



**LG**

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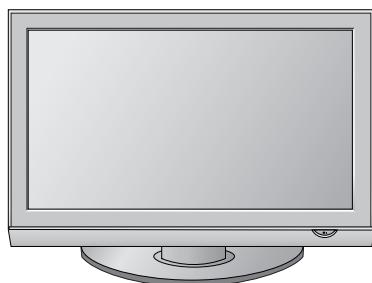
# PLASMA TV SERVICE MANUAL

CHASSIS : PA81A

MODEL : 50PG20D      50PG20D-AA

## **CAUTION**

BEFORE SERVICING THE CHASSIS,  
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



## **CONTENTS**

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# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  $\triangle$  in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

### General Guidance

An **isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**.

Do not lift the Picture tube by its Neck.

### Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between  $1M\Omega$  and  $5.2M\Omega$ .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

**Do not use a line Isolation Transformer during this check.**

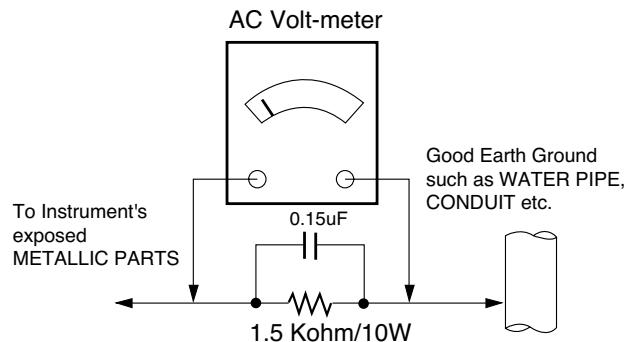
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

### Leakage Current Hot Check circuit



# SPECIFICATIONS

**NOTE :** Specifications and others are subject to change without notice for improvement.

## ■ Application Range

This spec is applied to the 50" PLASMA TV used PA81A Chassis.

Chassis	Model Name	Market	Brand	Remark
PA81A	50PG60UD-AA	Australia	LG	

## ■ Specification

Each part is tested as below without special appointment.

- 1) Temperature :  $25\pm 5^{\circ}\text{C}$  ( $77\pm 9^{\circ}\text{F}$ ), CST :  $40\pm 5$
- 2) Relative Humidity:  $65\pm 10\%$
- 3) Power Voltage: Standard Input voltage (100-240V~, 50/60Hz)  
\* Standard Voltage of each product is marked by models.
- 4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with SBOM.
- 5) The receiver must be operated for about 20 minutes prior to the adjustment.

## ■ Test Method

1) Performance : LGE TV test method followed.

2) Demanded other specification

Safety : CB specification

EMC : CISPR 13 specification

Model	Market	Appliance	Remark
50PG60UD-AA	Australia	Safety : IEC/EN60065 EMI : CISPR 13 Class B	

## ■ General Specification ( 50" WXGA )

No	Item	Specification	Remark
1	Display Screen Device	50" Wide Color Display Module	Plasma Display Panel
2	Aspect Ratio	16:9	
3	PDP Module	PDP50G1, RGB Closed(Well) Type, Glass Filter(38%) Pixel Format : 1365horiz. By 768 ver.	
4	Operating Environment	1)Temp. : 0~40deg 2)Humidity : 20~80%	LGE SPEC.
5	Storage Environment	3)Temp. : -20~60deg 4)Humidity : 10~90%	
6	Input Voltage	100-240V~, 50/60Hz	Maker : LG

## ■ Module Specification2

No	Item	Specification	Remark
1	Market	Australia	
2	Broadcasting system	1) PAL-BG 2) DVB T	
3	Receiving system	Analog : Upper Heterodyne Digital : COFDM	
4	Video Input (2EA)	PAL, NTSC	Rear AV 1EA, Side AV 1EA
5	S-Video Input (1EA)	PAL, NTSC	Side AV
6	Component Input (2EA)	Y/Cb/Cr, Y/Pb/Pr	
7	RGB Input	RGB-PC	Analog(D-Sub 15Pin)
8	HDMI Input(3EA)	HDMI-PC HDMI-DTV	HDMI1/DVI,HDMI2,HDMI3(Side)
9	Audio Input (6EA)	RGB/DVI Audio, Component, AV	
10	SPDIF Out(1EA)	SPDIF Out	
11	USB	X-Studio(JPEG,MP3), Upgrade(USB1.3)	Side

# ADJUSTMENT INSTRUCTION

## 1. Application Object

These instructions are applied all of the 50" PLASMA TV,  
PA81A Chassis.

## 2. Note

- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
  - (2) Adjustment must be done in the correct order.
  - (3) The adjustment must be performed in the circumstance of  $25\pm5^{\circ}\text{C}$  of temperature and  $65\pm10\%$  of relative humidity if there is no specific designation.
  - (4) The input voltage of the receiver must keep  $100\text{-}240\text{V}\sim$ ,  $50\text{/}60\text{Hz}$ .
  - (5) The receiver must be operated for about 15 minutes prior to the adjustment.
- After RGB Full white HEAT-RUN Mode, the receiver must be operated prior to adjustment.
  - Enter into HEAT-RUN MODE
    - 1) Press the POWER ON KEY on R/C for adjustment.
    - 2) OSD display and screen display PATTERN MODE.
      - Select "3. Test Pattern" by using  $\Delta/\nabla(\text{CH}+/-)$  and press ENTER()
      - Select "White" by using  $(\blacktriangleleft/\triangleright)\text{VOL}+/-$  and press ENTER()

- \* Set is activated HEAT-RUN without signal generator in this mode.
- \* Single color pattern(RED/BLUE/GREEN) of HEAT-RUN mode uses to check PANEL.

\* Using 'power on' button off the control R/C, power on TV.  
All adjustment process is executed one time through RS-232C.  
Do not connect external input cable.

## 3. S/W auto download using the USB Memory stick

\* Using 'power on' button of the control R/C, power on TV.  
USB file(EPK) version must be bigger than downloaded version of main B/D.

- (1) Insert the USB memory stick the PCB ASSEMBLY.
- (2) Using 'power on' button of the control R/C, power on TV.
- (3) S/W download process is executed automatically.

\* Using 'power on' button off the control R/C, power on TV.

## 4. Auto-control adjustment process

- All adjustment process is executed one time through RS-232C.
- Command send -> ADC Calibration -> Model name download -> EDID download.

NO	Item	CMD1	CMD2	Data 0	Remark
1	Ready	a	d	0 0	Ready
2	ADC	a	d	1 0	ADC start
3	ADC Confirmation	a	d	9 9	
4	ADC Mode Out	a	d	9 0	
5	Download Mode In	a	e	0 0	Transmitting adjustment mode In instruction, operate adjustment command.
6	EDID Download	a	e	1 0~4,9	All=0 ; HDMI1,2,3,4=1,2,3,4 ; RGB=9
7	Check EDID Status	a	e	2 0~4,9	All=0 ; HDMI1,2,3,4=1,2,3,4 ; RGB=9
8	Define model name	a	e	5 1~7	Model define index(Data0) are listed at next table.
9	Adjustment Confirmation	a	e	9 9	EDID data existence check in SET assembly
10	Download Mode Out	a	e	9 0	

■ Adjustment process protocol(RS-232C)

CMD1	CMD2	Data 0		Remark
a	e	5	3	50PG20D-AA

## 5. Manual model name download

- (1) Press ADJ KEY on R/C for model name D/L.
- (2) Select "0.Model Option" and press ENTER()
- (3) Select model name by using  $\Delta/\nabla(\text{CH}+/-)$  and press ENTER()

Model Name	Model Option Value
50PG20D-AA	32013360

## 6. Manual ADC Adjustment

RF Input	AV / Component / RGB input
NO SIGNAL or White noise	NO SIGNAL

- Adjustment is done using internal ADC, so input signal is not necessary.
- Do not connect external input cable.

### 6-1. Required Equipment

- (1) Press ADJ KEY on R/C and enter EZ ADJUST.
- (2) Select “1.EDID D/L” by using ▲/▼(CH+/-) and press ENTER(■).
- (3) Select “Start” by using ◀▶(VOL+/-) and press ENTER(■).
- (4) ADC Adjustment is executed automatically.

## 7. EDID Download

### 7-1. Required Equipment

\*Do not connect HDMI and RGB cable.

- (1) Press ADJ KEY on R/C and enter EZ ADJUST.
- (2) Select “5.EDID D/L” by using ▲/▼(CH+/-) and press ENTER(■).
- (3) Select “Start” and press ENTER(■).
- (4) EDID download is executed automatically.
- (5) Press EXIT key on R/C.

### 7-2. EDID DATA

#### (1) RGB EDID

Addr	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
0000	00	FF	FF	FF	FF	FF	FF	00	1E	6D	DC	C3	01	01	01	01
0010	03	12	01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25
0020	11	49	4B	A1	08	00	31	40	45	40	61	40	81	80	90	40
0030	D1	C0	01	01	01	01	1A	36	80	A0	70	38	1F	40	30	20
0040	35	00	E8	26	32	00	00	1A	1B	21	50	A0	51	00	1E	30
0050	48	88	35	00	BC	86	21	00	00	1C	00	00	00	FD	00	39
0060	4B	1F	54	12	00	0A	20	20	20	20	20	20	00	00	00	FC
0070	00	4C	47	54	56	0A	20	20	20	20	20	20	20	20	20	5F

#### (2) HDMI 1

Addr	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
0000	00	FF	FF	FF	FF	FF	FF	00	1E	6D	DD	C3	01	01	01	01
0010	03	12	01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25
0020	11	49	4B	A1	08	00	31	40	45	40	61	40	81	80	90	40
0030	D1	C0	01	01	01	01	02	3A	80	18	71	38	2D	40	58	2C
0040	45	00	C4	8E	21	00	00	1E	1B	21	50	A0	51	00	1E	30
0050	48	88	35	00	BC	86	21	00	00	1C	00	00	00	FD	00	39
0060	4B	1F	54	12	00	0A	20	20	20	20	20	20	00	00	00	FC
0070	00	4C	47	54	56	0A	20	20	20	20	20	20	20	20	20	5F
0080	02	03	22	F1	4D	02	11	01	03	12	13	04	14	05	1F	20
0090	22	10	23	09	57	07	83	01	00	00	67	03	0C	00	30	00
00A0	B8	2D	01	1D	00	72	51	D0	1E	20	6E	28	55	00	C4	8E
00B0	21	00	00	1E	01	1D	00	BC	52	D0	1E	20	B8	28	55	40
00C0	C4	8E	21	00	00	1E	01	1D	80	D0	72	1C	16	20	10	2C
00D0	25	80	C4	8E	21	00	00	9E	8C	0A	D0	90	20	40	31	20
00E0	0C	40	55	00	C4	8E	21	00	00	18	02	3A	80	D0	72	38
00F0	2D	40	10	2C	45	00	BC	88	21	00	00	18	00	00	00	F5

(3) HDMI 2

Addr	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
0000	00	FF	FF	FF	FF	FF	FF	00	1E	6D	DD	C3	01	01	01	01
0010	03	12	01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25
0020	11	49	4B	A1	08	00	31	40	45	40	61	40	81	80	90	40
0030	D1	C0	01	01	01	01	02	3A	80	18	71	38	2D	40	58	2C
0040	45	00	C4	8E	21	00	00	1E	1B	21	50	A0	51	00	1E	30
0050	48	88	35	00	BC	86	21	00	00	1C	00	00	00	FD	00	39
0060	4B	1F	54	12	00	0A	20	20	20	20	20	20	20	00	00	FC
0070	00	4C	47	54	56	0A	20	20	20	20	20	20	20	20	20	5F
0080	02	03	22	F1	4D	02	11	01	03	12	13	04	14	05	1F	20
0090	22	10	23	09	57	07	83	01	00	00	67	03	0C	00	10	00
00A0	B8	2D	01	1D	00	72	51	D0	1E	20	6E	28	55	00	C4	8E
00B0	21	00	00	1E	01	1D	00	BC	52	D0	1E	20	B8	28	55	40
00C0	C4	8E	21	00	00	1E	01	1D	80	D0	72	1C	16	20	10	2C
00D0	25	80	C4	8E	21	00	00	9E	8C	0A	D0	90	20	40	31	20
00E0	0C	40	55	00	C4	8E	21	00	00	18	02	3A	80	D0	72	38
00F0	2D	40	10	2C	45	00	BC	88	21	00	00	18	00	00	00	15

(4) HDMI 3

Addr	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
0000	00	FF	FF	FF	FF	FF	FF	00	1E	6D	DD	C3	01	01	01	01
0010	03	12	01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25
0020	11	49	4B	A1	08	00	31	40	45	40	61	40	81	80	90	40
0030	D1	C0	01	01	01	01	02	3A	80	18	71	38	2D	40	58	2C
0040	45	00	C4	8E	21	00	00	1E	1B	21	50	A0	51	00	1E	30
0050	48	88	35	00	BC	86	21	00	00	1C	00	00	00	FD	00	39
0060	4B	1F	54	12	00	0A	20	20	20	20	20	20	20	00	00	FC
0070	00	4C	47	54	56	0A	20	20	20	20	20	20	20	20	20	5F
0080	02	03	22	F1	4D	02	11	01	03	12	13	04	14	05	1F	20
0090	22	10	23	09	57	07	83	01	00	00	67	03	0C	00	30	00
00A0	B8	2D	01	1D	00	72	51	D0	1E	20	6E	28	55	00	C4	8E
00B0	21	00	00	1E	01	1D	00	BC	52	D0	1E	20	B8	28	55	40
00C0	C4	8E	21	00	00	1E	01	1D	80	D0	72	1C	16	20	10	2C
00D0	25	80	C4	8E	21	00	00	9E	8C	0A	D0	90	20	40	31	20
00E0	0C	40	55	00	C4	8E	21	00	00	18	02	3A	80	D0	72	38
00F0	2D	40	10	2C	45	00	BC	88	21	00	00	18	00	00	00	15

Each PCB assembly must be checked by check JIG set.  
(Because power PCB Assembly damages to PDP Module,  
especially be careful)

\* Press the POWER ON KEY on R/C before Model name download.  
Before adjusting White-balance, the AV ADC should be done.  
If ADC status were "NG", Need to ADC adjustment.

