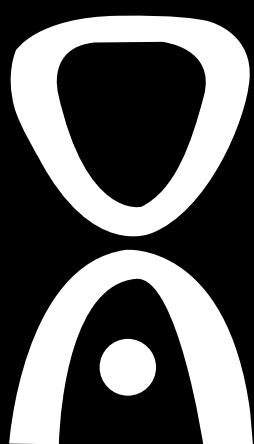


Service Manual

TP-458G



DAEWOO
DAEWOO ELECTRONICS EUROPE, GmbH



DAT H.K. LIMITED

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2 ALIGNMENT PROCEDURES

AM IF. ALIGNMENT

- 1, Set the FUNCTION switch to RADIO position.
- 2, Set the BAND Switch to AM position.
- 3, Connect a SWEEP SCOPE OUTPUT to AM standard radiating loop antenna and match the direction for built-in ferrite bar of AM antenna.
- 4, Connect a SWEEP SCOPE INPUT to pin 13 or 14 of Ic1 uf capacitor and gnd.

STEP	SET SIGNAL	SET DIAL	ADJUST	ADJUST FOR
1	465KHz	LOW-END OF BAND	T5(IFT,YELLOW)	CENTER & MAXIMUM OUTPUT

AM RF. ALIGNMENT

- 1, Connect a RF GENERATOR to the standard radiating loop antenna.
- 2, Connect a SCOPE and VTVM across the speaker output

STEP	SET	SET DIAL	ADJUST	ADJUST FOR
1	1520KHz	LOW-END	T2(AM OSC)	MAXIMUM OUTPUT
2	1620KHz	HIGH-END	PVC3 (AM OSC TRIMMER)	MAXIMUM OUTPUT
3	REPEAT	STEP 1 & 2	TO MAXIMUM	
4	612KHz	NEAR 612KHz	L104(AM SENS COIL)	MAXIMUM OUTPUT
5	1404KHz	NEAR 1404KHz	PVC4 (AM ANT TRIMMER)	MAXIMUM OUTPUT
	REPEAT	STEP 4 & 5	TO MAXIMUM	

FM IF.ALIGNMENT

- 1, Set the BAND switch to FM position.
- 2, Connect a SWEEP SCOPE OUTPUT to pin 23 of Ic1 through a 20pf capacitor and GND.
- 3, CONNECT a SWEEP SCOPE INPUT to pin 13 or 14 of Ic1 through a 1 uf capacitor and GND.

STEP	SET SIGNAL	SET DIAL	ADJUST	ADJUST FOR
1	10.7MHz		T6(FM DISCRI.,PINK)	WITH 10.7MHz AT ZERO CROSSOVER & MAKE THE CURVE TO FINER.
2	REPEAT	STEP 1 TO	FINEL	

FM RF.ALIGNMENT

- 1, Connect a RF GENERATOR to the terminal of FM telescope antenna and GND.
- 2, Connect a SCOPE and VTVM across the speaker output.

STEP	SET SIGNAL	SET DIAL	ADJUST	ADJUST FOR
1	87.5 MHz	LOW-END	L3 (FM OSC)	MAXIMUM OUTPUT
2	108MHz	HIGH-END	PVC1 (FM OSC TRIMMER)	MAXIMUM OUTPUT
3	REPEAT	STEP 1 & 2	TO MAXIMUM	
4	90.1MHz	NEAR 90.1MHz	L4(FM SENS COIL)	MAXIMUM OUTPUT
5	106.1MHz	NEAR 106.1MHz	PVC2(FM ANT TRIMMER)	MAXIMUM OUTPUT
6	REPEAT	STEP 4 & 5	TO MAXIMUM	

CASSETTE PARTS ALIGNMENT

- 1, MOTOR TURNSPEED: Adjust the screw at motor back side to make the output signal near 3KHz while play the 3KHz standard tape. it used frequency meter connected output
- 2, HEAD AZIMUTH; Adjust the screw of head azimuth to make the 6.3KHz signal to maximum. It play the 6.3KHz standard tape and used VTVM connected output.

1 PRODUCT DESCRIPTION

MODEL:TP-458G

1 Features:

- Top loading CD player with programmable CD memories
- CD/CD-R/RW disc compatible
- LCD digital display
- AM/FM analogue tuner or analogue tuning with digital frequency display
- Telescopic antenna
- Dynamain bass boost system

2 SPECIFICATIONS

- Output power :1W x2 (Max)
- Power supply:
AC 230V~60Hz , DC 12V (UM x 8)
- Dimensions:
Main unit :270W x 139H x 248D mm

3 PRODUCT SPECIFICATIONS

VOLTAGE: AC 230V / 50Hz LOAD : 4 ohm Ref. Out : 50mW					
FUNCTION: FM			MODEL: TP-458G		
MEASURING ITEMS	CONDITION	UNIT	NORMAL	LIMIT	TEST CONDITION
FREQUENCY RANGE	LOW END	MHz	87.5	+/-0.3	
	HIGH END	MHz	108.50	+/-0.3	
INTERMEDIATE FREQ		MHZ	10.7	+/-0.1	
MAX. SENSITIVITY	90 MHz	dB	16	20	
	98 MHz	dB	16	20	
	106 MHz	dB	16	20	
-30dB QUIETING SENSITIVITY	90 MHz	dB	22	26	
	98 MHz	dB	22	26	
	106 MHz	dB	22	26	
DIAL CALIBRATION	ALL POINTS	MHz		<0.5	
IMAGE REJECTION	90 MHz	dB	26	20	
	98 MHz	dB	26	20	
	106 MHz	dB	26	20	
I.F.REJECTION	90 MHz	dB	65	55	
SPURIOUS REJECTION	98 MHz	dB	55	45	
-3dB LIMITING SENS	98 MHz	dB	25	30	
-3dB AFC HOLDING RANGE	98 MHz	KHz	450	350—600	
AM SUPPRESSION	98 MHz	dB	40	30	
RF OVERLOAD DIST.	98 MHz	%	3	5	100dB 75KHZ DEV
10% DIST. O/P POWER	98 MHz	mW	800	600	*1KHZ;__400HZ 75KHZ DEV
MAX. O/P POWER	98MHz	mW	1000	800	*1KHZ;__400HZ 75KHZ DEV
MAX O/P DIST.(BASS BOOST OFF)	98 MHz	%	10	15	*1KHZ;__400HZ 75KHZ DEV
-3dB AUDIO FIDELITY	LOW FREQ	Hz	200	250	75uS -EMPHASIS
	HIGH FREQ	Hz	4.2K	3.5K	VOL AT 75 POSITION
S/N RATIO	98 MHz	dB	45	40	22.5KHZ DEV. 1MV
DIST.AT REB O/P	98 MHz	%	1	3	
MODULATION HUM	98 MHz	dB	50	40	22.5KHZ DEV. 100dB
AUTO TUNING SEEK SENS	90 MHz	dB	23	28	
	98 MHz	dB	23	28	
	106 MHz	dB	23	28	
AUTO SEEK ACCURACY		KHz	--	--	

