

# ***SERVICE MANUAL***

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***ORIGINAL MANUAL ISSUE DATE: 2025.05***

Update in 2025.11: add P84 Caution for Tape Cleaning.

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**9-888-935-U1**

**LCD TV**

**SONY®**

Sony Taiwan Limited, HEST  
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**MODEL LISTS****Self Diagnosis**  
Supported model

MODEL	REMOTE	DESTINATION	RMF-TX820U
K-43S20M2	RMF-TX820U	UCM/UC2	
K-50S20M2	RMF-TX820U	UCM/UC2	
K-55S20M2	RMF-TX820U	UCM	
K-55S20CM2	RMF-TX820U	U2	
K-65S20M2	RMF-TX820U	UCM	
K-65S20CM2	RMF-TX820U	U2	
K-75S20M2	RMF-TX820U	UCM	
K-75S20CM2	RMF-TX820U	U2	



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Note: Illustrations in this manual may have difference from an actual set.

## SAFETY NOTES

### 1-1. Warnings and Caution.

- 1) CAUTION :These servicing instructions are for use by qualified service personnel only.
- 2) To reduce the risk of electric shock, do not perform any servicing other than that stated in the operating instructions unless you are qualified to do so.
- 3) WARNING!!: An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line. The replaceable fuse should be in the neutral of the mains supply. When replacing the fuse, the mains must be disconnected to de-energize the phase conductors. (\*Except AC ADAPTOR, because it does not carry out replacing an internal fuse.)
- 4) CARRYING THE TV: be sure to follow these guidelines to protect your property and avoid causing serious injury:
  - Carry the TV with an adequate number of people; larger size TVs require two or more people.
  - Correct hand placement while carrying the TV is very important for safety and to avoid damages.
- 5) SAFETY-RELATED COMPONENT WARNING!!: Components identified by shading and  mark on the exploded views, and in the parts list are critical for safe operations. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operations are identified in this manual. Follow these procedures whenever critical components are replaced, or improper operation is suspected.

### 6) IMPORTANT REMINDER FOR TV MAIN BOARD REPLACEMENT:

It is mandatory for service centers to confirm the TV's system information after each repair is carried out with Main board replacement. Whenever a TV Main board is replaced, the correct TV Model and Serial number must be reinserted into memory. This is a MANDATORY procedure that each service center must apply.

### 1-2. Caution Handling of LCD Panel.

When repairing the LCD Panel, make sure you are grounded with a wrist band.

When repairing the LCD Panel on the wall, the panel must be secured using the 4 mounting holes on the rear cover.

- 1) Do not press the panel or frame edge to avoid the risk of electric shock.
- 2) Do not scratch or press on the panel with any sharp objects.
- 3) Do not leave the module in high temperature or in areas of high humidity for an extended period.
- 4) Do not expose the LCD panel to direct sunlight.
- 5) Avoid contact with water. It may cause short circuit within the module.
- 6) Disconnect the AC power when replacing the backlight.
- 7) Always clean the LCD panel with a soft cloth material.
- 8) Handle the wires or connectors of the backlight circuit with care. Damaging the wires may cause a short circuit.
- 9) Protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).

## SAFETY NOTES

10) During the repair, DO NOT leave the POWER ON or Burn-in period for more than 1 hour while the TV is facing down on a cloth. Refer Figure 1.

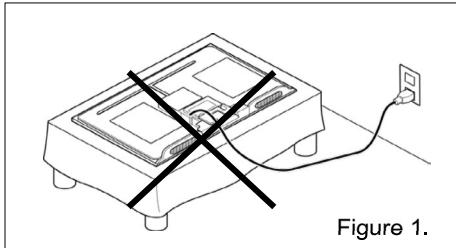


Figure 1.

※ Things to prepare in advance.



※ Caution: ESD wrist-strap to be checked daily.

Use Multi-meter to make sure resistance of ESD wrist-strap is OK.  
(R=750K Ohms to 35Mega Ohms)

ESD cushion / sheet

Please use a bag containing the board or a special seat



### 1-3. Caution\_for\_Board\_handling.

The following problems will occur due to handling of the IC mounted on the board

- Solder crack due to substrate handling (stress).
- IC breakdown due to static electricity (ESD).

When repairing the TV at the customer's home or service station or Repair of defect board, please pay attention to the handling of the board.

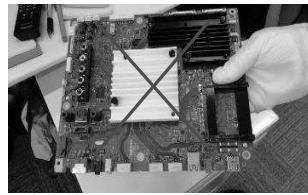
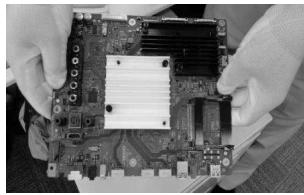
Substrate that needs attention for handling :

- Main Board(B\*\* Board)
- Backend Board(D\*\* Board)

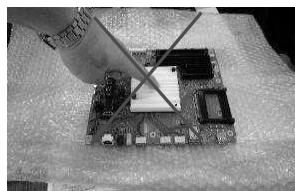
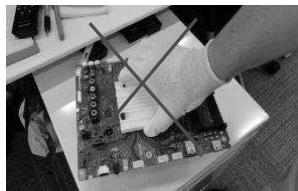
## SAFETY NOTES

### 1) Caution for Board handling(Stress).Be sure to observe the following contents

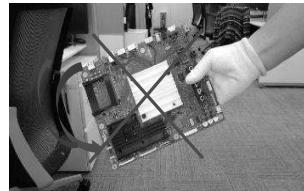
① Hold the board with both hands



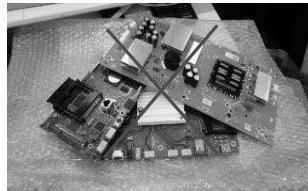
② Do not hold or push Heat-Sink



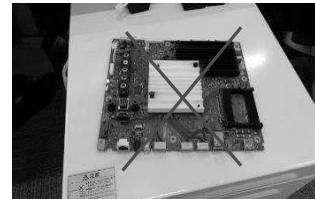
③ Handle with care. Do not swing



④ Do not stack up



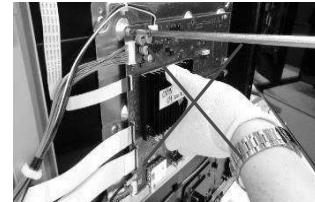
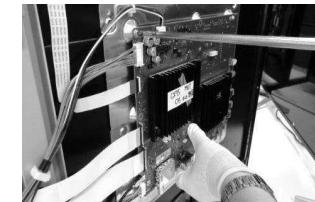
⑤ Regardless of good or defective board, always put it on ESD cushion slowly



⑥ Keep vertical position and put in/take out from Box. Always put into ESD bag then place into Box/Container Box



⑦ Do not hold Heat-Sink when take out or install it.



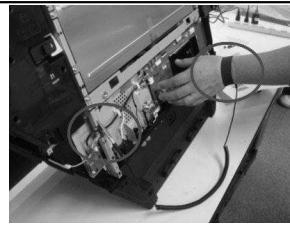
## SAFETY NOTES

### 2) Caution for Board handling (ESD). Be sure to observe the following contents

① When take off Rear-Cover, do not touch board



② Use ESD wrist-strap



② When holding board, do not hit or touch to Plastic part(s)

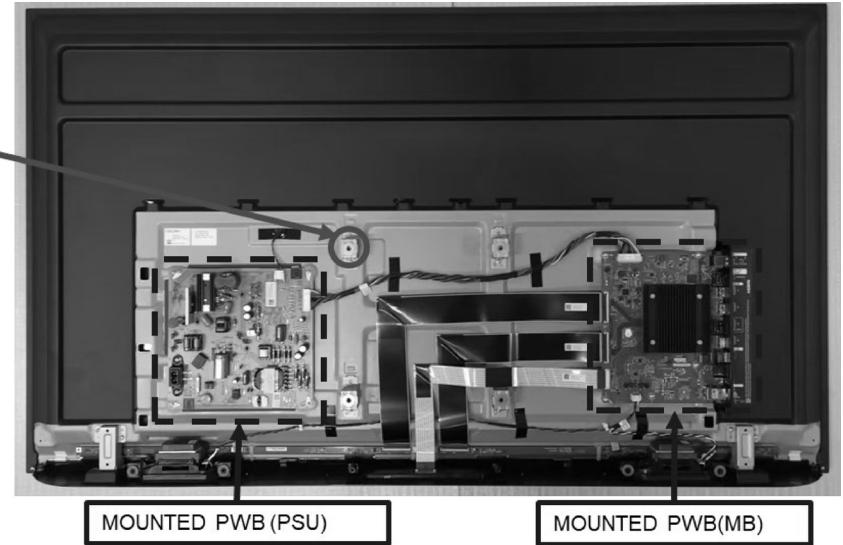


③ After take defective board out from TV, put it into ESD bag. Do not place on floor mat/carpet direct. Always put it on ESD cushion.



※ Installation example of wrist-strap.

Please connect the clip to the metal part of the chassis of the TV with the wristband grounded. Below is a grounding example of each model.



※ Caution : ESD wrist-strap to be checked daily. Use Multi-meter to make sure resistance of ESD wrist-strap is OK. (R=750K Ohms to 35Mega Ohms)

#### 1-4. Caution About the Lithium Battery.

1) Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type.

2) Outer case broken battery should not contact to water.

## SAFETY NOTES

### 1-5. Safety Check-Out

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:-

- 1) Check the area of your repair for unsoldered or poorly soldered connections.  
Check the entire board surface for solder splashes and bridges.
- 2) Check the inter board wiring to ensure that no wires are pinched or contact high-wattage resistors.
- 3) Check all control knobs, shields, covers, ground straps and mounting hardware have been replaced. Be certain you have replaced all the insulators.
- 4) Look for unauthorized replacement parts, particularly transistors that were installed during a previous repair. Point them out to the customer and recommend them replacement.
- 5) Look for parts which show obvious signs of deterioration even though functioning. Point them to the customer and recommend for replacement.
- 6) Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 7) Check the antenna terminals, metal trim, metalized knobs, screws and all other exposed metal parts for AC leakage. Check leakage test as described next.
- 8) For safety reasons, repairing the Power board and/or Inverter board is prohibited.

### 1-6. Leakage Test.

(To protect electric shock when customer touch the terminal.). Leakage current can be measured by V: Voltmeter or oscilloscope (r.m.s or peak reading).

Stabilized power supply instrument and isolated voltage transformer:

Use too much current capacity and isolated voltage transformer does not need to use stabilized power supply equipment.

Specification of RMS voltmeter: Input resistance > 1 Mohm, Input capacitance < 200 pF, Frequency range: 15 Hz – 1MHz . Refer Figure 2. Isolated type volt - meter (FLUKE 8921A etc \*1).

\*1 Not use FLUKE 8920A that connected to protective earth by diode.

# Leakage current of measurement instrument is less than 10 $\mu$ Arms when under test equipment AC plug is opened.

# Set up the following condition and turn on the set. Applied voltage: Nominal input voltage (Description on Nameplate).

# Measure the leakage current between one phase conductor and neutral for terminal A and terminal B.

Read rms value, and then calculate to peak value PEAK VALUE =  $\sqrt{2}$  RMS VALUE.

