

IBK

FSW-081R

FSW-121R

SERVICE MANUAL

CONTENT

CHAPTER 1(ACOUSTIC)

SPECIFICATIONS-----3

PRECAUTIONS-----3

GENERAL CHART-----4

BILL OF MATERIAL-----5

CHAPTER 2(ELECTRONIC)

TECHNICAL PARAMETER----- 7

DISASSEMBLY INSTRUCTION----- 8

PROCESS CHART----- 11

PRINCIPLE CHART-----12

PCB BOARD----- 16

GENERAL CHART----- 17

BILL OF MATERIAL-----18

Chapter 1

(Acoustic)

SPECIFICATIONS

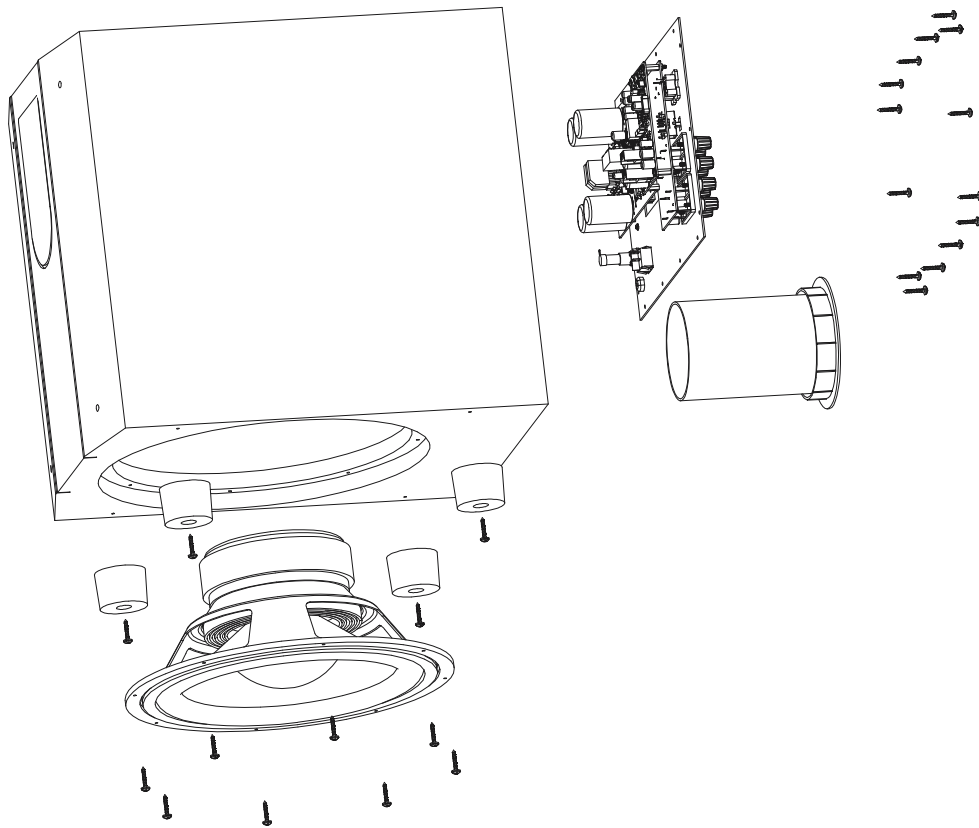
Model Number	FSW-081R	FSW-121R
Cabinet Type	Subwoofer	Subwoofer
Component	8" woofer	12" woofer
Speaker System	Bass Reflex	Bass Reflex
Speaker Terminals	Binding Post	Binding Post
Dimensions (HxWxD)mm	350x322x420	380x360x420

PRECAUTIONS

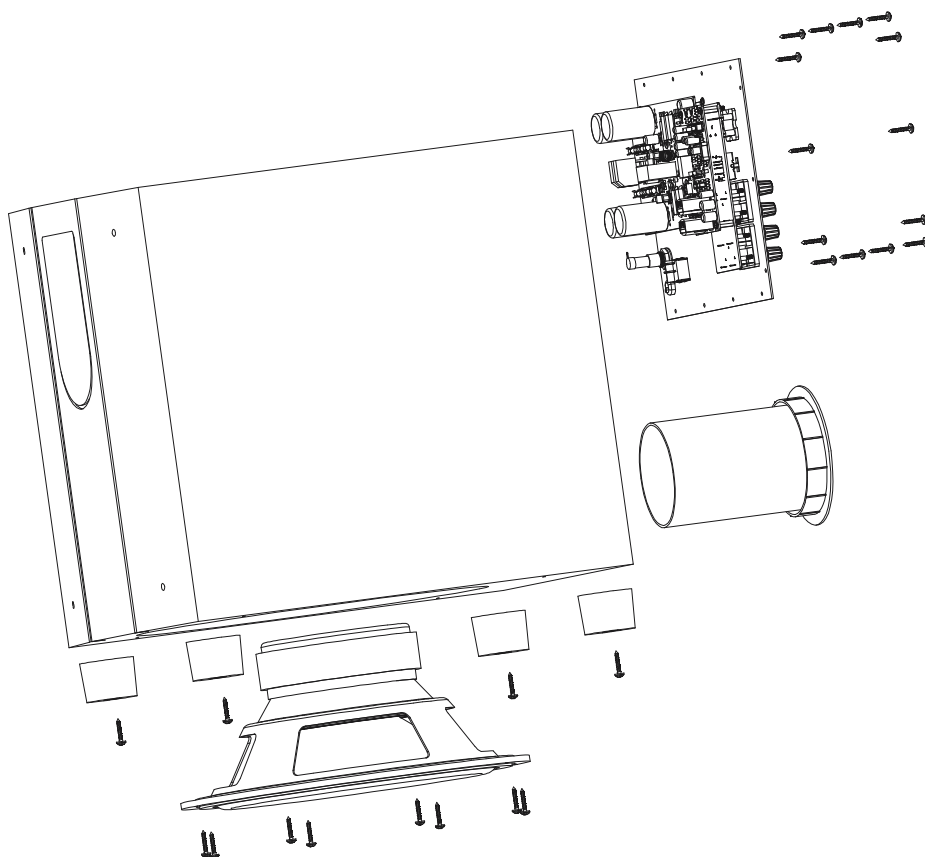
There are wires connected speaker with amplifier panel, when disassembling speaker, remember to unplug the connecting terminals.
when disassembling amplifier panel, please refer to Chapter 2(Electronic).

