

SERVICE GUIDE

KYE SYSTEMS CORP.



SW 5.1 HOME THEATER

Version: 1.0
Total 20 Pages (Cover page included)

Revision History

Table of Contents

<i>Revision History</i>	1
<i>Table of Contents</i>	2
<i>Getting Started</i>	3
Conventions Used in this Guide.....	3
Safety Precautions.....	3
<i>Chapter 1. How to Handle Defective Returns</i>	4
1.1 Overview.....	4
1.2 Problems.....	5
1.2.1 No Sound and Power LED (indicator) Unlight.....	6
1.2.2 System can not Turn on when in Stand by Mode.....	7
1.2.3 Power LED (indicator) Unlight.....	7
1.2.4 Press SW1-SW4, their Relative LEDs (indicator) unlight.....	8
1.2.5 Each Channel No Sound.....	8
1.2.6 One or More Channels No Sound.....	9
1.2.7 Remote Control does not Work.....	9
1.2.8 Mater Volume Knob does not Rotate when Press the Volume Up or Down Button on the Remote Control.....	10
<i>Chapter 2. Specifications</i>	11
<i>Chapter 3. Block Diagram</i>	12
<i>Chapter 4. Exploded View</i>	13
<i>Chapter 5. Part List</i>	14
<i>Chapter 6. Schematic Diagram</i>	16
<i>Chapter 7. Important Notes</i>	19
7.1 Packing Requirement for Sending the PCB Assembly by Post.....	19
7.2 Short of Spare Parts while Repairing a Speaker System.....	19

Getting Started

Conventions Used in this Guide



Attention

Pay Special Attention: Instructions that are important to remember and may prevent mistakes.



Caution: Information that, if not followed, may result in damage to the product.

Safety Precautions

The following precautions should be observed in handling the speaker described in this guide:

Place the speakers on a flat, level and stable surface.

Do not place the speakers in environments subject to mist, smoke, vibration, excessive dust, salty or greasy air, or other corrosive gases and fumes.

Do not drop or jolt the speakers.

Do not allow anything to drop into the subwoofer case through its ventilator, as it could result in fatal electric shock or fire.

Place the unit far enough from other equipments for good heat dissipation.

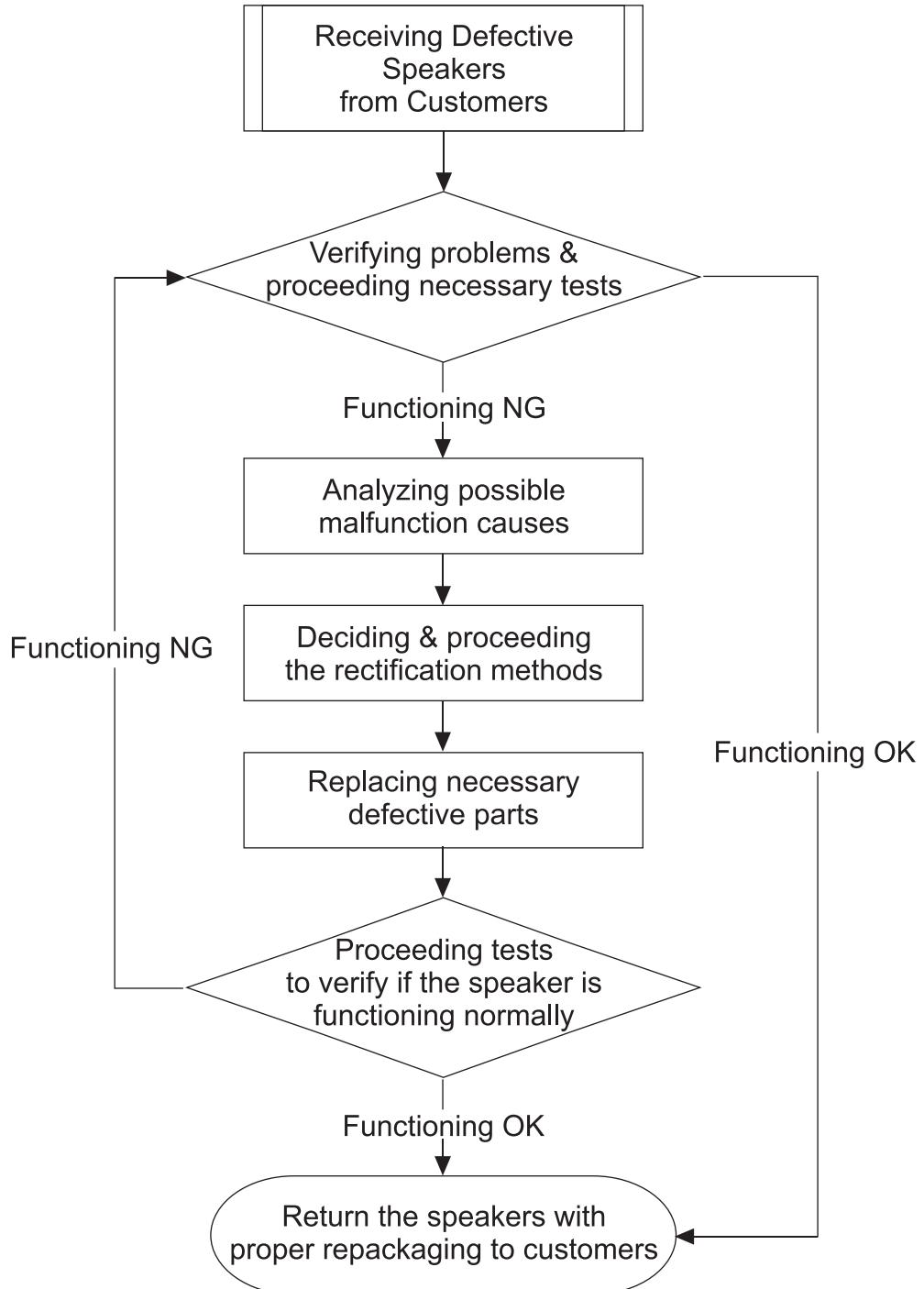
Disconnect the AC power cord from the AC outlet before performing any maintenance on the speakers.

Do not perform any maintenance with wet hand.

Prevent foreign substances, such as water, other liquids or chemicals, from entering the speakers while performing maintenance procedures on the speakers.

