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SERVICE MANUAL

PUMP it up TX

2011 FIESTA EX Ver 2.0

ISSUE DATE:Mar.11, 2011

STOP
IMPORTANT

- Please read the manual carefully and keep it in mind before using this machine.
- Put this manual within touch of your reference in anytime.

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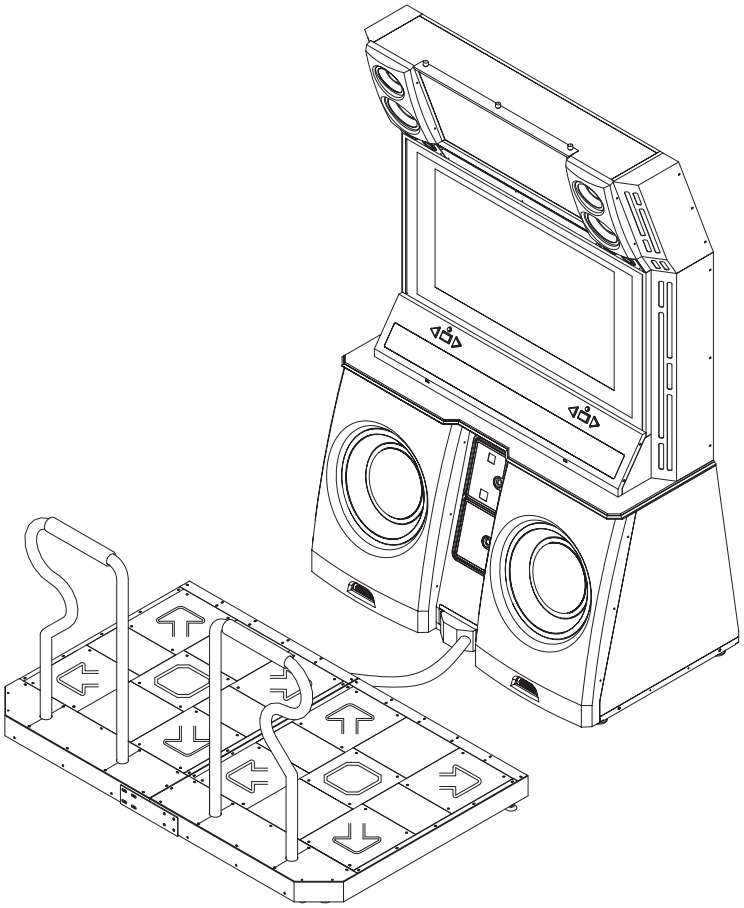
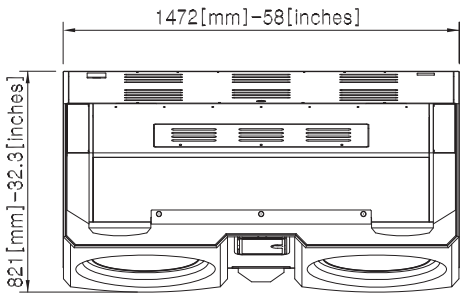
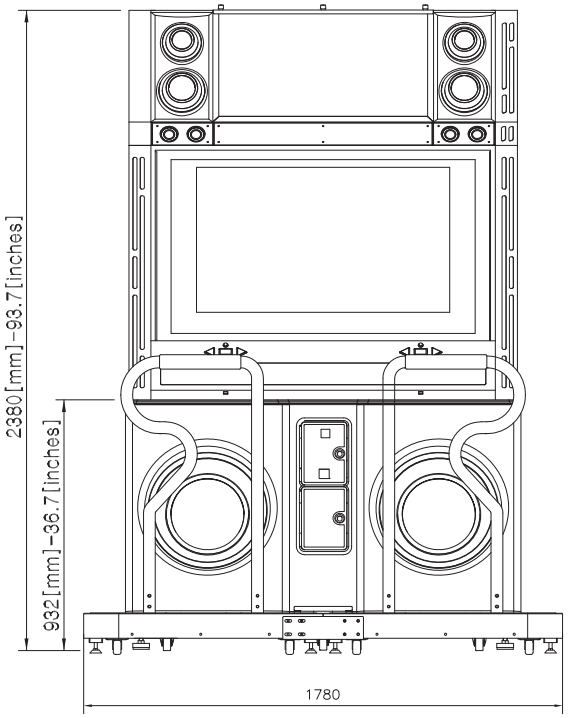
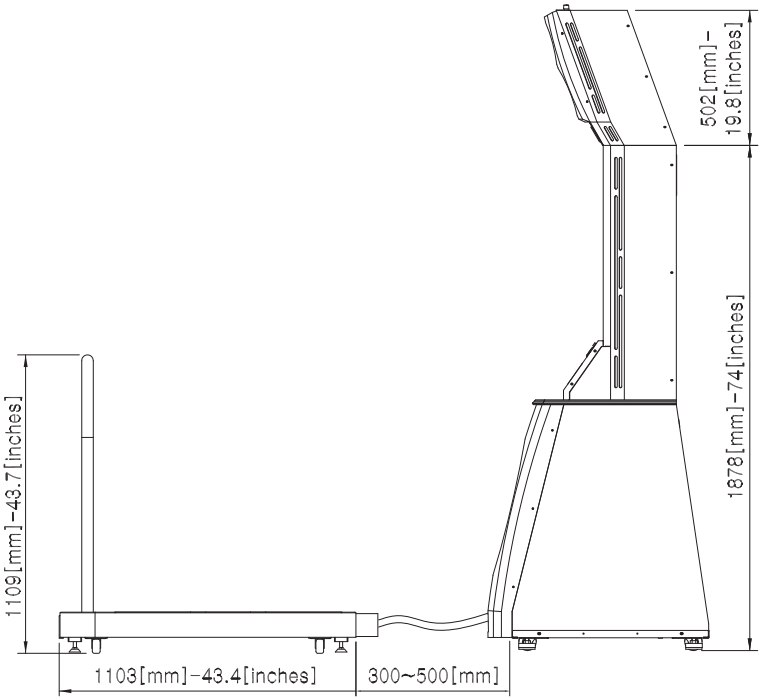
1. SPECIFICATION AND DIMENSION

1-1. DIMENSION





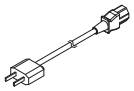




1-2. SPECIFICATION

DIMENSIONS (W x D x H)	BODY	1472 x 821 x 2380 (mm)	
	STEP	1780 x 1103 x 93 (mm)	
WEIGHT (kg)	BODY	350 kg	
	STEP	135 kg	
SCREEN SIZE		PDP 52"	
POWER RATED VOLTAGE RANGE		AC 110V / AC 220V	
POWER RATED FREQUENCY RANGE		60 Hz ~ 50 Hz	
CONSUMPTION		**110V**	**220V**
TOTAL		1200 W	1200 W
AMP		500 W	500 W
MAIN BOARD		300 W	300 W
SMPS		200 W	200 W
PDP		200 W	200 W

COMPOENTS

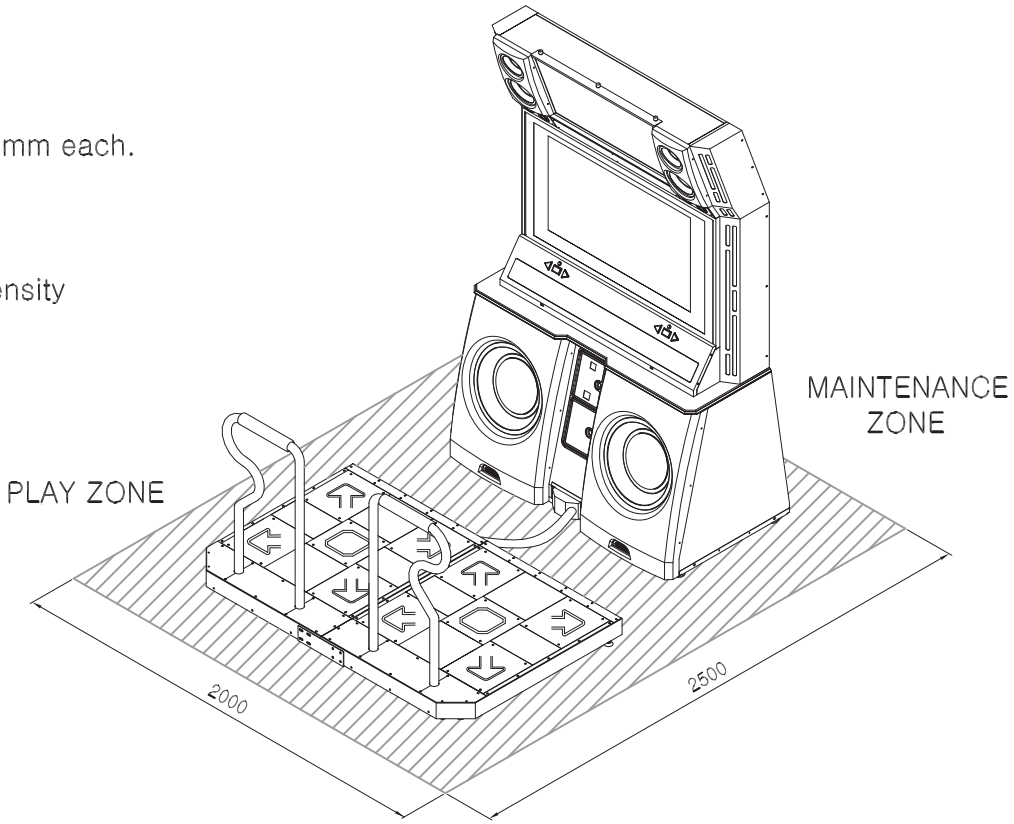
NO.	PART NAME	SPEC.	QTY
1	CASH BOX KEY	6001	2
2	FRONT DOOR KEY	7001	2
3	AC POWER CORD	110V or 220V 	1
4	WIRING	-	1
5	CONNECTOR BRACKET-[CABINET]	-	1
6	CONNECTOR BRACKET-[STEP]	-	1
7	JOINT BRACKET	-	2
8	STEP STICKER	-	1
9	RENCH	5mm, 6mm, 8mm	One apiece
10	RENCH BOLT	M8x15L	18
11	RENCH BOLT	M10x16L	20
12	BOLT	M4x25	8
13	WASHER	M10, M8	20,18
14	SPRING WASHER	M10	20
15	PDP REMOTE CONTROL	-	1
16	PDP MENUAL	-	1
17	PRODUCT MANUAL	-	1

2. INSTALLATION

- Need to have installation place.
  Maintenance Zone & Play zone should have at least 2000mm x 2500mm each.

IMPORTANT

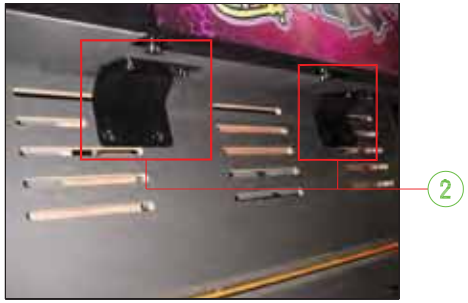
- Please do not install the equipment in the place where it is exposure to direct sunlight in order to avoid malfunction of sensor. Indoor intensity of illumination need to be 200lux~300Lux.



