SERVICE GUIDE

KYE SYSTEMS CORP.

SW-5. 1 3000

Version: 1.0

Total 18Pages (Cover page included)

Revision History

Version	Date	Changes
1.0	Official Release	

Table of Contents

Getting Started

Conventions Used in this Guide

Attention

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

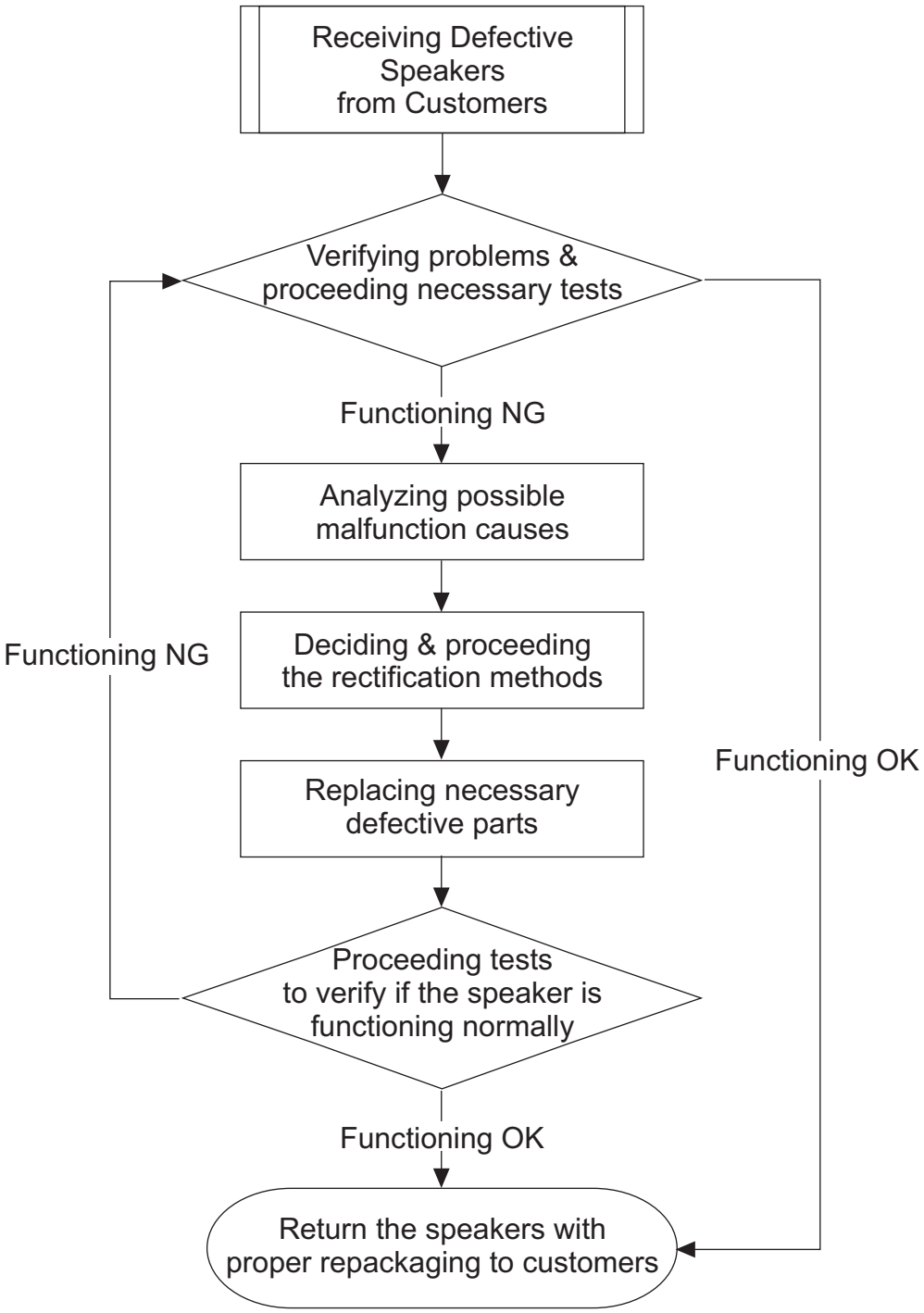
Caution: Information that, if not followed, may result in damage to the product.