Chapter 1. How to Handle Defective Returns

1.1 Overview



1.2 Problems

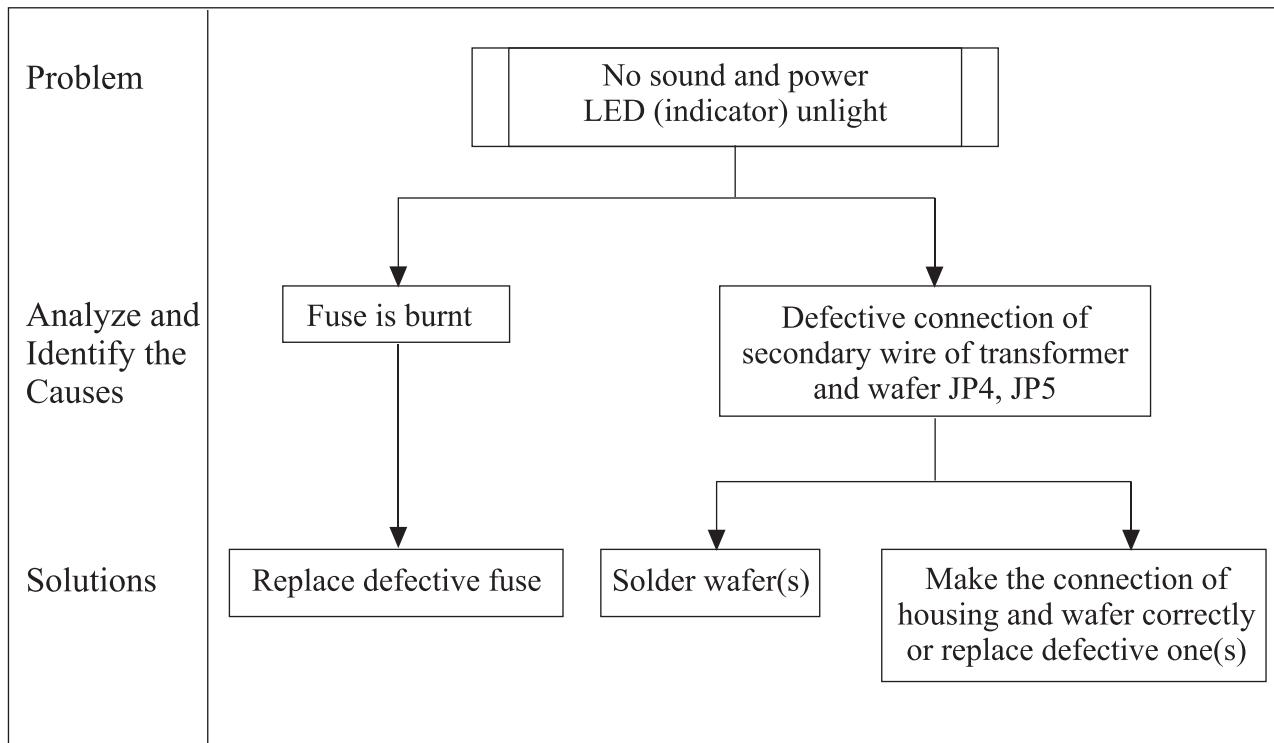
Item	Problem Descriptions
1.2.1	<u>No sound and power LED (indicator) unlight</u>
1.2.2	<u>System can not turn on when in stand by mode</u>
1.2.3	<u>Power LED (indicator) unlight</u>
1.2.4	<u>Press SW1-SW4, their relative LEDs (indicator) unlight</u>
1.2.5	<u>Each channel no sound</u>
1.2.6	<u>One or more channels no sound</u>
1.2.7	<u>Remote control does not work</u>
1.2.8	<u>Master volume knob does not rotate when press the volume up or down button on the remote control</u>



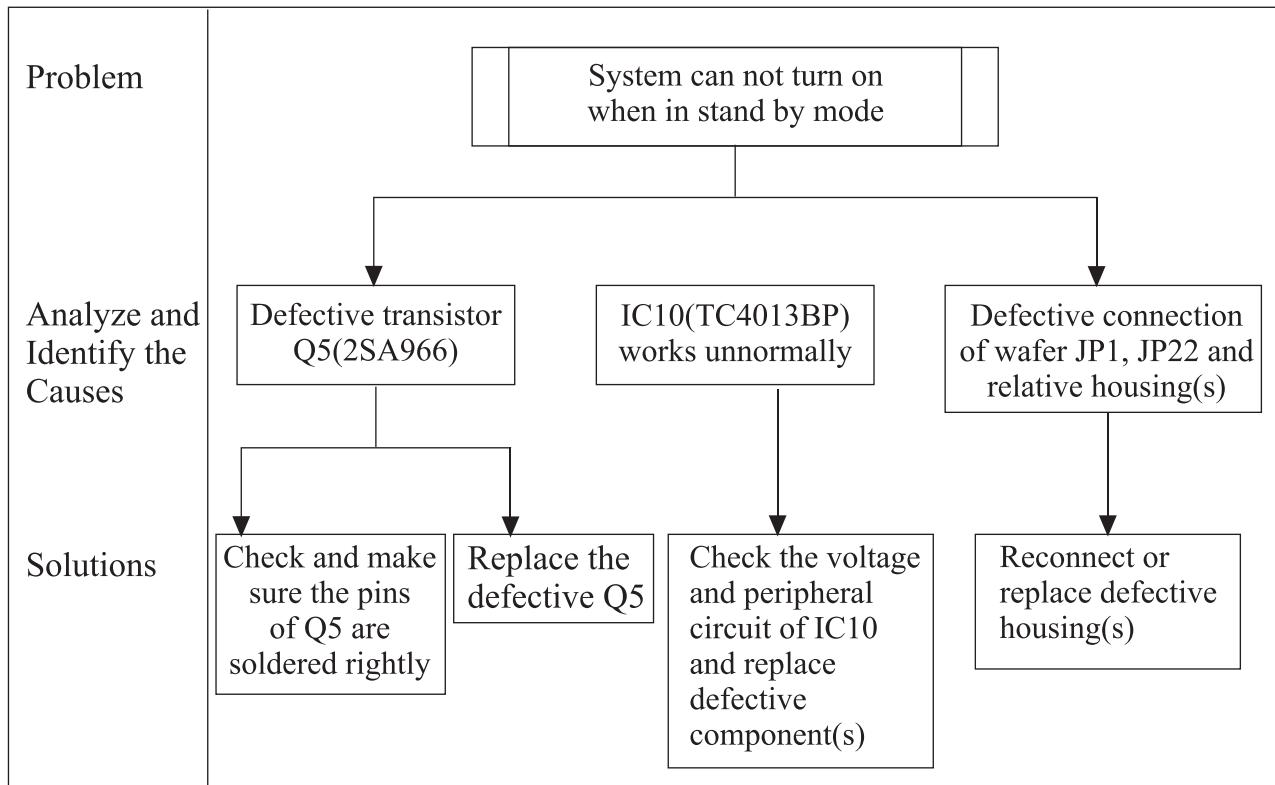
Attention

Please follow the numbered sequence marked withing parenthesis given in individual flow chart, in that this is the best-recommended sequence to rectify the problems.