GENERAL CHART

FSW-081R



FSA-121R



Bill of Material(This bill is only for servicing use.)

Model: FSW-081R

Unit: 1pc

no.	code	description	unit
1	450045	foot S04C DJ-282 plastic black	PCS
4	B60088	power amplifier PCB FSW-081R BBK (silk print BP-170)	PCS
5	W0804-0350-6	woofer 8" HSP-865 4 Ω	PCS

remark:cabinet drawing is as same as FSW-081R FD

Model: FSW-121R

Unit: 1pc

item	code	description	unit
10	450045	feet S04C DJ-282 plastic black	PCS
36	B60133	amplifier PCB FSW-121R BBK BP-227	PCS
37	W1204-0490-2	woofer unit 12" HSP-1227 4 Ω	PCS

remark:: the same parameters and acoustic performance with FSW-121R FD

Chapter 2

(Electronic)

TECHNICAL PARAMETER

Model No.	FSW-081R	FSW-121R
Type	Active Servo Processing Subwoofer System	
Speaker unit	8" woofer	12" woofer
Amplifier output	100W / 4Ω, 100Hz / THP=0.2%	150W / 4Ω, 100Hz / THP=0.2%
Total Harmonic Distortion	≤0.5%	≤0.5%
S/N Ratio	≥ 80dB	≥ 80dB
Low Cut Frequency band	80/100/120/140Hz(+1/-3dB)	
Input Sensitivity	260mV(Line input)	260mV(Line input)
Phase		
Delay time to off	15 minutes	15 minutes
Power Consumption	120W	180W
Input Voltage	AC220V 50Hz	

DISASSEMBLY INSTRUCTION

Please study the circuitry position well before any disassembly to ensure all wires locate as original.

Open the cabinet:

- Screw the bolt A (fig. 1);
- Take off the terminal B (fig. 2);
- Take off the terminal of the loudspeaker;
- Take down the back panel.

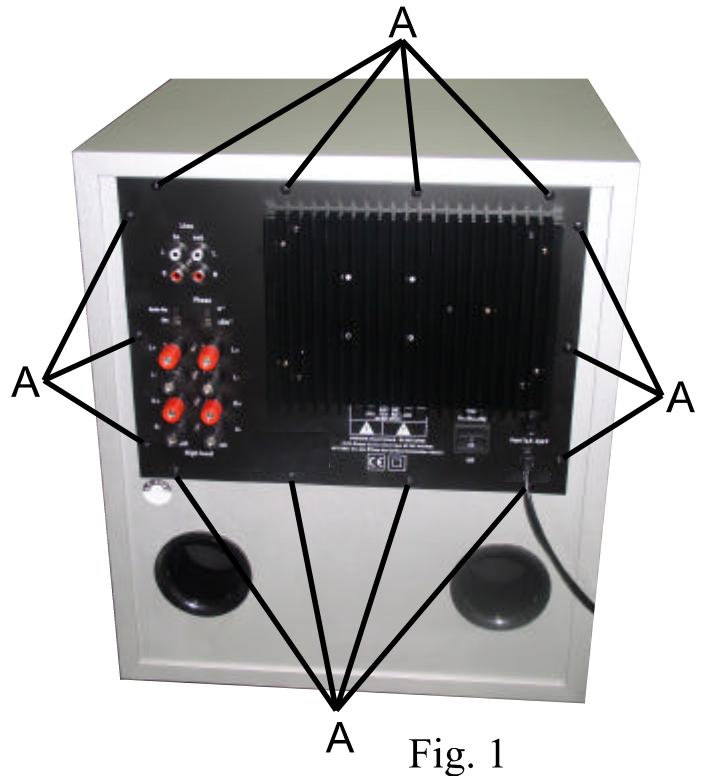


Fig. 1

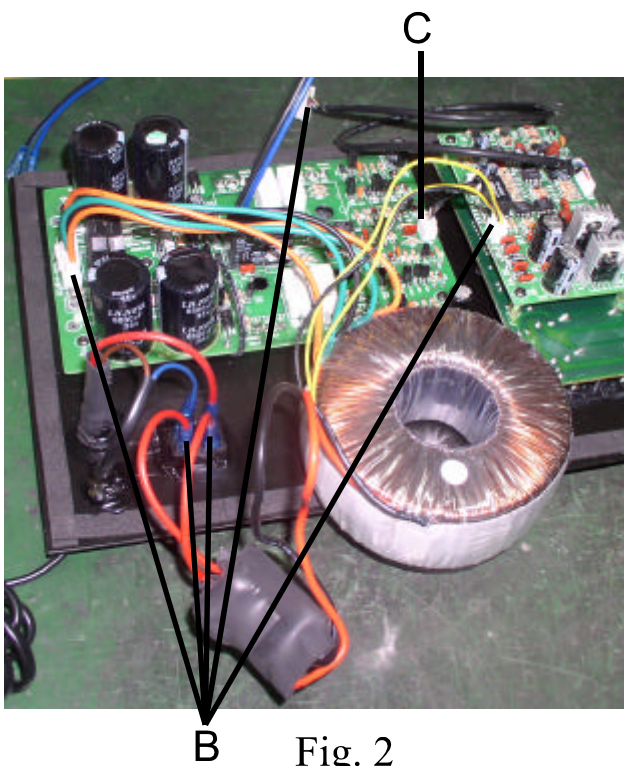


Fig. 2

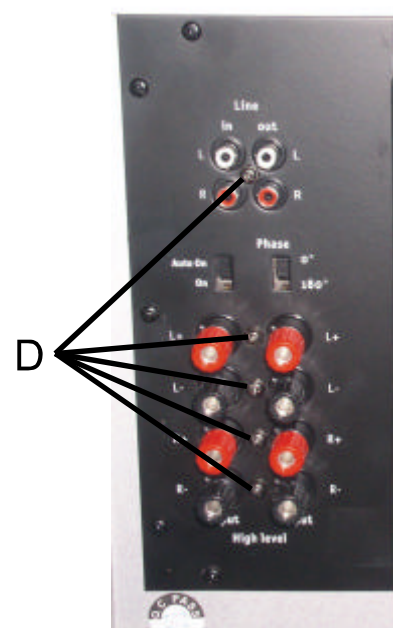


Fig. 3

Take down the input/output panel:

- Screw off the bolt D (fig. 3);
- Take off the terminal C (fig. 2);
- Take off the input/output panel.