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



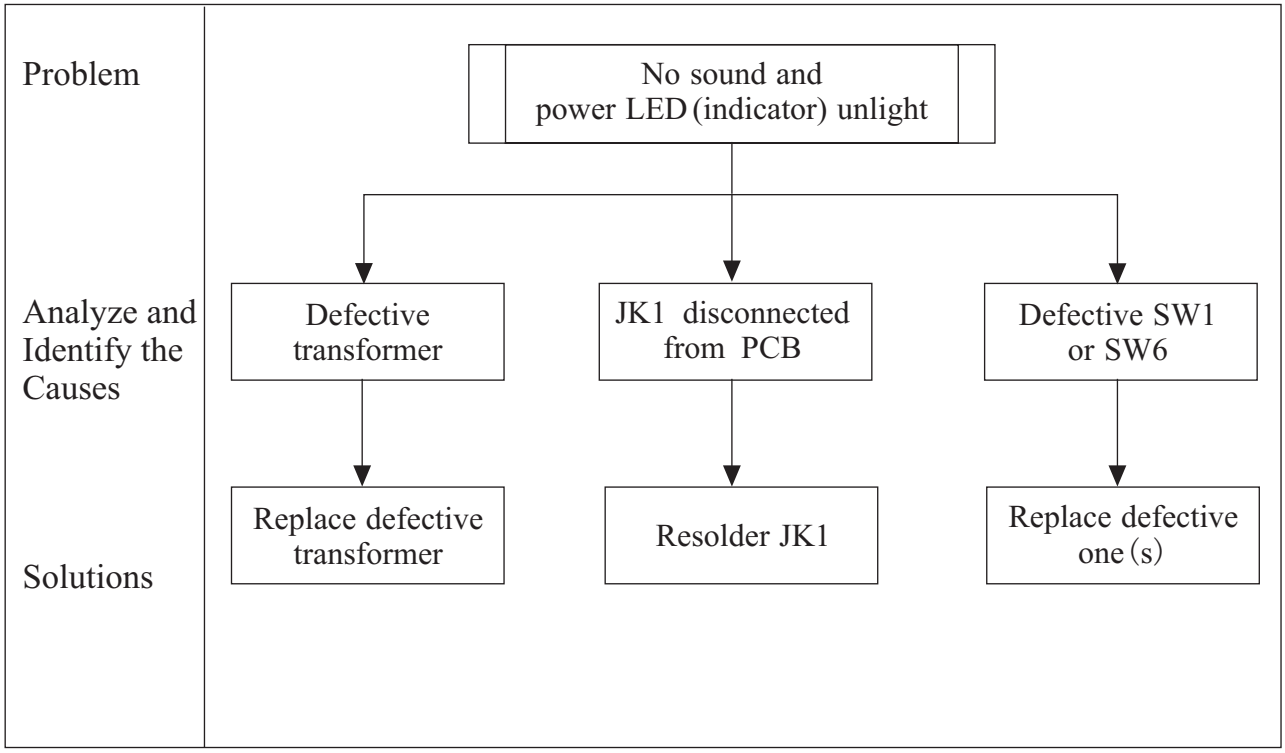
1.2 Problems

Item	Problem Descriptions
1.2.1	No sound and power LED (indicator) unlight
1.2.2	No response when power on
1.2.3	LED indicator unlight
1.2.4	One or more channels no sound
1.2.5	Wire control does not work
1.2.6	Bass control does not work
1.2.7	Headphone does not work

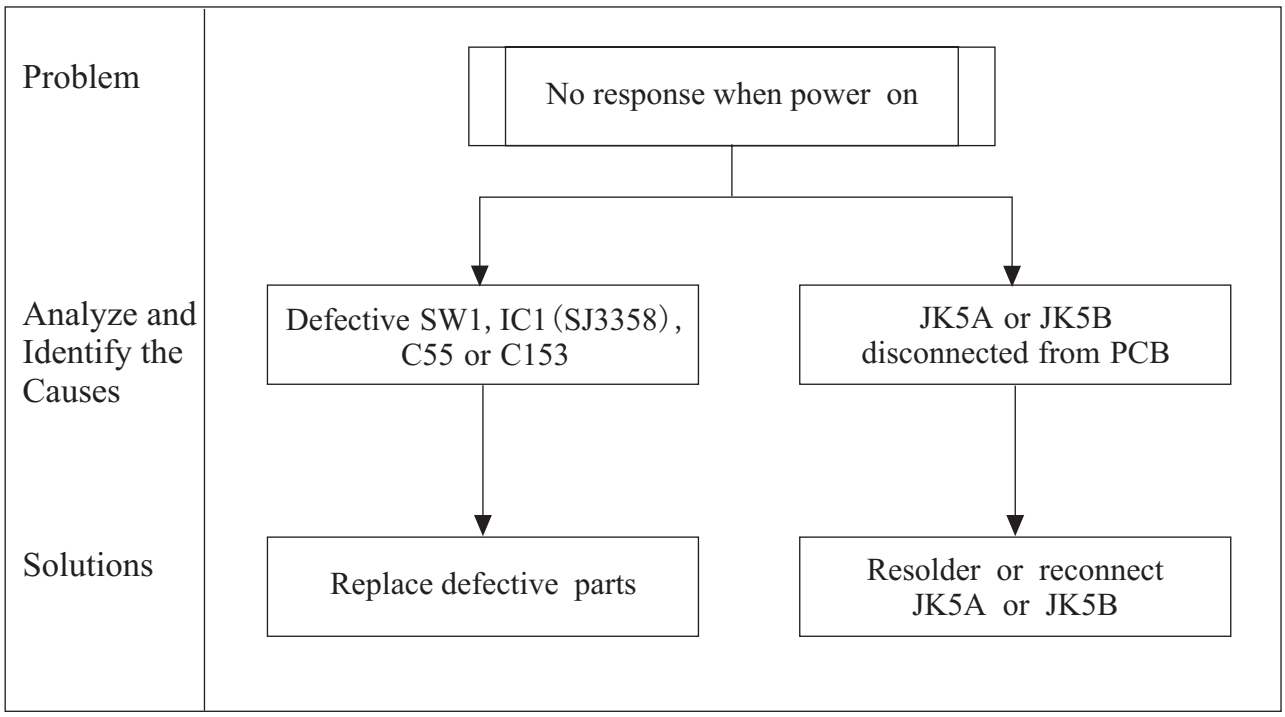
Attention

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.