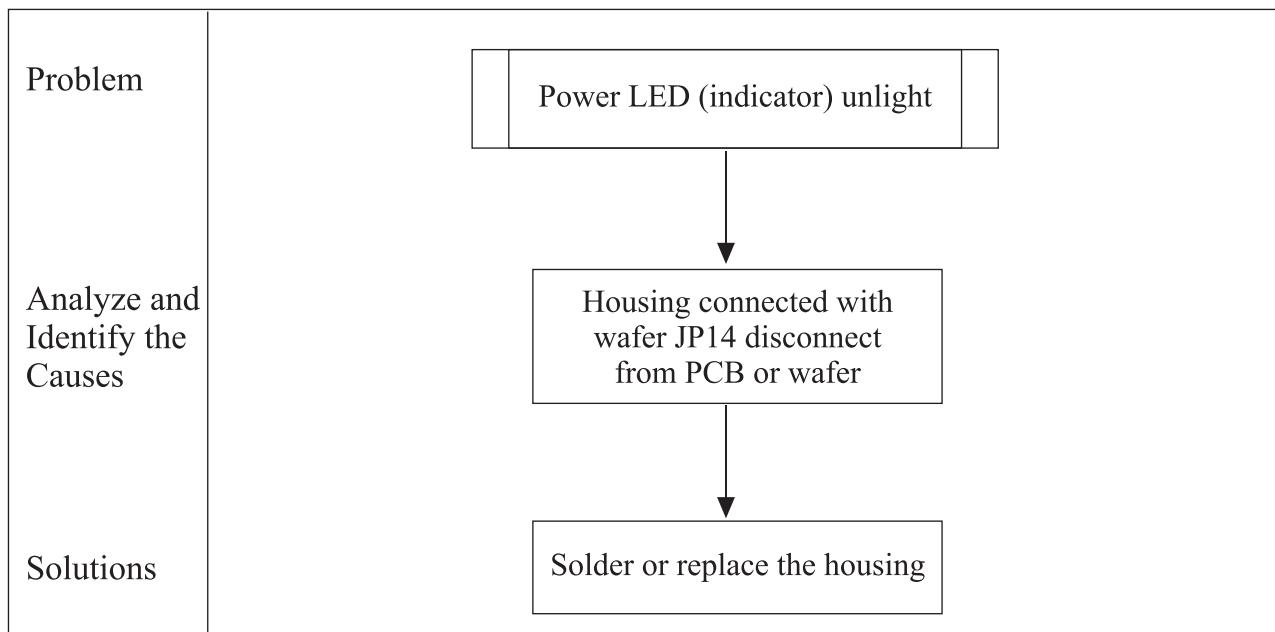
1.2.1 No sound and power LED (indicator) unlight



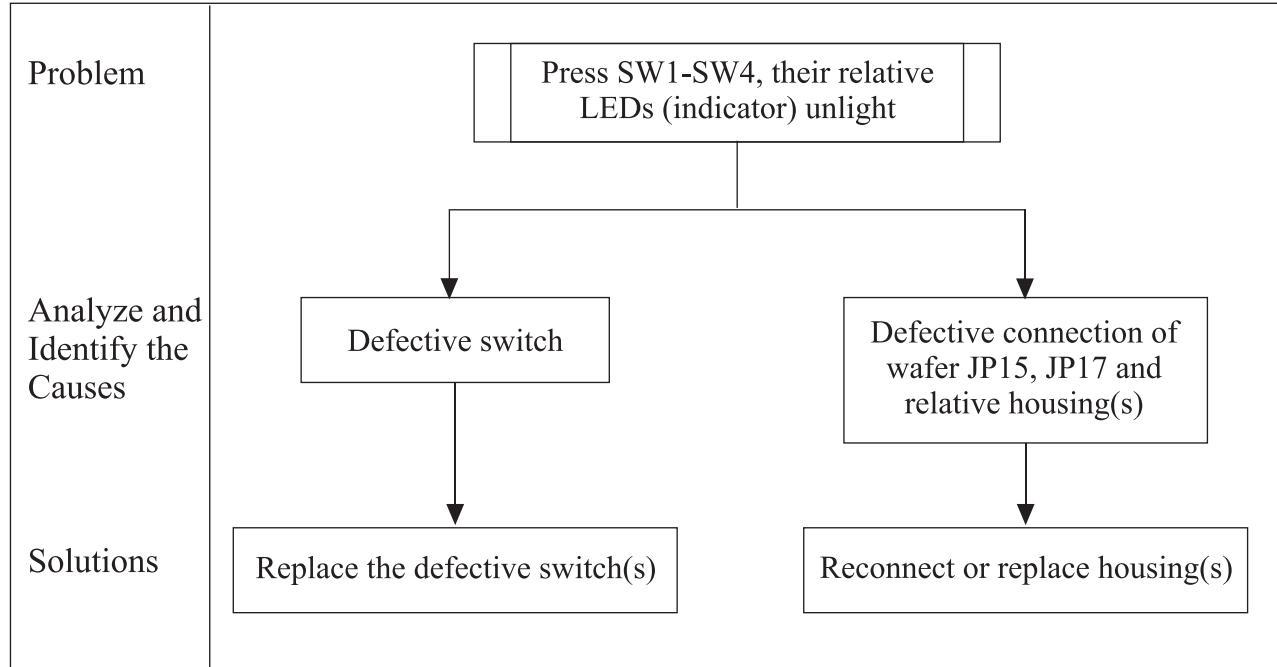
1.2.2 System can not turn on when in stand by mode



