SERVICE GUIDE

KYE SYSTEMS CORP.

SP-HF1250X

Version:1.0
Total 14 Pages (Cover Page included)

Revision History

Version	Date	Changes
1 . 0	Official Release	

Service Guide

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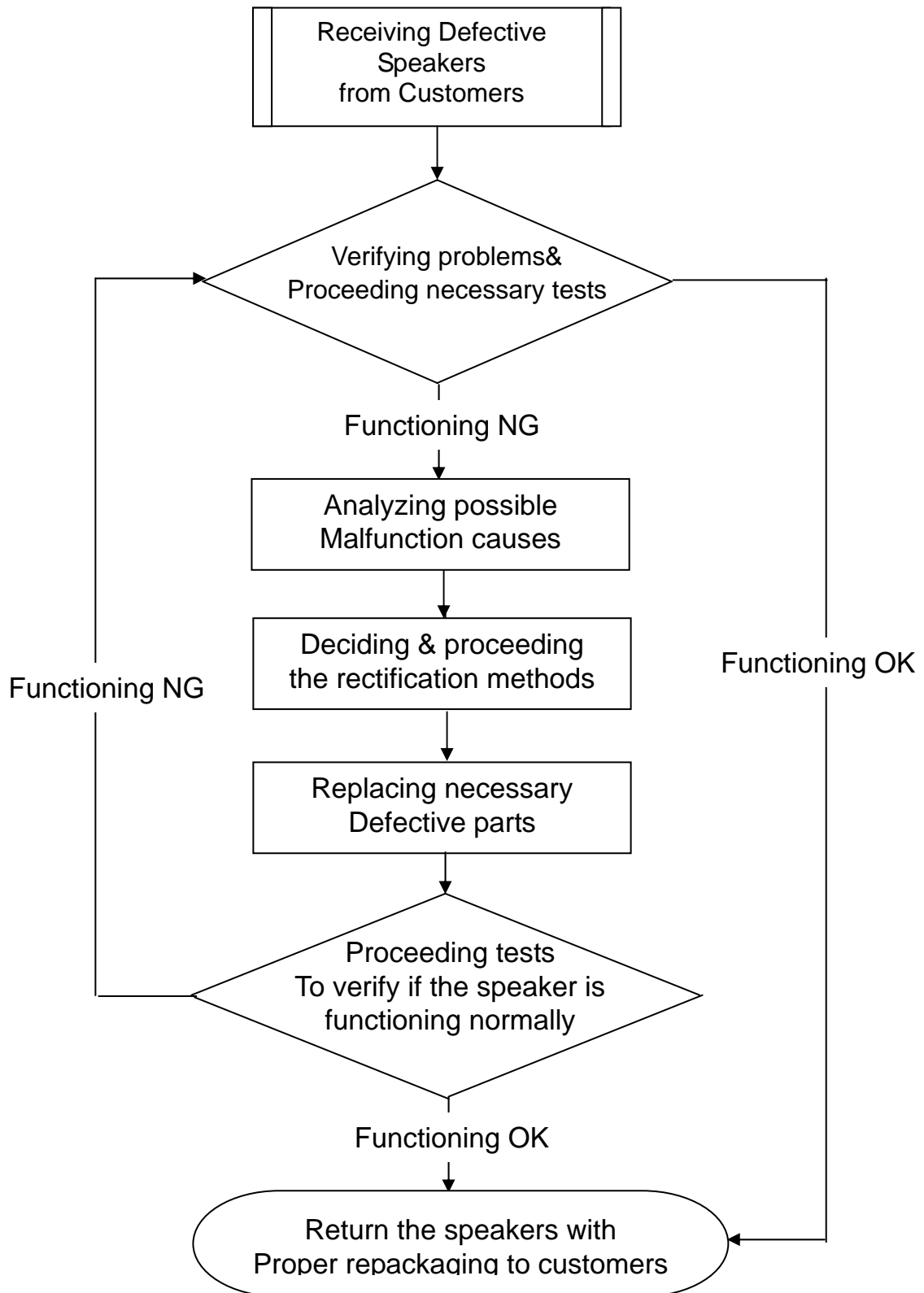
Disconnect the AC power cord from the AC outlet before performing any maintenance on the speakers.

