

# Service Manual

## CAR AUDIO

Model: AKF-8846/8847



DAEWOO ELECTRONICS CO., LTD.

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# 1. PRODUCT SPECIFICATIONS

## GENERAL SPECIFICATION

	<b>AKF-8846</b>	<b>AKF-8847</b>
① POWER REQUIREMENT - GROUND SYSTEM	: NEGATIVE GROUND	NEGATIVE GROUND
- OPERATING VOLTAGE	: 14.4V DC	
② SPEAKER IMPEDANCE	: 4 OHM (4 SPEAKER)	4 OHM (4 SPEAKER)
③ MAX OUTPUT POWER (4 ohm)	: 25W x 4CH	25W x 4CH
④ FREQUENCY RANG - FM	: 87.5 - 108.0MHz	87.5 - 108.0MHz
- MW	: 531 - 1602kHz	531 - 1602kHz
LW	: -	144 - 290kHz
⑤ USAVLES SENSITIVITY - FM (S/N:30dB)	: 2 $\mu$ V	2 $\mu$ V
- MW (S/N:20dB)	: 17 $\mu$ V	17 $\mu$ V
LW (S/N:20dB)	: -	22 $\mu$ V
⑥ S/N RATIO - FM	: 55dB	55dB
- MW	: 50dB	50dB
LW	: -	45dB
⑦ STEREO SEPARATION - FM	: 30dB	30dB
⑧ SIZE	: 178(W) x 52(H) x155(D)	178(W) x 52(H) x155(D)
⑨ WEIGHT	: 1.6Kg	1.5Kg(NET)
⑩ CONSUPTION CURRENT	: 10A	: 10A
⑪ TAPE SPEED	: 4.7cm/sec	4.7cm/sec
⑫ WOW & FLUTTER	: UNDER 0.35% RMS	UNDER 0.35% RMS
⑬ S/N RATIO	: 50dB	50dB
⑭ CROSS TALK	: 40dB	40dB

## CHARACTERISTICS DESCRIPTION

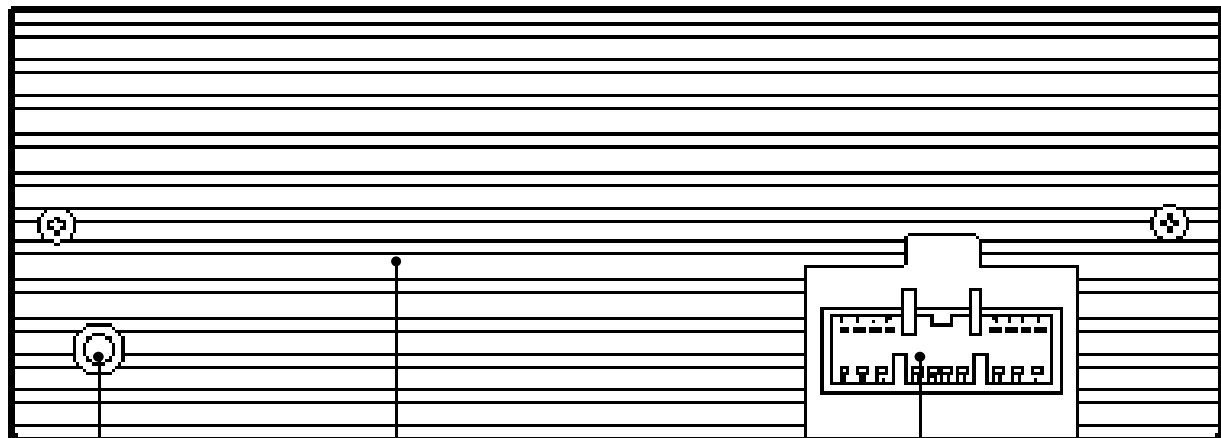
- ① AUTO REVERSE DECK
- ② ELECTRONIC TUNING
- ③ AUTO MEMORY & PRESET SCAN
- ④ 25W/CH HIGH POWER
- ⑤ AM/6, FM12 STATION MEMORY
- ⑥ METAL TAPE PLAN
- ⑦ DOLBY-B NR FUNCTION
- ⑧ LCD
- ⑨ ELECTRONIC TONE CONTROL(BASS/TREBLE)
- ⑩ ELECTRONIC AUDIO CONTROL(FADER/BALANCE/VOLUME)