[How to Installation] - MAIN CASE

1

2



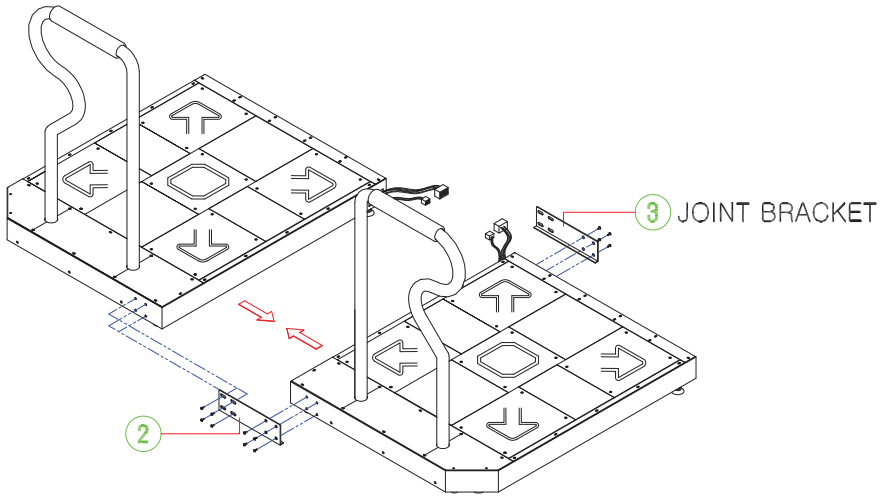
3

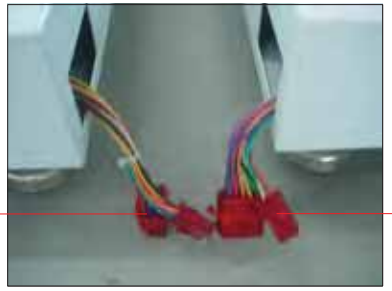
- (1) Billboard box is put on the back of the cabinet body in the factory.

- Please remove two (2) "Support bracket" by using hand bolt and build up "Billboard". (M6 hand bolt *4ea)
  Please be careful of two (3) connectors from Billboard while you are working on this job.

- STEP

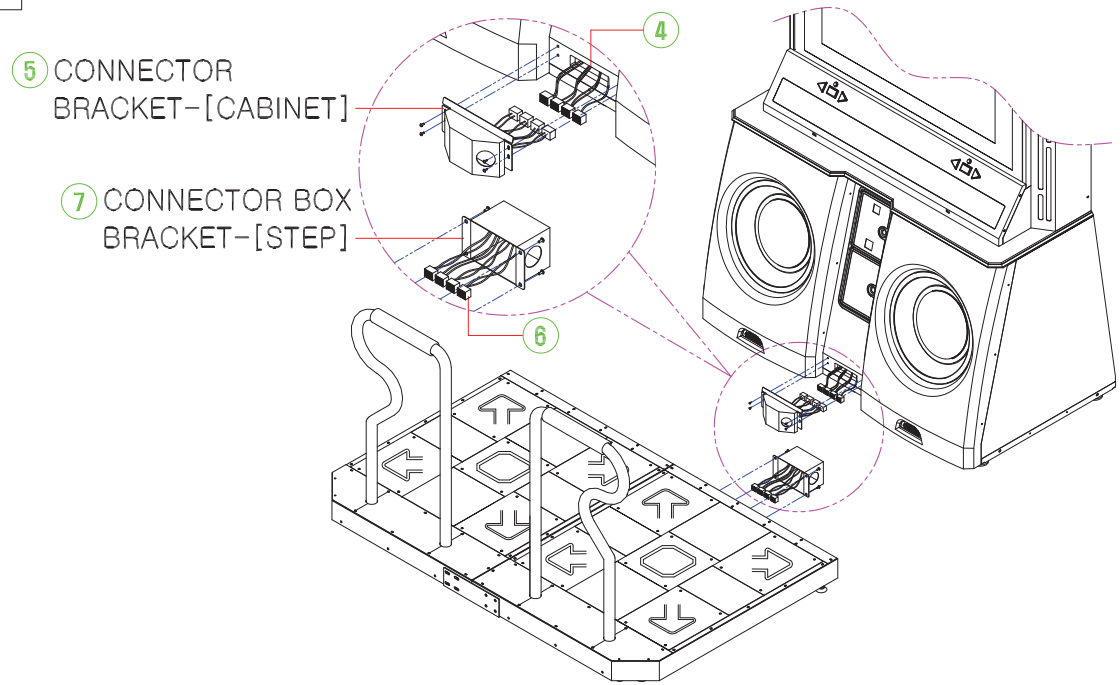
4





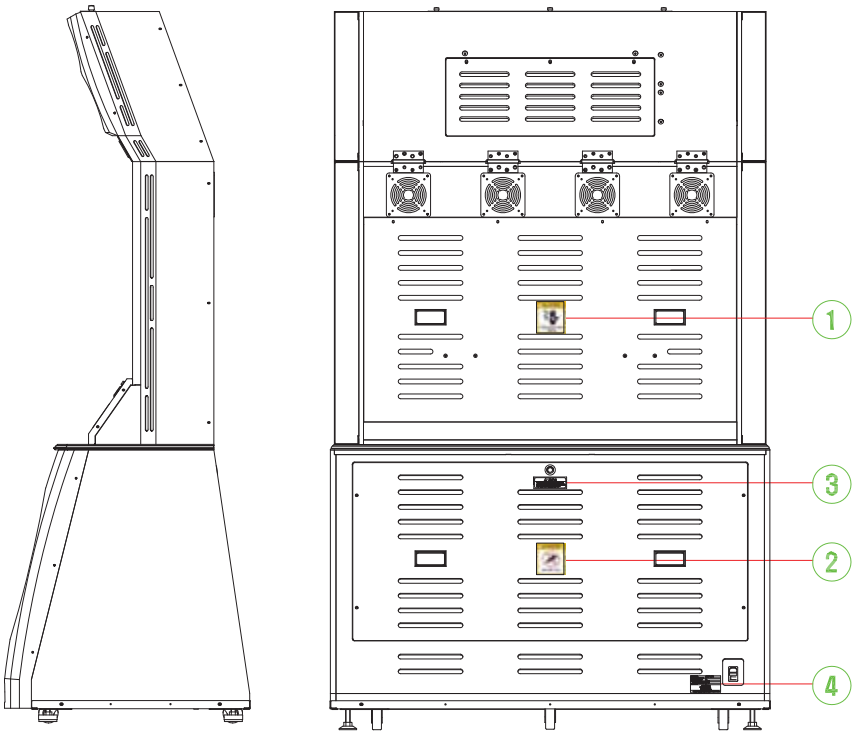
- 1 As a picture, please connect connectors between Foot Ass'y 1P and Foot Ass'y 2P and fix them using 2 3 Joint bracket (M8boltx16ea)

5

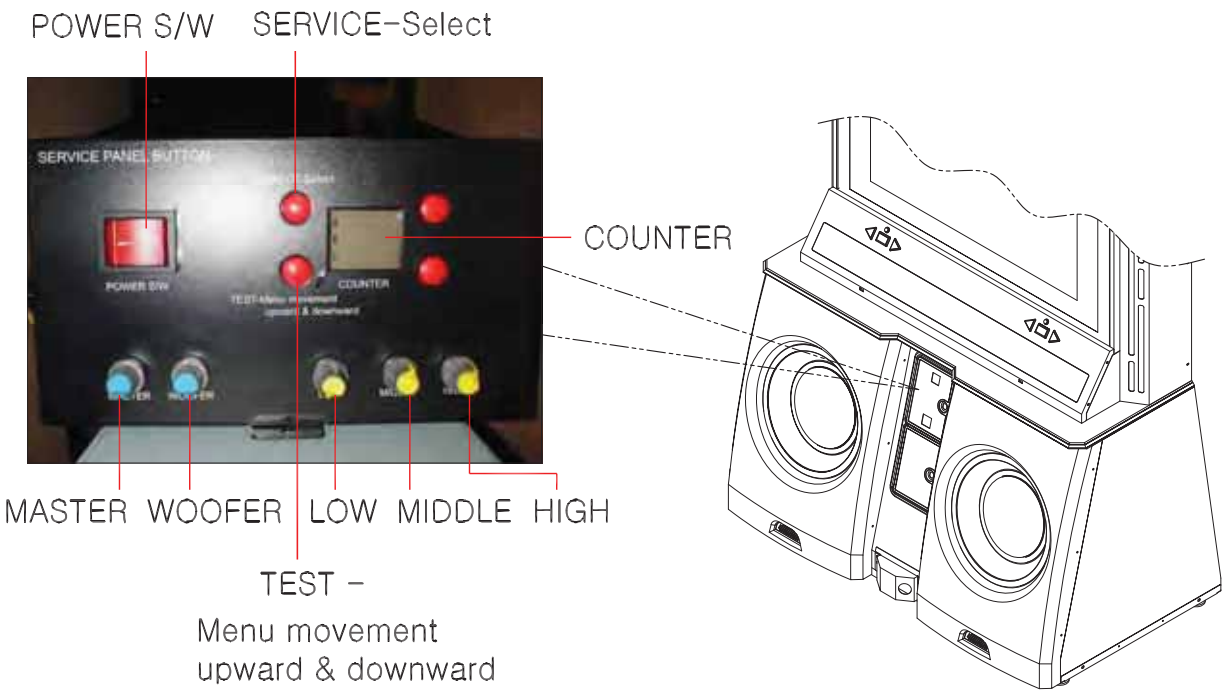


- After completing those 4 connections, Please connect 5 "Connector bracket and cabinet"(Bolt M4x 4ea). Please 6 connect 7 "Connector box bracket and Step (Bolt M6x4ea) after link connector with connector box.

3. STICKER LOCATION



[SERVICE PANEL BUTTON EXPLANATION]



4. SETUP MENU

Setup the machine proper for your own game center.

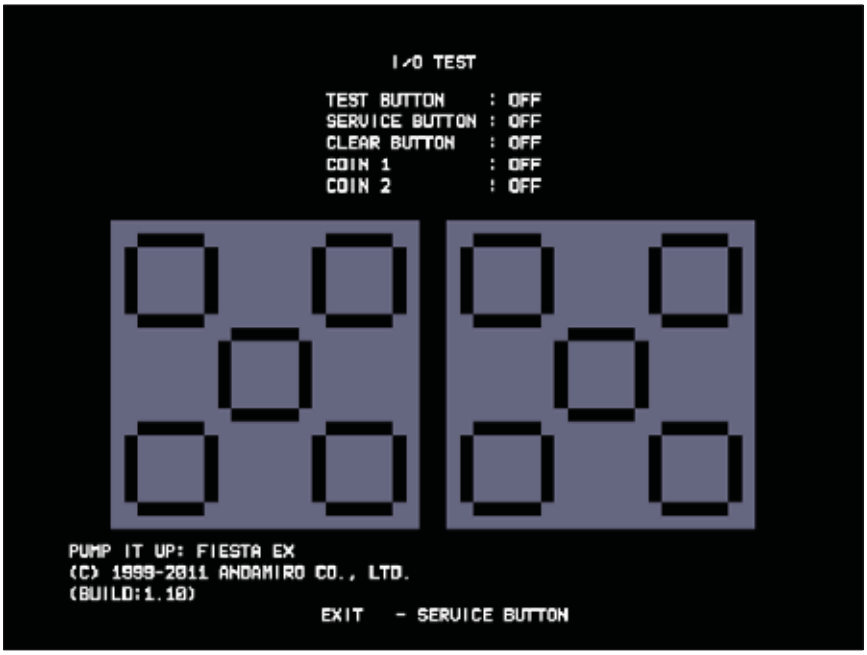
Service Options

Test the hardware and set options before using the game.