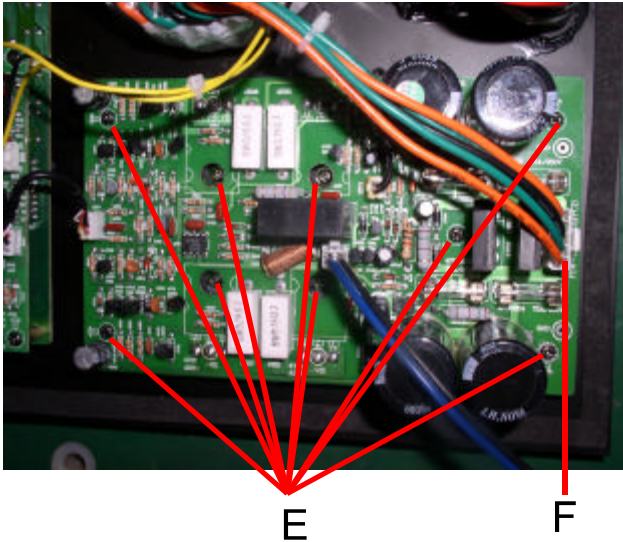


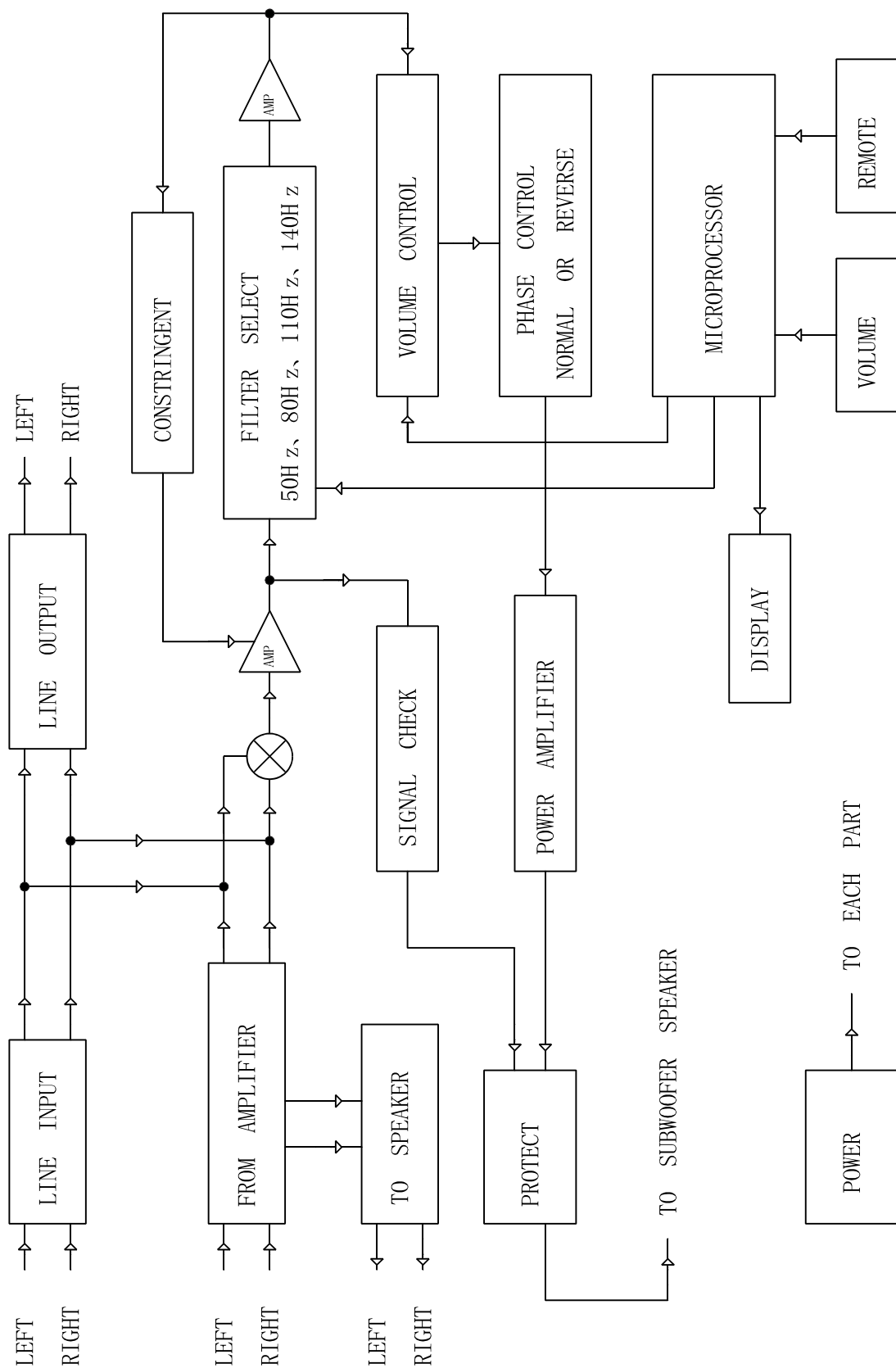
Fig. 4

Take down the amplifier panel:

- Screw off the bolt E (fig. 4);
- Take off the terminal F (fig. 4);
- Take down the amplifier panel.