# 2. LINE DRAWING

## FRONT SIDE



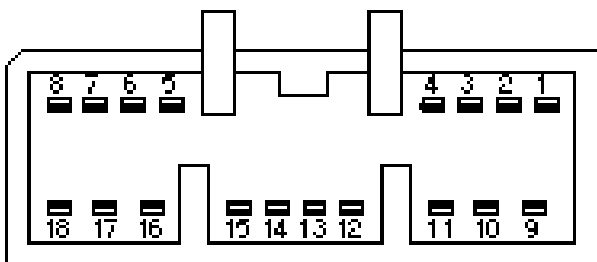
## REAR SIDE



ANT JACK

HEAT SINK

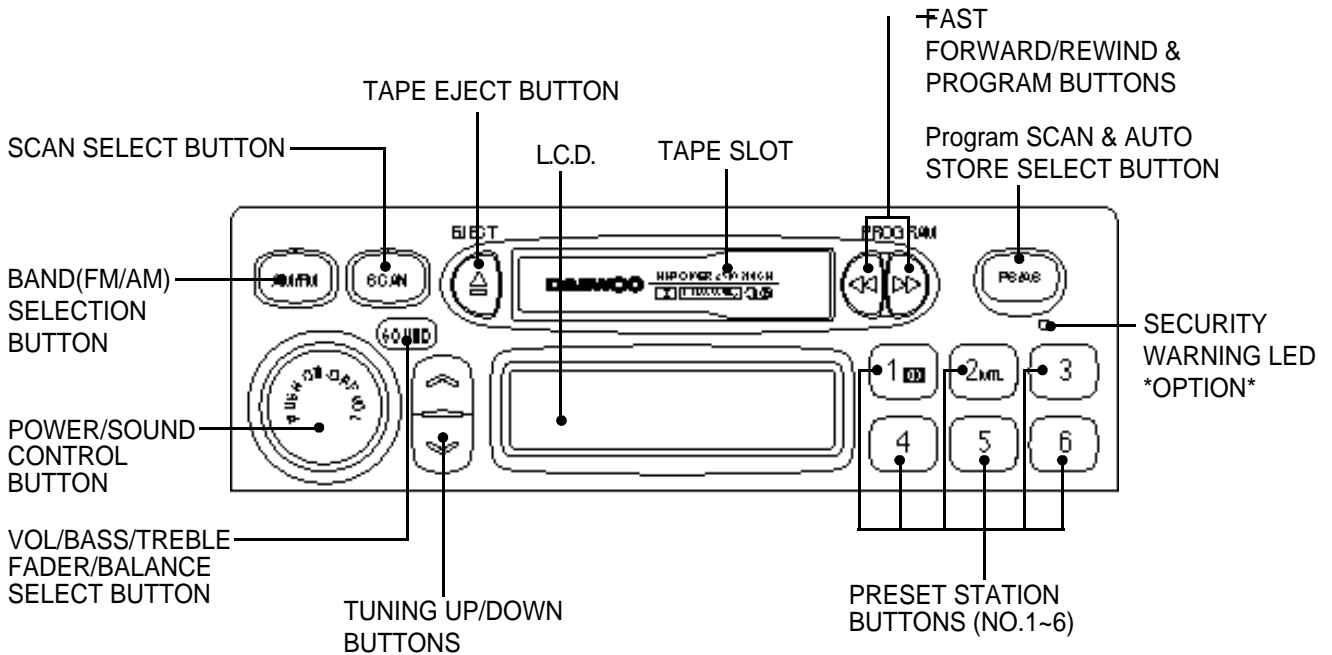
18PIN I/O CONNECTOR



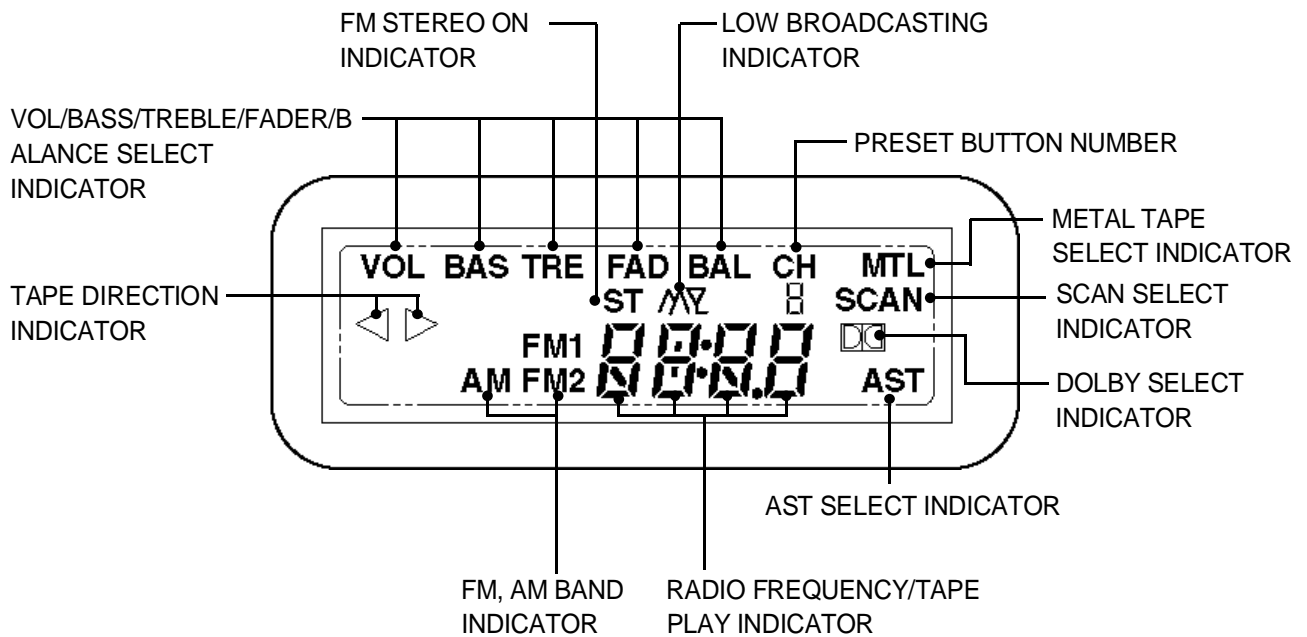
1	FRONT RIGHT SP(+)	10	REAR RIGHT SP (-)
2	REAR RIGHT SP(+)	11	ILL. CONTROL VOLT(+V-GND)
3	ILL. DIM(+B)	12	AUTO ANT. B+
4	ACC B+	13	---
5	BACK UP B+	14	NEGATIVE GROUND
6	---	15	---
7	REAR LEFT SP (+)	16	---
8	FRONT LEFT SP (+)	17	REAR LEFT SP (-)
9	FRONT RIGHT SP (-)	18	FRONT LEFT SP (-)

# 3. PANEL INFORMATION

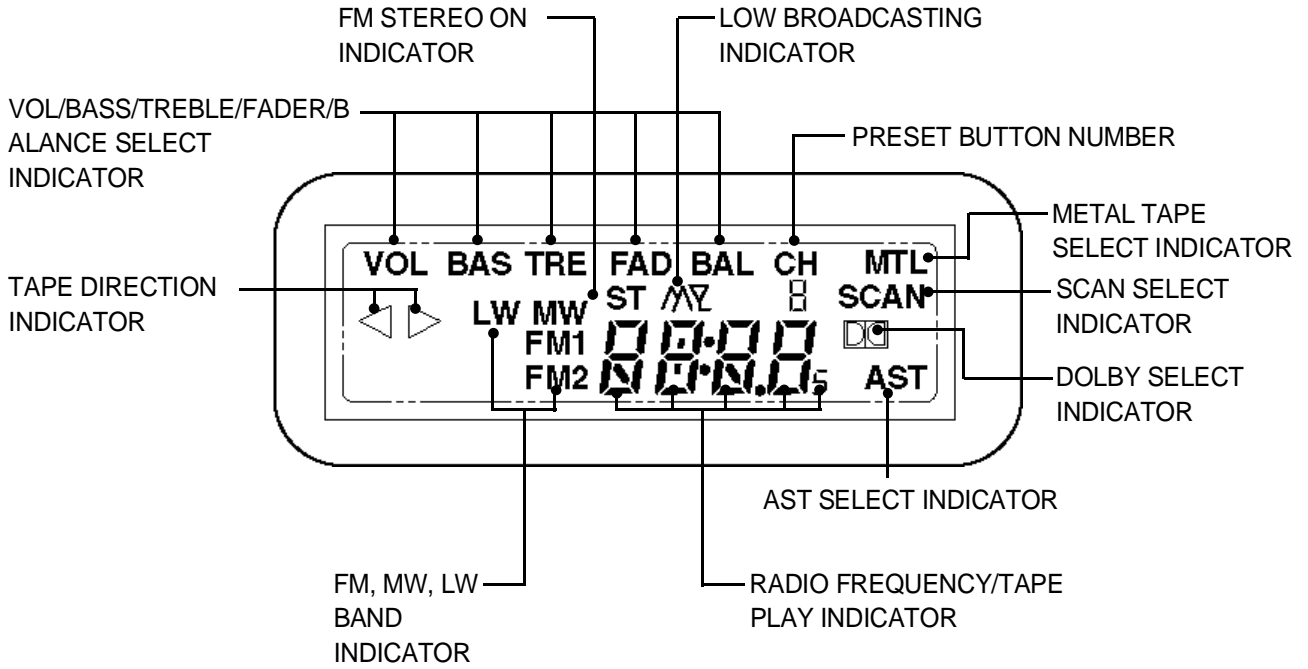
## FRONT PANEL



## DISPLAY (AKF-8846)



# DISPLAY (AKF-8847)

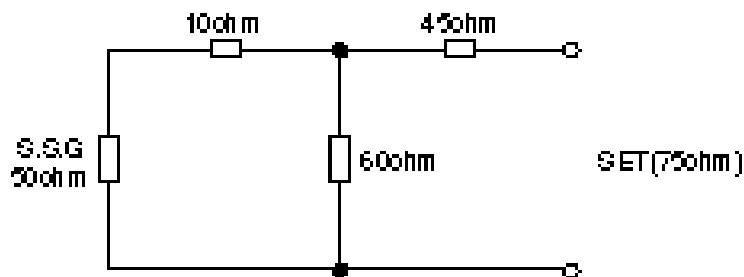


# 4. ELECTRICAL SPECIFICATION

## 4-1. FM SECTION

NO.	ITEM	TEST CONDITION	UNIT	NOMINAL	LIMIT
1	USABLE SENSITIVITY (S/N 30 dB)	90.1 MHz	dB $\mu$	5	$\leq 10$
		98.1 MHz	dBu	5	$\leq 10$
		106.1 MHz	dBu	5	$\leq 10$
2	S/N RATIO	98.1 MHz	dBu	55	$\geq 50$
3	IF REJECTION RATIO	90.1 MHz	dB $\mu$	80	$\geq 65$
4	MUTING SENSITIVITY (60 dBu Ref. -3dB)	98.1 MHz	dB $\mu$	7	3~15
5	FREQUENCY RESPONSE (75 $\mu$ S, P-EMP)	100	dB	0	$\pm 3$
		10K	dB	-10	+3/- $\infty$
6	T.H.D (98.1 MHz) (22.5 KHz DEV.)	1KHz	%	0.3	$\leq 1.0$
7	AM REJECTION (AM 30%, 60dBu)		dB	50	$\geq 40$
8	SEARCH LOCK SENS.	98.1 MHz	dB $\mu$	20	10~30
9	STEREO ON SENSITIVITY	98.1 MHz	dB $\mu$	7	3~15
10	CHANNEL SEPARATION	1K 40dB $\mu$	dB	6	$\leq 12$
		1K 60dB $\mu$		30	$\geq 25$
		10K 60dB $\mu$		20	$\leq 25$

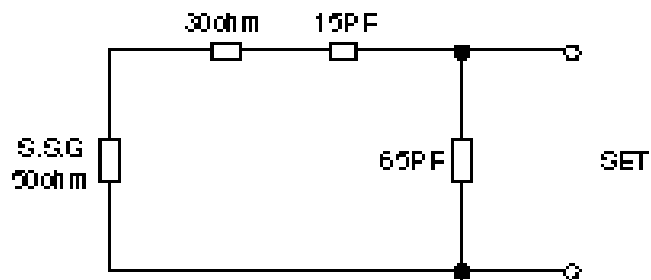
### • DUMMY CONDITION



## 4-2. AM SPECIFICATION

NO.	ITEM	UNIT	NOMINAL	LIMIT	
1	MW FREQUENCY TUNNING RANGE	KHz	531-1602	531-1602	
2	USABLE SENS (S/N 20 dB)	603 KHz	24	30(33)	
		999 KHz	24	30(33)	
		1404 KHz	24	30(33)	
3	MW S/N RATIO	dB	53	≥45	
4	IF REJECTION RATIO	dB	100	≥65	
5	IMAGE REJECTION	dB	60	≥50	
6	AGC. F.O.M	dB	58	≥50	
7	AUDIO FIDELITY (-6dB)	LOW	Hz	60	≤130
		HI	KHz	1.7	≥1.2
8	T.H.D 999 KHz (30% MOD.)	400 Hz	%	0.5	≤1.5
9	WHISTLE MODULATION	21F	%	1.0	≤3.0
10	MW SEARCH LOCK SENS.	999 KHz	dBu	35	25-45
11	CHANEL BANDWIDTH	999 KHz	KHz	9	5-13
12	LW FREQUENCY TUNNING RANGE	KHz	144-290	144-290	
13	USABLE SENSY (20dB S/N)	160KHz	dBu	30	≤40
		210 KHz	dBu	30	≤40
		260 KHz	dBu	30	≤40
14	S/N RATIO	210 KHz	dB	52	≥40
15	T.H.D. (400 Hz)	210 KHz	%	0.5	≤1.5
16	SEARCH LOCK SENS.	210KHz	dBu	35	25-45