3 PRODUCT SPECIFICATION(2)

FM MPX SPECIFICATION

Temp 23 °C Humidity 85 %
A.C 230 V 50Hz D.C 12 V
LOADS 8 ohm Ref.out 50 mW

MEASURING ITEMS	CONDITION	UNIT	NORMAL	LIMIT	TEST CONDITION
MAX.SENSITIVITY	90MHZ	dB	--	--	75KHZ DEV
	98MHZ	dB	--	--	
	106MHZ	dB	--	--	
-30dB S/N SENS.	90MHZ	dB	24	30	
	98MHZ	dB	24	30	
	106MHZ	dB	24	30	
STEREO SEPARATION	100HZ	dB	26	20	WITH 19KHZ FILTER
	1kHz	dB	26	20	
	10KHZ	dB	26	20	
STEREO LIGHT SENS.	98MHZ	dB	24	30	
PILOT SIGNAL REJECTION	98MHZ	dB	40	35	75KHZ DEV.1MV
STEREO S/N RATIO	98MHZ	dB	--	--	75KHZ DEV.1MV WITH 19KHZ FILTER
MONO/STEREO O/P DIFFERENCE	98MHZ	dB	0	<3	
THD AT STANDARD OUTPUT	98MHZ	%	3	<5	WITH 19KHZ FILTER
ST-VCO FREQ.TEMP.DRIFT	76KHZ	HZ			AT 25°C +/-25°C
MIN.PILOT SIGNAL LEVEL		%	5	7	ST.LED START LIGHT UP

REMARK: MOD. DESCRIPTION L+R L-R PILOT
..... 45% 45% 10%

MEMORY BACK UP SPECIFICATION

MEASURING ITEMS	UNIT	NORMAL	LIMIT	TEST CONDITION
MEMORY BACKUP CURRENT WITH BATTERY	mA	--	--	DISCONNECT AC POWER
TUNER PRESET STATION BACK UP TIME	MIN	--	--	DISCONNECT AC POWER AND WITHOUT BATTERY