## 8. POWER PCB Assy Voltage Adjustments (Va, Vs Voltage adjustments)

### 8-1. Test Equipment : D.M.M. 1EA

### 8-2. Connection Diagram for Measuring

: refer to Fig.1

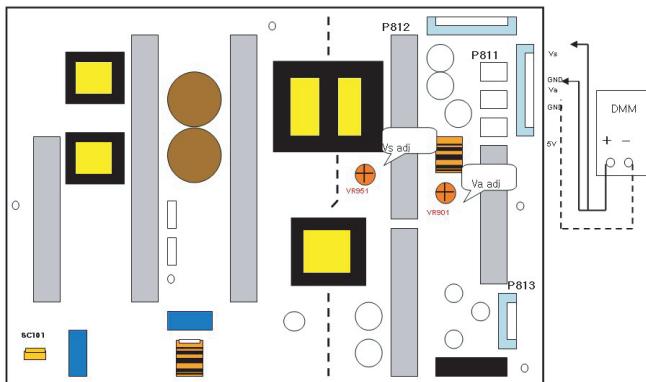
### 8-3. Adjustment Method

#### (1) Va Adjustment

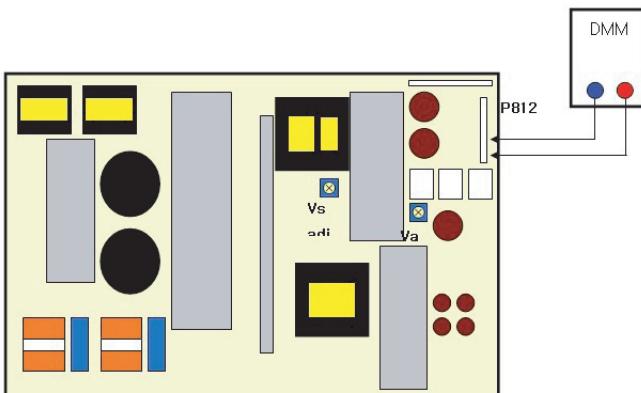
- 1) After receiving 100% Full White Pattern, HEAT RUN.
- 2) Connect + terminal of D.M.M to Va pin of P811, connect - terminal to GND pin of P811.
- 3) After turning VR901, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation;  $\pm 0.5V$ )

#### (2) Vs Adjustment

- 1) Input signal : RF noise signal.
- 2) Connect + terminal of D.M.M to Vs pin of P811, connect - terminal to GND pin of P811.
- 3) After turning VR951, voltage of D.M.M adjustment as same as Vs voltage which on label of panel right/top. (Deviation;  $\pm 0.5V$ )



(Fig.1) Connection diagram of power adjustment for measuring



(Fig.2) 50" Full HD Power PCB Assy Voltage adjustment

## 9. Adjustment of White Balance

### 9-1. Required Equipment

- (1) Color Analyzer : CA-1000, CA-100+(CH.10) CA-210(CH.10).
  - \* Please adjust CA-100+/CA-210 by CS-1000 before measuring.
  - > You should use Channel 10 which is Matrix compensated(White, Red, Green, Blue revised) by CS-1000 and adjust in accordance with balance adjustment coordinate.

- ◆ Color temperature standards according to CSM and Module.

CSM	PLASMA	Remark
Cool	11000K	
Normal	9300K	
Warm	6500K	

- ◆ Change target luminance and range of the Auto adjustment W/B equipment.

Target luminance	65
Range	20

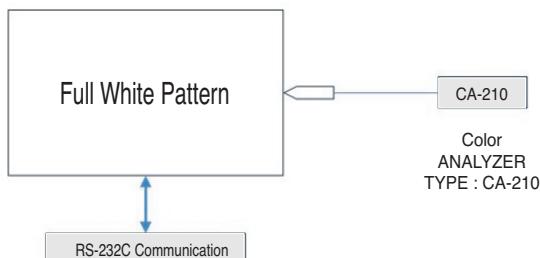
- ◆ White balance adjustment coordinate and color temperature.

	CS-1000	CA-100+(CH.10)	CA-210(CH.10)
X	0.276	0.276 $\pm$ 0.002	0.276 $\pm$ 0.002
y	0.283	0.283 $\pm$ 0.002	0.283 $\pm$ 0.002
$\Delta_{uv}$	0.000	0.000	0.000
Medium	CS-1000	CA-100+(CH.10)	CA-210(CH.10)
X	0.285	0.285 $\pm$ 0.002	0.285 $\pm$ 0.002
y	0.293	0.293 $\pm$ 0.002	0.293 $\pm$ 0.002
$\Delta_{uv}$	0.000	0.000	0.000
Warm	CS-1000	CA-100+(CH.10)	CA-210(CH.10)
X	0.313	0.313 $\pm$ 0.002	0.313 $\pm$ 0.002
y	0.329	0.329 $\pm$ 0.002	0.329 $\pm$ 0.002
$\Delta_{uv}$	0.003	0.003	0.003

\* PC(for communication through RS-232C)  
-> UART Baud rate : 115200 bps

## 9-2. Connection Picture of the Measuring Instrument(On Automatic control)

(1) Inside PATTERN is used when W/B is controlled. Connect to auto controller or push control R/C IN-START -> Enter the mode of White-Balance, the pattern will come out.



(Fig.3) Auto AV(CVBS) Color Balance Test Pattern

## 9-3. Auto-control interface and directions

- (1) Adjust in the place where the influx of light like floodlight around is blocked.(illumination is less than 10ux)
- (2) Measure and adjust after sticking the Color Analyzer(CA-100+, CA210) to the side of the module.
- (3) Aging time
  - After aging start, keep the power on(no suspension of power supply) and heat-run over 15minutes.
  - keep white pattern using inside pattern.

### ■ Auto adjustment Map(RS-232C)

	RS-232C COMMAND [CMD ID DATA]			Min	CENTER (DEFAULT)			MAX
	Cool	Med	Warm		Cool	Med	Warm	
R Gain	jg	Ja	js	00	192	192	192	255
G Gain	jh	Jb	je	00	192	192	192	255
B Gain	ji	Jc	jf	00	192	192	192	255
R Cut					64	64	64	128
G Cut					64	64	64	128
B Cut					64	64	64	128

## 10. Adjustment of White Balance

- (1) Press ADJ KEY on R/C and enter EZ ADJUST.  
Select "3. Test Pattern" by using ▲/▼(CH+/-) and press ENTER(■)  
Select "White" by using ◀/▶(VOL+/-) and press ENTER(■)  
and heat run over 15minutes.
- (2) Zero Calibrate CA-100+/CA-210, and when controlling, stick the sensor to the center of PDP module.
- (3) Press ADJ KEY on R/C and enter EZ ADJUST.  
Select "2. White Balance" and press ▶(VOL +).  
Set test-pattern on and display inside pattern.
- (5) Control is carried out on three color temperatures, COOL, MEDIUM,WARM.  
(Control is carried out three times)

### <Temperature : COOL>

- R-Cut / G-Cut / B-Cut is set to 64
- Control R-Gain and G-Gain.
- Each Gain is limited to 192.

### <Temperature : MEDIUM>

- R-Cut / G-Cut / B-Cut is set to 64
- Control R-Gain and G-Gain.
- Each Gain is limited to 192.

### <Temperature : WARM>

- R-Cut / G-Cut / B-Cut is set to 64
- Control G-Gain and B-Gain.
- Each Gain is limited to 192.

## 11. Input the Shipping Option Data

- 1) Push the IN-START key in a Adjust Remocon.
- 2) Input the Option Number that was specified in the BOM, into the Shipping area.
- 3) The work is finished, Push ■ Key.

## 12. Set Information (Serial No& Model name)

### 12-1. Check the serial number & Model Name

- (1) Push the menu button in DTV mode.
- (2) Select the SETUP -> Diagnostics -> To set.
- (3) Check the information.

## 13. SET factoring condition

- (1) This adjustment is setting factory shipment mode.  
(2) Push the IN-STOP key of adjustment remote controller before the factory shipment.

No	Item		Condition	Remark
1	Input Mode		Antenna	
2	Volume Level		10	
3	Mute		Off	
4	Aspect Ratio		16:9	
5	SET ID		1	
6	Picture	PSM		Vivid
		Color Temp.		Medium
		Advanced	Cinema	Off
			Black level	Auto
7	Sound	SSM		Standard
		AVL		Off
		Balance		0
		TV Speaker		On
8	Time	Auto Clock		On
		Manual Clock		--
		Off Timer / On Timer		Off
		Sleep Timer / Auto Off		
9	Option	SIMPLINK		On
		Key Lock		Off
		ISM Method		Normal
		Power Saving		Level 0
10	Channel Memory	Analog		
		Digital		

# TROUBLE SHOOTING GUIDE

## 1. Power Board

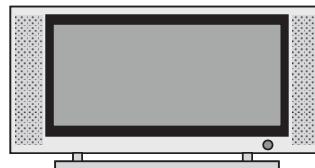
### 1-1. The whole flowchart which it follows in voltage output state



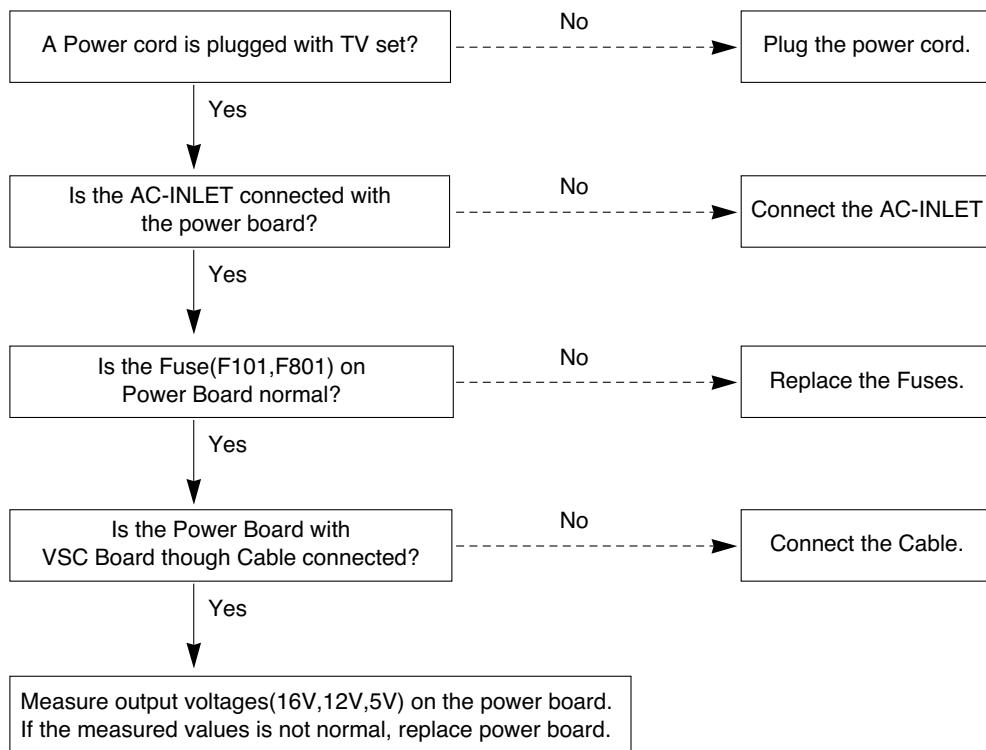
## 2. No Power

### (1) Symptom

- 1) Doesn't minute discharge at module.
- 2) Non does not come in into the front LED.