### • DUMMY CONDITION



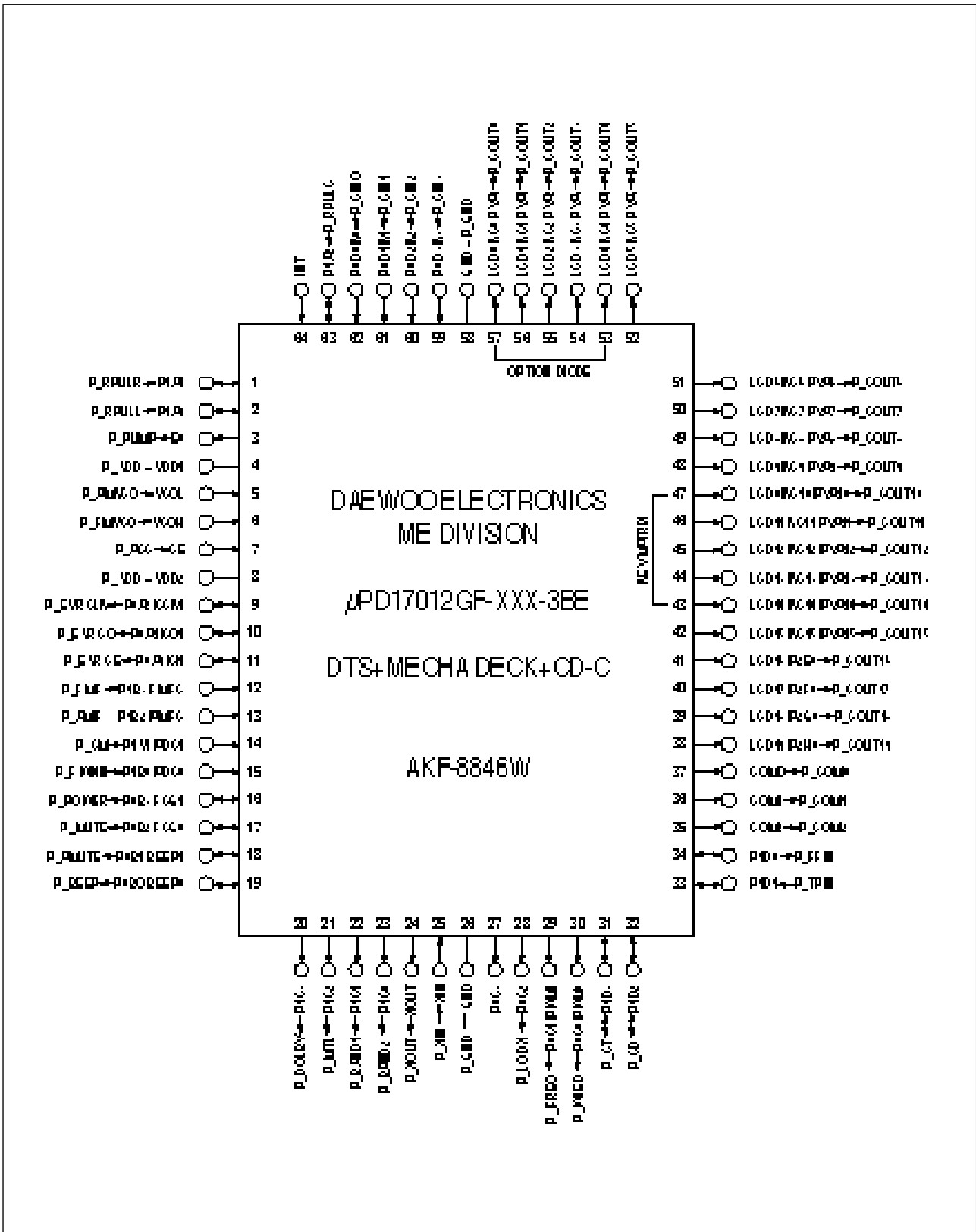


## 4-3. TAPE & AUDIO SECTION

NO.	ITEM		TEST CONDITION	UNIT	NOMINAL	LIMIT
1	WOW & FLUTTER (3,000Hz, DIN. WTD.)		MTT-111	%	0.15	≤0.35
2	TAPE SPEED ERROR (3,000Hz, DIN. WTD.)		MTT-111	%	+1.0	-1.0,+3.0
3	S/N RATIO		MTT-112B	dB	50	≥45
4	T.H.D.		MTT-118	%	1.0	≤2.0
5	CHANNEL SEPARATION		MTT-141	dB	40	≥30
6	PROGRAM CLOSSTALK		MTT-121	dB	40	≥30
7	FREQUENCY RESPONCE Ref. 1KHz		125Hz	dB	0	±3
			8kHz	dB	0	±2
8	NOISE LEVEL		VR. MIN.	mV	1	≤3
9	OUTPUT POWER (10% THD.)		FM DEV 75KHz, 1KHz	W	18	≥16
10	OUTPUT POWER (MAX)		FM DEV 75KHz,1KHz	W	20	≥17
11	BALANCE CONTROL EFFECT		FM DEV 22.5KHz,1KHz	dB	60	≥20
12	FADER CONTROL EFFECT		FM DEV 22.5KHz,1KHz	dB	60	≥35
13	TONE CONTROL EFFECT		BASS 100Hz	dB	9	10±3
			TREBLE 10KHz	dB	9	10±3
14	CHANNEL BALANCE (L / R)	TUNER	FM DEV 22.5KHz, 1KHz	dB	0	±3
		TAPE	MTT-118 1KHz	dB	0	±3
15	LEVEL BALANCE	FM	DEV 22.5KHz,. 1KHz	dB	0	±3
		AM	MOD 30%, 400Hz	dB	0	±3
		TAPE	MTT-118 1KHz	dB	0	0

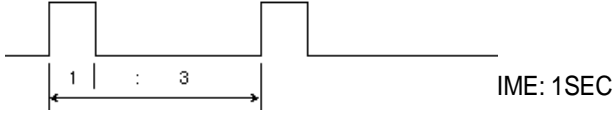
# 5. MICOM PIN CONFIGURATION & DESCRIPTIONS

## 5-1. PIN CONFIGURATIONS (IC305)



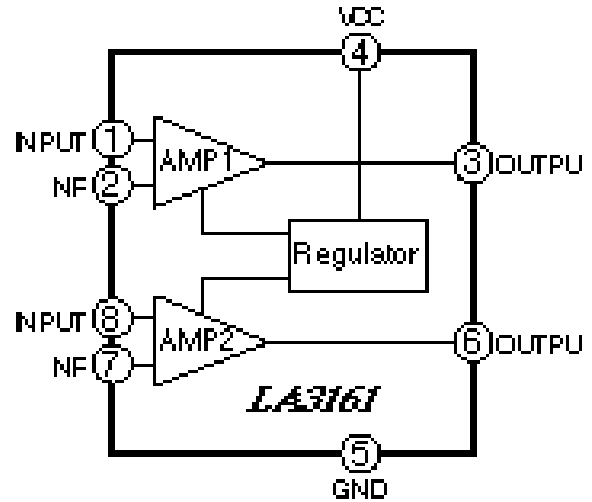
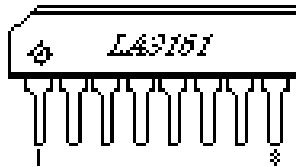
## 5-2. PORT DESCRIPTION

PIN	ASSIGN	NAME	I/O	DESCRIPTION															
25 24	P_XIN P_XOUT	XIN XOUT	I O	4.5 MHz CRYSTAL IN/OUT PORT.															
3	P_PUMP	E0	O	PHASE COMPARATOR OUTPLIT PORT.															
26 58 4 8	P_GND P_GND P_VDD P_VDD	GND GND VDD1 VDD2		GND & VDD (+5V)															
6	P_FMVCO	VCOH	I	FM OSC INPUT PORT. RANGE: 0.07~1.5Vrms															
5	P_AMVCO	VCOL	I	AM OSC INPUT PORT. RANGE: 0.07~1.5Vrms															
12	P_FMIF	P1B3/FMIFC	I	FM IF COUNT INPUT PORT. RANGE: 10.7MHz±30KHz, Vpp=0.07~1.5Vrms															
13	P_AMIF	P1B2/AMIFC	I	AM IF COUNT INPUT PORT RANGE: (MW)450KHz±1KHz(AM) (LW)450KHz±0.37KHz, Vpp=0.07~1.5Vrms															
7	P_ACC	CE	I	BACK UP MODE CONTROL PORT. HIGH INPUT: OPERATION LOW INPUT: BACK-UP MODE															
29	P_IFREQ	P0C1/PWM1	O	IF REQUEST PORT.															
17	P_PMUTE	P0B2/FCG0	O	POWER MUTE PORT, ACTIVE HIGH															
18	P_AMUTE	P0B1/BEEP1	O	AUDIO MUTE PORT, ACTIVE HIGH															
19	P_BEEP	P0B0/BEEP0	O	BEEP OUTPUT PORT. (FREQUENCY: 2.08KHz)															
22 23	P_BAND1 P_BAND2	P1C1 P1C0	O O	BAND SELECT PORT. <table style="margin-left: 40px; border-collapse: collapse;"> <tr> <td></td> <td>RESET</td> <td>FM</td> <td>MW</td> <td>LW</td> </tr> <tr> <td>BAND1:</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> </tr> <tr> <td>BAND2:</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> </table>		RESET	FM	MW	LW	BAND1:	0	1	0	0	BAND2:	0	0	0	1
	RESET	FM	MW	LW															
BAND1:	0	1	0	0															
BAND2:	0	0	0	1															
31	P_ST	P1D3	I	FM STEREO INPUT PORT. INITIAL: HIGH, STEREO ON: LOW															
32	P_SD	P1D2	I	SIGNAL DETECTION PORT. INITIAL: LOW ACTIVE: HIGH															
14	P_M	P1V1/ADC1	I	SIGNAL METER INPUT PORT.															
28	P_LO/DX	P0C2	O	LOCAL MODE - HIGH, DX MODE - LOW INITIAL: LOW															
16	P_POWER	P0B3/FCG1	O	POWER CONTROL PORT. POWER OFF - LOW, POWER ON - HIGH															
21	P_MTL	P1C2	O	METAL ON/OFF CONTROL PORT INITIAL: LOW, ACTIVE: HIGH															
27	N•C	P0C2	O	NO CONNECTION															