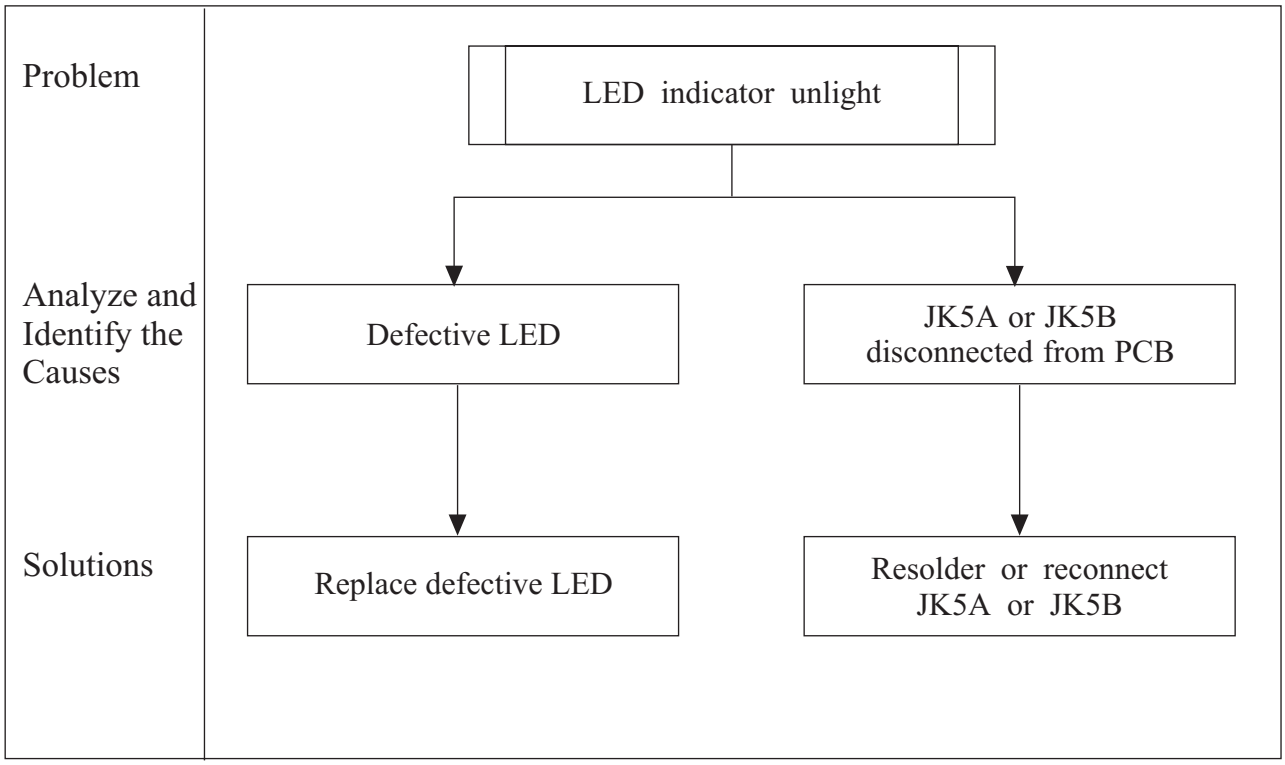
1.2.1 No sound and power LED (indicator) unlight