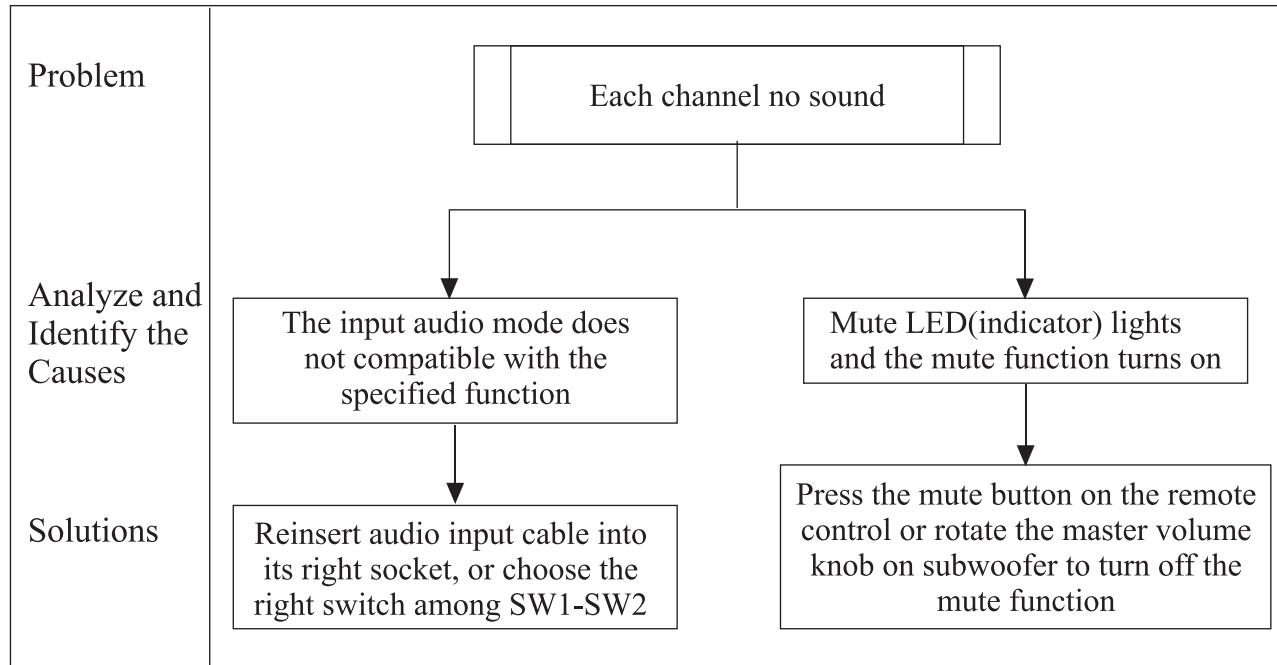
1.2.3 Power LED (indicator) unlight



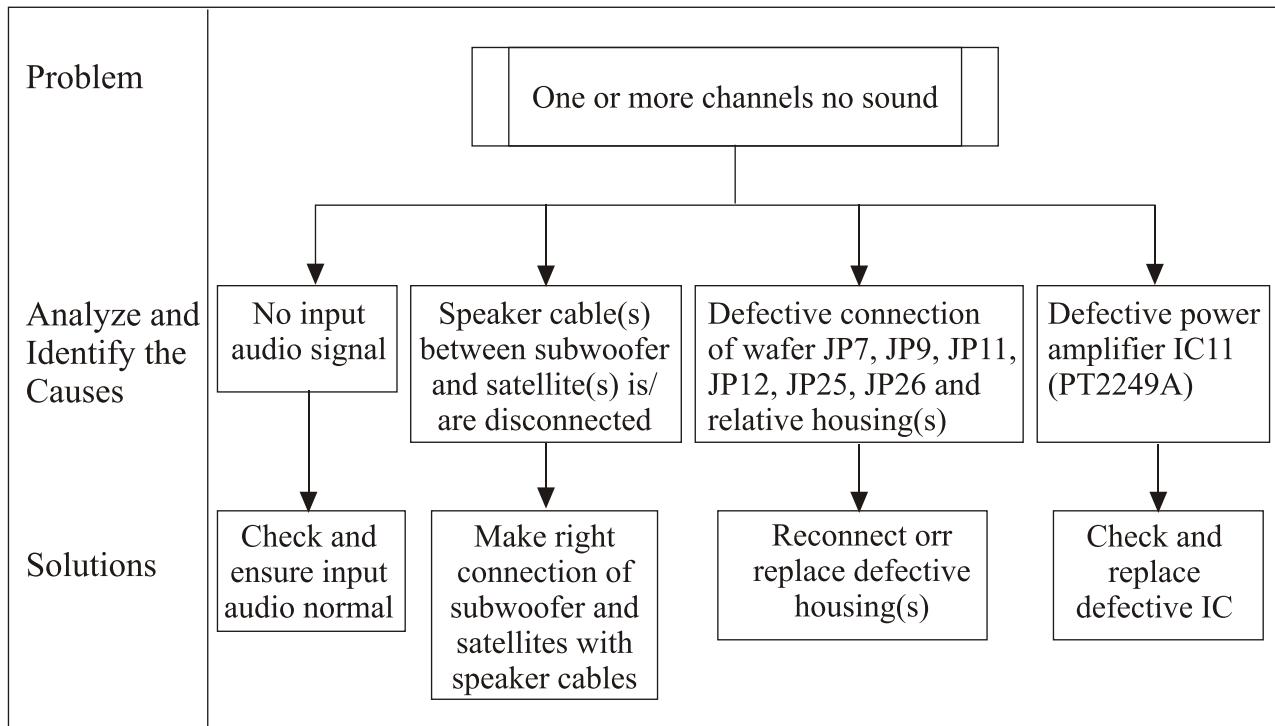
1.2.4 Press SW1-SW4, their relative LEDs (indicator) unlight