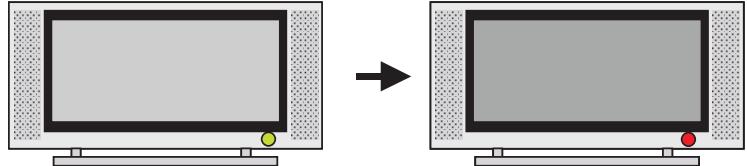
### (2) Check following



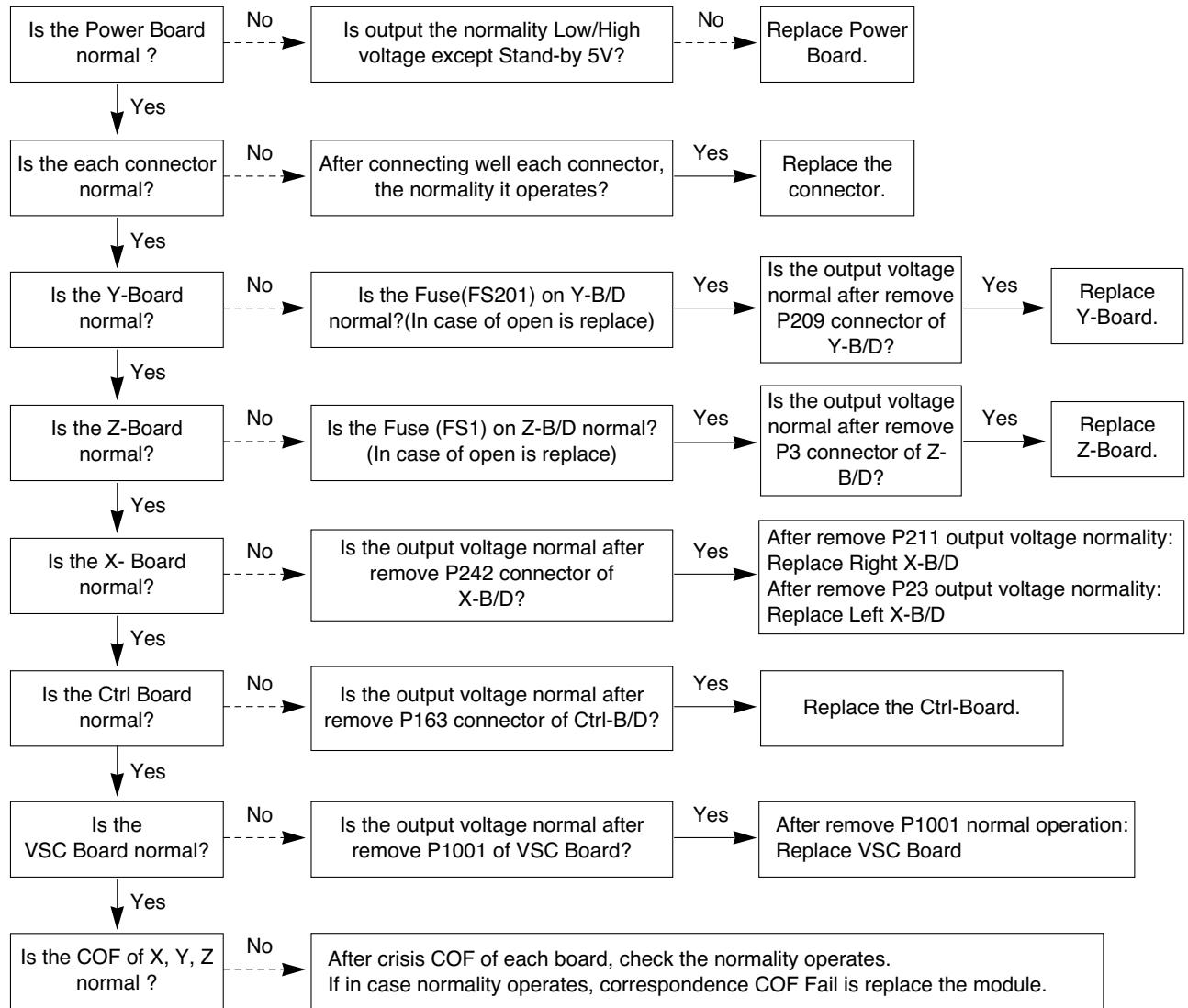
### 3. Protect Mode

#### (1) Symptom

- 1) After once shining, it does not discharge minutely from module.
- 2) The Rely falls.(The sound is audible "click")
- 3) It is converted with the color where the front LED is red from green.



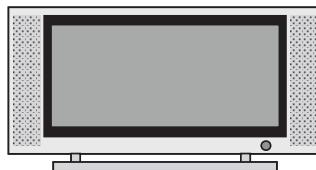
#### (2) Check following



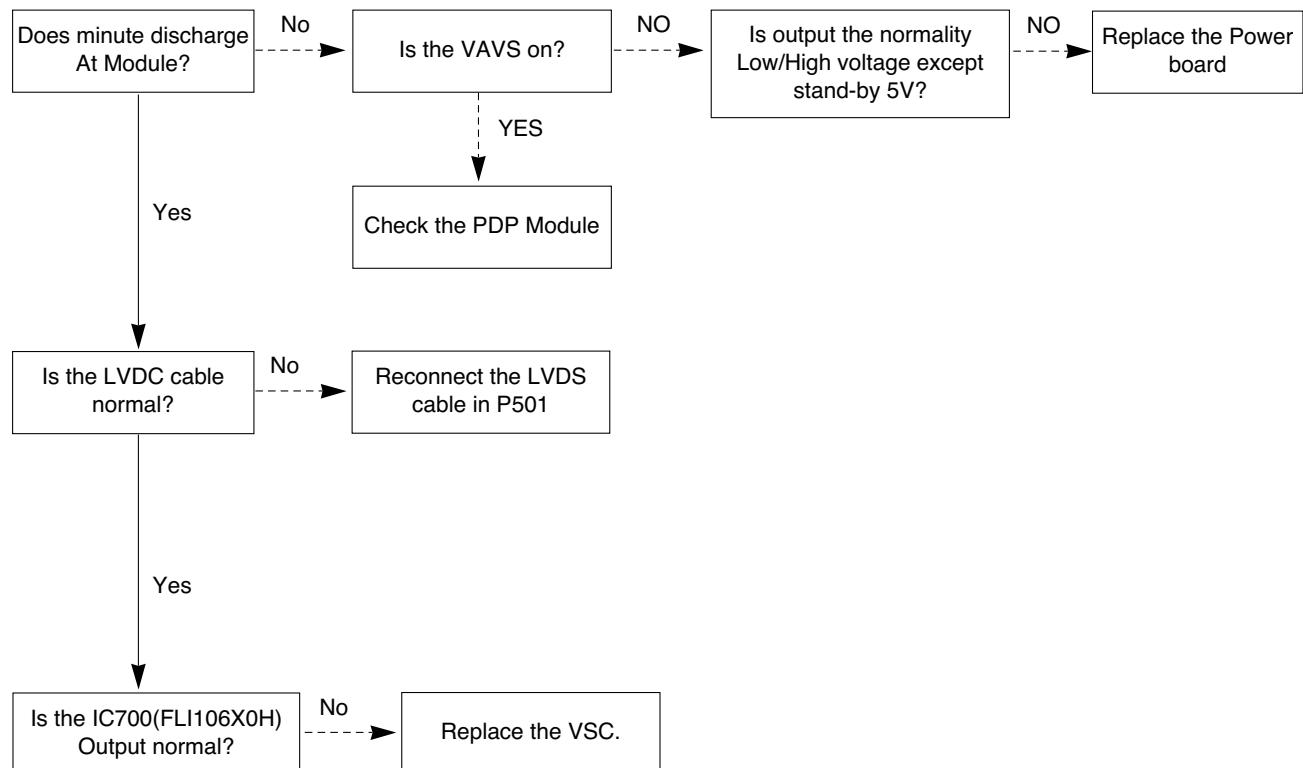
## 4. No Raster

### (1) Symptom

- 1) No OSD and image occur at screen.
- 2) It maintains the condition where the front LED is green.



### (2) Check following



## 5. In case of occurring strange screen into specific mode

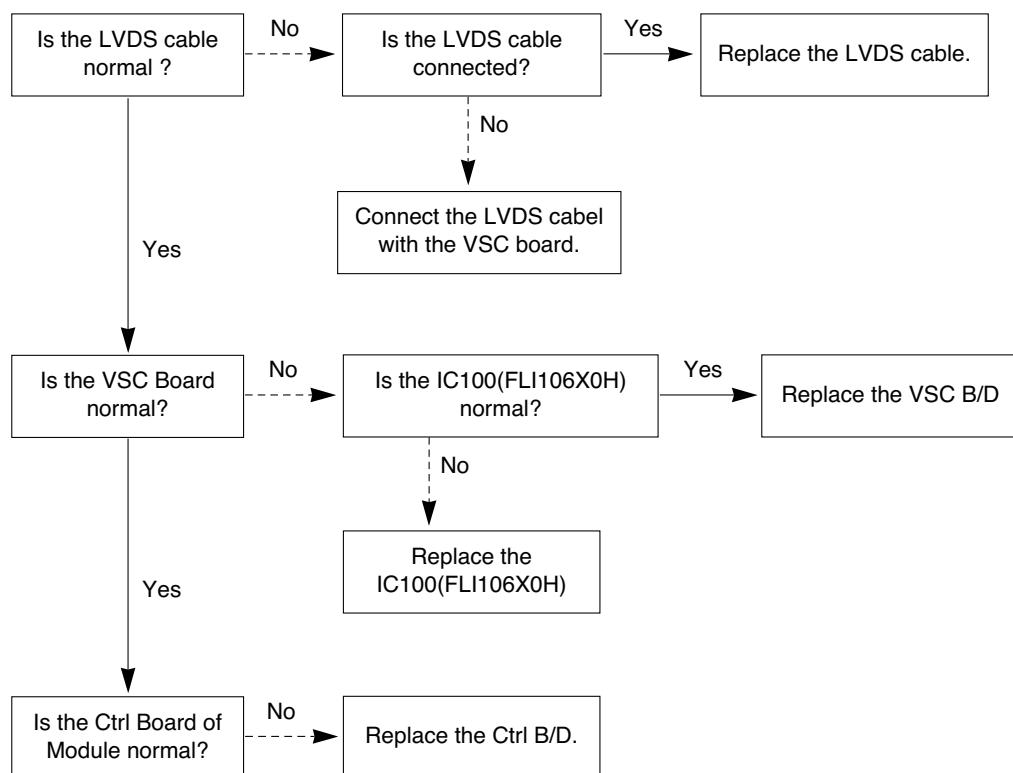
### 5-1. In case the OSD does not displayed

#### (1) Symptom

- 1) LED is green.
- 2) The minute discharged continuously becomes Accomplished from module.



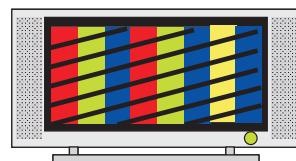
#### (2) Check following



## 5-2. In case of doesn't display the screen into specific mode

### (1) Symptom

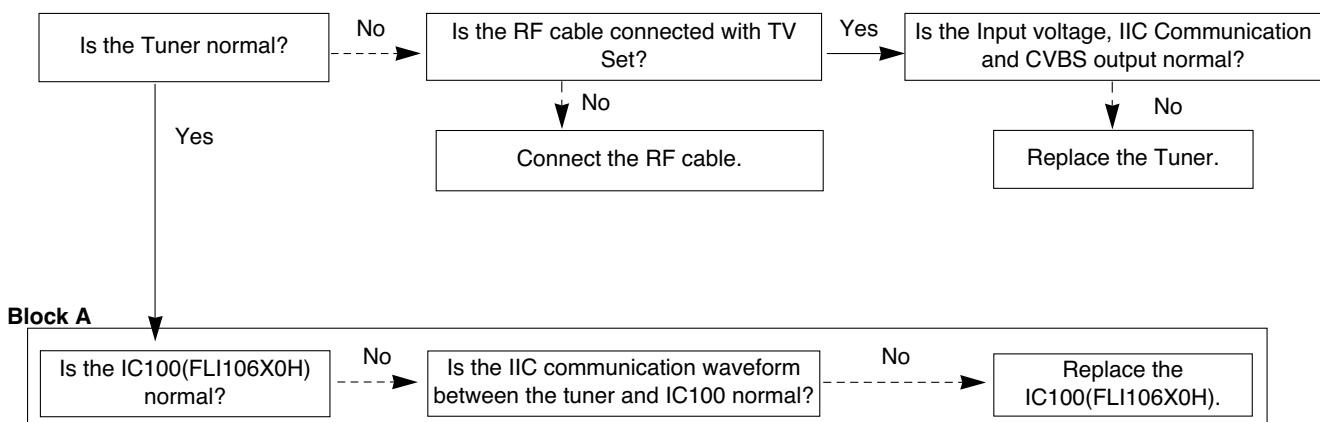
- 1) The screen does not become the display from specific input mode (RF, AV, Component, RGB, DVI).