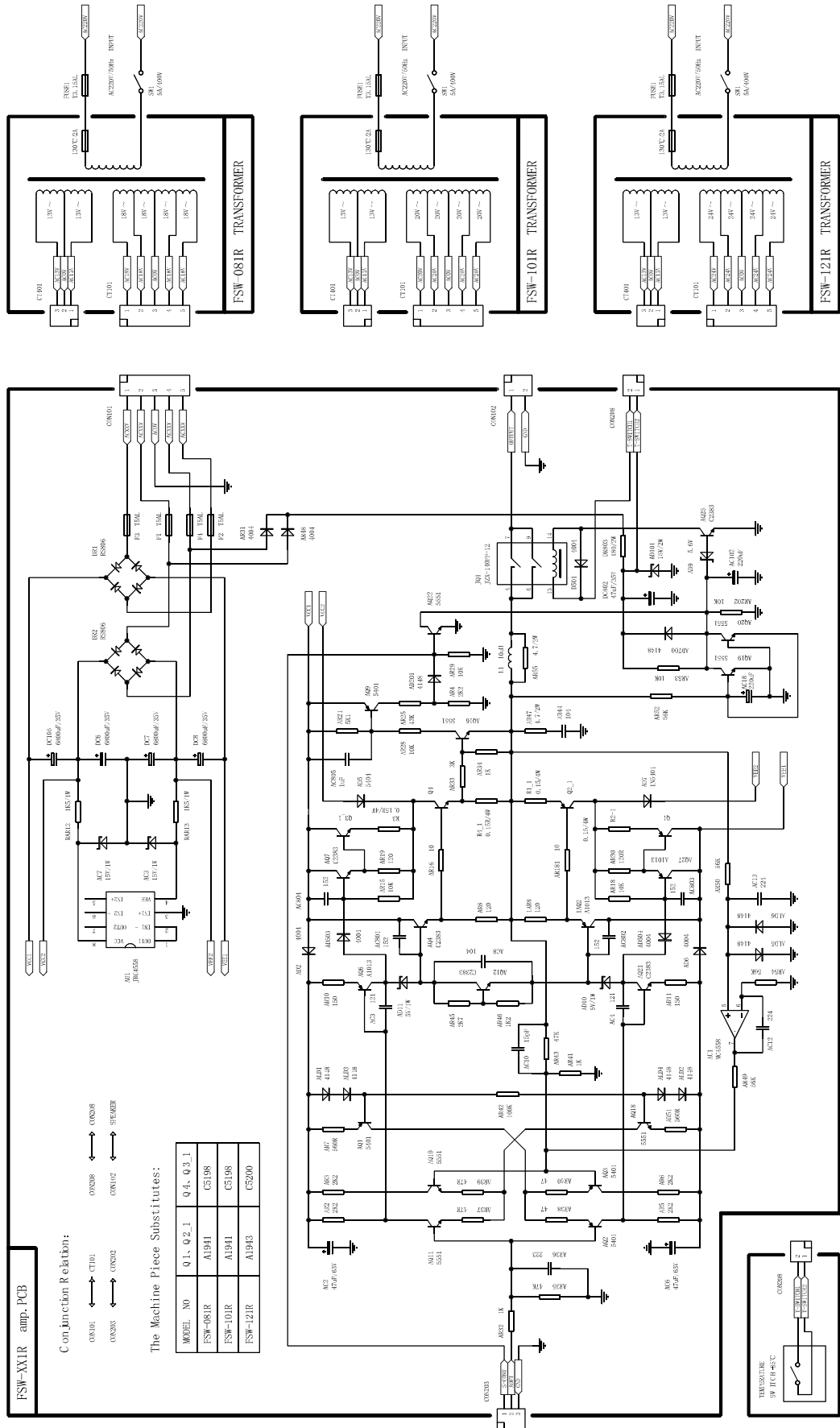
FSW-XX1R BLOCK DIAGRAM

PROCESS CHART

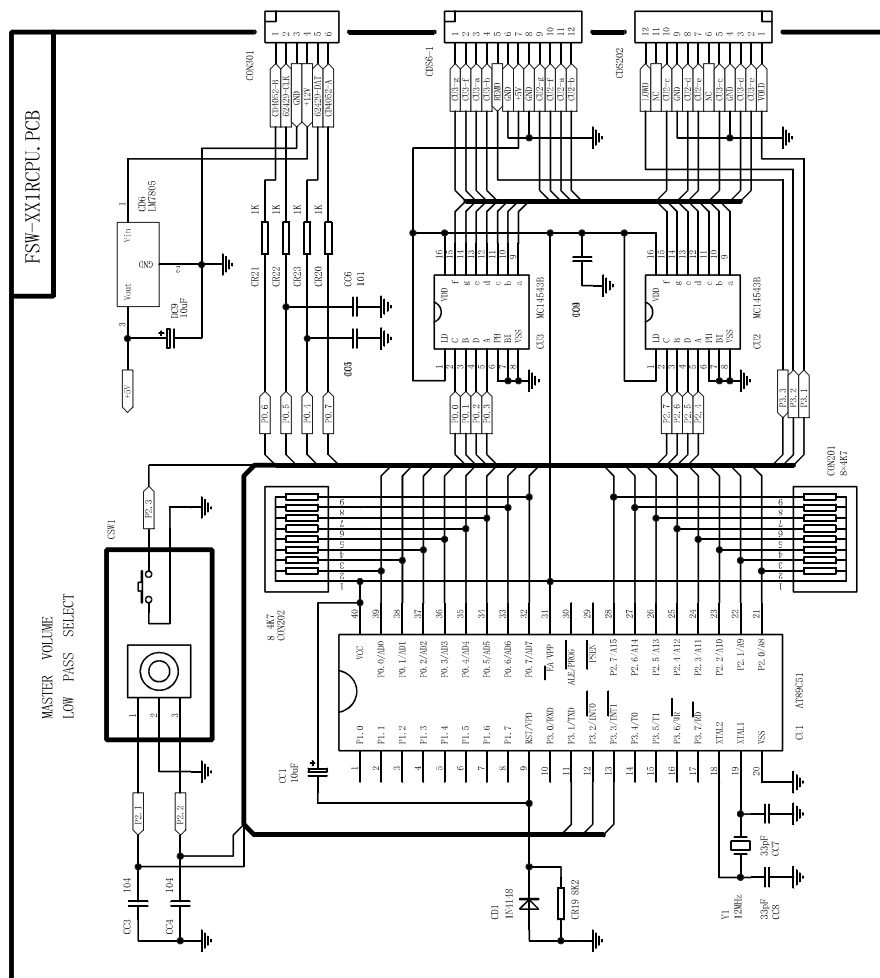


PRINCIPLE CHART

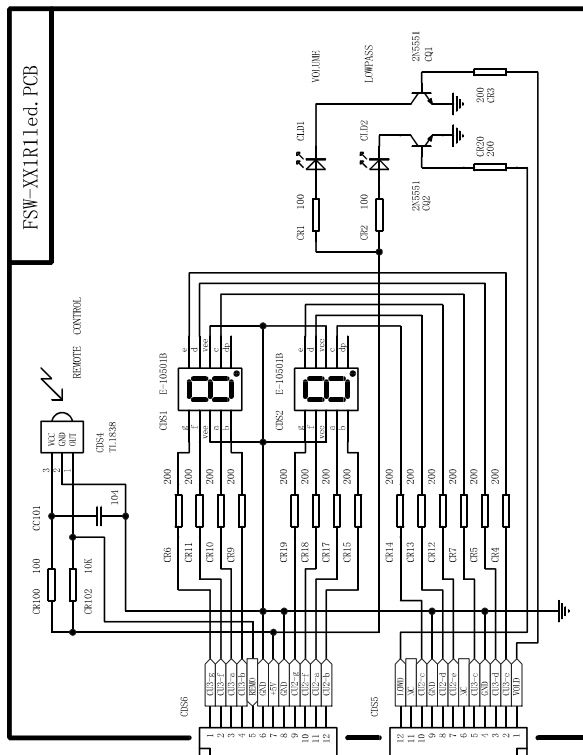
