

Service Manual

LED Television



Model No. TH-43E330M

3MS463LC7AP.02

Chassis

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Panasonic®

1. CAUTION

CAUTION:

Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.



CAUTION
RISK OF ELECTRIC
SHOCK DO NOT OPEN.



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, with an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the person.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

Read all of these instructions. Save these instructions for later use. Follow all Warnings and Instructions marked on the audio equipment.

1. Read Instructions-All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions- All operating and use instructions should be followed.

FOR YOUR PERSONAL SAFETY

1. When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
2. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
3. Do not allow anything to rest on or roll over the power cord, and do not place the TV where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
4. Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
5. Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television set.
6. If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
7. If liquid has been spilled into the television set, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
8. Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.
9. Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 10.1. Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 10.2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



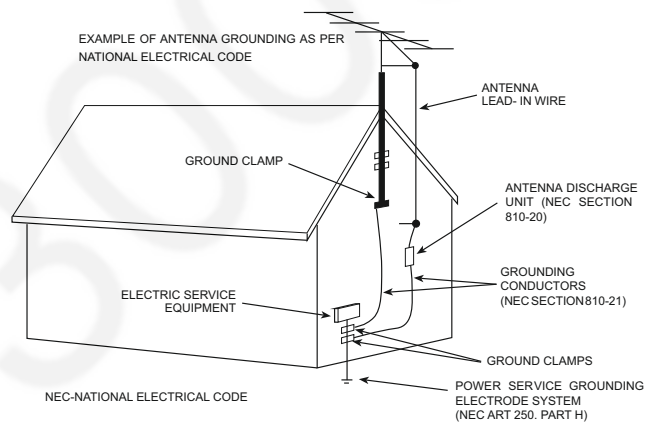
PROTECTION AND LOCATION OF YOUR SET

11. • Do not use this television set near water ... for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
 - Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing to qualified service personnel.
12. Choose a place where light (artificial or sunlight) does not shine directly on the screen.
13. Avoid dusty places, since piling up of dust inside TV chassis may cause failure of the set when high humidity persists.
14. The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, to protect it from overheating. These openings must not be blocked or covered.
 - Never cover the slots or openings with cloth or other material.
 - Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.
 - Never place the set near or over a radiator or heat register.
 - Never place the set in a "built-in" enclosure, unless proper ventilation is provided.

PROTECTION AND LOCATION OF YOUR SET

- 15.1. If an outside antenna is connected to the television set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrode, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS



15.2. Note to CATV system installer : (Only for the television set with CATV reception)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. For added protection for this television set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.

OPERATION OF YOUR SET

18. This television set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.
19. If the television set does not operate normally by following the operating instructions, unplug this television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.
20. When going on a holiday : If your television set is to remain unused for a period of time, for instance, when you go on a holiday, turn the television set " off " and unplug the television set from the wall outlet.

IF THE SET DOES NOT OPERATE PROPERLY

21. If you are unable to restore normal operation by following the detailed procedure in your operating instructions, do not attempt any further adjustment. Unplug the set and call your dealer or service technician.
22. Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.
23. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

FOR SERVICE AND MODIFICATION

24. Do not use attachments not recommended by the television set manufacturer as they may cause hazards.
25. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

DOC NO:
REV.NO:
DATE :

Date:10-Jan-2017
Rev No. 1.0

PRODUCT SPECIFICATIONS LED TV			
ID		CATEGORY:	43" LED TV FHD
		MODEL NO:	TH-43E330M
		REFERENCE MODEL (PANASONIC/COMPETITION):	TH-43D330M
		SUPPLIER MODEL NO :	L43D1390
		SUPPLIER:	
		ASSEMBLER	
	ID PHOTO	REMOTE: Add Picture	CHASSIS / Main Board: MS3463S.PB782
GENERAL ITEMS	PARAMETERS		SPECIFICATIONS
	OSD LANGUAGES		ENGLISH/FARSI/ FRENCH/ARABIC/PORTUGUESE
	MANUAL LANGUAGES		ENGLISH/ FRENCH/ARABIC/PORTUGUESE
	SUPPLY TYPE		CBU
	DESTINATION		ME/AF
	FC COLOUR		DECO IS METAL SILVER
TUNNING	NUMBER OF PROGRAMS		ATV:99; DVB-T/T2 600
	COLOUR SYSTEM		NTSC / PAL; DVB-T/T2
	SOUND SYSTEM		BG / I / DK
PICTURE	RESOLUTION		1920*1080
	ASPECT RATIO		4:3, 16:9, Zoom1, Zoom2, Full
	DNR (Noise Reduction)		YES
	BACKLIGHT ADJUST		NO
AUDIO	AUDIO OUTPUT POWER (RMS)		8W x 2
	SPEAKER TYPE		BOX
FEATURES	HOTEL MODE		YES
	PANASONIC LOGO		YES
	CEC		NO
	Sound Out (ARC)		YES
	DIGITAL DOLBY		YES
	ANY OTHER (PLEASE SPECIFY)		
CONNECTIVITY	RF IN		YES
	DTV IN		YES
	AV1 IN		YES
	AV2 IN		NO
	AV OUT		YES
	DVD COMPATIBILITY (YPbPr/YCbCr)		YES
	USB INPUT (2.0 SUPPORT)		YES
	HDMI INPUT		YES
	HEADPHONE OUT		YES
	PC AUDIO IN		NO
	PC(VGA IN)		YES
	MHL		NO
MULTIMEDIA SUI	ANY OTHER (PLEASE SPECIFY)		SPDIF
	USB DEVICE SUPPORT		2TB (max.)
	PICTURE FORMAT		JPG, JPEG, BMP, PNG
	AUDIO FORMAT		MP3/AAC
PANEL SPECIFICATIONS	VIDEO FORMAT		H.264, MPEG4, MPEG2, HEVC FHD, MKV w/o Divx
	PANEL MODEL NO. AND TYPE		LGD LC430DUY-SHA1/IPS
	SCREEN SIZE & DIAGONAL		43" / 109CM
	ASPECT RATIO		16:9
	RESOLUTION		1920(H) x 1080 (V)
	DISPLAY AREA(H x V)		953mm x 543mm
	PIXEL PITCH		0.1634 mm x 0.4902 mm
	DISPLAY COLOURS		16.7M (8bit)
	CONTRAST RATIO		800:1
	MAX BRIGHTNESS		240cd/m2
WEIGHT AND DIMN.	VIEWING ANGLE (HORIZONTAL / VERTICAL)		178°/178°
	NET WEIGHT WITH PEDESTAL		7.6KG
	NET WEIGHT W/O PEDESTAL		7.4KG
	NET DIMENSIONS WITH PEDESTAL		977*625.7*221.3MM
	NET DIMENSIONS W/O PEDESTAL		977*574.2*92MM
	GROSS DIMENSIONS (PACKING BOX)		1128*660*142MM
RATING	GROSS WEIGHT (WITH PACKING BOX)		10.7KG
	OPERATING VOLTAGE		110V-240V~ at 50/60Hz
	POWER CONSUMPTION		75 W
ACCESSORIES	STD BY POWER CONSUMPTION		≤0.5W
	REMOTE		06-IRPT39-A0818
	BATTERY		2 "AA" Batteries
	POWER CORD TYPE		Integrated
	POWER CORD		-
	POWER PLUG		2 pin
REGULATION	ANY OTHER (PLEASE SPECIFY)		Mini AV adaptor cable
	BIS		NO
	CB		YES
	ERP		YES
	EMC		YES
	BEE		NO
	ANY OTHER (PLEASE SPECIFY)		Dolby, SIPSI

PERSON IN CHARGE

ODM PROMOTION

QA
S & M

MSD3463 Factory Menu Spec

CATALOG

1. Introduction

2. ADC Adjust&WhiteBalance Auto Adjust

3. PICTURE

3.1 PICTURE MODE

3.2 PICTURE CURVE

3.2.1 Contrast

3.3 WB ADJUST

3.4 OVERSCAN

3.5 PQ ADVANCED

3.5.1 LUMA_OTHER

3.5.2 COLOR ICC BK2B

3.5.3 PEAKING SETTING

3.5.4 NR SETTING

3.5.5 CTI SETTING

4. SOUND

4.1 SOUND MODE

4.2 VOLUME CURVE

4.3 AUDIO PRESCALE

4.4 AUDIO AVC

4.5 PEQ

4.6 AUDIO DRC

4.7 TREBLE/BASS RANGE

5. GENERAL SETTING

6. DEBUG

6.1 QMAP

6.2 VIF1

6.3 TIMER TEST

7. PANEL SETTING

8. EMC SETTING

9. SYSTEM INFO

10. SW Update

1. Introduction

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Factory Settings
0 SHIPPING INIT                >>>
1 AGING MODE                   >>>
2 ADC ADJUST                   ->
3 PICTURE SETTING             ->
4 SOUND SETTING                ->
5 GENERAL SETTING              ->
6 DEBUG                         ->
7 PANEL SETTING                ->
8 EMC SETTING                  ->
9 SYSTEM INFO                   ->
10 BOARD INIT                   >>>
11 SW UPGRADE                   ->