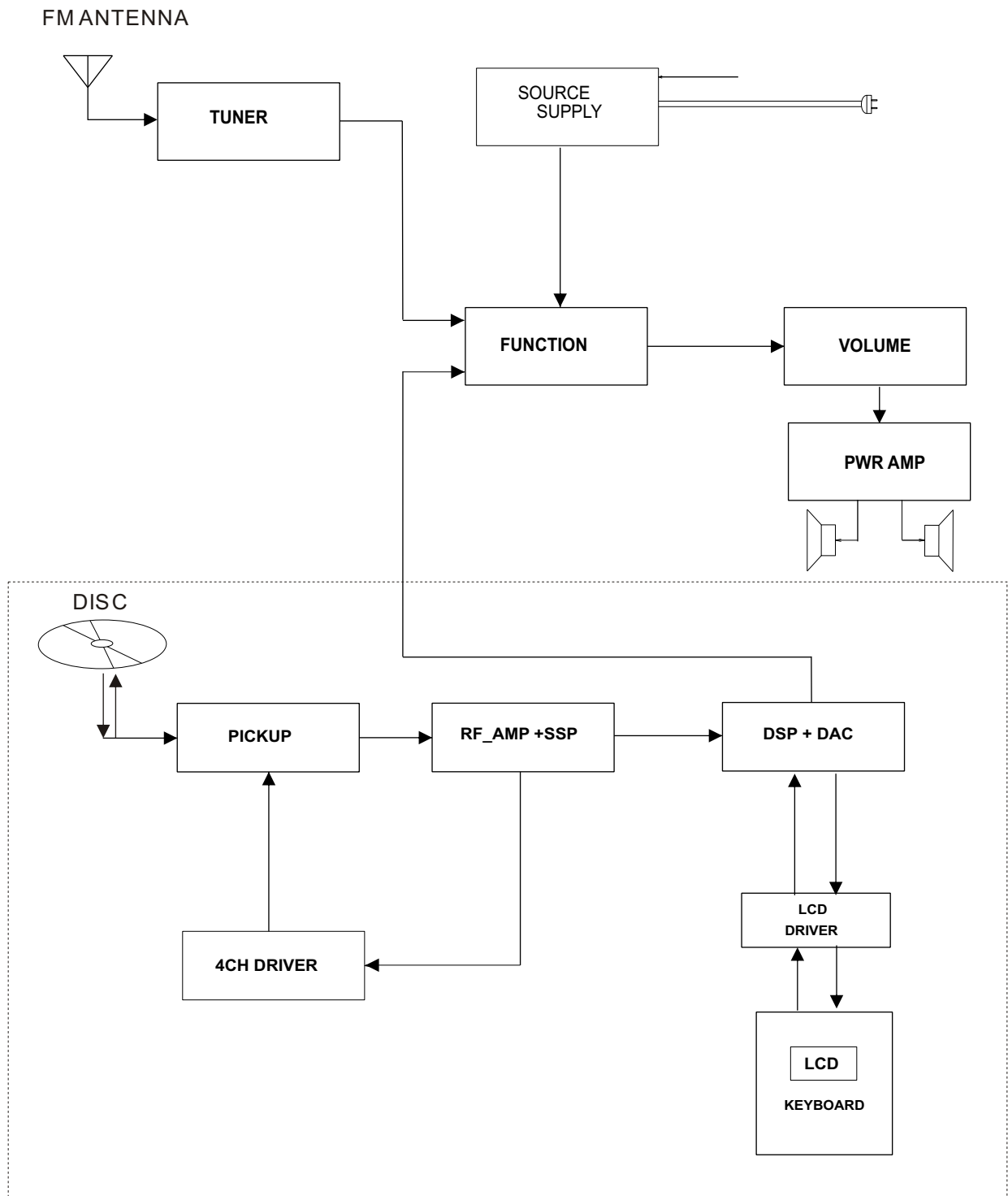
3 PRODUCT SPECIFICATIONS

VOLTAGE: AC 230V / 50Hz LOAD : 4 ohm Ref. Out : 50mW					
FUNCTION: AM			MODEL: TP-458G		
MEASURING ITEMS	CONDITION	UNIT	NORMAL	LIMIT	TEST CONDITION
FREQUENCY RANGE	LOW END	KHz	525	+/-5	
	HIGH END	KHz	1735	+/-15	
INTERMEDIATE FREQ		KHz	465	+/-3	
MAX.SENSITIVITY	600 KHz	dB	50	58	
	1000 KHz	dB	50	58	
	1400 KHz	dB	50	58	
-20 dB QUIETING SENSITIVITY	600 KHz	dB	58	64	
	1000 KHz	dB	58	64	
	1400 KHz	dB	58	64	
DIAL CALIBRATION	ALL POINTS	KHz		<30	POINTER WITHIN LETTERING
IMAGE REJECTION	600 KHz	dB	50	40	
	1000 KHz	dB	45	35	
	1400 KHz	dB	45	35	
I.F.REJECTION	600 KHz	dB	45	40	
-6Db BAND WIDTH	1000 KHz	KHz		4-8	
ACA +/-10KHZ	1000 KHz	dB	20	15	
AGC FIGURE OF MERIT	1000 KHz	dB	35	28	100 dB /M
RF OVERLOAD DIST.	1000 KHz	%	3	5	100dB /M 60% MOD
10% DIST. O/P POWER	1000 KHz	MW	800	600	1KHZ;___400HZ 80% MOD.
MAX. O/P POWER	1000 KHz	MW	1000	800	1KHZ;___400HZ 80%MOD.
MAX.O/P DIS	1000 KHz	%	15	18	1KHZ;___400HZ 80%MOD.
-6dB AUDIO FIDELITY	LOW FREQ	Hz	100	150	VOL.AT 75% POSITION
	HIGH FREQ	kHz	3K	2K2	ADJUST MOD. TO REF
TWEET AT 1MV/M -5MV/M	2 IF	%		<10	
	3 IF	%		<10	
S/N WITH 74dB/M	1000 KHz	dB	35	30	
DIST.AT REB O/P	1000KHz	%	3	5	
MODULATION HUM 100dB/m	1000KHz	dB	40	35	
MIN.VOL .FEEDTHROUGH NOISE HUM	MIN. VOL	mV	1	3	
AUTO TUNING SEEK SENS	600 KHZ	dB	--	--	
	1000 KHZ	dB	--	--	
	1400KHZ	dB	--	--	
AUTO SEEK ACCURACY		KHz	--	--	

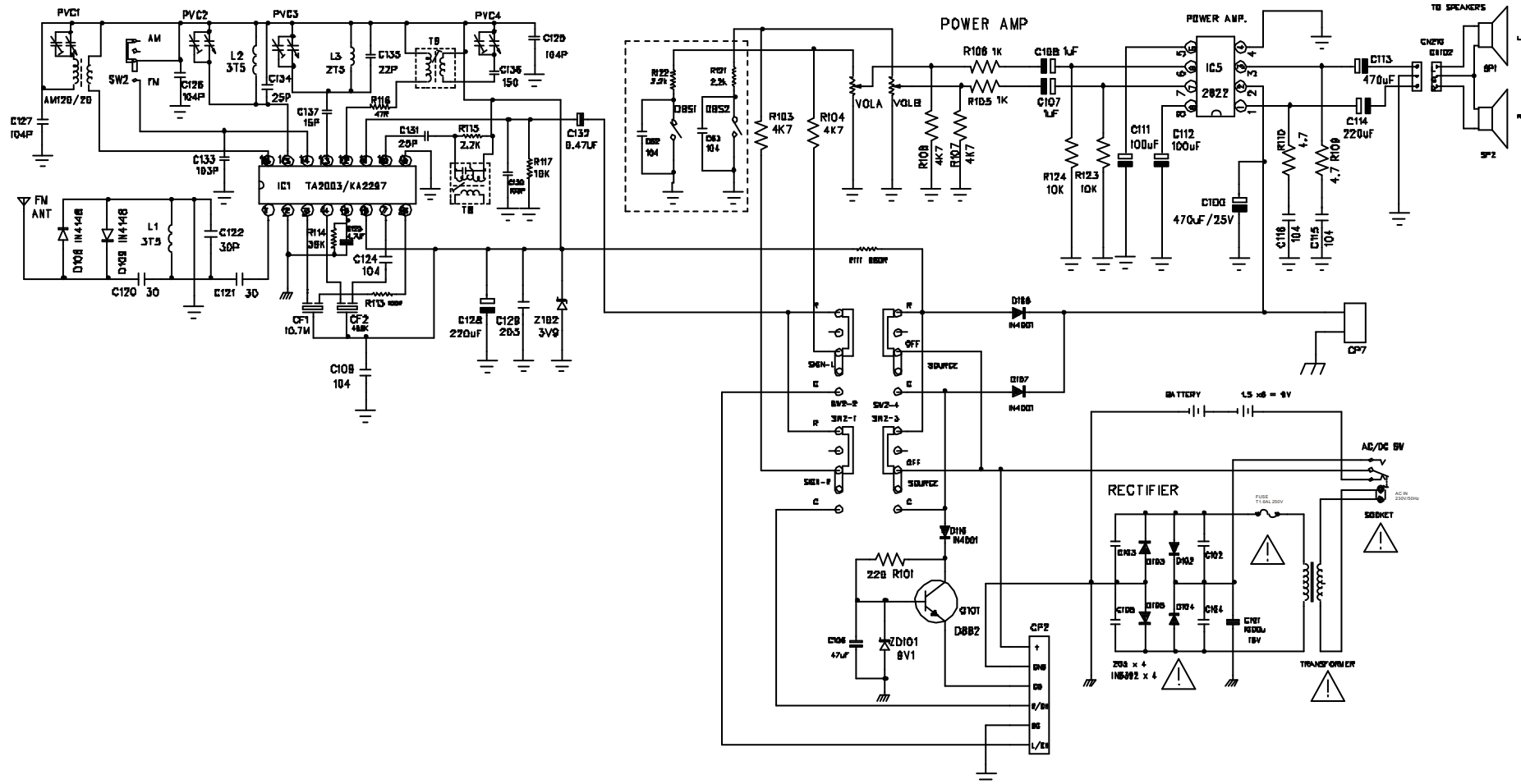
3 PRODUCT SPECIFICATIONS

VOLTAGE: AC 230V / 50Hz						
LOAD : 4 ohm Ref. Out : 50mW						
FUNCTION: CD				MODEL: TP-458G		
MEASURING ITEMS		CONDITION	UNIT	NOMINAL	LIMIT	TEST CONDITION
CD MAX. OUTPUT POWER			mW	1000	800	TCD-784 0dB
CD 10% THD OUTPUT POWER			mW	800	600	TCD 784 0dB
CD LINE OUT VOLTAGE			V	--		0dB 1KHZ TCD-784
MAX.O/P DIS(BASS BOOST.OFF)		1kHz.0dB	%	20	25	TCD-784 0dB
THD AT REB OUTPUT		1KHz	%	1	2	TCD-784 W /LOW
SEPARATION		1KHz	dB	40	35	TCD-784(SPK O/P)
S/N RATIO		1KHz	dB		>50	TCD-784(SPK O/P)
INTERRUPTIONS	SCRATCH		mm	0.8	0.6	PHILIPS 444A
	BLACK DOT		mm	0.8	0.6	
	FINGER PRINT		mm	ALL		
DYNAMIC RANGE			dB		>45	TCD-782(SPK O/P)
INITIAL.READING TIME			SEC.		<8	TCD-782
ACCESS TIME	FIRST TRACK		SEC.		<5	TCD-782
	LAST TRACK		SEC.		<14	
VERTICAL DEVIATION			mm		0.8	TCD-732R
HUM & NOISE		MIN.VOL	mv		<3	TCD-784 TNO.7 BASS BOOST OFF,TONE MAX.
		MAX.VOL	mv		<10	
SHOCK ABILITY TCD-782 TNO.1 & 23		CENTER	qm		>100	
		CORNERS	qm		>100	
FREQ.RESPONSE 1KHZ=0dB		63Hz	dB		-3	TCD-728(SPK O/P) BASS BOOST OFF
		127Hz	dB		+/-3	
		1KHz	dB		0	
		6.3KHz	dB			
		8KHz	dB			
		10KHz	dB	0	+/-3	
		20KHz	dB			