FSW-XX1R Circuit Diagram



FSW-XX1R Circuit Diagram

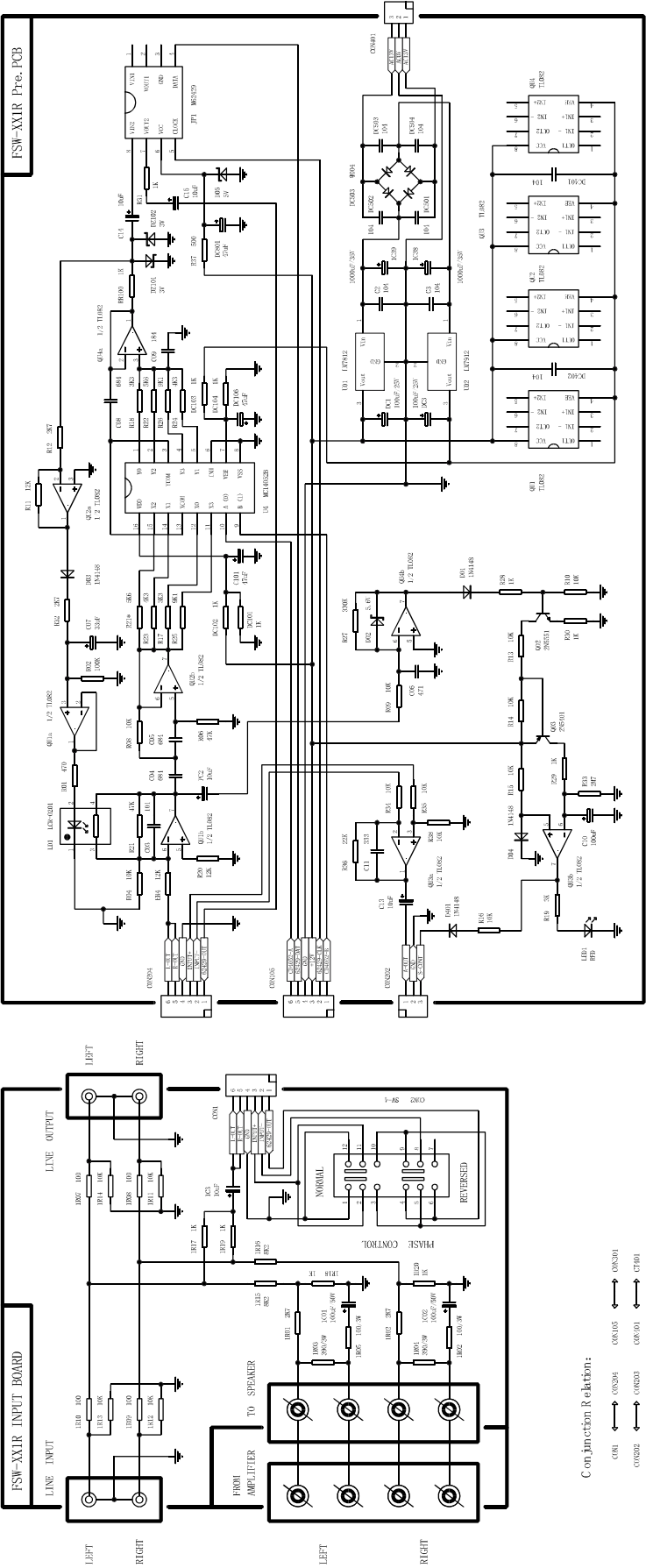


PRINCIPLE CHART



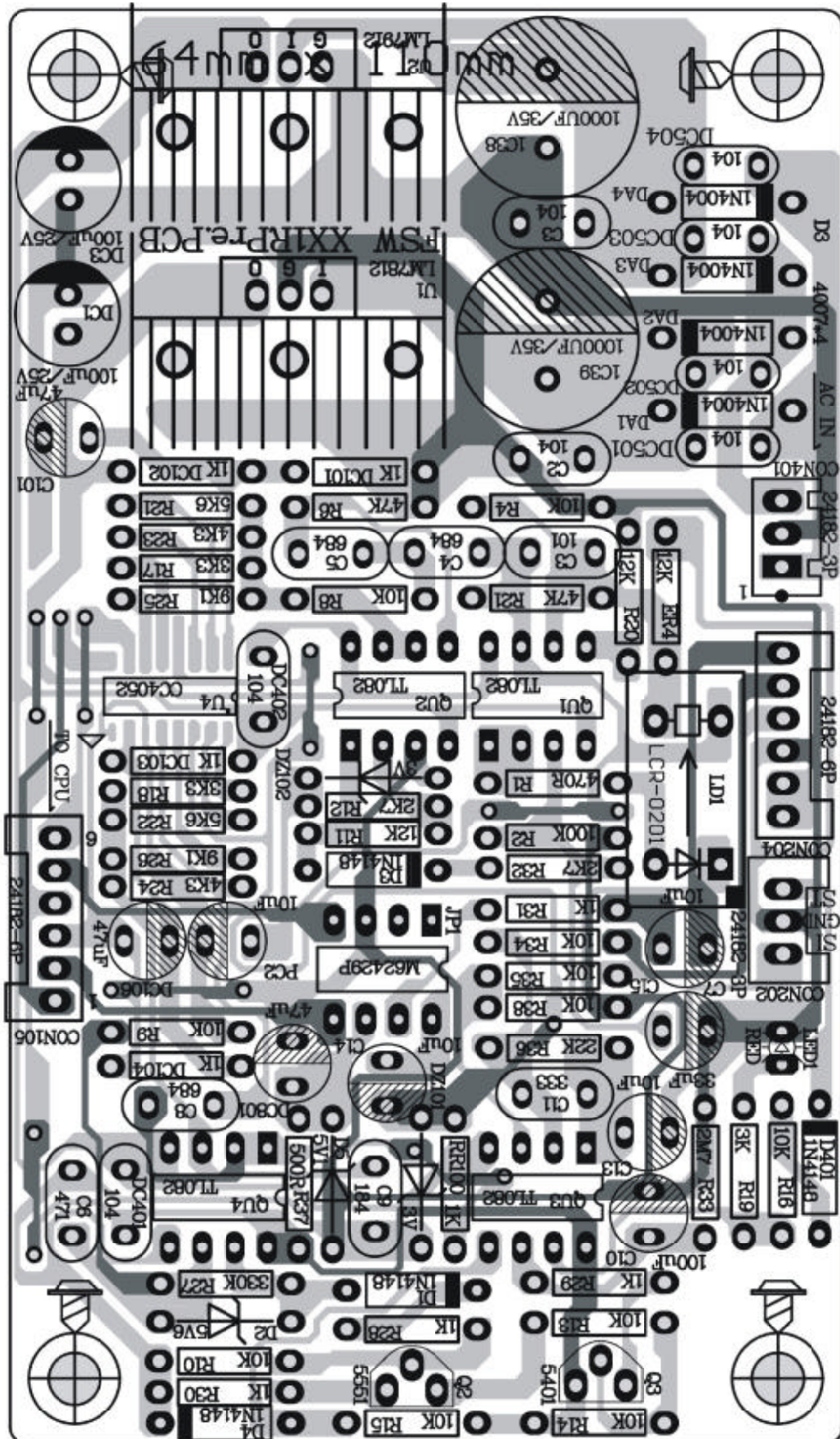