Press the "Test" button (O TEST) located in the service box at any time.
The Service Options menu will appear.

4-1. I/O TEST

You can test pad sensors and lamps and buttons located on the body of the machine.



1. Press the "Test" button (O test) to enter I/O TEST in SET UP MENU.

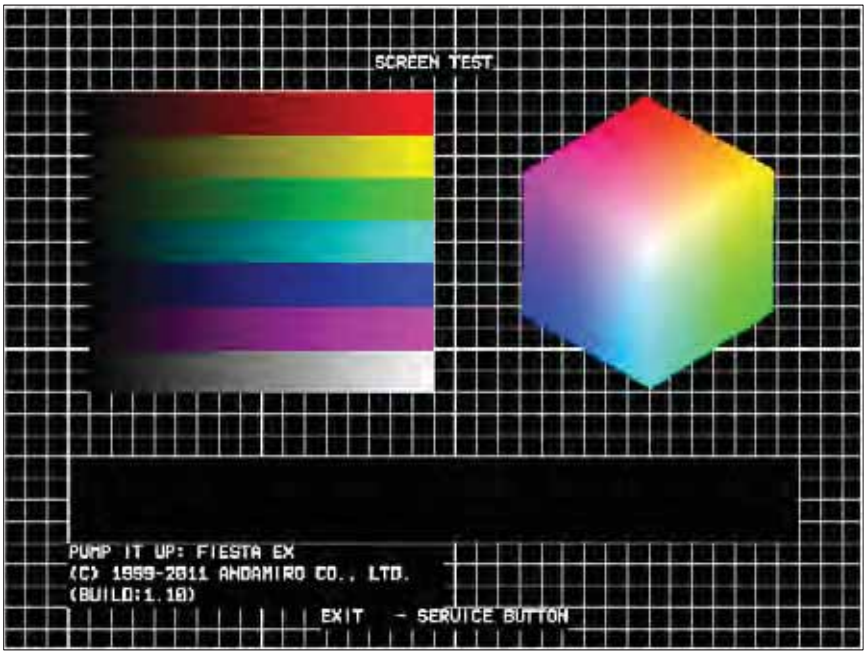
2. Press each button in order to check each button function. If it is normal, "OFF" on the screen is changed to "ON".

"If it does not work well, contact the service center for advice or repair."

3. Press the "Service" Button(O service) to exit from I/O TEST.

4-2. SCREEN TEST

Check out the status of monitor screen.



1. Press the "Test" button (O test) to enter SCREEN TEST in SET UP MENU.

"If color and linearity of latticed pattern is not normal, contact the service center for advice or repair."

2. Press the "Service" Button(O service) to exit from SCREEN TEST.

4-3. GAME SETTING

Set the degree of game difficulty and stage option.

1. Press the "Test" button (O test) to enter GAME OPTION in SET UP MENU and move the cursor to each GAME OPTION.

2. Press the "Service" button in order to change option of each GAME OPTION.

a. GAME MODE

Select "Normal" or "Event".

b. INITIAL LIFE

Please make a choice for player's initial life between "4" and "5".

c. LEVEL

Set the degree of difficulty of game.

The degree of difficulty is set in three steps, including Easy/Normal/Hard.

d. STAGE BREAK

Set up that a stage break is applied from which stage.

Available setting : OFF/Stages 1~4

d. DEMO SOUND

DEMO Sound ON/OFF

f. DEFAULT SETTING

Return to Factory Default Setting

g. EXIT

Exit to the game screen with saving the changed stetting

4-4. COIN SETTING

You can set up number of coins for a credit.

1. Press the "Test" button (O test) to enter COIN OPTION in SET UP MENU and move the cursor to each COIN OPTION.

2. Press the "Service" button in order to set up number of coins for a credit.

3. COIN MODE

   - Set up a coin type you want to choose.
   - Available setting : COIN / CARD

4. COIN CLEAR

   - You can reset the coin counts remaining in the machine.

4-5. USB DRIVE

1. Press the "Test" button(O test) to enter USB DRIVE in SET UP MENU.

2. Player 1 menu and press the Service Button after inserting USB memory Stick into the 1P port of USB Cover BOX Ass'y.

3. Proceed the same steps for Player 2.

4-6. SOUND TEST

In order to achieve better sound track & sound effect.
You may check status of speaker & woofer, and adjust volume as well.

1. Move into sound test in setting mode. After Pushing Test(O test) button, please move a cursor to "Volume' or "Audio"
2. In order to adjust volume, please press "Service (O service) button in volume menu.
3. In order to choose a song. Please press "Service (O service) button in Audio menu.

   - The default volume is 80 to 50 to 95 can be adjusted.
   - It's not recommendable to adjust this value because it may damage woofer in case set volume become higher than default value.

4-7. BOOKKEEPING MENU

You can check the number of coins and service coins put into the machine.

1. Press the "Test" button (O test) to enter BOOKKEEPING in SET UP MENU and move the cursor to each BOOKKEEPING.
2. Press the "Service" button in order to make the record of BOOKKEEPING reset.

4-8. STATISTICS MENU

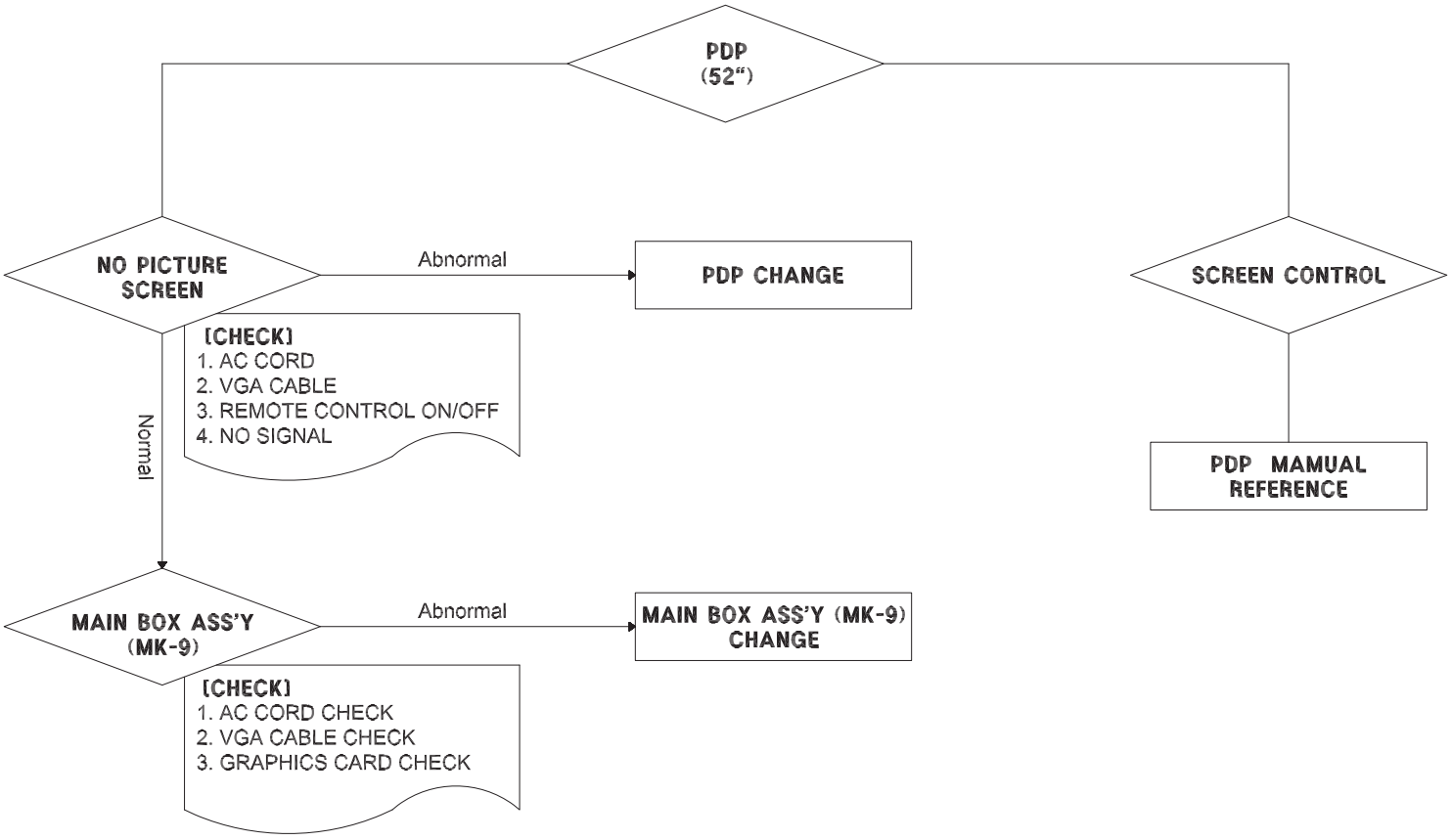
It indicates the number of the play on each song.

1. Press the "Test" button (O test) to enter STATISTICS in SET UP MENU. Keep pressing the "Test" button" to move the cursor to the end of the song list.