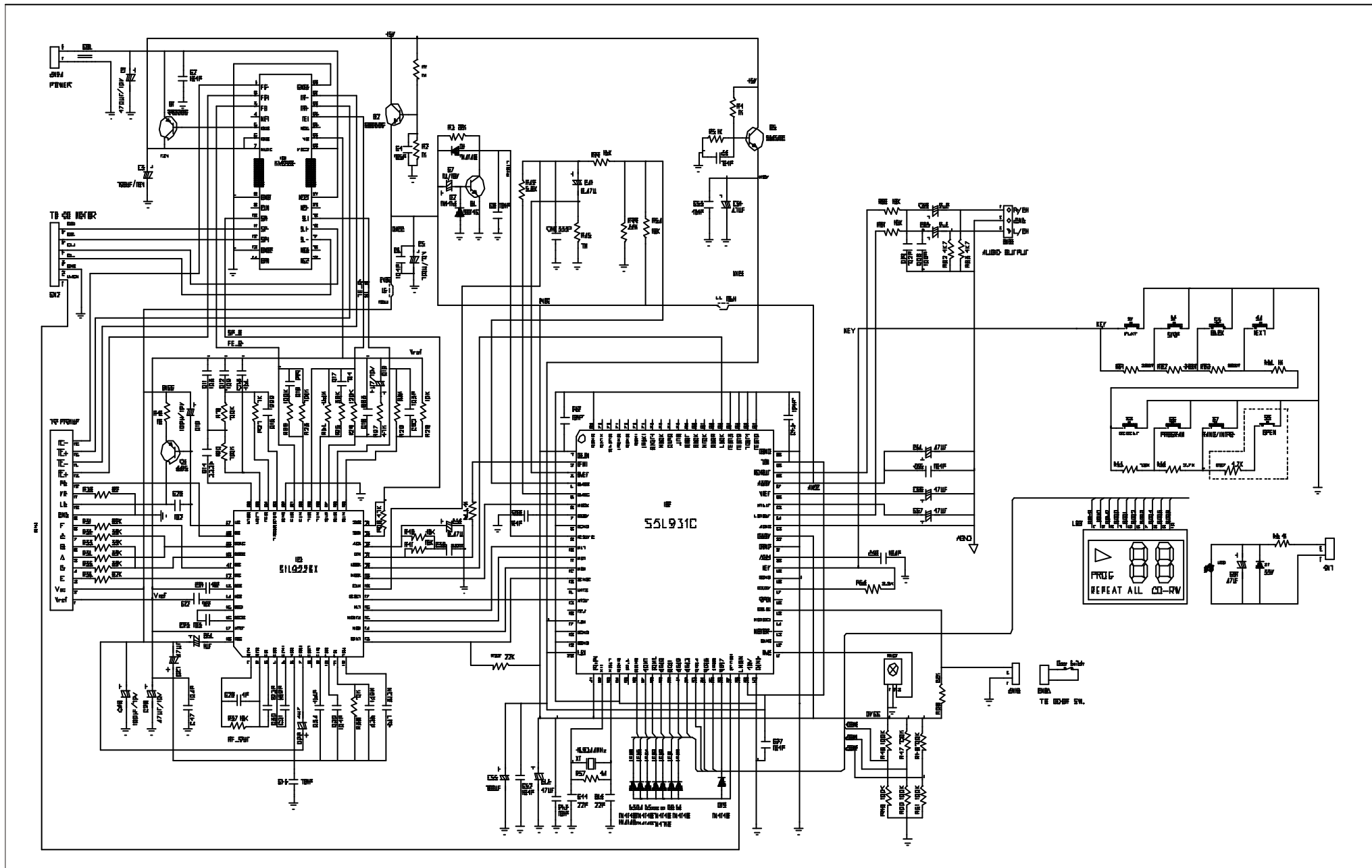
4 BLOCK DIAGRAM



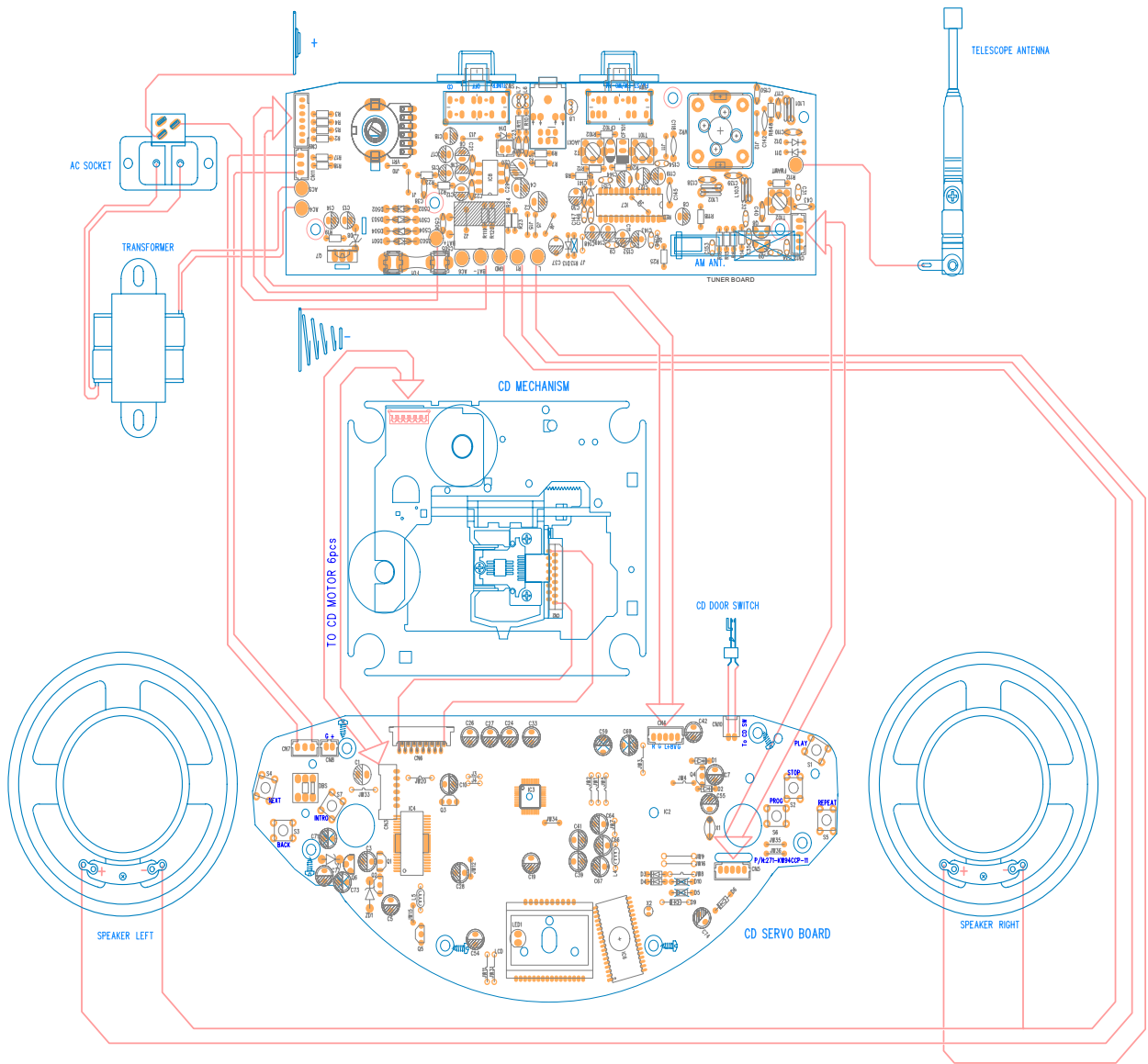
5 CIRCUIT DIAGRAM (1)



