SERVICE GUIDE

KYE SYSTEMS CORP.

SW-HF5.1 5000

Version:1.0

Total 26 Pages (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.

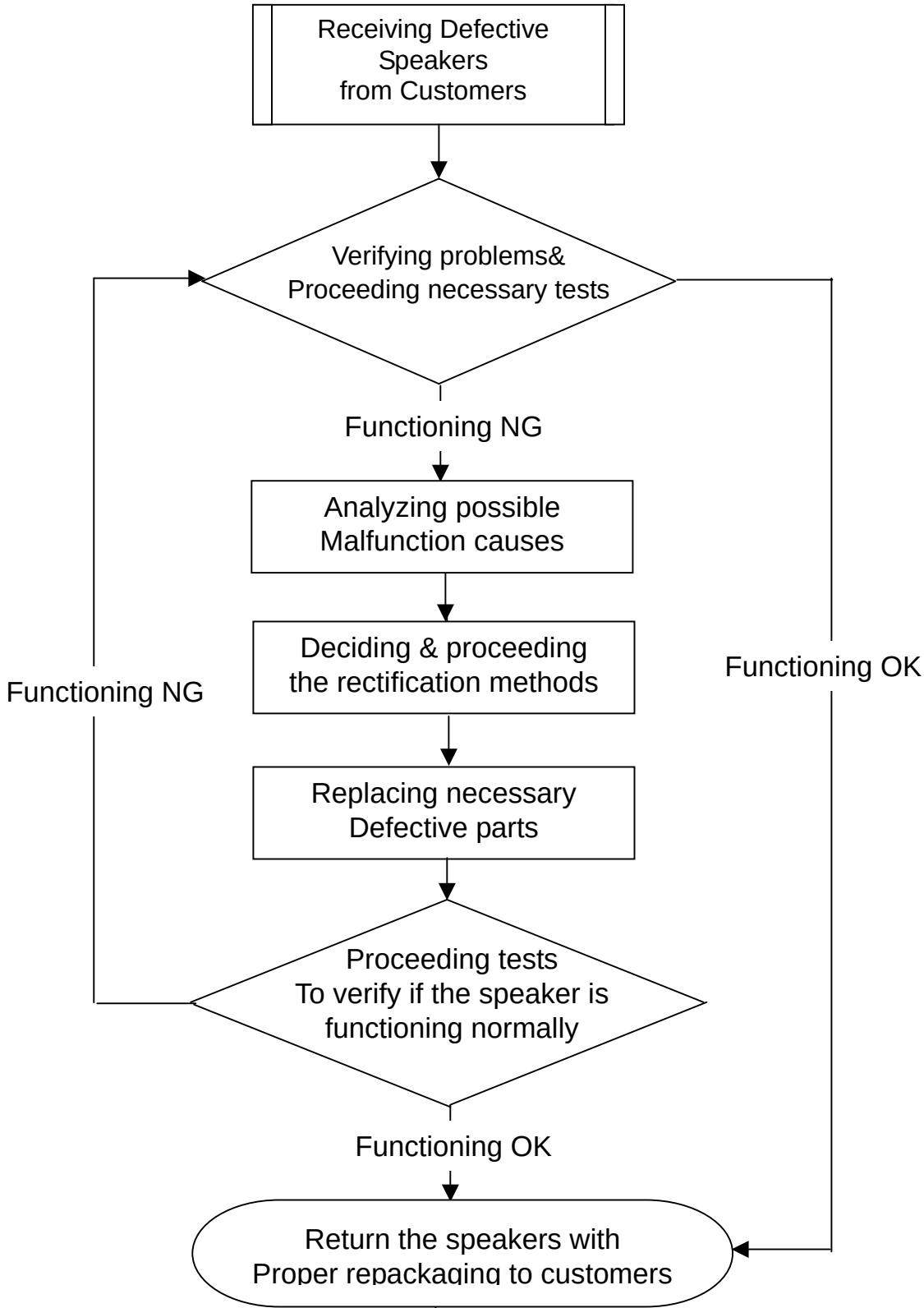
Caution: Information that, if not followed, may result in damage to the product.

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 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