5. TROUBLESHOOTING

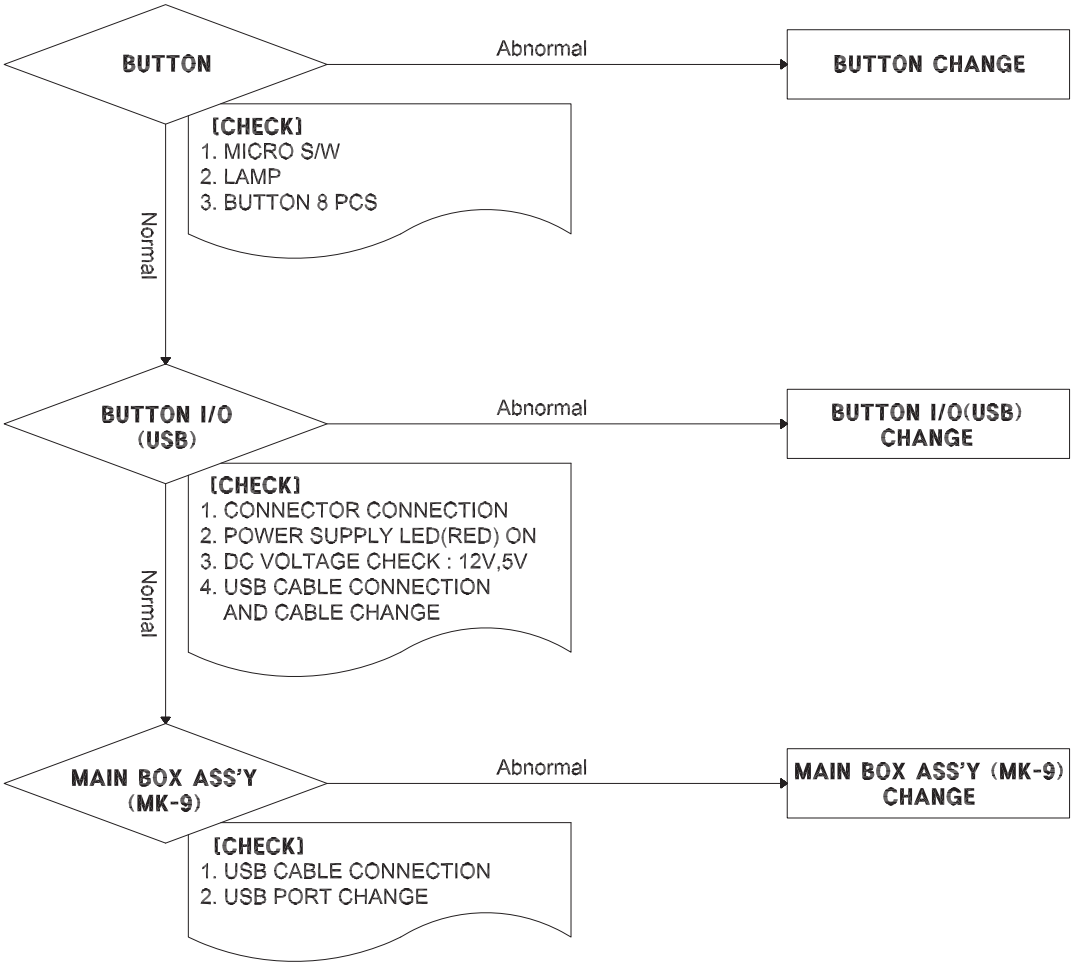
5-1. PICTURE

* COMMON : INPUT VOLTAGE CHECK
WIRING CONNECTION CHECK



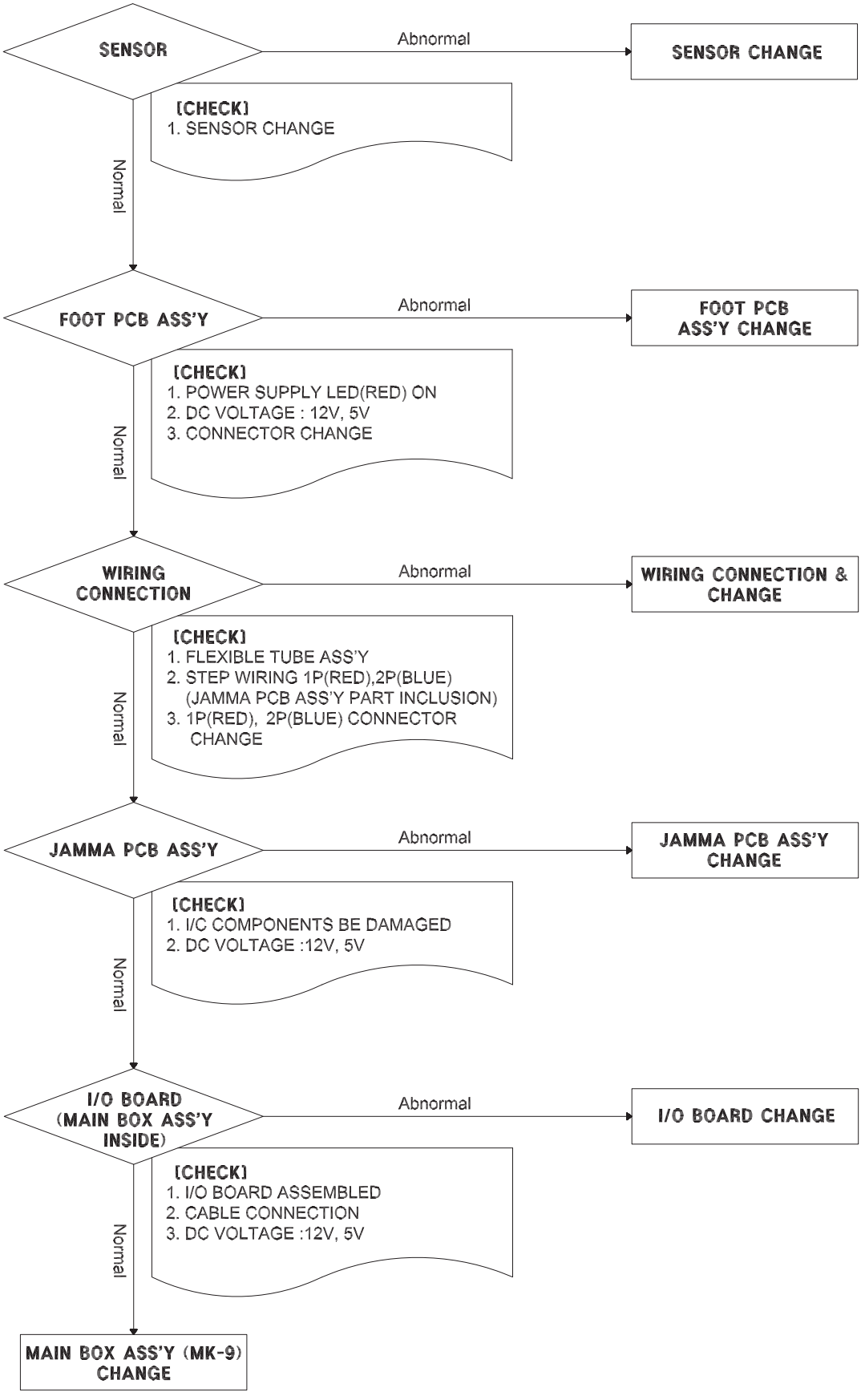
5-2. BUTTON

* COMMON : INPUT VOLTAGE CHECK
WIRING CONNECTION CHECK



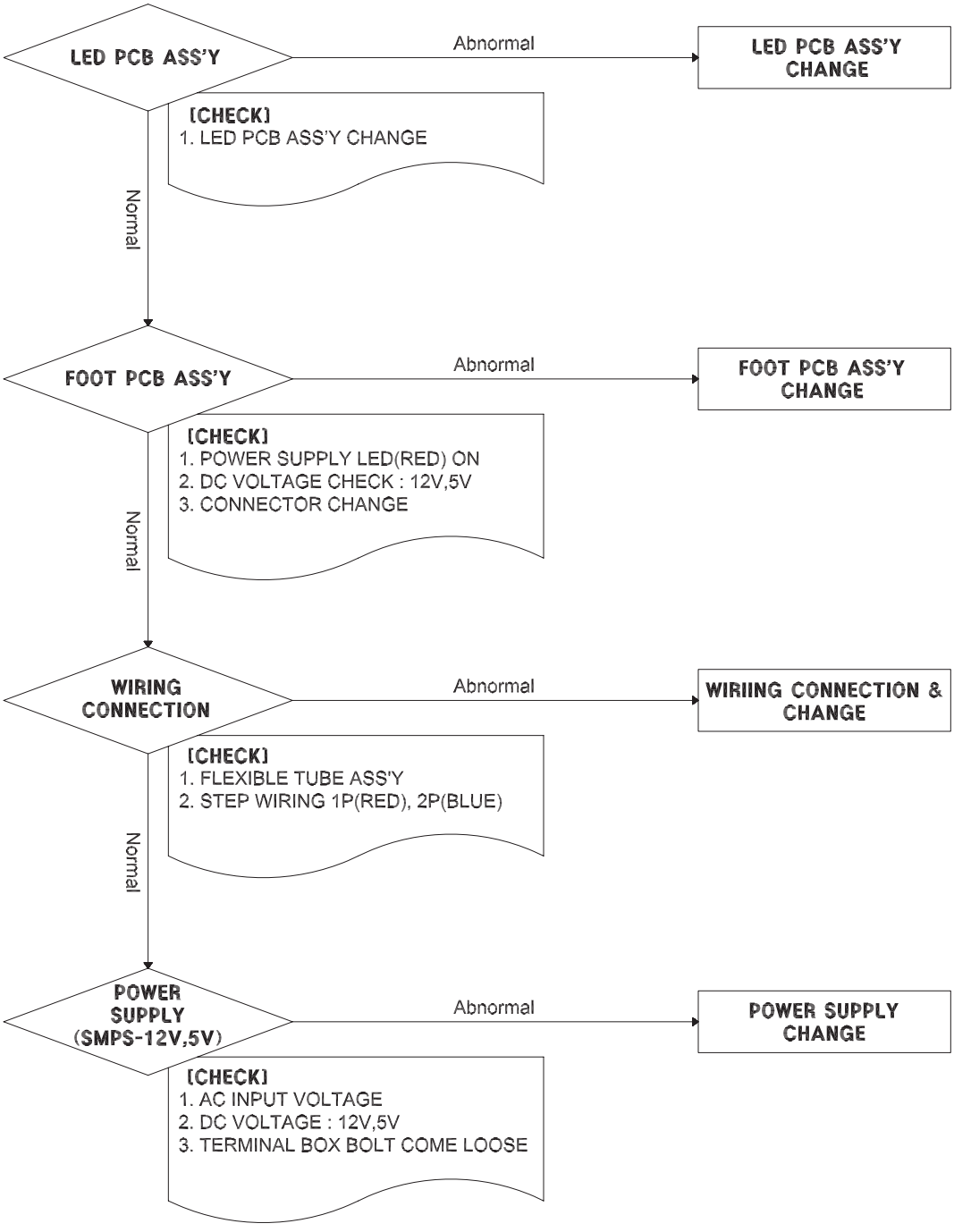
5-3. STEP SENSOR

* COMMON : INPUT VOLTAGE CHECK
WIRING CONNECTION CHECK



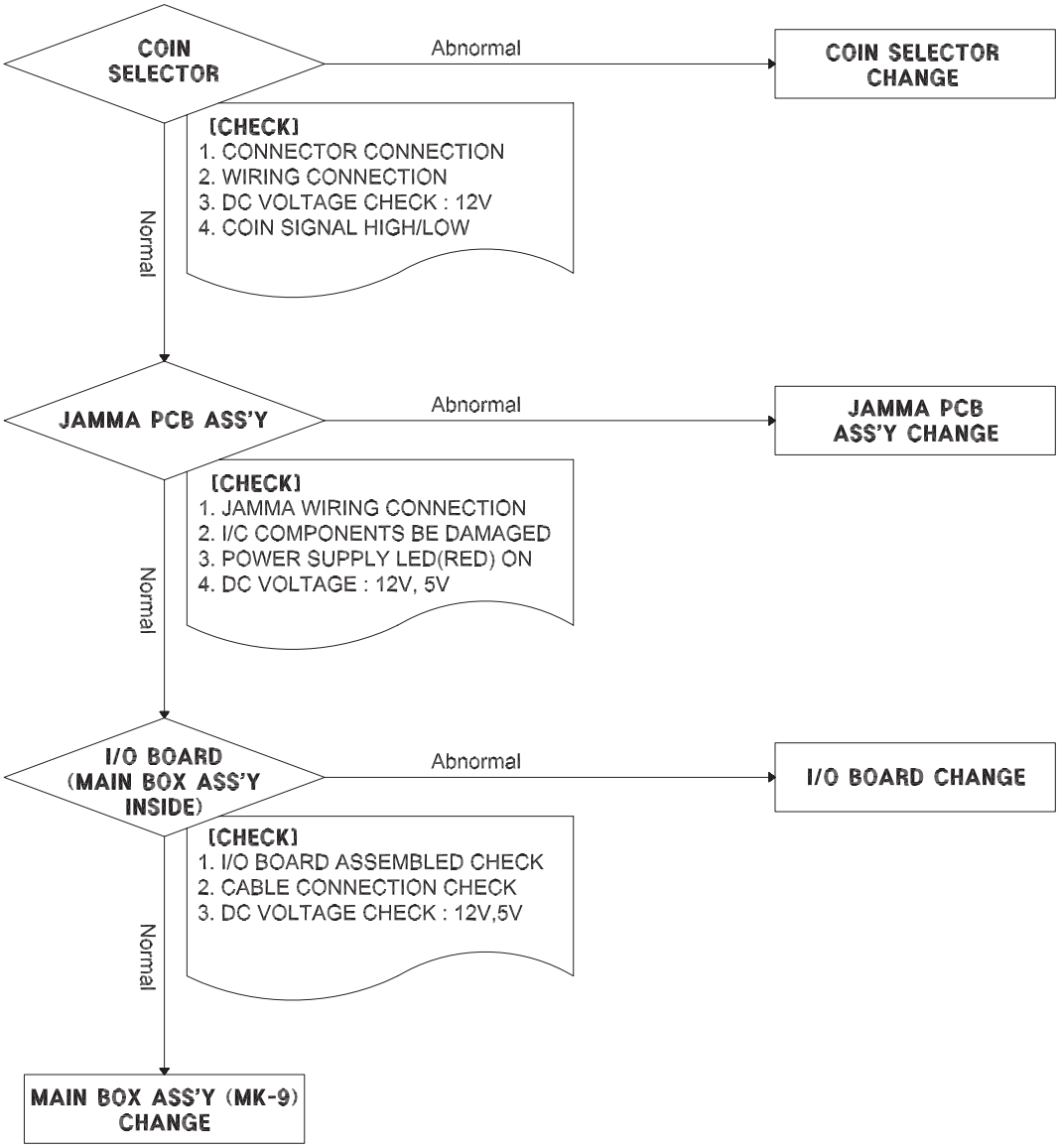
5-4. STEP LED

* COMMON : INPUT VOLTAGE CHECK
WIRING CONNECTION CHECK



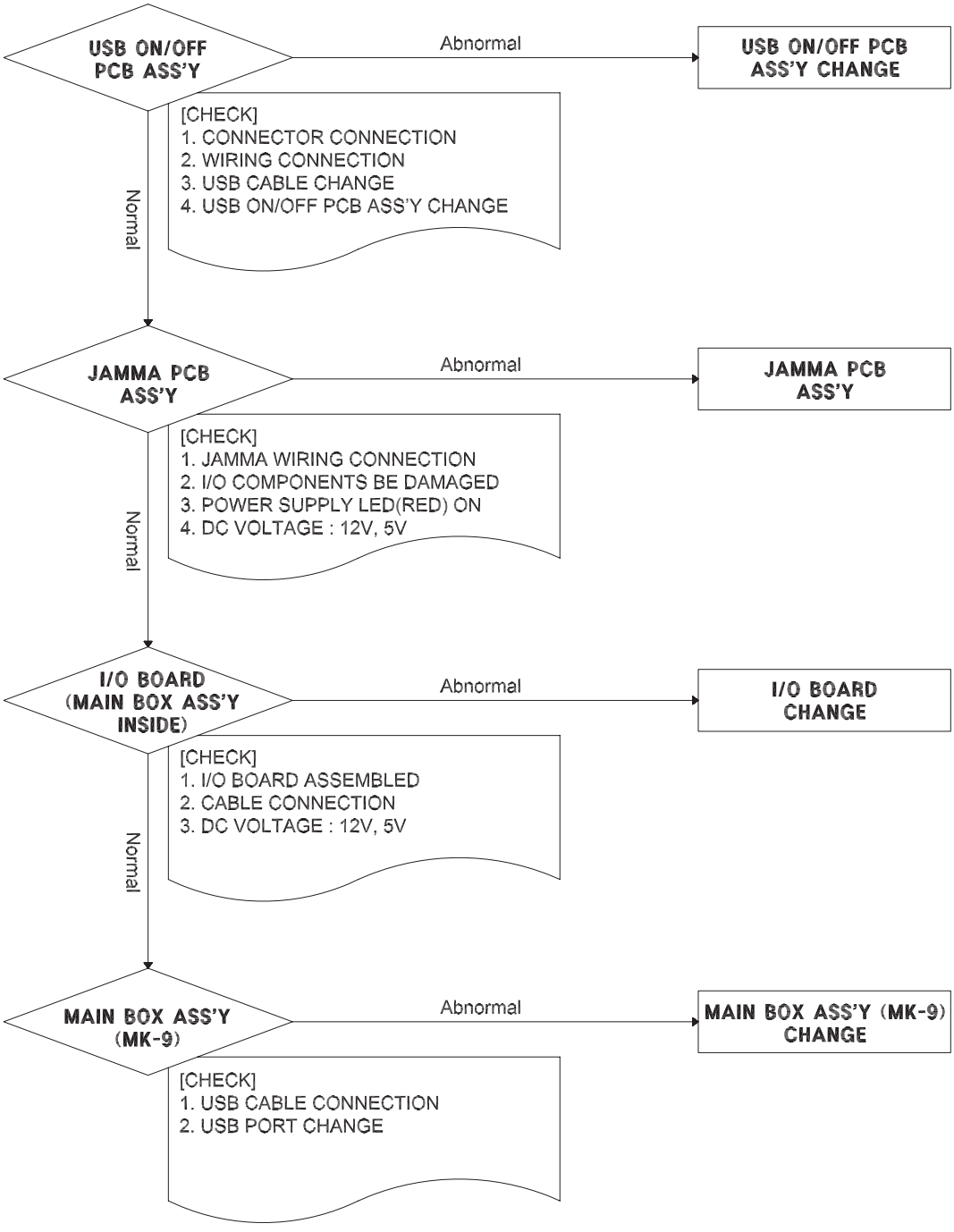
5-5. COIN SELECTOR

* COMMON : INPUT VOLTAGE CHECK
WIRING CONNECTION CHECK

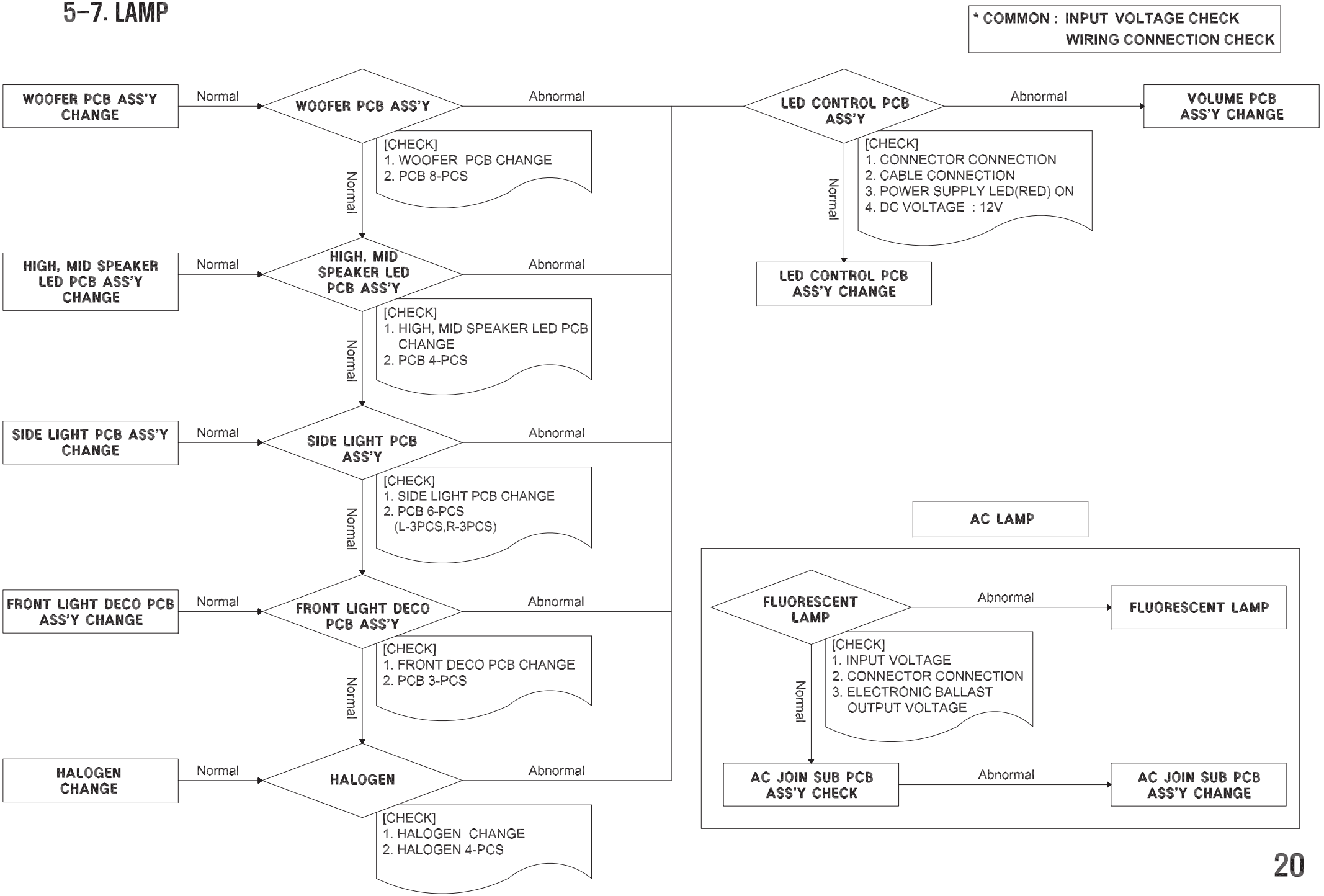


5-6. USB ON/OFF

* COMMON : INPUT VOLTAGE CHECK
WIRING CONNECTION CHECK

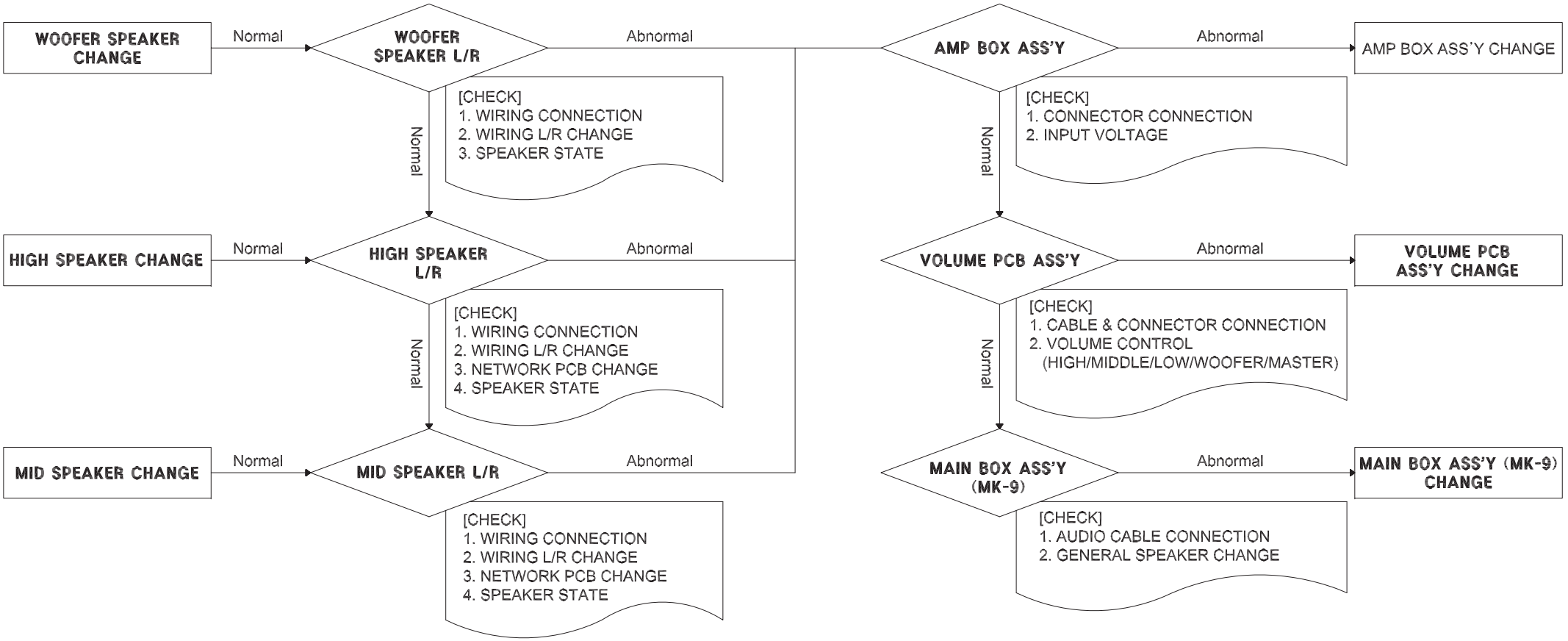


5-7. LAMP


* COMMON : INPUT VOLTAGE CHECK
WIRING CONNECTION CHECK
WOOFER PCB ASS'Y CHANGE
Normal
WOOFER PCB ASS'Y
Abnormal
[CHECK]
1. WOOFER PCB CHANGE
2. PCB 8-PCS
Normal
HIGH, MID SPEAKER LED PCB ASS'Y CHANGE
Normal
HIGH, MID SPEAKER LED PCB ASS'Y