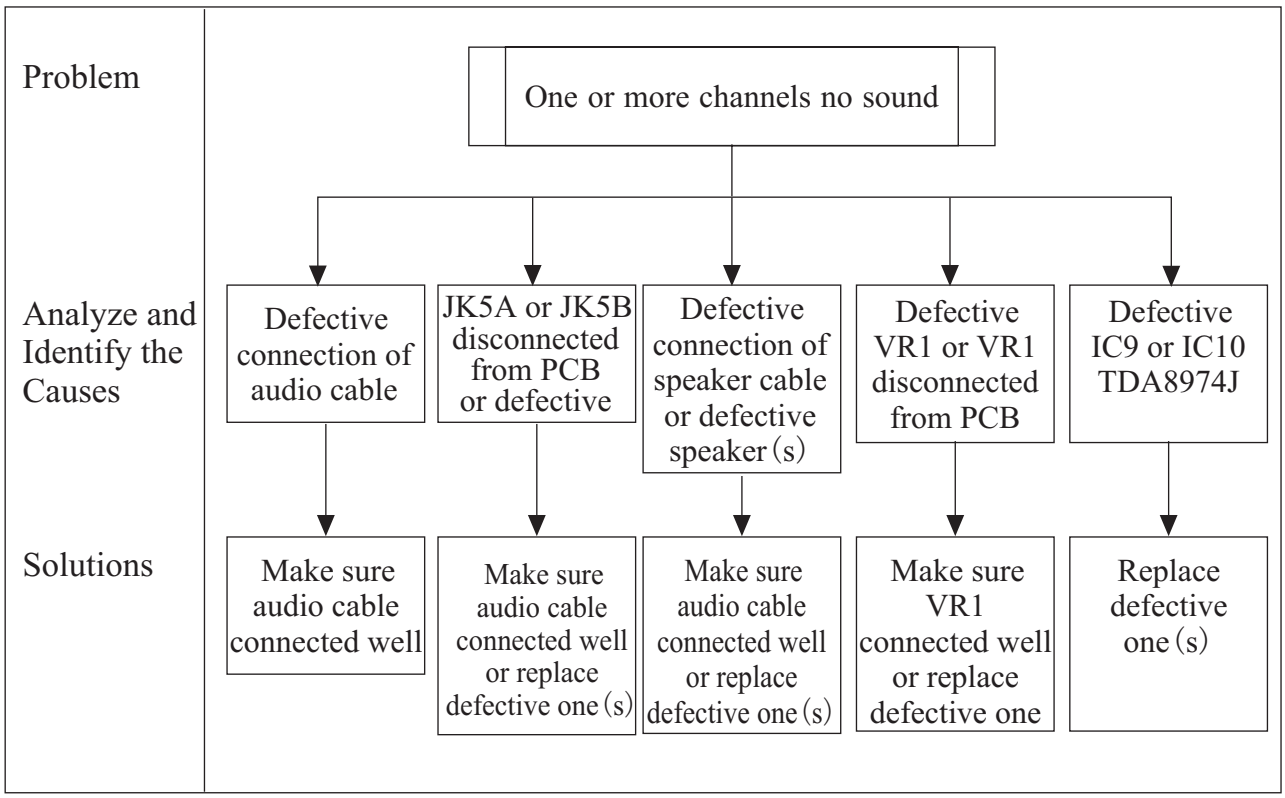
1.2.2 No response when power on



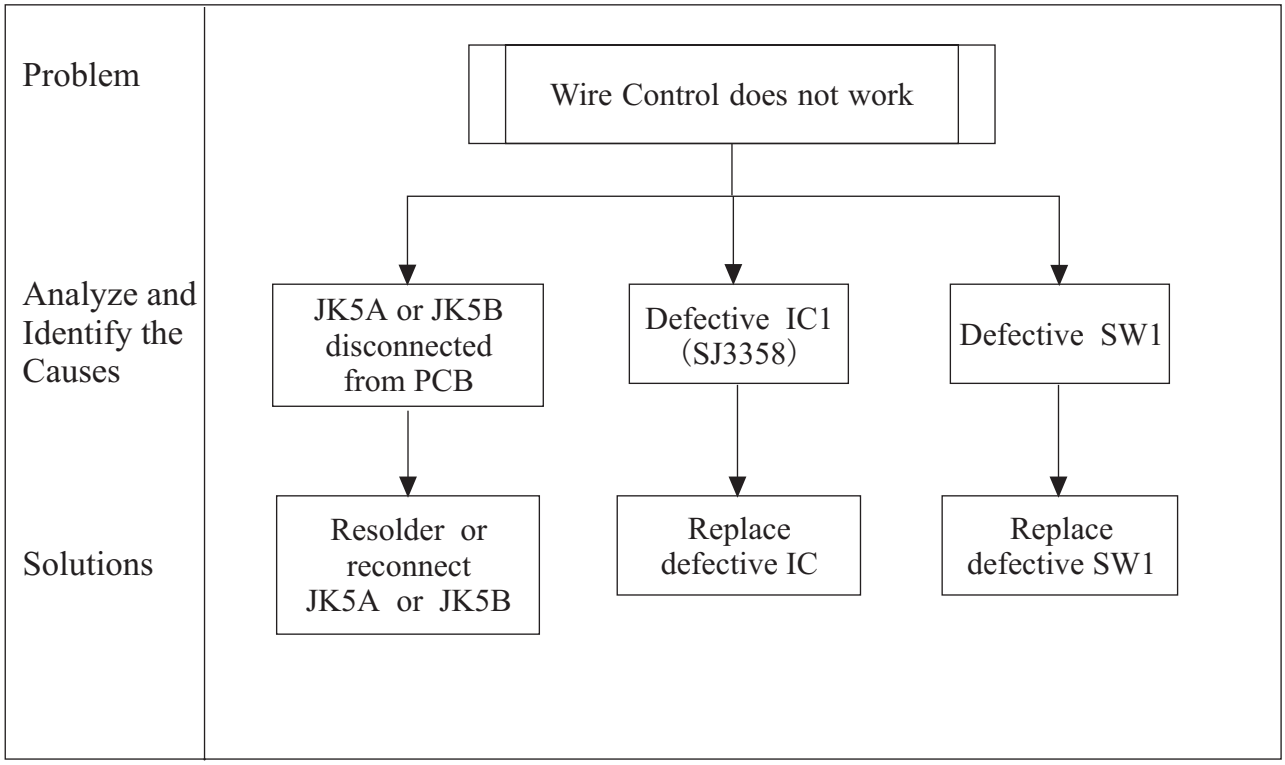
1.2.3 LED indicator unlight



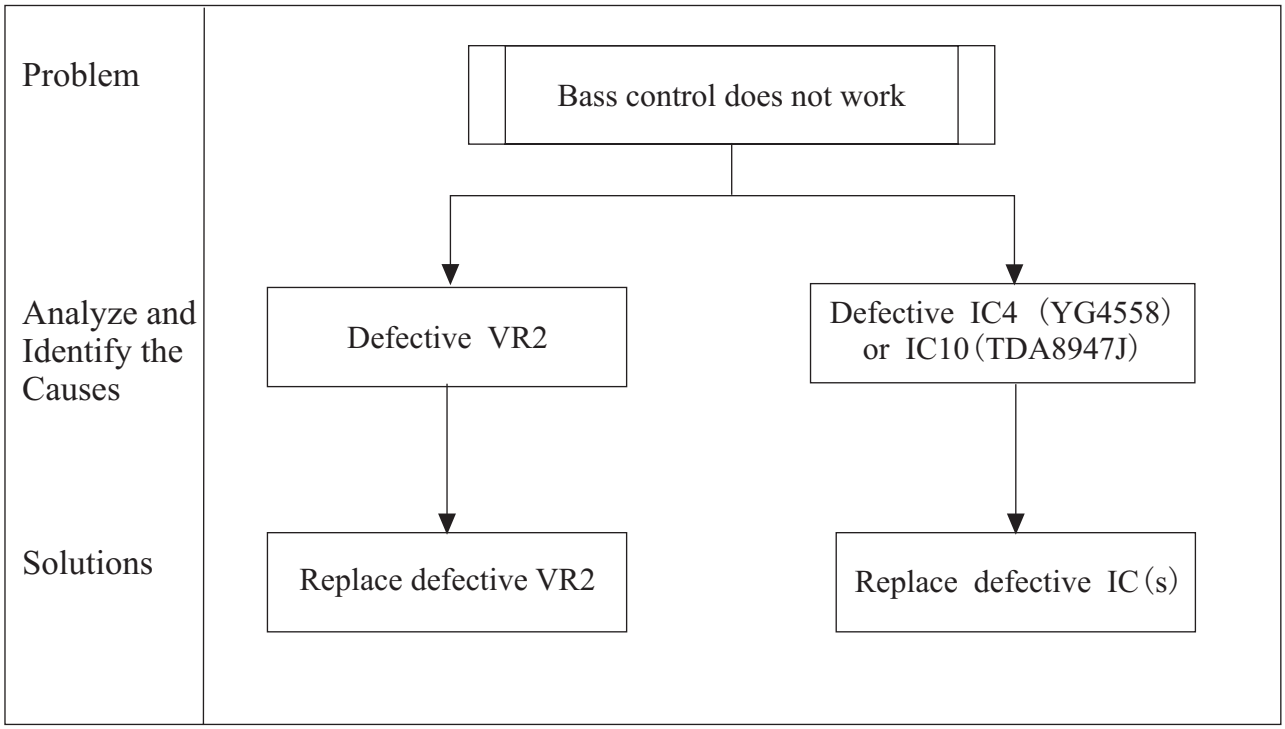
1.2.4 One or more channels no sound



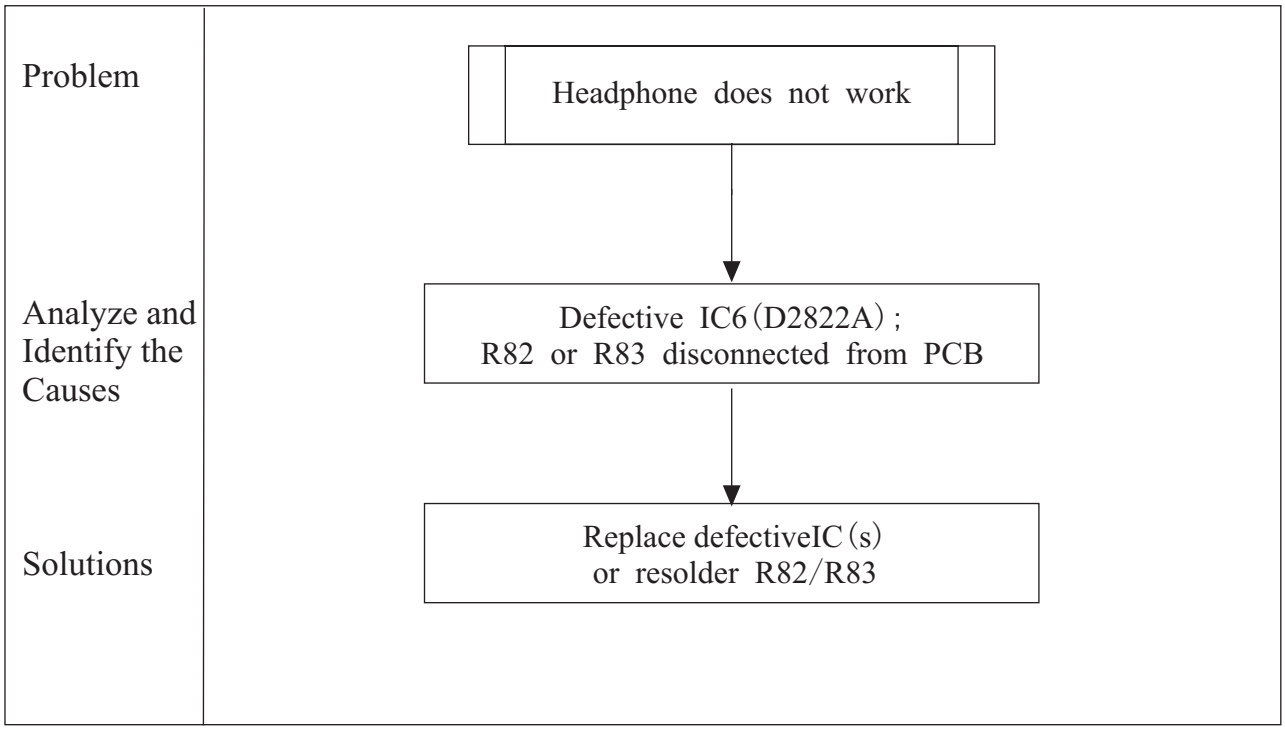
1.2.5 Wire control does not work



1.2.6 Bass control does not work



1.2.7 Headphone does not work



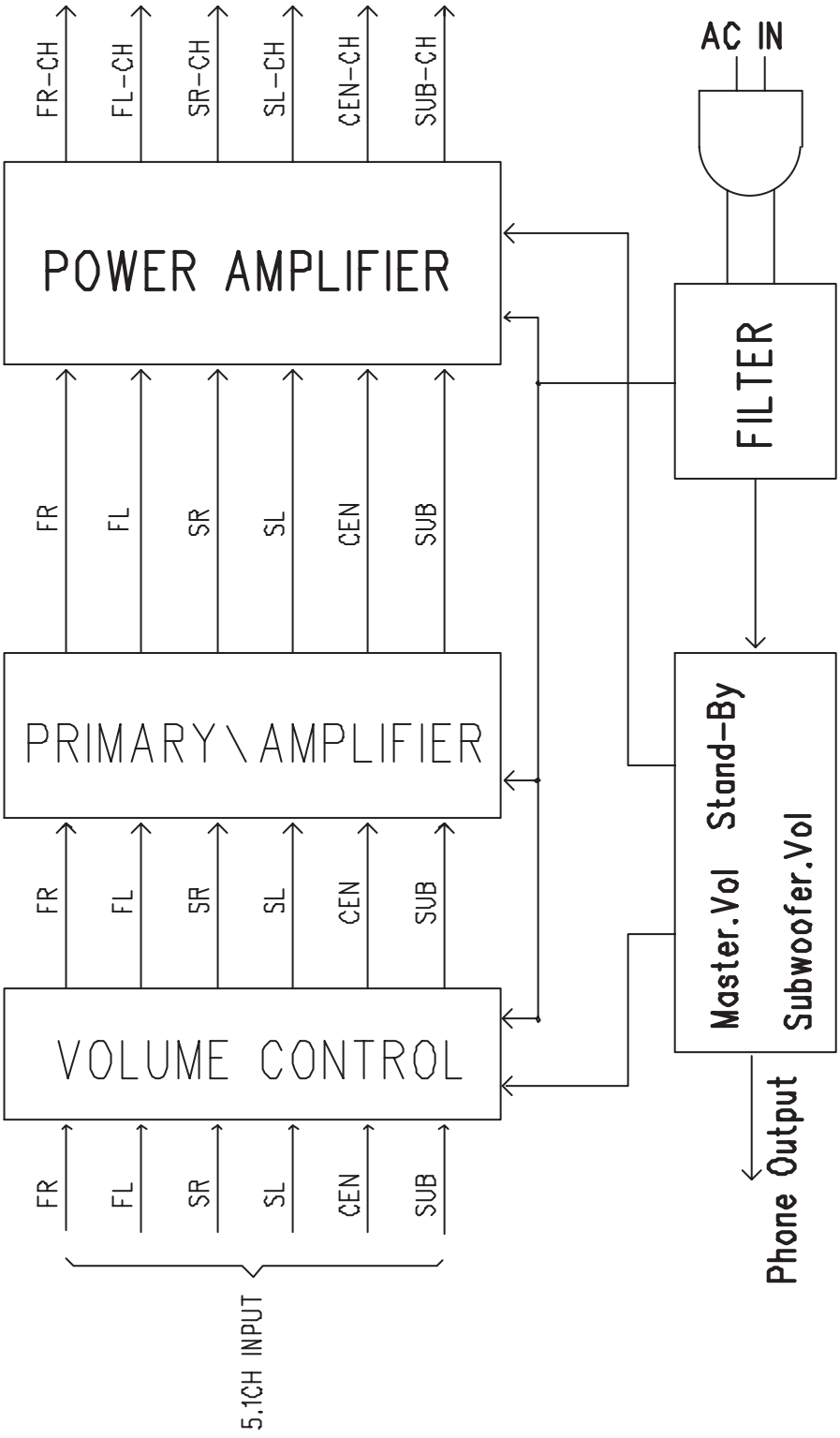
Chapter 2. Specifications