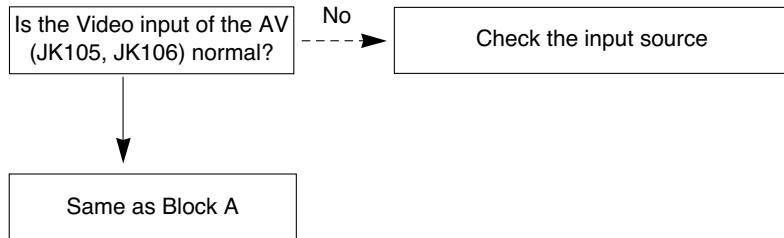
### (2) Check following

- 1) Check the all input mode should become normality display.

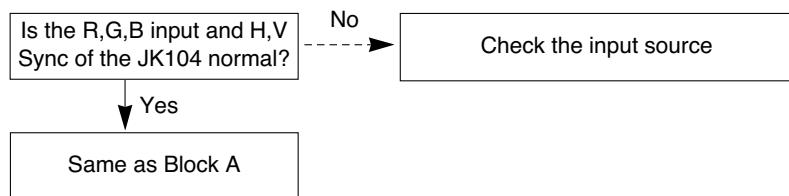
### (3) In case of becomes unusual display from RF mode



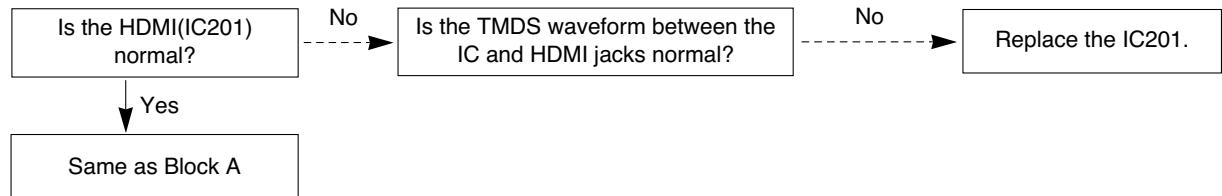
### (4) In the case of becomes unusual display from side S-video/AV mod



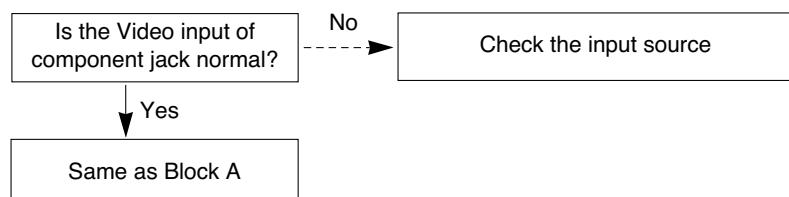
**(5) In the case of becomes unusual display from Component, RGB mode**



**(6) In the case of becomes unusual display from HDMI mode**



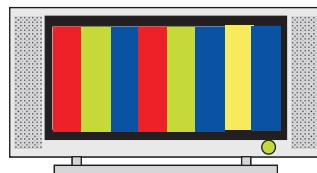
**(7) In the case of becomes unusual display from component mode**



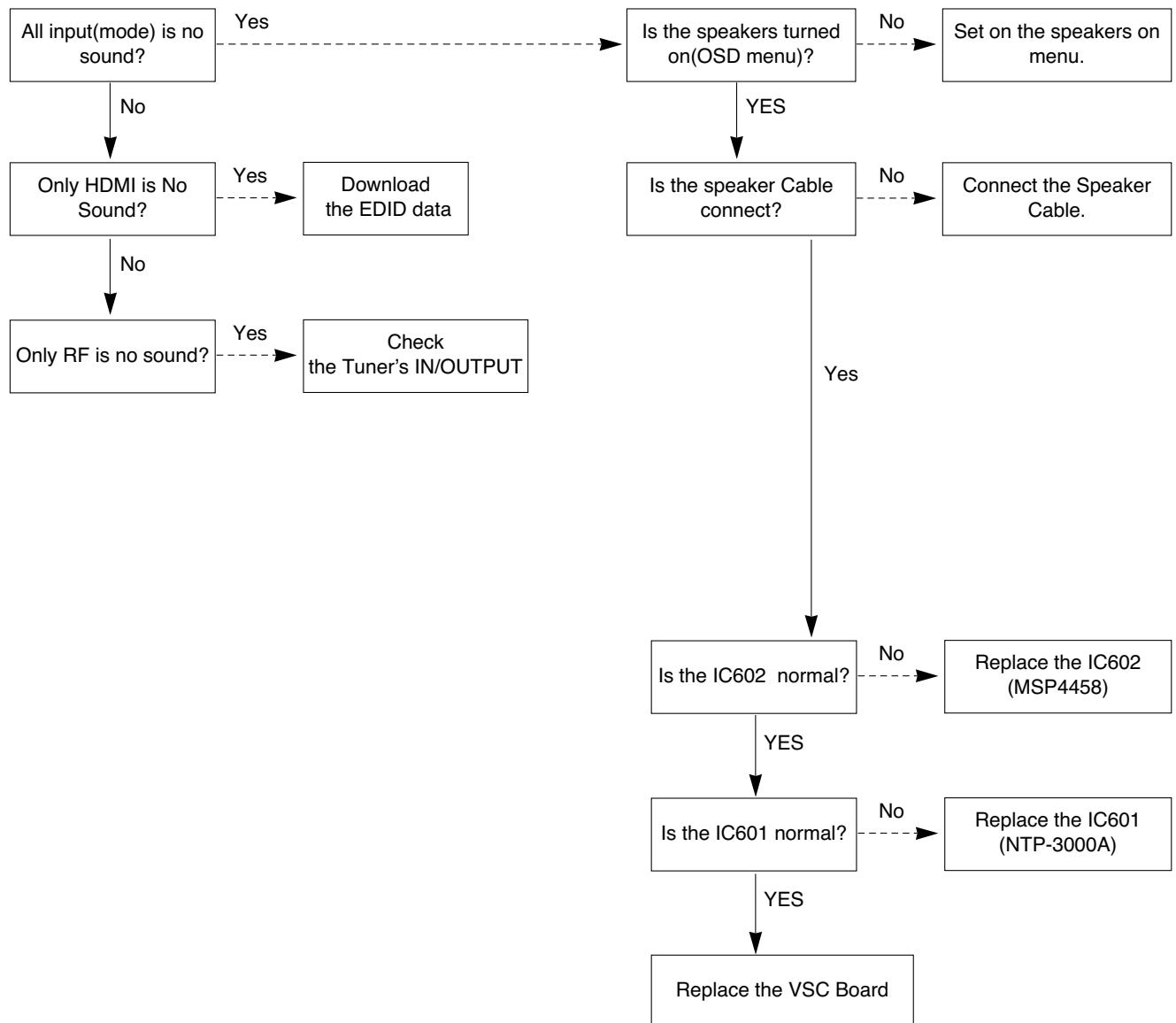
## 6. In case of no sound

### (1) Symptom

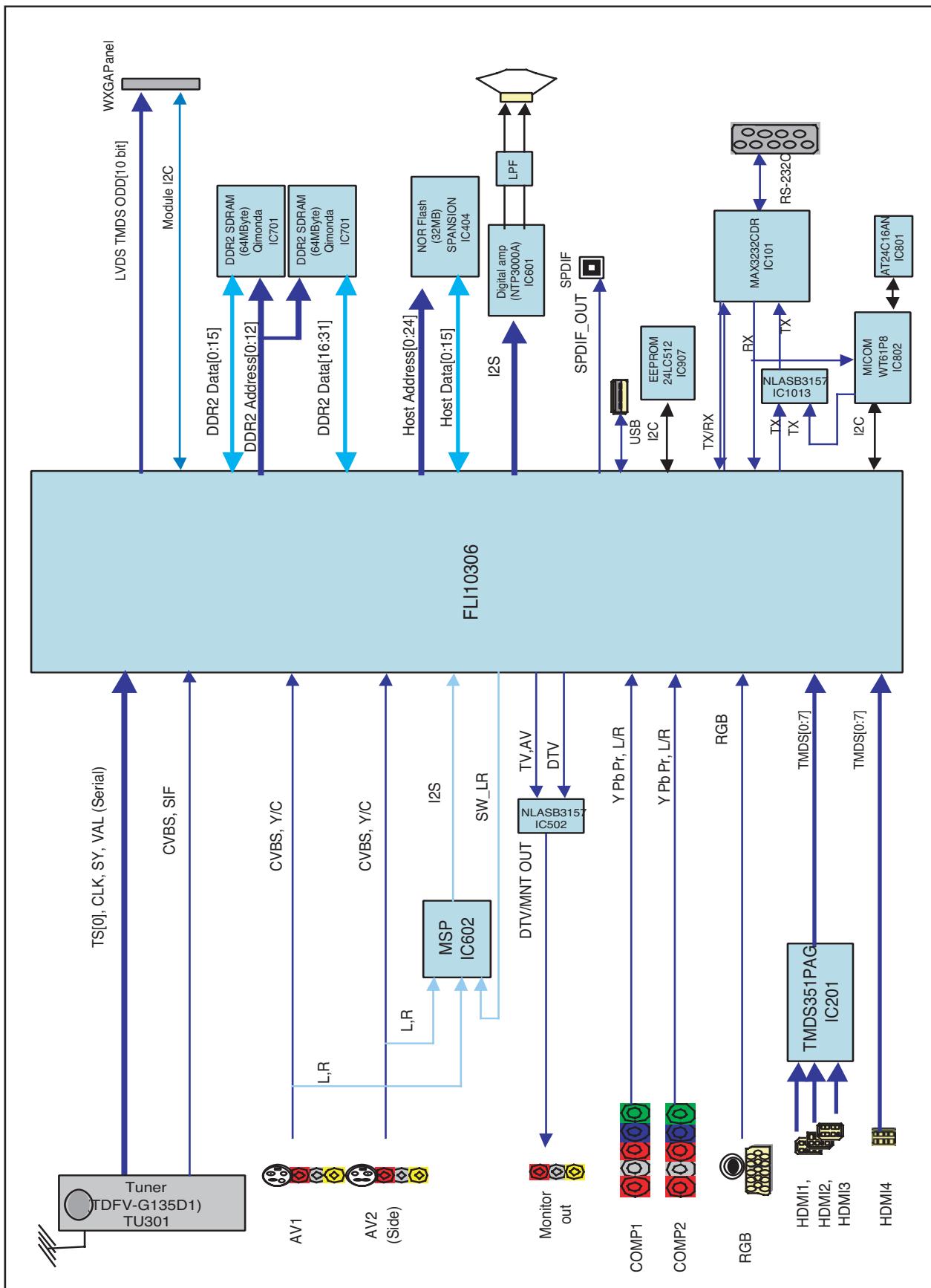
- 1) LED is Green.
- 2) Screen display but sound is not output.