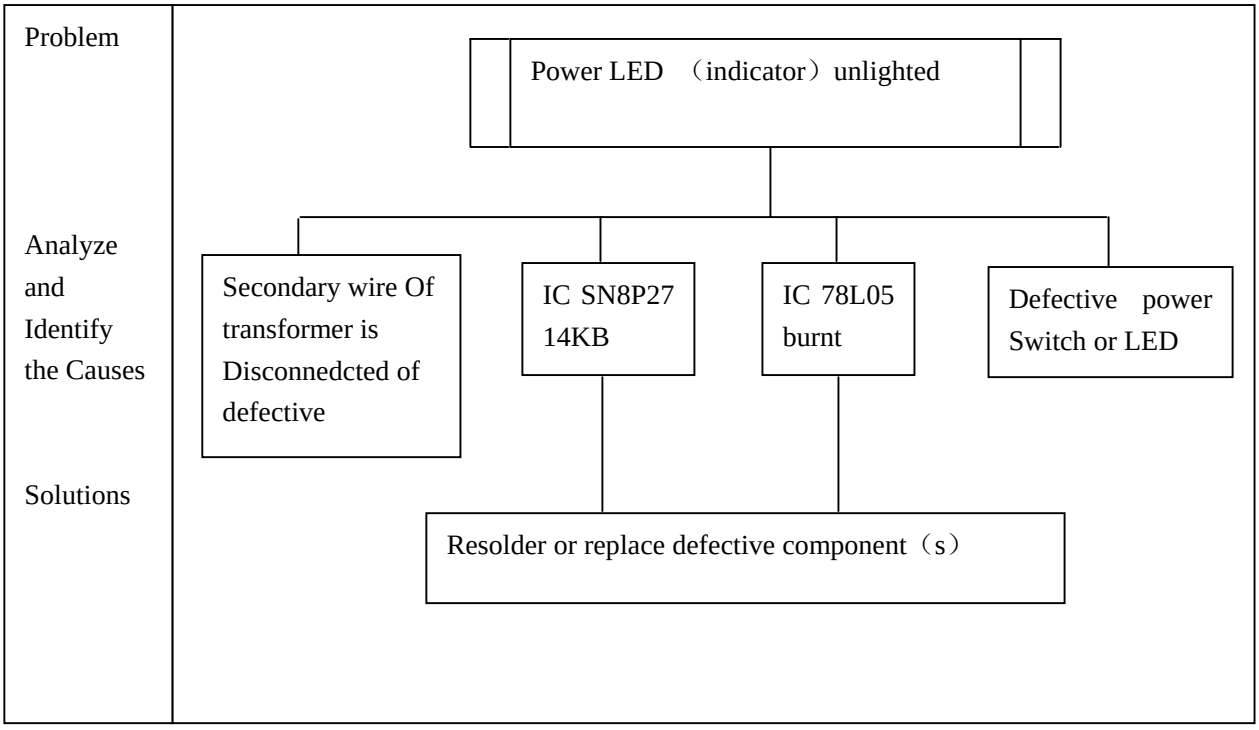
1.2 Problems

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

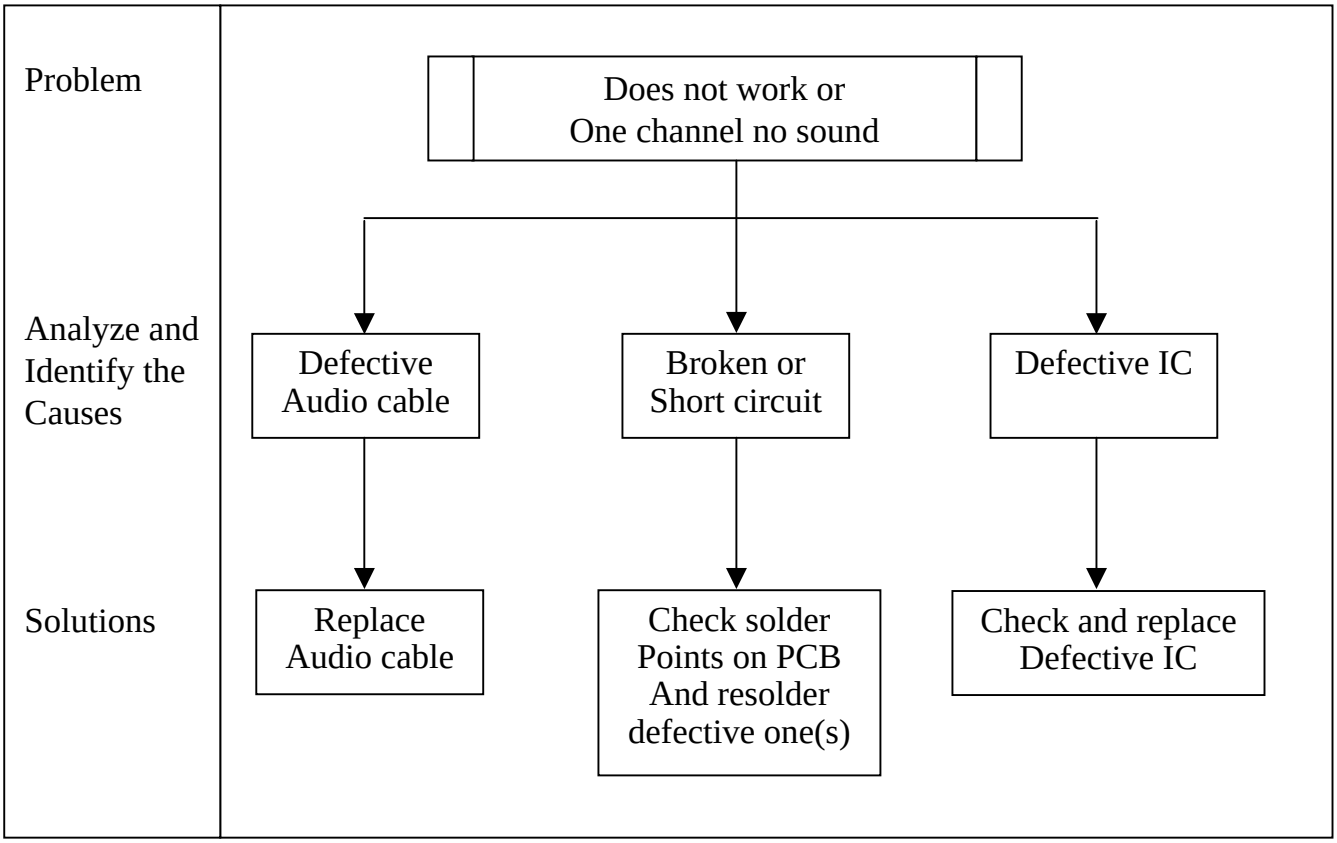
Please follow the numbered sequence marked within parenthesis given in individual Flow chart, in that this is the best-recommended sequence to rectify the problems.