Main Board:                    TP.MS3463S.PB801
Checksum:                      0x766B
Build Time:                    2015-04-24 19:53:50
```

- 0) SHIPPING INIT: TV Initialization , and all parameter to be default. Designed for Shipment.
- 1) AGING MODE: TV aging mode switch.
- 2) ADC ADJUST: Change ADC parameters
- 3) PICTURE SETTING: Change Picture Setting
- 4) SOUND SETTING: Change Sound Setting
- 5) GENNERAL SETTING: Some other settings usually used, and also for Debug.
- 6) PANNEL SETTING: Change panel paramters like BitMap, ODD.EVEN and Etc.
- 7) EMC SETTING : Some settings may affect EMC.
- 8) SYSTEM INFO : Display some system information.
- 10) BOARD INIT: Factory reset .
- 11) SW UPGRADE: Software update item.

Main board: Display board type

Checksum: Firmware checksum

Build Time: Display Firmware build time.

2. ADC Adjust&WhiteBalance Auto Adjust

ADC ADJUST		
0	Auto Adjust	FAIL
1	Source	RGB
2	R-Gain	5179
3	G-Gain	5139
4	B-Gain	5159
5	R-Offset	0
6	G-Offset	0
7	B-Offset	0
8	Reset	>>>
Main Board: TP.MS3463S.PB801		
Checksum:		0x766B
Build Time:		2015-04-24 19:53:50

3. PICTURE

PICTURE SETTING		
0	SOURCE	DTV
1	PICTURE MODE	->
2	PICTURE CURVE	->
3	WB ADJUST	->
4	OVERSCAN	->
5	PQ ADVANCED	->
6	Gamma	Default
7	DLC	Default
8	HDMI RGB range	0~255
Main Board: TP.MS3463S.PB801		
Checksum: 0x766B		
Build Time: 2015-04-24 19:53:50		

- 0) Source: Choose source
- 1) Picture Mode: Change picture mode parameters
- 2) Picture Curve: Picture mode parameter curve.
- 3) WB Adjust: White Balance parameter setting
- 4) Overscan : Overscan setting