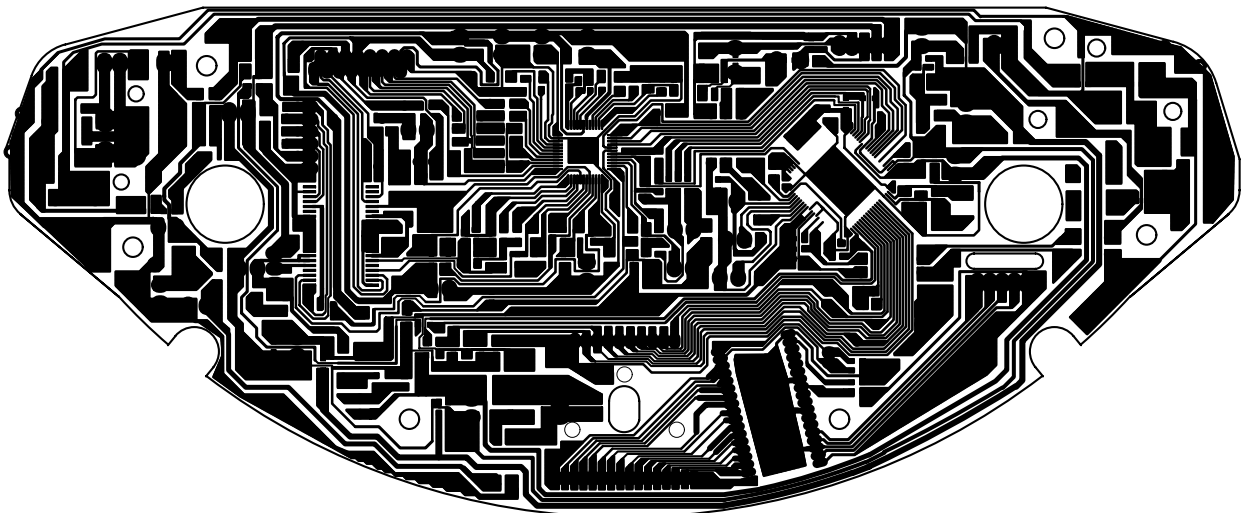
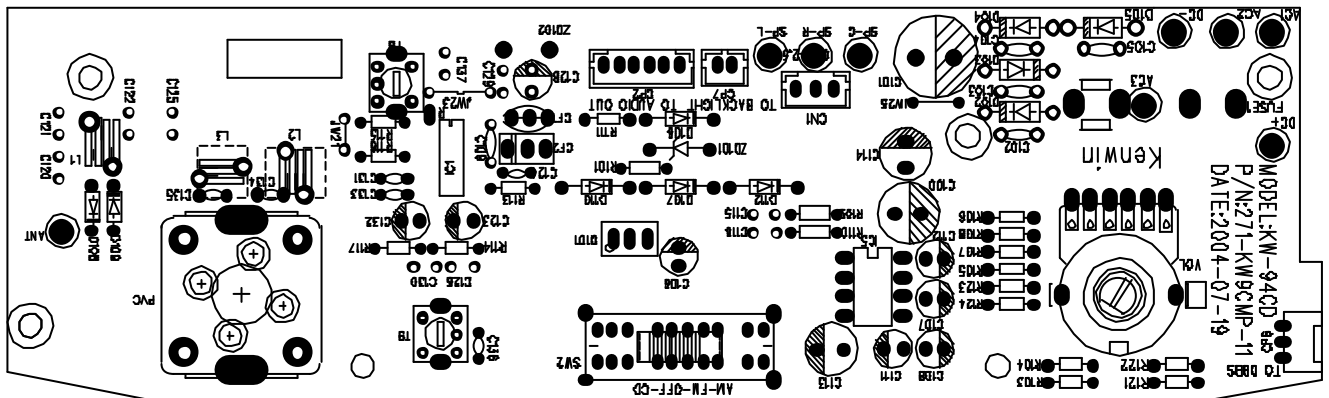
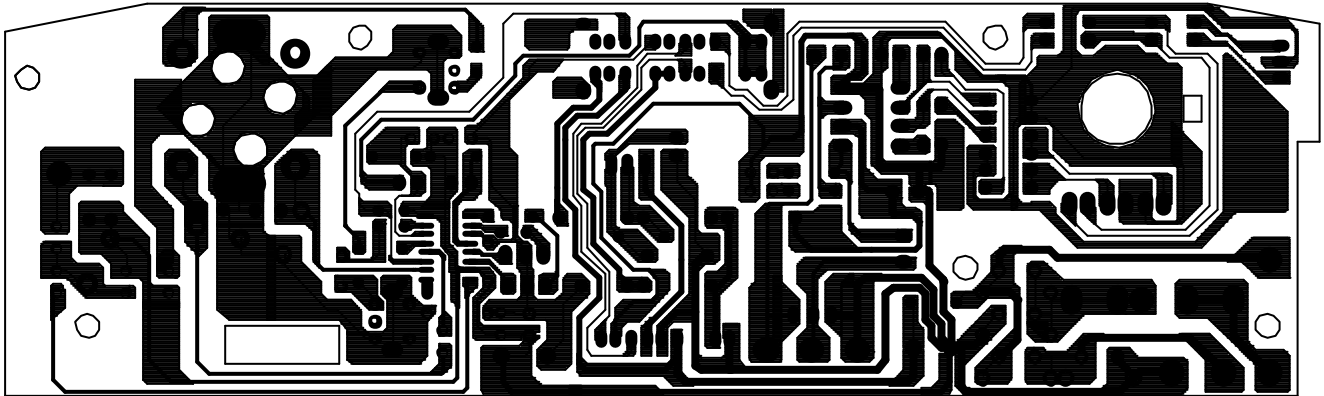
5 CIRCUIT DIAGRAM (2)