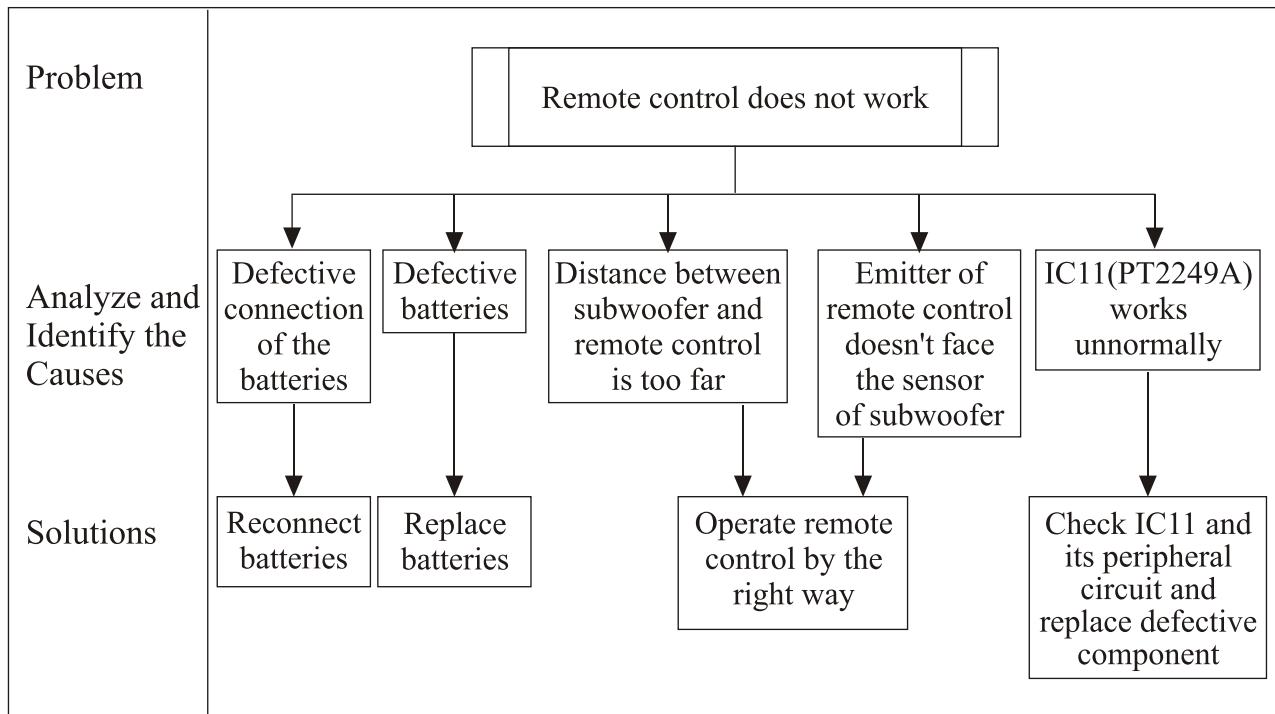
1.2.5 Each channel no sound



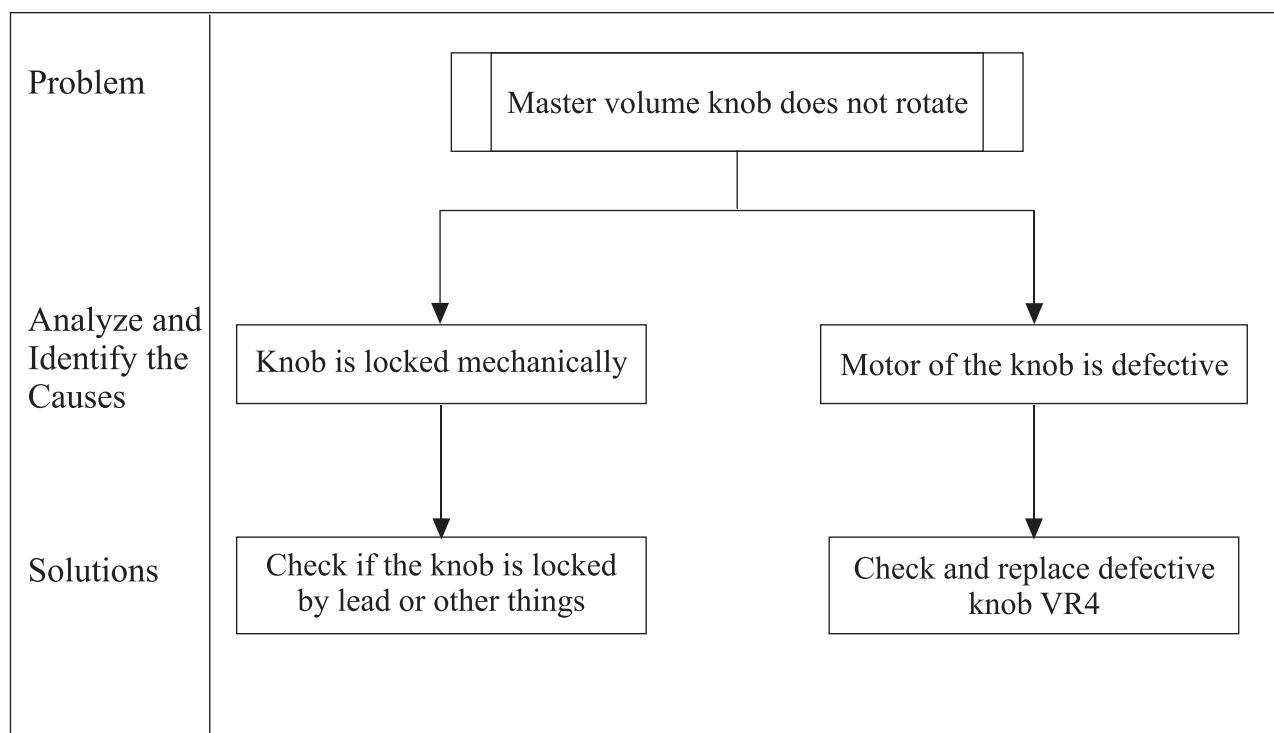
1.2.6 One or more channels no sound



1.2.7 Remote control does not work



1.2.8 Master volume knob does not rotate when press the volume up or down button on the remote control



Chapter 2. Specifications

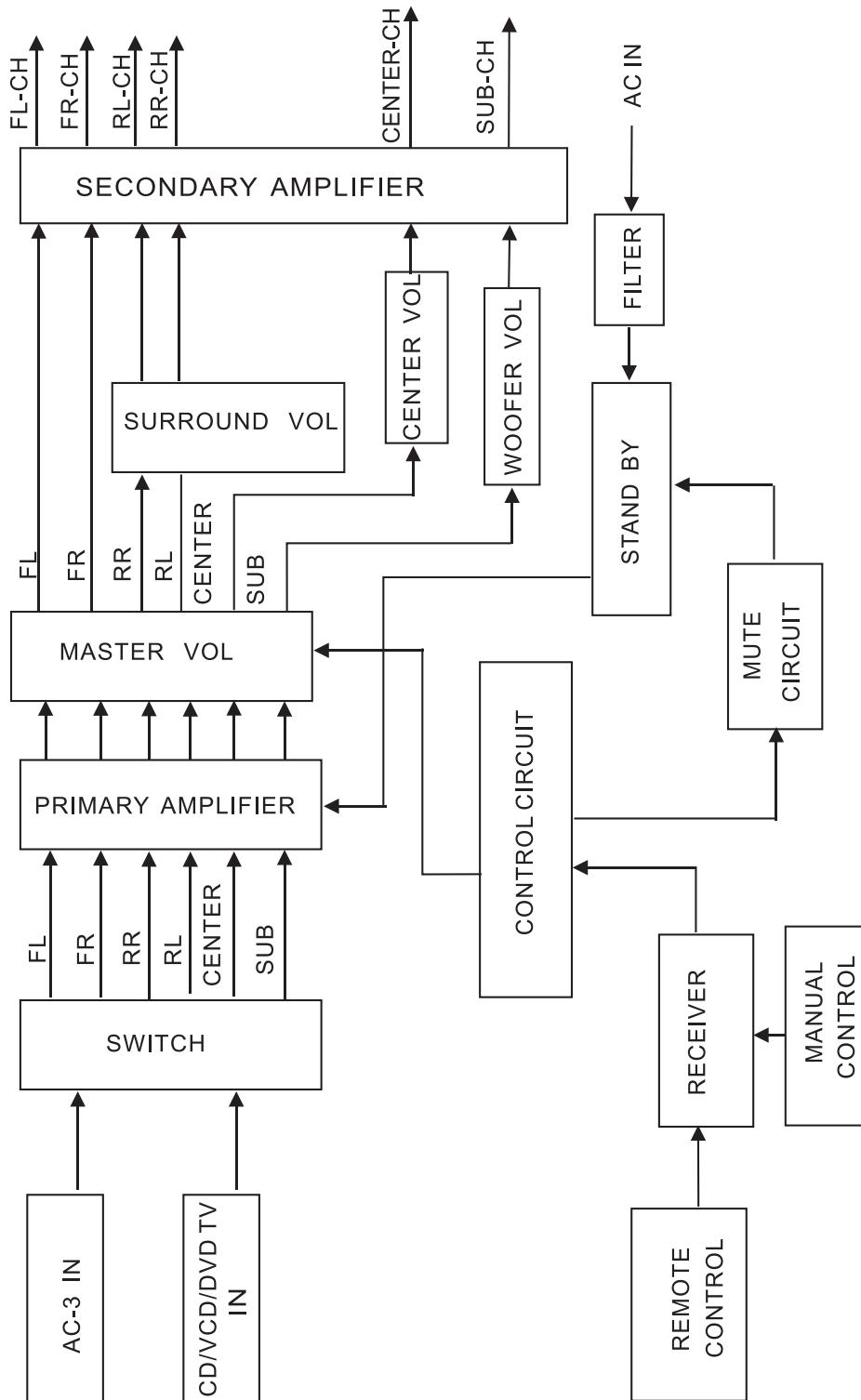
NO.	DESCRIPTION	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY AT 10%			
	SUBWOOFER	mV	60+/-50	
	CENTER	mV	300+/-100	
	FRONT	mV	300+/-100	
	REAR	mV	300+/-100	
2	DISTORTION AT 1 KHz	%	0.5	
	AT 100 Hz	%	0.5	
3	OUTPUT POWER AT 10% DISTORTION			
	SUBWOOFER	W	45	
	CENTER	W	15	
	FRONT	W	15	
	REAR	W	15	
4	S/N RATIO			
	SUBWOOFER	dB	40	
	CENTER	dB	50	
	FRONT	dB	50	
	REAR	dB	50	
5	CHANNEL SEPARATION	dB		
6	FREQUENCY RESPONSE (DOWN 3dB)			
	SUBWOOFER	Hz	30~150	
	CENTER	Hz	20~55K	
	FRONT	Hz	20~55K	
	REAR	Hz	20~55K	
7	HUM LEVEL (AT VOL. MIN.)			
	SUBWOOFER	mV	8	
	CENTER	mV	2	
	FRONT	mV	2	
	REAR	mV	2	
	HUM LEVEL (AT VOL. MAX.)			
	SUBWOOFER	mV	30	
	CENTER	mV	3	
	FRONT	mV	3	
	REAR	mV	3	
8	OPERATING VOLTAGE	MAX.255 VAC MIN.205 VAC		