PRINCIPLE CHART

FSW-XX1R Circuit Diagram



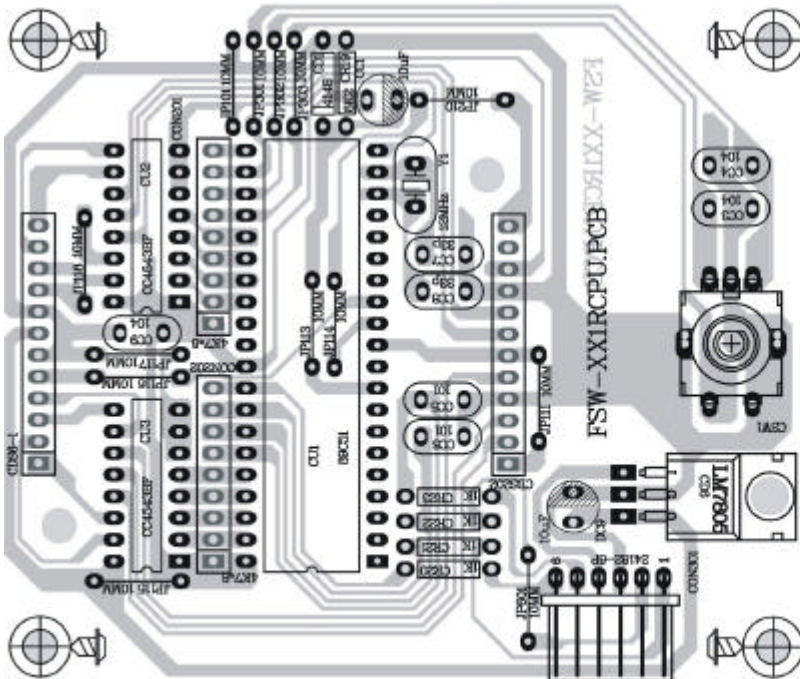
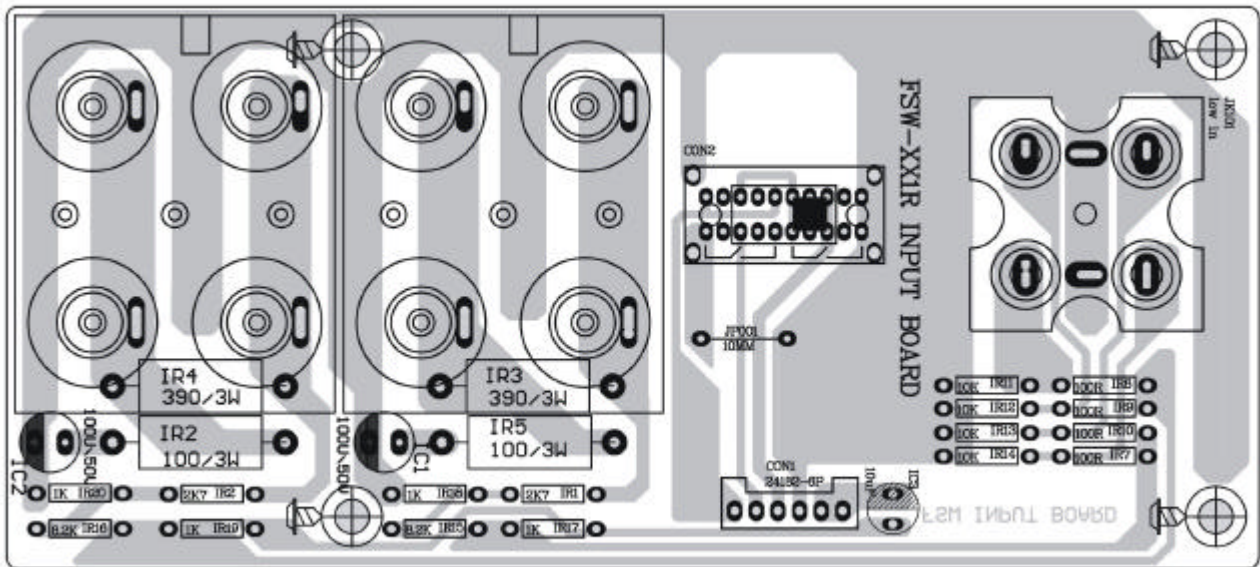
PCB BOARD CHART