- 5) PQ Advanced: For PQ Adjustment.
- 6) Gamma: Preset several Gamma Curves, for PQ debug.
- 7) DLC: Preset several Curves, for PQ debug.
- 8) HDMI RGB Range: Change Limit range or Full Range.

3.1 PICTURE MODE

PICTURE MODE	
0 Source	DTV
1 Picture Mode	Personal
2 Contrast	50
3 Brightness	50
4 Colour	50
5 Sharpness	50
6 Tint	50
Main Board: TP.MS3463S.PB801	
Checksum: 0x766B	
Build Time: 2015-04-24 19:53:50	

- 0) Source: Choose sources
- 1) Picture Mode: Select picture mode which is same with main menu.
- 2) Contrast: Adjust contrast which is same with main menu.
- 3) Brightnesst: Adjust brightness which is same with main menu.
- 4) Colour: Adjust Colour which is same with main menu.
- 5) Sharpness : Adjust Sharpness which is same with main menu.
- 6) Tint: Adjust tint which is same with main menu.

3.2 PICTURE CURVE

PICTURE CURVE		
0	Source	DTV
1	Contrast	->
2	Brightness	->
3	Colour	->
4	Sharpness	->
5	Tint	->
Main Board: TP.MS3463S.PB801		
Checksum: 0x766B		
Build Time: 2015-04-24 19:53:50		

Adjust the real value of main menu from 0 to 100

- 0) Source: Choose source
- 1) Contrast: Adjust the real contrast for main menu from osd 0 to osd 100.
- 2) Brightnesst: Adjust the real brightness for main menu from osd 0 to osd 100.
- 3) Colour: Adjust the real colour for main menu from osd 0 to osd 100.
- 4) Sharpness: Adjust the real sharpness for main menu from osd 0 to osd 100.
- 5) Tint: Adjust the real tint for main menu from osd 0 to osd 100.

3.2.1 Contrast

Contrast	
0	Resolution
1	Contrast_0 85
2	Contrast_25 108