TEST CONDITION:

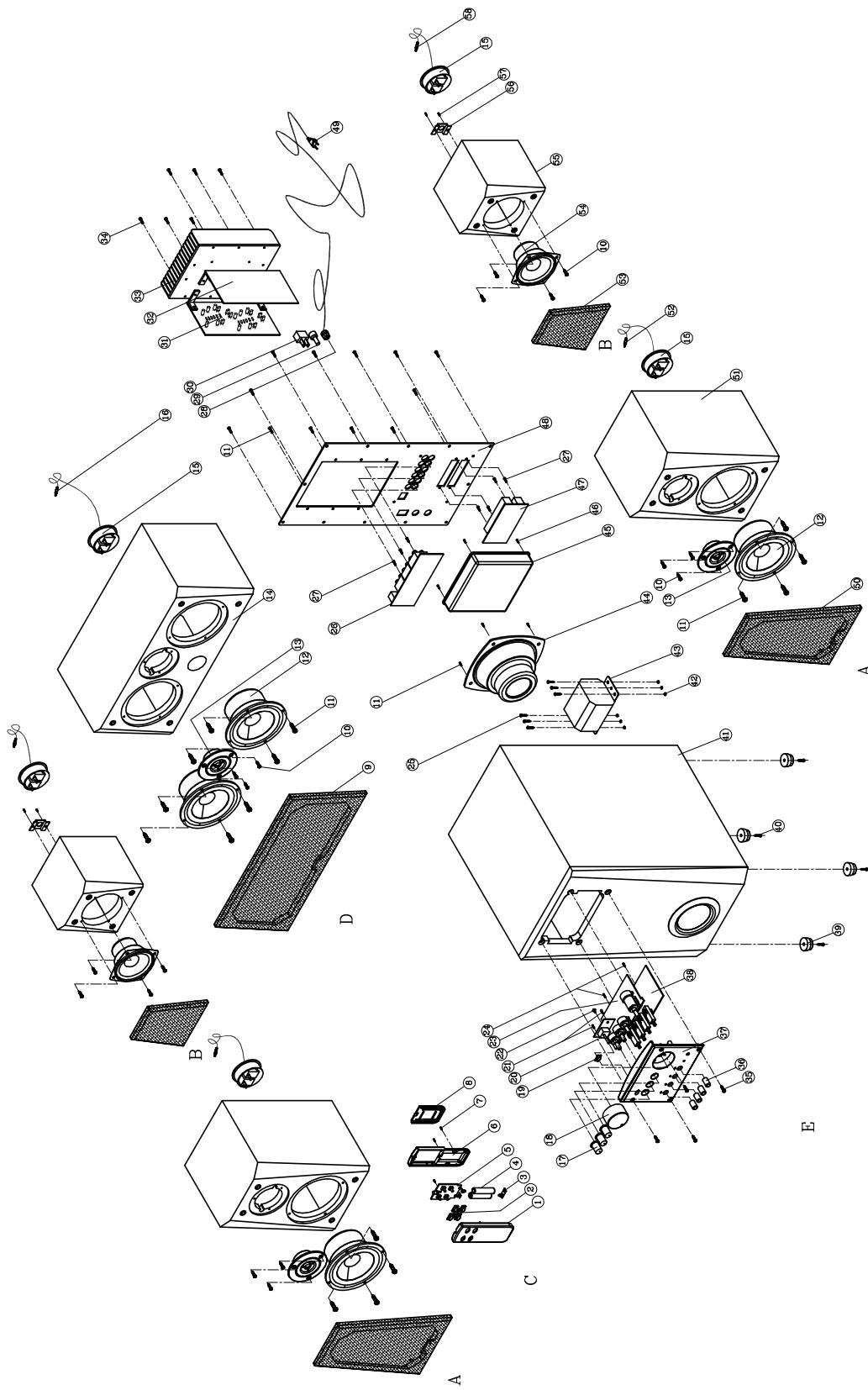
- 1) LOAD: CENTER 4 Ω, SUBWOOFER / FRONT / REAR 8 Ω
- 2) RATED POWER: 500 mV(SATELLITE)
5.0 mV(SUBWOOFER)

VOLUME AT MAX.