Abnormal
[CHECK]
1. HIGH, MID SPEAKER LED PCB CHANGE
2. PCB 4-PCS
Normal
SIDE LIGHT PCB ASS'Y CHANGE
Normal
SIDE LIGHT PCB ASS'Y
Abnormal
[CHECK]
1. SIDE LIGHT PCB CHANGE
2. PCB 6-PCS
(L-3PCS,R-3PCS)
Normal
FRONT LIGHT DECO PCB ASS'Y CHANGE
Normal
FRONT LIGHT DECO PCB ASS'Y
Abnormal
[CHECK]
1. FRONT DECO PCB CHANGE
2. PCB 3-PCS
Normal
HALOGEN CHANGE
Normal
HALOGEN
Abnormal
[CHECK]
1. HALOGEN CHANGE
2. HALOGEN 4-PCS
LED CONTROL PCB ASS'Y
Abnormal
VOLUME PCB ASS'Y CHANGE
[CHECK]
1. CONNECTOR CONNECTION
2. CABLE CONNECTION
3. POWER SUPPLY LED(RED) ON
4. DC VOLTAGE : 12V
Normal
LED CONTROL PCB ASS'Y CHANGE
AC LAMP
FLUORESCENT LAMP
Abnormal
FLUORESCENT LAMP
[CHECK]
1. INPUT VOLTAGE
2. CONNECTOR CONNECTION
3. ELECTRONIC BALLAST OUTPUT VOLTAGE
Normal
AC JOIN SUB PCB ASS'Y CHECK
Abnormal
AC JOIN SUB PCB ASS'Y CHANGE

5-8. SOUND

*** COMMON : INPUT VOLTAGE CHECK**
WIRING CONNECTION CHECK



1. IN CASE NOISE
2. L/R BALANCE

→ AMP BOX & MAIN BOX ASS'Y FG CONNECTION CHECK