3	Contrast_50 128
4	Contrast_75 150
5	Contrast_100 170
Main Board: TP.MS3463S.PB801	
Checksum: 0x766B	
Build Time: 2015-04-24 19:53:50	

- 1) Contrast_0: The real value of main menu contrast osd 0
- 2) Contrast_25: The real value of main menu contrast osd 25
- 3) Contrast_50: The real value of main menu contrast osd 50
- 4) Contrast_75: The real value of main menu contrast osd 75
- 5) Contrast_100 : The real value of main menu contrast osd 100

The Brightness, Colour, Sharpness, Tint are same with the contrast.

3.3 WB ADJUST

WB ADJUST	
0 SOURCE	DTV
1 COLOUR TEMP	Normal
2 R-GAIN	128
3 G-GAIN	128
4 B-GAIN	128
5 R-OFFSET	1024
6 G-OFFSET	1024
7 B-OFFSET	1024
8 SYNC ALL	>>>
Main Board: TP.MS3463S.PB801	
Checksum: 0x766B	
Build Time: 2015-04-24 19:53:50	

WhiteBalance Adjustment

This page only for current source White Balance Adjustment. Different source may have different values. There are Warm, Cool, Normal modes and save every separate source. We can change the R-GAIN, G-GAIN, B-GAIN, R-OFFSET, G-OFFSET, B-OFFSET.

SYNC ALL : SYNC the white balance of the current source to all other sources.

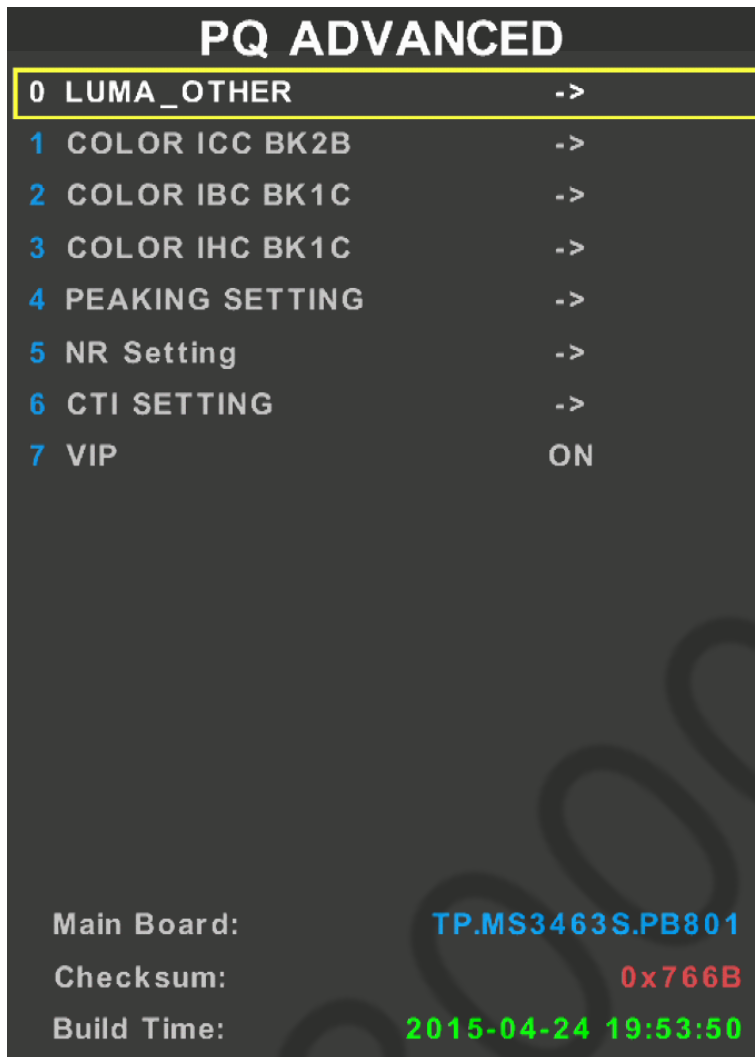
3.4 OVERSCAN

OVERSCAN	
0	RESOLUTION
1	LEFT-CROP 0
2	RIGHT-CROP invalid
3	UP-CROP 0
4	DOWN-CROP invalid
Main Board: TP.MS3463S.PB801	
Checksum: 0x766B	
Build Time: 2015-04-24 19:53:50	

This page can adjust overscan.

Note : Overscan should check with every timing .

3.5 PQ ADVANCED



PQ Adjustment Page

Adjust luminance, Colors, peakings ,NR and etc.

4. SOUND

SOUND SETTING	
0 SOURCE	DTV
1 SOUND MODE	->