Attention

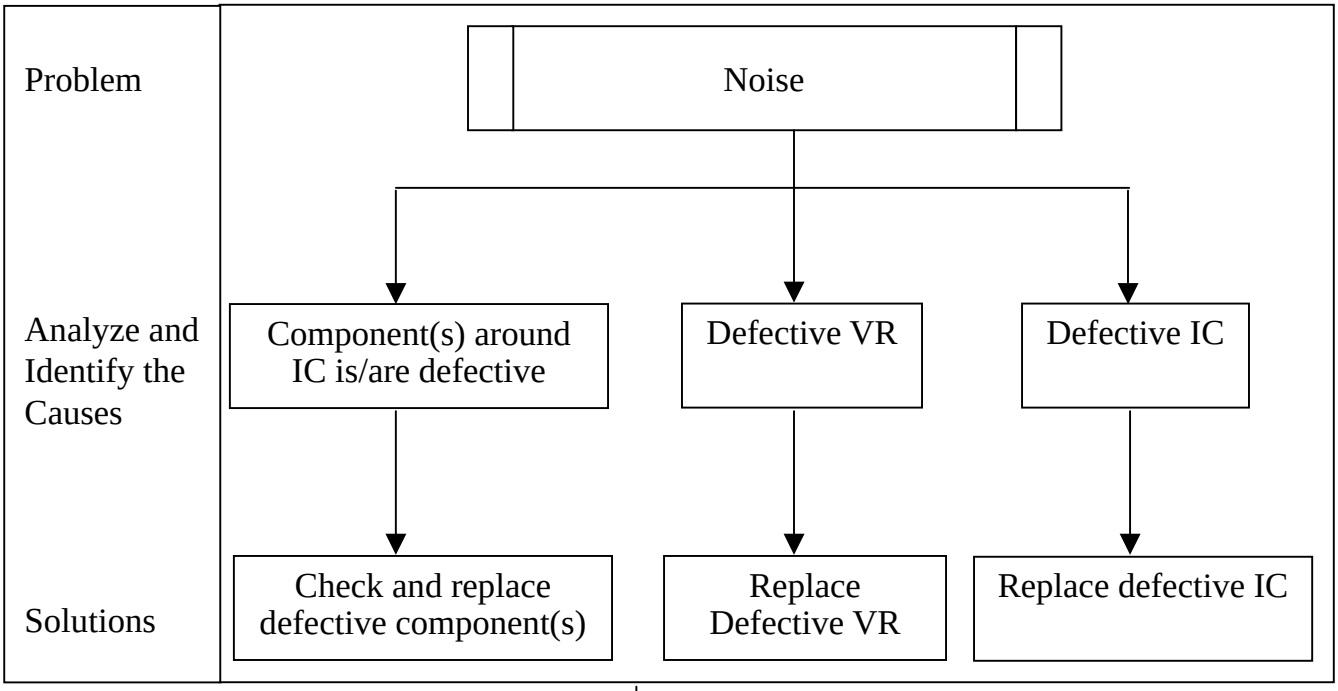
1.2.1 Power LED (indicator) unlighted



1.2.2 Does not work or one channel no sound



1.2.3 Noise



Chapter 2. Specifications

Satellite

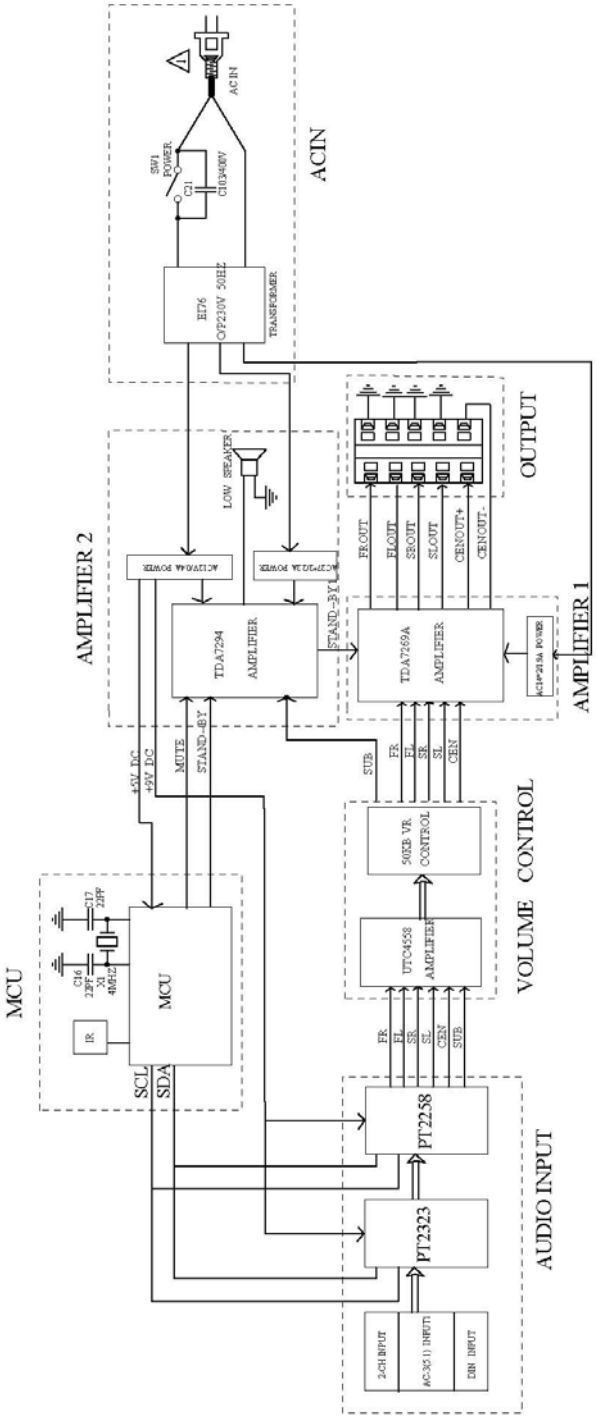
No.	DESCRIPTION	UNIT	NOMINAL					LIMIT
			CEN	FR	FL	SR	SL	
1.	RATED OUTPUT POWER @THD 10%	W	19	19	19	19	19	±5%
2	SENSITIVITY（1KHz）@RATED O/P POWER	mV	380	640	640	380	380	±10%
3	SENSITIVITY(1KHz)@1W O/P POWER	mV	76	130	130	76	76	±10%
4	MAX INPUT LEVEL@1% THD	mV	290	500	500	290	290	±10%
5	FREQUENCY RESPONSE(1KHz=0dB)							
	110Hz	dB	-0.3					±0.5
	1K	dB	0					±0.5
	135K	dB	-3					±0.5
6	S/N @RATED O/P POWER	dB	75					≥60
7	CHANNEL UNBALANCE @REF O/P POWER	dB	0.2	0.2	0.2	0.2	0.2	≤0.5
8	CHANNEL SEPARATION(ONE CHANNEL IN; OTHER CHANNEL INPUT SHORTING)	dB	55	55	55	55	55	≥40
9	HUM NOISE (VR MAX) (VOLUME MAX; INPUT SHORTING)	mV	2	2	2	2	2	≤3
10	HUM NOISE (VR MIN) (VOLUME MIN. INPUT SHORTING)	mV	0.1	0.1	0.1	0.1	0.1	≤1