Chapter 3. Block Diagram



Chapter 4. Exploded View

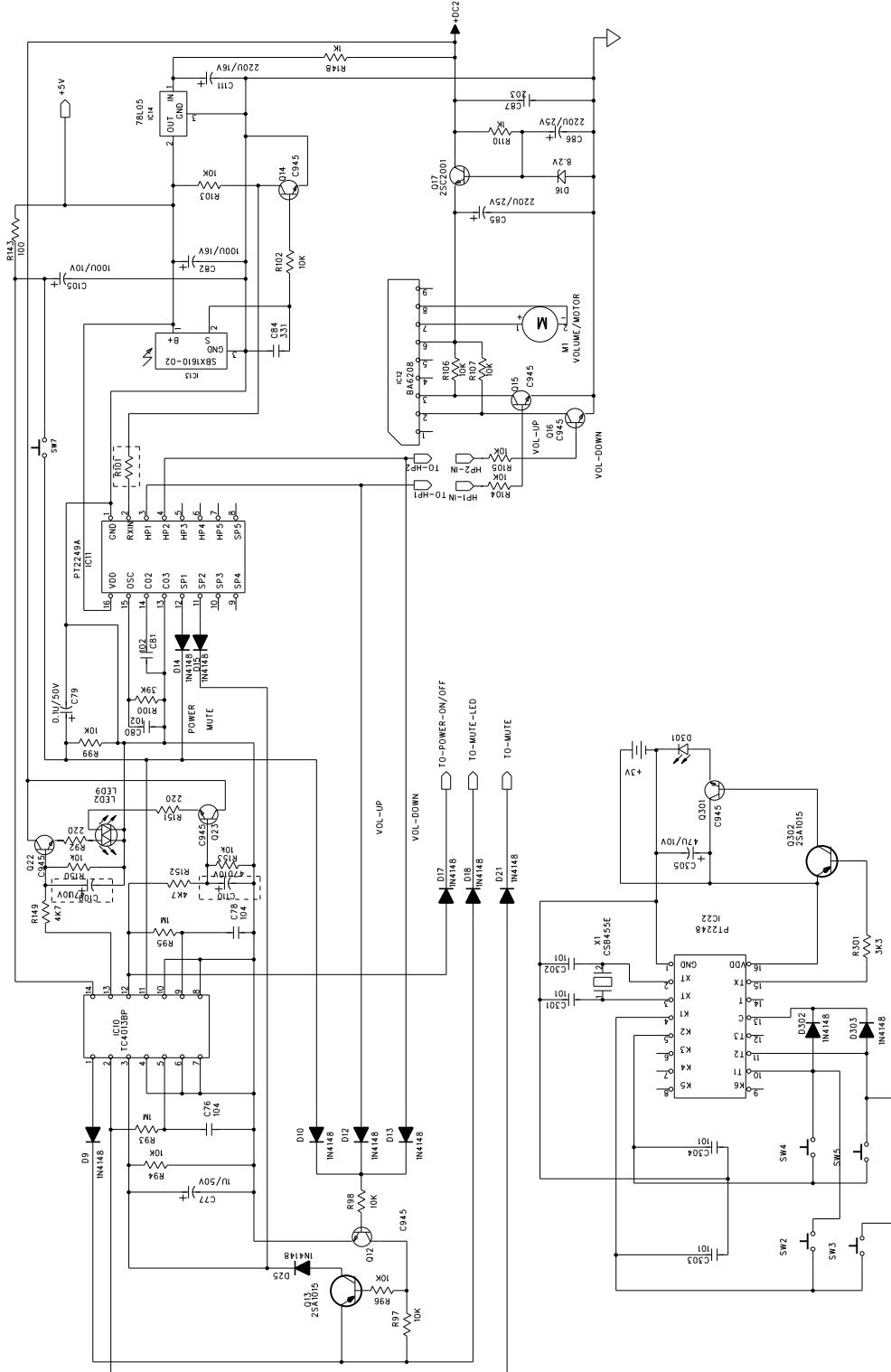


Chapter 5. Part List

Ref. No.	Description	Mfr's Part No.
1	Front Panel, DHT-510, For Remote Control, Black, Genius logo	T13654
2	Button, Silver B, 4-Key	T13344
3	Spring Coil, DHT-510, SP(+)(-), 6Φ	T73051
4	Battery, AAA Type	T73092
5	Remote Control PCB Assembly, 94HB, 36x49mm, Ver2.0	50091
6	Rear Cover, For Remote Control	T13561
7	Screw, PA2.3x8mm, White	71007
8	Plastic Plate, For Battery Compartment, Black	T13346
9	Fabric Front, For Center, Black(Jy-3A-05)	T13401
10	Screw, TA3.0x10mm, Black	71026
11	Screw, BA3.5x16mm, Black	71045
12	Speaker, 4", 8Ω, 12-25W, Magnetically Shielded	T20210
13	Speaker, 0.5", 8Ω, 12-25W, Magnetically Shielded	T20222
14	Wooden Case, For Center, Surface Pattern: F-153-1	TC0044
15	Spring Tag, YLT-02A05-02B, Red-Black	T56434
16	Speaker Cable, 2m, Plug to Plug, AWG22#, Black	T42129
17	Knob, 12Φx16Φx18mm, Silver B	T80149
18	Knob, Silver B	T80193
19	Button, Silver B	T13384
20	Mute Control PCB Assembly, DHT-510/9, 94V0, 28x12mm, Ver1.0	T50883
21	Screw, BTB3.0x8mm, Black	T71013
22	Screw, PWA3.0x8mm	T71027
23	Control PCB Assembly, DHT-510/4, 94V0, 110x97mm, Ver1.0	50107
24	Screw, BH3.0x10mm, Black	71042
25	Screw, TM3.0x18mm, Black	T71151
26	Audio Input PCB Assembly, DHT-510/1, 94V0, 117.5x44.58mm, Ver1.0	T50821
27	Screw, PA3.0x12mm, Black	71021
28	Strain Relief Bushing, SB4F-2K, Black	80002
29	Fuse Holder, R3-11, Black	T57014
30	SwitchRA12KKAW0F, Black	T56417
31	Power Amplifier & Power Supply PCB Assembly, DHT-510/5, 94V0, 161.2x90mm, Ver4.0	50332
32	Power Amplifier & Power Supply PCB Assembly, DHT-510/6, 94V0, 161.2x90mm, Ver2.0	50152
33	Heat Sink, DHT-510, 173x130x38	T72220
34	Screw, BH3.0x10mm, Black	71042
35	Screw, KA3.0x20mm, Black	T71152
36	Button, 8Φx9Φx15mm, Silver B	T11810
37	Front Panel, DHT-510, Black, Genius logo	T14149
38	Control PCB Assembly, DHT-510/3, 94V0, 111x109mm, Ver1.0	50106
39	Rubber Foot Washer, Φ23x13, Black	T86184
40	ScrewTA3.5x14mm, Black	T71034
41	Wooden Case, For Subwoofer, 220x380x300, F-153-1	TC0062
42	Nut Washer, 3Φ	71050
43	Transformer, 230V, 28VCT/2.4A&12V/1A&40VCT/1.2A, CTP-10311U-2	T31527
44	Speaker, Sub, 6.5", 8Ω, 100W, Magnetically Shielded	T20231
45	Airproof Cover, DHT-510, 127x127x34, Black	T13468

Ref. No.	Description	Mfr's Part No.
46	Screw, PTB3.0x16mm, Black	T71024
47	Audio Output PCB Assembly, DHT-510/2, 94V0, 102.7x50.9mm, Ver1.0	T50822
48	Iron Plate, For Subwoofer, 201x361x2	T72214
49	AC Power Cord, 6', Black, VDE, H05VVH2-F	T40170
50	Fabric Front, For Front, Black JY-3A-05	T13400
51	Wooden Case, For Front, Surface Pattern: F-153-1	TC043
52	Speaker Cable, 3m, Plug to Plug, AWG22#, Black	T42130
53	Fabric Front, For Cover, Black JY-3A-05	T13402
54	Speaker, 3", 8, 12-25W, w/o Magnetically Shielded	T20209
55	Wooden Case, For Rear, Surface Pattern: F-153-1	TC0045
56	Hanger, Thickness=1mm, Black	T73053
57	Screw, PA3.0x12mm, Black	71021
58	Speaker Cable, 8m, Plug to Plug, AWG22#, Black	T42131