2 VOLUME CURVE	->
3 AUDIO PRESCALE	->
4 AUDIO AVC	->
5 PEQ	->
6 AUDIO DRC	->
7 TREBLE/BASS RANGE	->
8 SPDIF AUDIO DELAY	20
Main Board: TP.MS3463S.PB801	
Checksum: 0x766B	
Build Time: 2015-04-24 19:53:50	

- 0) Source: Choose source
- 1) Sound Mode: BASS, TREBLE, EQSettings.
- 2) Volume Curve: Adjust volume curve.
- 3) Audio Prescale: Adjust the power of current source.
- 4) Audio AVC: For Desginer Only
- 5) PEQ: For Desginer Only
- 6) Audio DRC: For Desginer Only
- 7) Treble/Bass Range : Adjust the Treble/Bass range
- 8) SPDIF Audio Delay: Adjust the SPDIF Audio delay.

4.1 SOUND MODE

SOUND MODE	
0 SOURCE	DTV
1 SOUND MODE	Personal
2 EQ 120Hz	50
3 EQ 500Hz	50
4 EQ 1.2KHz	50
5 EQ 3KHz	50
6 EQ 12KHz	50
Main Board: TP.MS3463S.PB801	
Checksum:	0x766B
Build Time:	2015-04-24 19:53:50

4.2 VOLUME CURVE

VOLUME CURVE	
0 SOURCE	DTV
1 VOLUME OFFSET	126
2 VOL 1	485
3 VOL 10	650
4 VOL 20	792
5 VOL 30	867
6 VOL 40	914
7 VOL 50	938
8 VOL 60	954
9 VOL 70	970
10 VOL 80	986
11 VOL 90	1002
12 VOL 100	1023
13 RESET VOL CURVE	
Main Board: TP.MS3463S.PB801	
Checksum: 0x766B	
Build Time: 2015-04-24 19:53:50	

NOTE:

- 1) Volume Offset : User overall volume control, every source has a unique value.
- 2) VOL1---VOL100 : All sources share a same value, make sure the next value bigger than the before.

5. GENERAL SETTING

GENERAL SETTING	
0 POWER MODE	Off
1 LOGO	ON
2 TEST PATTERN	Off
3 CHANNEL EXPORT	>>>
4 CHANNEL IMPORT	>>>
5 Watch Dog	On
Main Board: TP.MS3463S.PB801	
Checksum: 0x766B	
Build Time: 2015-04-24 19:53:50	

0) Power Mode: On/Standby/Last boot status.