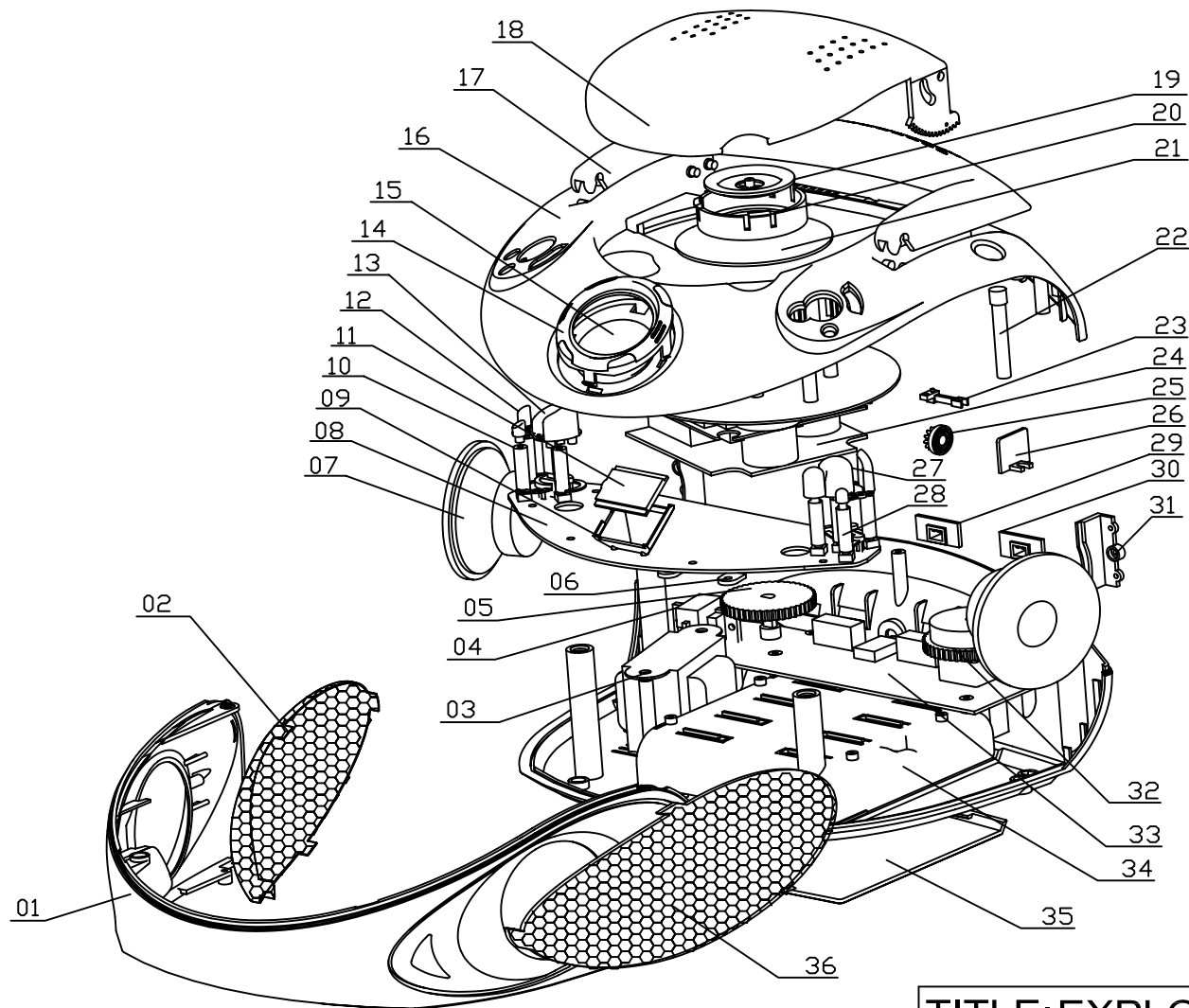
6 CONNECTION WIRE DIAGRAM



7 PCB LAYOUT



8 EXPLODE DIAGRAM



36	SPEATER-NET(R)	1
35	BATTERY-DOOR	1
34	BOTTOM-CASE	1
33	MAIN-PCB	1
32	TURNING-KMOB	1
31	SPEAKER-BRK	2
30	BAND-KMOB	1
29	FUNCTION-KMOB	1
28	CD-KMOB(02)-BRK	1
27	CD-KMOB(02)	1
26	GEAR-BRK	1
25	GEAR	1
24	CD-DECK	1
23	CD-DOOR-SW	1
22	ANTENNA	1
21	MAGNET-PLATE	1
20	MAGNET-BRK	1
19	MAGNET-DOVER	1
18	CD DOOR	1
17	HANDLE	1
16	TOP-CASE	1
15	DISPLAY LENS	1
14	DISPLAY RING	1
13	BBS-KMOB	1
12	CD-KMOB(01)	1
11	LCD	1
10	CD-KMOB(01)-BRK	1
09	LCD-BRK	1
08	KEY-PCB	1
07	SPEAKER	2
06	FIX-PLATE	2
05	VOLUME-KMOB	1
04	AC JACK	1
03	TRANSFORMER	1
02	SPEATER-NET(L)	1
01	MIDDLE-CASE	1
ITEM	PART NAME	QTY

TITLE:EXPLODE		TP-458G		PART NO.:	
		FILE NAME:		MATERIAL:	
X<60 60<X<150 150<X<350 350<X<1000 1000<X ±0.1 ±0.2 ±0.3 ±0.4 ±0.6 ±0.5	SCALE: 1:3		DRAWN: LHYANG	DATE: 10/06/2004	A4
			CHECKED:	DATE:	
			APPROVED:	DATE:	