Do not perform any maintenance with wet hand.

Prevent foreign substance, 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

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┌─────────────────────────┐
│   Receiving Defective   │
│        Speakers         │
│     from Customers      │
└─────────────────────────┘
             │
             ▼
         ╱────────────╲
        ╱ Verifying    ╲
        ╲ problems&     ╱
        ╱ Proceeding   ╲
         ╲ necessary tests ╱
            ╲────╱
```

Functioning NG

Functioning NG   Functioning OK

┌─────────────────────────┐
│   Analyzing possible   │
│   Malfunction causes   │
└─────────────────────────┘

┌─────────────────────────┐
│ Deciding & proceeding │
│ the rectification methods│
└─────────────────────────┘

┌─────────────────────────┐
│   Replacing necessary   │
│   Defective parts   │
└─────────────────────────┘

Proceeding tests
To verify if the speaker is
functioning normally

Functioning OK

Return the speakers with
Proper repackaging to customers

ervice

Guide

SP-HF1250X

1.2 Problems
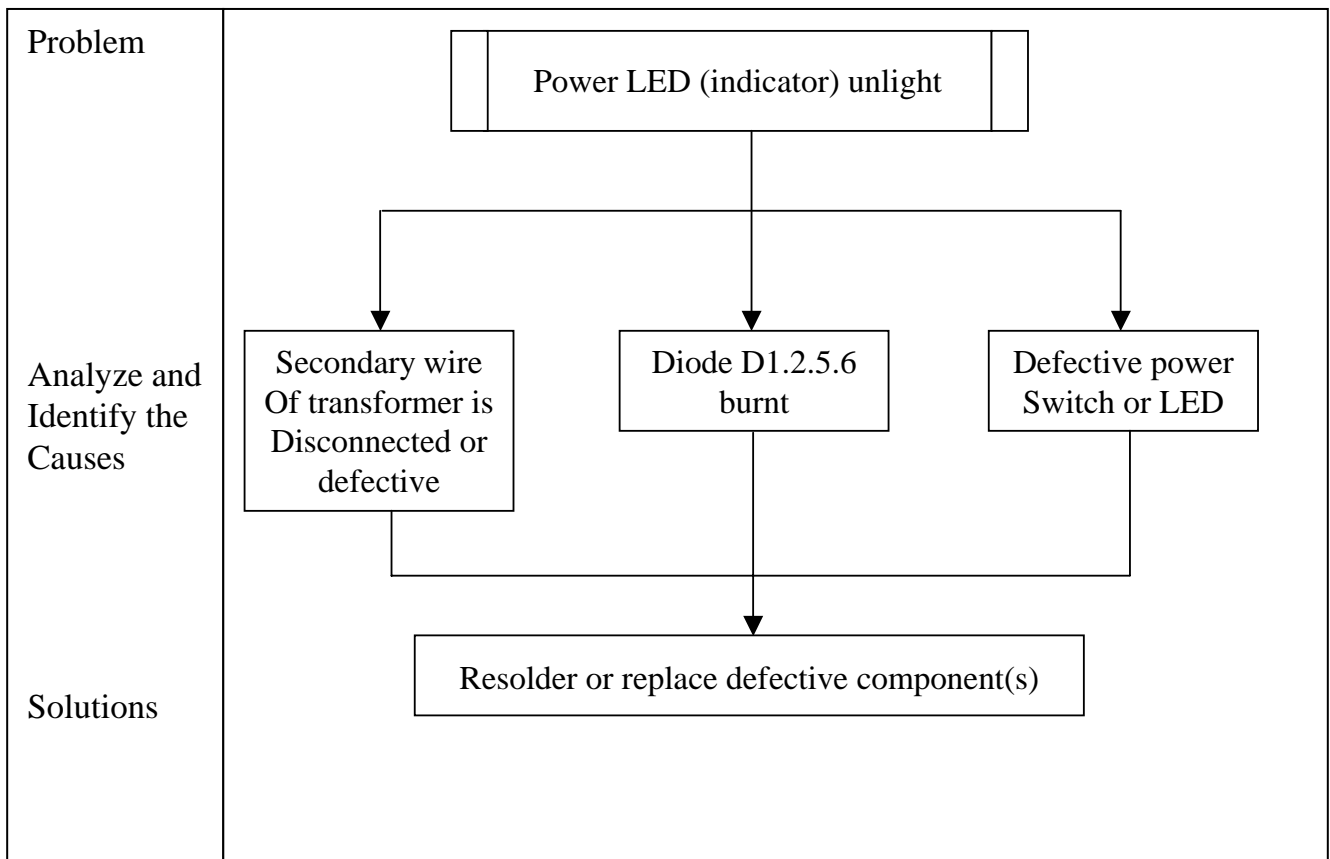
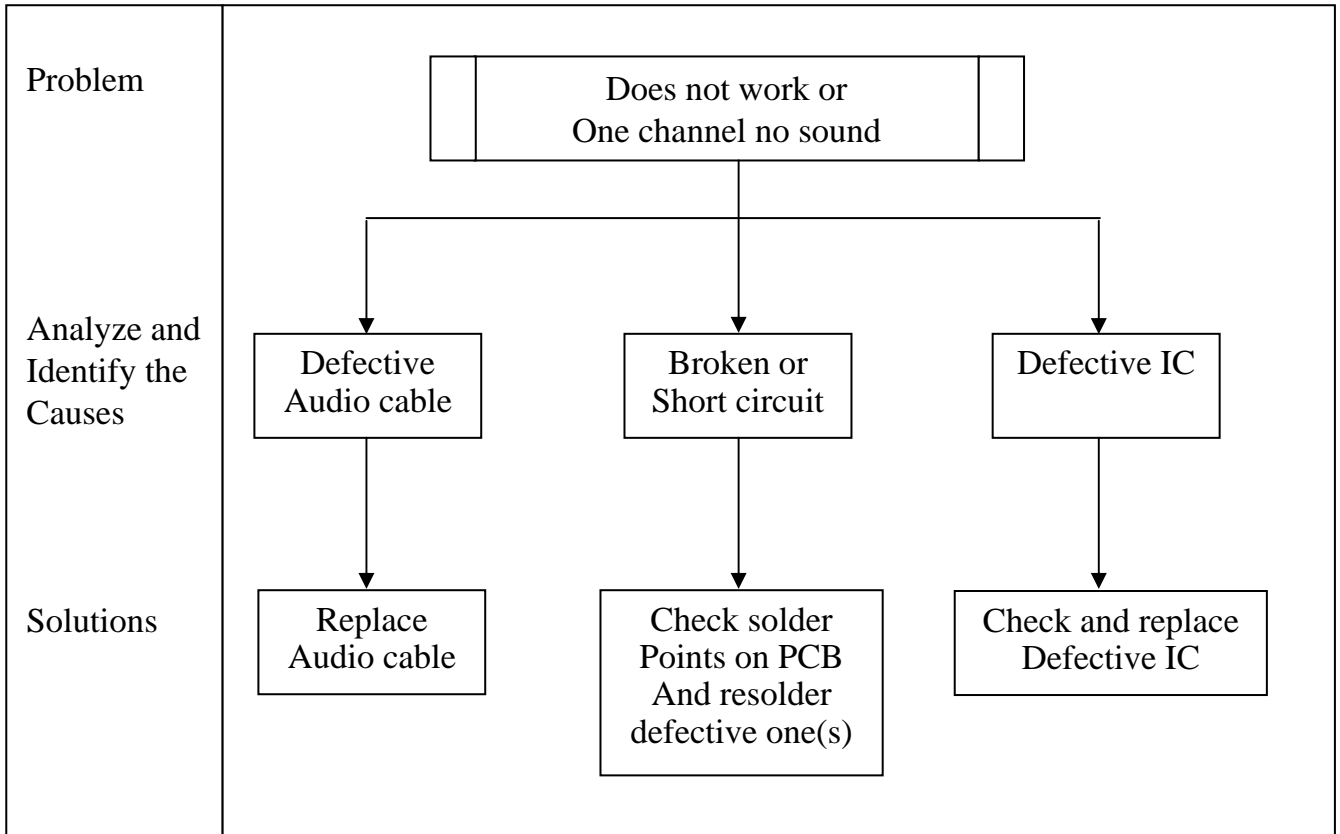| Item	Problem descriptions
1.2.1	Power LED (indicator) unlight
1.2.2	Does not work or one channel no sound
1.2.3	Noise

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 Power LED (indicator) unlight

Problem	Power LED (indicator) unlight
Analyze and Identify the Causes	Secondary wire Of transformer is Disconnected or defective Diode D1.2.5.6 burnt Defective power Switch or LED
Solutions	Resolder or replace defective component(s)

1.2.2 Does not work jor jone channel no sound

Problem	**Does not work or** **One channel no sound**
Analyze and Identify the Causes	**Defective** **Audio cable** **Broken or** **Short circuit** **Defective IC**
Solutions	**Replace** **Audio cable** **Check solder** **Points on PCB** **And resolder** **defective one(s)** **Check and replace** **Defective IC**