PIN	ASSIGN	NAME	I/O	DESCRIPTION
30	P_WLED	P0C0/PWM0	O	WARNING LED OUT PORT. 
33	P_TPIN	P1D1	I	TAPE INSERT/EJECT CHECK PORT.
15	P_FWDIN	P1B0/ADC0	I	TAPE FWD/RVS PLAY INPUT PORT. REVERSE: HIGH, FORWARD: LOW
34	P_FFIN	P1D0	I	TAPE PLAY/FF INPUT PORT. PLAY: LOW, FF: HIGH
20	P_DOLBY	P1C3	O	DOLBY ON/OFF CONTROL PORT. INITIAL: LOW, ACTIVE: HIGH
10 9 11	P_EVR SO P_EVR CLK P_EVR CE	P0A1/SO1 P0A2/SCK1 P0A0/SI1	O O O	EVR IC INTERFACE PORTS.
1 2 63	P_RPULR P_RPULL P_RPULS	P1A1 P1A0 P1A2	I I I	ROTARY PULSE INPUT PORT.
37 36 35	P_COM0 P_COM1 P_COM2	COM0 COM1 COM2	O O O	COMMON OUTPUT PORT.
62 61 60 59	P_SIN0 P_SIN1 P_SIN2 P_SIN3	P0D0/K0 P0D1/K1 P0D2/K2 P0D3/K3	I I I I	LCD, KEY MATRIX & OPTION DIODE INPUT PORT.
57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38	P_SOUT0 P_SOUT1 P_SOUT2 P_SOUT3 P_SOUT4 P_SOUT5 P_SOUT6 P_SOUT7 P_SOUT8 P_SOUT9 P_SOUT10 P_SOUT11 P_SOUT12 P_SOUT13 P_SOUT14 P_SOUT15 P_SOUT16 P_SOUT17 P_SOUT18 P_SOUT19	LCD0/KS0 LCD1/KS1 LCD2/KS2 LCD3/KS3 LCD4/KS4 LCD5/KS5 LCD6/KS6 LCD7/KS7 LCD8/KS8 LCD9/KS9 LCD10/KS10 LCD11/KS11 LCD12/KS12 LCD13/KS13 LCD14/KS14 LCD15/KS15 LCD16/P2E0 LCD17/P2F0 LCD18/P2G0 LCD19/P2H0	O O O O O O O O O O O O O O O O O O O O	LCD, KEY MATRIX & OPTION DIODE OUTPUT PORT.
64	INT		I	INTERLOCK PORT

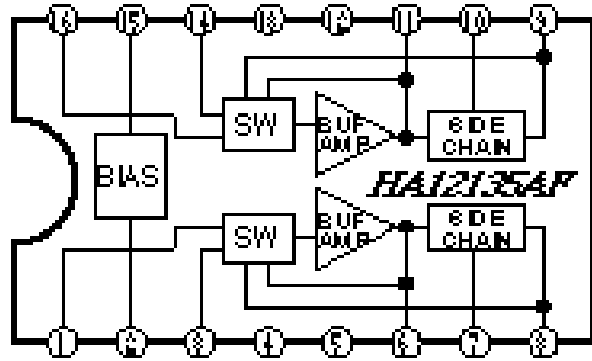
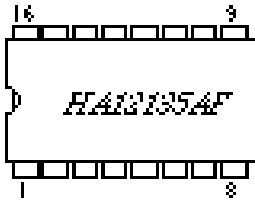
# 6. IC BLOCK DIAGRAM & TERMINAL VOLTAGE

## IC 301 (LA3161)



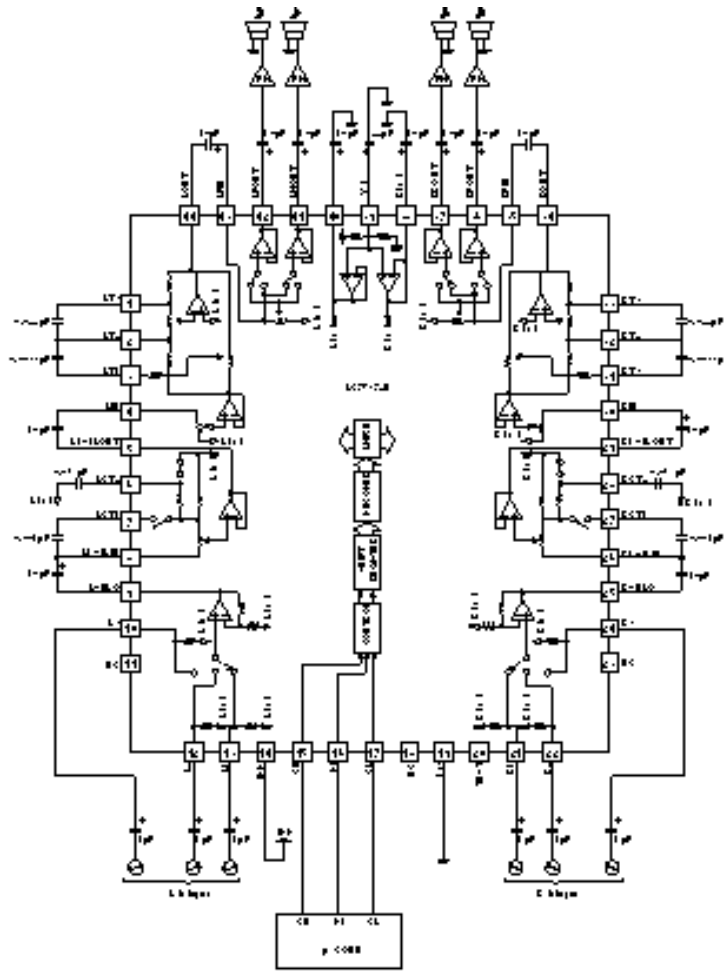
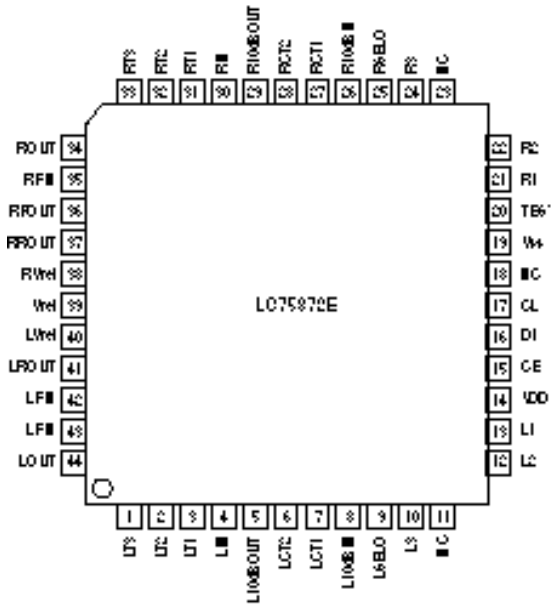
PIN NO.	PIN NAME	DESCRIPTION	I/O	VOLTAGE
1	INPUT	R-CH INPUT	O	1.3V
2	N.F	N. FEED BACK		0.7V
3	OUTPUT	R-CH OUTPUT	O	2.9V
4	VCC	VCC	I	10.5V
5	GND	GROUND		0V
6	OUTPUT	L-CH OUTPUT	O	2.9V
7	N.F	N. FEED BACK		0.7V
8	INPUT	L-CH INPUT	I	1.3V