FSW-XX1R-PRE.PCB

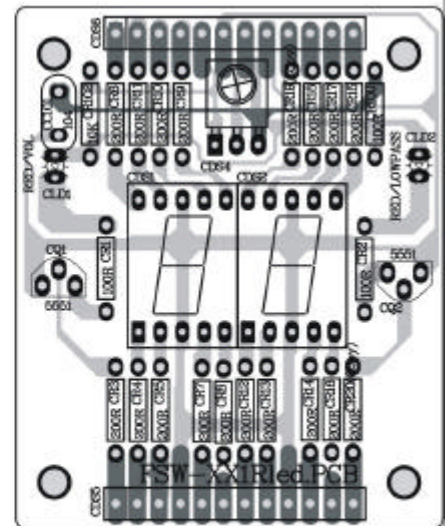


PCB BOARD CHART

FSW-XX1R-INPUT.PCB



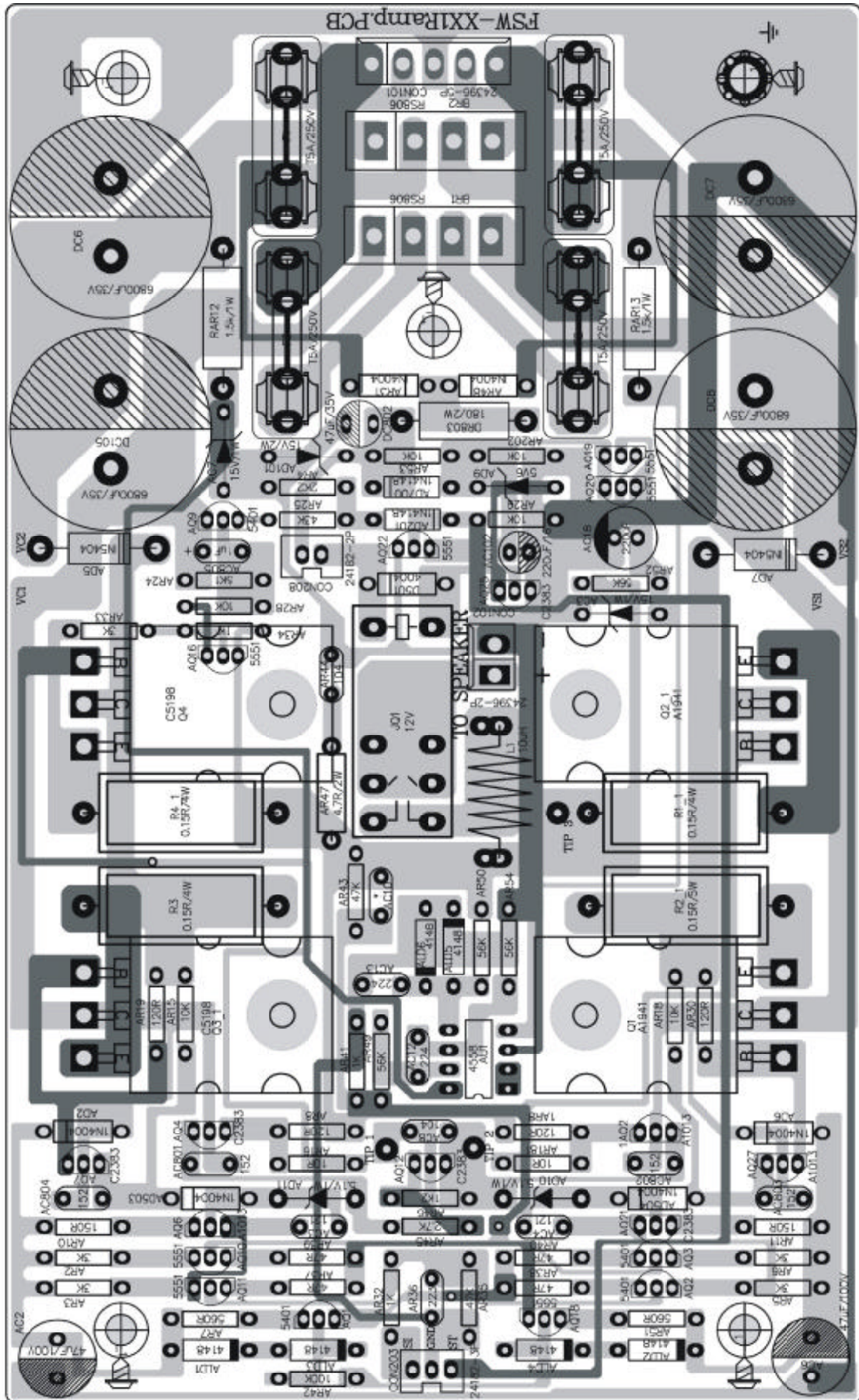
FSW-XX1R-CPU.PCB



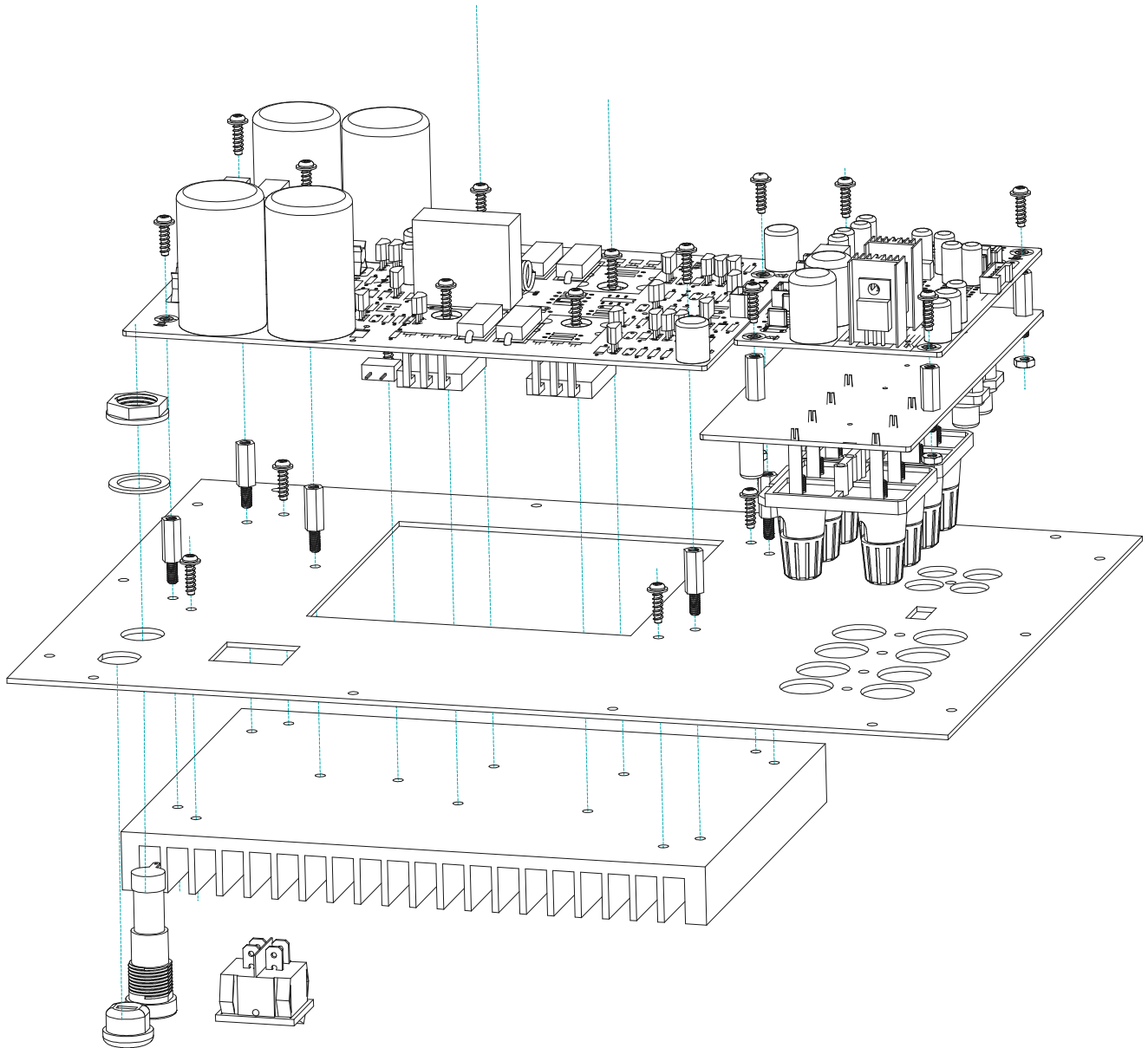
FSW-XX1R-LED.PCB

PCB BOARD CHART

FSW-XX1R-AMP.PCB



GENERAL CHART



Bill of Material

product model :FSW-081R amplifier board			
sort	parts code	parts name model and specification	usage per machine
amplifier board B60133	0300331	capacitor electrolysis 50V 6800uF 20%Dia25x45 105 degree	4
	05139	IC M62429P DIP	1
	05169	IC KA7805	1
	05177	IC KA7812	1
	05191	IC KA7912	1
	06042	diode digital number 10562A	2
	07041	audion 2SA1941-0	2
	07091	audion 2SC5198-0	2
	08014	crystal shake HC/49S 12.00MHz 30ppm 20pF	1
	090013	coding switch ED1112S-20-20kC L=20mm rachis	1
	090154	temperature switch ordinary close TO-220	1
	090175	lean press power switch KCD5-102 6A/250V	1
	10016	relay JZX-140FF 012-2HS 12VDC	1
	11571-1	transformer 120W FSW-081R,BT,BBK,220,1 CE	1
	12015	incept head FPS-6038T1 photoelectricity	1