1) LOGO: Set boot logo on or off.

2) Test Pattern: Test pictures from IC which can help to judge panel issue or not.

3) Channel Export: Export channel table.

4) Channel Import: Import channels table to TV.

5) Watch Dog: watch dog switch.

6. DEBUG

DEBUG	
0	UART Debug HK
1	QMAP ->
2	VIF1 ->
3	VIF2 ->
4	VIF3 ->
5	Erase DB bank NONE
6	TIMER TEST ->
Main Board: TP.MS3463S.PB801	
Checksum: 0x766B	
Build Time: 2015-04-24 19:53:50	

0) UART Debug: For deigner only

1) QMAP : Map adjustment

3) Timer Test: Speed up timer.

7. PANEL SETTING

PANEL SETTING	
0	Preset Panel ID 0(8bit-normal)
1	Colour Bits 8bit
2	LVDS MAP Normal(VESA)
3	Swap Channel ODD - EVEN
4	LVDS Swing 21
5	PWM Freq 200Hz(PWM)
6	PWM Freq Step 5
7	Backlight 100
8	PWM REF 69
9	Mirror OFF
Main Board: TP.MS3463S.PB801	
Checksum: 0x766B	
Build Time: 2015-04-24 19:53:50	

8. EMCSETTING

EMC SETTING	
0 MIU SSC En	1
1 MIU SSC Span	25 KHz
2 MIU SSC Step	1.0 %
3 LVDS SSC En	1
4 LVDS SSC Span	35.0 KHz
5 LVDS SSC Step	2.00 %
Main Board: TP.MS3463S.PB801	
Checksum:	0x766B
Build Time:	2015-04-24 19:53:50

9. SYSTEM INFO

SYSTEM INFO	
0 AT Version	3.0
1 Mantis/OCS	CS94127
2 SW UPGRADE NAME	MSD3463_SN51_69....
3 PANEL INFO	PANEL_CMO_42_H1
4 EDID	OK
5 HDCP Key	Error: Data blank!!!
6 CI+ Key	Error: Key invalid!!!
Main Board:	TP.MS3463S.PB801
Checksum:	0x766B
Build Time:	2015-04-24 19:53:50

10. SW UPGRADE

SW UPGRADE

0 UPGRADE TV

>>>

1 BIN NAME

MSD3463_SN51_69.bin

Main Board:

TP.MS3463S.PB801

Checksum:

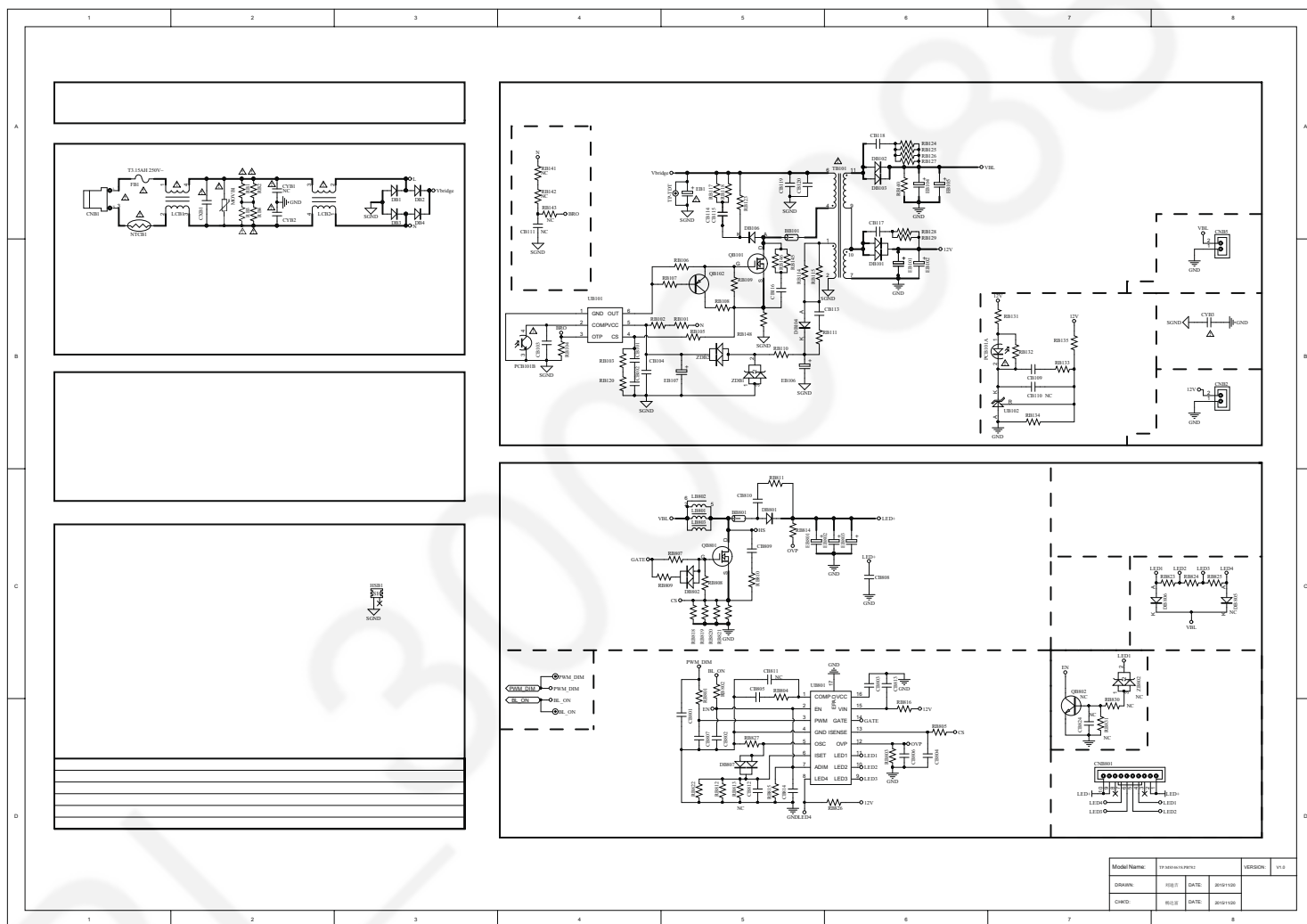