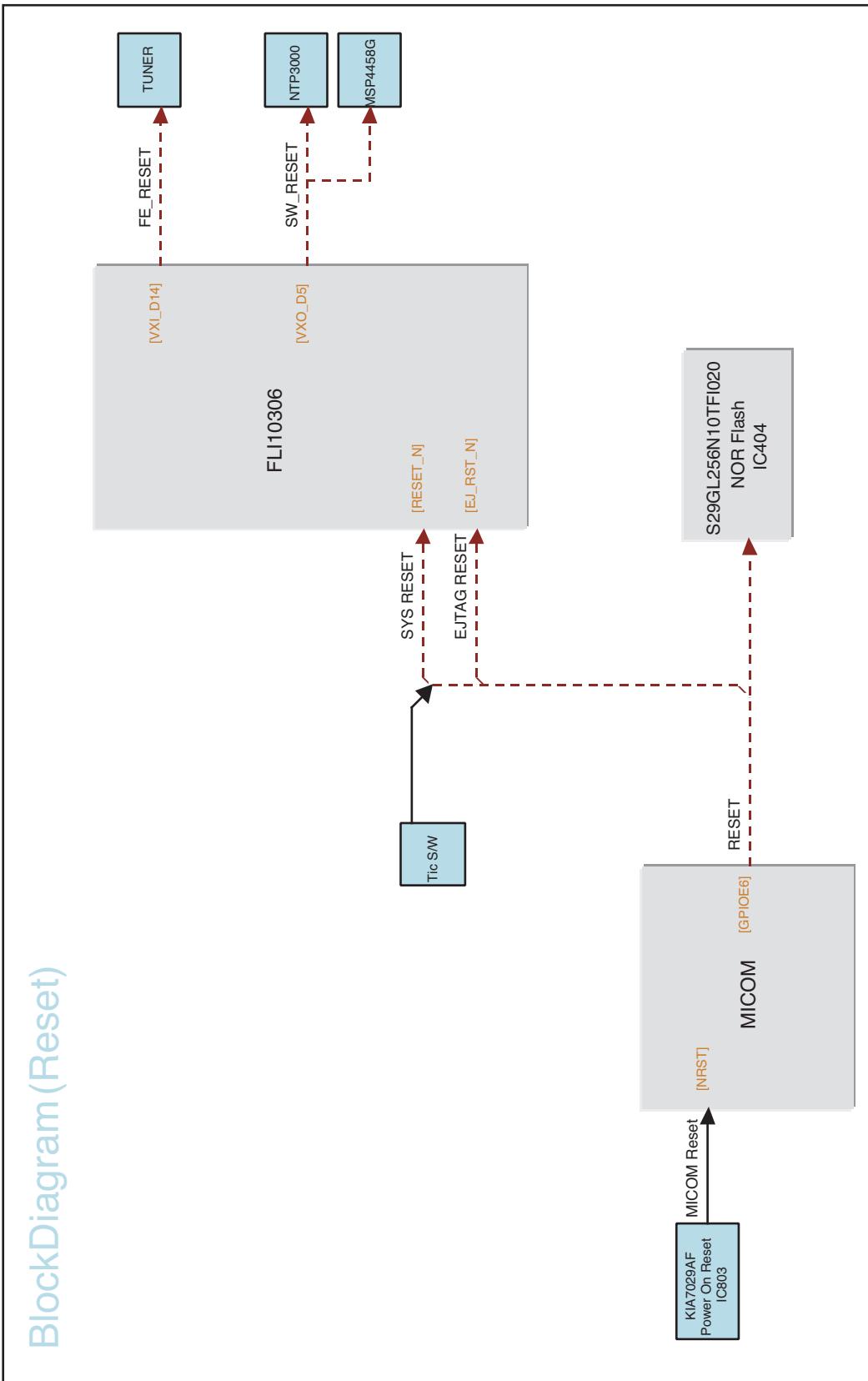
### (2) Check following



# BLOCK DIAGRAM

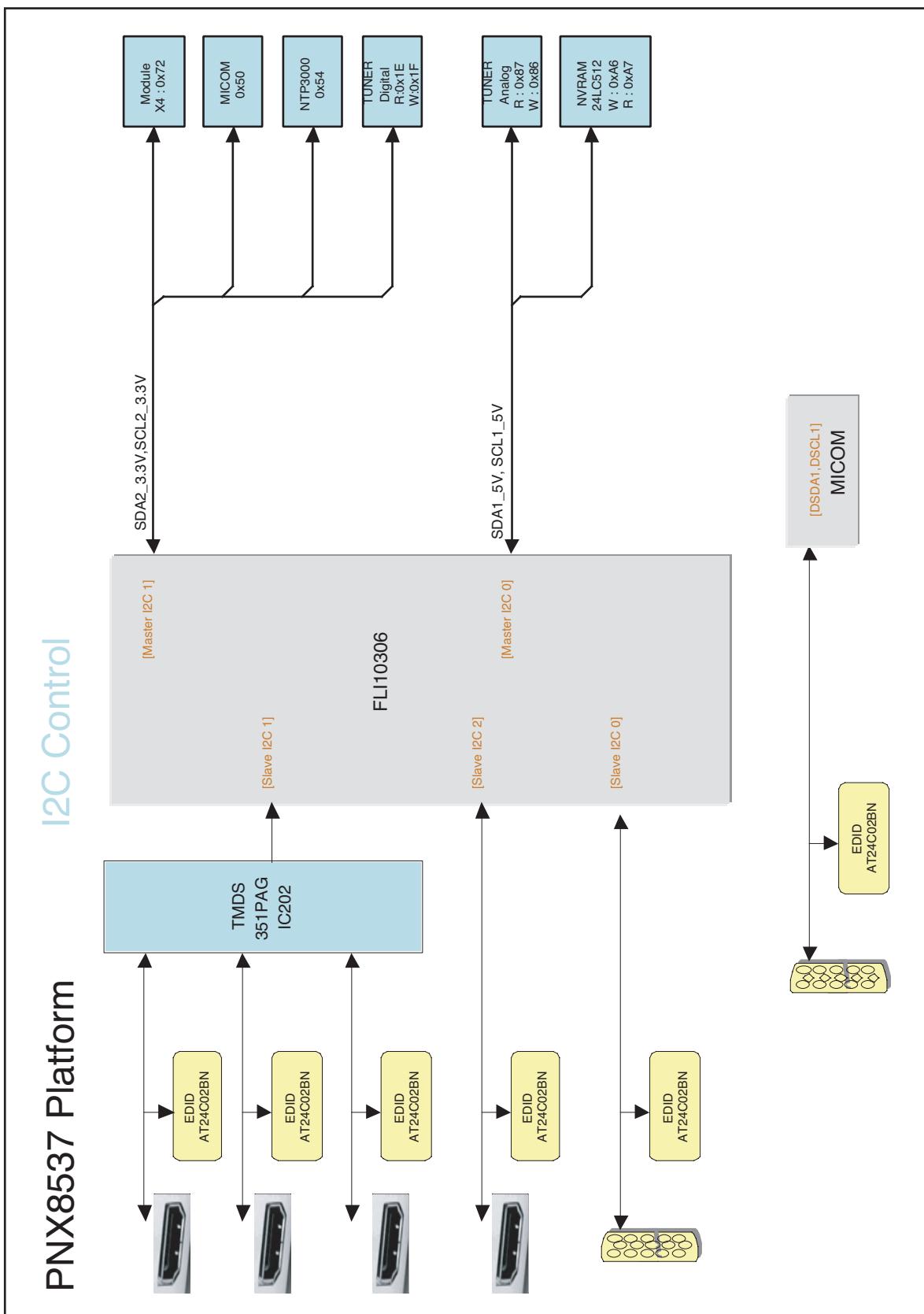


## BlockDiagram(Reset)

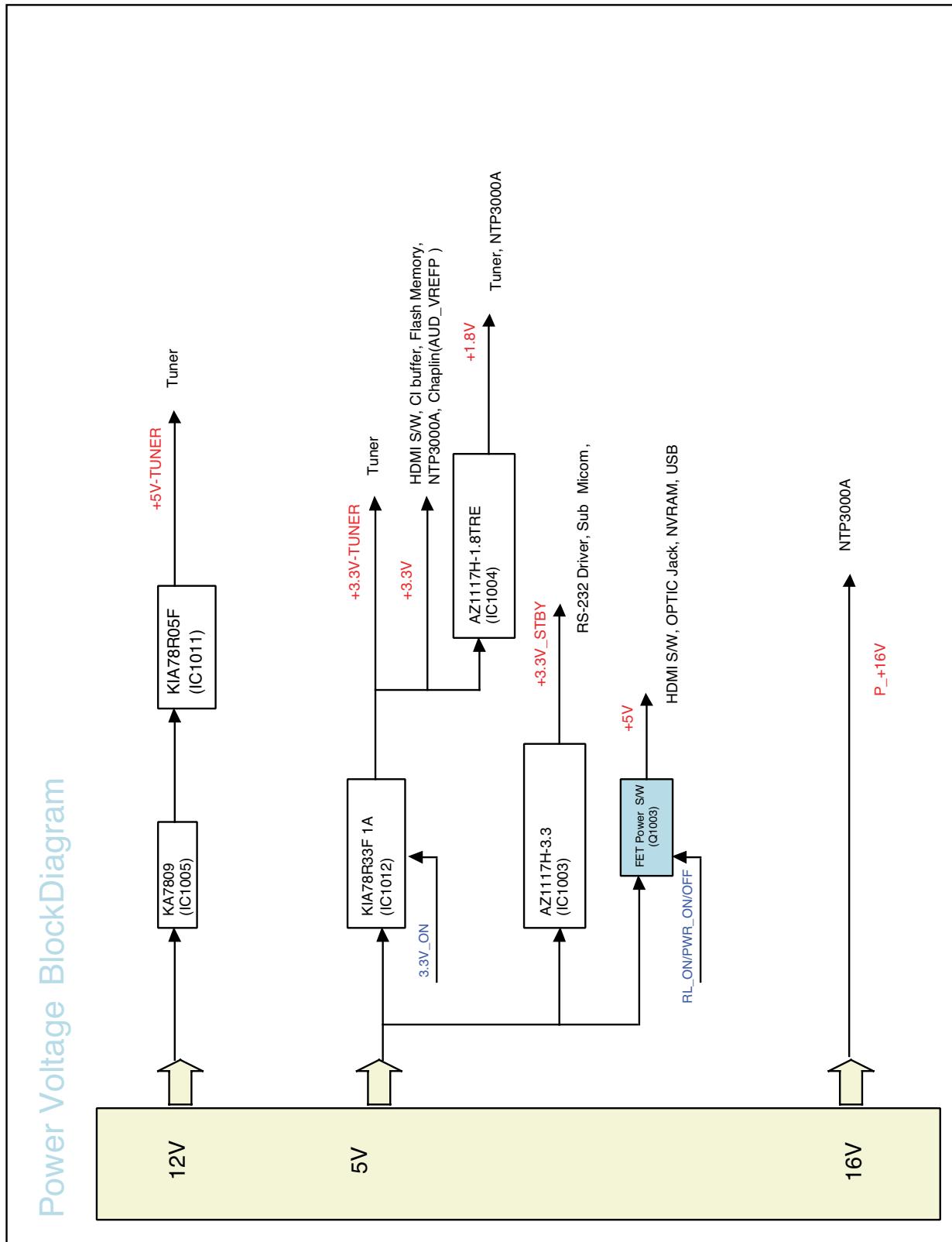


## PNX8537 Platform

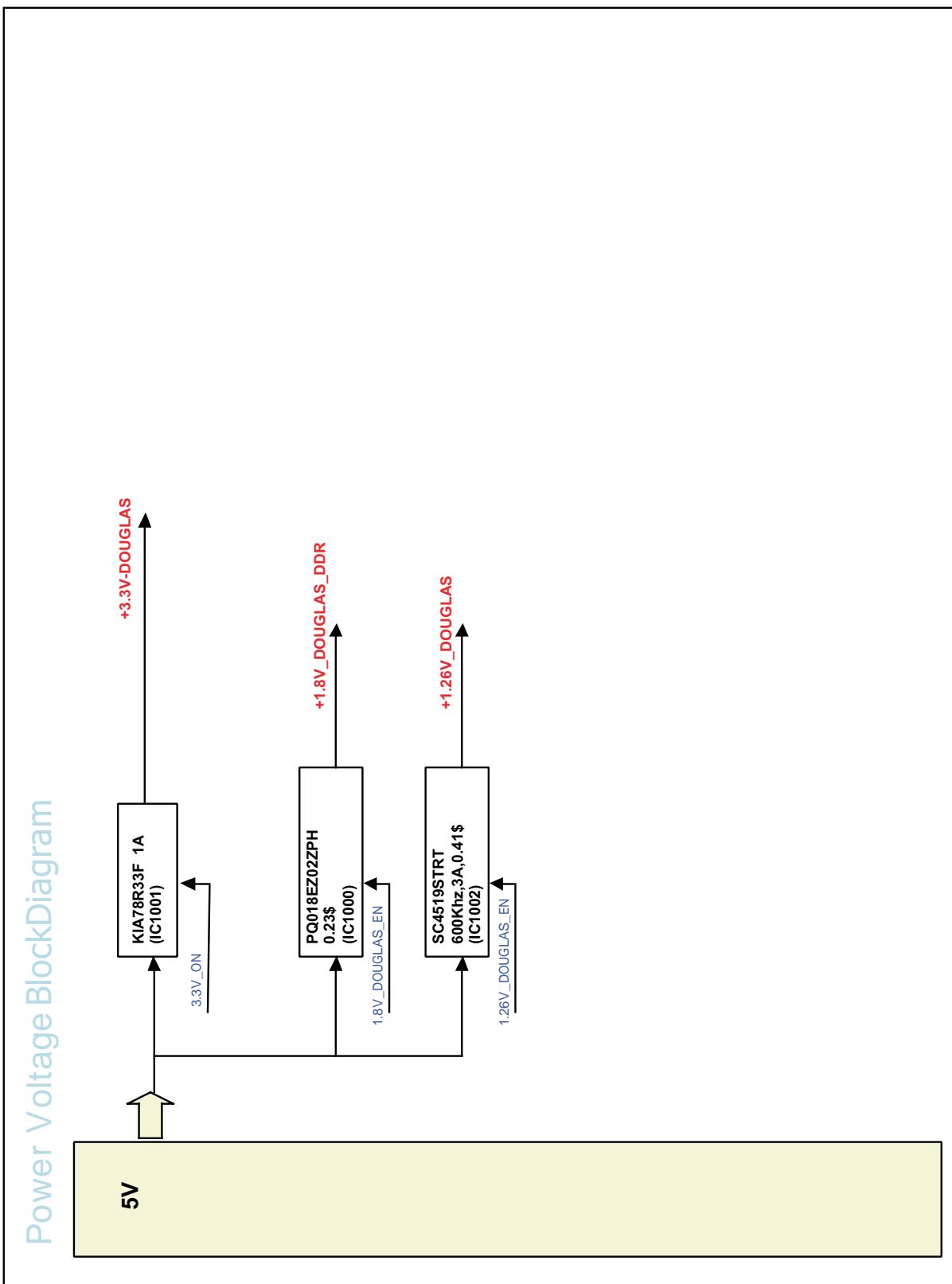