1.2.3 Noise

Problem	**Noise**
Analyze and Identify the Causes	**Component(s) around** **IC is/are defective** **Defective VR** **Defective IC**
Solutions	**Check and replace** **defective component(s)** **Replace** **Defective VR** **Replace defective IC**

Chapter 2.   Specifications

| No.	DESCRIPTION		UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY AT 10%		mV	340	340+/-50
2	DISTORTION AT 1 KHz		%	0.15	<0.5
3	OUTPUT POWER AT 10% DISTORTION		W	18	18+/-1
4	S/N RATIO		dB	74	>60
5	CHANNEL SEPARATION		dB	49	>40
6	FREQUENCY RESPONSE				
	(DOWN 3dB)	(LOW)	Hz	20	+/-10%
		(HIGH)	KHz	20	+/-10%
7	HUM LEVEL (AT VOL. MIN.)		mV	1	<3
	HUM LEVEL (AT VOL. MAX.)		mV	2.5	<5
8	OPERATING VOLTAGE	MAX.253VAC			
		MIN. 207VAC			

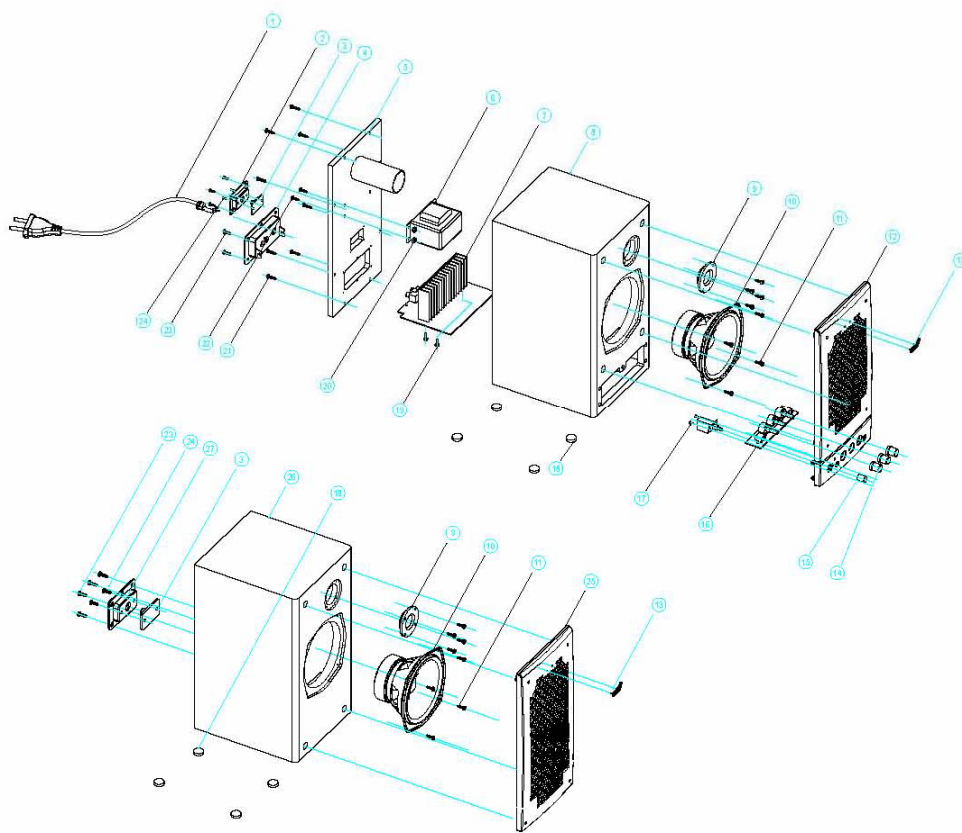TEST CONDITION:

1) LOAD 4Ω

2) RATED POWER 1 W

   VOLUME AT MAX.

Chapter 3.   Block Diagram
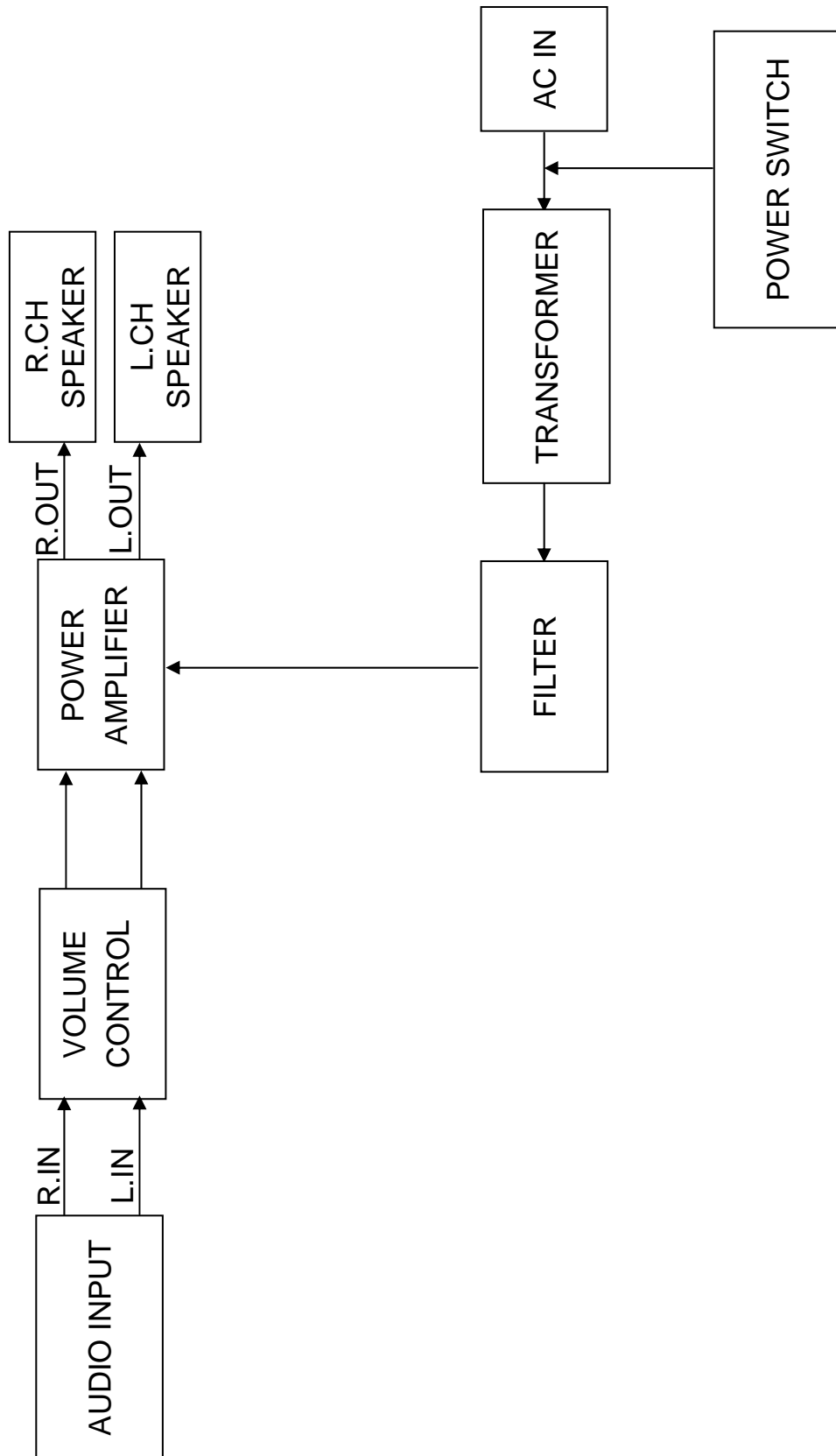
Chapter 4.   Exploded View