Comply with the following requirement.

Class II equipment (2-pin plug): for each terminal, the worst value of measurement must not exceed AC 350 $\mu$ A peak.

Note: including AC adaptor, AC adaptor/DC operated unit combination.

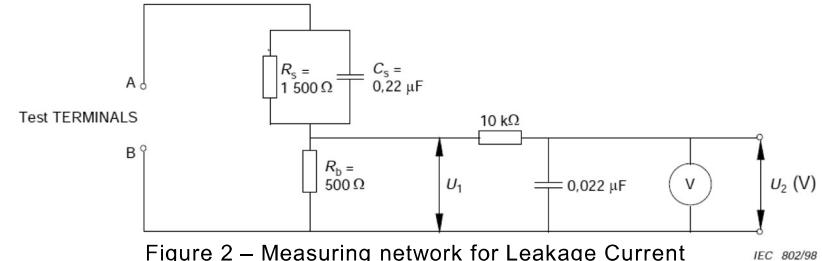


Figure 2 – Measuring network for Leakage Current

IEC 802/98

## SAFETY NOTES

### 1-7. How to Find a Good Earth Ground.

- 1) A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground.
- 2) If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.
- 3) If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure 3).

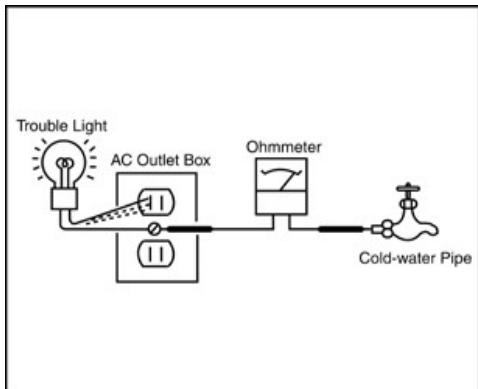


Figure 3. Checking for earth ground.

### 1-8. Lead Free Information

The circuit boards used in these models have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation.



Figure 4: LF Logo

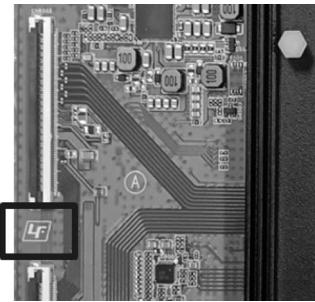


Figure 5: LF logo on circuit board

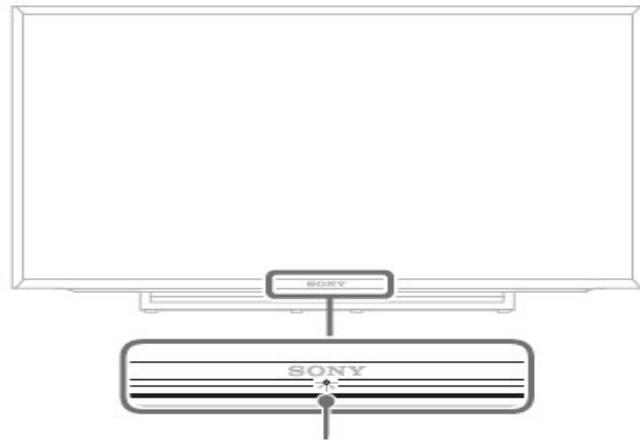
The servicing of these boards requires special precautions. It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints.

## SELF DIAGNOSIS FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the Smart Core Red LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the Smart Core Red LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

### DIAGNOSTIC TEST INDICATORS

When an error occurs, the Smart Core Red LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas. Result for all the following diagnostic items are displayed on screen. If the screen displays a "0", no error has occurred.



#### LED Indicator

- Flashes while the remote is being operated.

Status	LED Colour	Remarks
Power Off ( AC Off and *1)	OFF	*1 power switch off (by Side Key)
Power On	White → OFF	
Standby ( by remote control off and Side Key off)	OFF	
Picture Off	OFF	
Failure	Red Blinking	The number of LED blinking indicates cause of failure.
Panel ID mismatch	Red / White Blinking	Blinking: White = On / Off / On Red = Off / On / Off
Software Updating	White Blinking	Blinking: White On/Off

## SELF DIAGNOSIS FUNCTION

Note: Please be caution when checking failure board due to power is still supplied continuous when error is triggered. Please try recovery method by Remote Commander ON.

### Failure LED Display

Number of RED LED flashing	Error Item	Go to Shutdown State	Monitoring Items	Description	Error Location
2	MAIN_POWER	Yes	12V_DET	Main power rail monitoring (12V) failure (Main 12V over voltage)	Main Board or Power Supply Board
3	AUD_ERR	Yes	X_AUDIO_MON1	Audio amp protection/failure	Main Board or Speaker
5	PANEL_ID_ERR	Yes	Panel I2C ACK	Panel ID read failure	Main Board or Panel Module or FFC cable
5	PMIC_LS_ERR	Yes	TCONLESS_FAULT	PMIC or LSIC error	Main board or Panel Module or FFC cable
6	BACKLIGHT	Yes	BL_ERR	Backlight error	Main Board or Power Supply Board or Panel Module or Harness

## SELF DIAGNOSIS FUNCTION

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### Retry Limitation by Remote / Power Key

- 1) Main Power key & IR remote power key will be enabled for Recoverable shutdown.
- 2) When the Retry Count = 6, OFF/ON action by main power key & IR remote should not be accepted.
- 3) Retry Count will be reset after every AC OFF/ON.

## TROUBLESHOOTING

### Triage Chart

#### Before you make the service call:

1. Confirm the symptom from the customer.
2. Select that symptom from the chart.
3. Bring all the boards and cables listed for that symptom.
4. Follow the troubleshooting charts in the technical guides to isolate the board.

#### 5. Chart Colour Code:

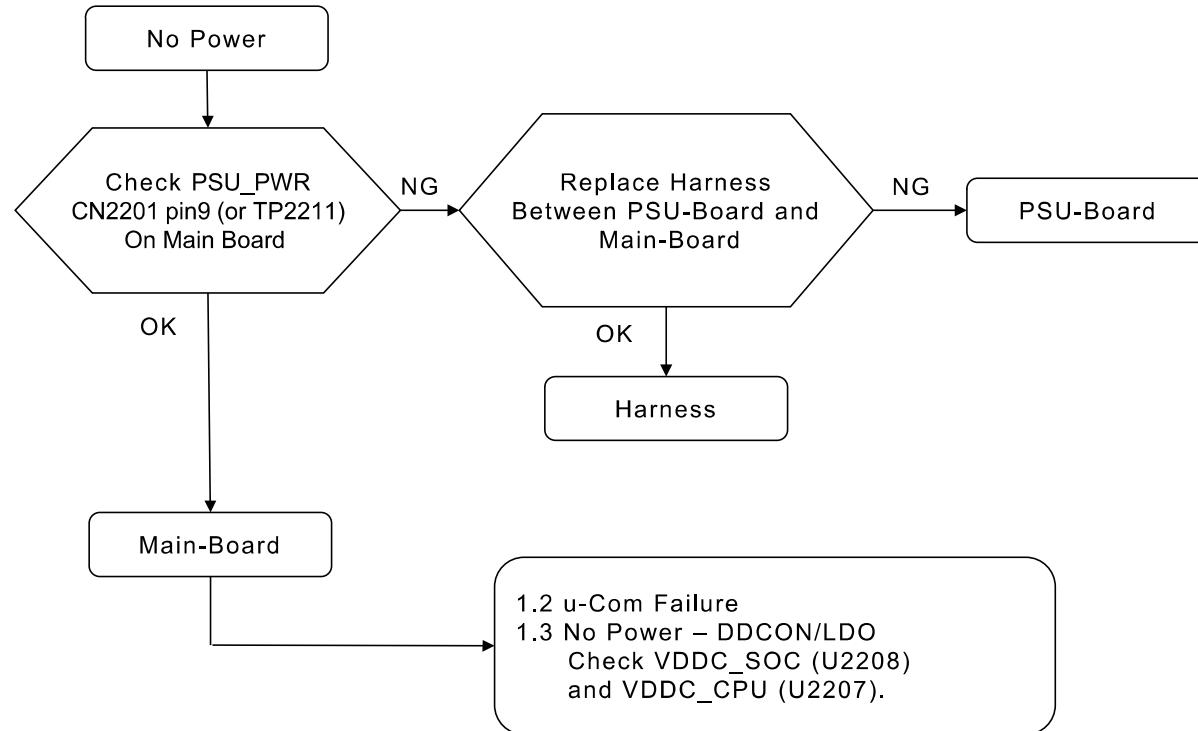
- : Most likely defective part
- ▲ : Secondary possible defective part
- : Tertiary possible defective part

BLACK TEXT: Board that may correct the symptom

Reference	Symptoms - Shutdown. Power LED blinking red diagnostics sequences								Symptoms - no shutdown Error log record only								No Power	Video - missing or distorted				Remote	Network	Audio	Smart Core	Bluetooth (BT)	
	2	3	4	5	6	7	8	TU_DEMOD	TU_DEMOD_I2C	TCON_ERR	FRCTC_I2C	AUD_ERR_I2C	4KPQ_ERR_I2C	TEMP_ERR_I2C	EARC_ERR_I2C	AMB_ERR_I2C		No White Power LED & does not respond to remote (Dead Set)	Stationary colored lines or dots	No video One of Inputs	NO RF input	No video all Inputs	No Remote Operation	Cannot connect to Wireless Network			
Main Board	▲	●		■	■					▲		●					▲	▲	●	●	●	▲	▲	●	▲	▲	
Power Board	●	▲		■	■												●				▲			▲			
Receiver Board																	▲					●			●		
Speaker		▲																						●			
Wi-fi & BT Module																							●			●	
B_to_Panel FFC				▲						▲								▲			▲						
T-con				●						●								▲		■							
LCD Panel				▲	●					■								●		■							
Problem	Power	Power	Panel	Panel (Communication)	Panel (Backlight)	TEMP	4KBE																				
	Audio	LD																									