	13045	fuse 250V T5A Dia5x20 VDE/UL/3C	4
	13072	fuse 250V T3.15A Dia5x20 VDE/UL/3C	
		amplifier subassembly and other materials	

product model :FSW-121R amplifier board			
sort	parts code	parts name model and specification	usage per machine
amplifier board B60133	0300331	capacitor electrolysis 50V 6800uF 20%Dia25x45 105 degree	4
	05139	IC M62429P DIP	1
	05169	IC KA7805	1
	05177	IC KA7812	1
	05191	IC KA7912	1
	06042	diode digital number 10562A	2
	07041	audion 2SA1941-0	2
	07091	audion 2SC5198-0	2
	08014	crystal shake HC/49S 12.00MHz 30ppm 20pF	1
	090013	coding switch ED1112S-20-20kC L=20mm rachis	1
	090154	temperature switch ordinary close TO-220	1
	090175	lean press power switch KCD5-102 6A/250V	1
	10016	relay JZX-140FF 012-2HS 12VDC	1
	11571-1	transformer 120W FSW-121R,BT,BBK,220,1 CE	1
	12015	incept head FPS-6038T1 photoelectricity	1
	13045	fuse 250V T5A Dia5x20 VDE/UL/3C	4
	13072	fuse 250V T3.15A Dia5x20 VDE/UL/3C	
		amplifier subassembly and other materials	

IBBK