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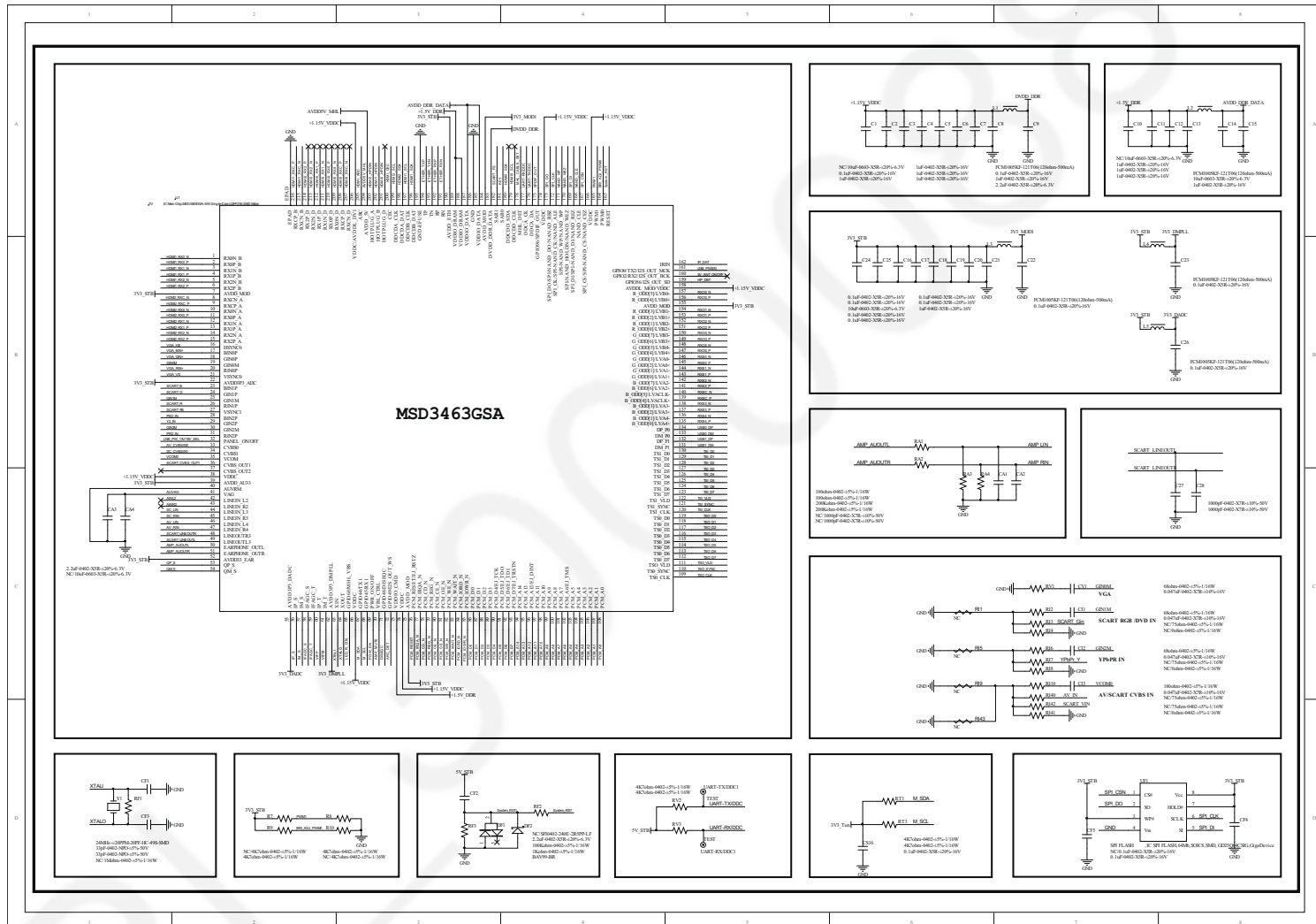
Build Time:

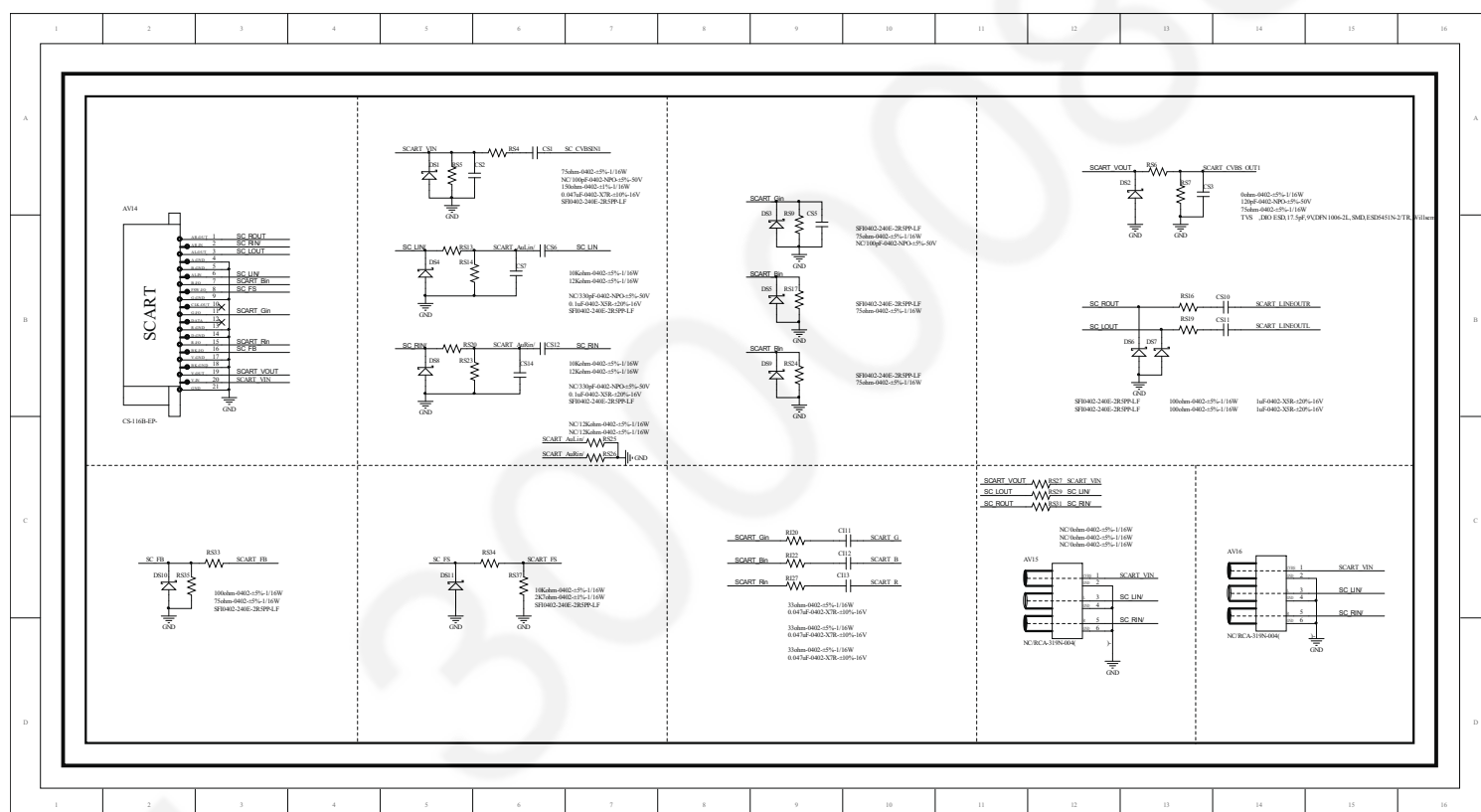
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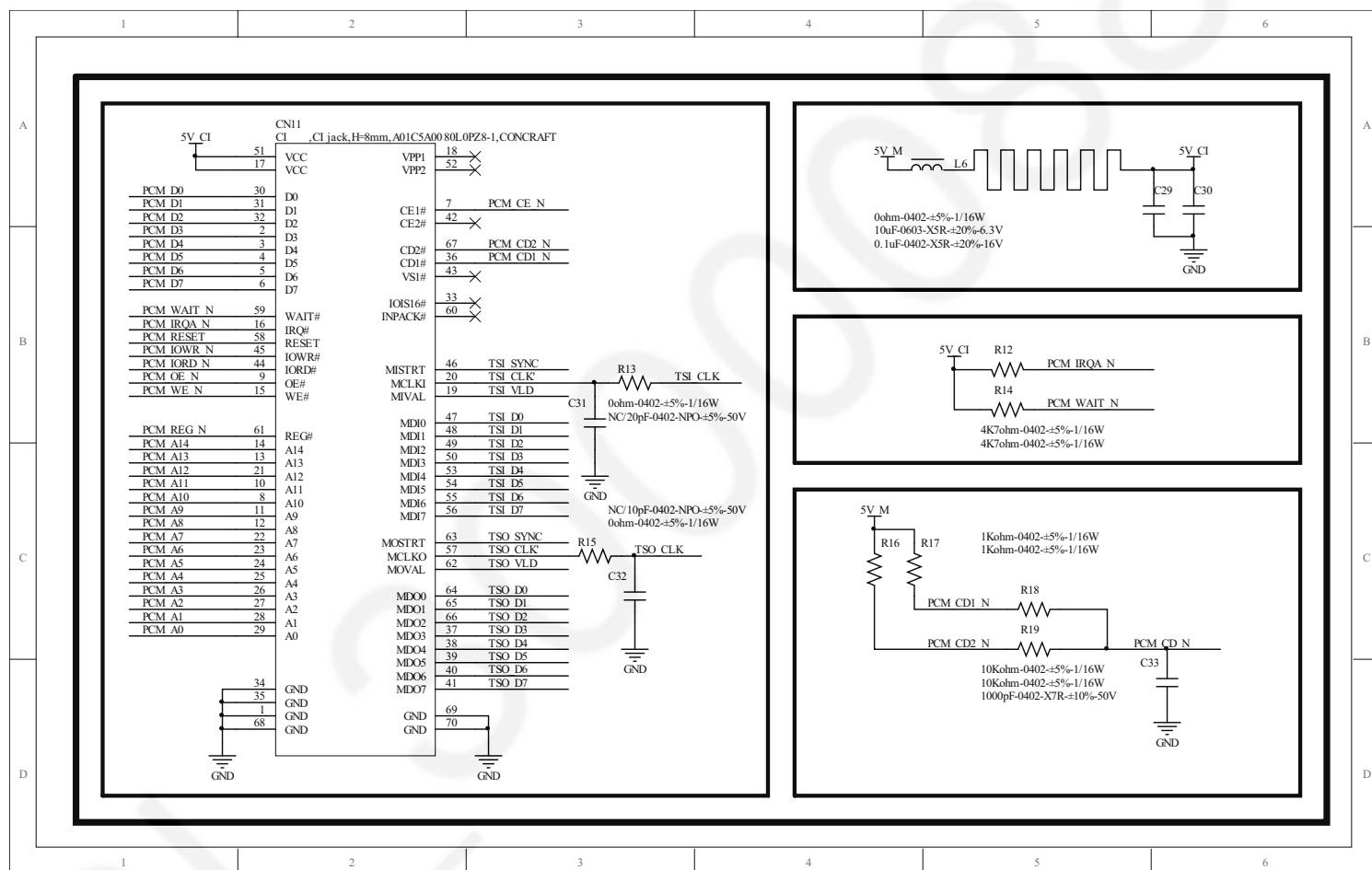
0) Upgrade TV: update item

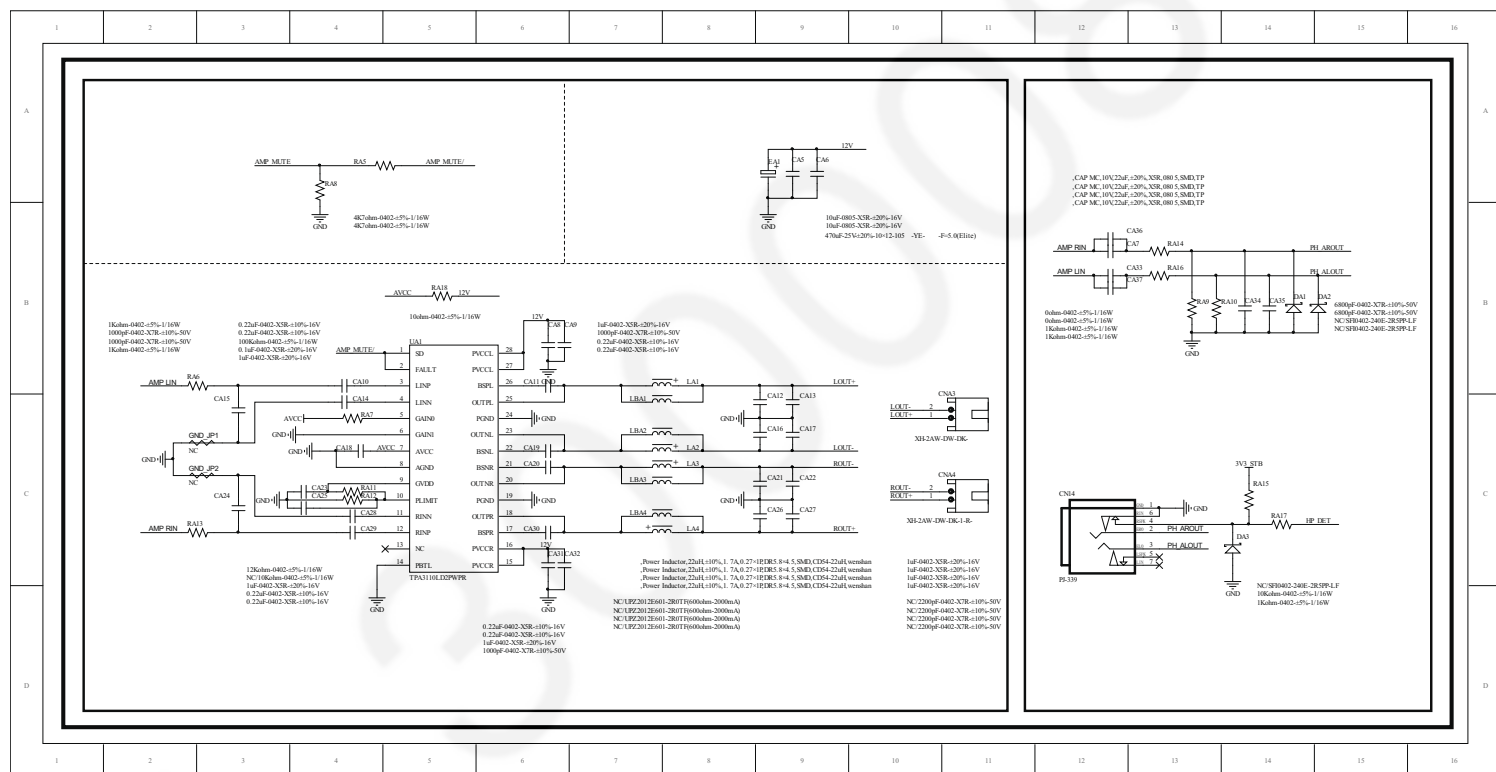
1) Bin Name: Software bin name.

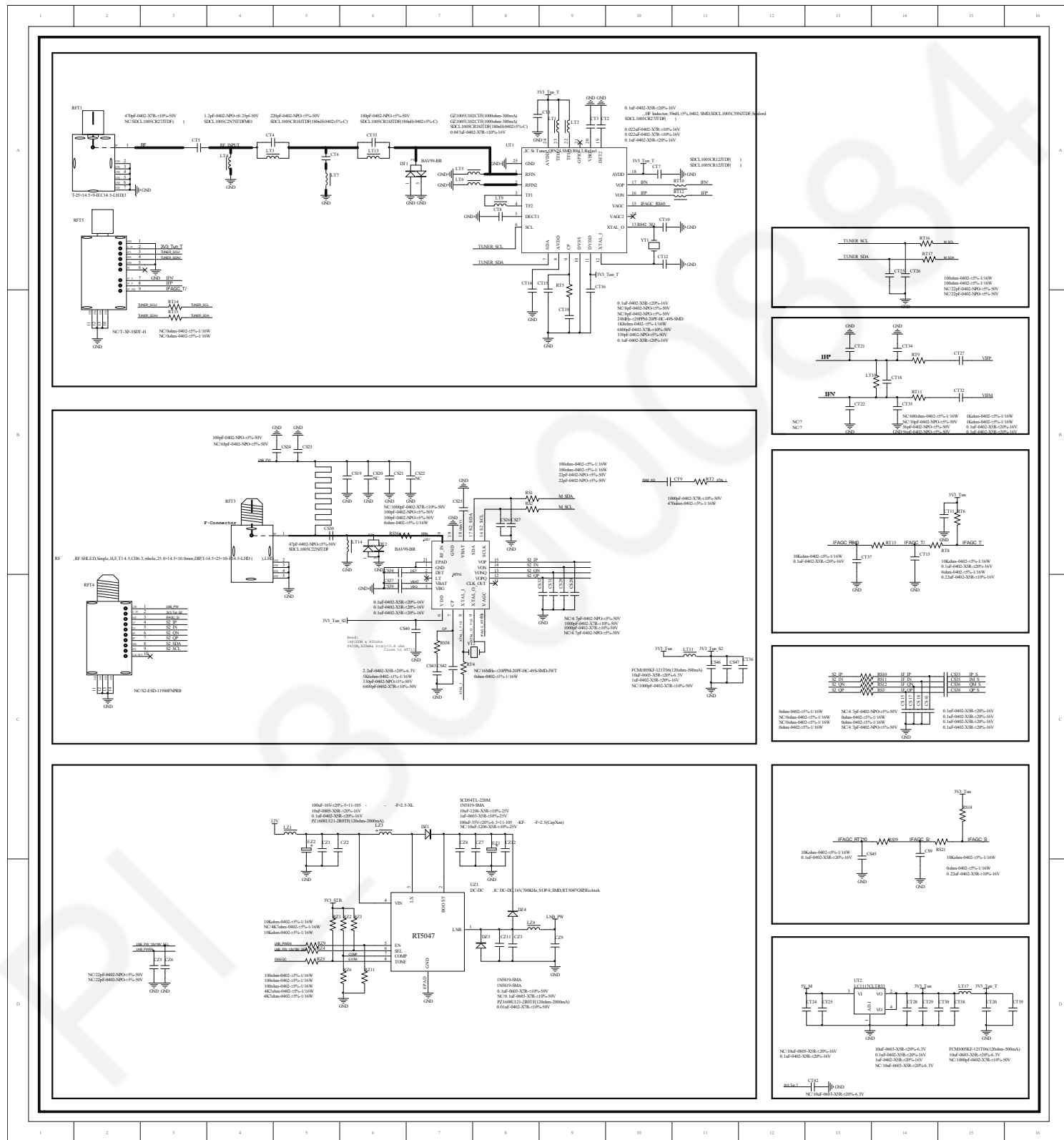












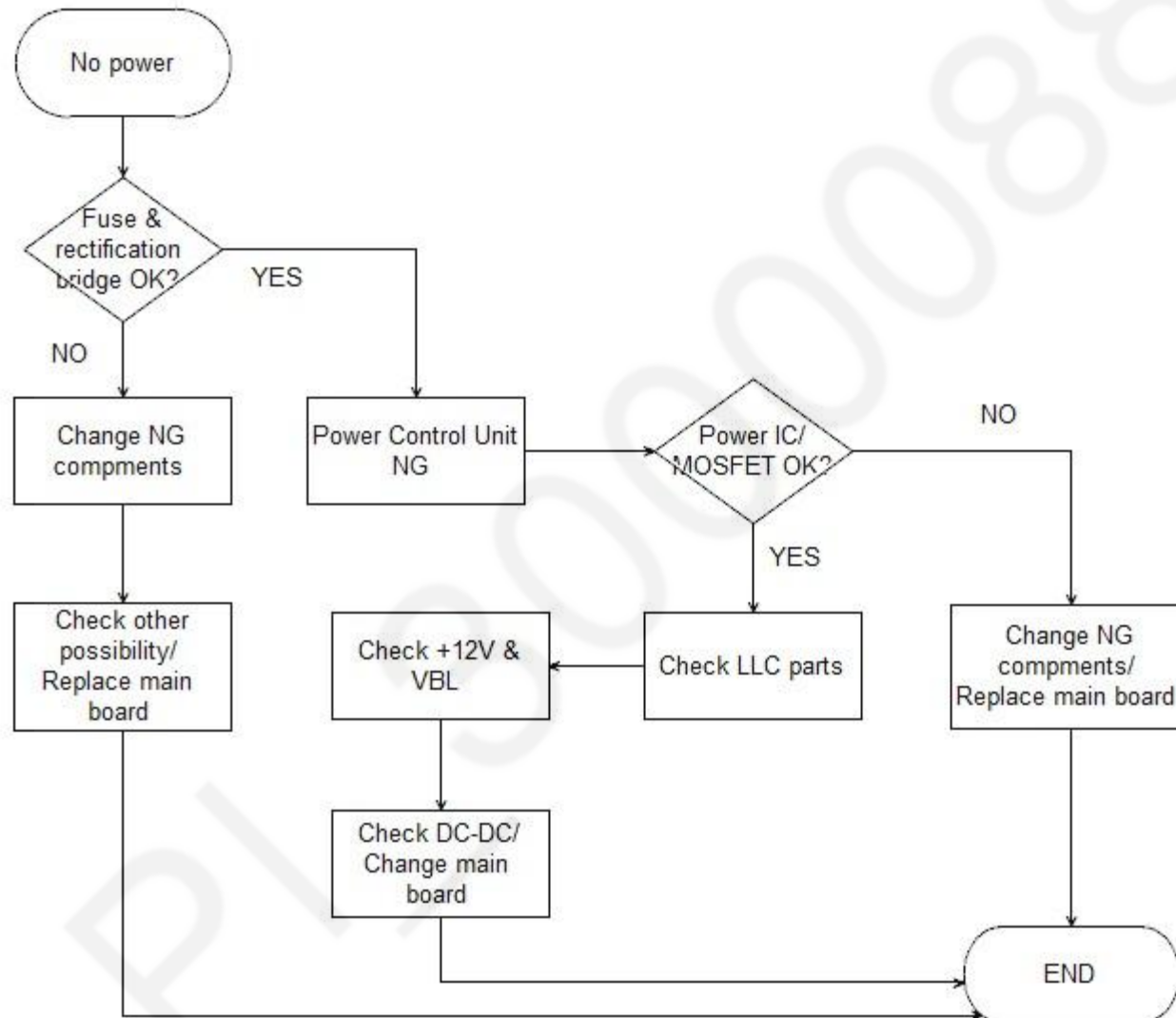
Trouble shooting diagram

Terms:

- ✓ **IR:** *Infrared Receiver*
- ✓ **RC:** *Remote Control*
- ✓ **IR logic:** *IR blink with RC action*
- ✓ **LVDS:** *Low Voltage Differential Signal, output from processor and input for panel*
- ✓ **O/C:** *Open Cell, panel with source board*
- ✓ **BL:** *Back Light, light source for panel module*
- ✓ **LB:** *LED (Light Emitting Diode) Bar, light source for BL module*
- ✓ **VBL:** *Voltage for Back Light (before Boost)*
- ✓ **VLED:** *Voltage for LED (after Boost)*
- ✓ **OVP:** *Over Voltage Protection*
- ✓ **OSD:** *On Screen Display*
- ✓ **AMP:** *Amplifier*

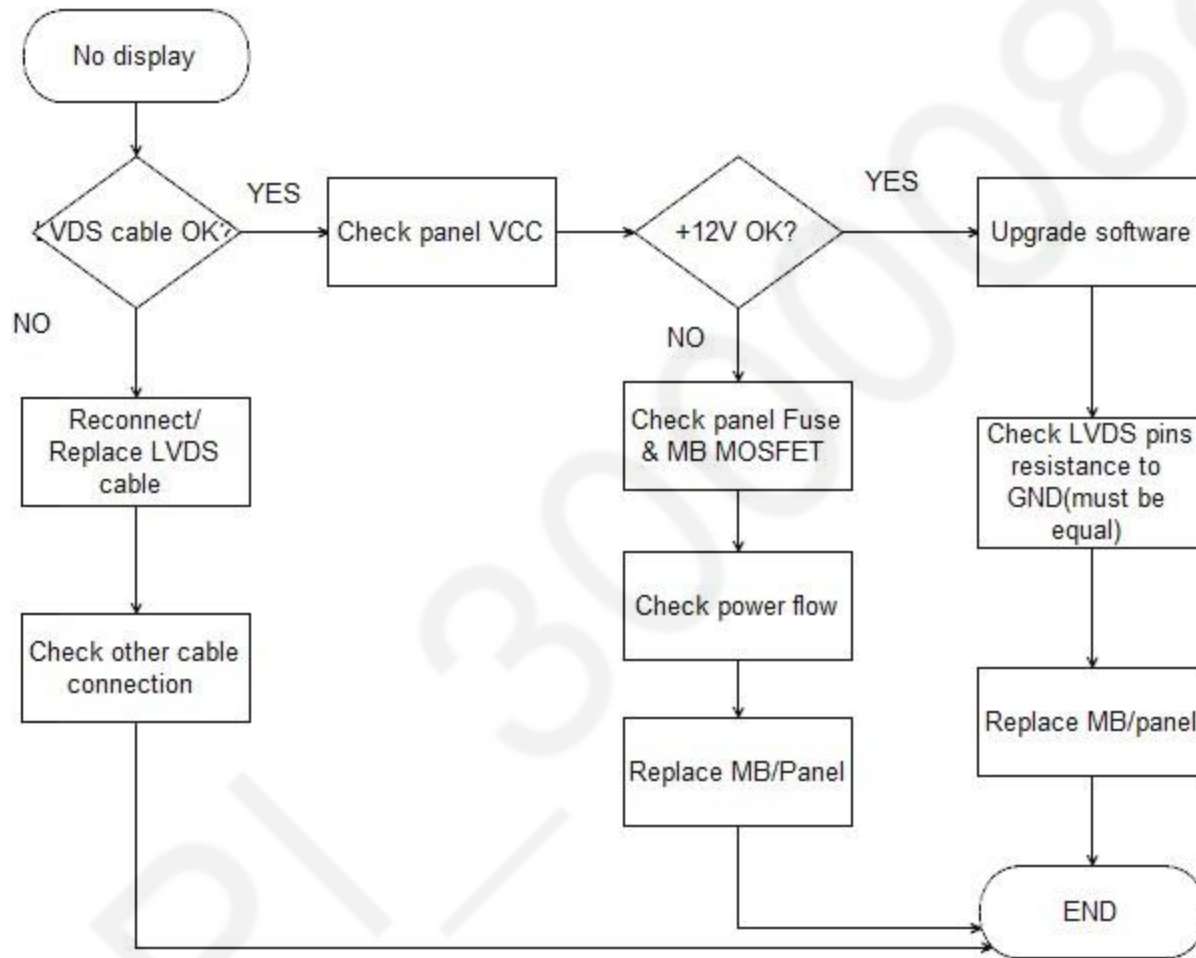
1.No power

No power LED, RC or Key can not turn on TV. Power LED no light/no change.



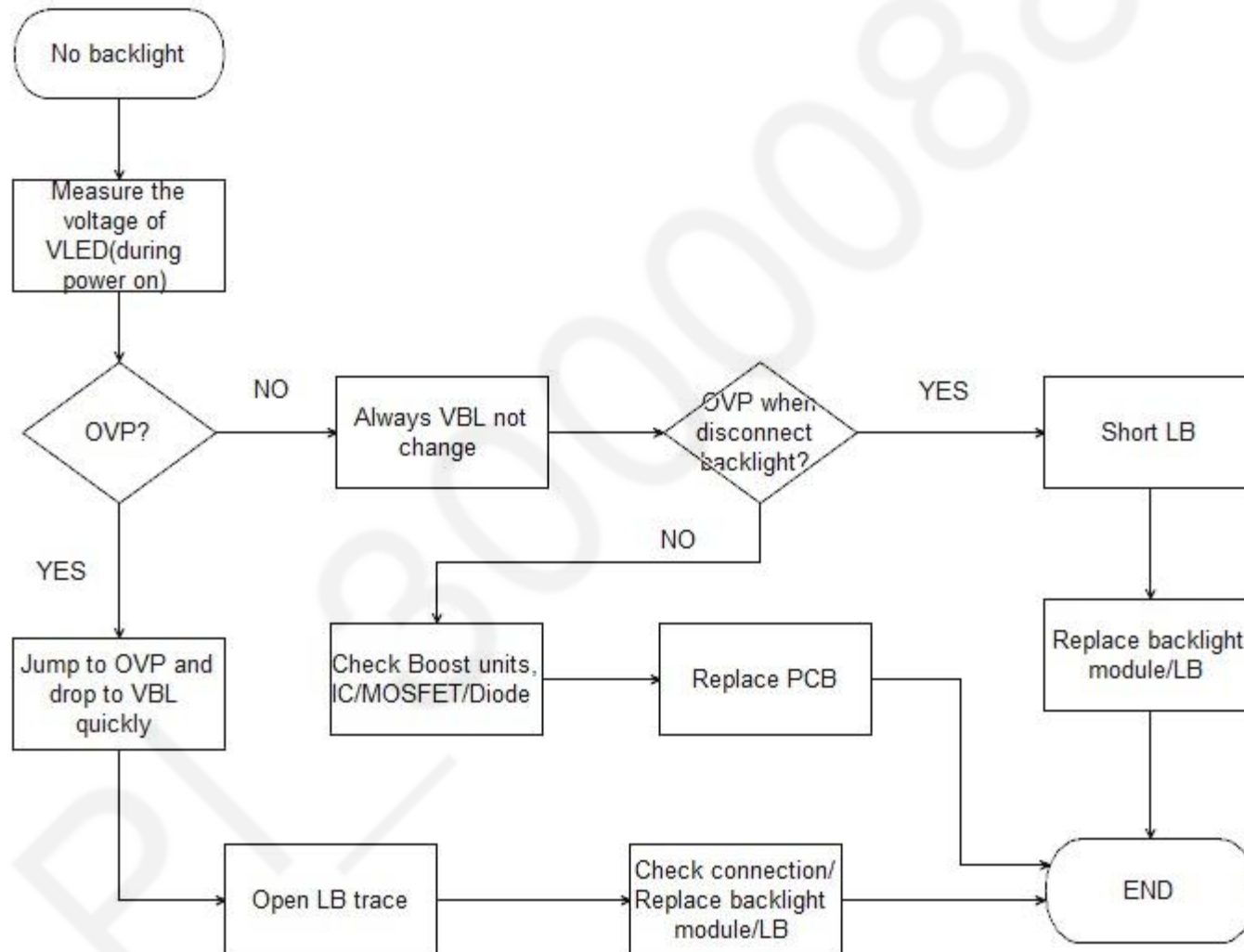
2.No Display / Black Panel

Back light is OK, sound is OK, but no picture.



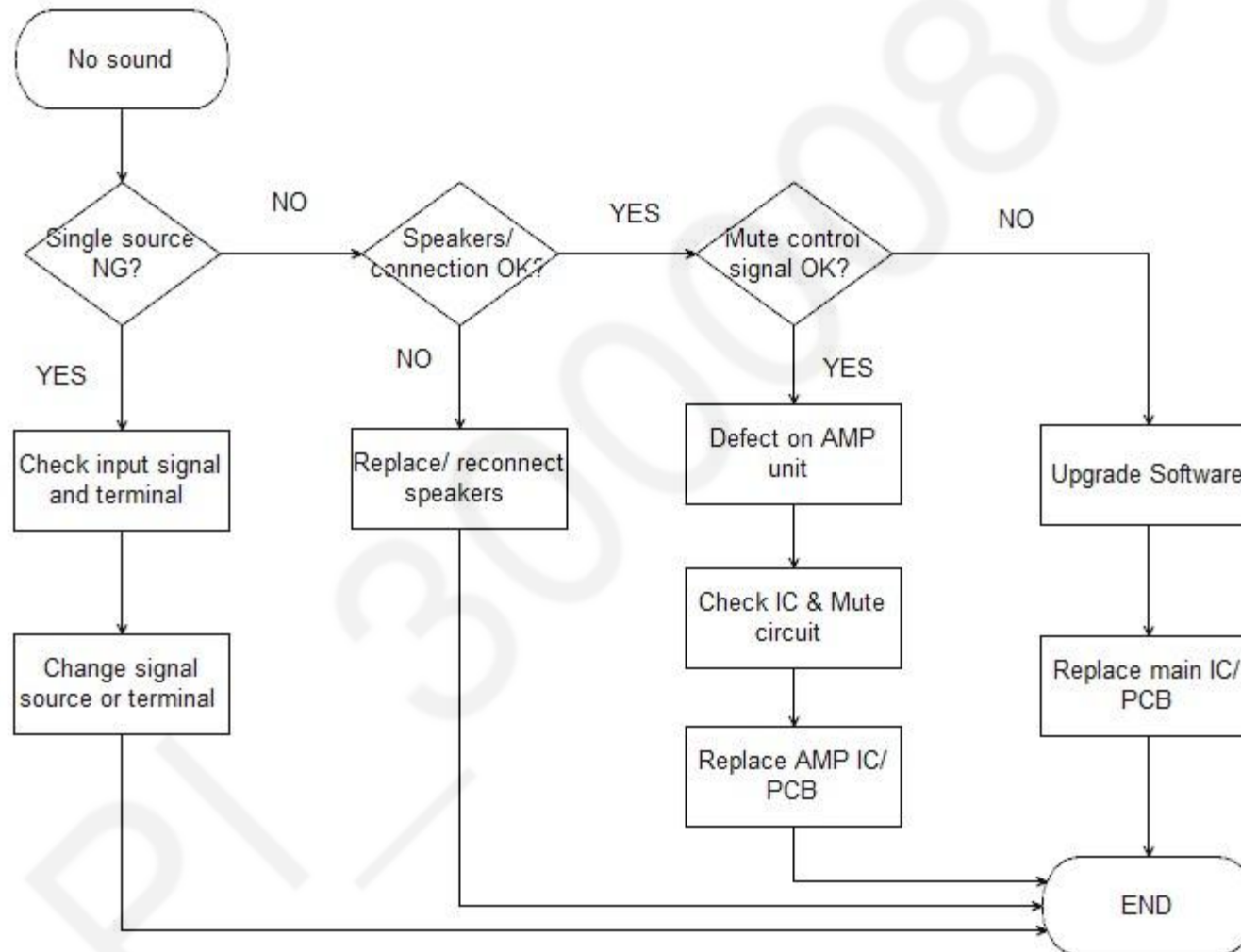
3.No back light

Power LED logic OK, sound OK, but no picture(Different from No Display).



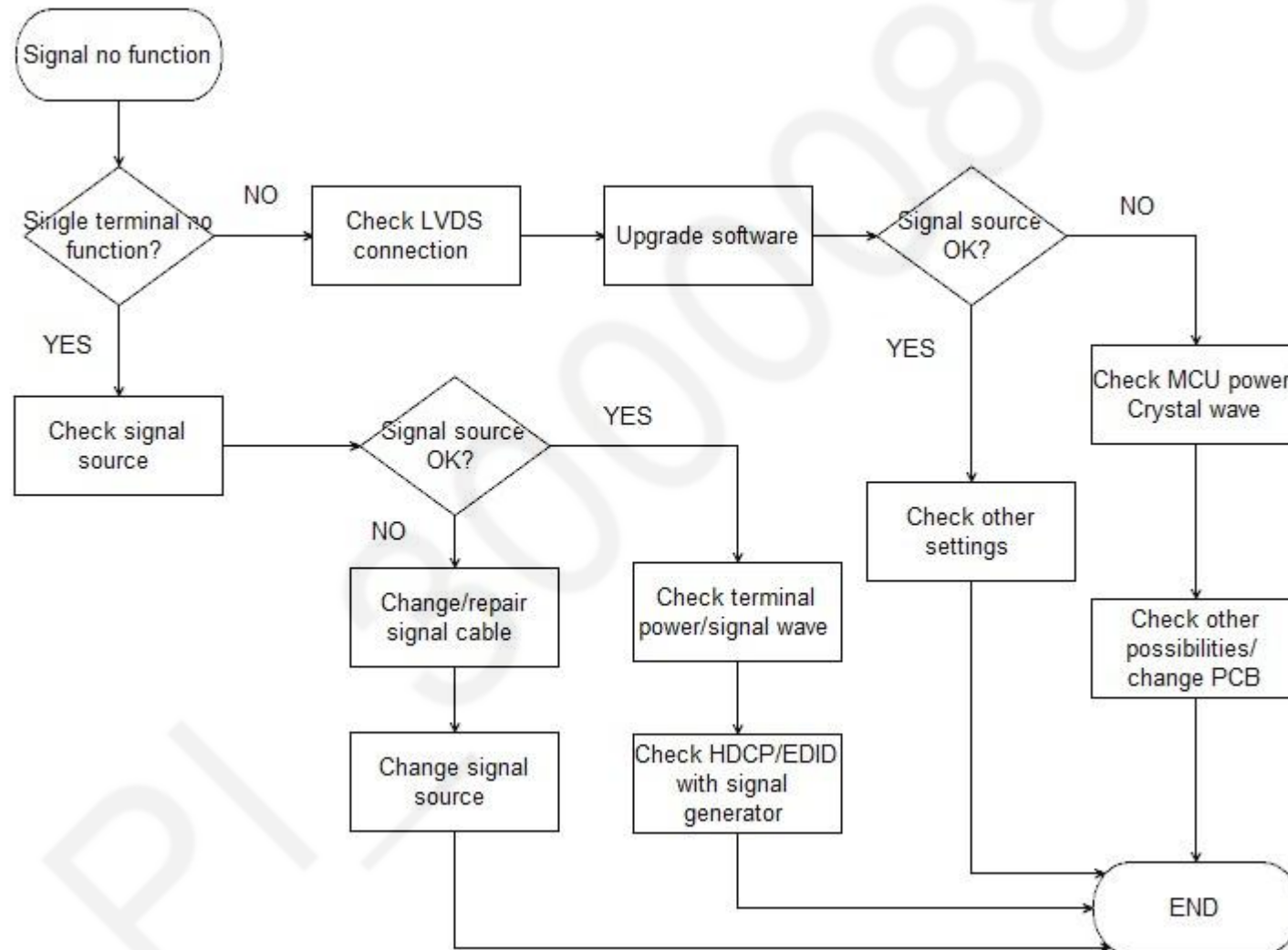
4.No sound

One or all signal source without sound.



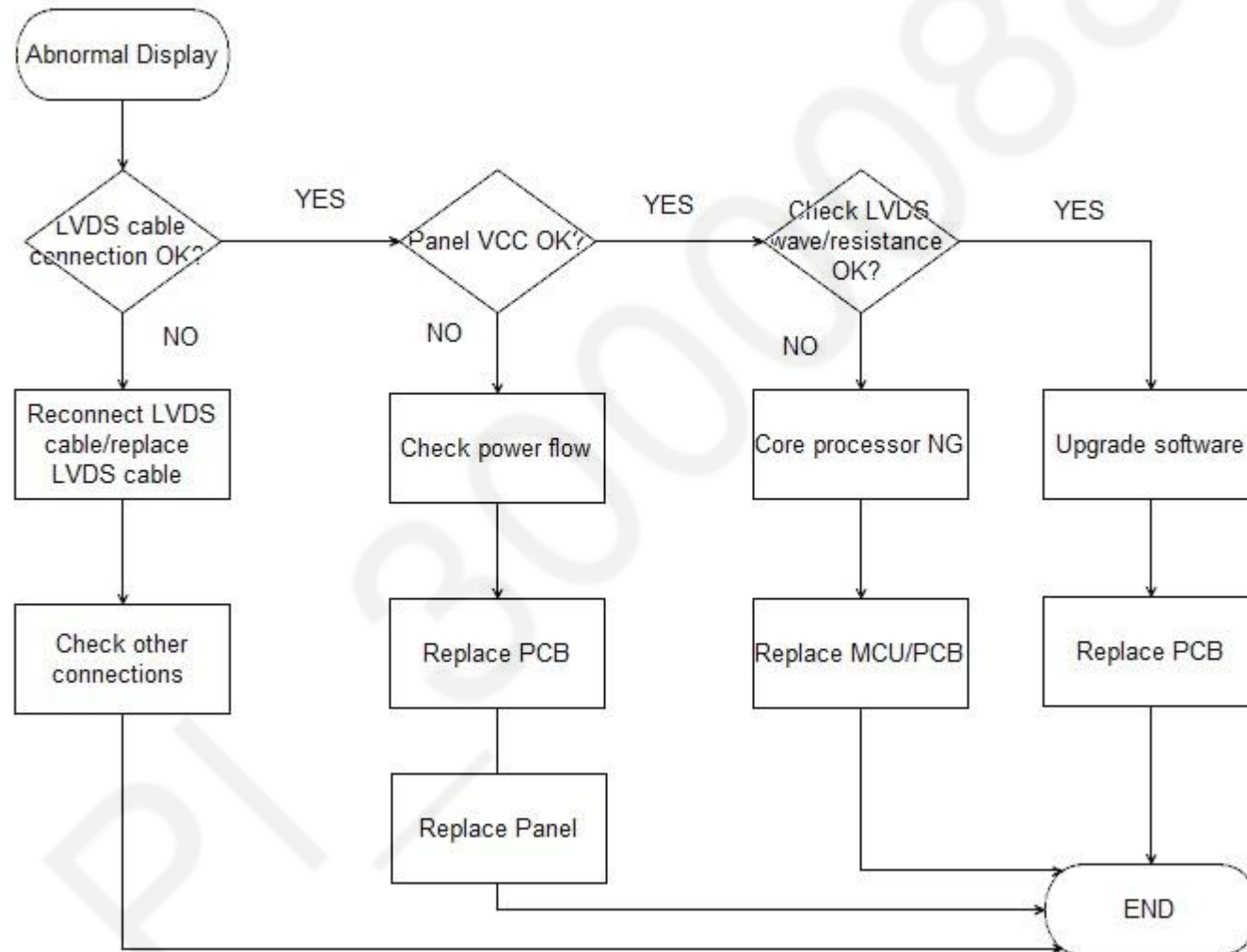
5.Signal source no function