## TROUBLESHOOTING

### 1.0 No Power - PSU

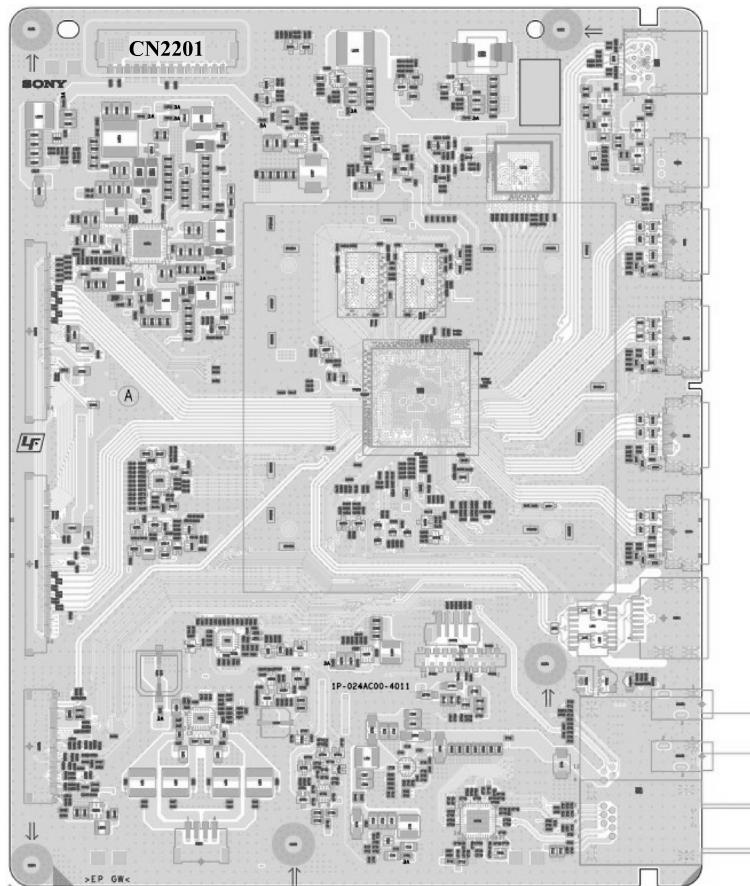


## TROUBLESHOOTING

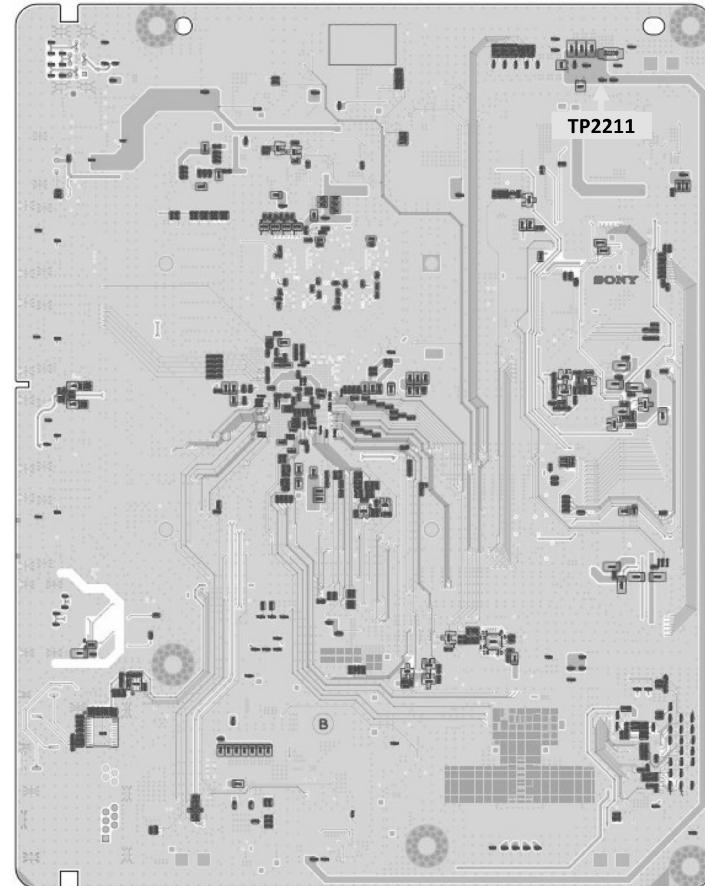
### 1.0 No Power - PSU

#### Checking Point - MB

A-side



B-side

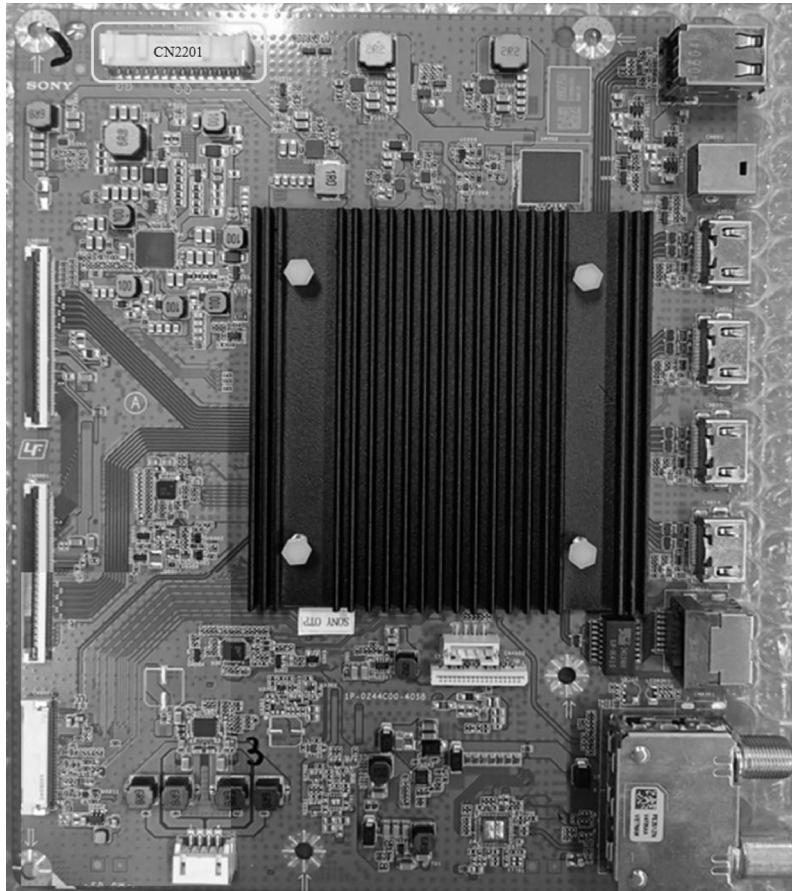


## TROUBLESHOOTING

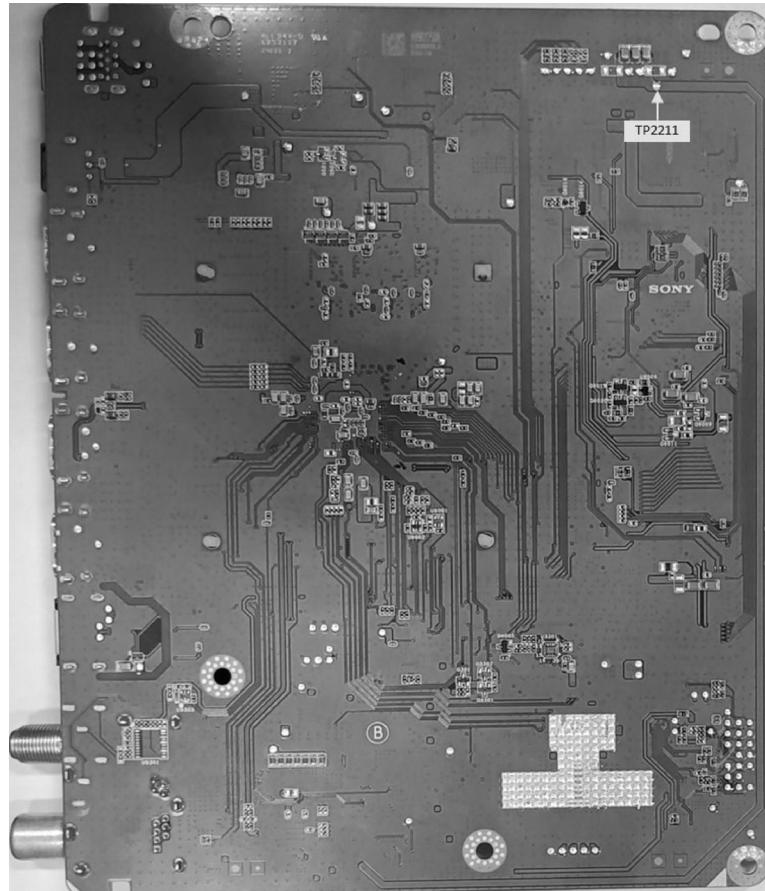
### 1.0 No Power - PSU

#### Board View

A-side



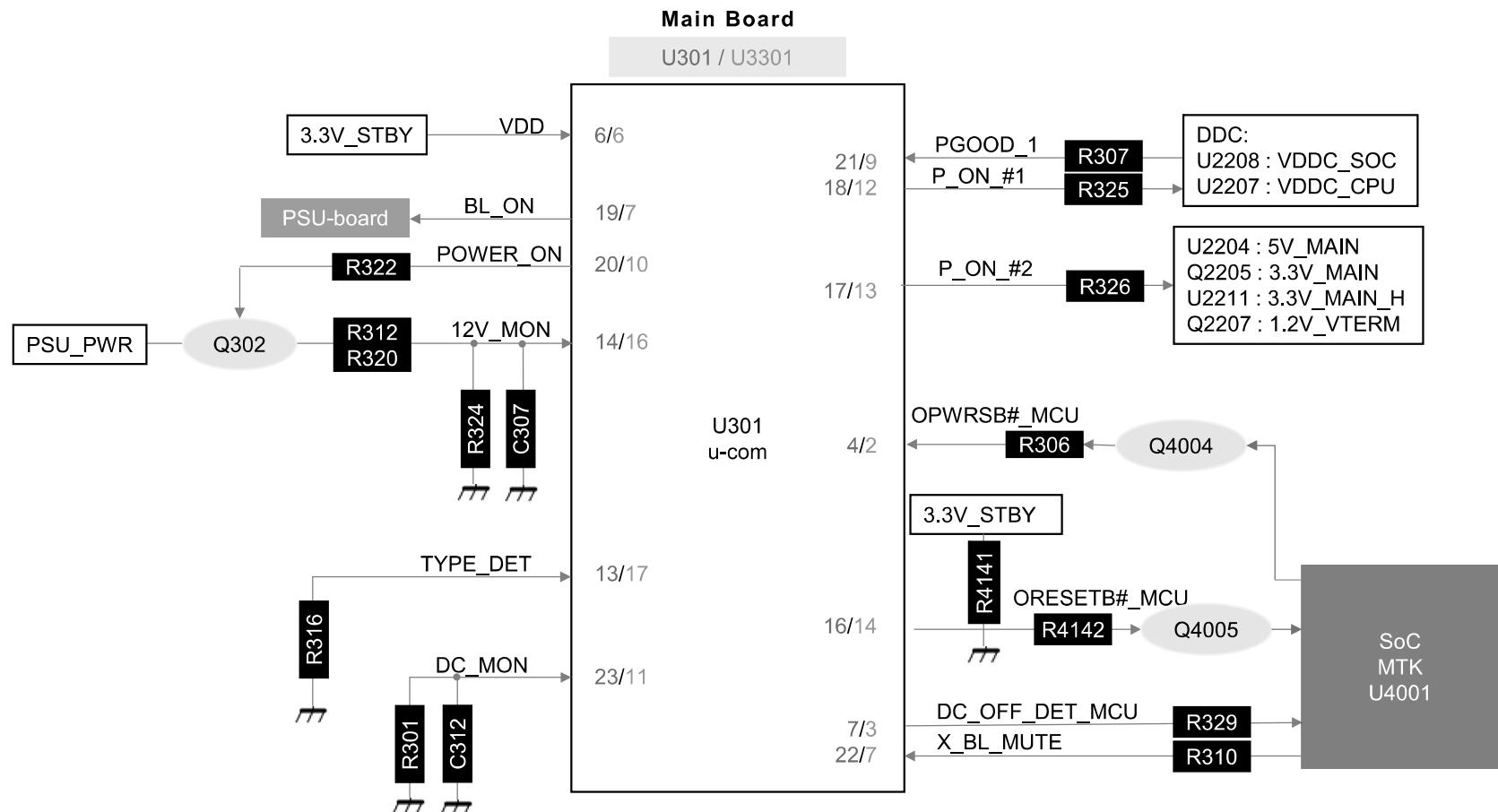
B-side



## TROUBLESHOOTING

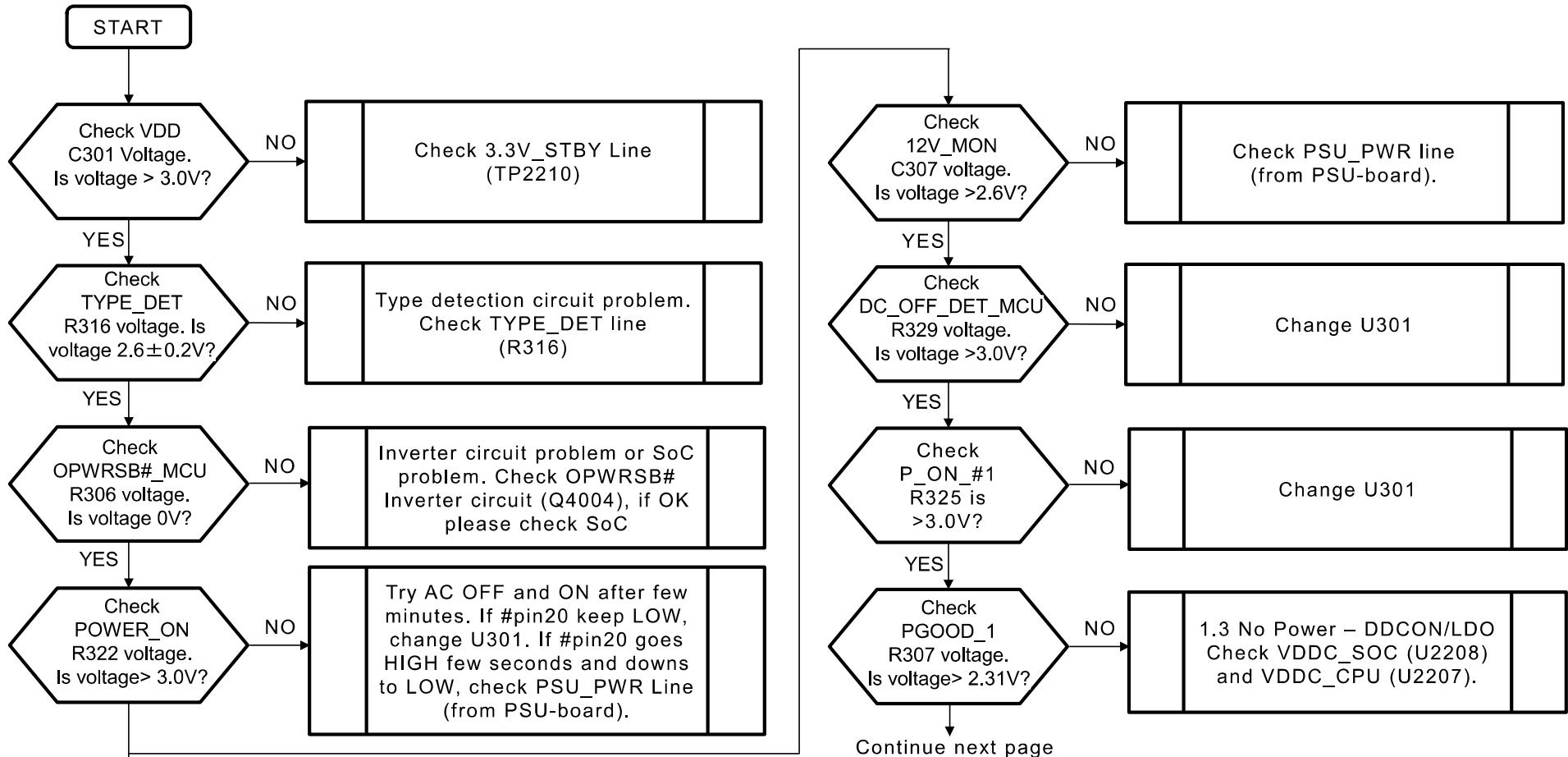
### 1.2 No Power U-Com Failure

### P-on u-com control signal path summary



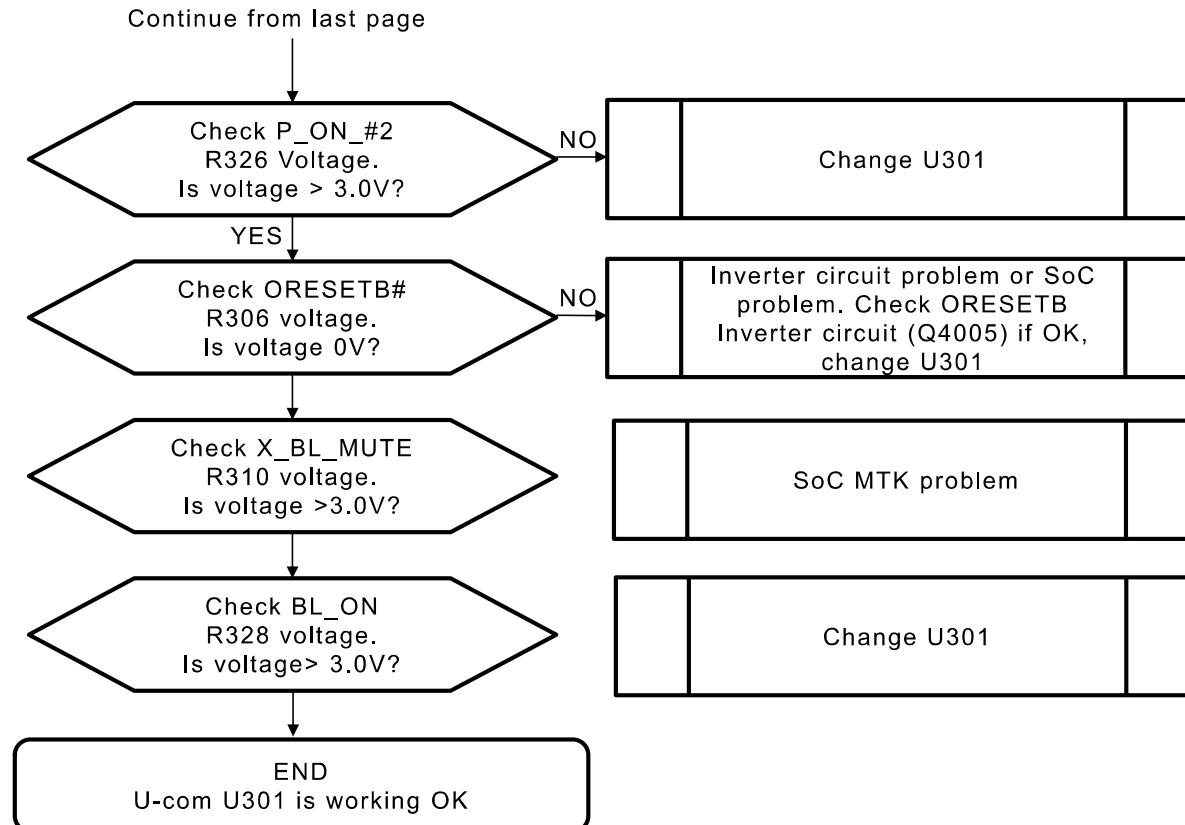
## TROUBLESHOOTING

### 1.2 No Power U-Com Failure



## TROUBLESHOOTING

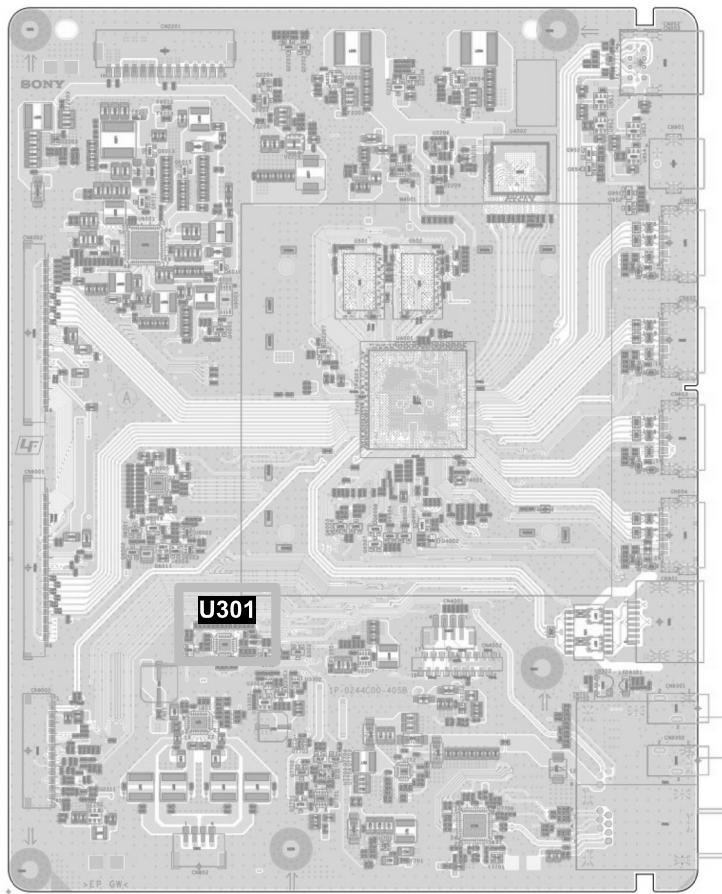
### 1.2 No Power U-Com Failure



## TROUBLESHOOTING

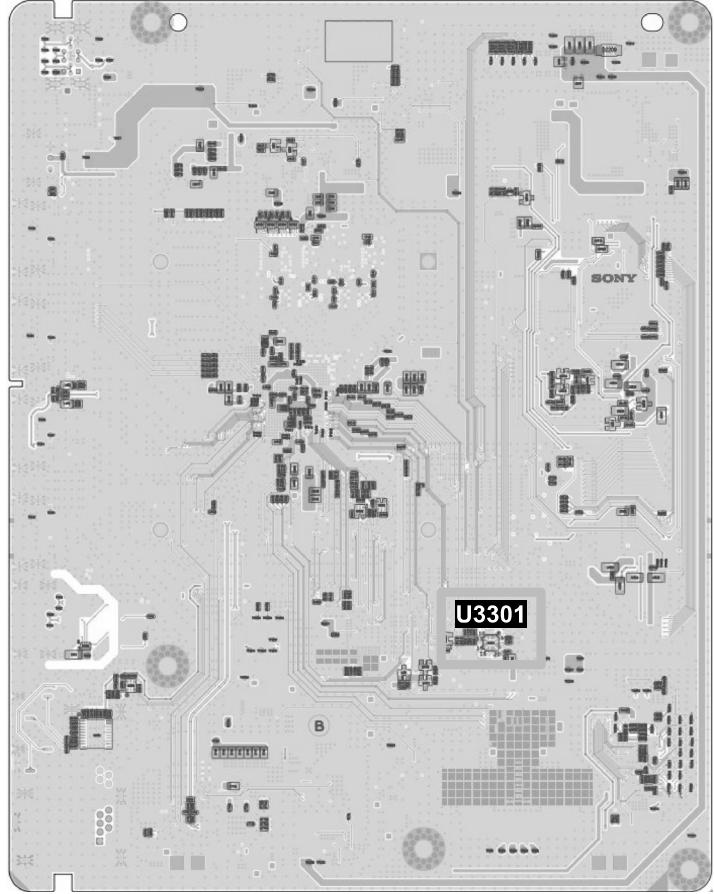