6. REPLACEMENT METHOD OF CONSUMABLE PARTS

6-1. LED LAMP

1

그림 A

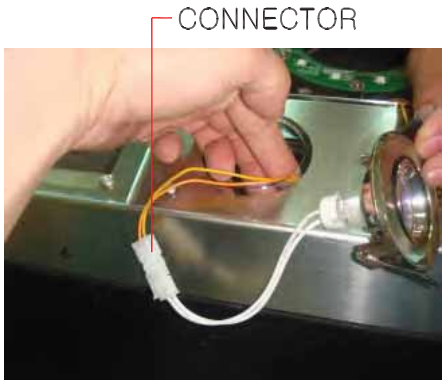


그림 B

- There are two (1) LED lamps in Billboard.

- LED Lamp can be replaced in the front. Carefully handle two connection wires.

6-2. BILLBOARD LAMP

1

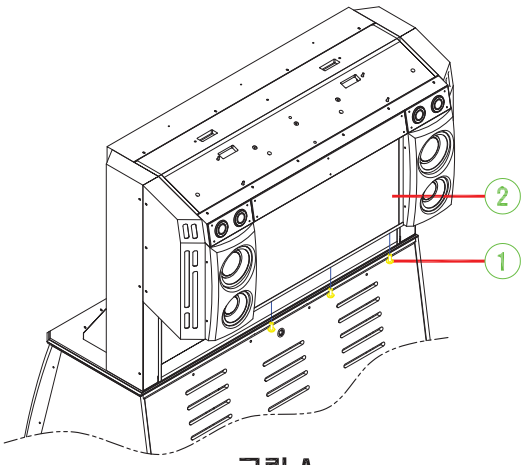


그림 A

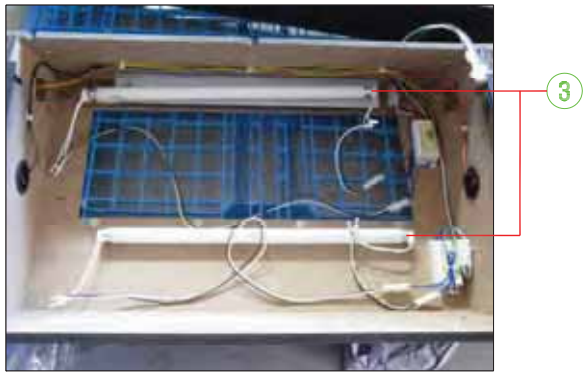


그림 B

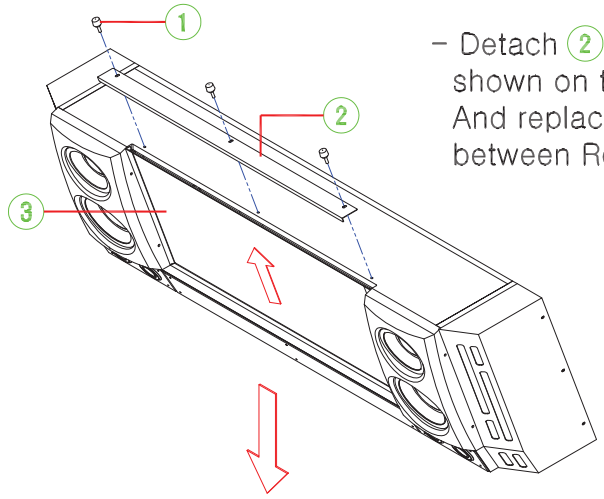
(1) Using billboard hinge, install them as Picture A. After loosen (1) "Hand bolt"(3ea), Disassemble (2) billboard sheet and Acryl.

NO.	PART NAME	SPEC.	CODE NO.
③	FLUORESCENT LAMP	FL20SD-20W	MELE0LAM002

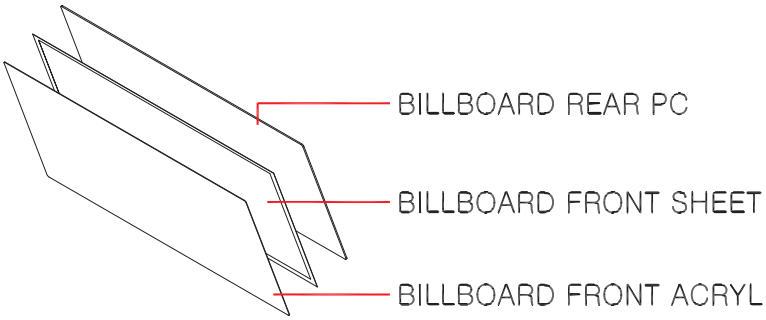
(2) Please change (3) lamp after disconnecting (4) connector.

6-3. BILLBOARD SHEET

1

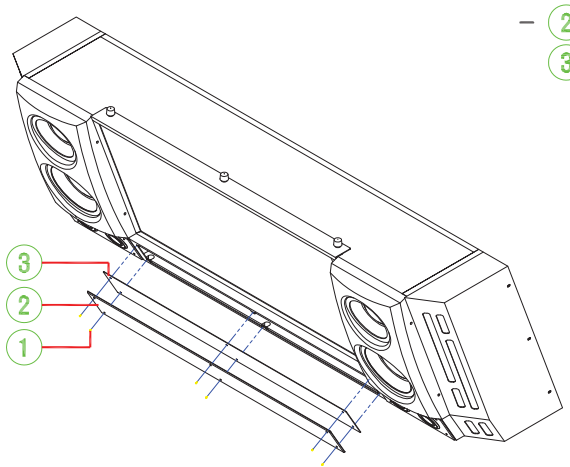


- Detach (2) billboard PC cover after screwing out (1) 3 bolts as shown on the picture.
And replace (3) billboard sheet. The new billboard should be in between Rear cover and Front cover as shown on the picture.