Chapter 2. Specifications

Subwoofer

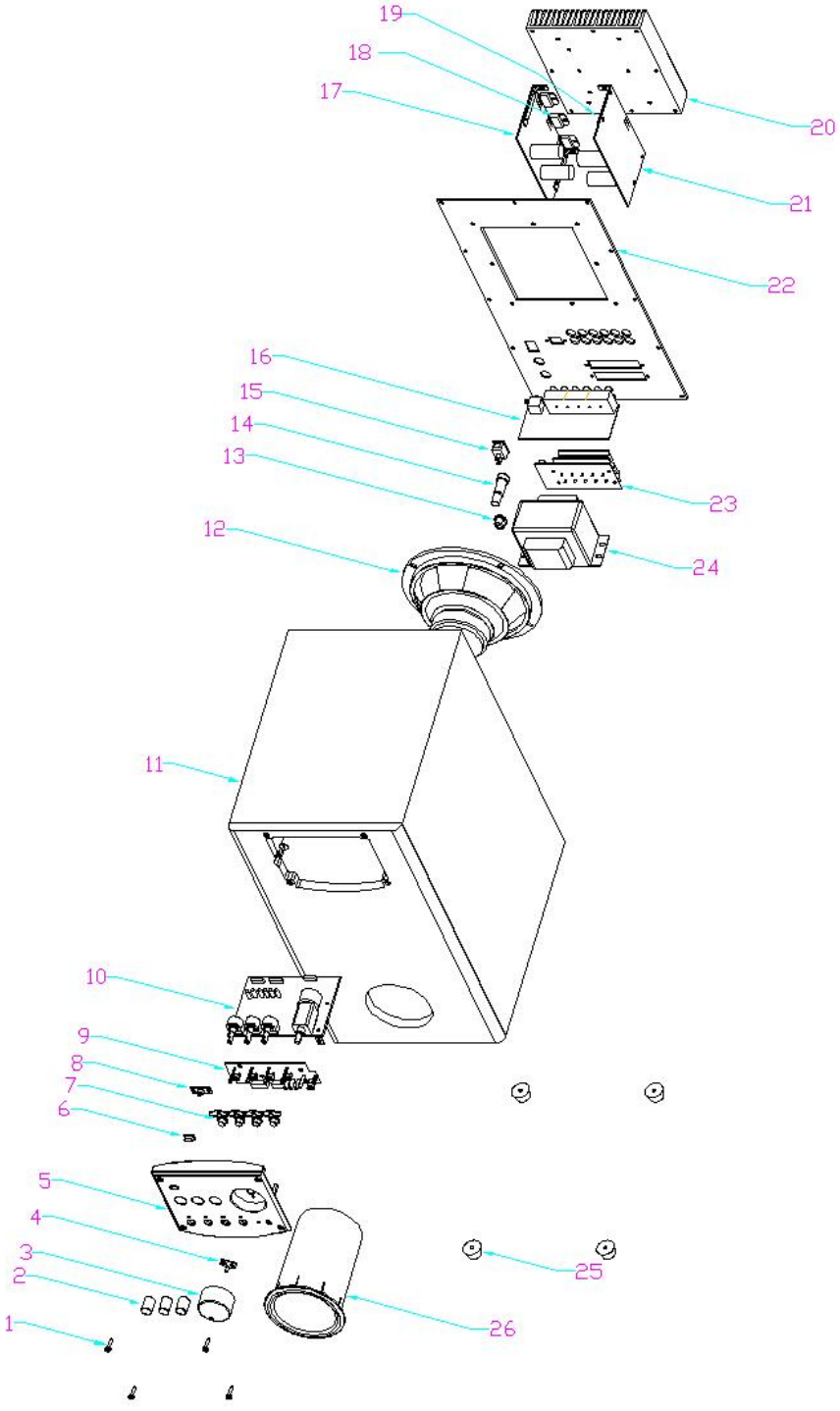
No.	DESCRIPTION		UNIT	NOMINAL	LIMIT
1.	RATED OUTPUT POWER @100Hz (10%THD)		W	75	±5
2	SENSITIVITY（100Hz）@RATED O/P POWER		mV	100	±10
3	SENSITIVITY(1KHz)@1W O/P POWER		mV	10	±5
4	MAX INPUT LEVEL @ 1% THD		mV	85	±8
5	DISTORTION @100Hz REF. O/P POWER		%	0.17	≤0.5
6	CROSSOVER FREQUENCY				
		LOW	Hz	0	±20
		HI	Hz	140	±20
7	S/N RATIO @100Hz RATED O/P POWER		dB	75	≥60
8	VR MIN NOISE		mV	0.5	≤3
9	VR MAX NOISE & HUM		mV	4	≤10