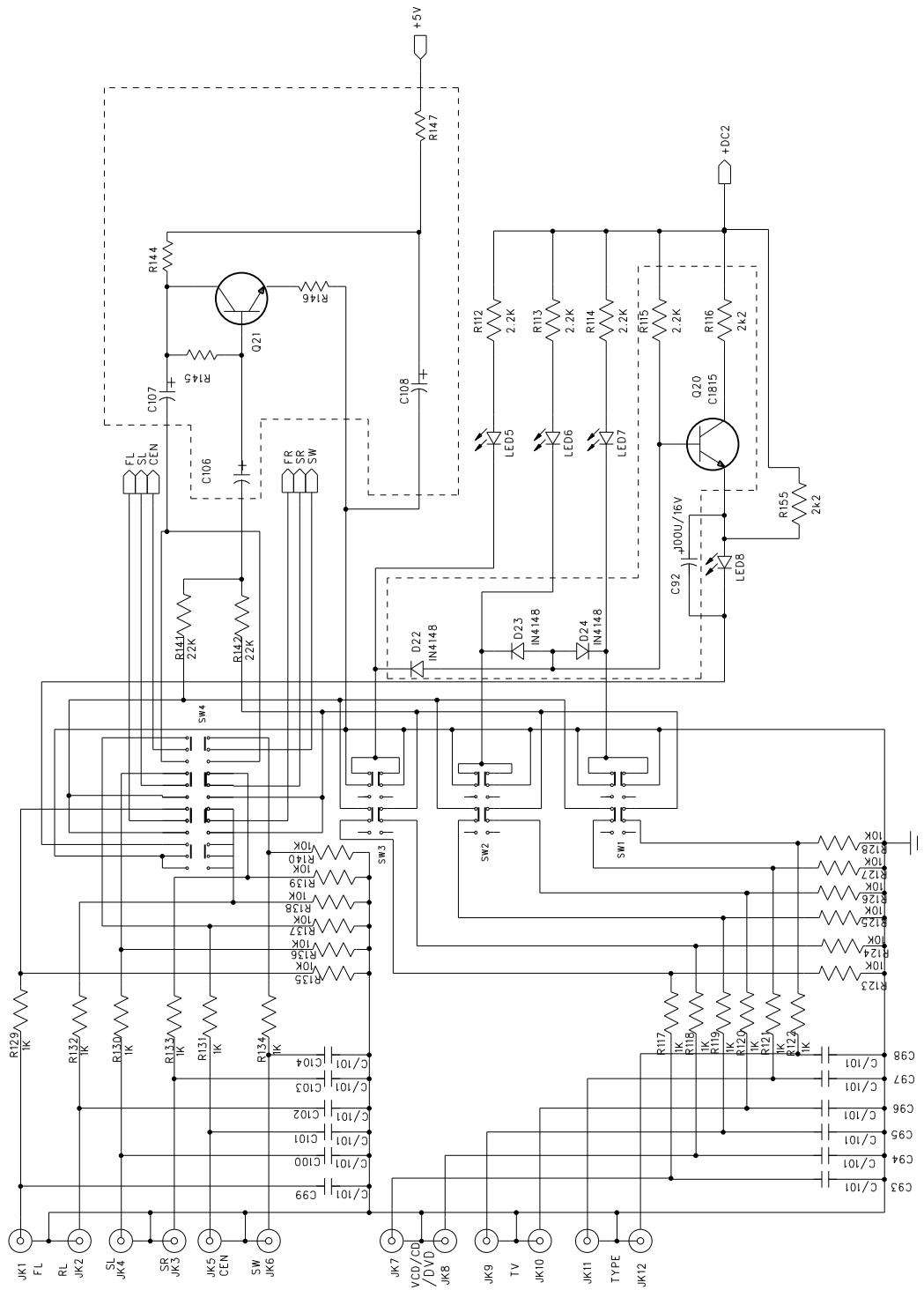
Chapter 6. Schematic Diagram



Notes:

- All resistance values are indicated in "Ω".
($k=10^3 \Omega$, $M=10^6 \Omega$).
- All capacitance values are indicated in "μF".
($\mu=10^{-6} \mu F$).

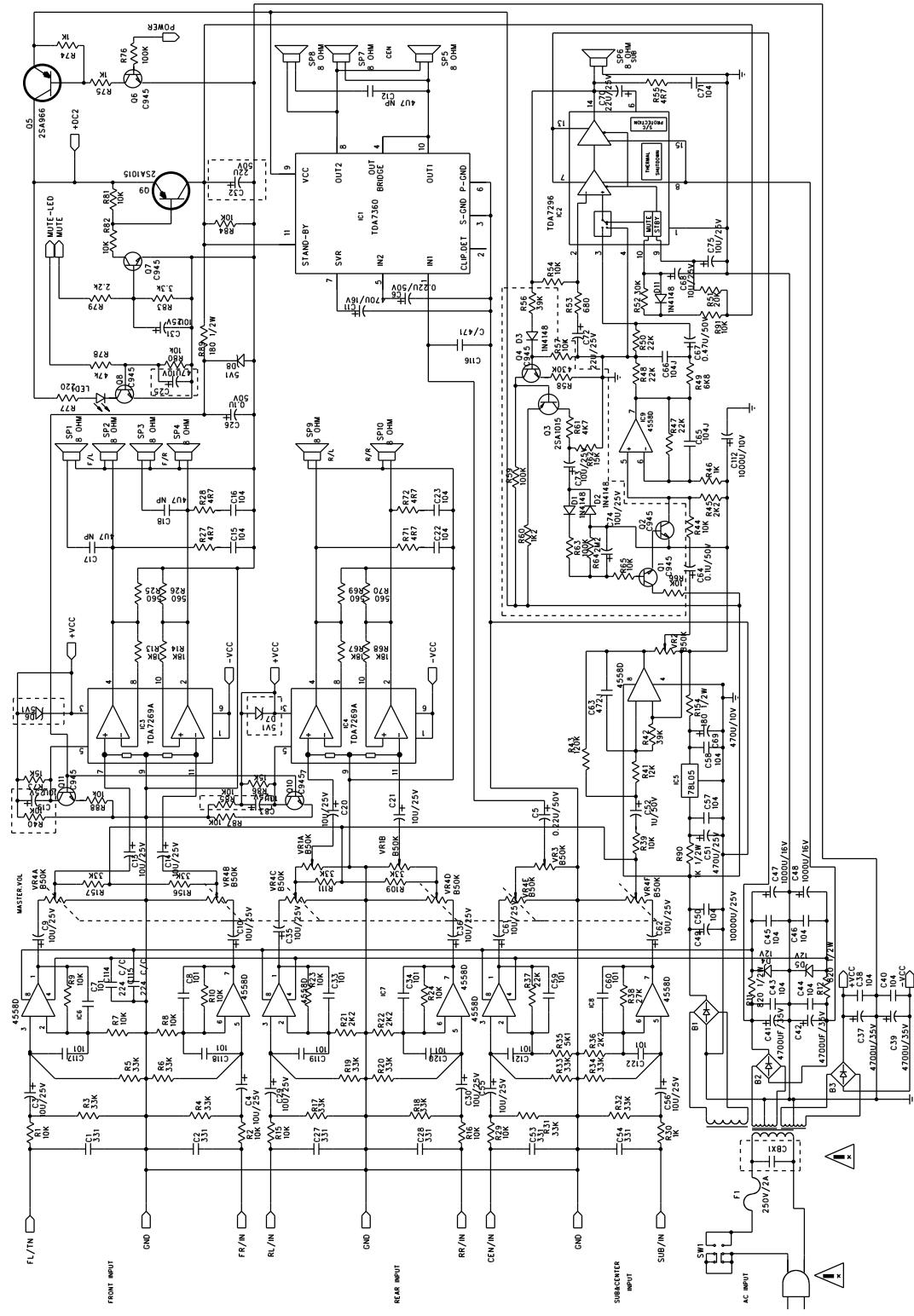
Schematic Diagram



Notes:

1. All resistance values are indicated in "Ω"
($k=10^3\ \Omega$, $M=10^6\ \Omega$).
 2. All capacitance values are indicated in "uF"
($p=10^{-6}\text{ uF}$).

Schematic Diagram



Notes:

1. All resistance values are indicated in "Ω".
($k=10^3 \Omega$, $M=10^6 \Omega$).

2. All capacitance values are indicated in "μF".
($\mu=10^{-6} \mu F$).

Chapter 7. Important Notes

7.1 Packing requirement for sending the PCB assembly by post

PCB assembly is a kind of sophisticated electronic circuit board. Well packing will be required when sending them by post.

- * Some sophisticated IC components are mounted on the PCB assembly, hence it is necessary to pack each PCB assembly with a separate static protecting bag, in order to avoid static electricity.
- * Reliable external packing is also very important when sending the PCB assembly by post, in that it would avoid unnecessarily lost or damage.

7.2 Short of spare parts while repairing a speaker system

If you are short of spare parts when you have some speaker systems waiting to be repaired, it would be recommended to take the necessary parts from one speaker system, so that you may have the as many speaker systems