6-4. SHEET FOR "HOW TO PLAY"

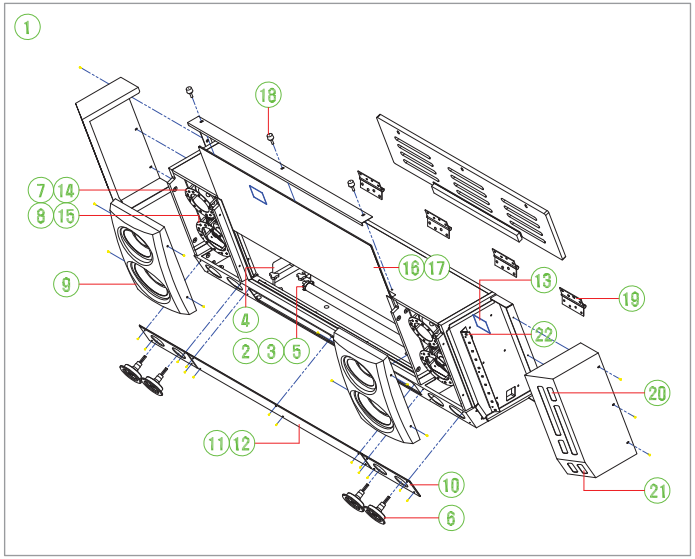
1

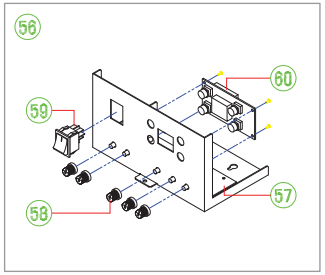


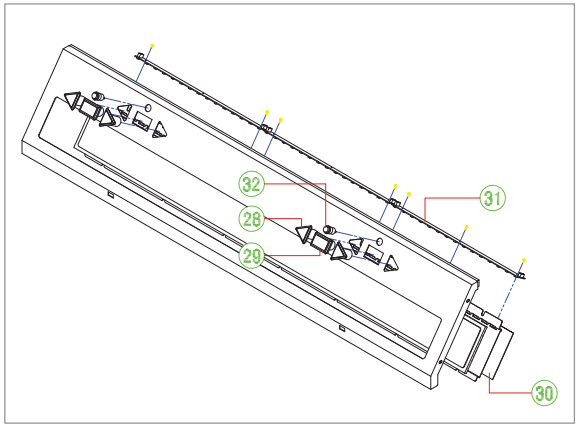
- (2) Detach 6 M4 (1) bolts. And replace explanation (3) sheet for "How to play"

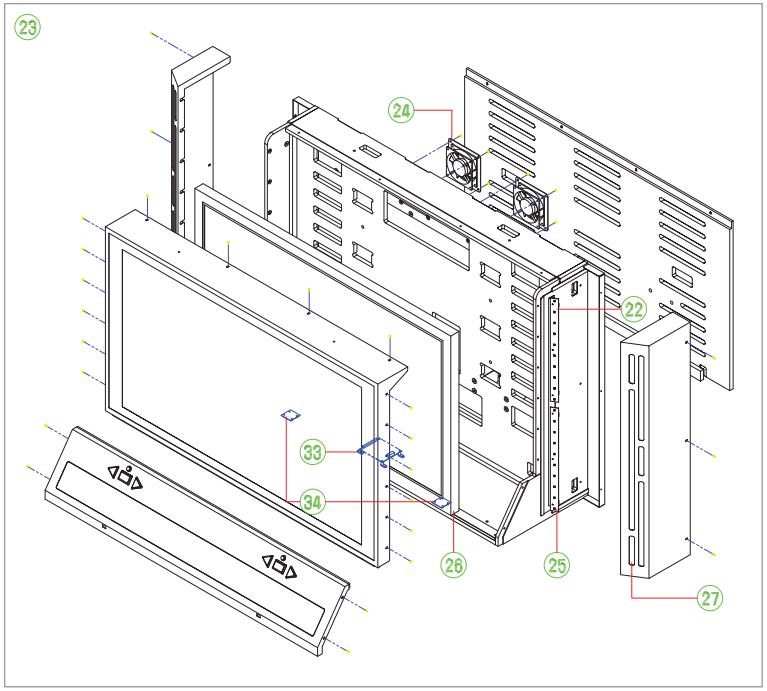
7. PARTS LIST

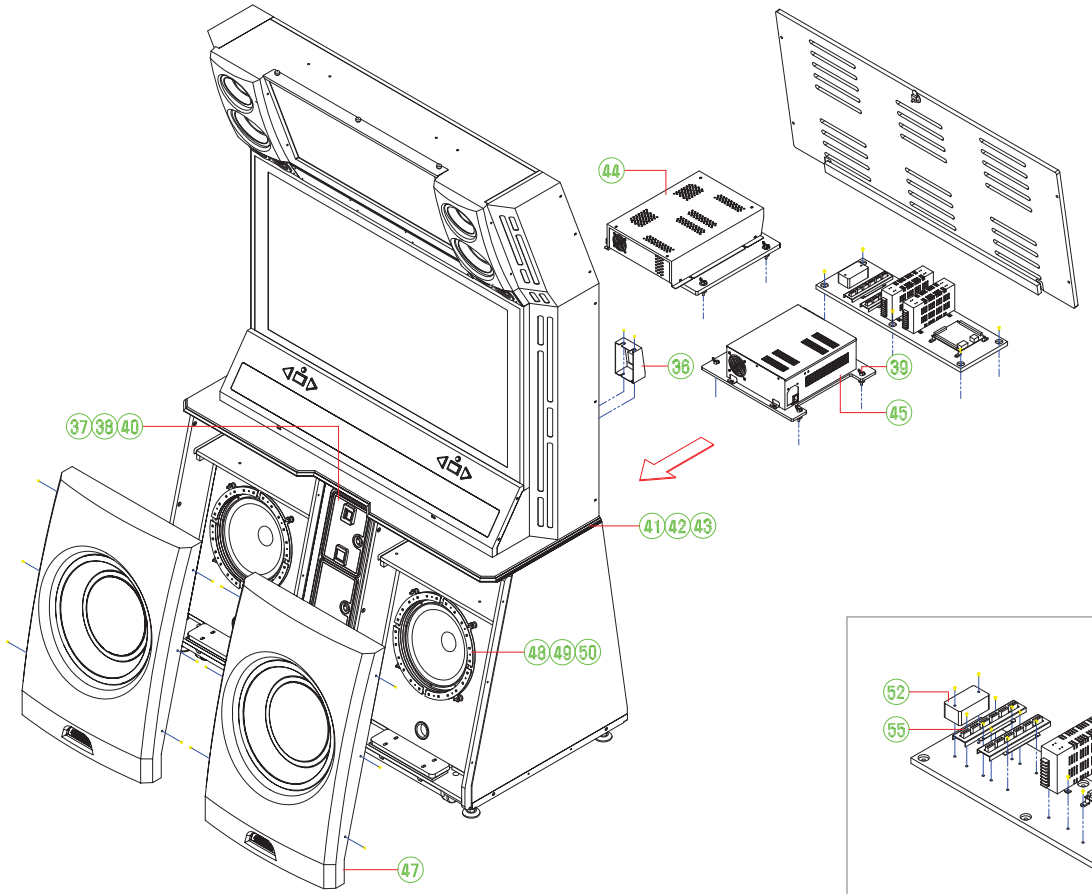
7-1. EXPLODED VIEW

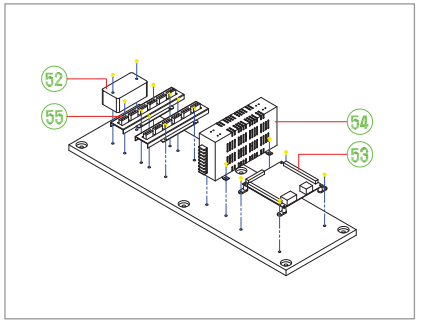










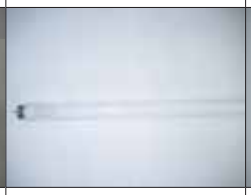
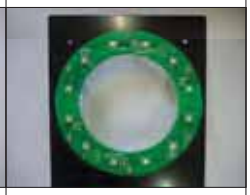


7-2. LIST

NO.	PIC	LEVEL		PART NAME	SPEC.	QTY	CODE NO.
1		1		**BILLBOARD CASE ASS'Y**			
2	O		2	LAMP CLAMP	-	4	MELE0LAM014
3	O		2	FLUORESCENT LAMP	FL20SD-20W	2	MELE0LAM002
4			2	ELECTRONIC BALLAST	220V FL 20W 1등용	2	MELE0BAL001
5			2	Y-SOCKET	10W SOCKET	4	MELE0SOC004
6	O		2	LED LAMP ASS'Y	MR16 LED TYPE	4	MELE0LAM060
7	O		2	HIGH SPEAKER LED PCB ASS'Y	-	2	APUT0PCB011
8	O		2	MID SPEAKER LED PCB ASS'Y	-	2	APUT0PCB012
9	O		2	MID SPEAKER MASK	PC-4.0t	1	MPUT0PLA003
10			2	LED LAMP BASE	ACRYL-3.0t	2	MPUT0ACR009
11			2	HOWTOPLAY PANEL	ACRYL-3.0t	1	MPUT0ACR011
12			2	HOWTOPLAY BACK PANEL	PET-1.0t	1	MPUT0ACR010
13			2	SPEAKER NETWORK PCB ASS'Y	-	2	APUT0PCB007
14	O		2	SPEAKER	3" HIGH	2	MZZZ0SPE026
15	O		2	SPEAKER	5 1/4" MID	2	MZZZ0SPE027
16			2	BILLBOARD REAR PANEL	PC-3.0t	1	MPUT0ACR007
17			2	BILLBOARD FRONT PANEL	PET-1.0t	1	MPUT0ACR006
18	O		2	HAND BOLT	M4, PKB4 L=20	3	MZZZ0PLA023
19	O		2	HINGE	HS-2Tx75x100	4	MZZZ0HIN002
20			2	TOP LIGHT ACRYL-A	ACRYL-5.0t	2	MPUT0ACR016
21			2	TOP LIGHT ACRYL-B	ACRYL-5.0t	2	MPUT0ACR017
22			2	TOP & SIDE LIGHT PCB ASS'Y	-	2	-
23		1		**TOP CASE ASS'Y**			
24	O		2	FAN	120mm SLEEVE	2	MZZZ0FAN001
25	O		2	PDP	52HD_U2P	1	AZZZ0PDP001
26			2	SCREEN COVER	GLASS-5.0t	1	MPUT0GLA001
27			2	SIDE LIGHT ACRYL	ACRYL-5.0t	2	MPUT0ACR012
28	O		2	BUTTON SWITCH	BLC-TN-BK-G-CY	4	MZZZ0BUT075
29	O		2	BUTTON SWITCH	BLC-TN-BK-F-CG	2	MZZZ0BUT074
30			2	FRONT LIGHT DECO ACRYL	ACRYL-8.0t	1	MPUT0ACR008
31	O		2	FRONT LIGHT DECO PCB ASS'Y	-	3	APUT0PCB015
32	O		2	PUSH BUTTON L	16MM DC12V WECO	2	MZZZ0BUT056
33	O		2	IO PCB ASS'Y	-	1	APUF0PCB014
34	O		2	USB ONOFF PCB ASS'Y-1P	-	2	APUF0PCB011