Chapter 3. Block Diagram



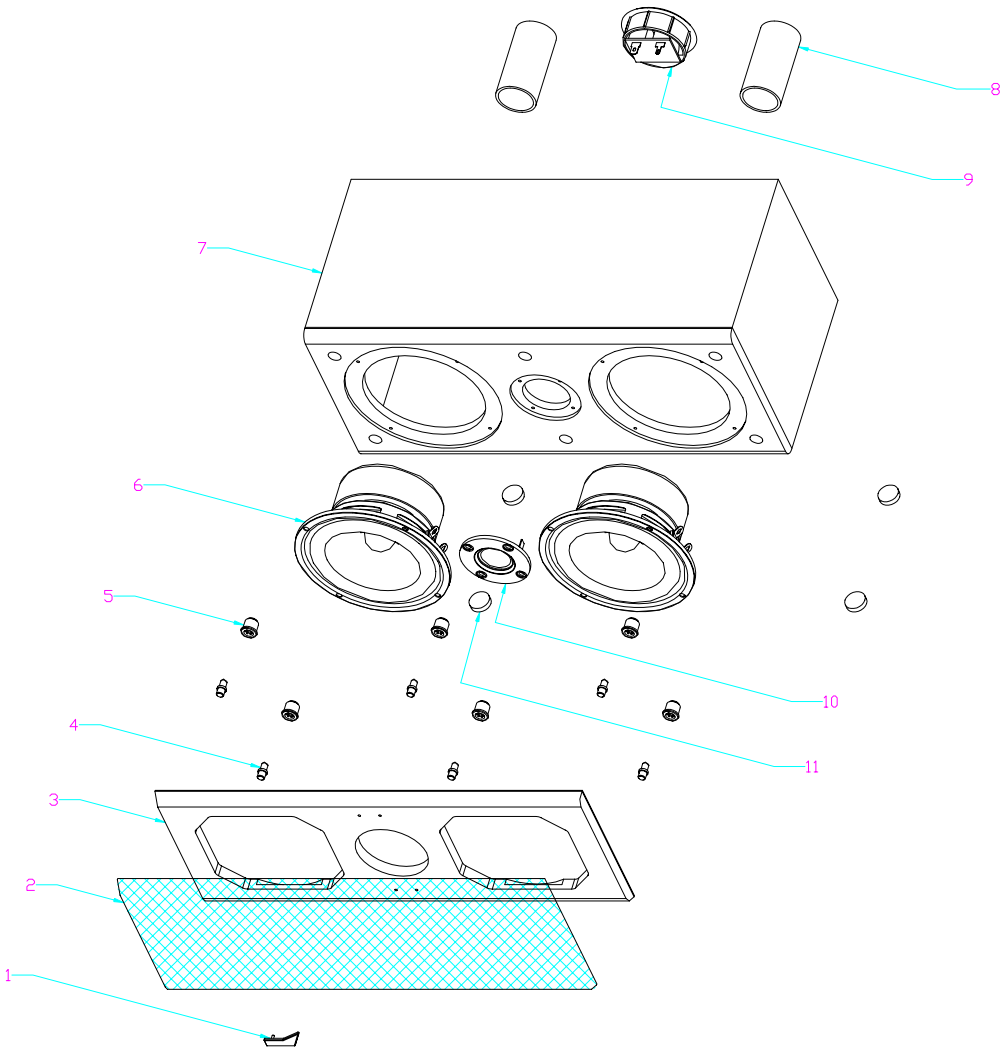
Chapter 4. Exploded View

Subwoofer



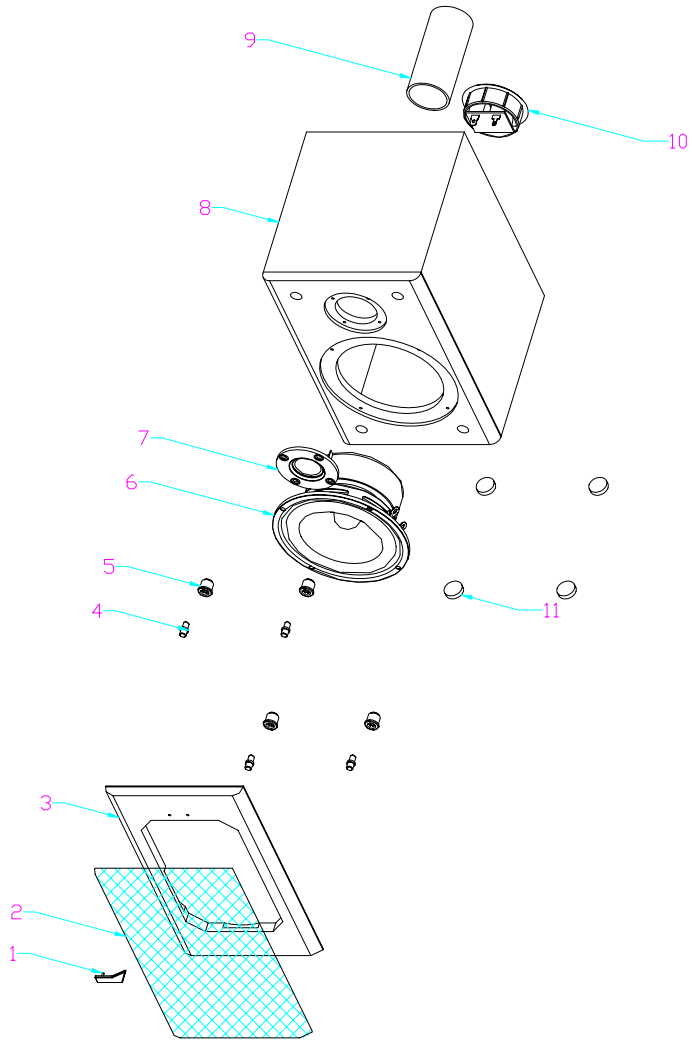
Chapter 4. Exploded View

Center



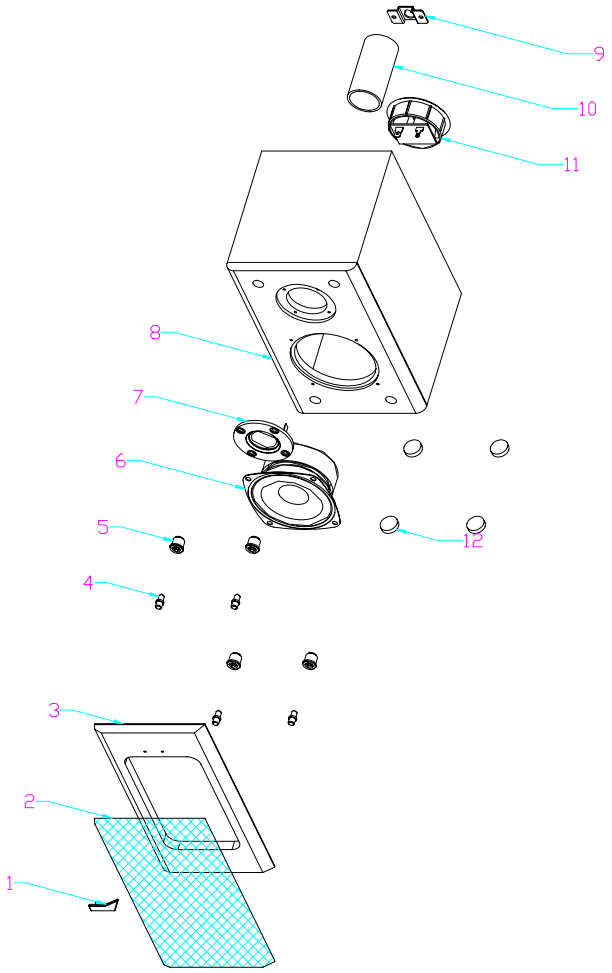
Chapter 4. Exploded View

Satellite（Front）



Chapter 4. Exploded View

Satellite（Rear）



Chapter 5. Part List

Subwoofer

Ref. No.	Description	RS Part No.	Part No.
1	Screw, HSAΦ3.5×16,Black		4102H35016A02G01
2	Knob, SW-HF5.1 5000A,Silver Color HIPS		0107HIPS81002G01
3	Knob, SW-HF5.1 5000A,Silver Color HIPS		0107HIPS81008G01
4	Flash PCB		180615094V001G01
5	Front panel, SW-HF5.1 5000A, Black Color ABS		01020ABS04064G01
6	Keystroke, SW-HF5.1 5000A, Silver Color HIPS		0107HIPS81001G02
7	Keystroke, SW-HF5.1 5000A, Silver Color HIPS		0107HIPS81003G01
8	STAND-BY		180215094V001G02
9	MCU, SW-HF5.1 5000A,		180215094V001G01
10	Control PCB, SW-HF5.1 5000A,		180315094V001G01
11	Wood-box(SUB), SW-HF5.1 5000A, 12T MDF		9401040014000G01
12	Speaker, 6.5" 8Ω 75W		084075086B212G01
13	Buckle, SW-HF5.1 5000A, Black PA		011600PA00003G01
14	Safety, SW-HF5.1 5000A, Black		0121OABS09000G01
15	Switch Power, SW-HF5.1 5000A, Black		2460250060001G01
16	Input Panel, SW-HF5.1 5000A		180415094V001G01
17	Function PCB Assembly		180115094V001G02
18	IC TDA7269A		211TDA7269ACHG01
19	IC TDA7294		2110TDA7294CHG01
20	Cooler, SW-HF5.1 5000A, Black AL		0405011001615G01
21	Function PCB Assembly		180115094V001G01
22	Rear Panel, SW-HF5.1 5000A,Black Color SPCC		0402031001755G01
23	Out Put, SW-HF5.1 5000A,		181015094V001G01
24	Transformer, EI7642 I/P:240V ,W-HF5.1 5000A		2225400030001G02
25	Rubber Foot, SW-HF5.1 5000A,		4311000016003G01
26	Duct, SW-HF5.1 5000A, Black Color HIPS		0106HIPS00112G01

Chapter 5. Part List

Center

Ref. No.	Description	RS Part No.	Part No.
1	Badge, SW-HF5.1 5000A, Black Color AL		0406031101005G01
2	Cloth, Black Color,		0701003801800G01
3	Cloth Frame, Black Color MDF		9110420180300G01
4	Metal Stud, SW-HF5.1 5000A, Black HIPS		01220HIPS0002G01
5	Grommet, SW-HF5.1 5000A, Black Color RUBBER		
6	Speaker, 4" 4Ω 15W		0810150404312G01
7	Wood-box, SW-HF5.1 5000A, MDF		9411040012200G01
8	Paper tube，Black Color PAPER		
9	Terminal, SW-HF5.1 5000A, Black Color HIPS		2032123016821G01
10	Speaker, 1" 8Ω 10W, Black Color		0820100801312G01
11	Foot, SW-HF5.1 5000A,One side tape glue, Black Color		4311015540004G01