## I2C Control



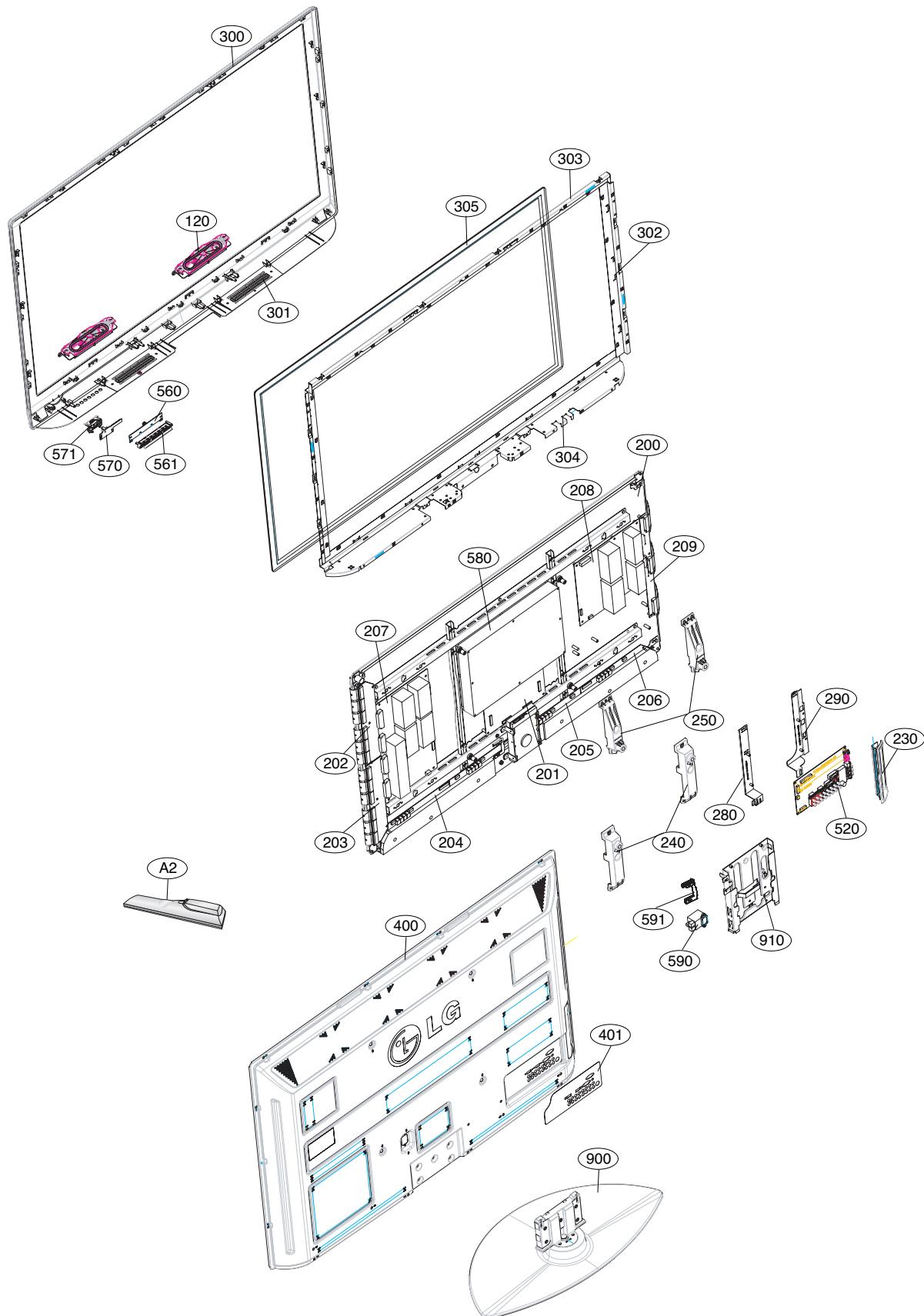
## Power Voltage BlockDiagram

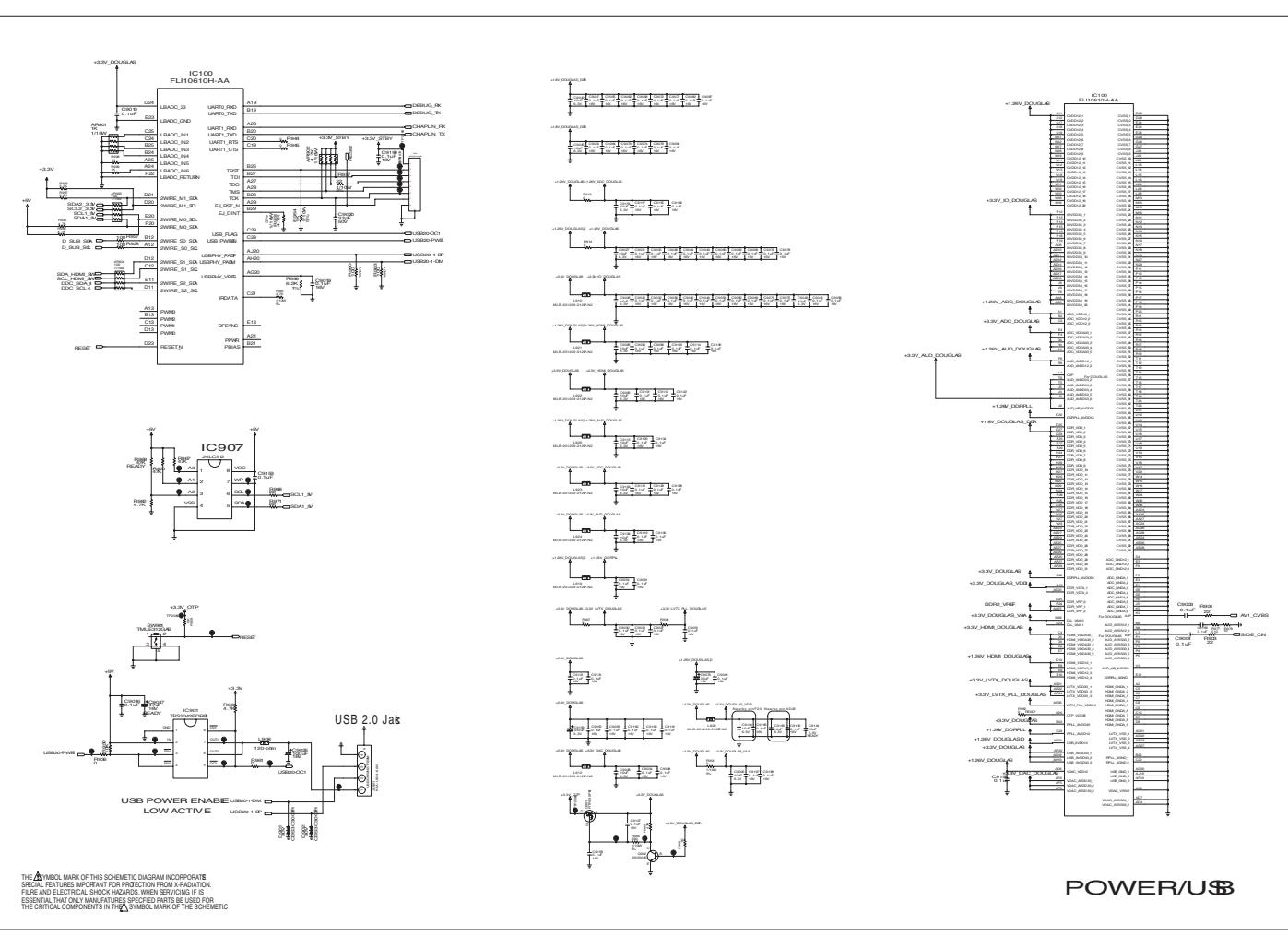
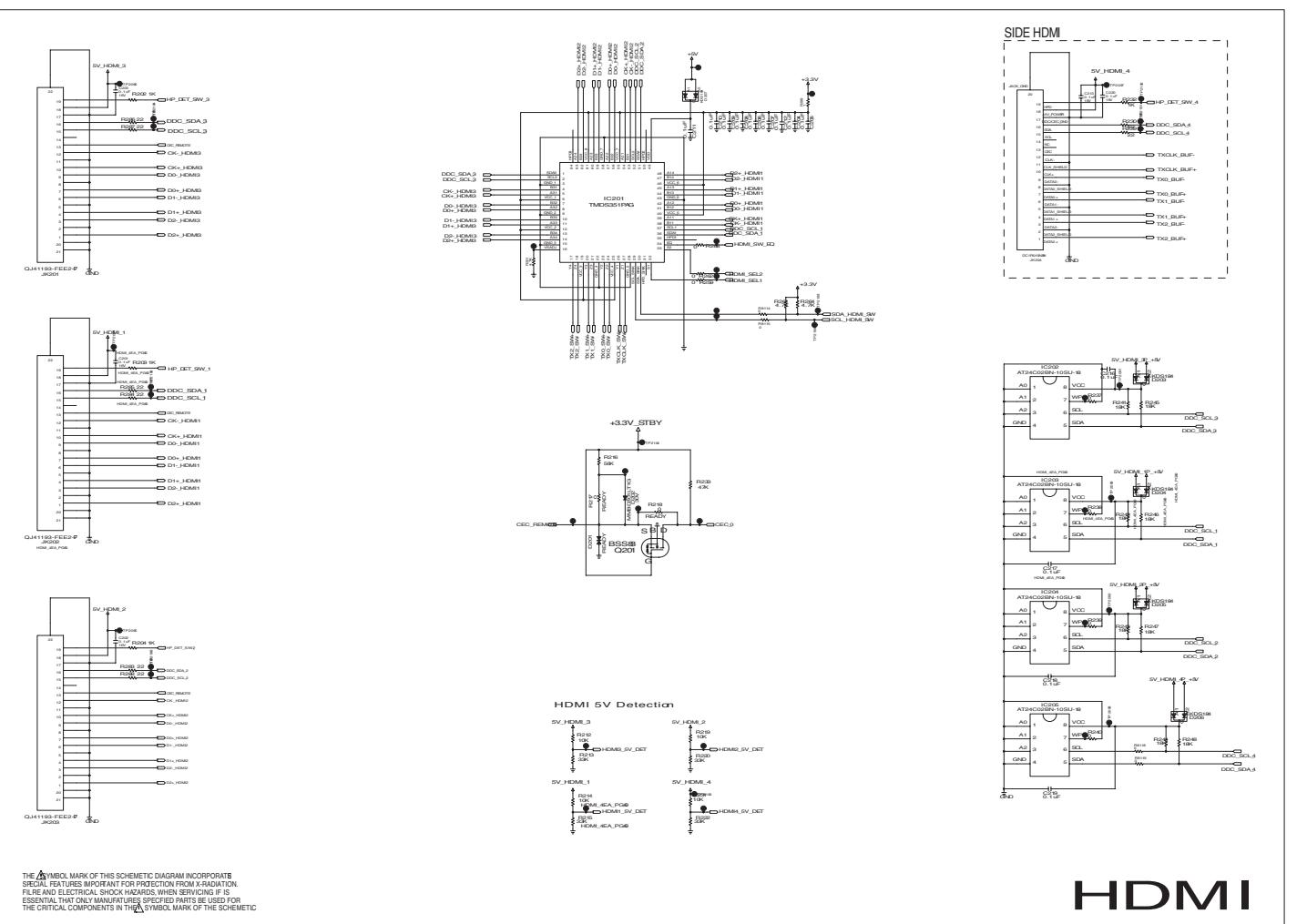
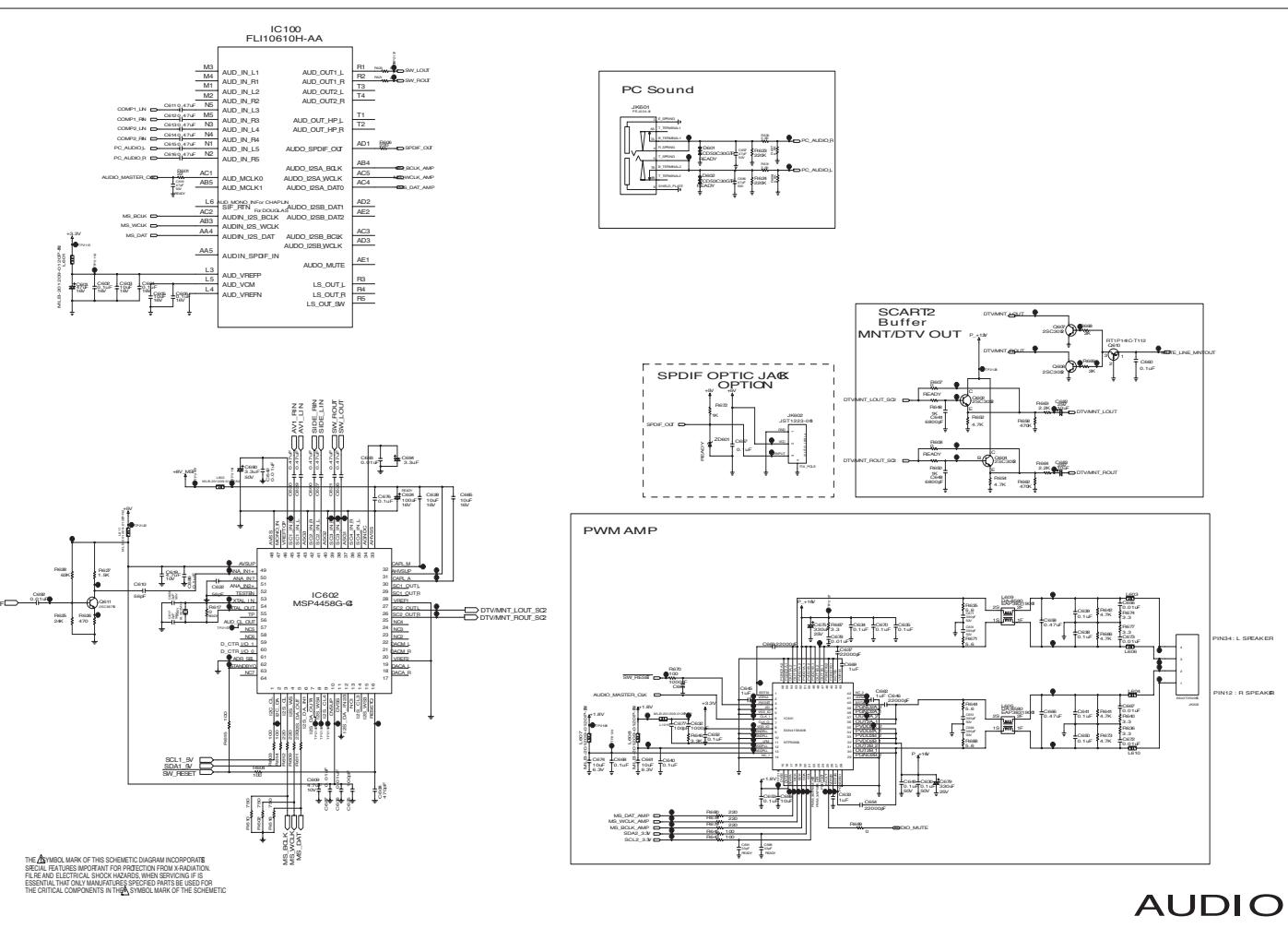
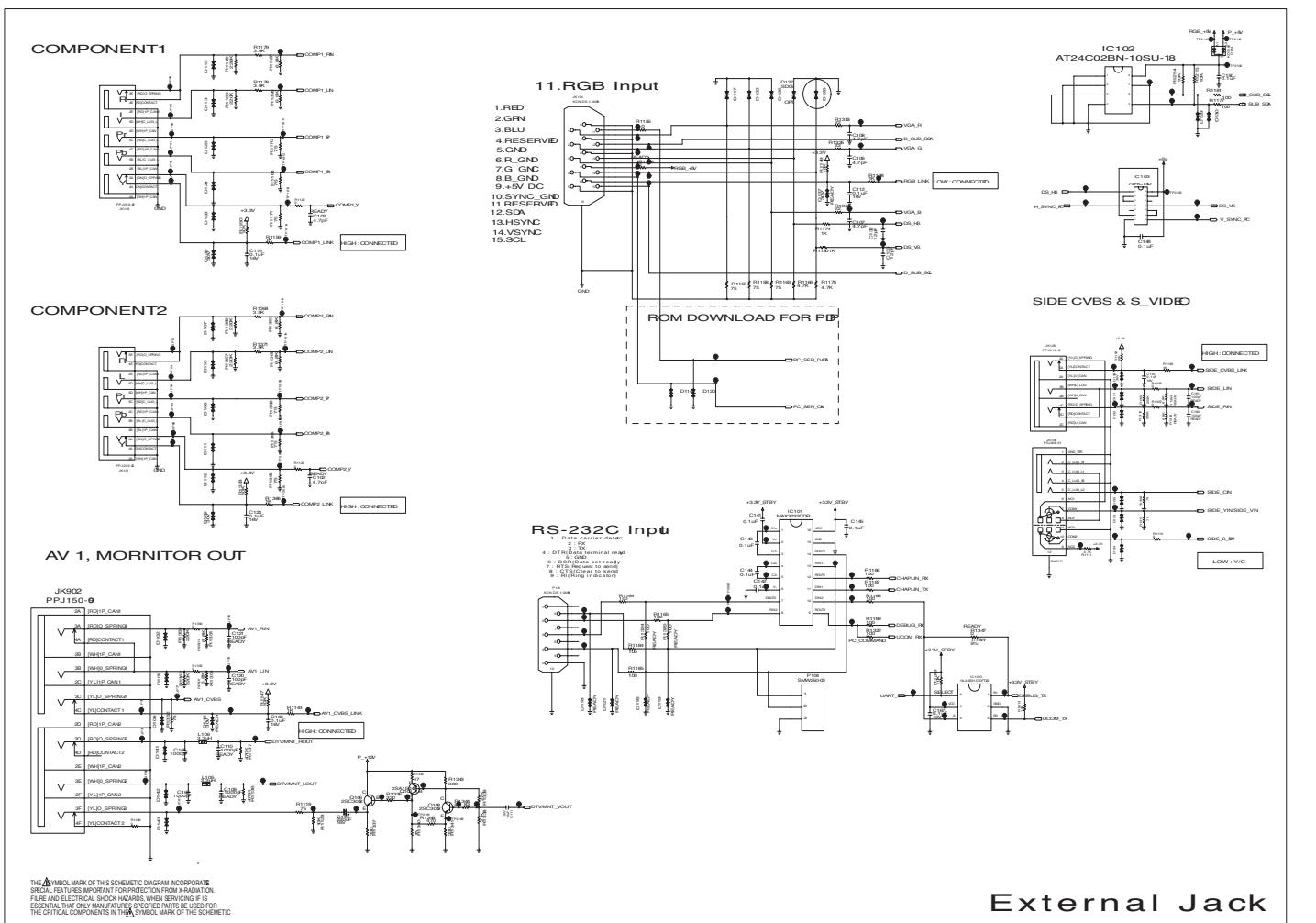