NO.	PIC	LEVEL		PART NAME	SPEC.	QTY	CODE NO.
35		1		**MAIN CASE ASS'Y**			
36	O		2	AC INPUT ASS'Y	0717-1S, 10A	1	MELE0SWI014
37	O		2	COIN DOOR ASS'Y	AMCD-100A,1 COIN	1	AZZZ0COD002
38	O		2	COIN SELECTOR	SG-968	1	MZZZ0COS012
39	O		2	NUT	M6, WING NUT	8	-
40	O		2	KEY ASS'Y	7001	1	MZZZ0KEY032
41			2	TABLE TOP ACRYL	ACRYL-5.0t	1	MPUT0ACR015
42			2	TABLE BASE ACRYL	ACRYL-5.0t	1	MPUT0ACR013
43			2	TABLE CENTER ACRYL	ACRYL-8.0t	1	MPUT0ACR014
44	O		2	AMP BOX ASS'Y	-	1	APUT0SYS001
45	O		2	MAIN BOX ASS'Y	MK6 NK	1	APUF0000001
46		1		**WOOFER MASK ASS'Y**			
47	O		2	WOOFER MASK ASS'Y	PC-6.0t	2	MPUT0PLA004
48	O		2	SPEAKER	12" WOOFER	2	MZZZ0SPE028
49	O		2	WOOFER SPEAKER LED PCB ASS'Y	-	8	APUT0PCB013
50	O		2	RUBBER BOLT	M6, ø20x16MM	26	MZZZ0RUB009
51		1		**POWER BASE ASS'Y**	-	1	
52	O		2	NOISE FILTER	ES1-F10	1	MELE0NOI006
53	O		2	LED CONTROL PCB ASS'Y	-	1	APUT0PCB010
54	O		2	POWER_SMPS	CSR028A UL_12V7A,5V8A	2	MELE0SMP034
55	O		2	AC JOIN SUB PCB ASS'Y	-	2	AZZZ0PCB081
56		1		**SERVICE PANEL ASS'Y**			
57	O		2	VOLUME PCB ASS'Y	-	1	APUT0PCB008
58	O		2	VOLUME KNOB	-	5	MELE0VOL006
59	O		2	ROCKER SWITCH	T-125 4P	1	MELE0SWI004
60	O		2	COUNTER LCD PCB ASS'Y	-	1	APUT0PCB014

7-3. 사진

2	3	4	5	7	8
					
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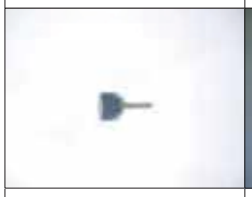					
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					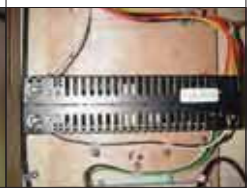
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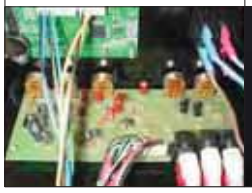
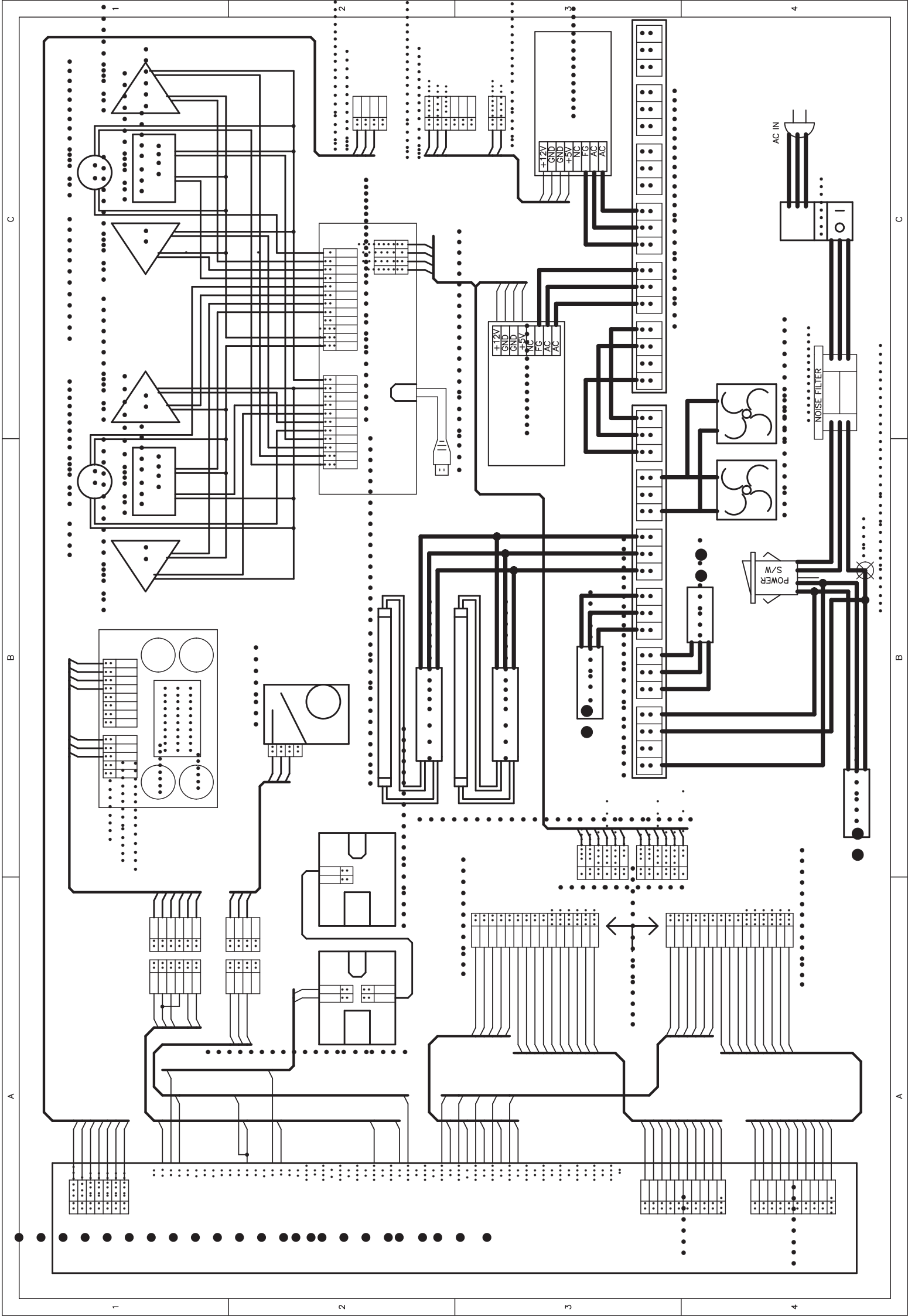
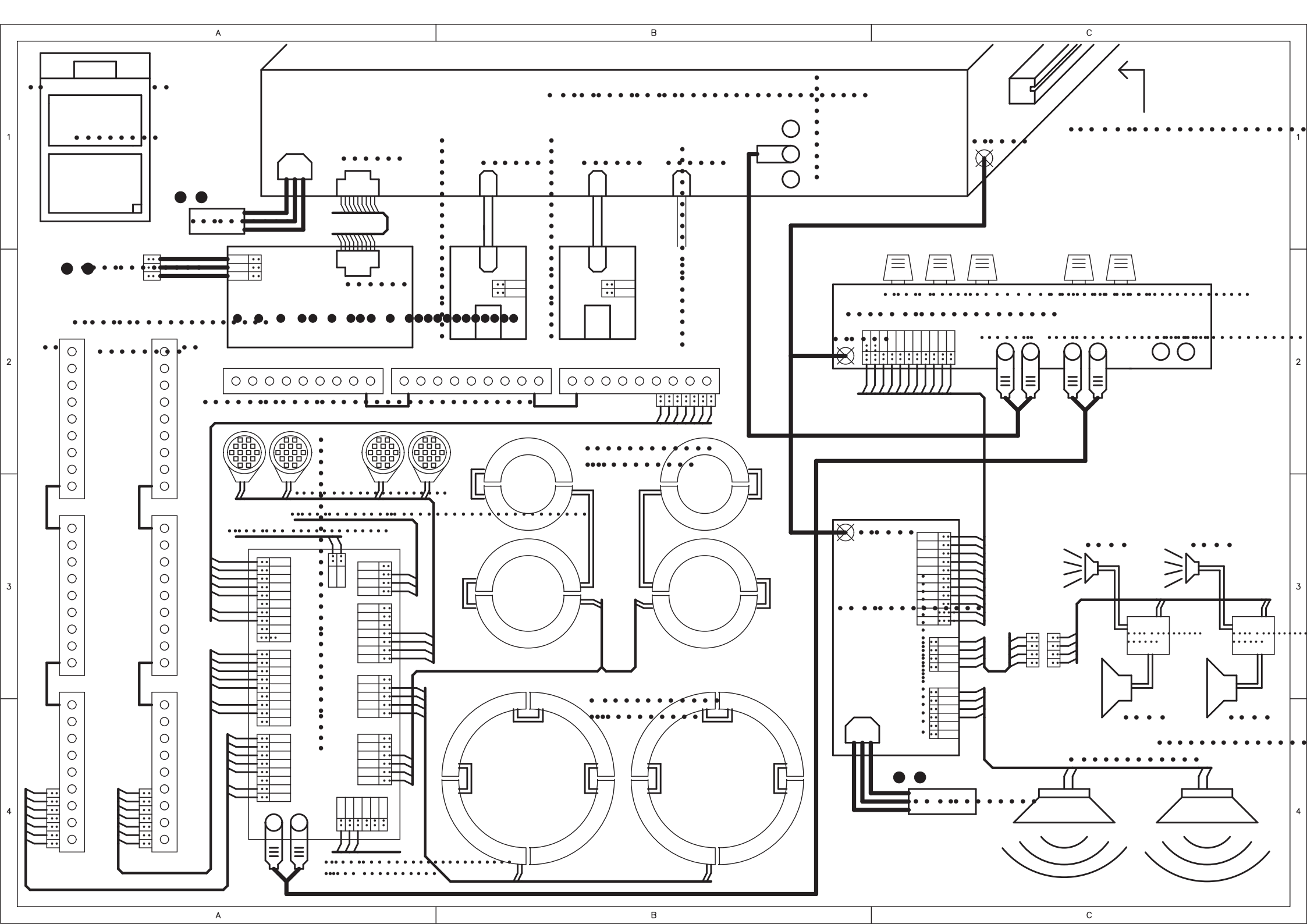
					


+12V
GND
GND
+5V
NC
FG
AC
AC
AC IN
NOISE FILTER
POWER
S/W



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