NO.	DESCRIPTION		UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY AT 10%				
		SUBWOOFER	mV		215.5
		CENTER	mV		477
		FRONT	mV		477
		REAR	mV		380.5
2	DISTORTION AT 1 KHz	CENTER	%		0.15
		FRONT	%		0.12
		REAR	%		0.15
	AT 100 Hz		%		0.1
3	OUTPUT POWER AT 10% DISTORTION				
		SUBWOOFER	W		35.7
		CENTER	W		9.6
		FRONT	W		10.13
		REAR	W		10.23
4	S/N RATIO				
		SUBWOOFER	dB		80.5
		CENTER	dB		74
		FRONT	dB		74.1
		REAR	dB		74.3
5	FREQUENCY RESPONSE				
	(DOWN 3dB)	SUBWOOFER	Hz		16~148
		CENTER	Hz		60~160K
		FRONT	Hz		60~200K
		REAR	Hz		60~140K
6	HUM LEVEL (AT VOL. MIN.)				
		SUBWOOFER	mV		0.8
		CENTER	mV		0.6
		FRONT	mV		0.6
		REAR	mV		0.6
	HUM LEVEL (AT VOL. MAX.)				
		SUBWOOFER	mV		1.2
		CENTER	mV		1.1
		FRONT	mV		1.1
		REAR	mV		1.2
7	OPERATING VOLTAGE	MAX.255 VAC			
		MIN.205 VAC			

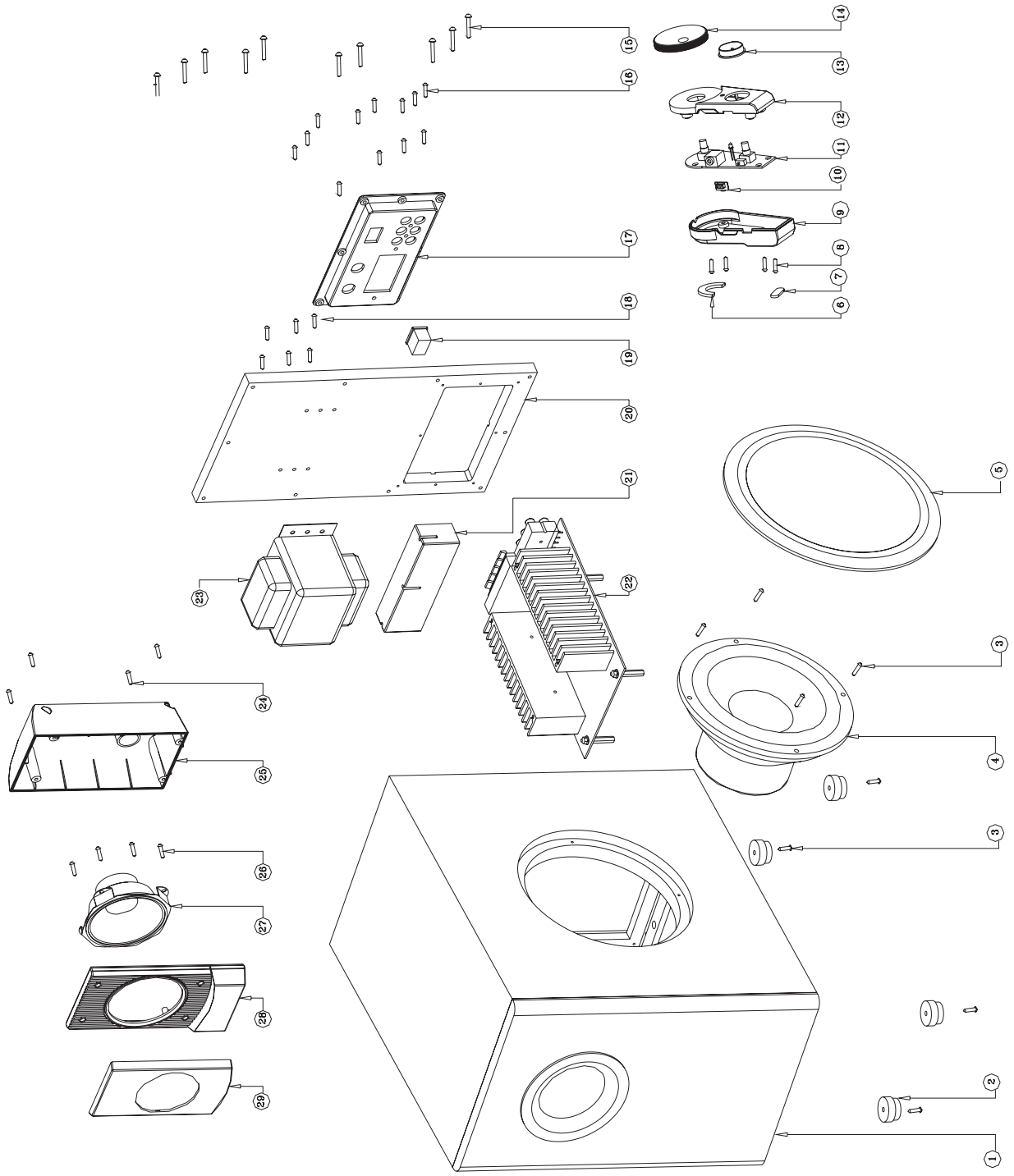
TEST CONDITION:

1) LOAD: SUBWOOFER 4 Ω, FRONT / REAR / CENTER 6 Ω
2) RATED POWER: 500 mW (SATELLITE)
   5.0 W (SUBWOOFER)
   VOLUME AT MAX.
3) AC 230 V / 50 Hz

Chapter 3. Block Diagram



Chapter 4. Exploded View



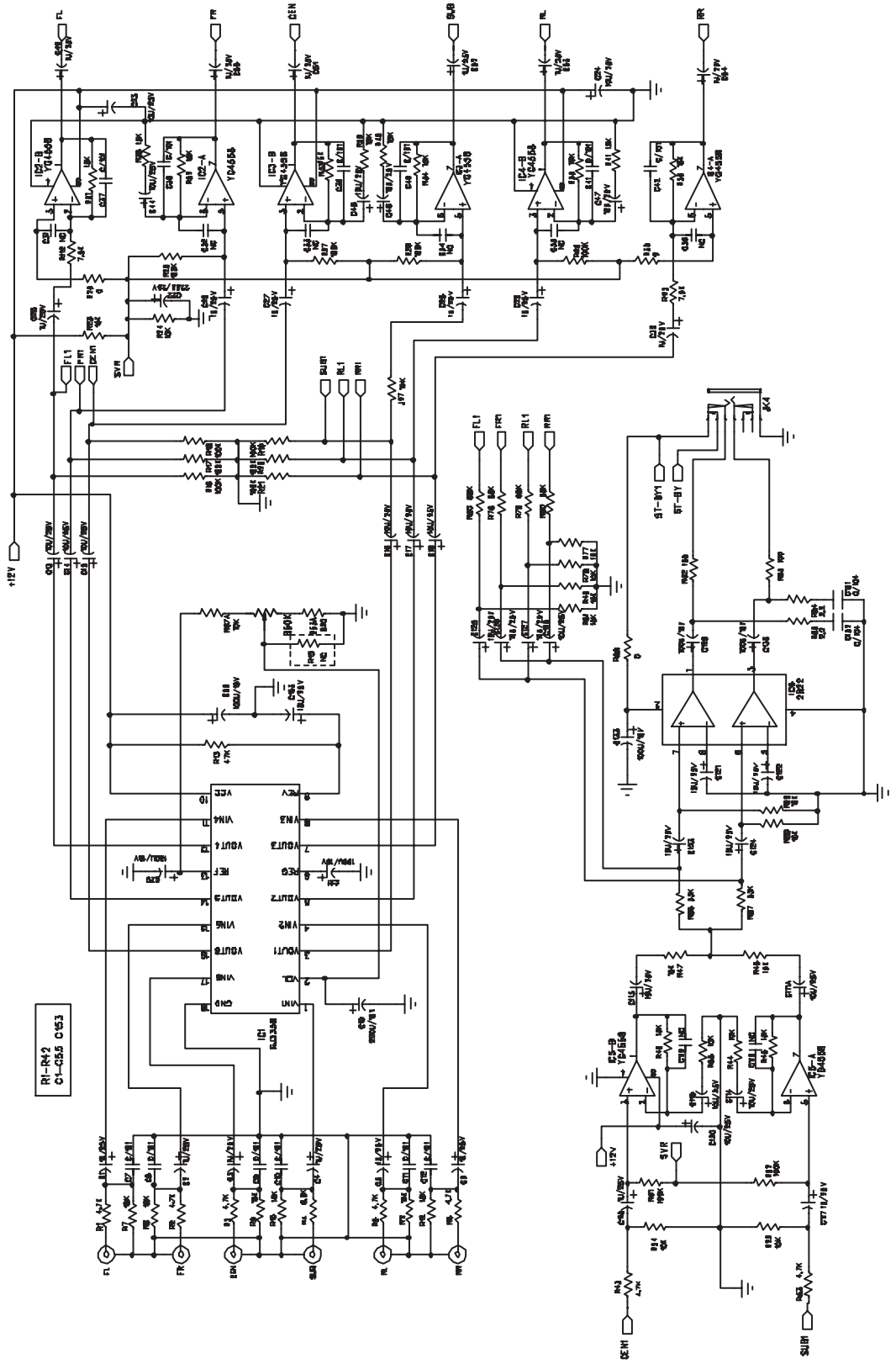
Chapter 5. Part List

Ref. No.	Description	Mfr's Part No.
1	Wooden Case, MDF, Pattern: F-2905-911	RTC1116
2	Foot Washer, 23 x 13mm, Rubber, Black	RT86184
3	Screw, BA3.5 x 16mm, Black	RS71045
4	Speaker, 6.5", 4Ω, 40-60W, Y-D045-E)	RT20805
5	Fabric Front, for Subwoofer, JY-3A-05	RT10D64
6	Foot Washer, EVA, R17.9 x R11.1 x 2.0mm	RT86889
7	Foot Washer, EVA, 23.3 x 7.3 x 1.0mm	RT86890
8	Screw, PTB2.6 x 8mm, Black	RT71384
9	Rear Cover, for Wire Control, Black	RT10D69
10	Button, for Power, Painting Silver 877C	RT10D72
11	Assembly PCB, for Control, 94V0, Ver1.0	RT50J46
12	Front Panel, for Wire Control, Black	RT10D68
13	Knob, for Bass, Painting Silver 877C	RT10D71
14	Knob, for Volume, Painting Silver 877C	RT10D70
15	Screw, BA3.5 x 20mm, Black	RT71178
16	Screw, PA3 x 12mm, Black	RS71021
17	Rear Plastic Panel, Black	RT10D62
18	Screw, TM3 x 18mm, Black	RT71151
19	Switch, RA12KKAW0F, Black	RT56417
20	Rear Board, for Subwoofer, MDF, Black	RTC1117
21	Airproof Cover, Black	RT10D63
22	Assembly PCB, for Amplifier, 94V0, Ver1.0	RT50J45
23	Transformer, 230V, 17V/4A, JUSP-60602U	RT31886
24	Screw, PTB3 x 12mm, Black	RT71136
25	Rear Cover, for Satellite, Black	RT10D66
26	Screw, TA3 x 10mm, Black	RS71026
27	Speaker, 3", 6Ω, 8-12W, Y-E038-E1, Magnetically Shielded	RT20806
28	Front Panel, for Satellite, Painting Silver 877C	RT10D65
29	Fabric Front, for Satellite	RT10D67