One or several source no function.



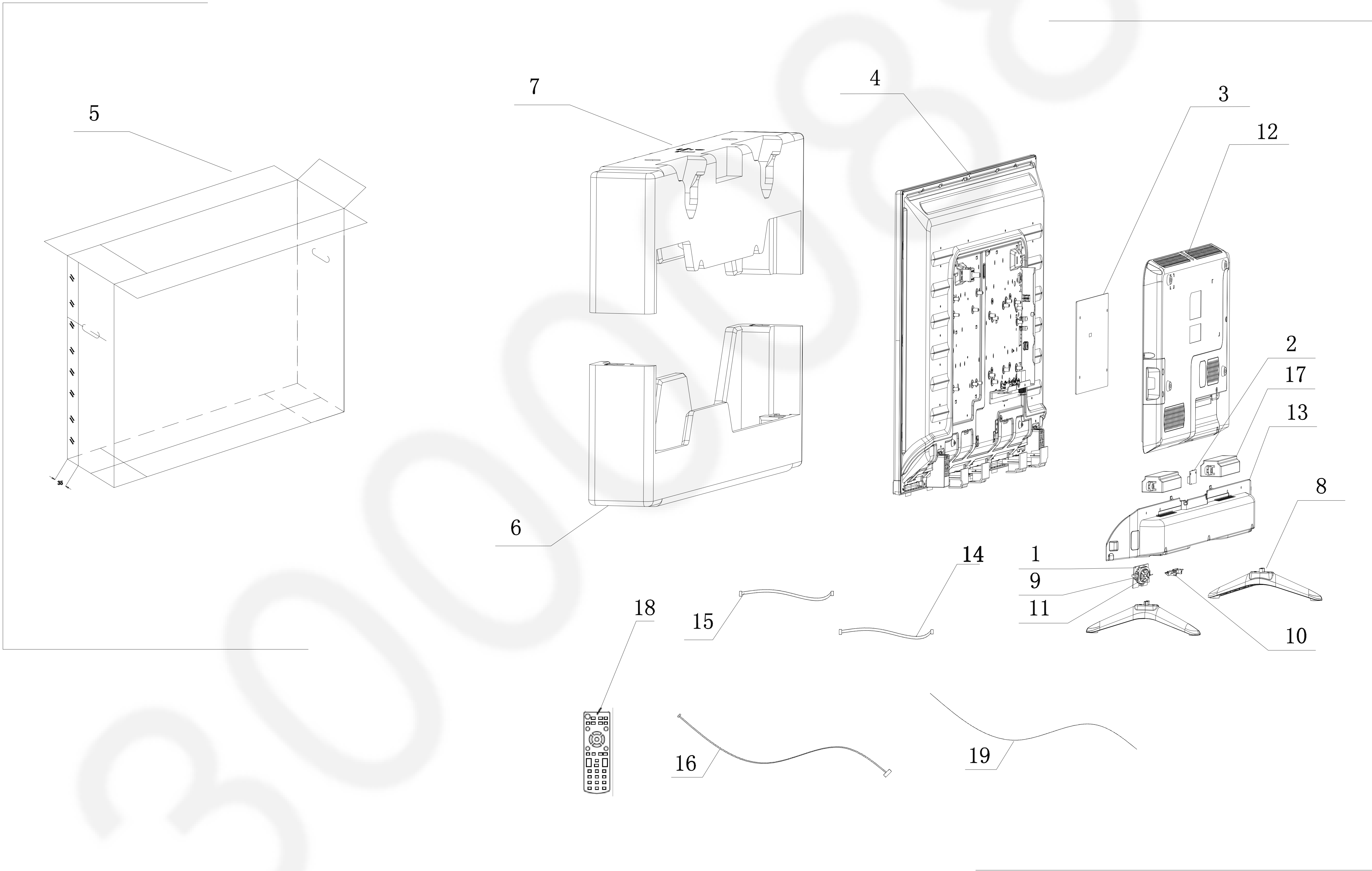
6.Abnormal Display

OSD NG or picture NG.



Exploded Drawing

Notes:
1.The explode drawing is only for reference, correcting parts
and screws are according to BOM please.



PART NUMBER			APPROVED		DATE
E3-43D169YA-NG0W					
PART DESCRIPTION			CHECKED		DATE
EXPLODE_DRAWING					
MODEL NAME			DESIGNED		DATE
UNIT	SCALE	PROJECT	SIZE	SHEET NUMBER	REVISION
MM	XX		A4	1 OF 1	V1.0

Optional reserve material list

E3-43D169YA-NG0W /TH-43E330M/43D1690/3MS463LC7AP. 02/LG1GTA

S/N	Child	Description	中文描述	Qty	Unit
1	M8-55D16VY-KE1	KEY BOARD	ASS'Y - 按键	1	PC
2	M8-43D16YA-IR1	IR BOARD	ASS'Y - 遥控接收	1	PC
3	02-SMC63A-C016000	MAIN BOARD	43D1690/MS3463 背光72-81.6V 560MA*1	1	PC
4	M8-43D1690-LPPY1	LVF430LGDO E2 V32 LG1GTA/ODT	LVF430LGDO E3 V32 一体机模组 LG1GTA/ODT	1	PC
5	76-548270-OAT	CARTON-BOX	纸箱	1	PC
6	75-548170-EC1	POLYFOAM BOTTOM	下发泡胶	1	PC
7	75-548160-EC1	POLYFOAM TOP	上发泡胶	1	PC
8	56-574130-OHQ6QG	DECOR STAND RIGHT	塑胶底座	2	PC
9	56-565420-OHAX4G	DECOR KEY BLACK	五向按键	1	PC
10	56-487960-OHH22G	LENS -- LIGH PURPLE R=Y	透镜	1	PC
11	56-487810-OHA6RG	DECOR KEY SUPPORT BLACK	五向按键支架	1	PC
12	55-742030-1UL6RG	BACKCOVER	小后壳 上	1	PC
13	55-486320-1HN6RG	BACKCOVER	小后壳 下	1	PC
14	46-FW0357-51DA3G	WIRE LVDS	数据线	1	PC
15	46-FM065L-05PG	WIRE IR WIRE	标准 5PIN IR 线	1	PC
16	46-FM060L-04P01G	WIRE CABLE	WIRE 按键线 600MM 4 A2008 A1250/1255 2.0	1	PC
17	42-WDF413-XX1G	SPEAKER	箱体喇叭 8 OHM 10W	2	PC
18	06-IRPT39-A0818	RCT PANASONIC BLACK	外购松下DTV专用遥控器 PANASONIC (N2QAYB000818	1	PC
19	51-DC0200-0CNAYG	POWER CORD	泛欧电源线 (带卡座)	1	PC