## IC 302 (HA12135AF)



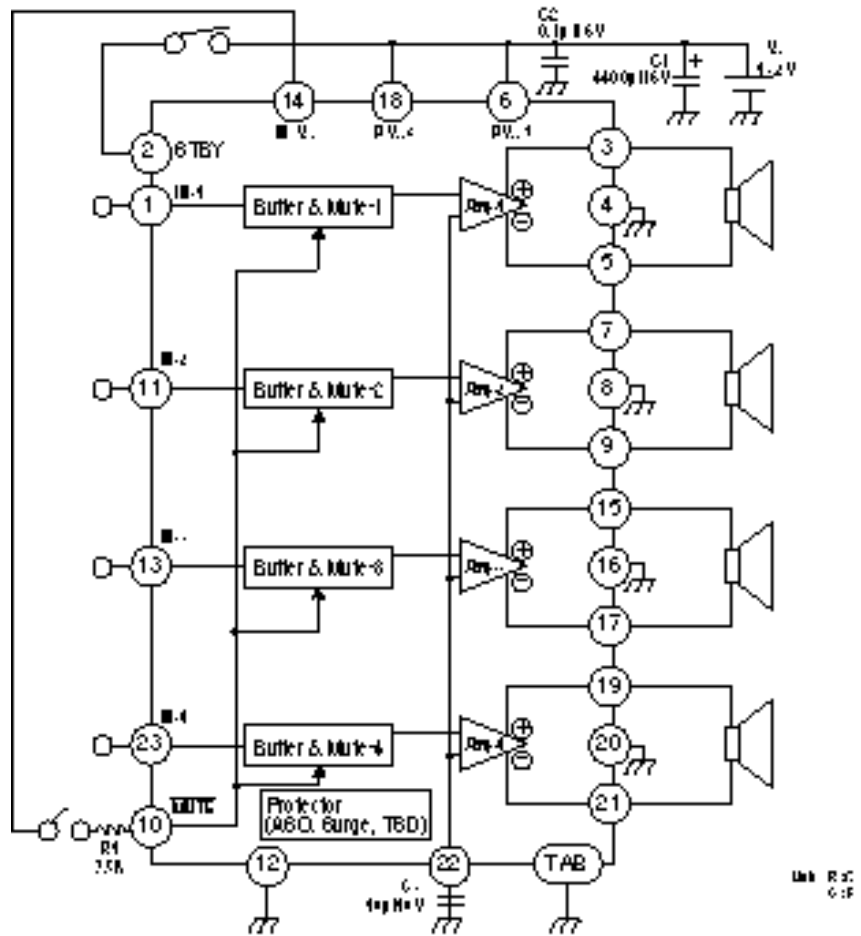
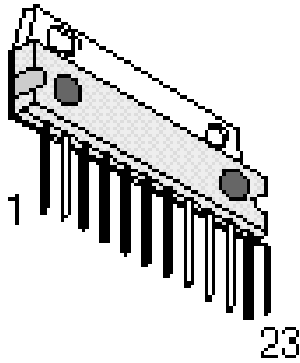
PIN NO.	PIN NAME	DESCRIPTION	I/O	VOLTAGE
1, 16	REC IN	RECODING INPUT	I	5.5V
2	VCC	POWER	I	11V
3, 14	PB IN	PLAYBACK INPUT	I	5.5V
4	Vref	BEEFERENCE VOLTAGE		5.3V
5	NR ON/OFF	NR ON/OFF MODE CONTROL	I	4.6V/0.4V
6, 11	PB OUT	PLAYBACK OUTPUT	O	5.4V
7, 10	DET	Time constant pin for the level detector		1.2V
8, 9	REC OUTPUT	RECORDING OUTPUT		5.5V
12	REC/PB	REC/PB CONTROL PORT PB(PLAYBACK) CONTROL PORT		0.4V
13	BIAS	Reference current input pin for the active filters		0.9V
15	GND	GROUND		0V

# IC 303 (LC75372E)

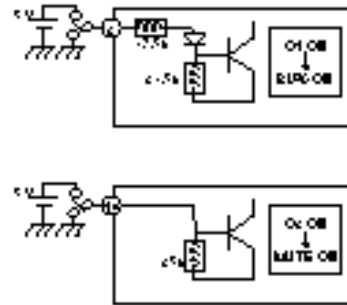


PIN NO.	PIN NAME	VOLTAGE	PIN NO.	PIN NAME	VOLTAGE
1, 33	L/R T3	4.3V	12, 22	L2/R2	4.3V
2, 32	L/R T2	4.3V	13, 21	L1/R1	4.3V
3, 31	L/R T1	4.3V	14	VDD	9V
4, 30	L/R IN	4.3V	15	CE	0V
5, 29	L/R 10dB OUT	4.3V	16	DI	0V
6, 28	L/R CT2	4.3V	17	CL	0V
7, 27	L/R CT1	0.3V	18	N.C	0V
8, 26	L/R 10dB IN	4.3V	19	VSS	0V
9, 25	L/R SELO	4.3V	20	TEST	0.5V
10, 24	L3/R3	4.3V	34, 44	L/R OUT	4.3V
11, 23	N.C	0	35, 43	L/R FIN	4.3V
36, 42	L/R FOUT	4.3V	38, 40	L/R Vref	4.3V
37, 41	L/R ROUT	4.3V	39	Vref	4.3V

# IC 304 (HA13158)



- Note:**
- Standby**  
Power is turned on when a signal of 3.5 V or 0.05 mA is impressed at pin 2. When pin 2 is open or connected to GND, standby is turned on (output off).
  - Muting**  
Muting is turned off (output on) when a signal of 3.5 V or 0.2 mA is impressed at pin 10. When pin 10 is open or connected to GND, muting is turned on (output off).

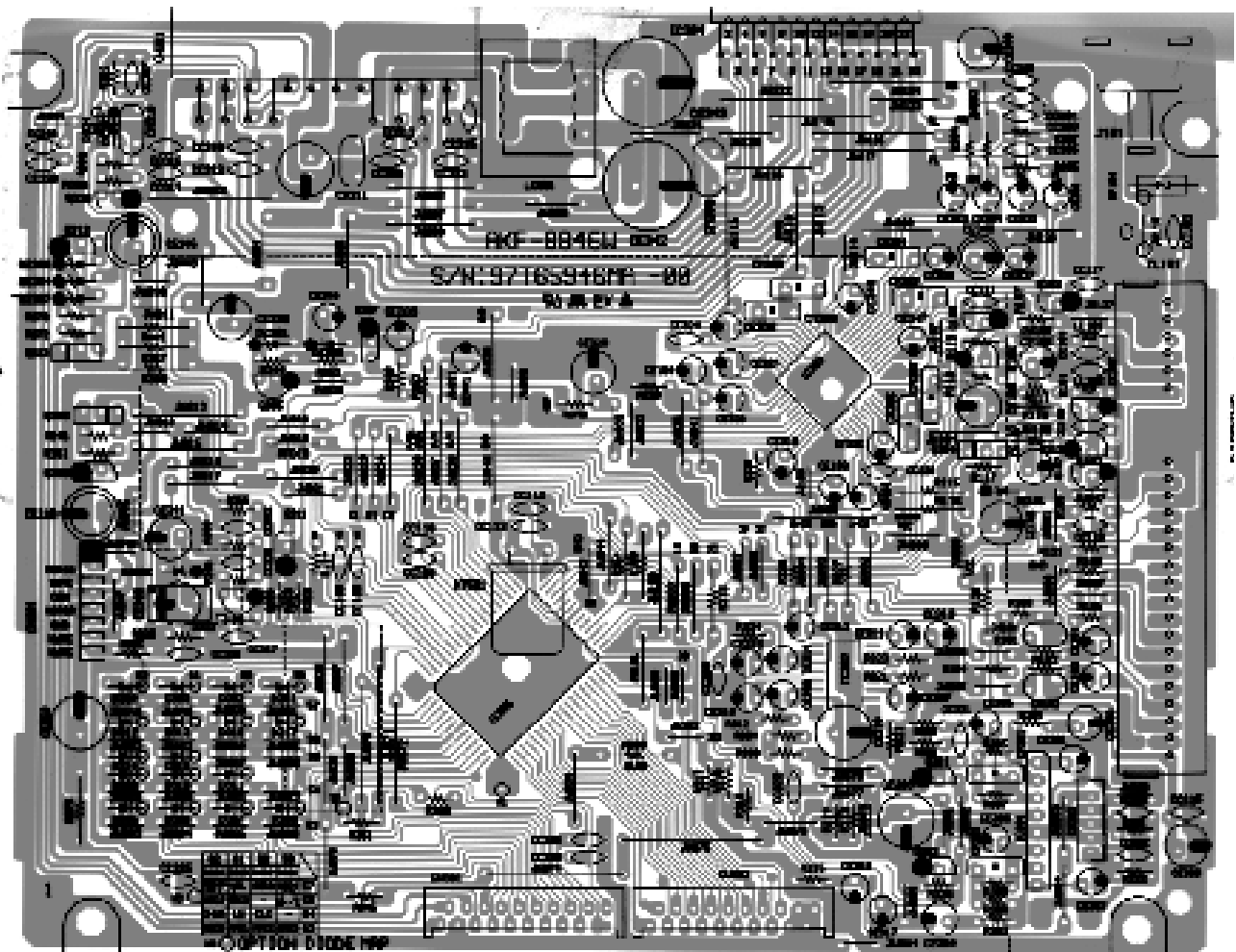


PIN NO.	PIN NAME	VOLTAGE	PIN NO.	PIN NAME	VOLTAGE
1, 11	F/R L-IN	0	22	Vref	6.5V
12, 23	F/R R-IN	0	4, 8	PGND	0
2	STBY	3.3	16, 20	PGND	0
10	MUTE	4V	3, 5	FL-OUT	6.5V
6	VCC	14.4V	7, 9	RL-OUT	6.5V
14, 18	VCC	14.4V	15, 17	RR-OUT	6.5V
12	SGND	0	19, 21	FR-OUT	6.5V