Chapter 6. Other Key Parts

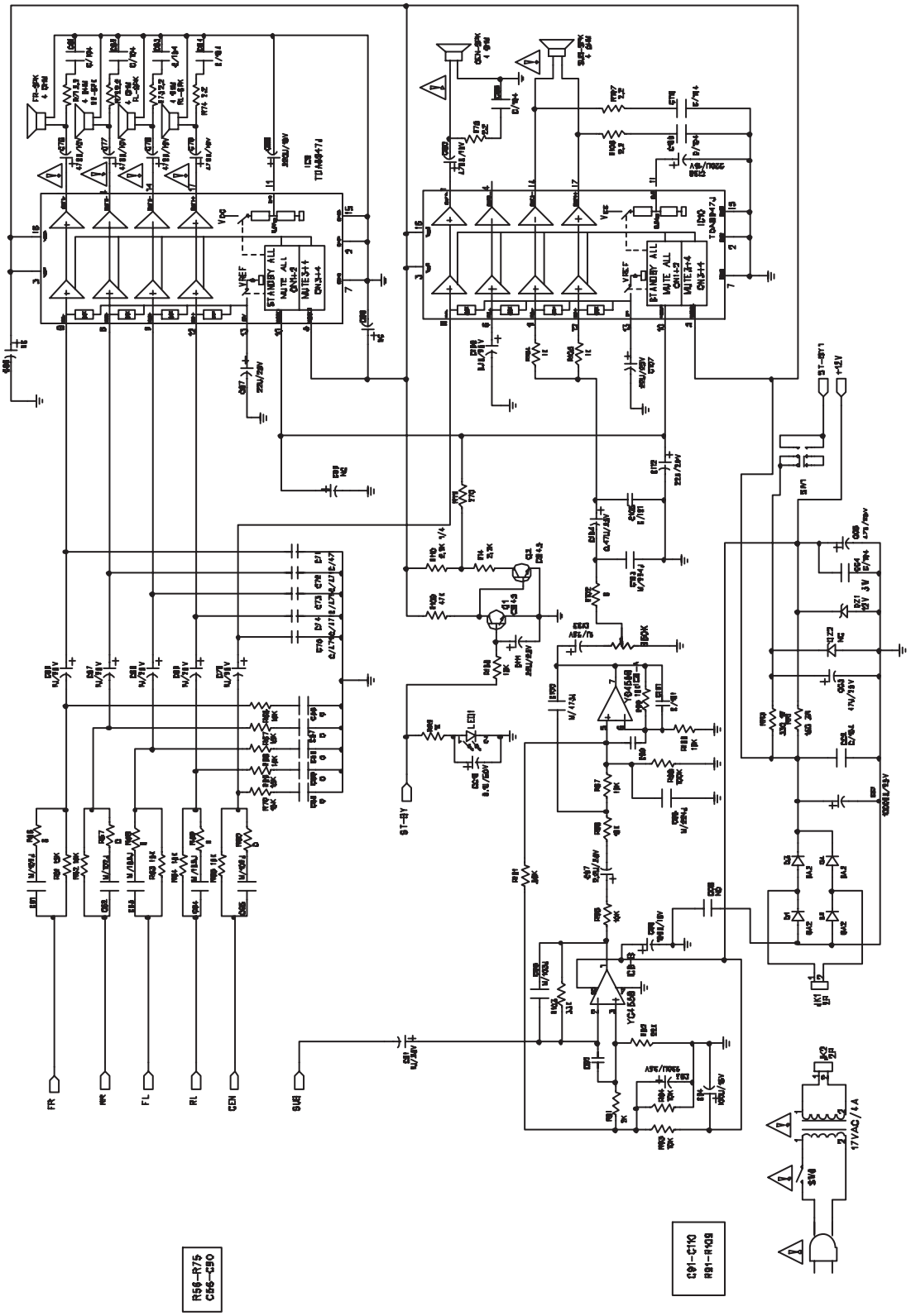
Ref. No.	Description	Mfr's Part No.
1	Speaker Cable, 2.1m, Red-Black, Zero to Zero	RT42431
2	Speaker Cable, 5.1m, Red-Black, Zero to Zero	RT42432
3	AC Power Cord, 6', Black, VDE, H05VVH2-F	RT40170
4	Audio Cable, 2m, Black, OD=2mm, 2RCA to 3.5mm Stereo Plug (Light Green)	RT41479
5	Audio Cable, 2m, Black, OD=2mm, 2RCA to 3.5mm Stereo Plug (Black)	RT41480
6	Audio Cable, 2m, Black, OD=2mm, 2RCA to 3.5mm Stereo Plug (Orange)	RT41481
7	VR, RV120N-3V-15FO-B503-EP	RT56A59
8	Phone Jack, 3.5 Stereo, Light Green, 7 Pin	RT56850
9	VR, RC09N-1V-18FO-B5030EP	RT56A19
10	LED, 3BW4-01, Blue Light	RT55175
11	IC, YG4558	RS56040
12	IC, TDA8947J(N3), DBS-17P	RT56A50
13	IC, SJ3358, DiP-18	RT56A18
14	IC, D2822Am DiP-8	RT56A16
15	RCA Jack, White-White-White, Red-Red-Red	RT56268
16	Diode, 6A2	RT55040
17	Diode, 12V/3W, BZX2C 12	RT55189
18	Inductance, 2SC945G	RS55013
19	Heat Sink, 115.2 x 50 x 26.6, Aluminium	RT72281
20	Heat Sink, HS-65, 115 x 27 x 40mm, Aluminium	RT72290
21	Copper Pole, Hex 5.0 x 32mm	RT71164
22	Switch, RA12KKAWOF, Black	RT56417

Chapter 7. Schematic Diagram



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

Chapter 7. Schematic Diagram



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

Chapter 8. Important Notes

8.1 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.

8.2 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