Chapter 5. Part List

Satellite（Front）

Ref. No.	Description	RS Part No.	Part No.
1	Badge, SW-HF5.1 5000A, Black Color AL		0406031101005G01
2	Cloth, Black Color,		0701002601700G01
3	Cloth Frame, Black Color MDF		9110420180250G01
4	Metal Stud, SW-HF5.1 5000A, Black HIPS		01220HIPS0002G01
5	Grommet, SW-HF5.1 5000A, Black Color RUBBER		
6	Speaker, 4" 4Ω 15W		0810150804312G01
7	Speaker, 1" 8Ω 10W		0820100801312G01
8	Wood-box, SW-HF5.1 5000A, 9T MDF		9411040011800G01
9	Paper tube, Black Color, Paper		
10	Terminal, SW-HF5.1 5000A, Black Color HIPS		2032123016821G01
11	Foot, SW-HF5.1 5000A,One side tape glue, Black Color		4311015540004G01

Chapter 5. Part List

Satellite（Rear）

Ref. No.	Description	RS Part No.	Part No.
1	Badge, SW-HF5.1 5000A, Black Color AL		0406031101005G01
2	Cloth, Black Color,		0701001701600G01
3	Cloth Frame, Black Color 9T MDF		9110420180200G01
4	Metal Stud, SW-HF5.1 5000A, Black HIPS		01220HIPS0002G01
5	Grommet, SW-HF5.1 5000A, Black Color RUBBER		
6	Speaker, 3" 8Ω 15W		0810150803112G01
7	Speaker, 1" 8Ω 10W		0820100801312G01
8	Wood-box, SW-HF5.1 5000A, 9T MDF		9411040011600G01
9	Metal panel, SW-HF5.1 5000A, Black Color SPCC		0404010301004G01
10	Paper tube, Black Color, Paper		
11	Terminal, SW-HF5.1 5000A, Black Color HIPS		2032123016821G01
12	Rubber Foot, One side tape glue, Black Color		4311015540004G01

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.

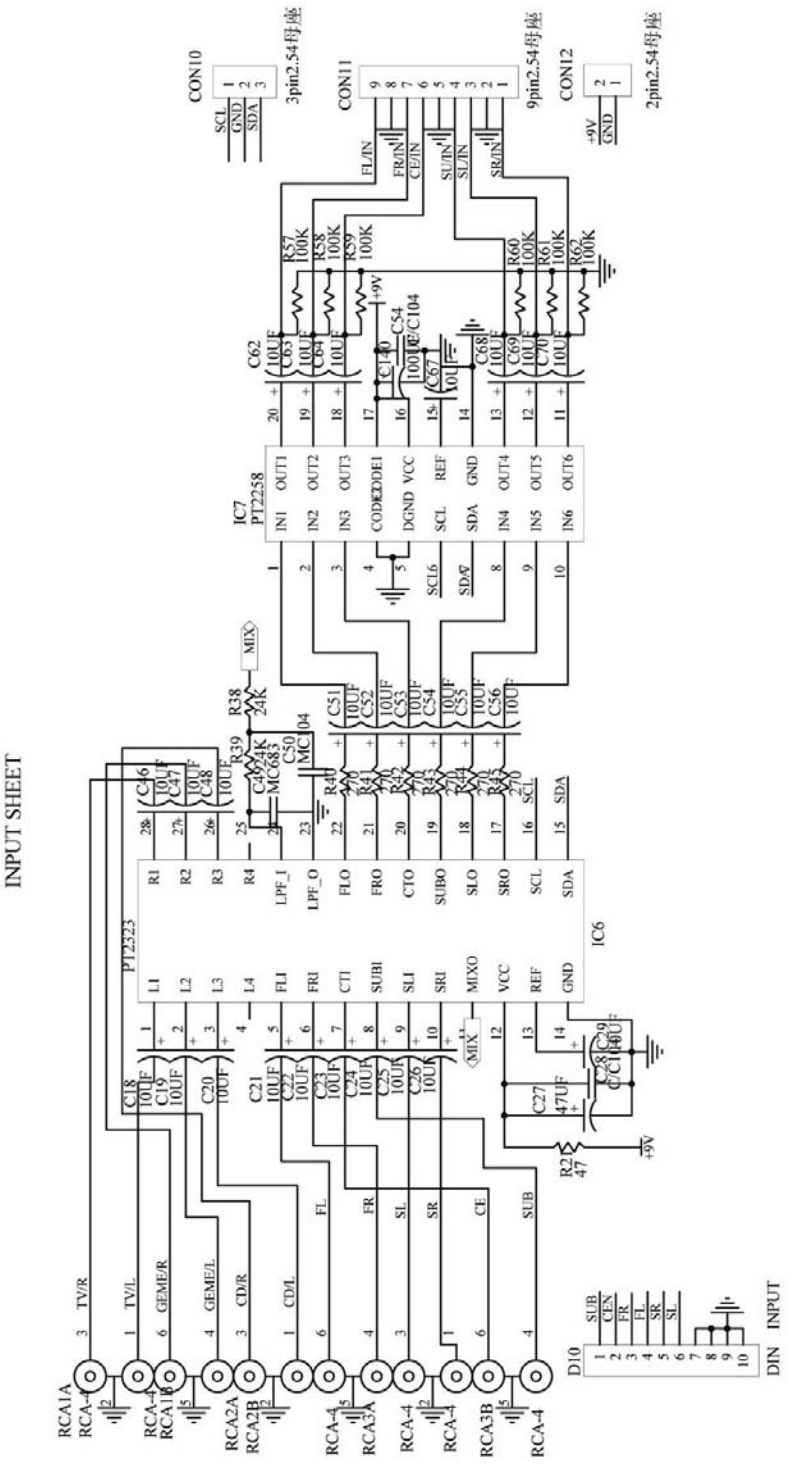
*Reliable external packing is also very important when sending the PCB assembly by post, in that it would avoid unnecessarily lost or damage.

