04,LD05	SO5511	5	
3	LED-LAMP	LD06	SY5511	1	
4	MODULE REMOCON	IRM01	KSM-713TH5	1	
5	DIODE SWITCHING	D01	IN4148	1	
6	R-CARBON	R01,R02,R03	470 1/2W 5%	3	
7	CONNECTOR WIRE	C/W-DISPLAY	SMAW200-10P	1	
8	TACT SWITCH	SW01	KPT-1105A	1	
9	C-CERAMIC	C02	104Z	1	
10	C-CERAMIC	C01	102K	1	
11	JUMP	JP-1,JP02	10mm	2	
12	COVER DISPLAY UP		ABS(V2)	1	

# MEMO