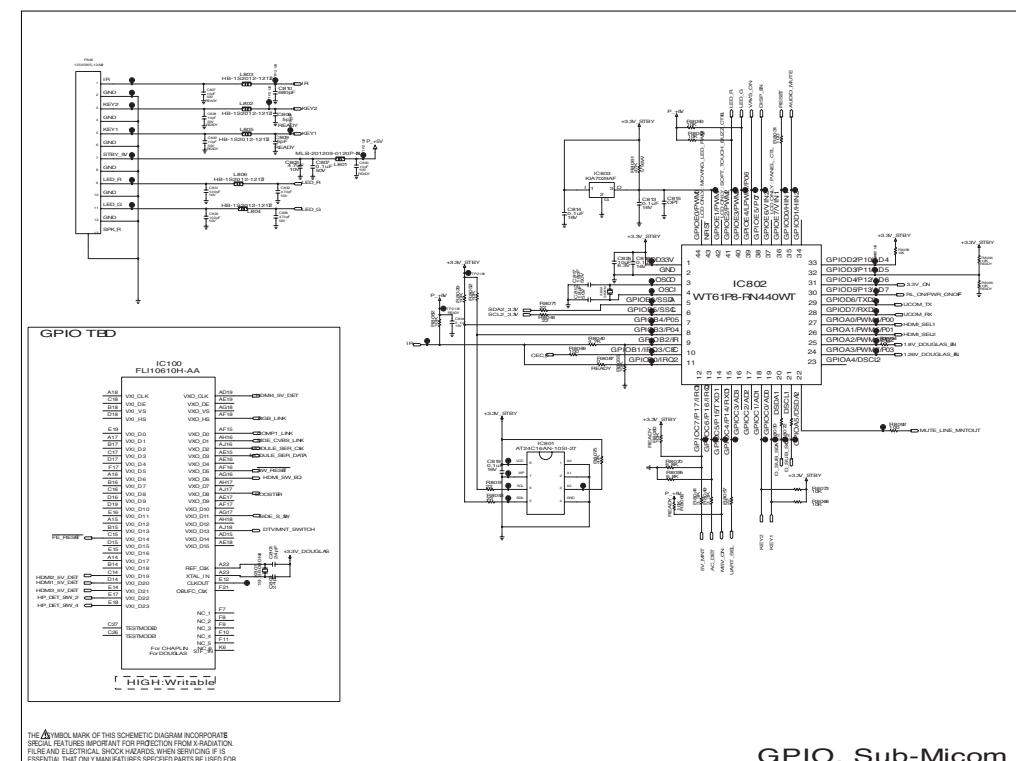
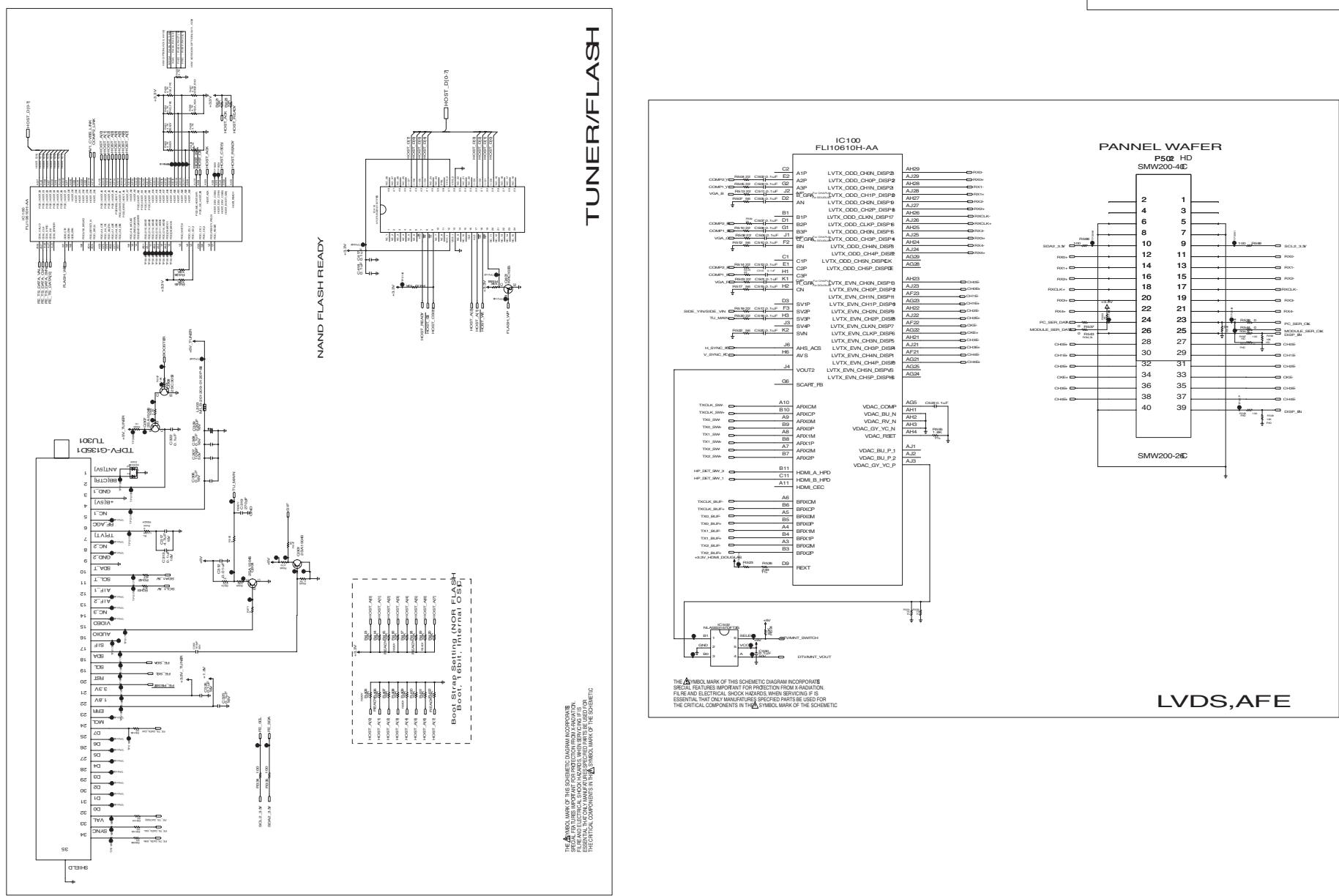
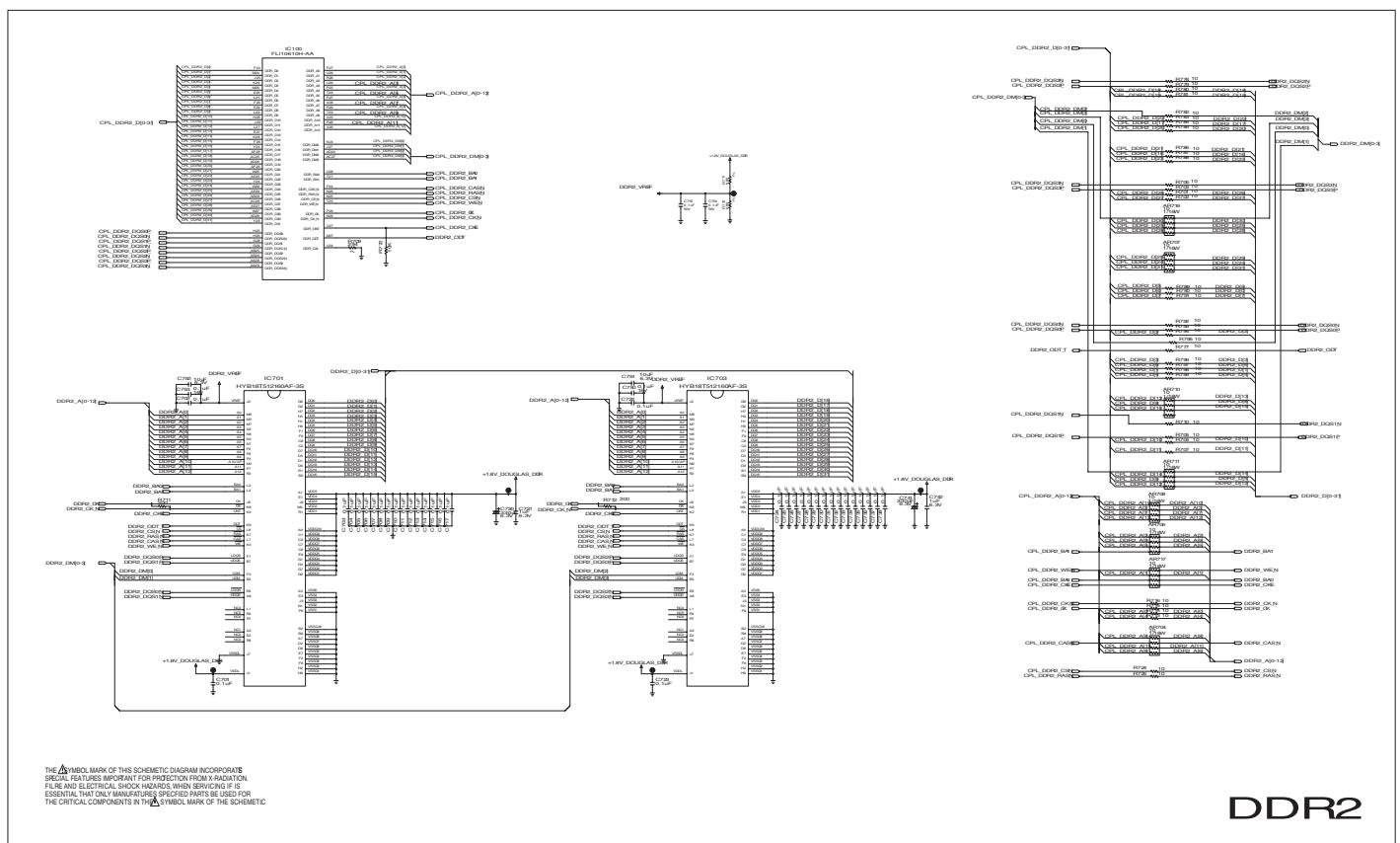
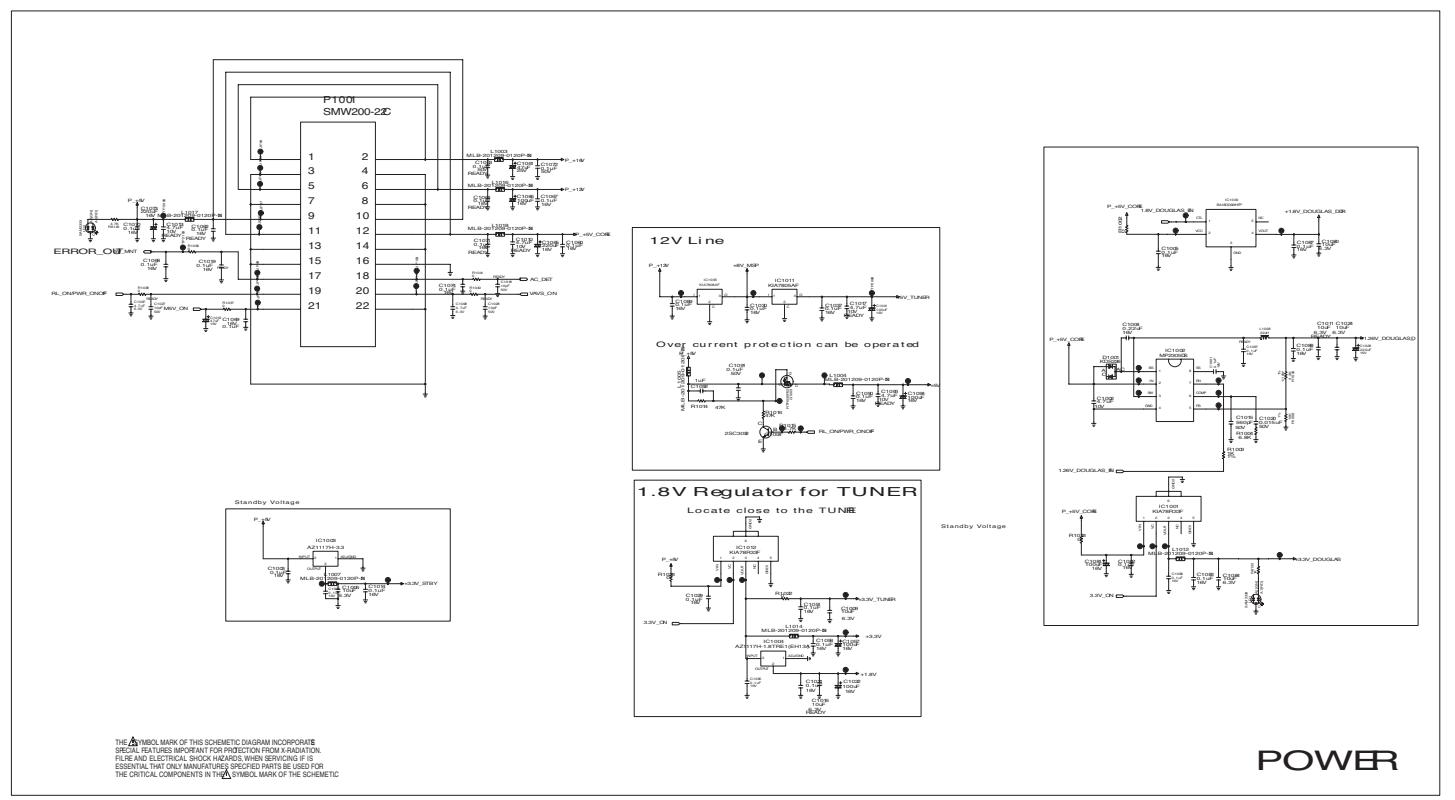
## Power Voltage BlockDiagram