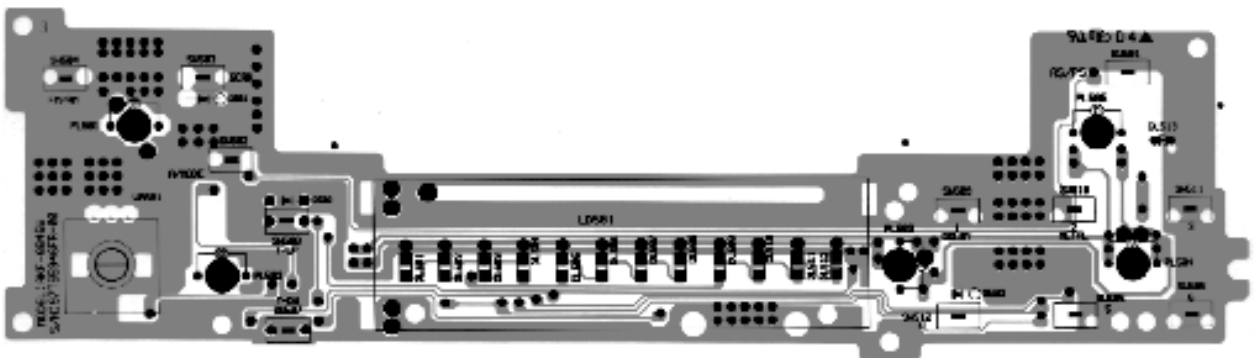


# 7. PCB PATTERN DIAGRAM

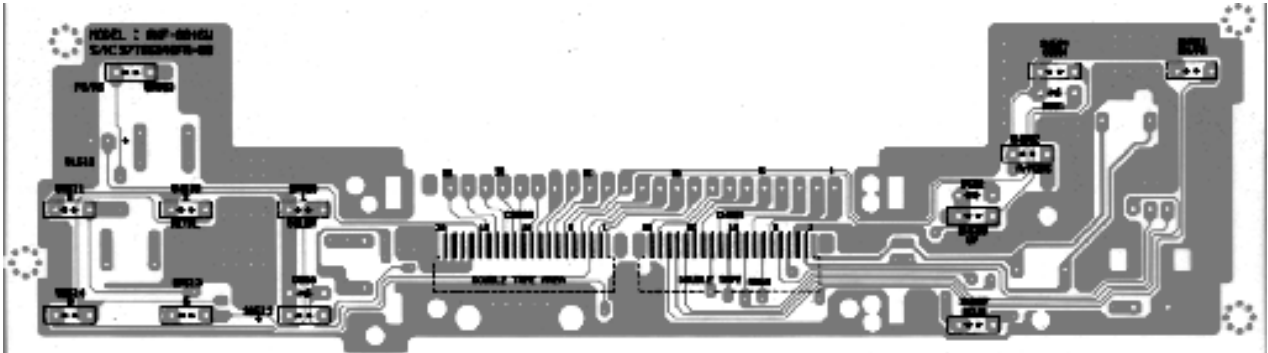
## 7-1. PCB MAIN (PART'S SIDE, TOP)



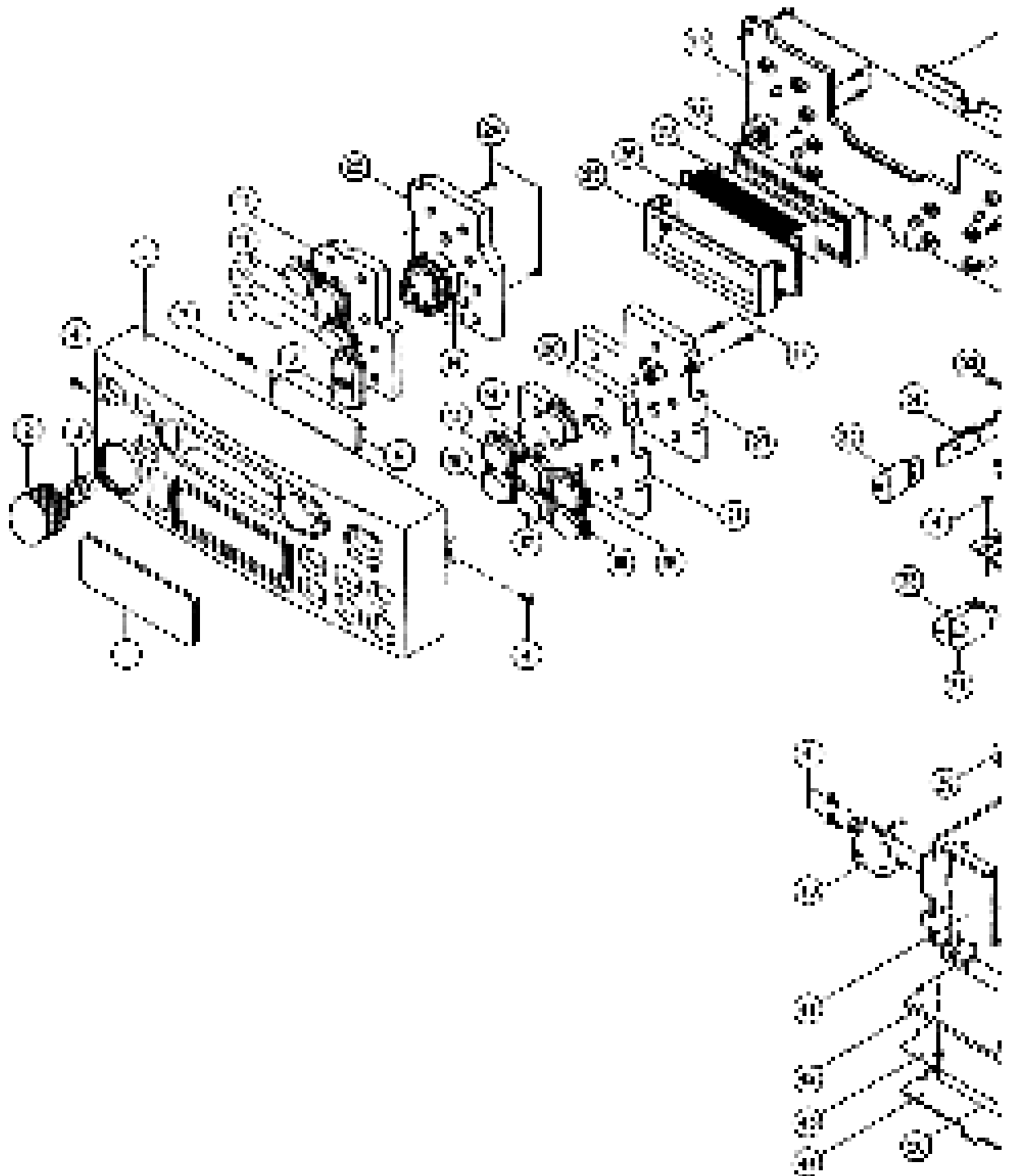
## 7-2. PCB FRONT (PART'S SIDE, TOP)

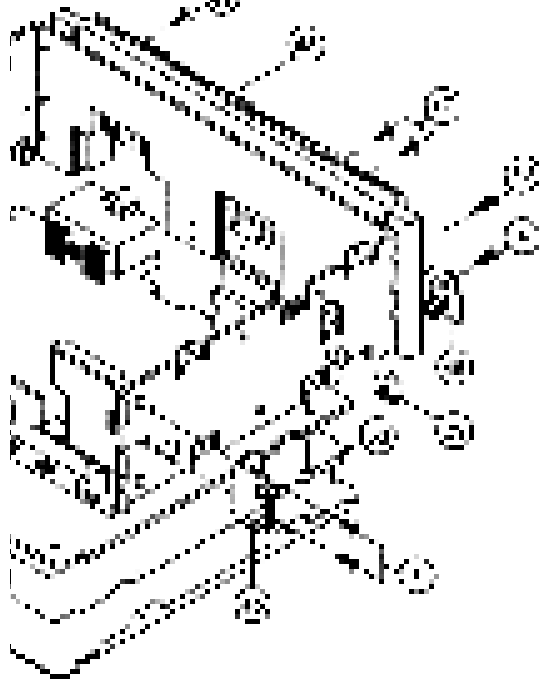
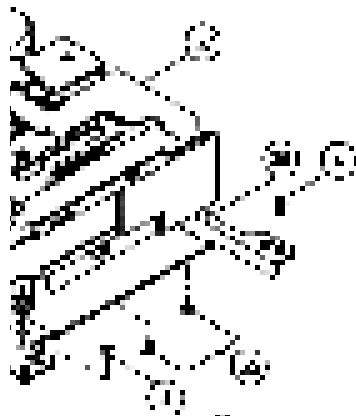
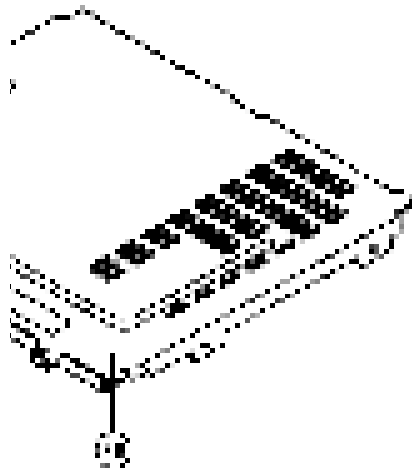