### 1.2 No Power U-Com Failure

Board View



A-side

Board View

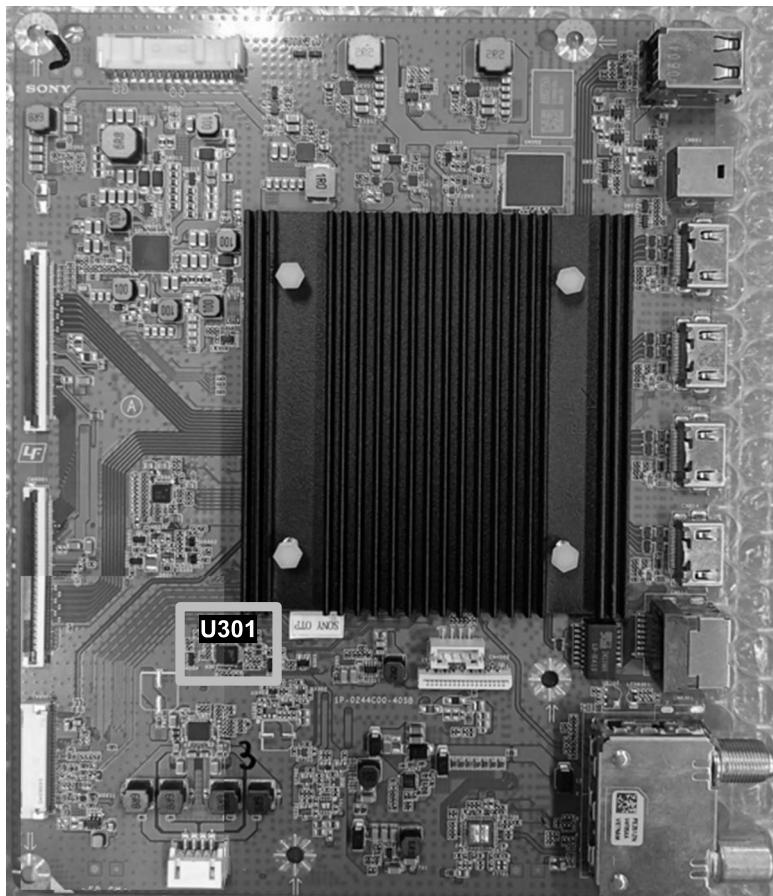


B-side

## TROUBLESHOOTING

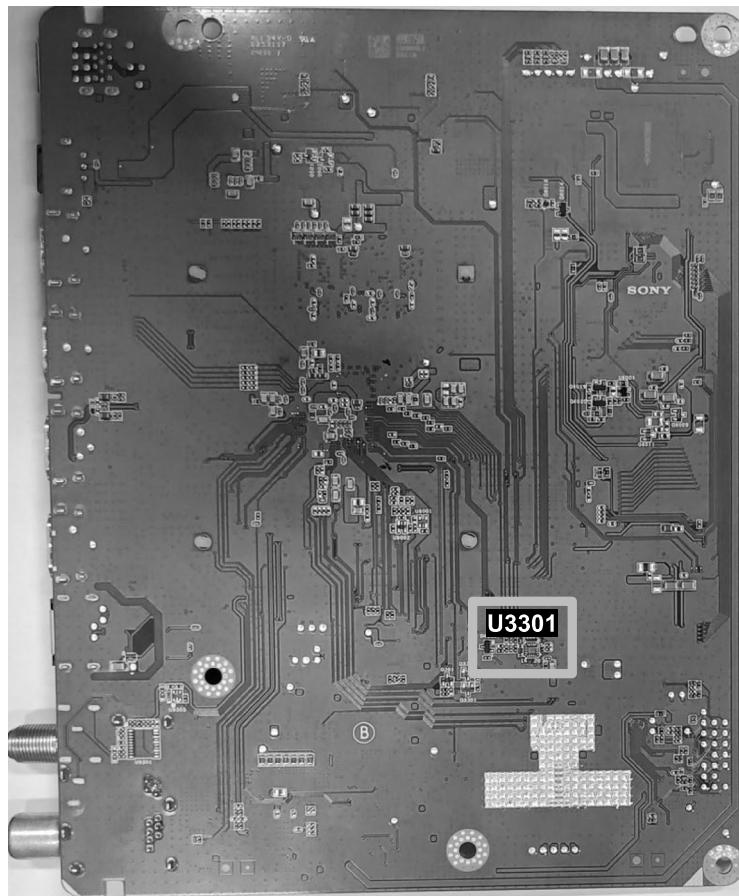
### 1.2 No Power U-Com Failure

Board View



A-side

Board View



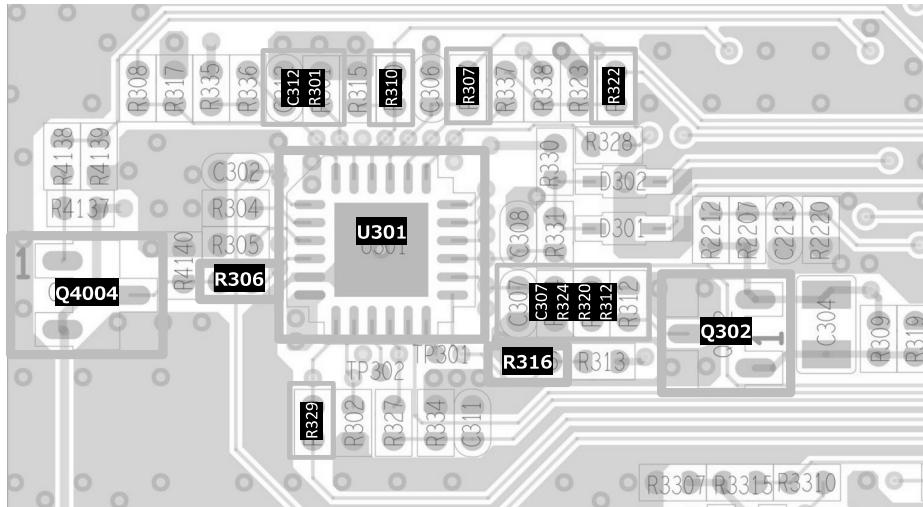
B-side

## TROUBLESHOOTING

## 1.2 No Power U-Com Failure

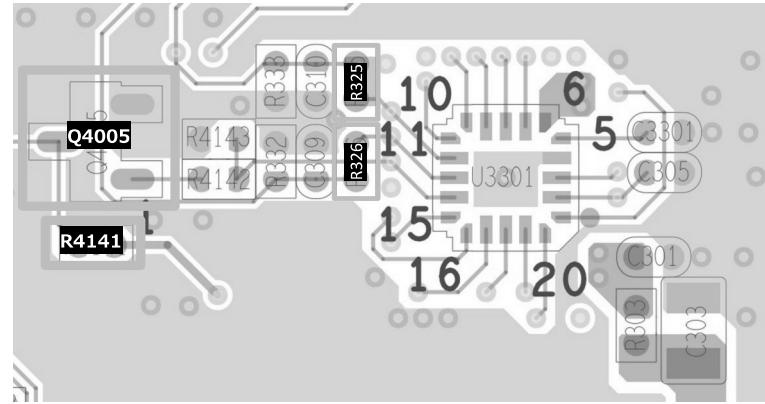
## Checking Point

A-side



## Checking Point

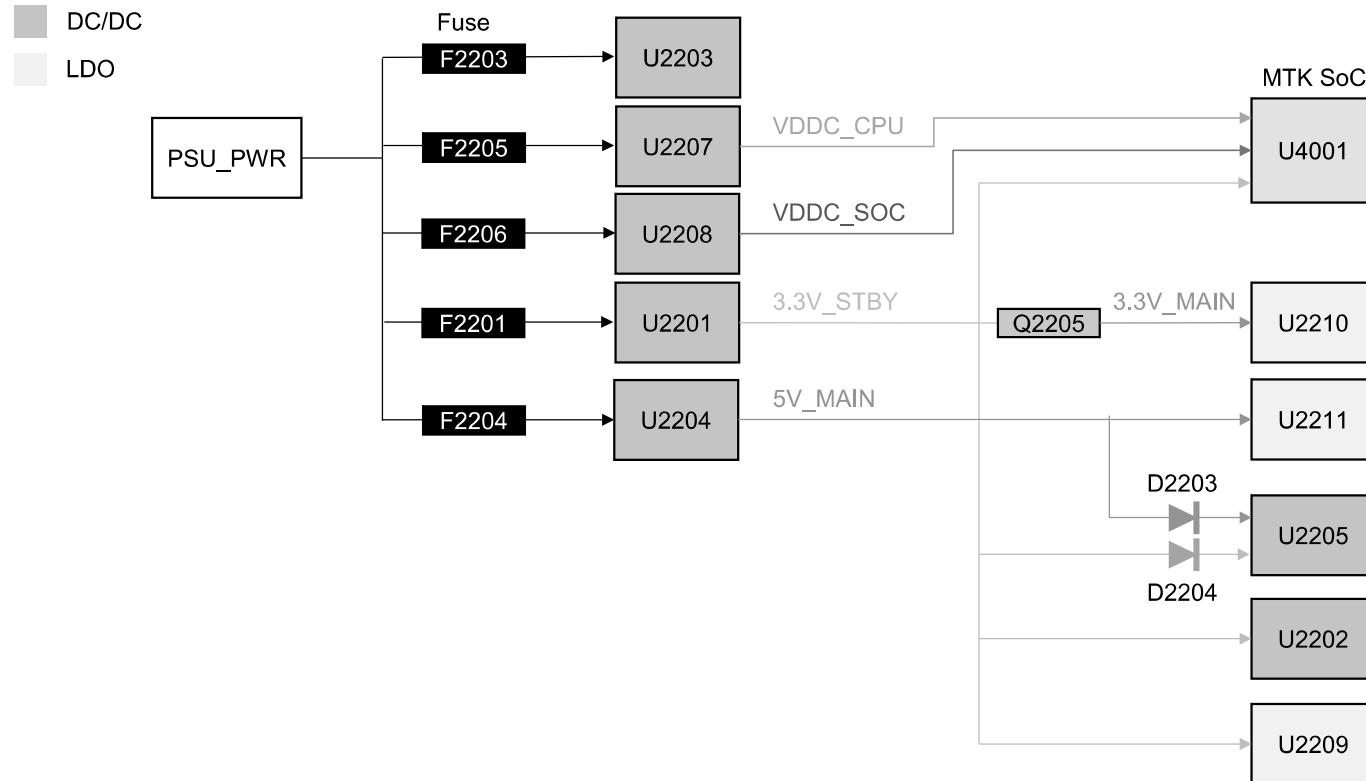
**B-side**



## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO

#### Power Line Overview



## TROUBLESHOOTING

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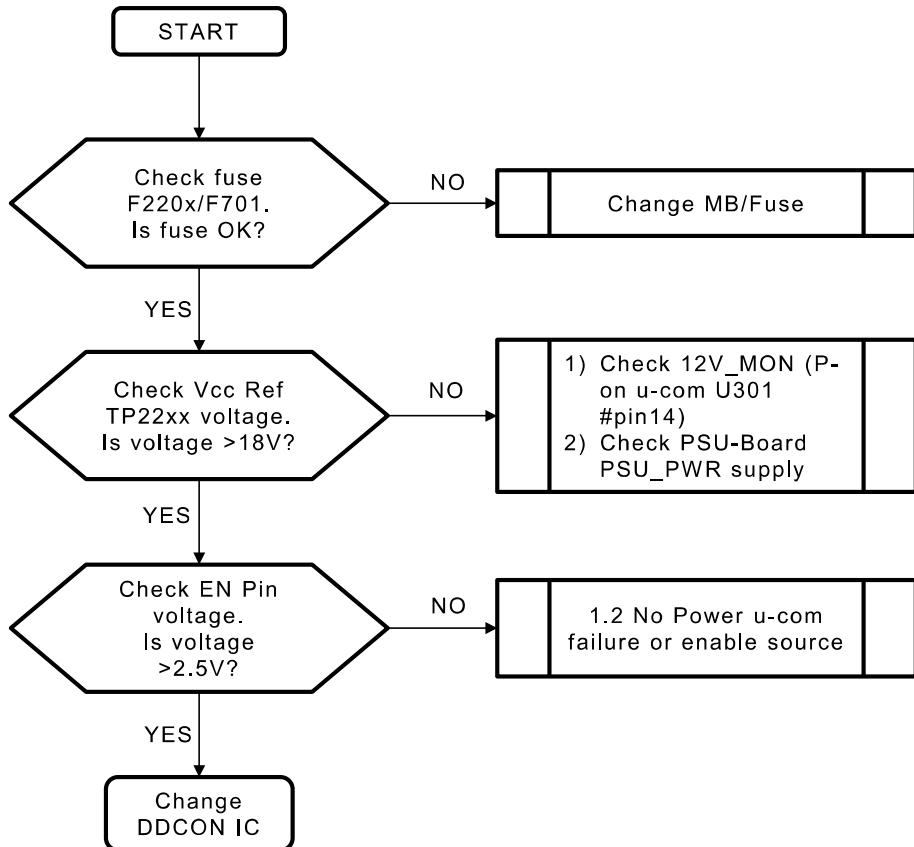
### 1.3 No Power DDCON / LDO

#### Check Item Summary

Board	Operation	REF	Power Line	Vcc Ref	Input Supply	Output Ref	EN Pin	EN Source	Fuse