9 PART LIST (1)

Item	Part NO	Description	Qty	
1	271-KW94CCP-11	KW-94 CD/KEY/DISPLAY REV.2.5 (L200mmxW83mmx C1.6mm)94HB	1	
2	100-KA9258D-20	S125B KA 9258 D	1	IC4
3	100-9226X01-20	SAM SUNG 9226X01	1	IC3
4	100-S5L9310-20	SAM SUNG S5L 931x01	1	IC2
5	294-15UH02B-00	15UH	2	L5 L4
6	111-IN41481-00	diode IN 4148	4	D3 D4 D9 D1
7	112-3V61210-00	zener diode 1 / 2W 3.6V	1	ZD1
8	112-5V61210-00	1/2W 5.6V	1	Z1
9	116-8050C01-00	transistor 8050 C	3	Q2 Q6 Q5
10	116-S8550C1-00	S8550	1	Q1
11	116-9014C01-00	9014C	1	Q4
12	116-9015C01-00	9015	1	Q3
13	311-PS22E06-00	switch DBBS switch	1	DB5
14	312-TS1150E-A0	tact.switch	7	S1-S7
15	232-1693442-00	crystal 16.93MHz	1	
16	245-KW88CTA-20	LCD Display KW-88 LCD 10 pin two*8" digital	1	
17	361-5000500-00	jump : Φ 0.5×20MM	20	
18	527-2902100-00	filter paper 29×21.1×0.2MM	1	
19		C/C ap (SMT0603) 25V (+/-5%)		
20	211-0004FDA-BS	4pf	1	C29
21	211-0022FDA-BS	22pf	2	C44 C49
22	211-0390FDA-BS	390pf	1	C16
23		C/C ap (SMT0603) 25V (+/-10%)		
24	211-0U001DB-BS	102 (0.001uF)	7	C21 C22 C25 C12 C36 C60 C68
25	211-00U01DB-BS	103(0.01uF)	3	C31 C23 C20
26		C/C ap (SMT0603) 25V (+80/-20%)		
27	211-U0022DD-BS	222(0.0022uF)	1	C15
28	211-U0033DD-BS	332(0.0033uF)	1	C38
29	211-U0068DD-BS	682(0.0068uF)	1	C30
30	211-U0033DD-BS	333(0.033uF)	1	C18
31	211-000U1DD-BS	104(0.1uF)	25	C2 C6 C8 C13 C14 C17 C32 C34 C35 C43 C45 C46 C47 C52 C53 C56 C57 C62 C63 C65 C11 C50 C40 C37 C70
32	211-0001UDD-BS	105(1UF)	1	C9
33		C/C ap : 50V (+80/-20%)		
34	211-000U1FD-1S	104(0.1uF)	2	C58 C61
35		E/Cap : (+/-10%)		
36	212-00U47FB-1S	0.47uF/50v	2	C39 C41
37	212-0001UFB-1S	1uF/50v	1	C7
38	212-00U47FB-1S	4.7uF/50v	1	C33
39	212-0010UDB-1S	10uF/25v	1	C19
40	212-0022UDB-1S	22uF/25v	2	C24 C27
41	212-0047UCB-1S	47uF/16v	6	C55 C67 C66 C64 C42 C72
42		E/Cap : (+/-20%)		
43	212-0100UCC-1S	100uF/16v	5	C3 C10 C5 C26 C54
44	212-0220UBC-1S	220uF/10v	1	C28
45	212-1000UBC-1S	1000uF/10v	1	C1
46		Resistor (SMT0603) 1/8W. <+/-5%>		
47	201-0000RDA-B1	0 OHM	20	JR1 JR18 J19 R22
48	201-0010RDA-B1	10 OHM	1	R18
49	201-0056RCA-B1	56 OHM	1	R30
50	201-0082RCA-B1	82 OHM	1	R8
51	201-0150RDA-B1	150 OHM	1	R1
52	201-0390RDA-B1	390 OHM	1	R82
53	201-0680RDA-B1	680 OHM	1	R85
54	201-0560RDA-B1	560 OHM	1	R81
55	201-0820RDA-B1	820 OHM	1	R7
56	201-0001KDA-B1	1K OHM	5	R5 R4 R21 R43 R84
57	201-002K2DA-B1	2.2K OHM	1	R83
58	201-003K3DA-B1	3.3K OHM	1	R59
59	201-004K7DA-B1	4.7K OHM	1	R86
60	201-005K6DA-B1	5.6K OHM	1	R42

9 PART LIST (2)

Item	Part NO	Description	Qty	
1	271-KW94CCP-11	KW-94 CD/KEY/DISPLAY REV.2.5 (L200mmxW83mmx C1.6mm)94HB	1	
2	100-KA9258D-20	S125B KA 9258 D	1	IC4
3	100-9226X01-20	SAM SUNG 9226X01	1	IC3
4	100-S5L9310-20	SAM SUNG S5L 931x01	1	IC2
5	294-15UH02B-00	15UH	2	L5 L4
6	111-JN41481-00	diode IN 4148	4	D3 D4 D9 D1
7	112-3V61210-00	zener diode 1 / 2W 3.6V	1	ZD1
8	112-5V61210-00	1/2W 5.6V	1	Z1
9	116-8050C01-00	transistor 8050 C	3	Q2 Q6 Q5
10	116-S8550C1-00	S8550	1	Q1
11	116-9014C01-00	9014C	1	Q4
12	116-9015C01-00	9015	1	Q3
13	311-PS22E06-00	switch DBBS switch	1	DB5
14	312-TS1150E-A0	tact.switch	7	S1-S7
15	232-1693442-00	crystal 16.93MHz	1	
16	245-KW88CTA-20	LCD Display KW-88 LCD 10 pin two*8" digital	1	
17	361-5000500-00	jump : Φ 0.5×20MM	20	
18	527-2902100-00	filter paper 29×21.1×0.2MM	1	
19		C/C ap (SMT0603) 25V(+/-5%)		
20	211-0004FDA-BS	4pf	1	C29
21	211-0022FDA-BS	22pf	2	C44 C49
22	211-0390FDA-BS	390pf	1	C16
23		C/C ap (SMT0603) 25V(+/-10%)		
24	211-U0001DB-BS	102 (0.001uF)	7	C21 C22 C25 C12 C36 C60 C68
25	211-U00U1DB-BS	103(0.01uF)	3	C31 C23 C20
26		C/C ap (SMT0603) 25V(+80/-20%)		
27	211-U0022DD-BS	222(0.0022uF)	1	C15
28	211-U0033DD-BS	332(0.0033uF)	1	C38
29	211-U0068DD-BS	682(0.0068uF)	1	C30
30	211-U0033DD-BS	333(0.033uF)	1	C18
31	211-000U1DD-BS	104(0.1uF)	25	C2 C6 C8 C13 C14 C17 C32 C34 C35 C43 C45 C46 C47 C52 C53 C56 C57 C62 C63 C65 C11 C50 C40 C37 C70
32	211-0001UDD-BS	105(1UF)	1	C9
33		C/C ap : 50V(+80/-20%)		
34	211-000U1FD-1S	104(0.1uF)	2	C58 C61
35		E/Cap :(+/-10%)		
36	212-00U47FB-1S	0.47uF/50v	2	C39 C41
37	212-0001UFB-1S	1uF/50v	1	C7
38	212-00U47FB-1S	4.7uF/50v	1	C33
39	212-0010UDB-1S	10uF/25v	1	C19
40	212-0022UDB-1S	22uF/25v	2	C24 C27
41	212-0047UCB-1S	47uF/16v	6	C55 C67 C66 C64 C42 C72
42		E/Cap :(+/-20%)		
43	212-0100UCC-1S	100uF/16v	5	C3 C10 C5 C26 C54
44	212-0220UBC-1S	220uF/10v	1	C28
45	212-1000UBC-1S	1000uF/10v	1	C1
46		Resistor (SMT0603) 1/8W, <+/-5%>		
47	201-0000RDA-B1	0 OHM	20	JR1 JR18 J19 R22
48	201-0010RDA-B1	10 OHM	1	R18
49	201-0056RCA-B1	56 OHM	1	R30
50	201-0082RCA-B1	82 OHM	1	R8
51	201-0150RDA-B1	150 OHM	1	R1
52	201-0390RDA-B1	390 OHM	1	R82
53	201-0680RDA-B1	680 OHM	1	R85
54	201-0560RDA-B1	560 OHM	1	R81
55	201-0820RDA-B1	820 OHM	1	R7
56	201-0001KDA-B1	1K OHM	5	R5 R4 R21 R43 R84
57	201-002K2DA-B1	2.2K OHM	1	R83
58	201-003K3DA-B1	3.3K OHM	1	R59
59	201-004K7DA-B1	4.7K OHM	1	R86
60	201-005K6DA-B1	5.6K OHM	1	R42