### 7-3. PCB FRONT (PART'S SIDE, BOTTOM)



# 8. OVERALL EXPLODED VIEW & PARTS LIST





NO	DESCRIPTION	QTY	UNIT	REF. DES.	REF. QTY
01	COVER TOP	1	PCB	100-1001	
02	KEYBOARD	1	ASSEMBLY	100-1002	
03	COVER BOTTOM	1	PCB	100-1003	
04	KEYBOARD	1	ASSEMBLY	100-1004	
05	COVER TOP	1	PCB	100-1005	
06	COVER BOTTOM	1	PCB	100-1006	
07	COVER TOP	1	PCB	100-1007	
08	COVER BOTTOM	1	PCB	100-1008	
09	COVER TOP	1	PCB	100-1009	
10	COVER BOTTOM	1	PCB	100-1010	
11	COVER TOP	1	PCB	100-1011	
12	COVER BOTTOM	1	PCB	100-1012	
13	COVER TOP	1	PCB	100-1013	
14	COVER BOTTOM	1	PCB	100-1014	
15	COVER TOP	1	PCB	100-1015	
16	COVER BOTTOM	1	PCB	100-1016	
17	COVER TOP	1	PCB	100-1017	
18	COVER BOTTOM	1	PCB	100-1018	
19	COVER TOP	1	PCB	100-1019	
20	COVER BOTTOM	1	PCB	100-1020	
21	COVER TOP	1	PCB	100-1021	
22	COVER BOTTOM	1	PCB	100-1022	
23	COVER TOP	1	PCB	100-1023	
24	COVER BOTTOM	1	PCB	100-1024	
25	COVER TOP	1	PCB	100-1025	
26	COVER BOTTOM	1	PCB	100-1026	
27	COVER TOP	1	PCB	100-1027	
28	COVER BOTTOM	1	PCB	100-1028	
29	COVER TOP	1	PCB	100-1029	
30	COVER BOTTOM	1	PCB	100-1030	
31	COVER TOP	1	PCB	100-1031	
32	COVER BOTTOM	1	PCB	100-1032	
33	COVER TOP	1	PCB	100-1033	
34	COVER BOTTOM	1	PCB	100-1034	
35	COVER TOP	1	PCB	100-1035	
36	COVER BOTTOM	1	PCB	100-1036	
37	COVER TOP	1	PCB	100-1037	
38	COVER BOTTOM	1	PCB	100-1038	
39	COVER TOP	1	PCB	100-1039	
40	COVER BOTTOM	1	PCB	100-1040	
41	COVER TOP	1	PCB	100-1041	
42	COVER BOTTOM	1	PCB	100-1042	
43	COVER TOP	1	PCB	100-1043	
44	COVER BOTTOM	1	PCB	100-1044	
45	COVER TOP	1	PCB	100-1045	
46	COVER BOTTOM	1	PCB	100-1046	
47	COVER TOP	1	PCB	100-1047	
48	COVER BOTTOM	1	PCB	100-1048	
49	COVER TOP	1	PCB	100-1049	
50	COVER BOTTOM	1	PCB	100-1050	
51	COVER TOP	1	PCB	100-1051	
52	COVER BOTTOM	1	PCB	100-1052	
53	COVER TOP	1	PCB	100-1053	
54	COVER BOTTOM	1	PCB	100-1054	
55	COVER TOP	1	PCB	100-1055	
56	COVER BOTTOM	1	PCB	100-1056	
57	COVER TOP	1	PCB	100-1057	
58	COVER BOTTOM	1	PCB	100-1058	
59	COVER TOP	1	PCB	100-1059	
60	COVER BOTTOM	1	PCB	100-1060	
61	COVER TOP	1	PCB	100-1061	
62	COVER BOTTOM	1	PCB	100-1062	
63	COVER TOP	1	PCB	100-1063	
64	COVER BOTTOM	1	PCB	100-1064	
65	COVER TOP	1	PCB	100-1065	
66	COVER BOTTOM	1	PCB	100-1066	
67	COVER TOP	1	PCB	100-1067	
68	COVER BOTTOM	1	PCB	100-1068	
69	COVER TOP	1	PCB	100-1069	
70	COVER BOTTOM	1	PCB	100-1070	
71	COVER TOP	1	PCB	100-1071	
72	COVER BOTTOM	1	PCB	100-1072	
73	COVER TOP	1	PCB	100-1073	
74	COVER BOTTOM	1	PCB	100-1074	
75	COVER TOP	1	PCB	100-1075	
76	COVER BOTTOM	1	PCB	100-1076	
77	COVER TOP	1	PCB	100-1077	
78	COVER BOTTOM	1	PCB	100-1078	
79	COVER TOP	1	PCB	100-1079	
80	COVER BOTTOM	1	PCB	100-1080	
81	COVER TOP	1	PCB	100-1081	
82	COVER BOTTOM	1	PCB	100-1082	
83	COVER TOP	1	PCB	100-1083	
84	COVER BOTTOM	1	PCB	100-1084	
85	COVER TOP	1	PCB	100-1085	
86	COVER BOTTOM	1	PCB	100-1086	
87	COVER TOP	1	PCB	100-1087	
88	COVER BOTTOM	1	PCB	100-1088	
89	COVER TOP	1	PCB	100-1089	
90	COVER BOTTOM	1	PCB	100-1090	
91	COVER TOP	1	PCB	100-1091	
92	COVER BOTTOM	1	PCB	100-1092	
93	COVER TOP	1	PCB	100-1093	
94	COVER BOTTOM	1	PCB	100-1094	
95	COVER TOP	1	PCB	100-1095	
96	COVER BOTTOM	1	PCB	100-1096	
97	COVER TOP	1	PCB	100-1097	
98	COVER BOTTOM	1	PCB	100-1098	
99	COVER TOP	1	PCB	100-1099	
100	COVER BOTTOM	1	PCB	100-1100	

# 9. ELECTRICAL PARTS LIST

## 9-1. ASSY MAIN PCB

LOCATION	CODE	DESCRIPTION	REMARK
CE342,343	CCXE1C332E	SD16V3300UF	
CN301	97T8857100	E7P20(B)70M7P20(H)	
CW301	97T6228800	18P WAFER	
CW302	87T8857200	E5P20(H)100	
CW501, 502	97T6220200	20P ANGLE	
DP101	DPS301NS0B	DSP301N-S00B	
J101	97T6367700	3/11.1 PCB TYPE	
TU101	97T7610000 97T7610700	KCC-1502(2BAND) KCC-1503(3BAND)	AKF-8846 AKF-8847
LC501	5LC301PA18	EI-19mm 300uH	
B0001	97T65946MA	197X330XT1.6/2	
Q308	TZ2SB1240R	2SB1240R	
Q105	TZTA1267Y-	KTA1267Y	
Q101, 102, 305, 306	TZTC3199Y-	KTC3199Y	
Q104, 313	TZ2SD1862R	2SD1862R	
Q311	TZRA106M--	KRA106M	
Q310, 312	TZRC102M--	KRC102M	
Q103, 1106, 307, 309	TZRC106M--	KRC106M	
Q301, 302, 107	TZRC110M--	KRC110M	
Q103	TZRC106M--	KRC106M	AKF-8847
CE331, 332, 333, 334	CEAP1H108A	0.1/50	
CE110, 353	CEXP1C471A	470/16	
CE107, 301, 302, 305, 306, 101, 102, 103 CE307, 308, 311, 312, 316, 104, 323, 324 CE318, 319, 320, 347, 348, 325, 326	CEAP1H109A	1/50	
CE105, 109, 329, 340, 349	CEAP1A101A	100/10	
CE330, 341, 345	CEAP1C470A	47/	
CE303, 304, 317	CEAP1C220A		
CE106, 315, 339, 344, 327, 328	CEAP1C100A		
CE309, 310	CEAP1C101A		
CE313, 314	CEAP1H228A		

LOCATION	CODE	DESCRIPTION	REMARK
CC111, 326, 117, 327 CC107, 116, 104, 325 CC115, 308	CCKF1E223E	HIKF 25V 0.022 $\mu$ F Z	
CC110, 319, 320	CCKB1H101K	HIKB 50V 100P K	
CC106, 105, 330 CC329, 109	CCKB1H102K	HIKB 50V 1000P K	
CC112, 113	CKCH1H150J	CH 50V 15PF J	
CC317, 328, 307	CCKF1H104Z	HIKF 25V 0.1 $\mu$ F Z	
CC108, 321, 322	CBKY1C103M	HIKB 50V 0.1 $\mu$ F M	
CC301, 302, 303 CC304, 305, 306	CCKB1H222K	HIKB 50V 2200 $\mu$ F K	
CC323, 324	CCKB1H471K	HIKB 50V 470PF K	
CM301, 302, 307, 308	CMXK1H333J	50V 0.033 $\mu$ F J	
CM101, 102	CMXK1H472J	50V 0.0047 $\mu$ F J	
CM309, 310, 311	CMXV1H104J	50V 0.1 $\mu$ F J	
CM305, 306	CMXK1H222J	50V 0.0022 $\mu$ F J	
CM303, 304	CMXK1H683J	50V 0.068 $\mu$ F J	
D301~317, 322, 324	DKSS133---	1SS 133	
DZ101, 301	DKTZ10B---	MTZ-10V	
DZ302, 303	DKTZ6R2B--	MTZ-6.2V	
DZ304, 306	DKTZ9R1B--	MTZ-9.1V	
DZ305	DKTZ5R1B--	MTZ-5.1V	
DZ307	DKTZ8R2B--	MTZ-8.2V	
LL101, 102	5LL568K02K	0.56 $\mu$ H K	
X501	5XEZ4R500E	HC-49/U 4.5MHz	
IC301	1LA3161---	LA 3161	
IC302	1HA12135AF	HA12135AF	
IC303	1LC75372E-	LC75372F	
IC304	1HA13158A-	HA13158A	
IC305	176S7012L0	UPD17012GF-607-:AKF-8846 UPD17012GF-***-:AKF-8847	