## EXPLODED VIEW

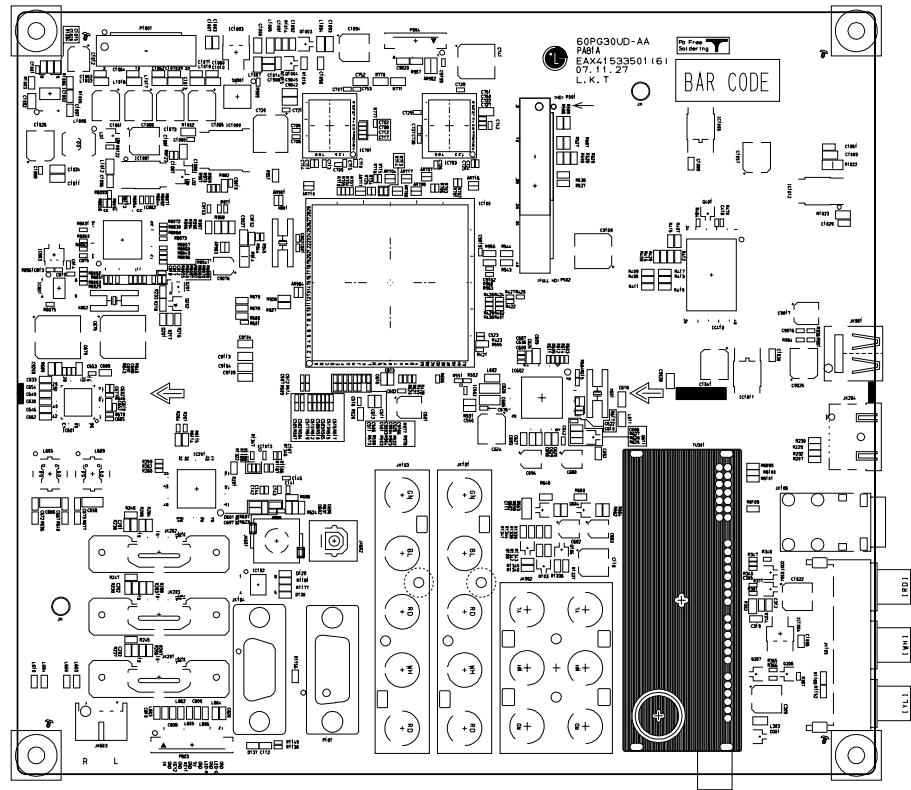




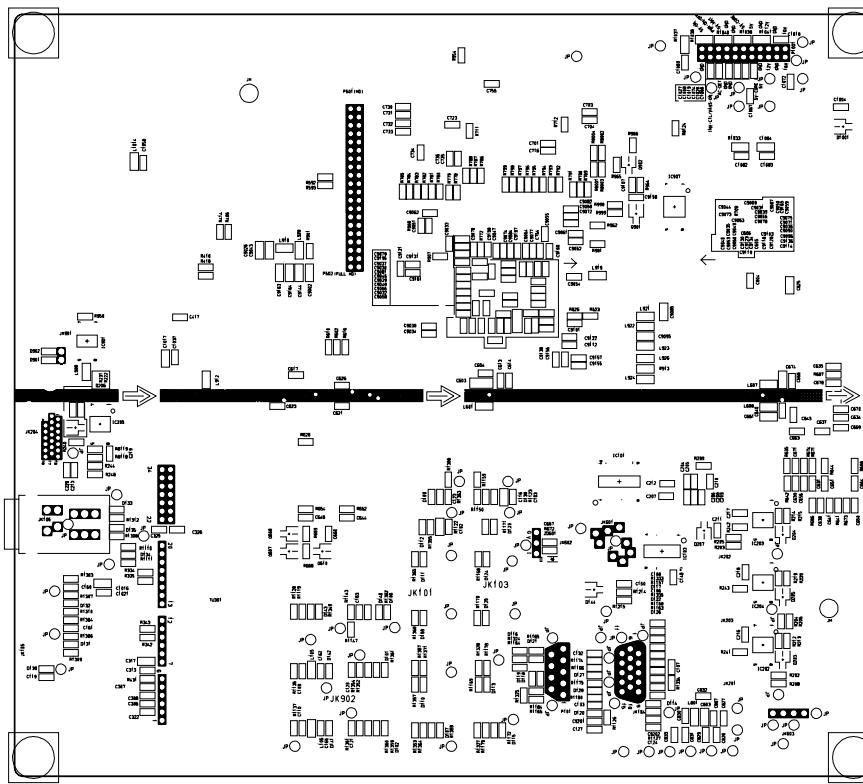


### PRINTED CIRCUIT BOARD

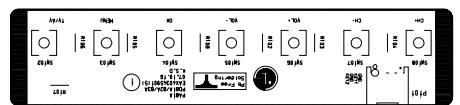
MAIN(TOP)



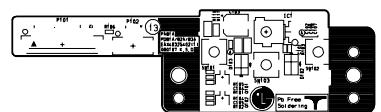
MAIN(BOTTOM)



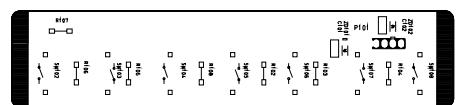
Control B/D(TOP)



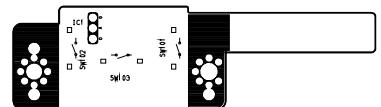
PREAMP B/D(TOP)



Control B/D(BOTTOM)



PREAMP B/D(BOTTOM)





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