MB	DC/DC	U2207	VDDC_CPU	C2277	PSU_PWR	C2281	U2207 #6	P_ON_#1	F2205
	DC/DC	U2208	VDDC_SOC	C2290	PSU_PWR	C2293	U2208 #19	P_ON_#1	F2206
	DC/DC	U2205	1.2V_DDR4	C2266	3.3V_STBY/5V_MAIN	C2269	U2205 #4	U2206 Reset IC	-
	LDO	U2209	2.5V_DDR	C2310	3.3V_STBY	C2312	U2209 #3	U2206 Reset IC	-
	LDO	U2210	1.8V_EMMC	C2315	3.3V_MAIN	C2317	U2210 #3	3.3V_MAIN	-
	DC/DC	U2202	5V_STBY	C2229	3.3V_STBY	C2231	U2202 #6	3.3V_STBY	-
	LDO	U2211	3.3V_MAIN_H	C2319	5V_MAIN	C2321	U2211 #3	P_ON_#2	-
	DC/DC	U2203	TCON_12V	C2239	PSU_PWR	C2243	U2203 #6	TCON_ON	F2203
	DC/DC	U2201	3.3V_STBY	C2216	PSU_PWR	C2221	U2201 #1	EN_SB	F2201
	DC/DC	U2204	5V_MAIN	C2252	PSU_PWR	C2256	U2204 #15	P_ON_#2	F2204
	DC/DC	U701	PWR_RF	C714	PSU_PWR	C717	U701 #6	P_ON_HL	F701

## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO (DDCON Check)



Please refer page 24 for Ref number

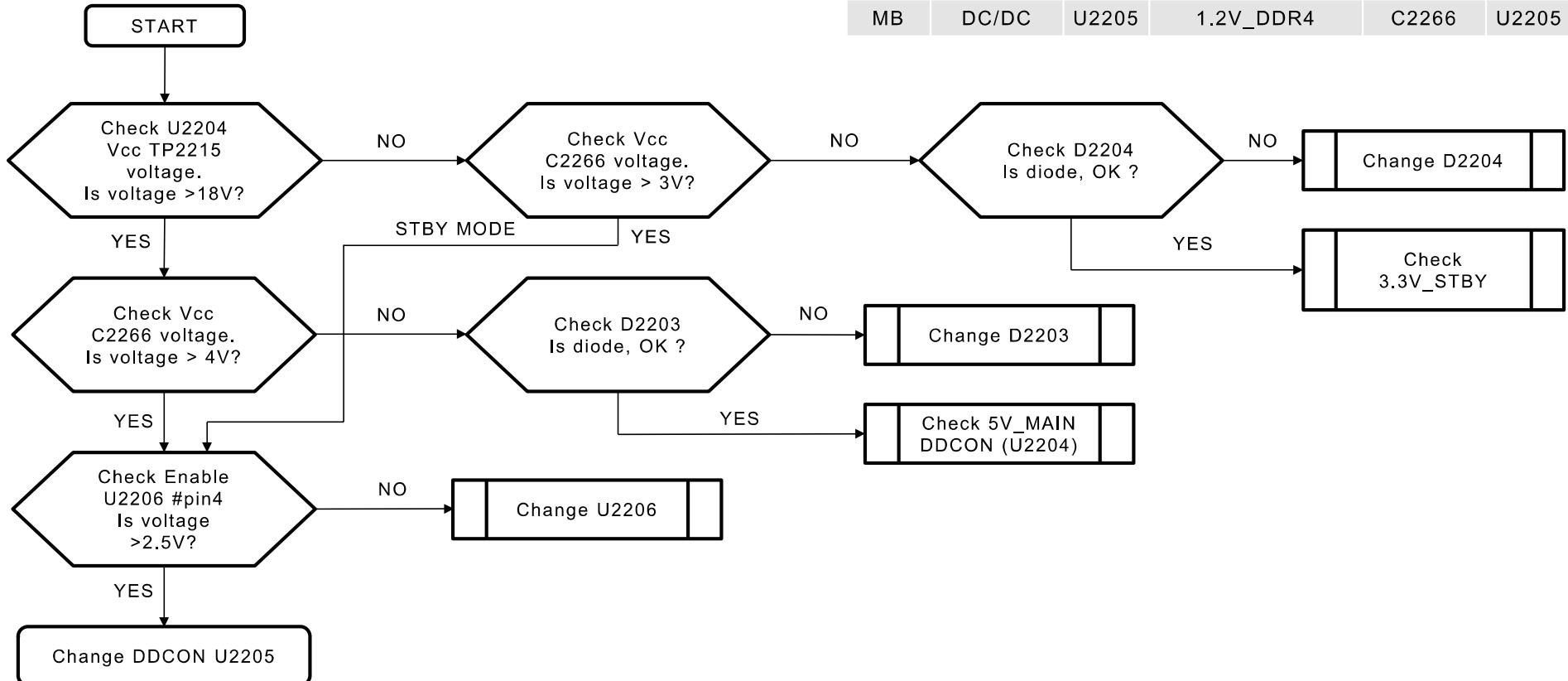
Board	Operation	IC Ref	Voltage supply	FUSE	Vcc Ref	EN Pin
MB	DC/DC	U2207	VDDC_CPU	F2205	TP2217	U2207 #6
	DC/DC	U2208	VDDC_SOC	F2206	TP2218	U2208 #19
	DC/DC	U2201	3.3V_STBY	F2201	TP2210	U2201 #1
	DC/DC	U2203	TCON_12V	F2203	TP2214	U2203 #6
	DC/DC	U2204	5V_MAIN	F2204	TP2215	U2204 #15
	DC/DC	U701	PWR_RF	F701	C717	U701 #6

## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO (DDCON Check)

Please refer page 24 for Ref number

Board	Operation	IC Ref	Voltage supply	Vcc Ref	EN Pin
MB	DC/DC	U2205	1.2V_DDR4	C2266	U2205 #4

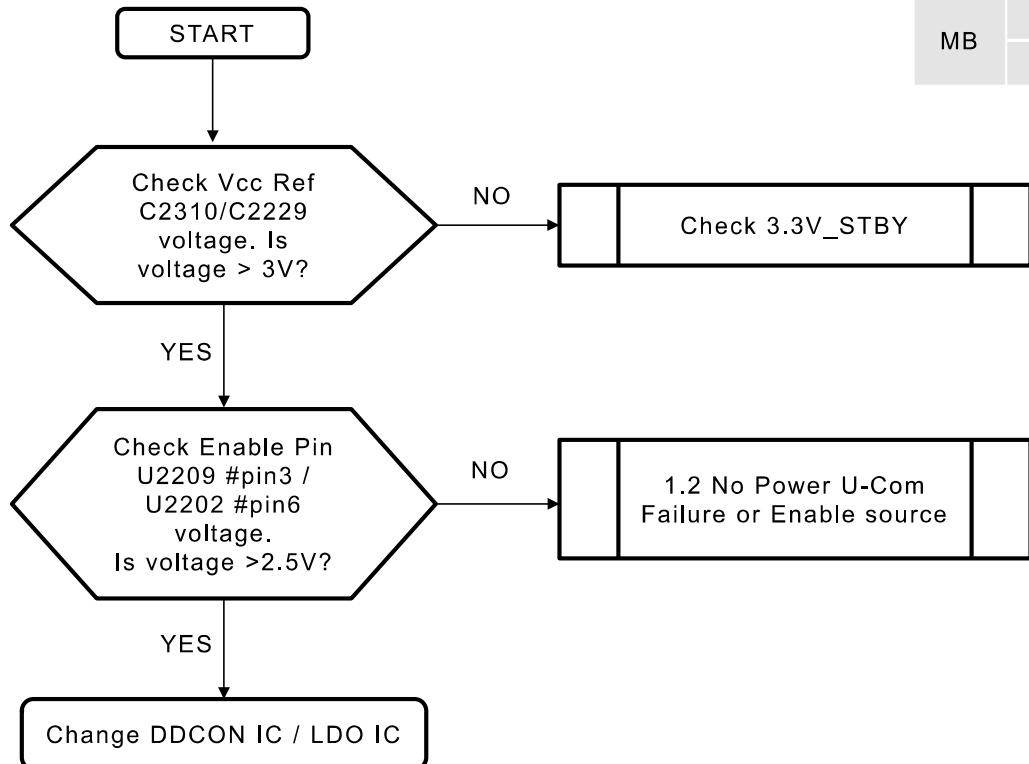


## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO (DDCON Check)