Chapter 5. Part List

Ref. No.	Description	RS Part No.	Mfr's Part No.
1	AC Cord, 5.9',Black Color 250V/2.5A 2PIN,CE		17U2115125100-0
	Output Panel, SP-HF1250X, Black Color		
2	RCA, Yellow Color		1
	Input Panel, SP-HF1250X, Black Color		
3	Rear board, SP-HF1250X, Black Color 9T MDF		0114HIPS00007-0
	Transformer, 230V, 8V/250mA		
4	Function PCB Assembly, SP-HF1250X, 94V0		1
	Wrap board(L) SP-HF1250X, 12T MDF		
5	Speaker, 1″ 4Ω , 15W		2021184084101-0
6	Speaker, 5.25″ 4Ω, 20W, Magnetically Shielded		2
7	Screw, HSA3.5x16mm, Black		0114HIPS00021-0
	Cloth frame(L), SP-HF1250X, Black Color		
8	Badge, SP-HF1250X, Silver Color ABS		1
	Knob, SP-HP1250X, Silver Color HIPS		
9	Button, SP-HF1250X, Silver Color HIPS		1003040910200-0
	Control PCB Assembly, SP-HF1250X, 94V0		
10	Screw, PWPA2.6x10mm, Black		1
	Rubber Foot One side tape glue		
11	Screw, PPB 3x8mm, Black		2225400020001-0
	Nut M4, Black Color		
12	Screw, BPA 3.5x20mm, Black		1
	Screw, PWPB M4x16mm, Black		
13	Screw, BPA 3x12mm, Black		180103594V001-0
	Screw, BPA 3x10mm, Black		
14	Cloth frame(R), SP-HF1250X, HIPS Black Color		1
	Wrap board(R),SP-HF1250X, 12T MDF		
15	Terminal board, SP-HF1250X, Black Color HIPS		9401040012500-0
16			3
17			0820150401312-0

18			1
19			084020045A112-0
20			3
21			4102H35016A06-0
22			2
23			9101086078093-0
24			1
25			01070ABS03001-
26			01
27			0107HIPS00001-0
			1
			0107HIPS81001-0
			2
			180303594V001-0
			1
			4102N26010A02-0
			1
			4311020050010-0
			1
			4101P30008B02-0
			1
			4107300402020-0

				1
				4102B35020A02-0
				1
				4101N40060B02-0
				1
				4102B30012A02G
				01
				4102B30010A02-0
				1
				9101086078105-0
				1
				9401030011760-0
				1
				0114HIPS00017-0
				1

Chapter 6.   Important Notes

6.1 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.

6.2 Short of spare parts while repairing a speaker system

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

Chapter 7.   Circuit schematic