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

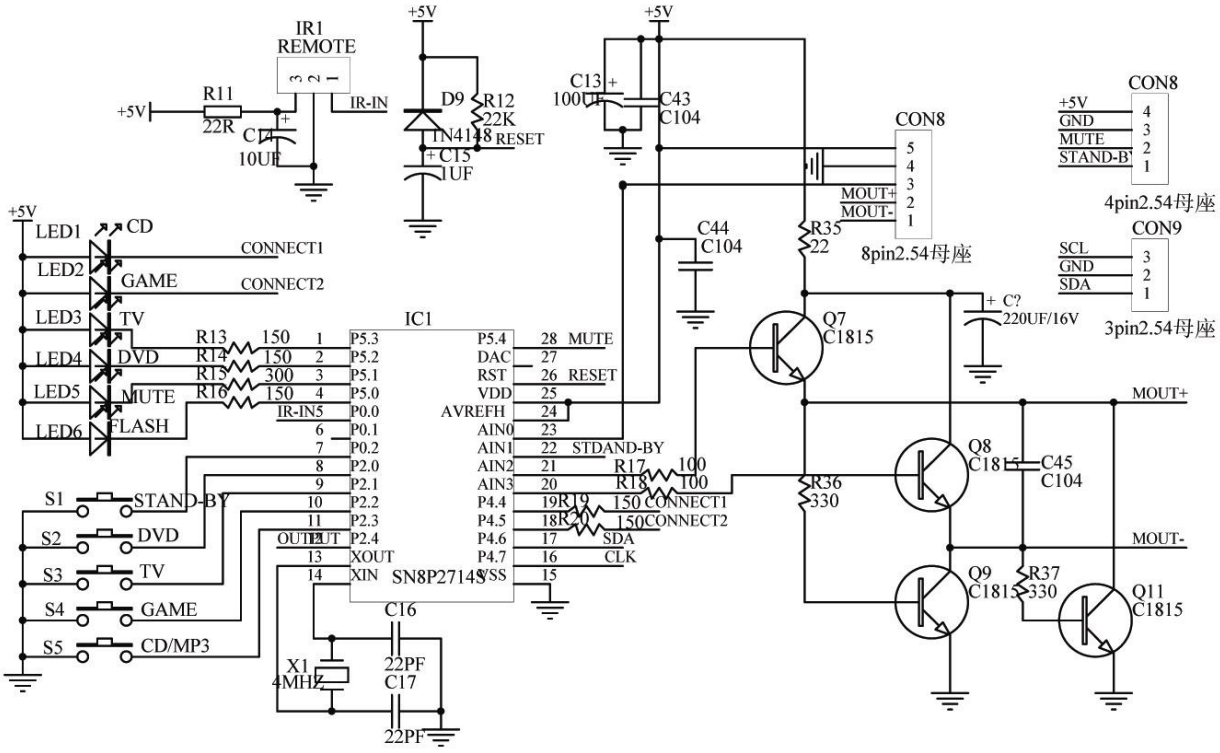
1



Chapter 7. Circuit schematic

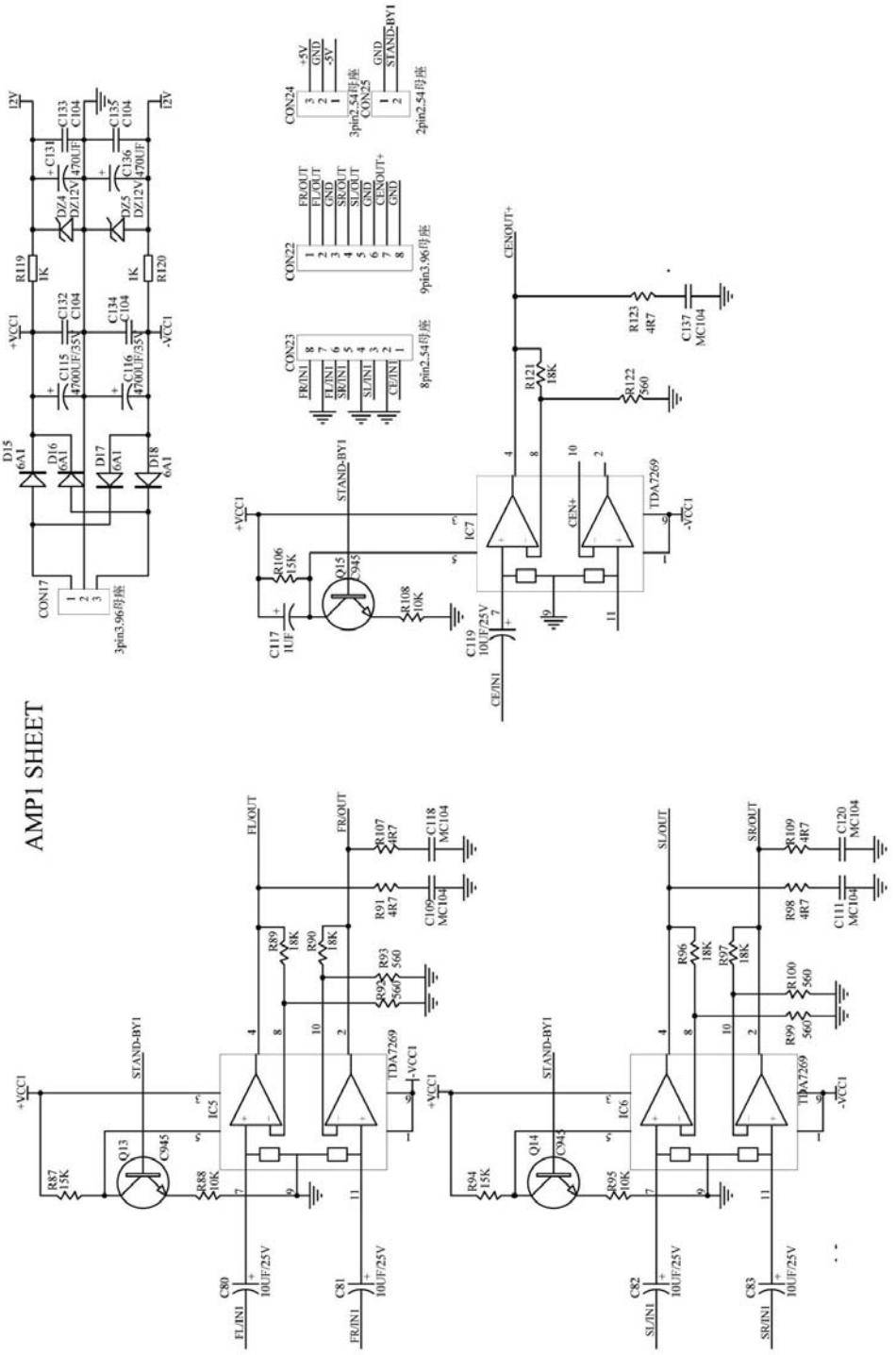
2

MCU SHEET



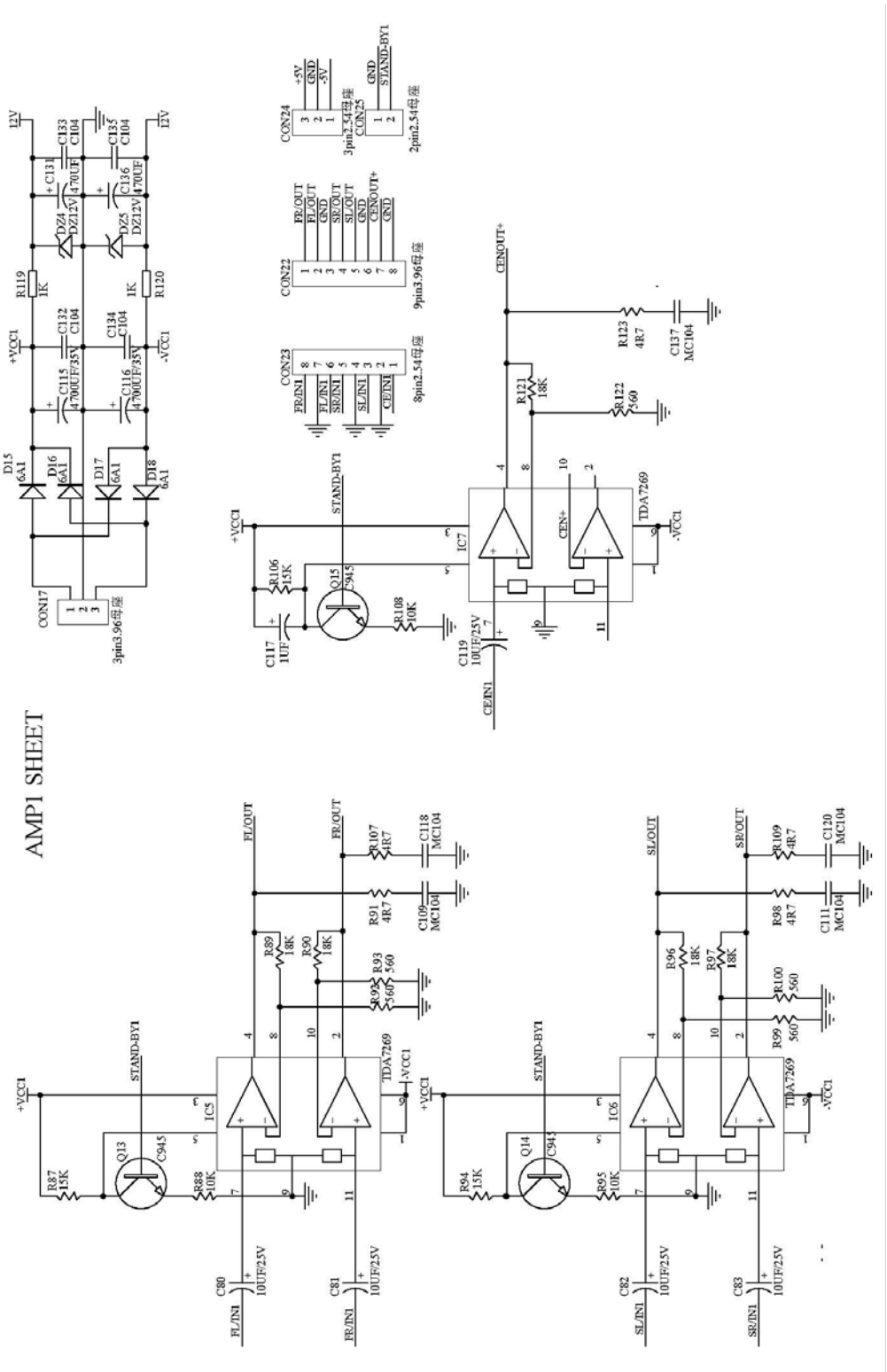