9 PART LIST (3)

Item	Part NO	Description	Qty	
1	271-KW94CCP-11	KW-94 CD/KEY/DISPLAY REV.2.5 (L200mmxW83mmx C1.6mm)94HB	1	
2	100-KA9258D-20	S125B KA 9258 D	1	IC4
3	100-9226X01-20	SAM SUNG 9226X01	1	IC3
4	100-S5L9310-20	SAM SUNG S5L 931x01	1	IC2
5	294-15UH02B-00	15UH	2	L5 L4
6	111-IN41481-00	diode IN 4148	4	D3 D4 D9 D1
7	112-3V61210-00	zener diode 1 / 2W 3.6V	1	ZD1
8	112-5V61210-00	1/2W 5.6V	1	Z1
9	116-8050C01-00	transistor 8050 C	3	Q2 Q6 Q5
10	116-S8550C1-00	S8550	1	Q1
11	116-9014C01-00	9014C	1	Q4
12	116-9015C01-00	9015	1	Q3
13	311-PS22E06-00	switch DBBS switch	1	DB5
14	312-TS1150E-A0	tact switch	7	S1-S7
15	232-1693442-00	crystal 16.93MHz	1	
16	245-KW88CTA-20	LCD Display KW-88 LCD 10 pin two *8" digital	1	
17	361-5000500-00	jump : Φ 0.5x20MM	20	
18	527-2902100-00	filter paper 29x21.1x0.2MM	1	
19		C/C ap (SMT0603) 25V (+/-5%)		
20	211-0004PDA-BS	4pf	1	C29
21	211-0022PDA-BS	22pf	2	C44 C49
22	211-0390PDA-BS	390pf	1	C16
23		C/C ap (SMT0603) 25V (+/-10%)		
24	211-0U001DB-BS	102 (0.001uf)	7	C21 C22 C25 C12 C36 C60 C68
25	211-0U001DB-BS	103(0.01uf)	3	C31 C23 C20
26		C/C ap(SMT0603) 25V (+80/-20%)		
27	211-U0022DD-BS	222(0.0022uf)	1	C15
28	211-U0033DD-BS	332(0.0033uf)	1	C38
29	211-U0068DD-BS	682(0.0068uf)	1	C30
30	211-0U033DD-BS	333(0.033uf)	1	C18
31	211-000U1DD-BS	104(0.1uf)	25	C2 C6 C8 C13 C14 C17 C32 C34 C35 C43 C45 C46 C47 C52 C53 C56 C57 C62 C63 C65 C11 C50 C40 C37 C70
32	211-0001UDD-BS	105(1UF)	1	C9
33		C/C ap .50V(+80/-20%)		
34	211-000U1FD-1S	104(0.1uf)	2	C58 C61
35		E/Cap :(+/-10%)		
36	212-00U47FB-1S	0.47uf/50v	2	C39 C41
37	212-0001UFB-1S	1uf/50v	1	C7
38	212-004U7FB-1S	4.7uf/50v	1	C33
39	212-0010UDB-1S	10uf/25v	1	C19
40	212-0022UDB-1S	22uf/25v	2	C24 C27
41	212-0047UCB-1S	47uf/16v	6	C55 C67 C66 C64 C42 C72
42		E/Cap :(+/-20%)		
43	212-0100UCC-1S	100uf/16v	5	C3 C10 C5 C26 C54
44	212-0220UBC-1S	220uf/10v	1	C28
45	212-1000UBC-1S	1000uf/10v	1	C1
46		Resistor (SMT0603)1/8W. <+/-5%>		
47	201-0000RDA-B1	0 OHM	20	JR1 JR18 J19 R22
48	201-0010RDA-B1	10 OHM	1	R18
49	201-0056RCA-B1	56 OHM	1	R30
50	201-0082RCA-B1	82 OHM	1	R8
51	201-0150RDA-B1	150 OHM	1	R1
52	201-0390RDA-B1	390 OHM	1	R82
53	201-0680RDA-B1	680 OHM	1	R85
54	201-0560RDA-B1	560 OHM	1	R81
55	201-0820RDA-B1	820 OHM	1	R7
56	201-0001KDA-B1	1K OHM	5	R5 R4 R21 R43 R84
57	201-002K2DA-B1	2.2K OHM	1	R83
58	201-003K3DA-B1	3.3K OHM	1	R59
59	201-004K7DA-B1	4.7K OHM	1	R86
60	201-005K6DA-B1	5.6K OHM	1	R42

9 PART LIST (4)

Item	Part NO	Description	Qty	
207	681-KW98CD0-00	CD protection card	1	
208	631-4403603-00	polybag	1	
209	782-0000001-05	laser label	1	
210	671-0000001-05	caution label	1	
211	672-0000001-05	class I label	1	
212	796-KW15420-00	serial number label		
213	800-KW94C14-10	KW-94 middle cabinet	1	HIPS
214	802-KW94C14-10	KW-94 top cabinet	1	HIPS
215	801-KW94C14-10	KW-94 bottom cabinet	1	HIPS
216	878-KW94C05-10	KW-94 CD door	1	HIPS
217	860-KW94C14-10	KW-94 handle	1	HIPS
218	804-KW94C14-10	KW-94 battery door	1	HIPS
219	822-KW94C09-40	KW-94 display lens	1	SAN
220	833-KW94C05-20	KW-94 tuning knob	1	ABS
221	826-KW94C05-2A	KW-94 CD keys A	1	
222	826-KW94C05-2B	KW-94 CD keys B	1	
223	829-KW94C05-2A	KW-94AD function knob	0	
224	827-KW94C05-20	KW-94AD band knob	0	
225	876-KW94C05-20	KW-94 DBBS knob	1	
226	812-KW94C05-20	KW-94 CD door gear	1	
227	813-KW94C05-20	KW-94 CD door gear holder	1	
228	895-KW94C05-2A	KW-94 CD key bracket A	1	
229	895-KW94C05-2B	KW-94 CD key bracket B	1	
230	906-KW94C05-20	KW-94 DBBS knob bracket	1	
231	892-KW94C05-20	KW-94 display lens ring	1	
232	818-KW94C05-20	KW-94 LCD bracket	0	
233	908-KW94C05-20	KW-94 AC push plate	2	
234	818-KW94C01-2A	KW-94 LCD bracket A	1	ABS
235	818-KW94C01-2B	KW-94 LCD bracket B	0	
236	829-KW94C01-2B	KW-94 function knob B	1	
237	853-KW94C01-2A	KW-94 speaker clip A	1	
238	853-KW94C01-2B	KW-94 speaker clip B	1	
239	867-KW98C02-20	SAMSUNG pick up cover	1	ABS
240	890-KW89C05-20	KW-89 remote control bottom	0	
241	891-KW89C05-20	KW-89 remote control panel	0	
242	889-KW89C05-20	KW-89 remote control battery door	0	
243	863-00V1002-20	V-10 magnet plate	1	ABS
244	864-00V1002-20	V-10 magnet holder	1	
245	866-00V1002-20	V-10 magnet cover	1	
246	869-CD10102-20	ACD-101 AC socket cover	0	ABS

Trouble Shooting Guide

-Audio Part
TP-458G Series