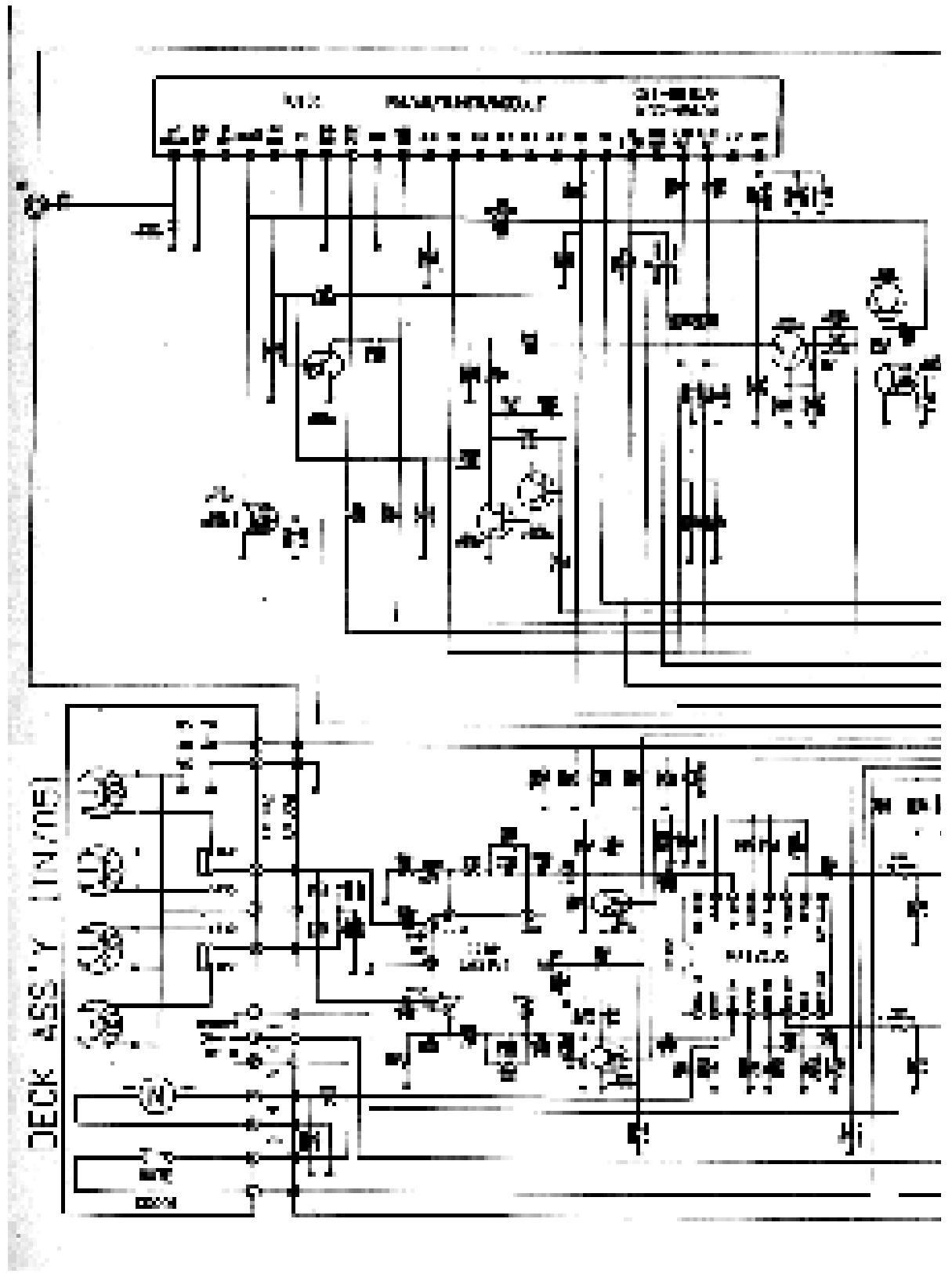
## 9-2. ASSY FRONT PCB

LOCATION	CODE	DESCRIPTION	REMARK
DL501~512	DSML210MT-	SML-210MT	
DL513	DSL22VR--	SLC-22VR	SECURITY
PL501~505	97T82L2WE6	14V 60mA D3.0 0.2C	
PL501~512	5S50101Z02	1C1P SKQC10918B	
D501, 502, 503	DKSS133---	1SS133	
VR501	5S52650AL3	RV-16086	
LD501	97T0L1420P	72X24.5 KXN312917	
W501, 502	97T8851800	FFC 20P 45mm	

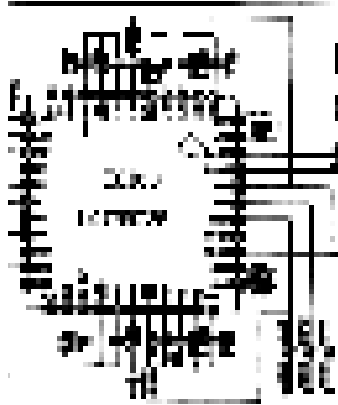
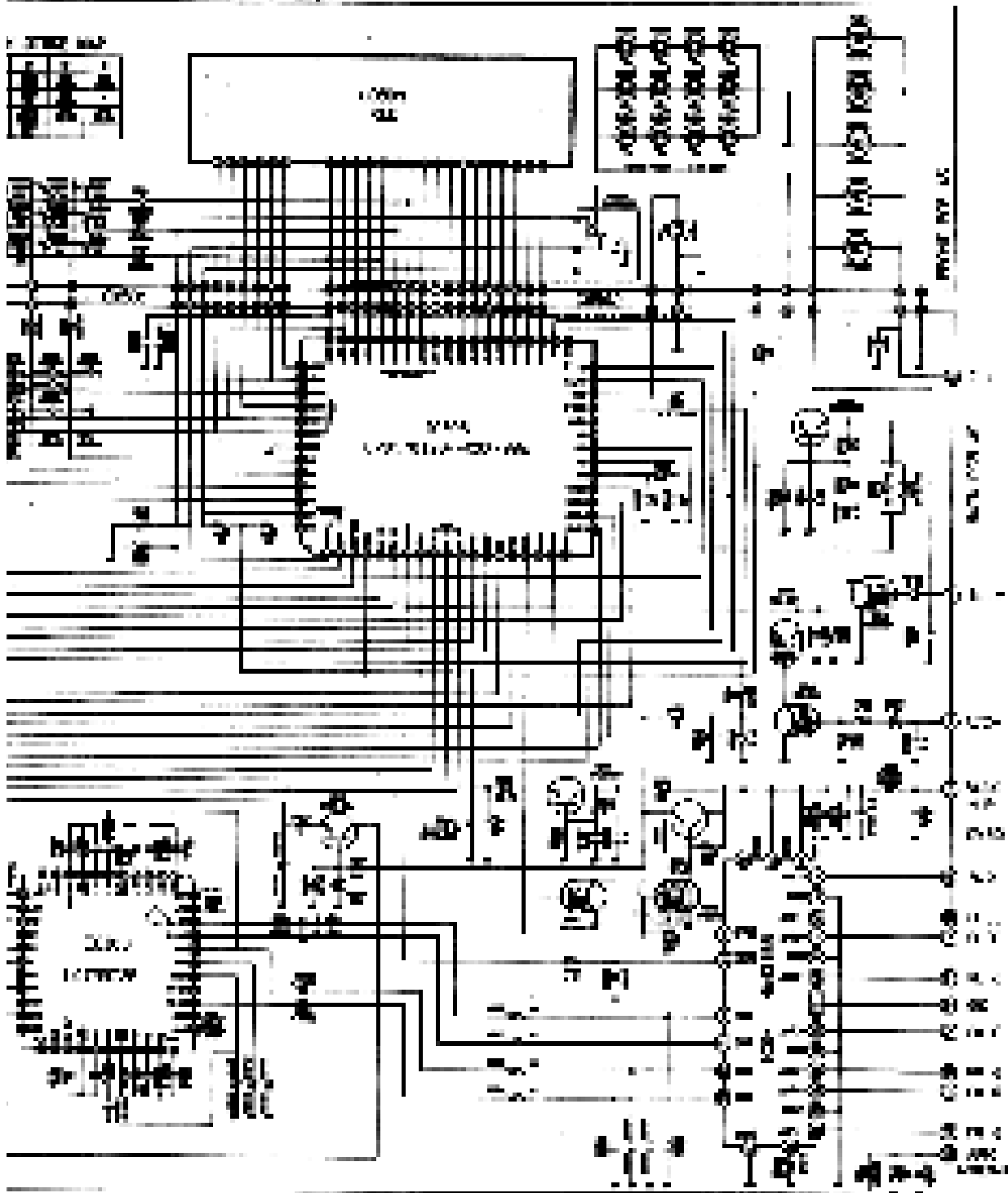
## 9-3. ASSY DECK

LOCATION	CODE	DESCRIPTION	REMARK
CN302	97T8857200	E5P20(H)100	
DK010	97T6009700	TN-705DH-136	

# 10. CIRCUIT DIAGRAM







S/M NO. : 97T9515600

**DAEWOO**

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