Chapter 7. Circuit schematic

3



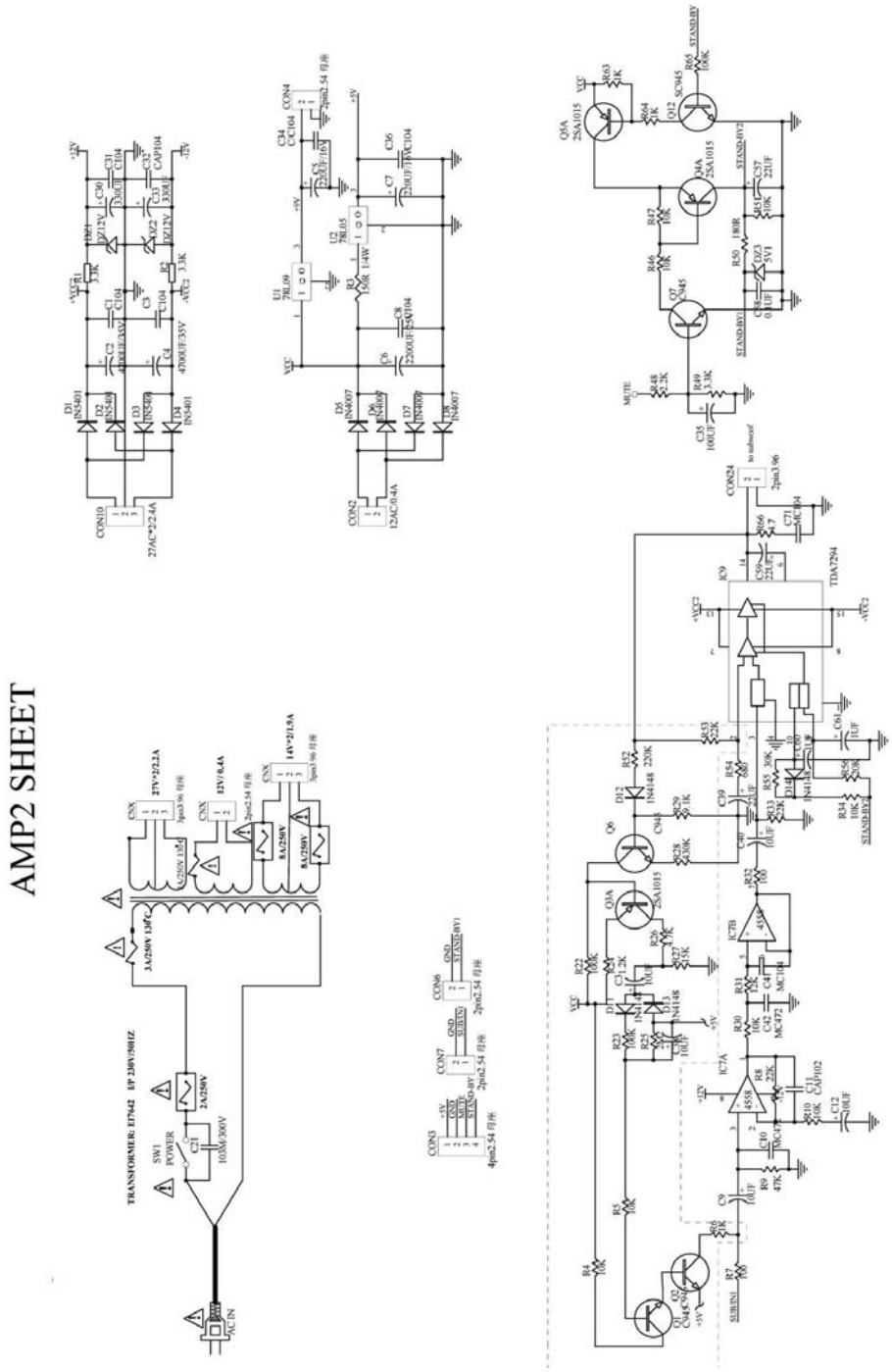
Chapter 7. Circuit schematic

4



Chapter 7. Circuit schematic

5



Chapter 7. Circuit schematic

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OUTPUT