Please refer page 24 for Ref number

Board	Operation	IC Ref	Voltage supply	Vcc Ref	EN Pin
MB	LDO	U2209	2.5V_DDR	C2310	U2209 #3
	DC/DC	U2202	5V_STBY	C2229	U2202 #6

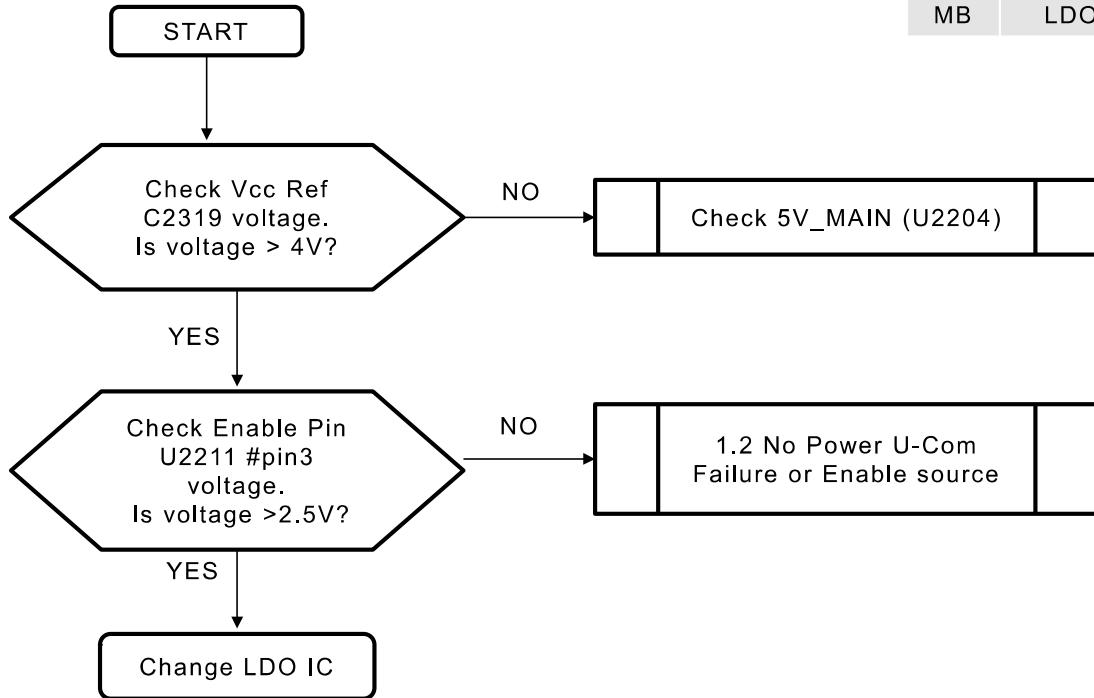


## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO (DDCON Check)

Please refer page 24 for Ref number

Board	Operation	IC Ref	Voltage supply	Vcc Ref	EN Pin
MB	LDO	U2211	3.3V_MAIN_H	C2319	U2211 #3

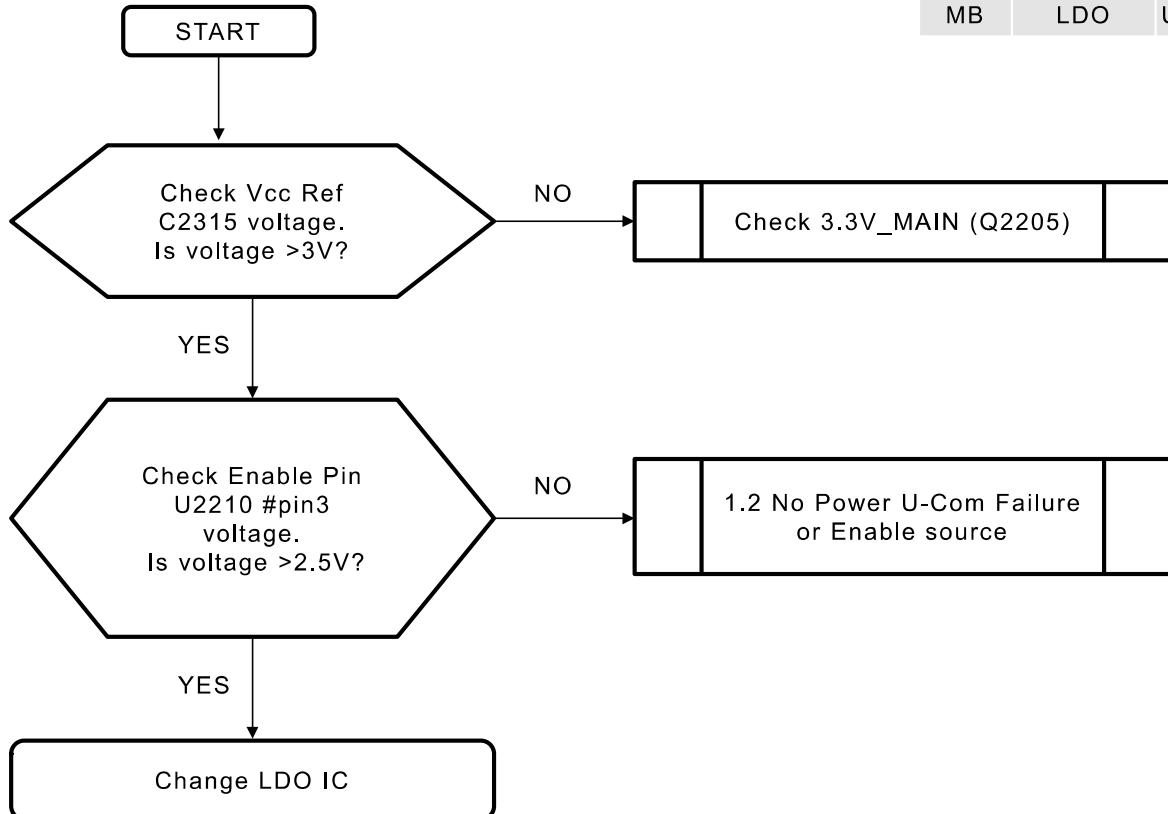


## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO (DDCON Check)

Please refer page 24 for Ref number

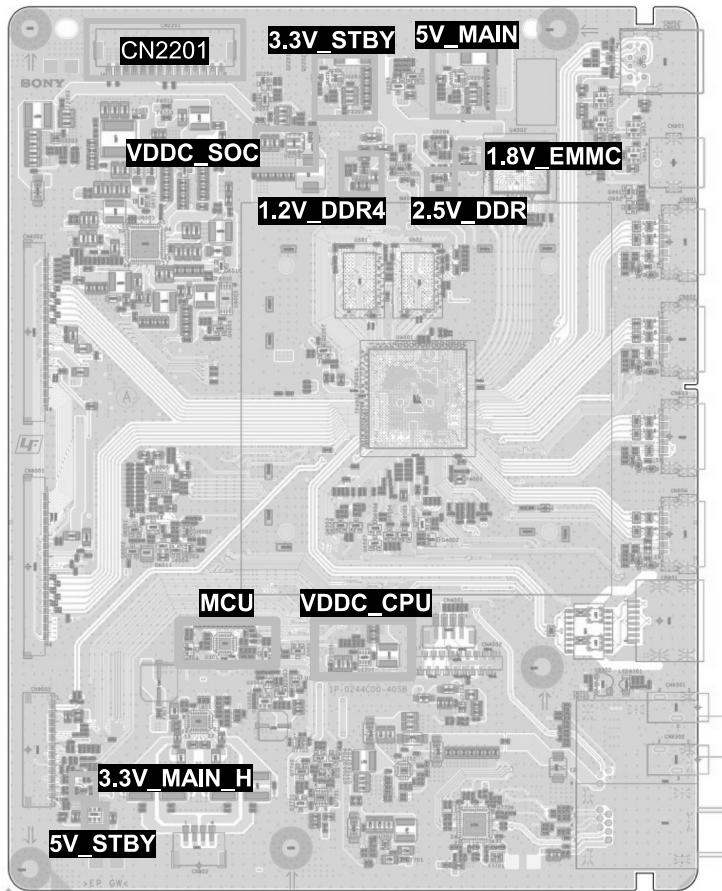
Board	Operation	IC Ref	Voltage supply	Vcc Ref	EN Pin
MB	LDO	U2210	1.8V_EMMC	C2315	U2210 #3



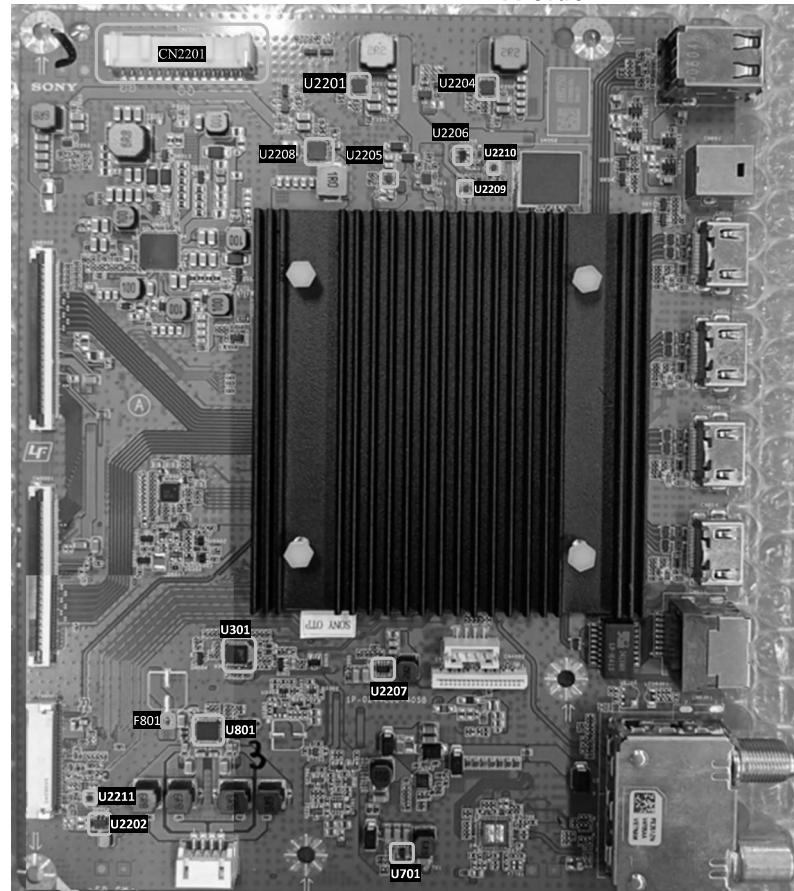
## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO

#### Board View - Layout



#### Board View - PWB

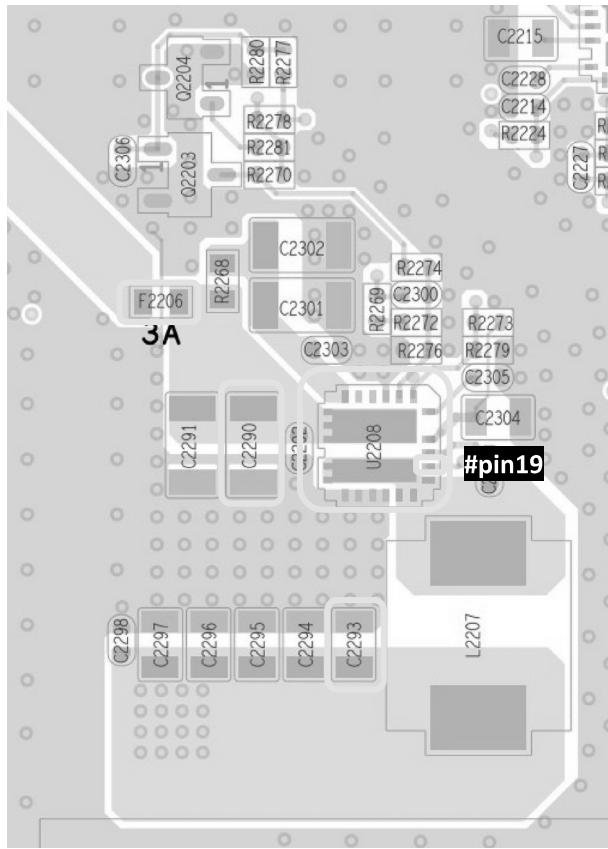


## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO

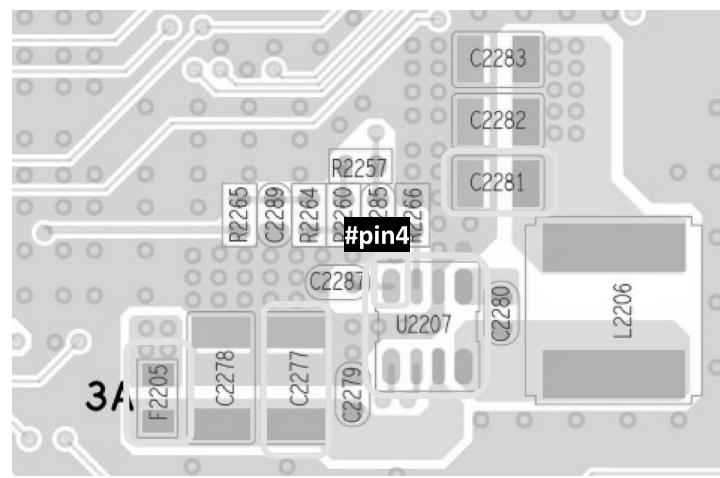
Checking Point – U2208 – VDDC\_SOC

A-side



Checking Point – U2207 – VDDC\_CPU

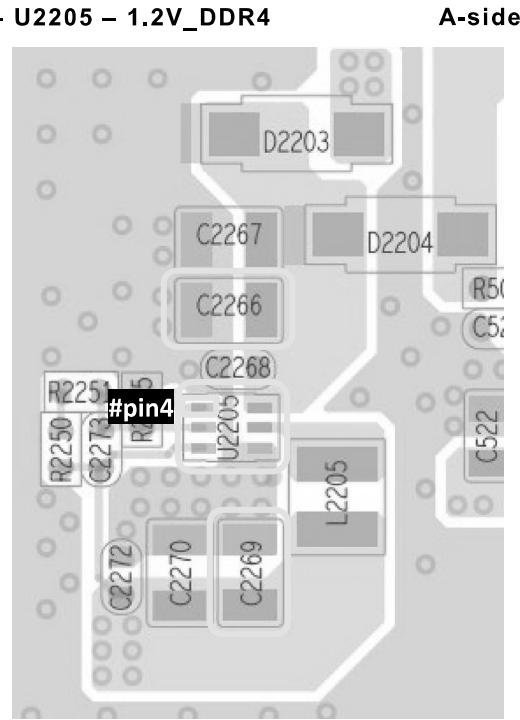
A-side



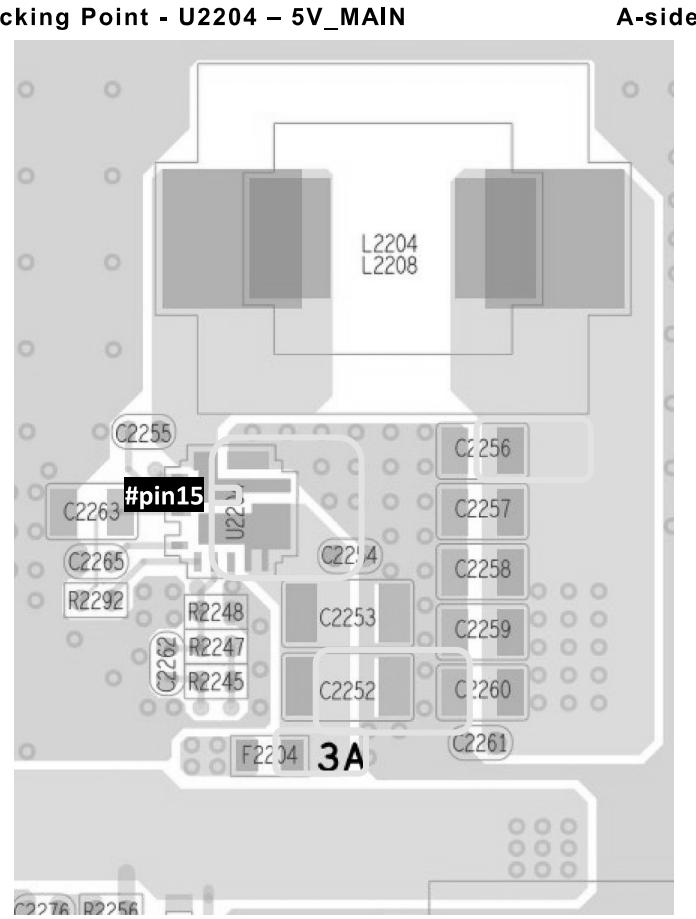
## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO

Checking Point – U2205 – 1.2V\_DDR4



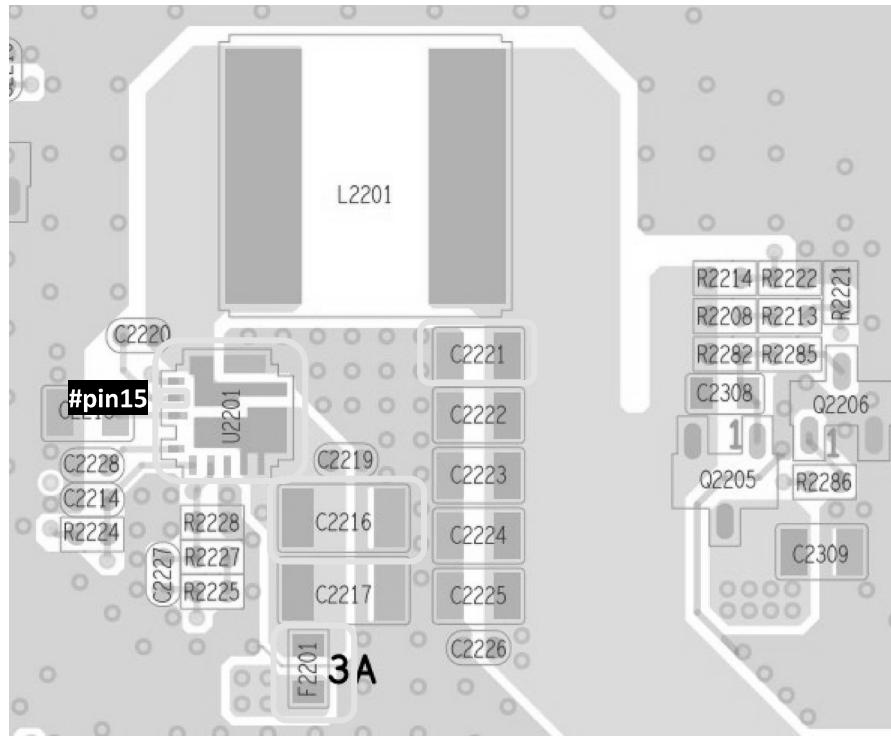
Checking Point - U2204 – 5V\_MAIN



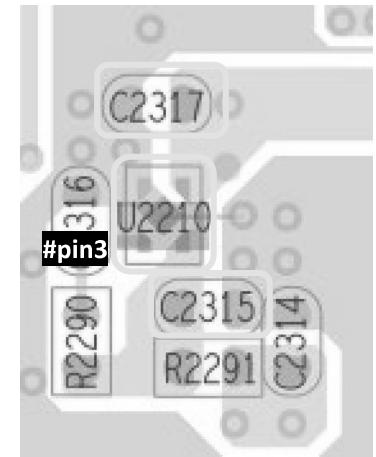
## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO

Checking Point – U2201 –3.3V\_STBY



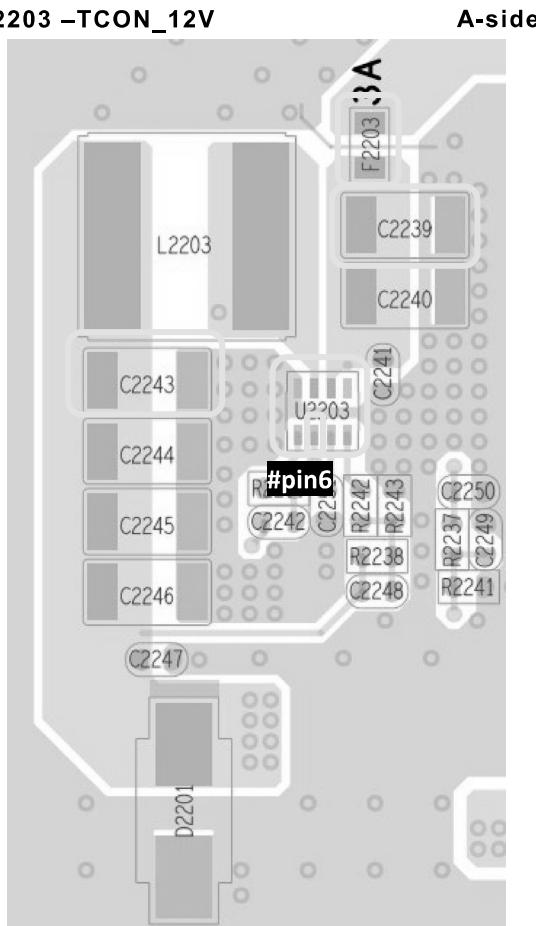
Checking Point – U2210 – 1.8V\_EMMC



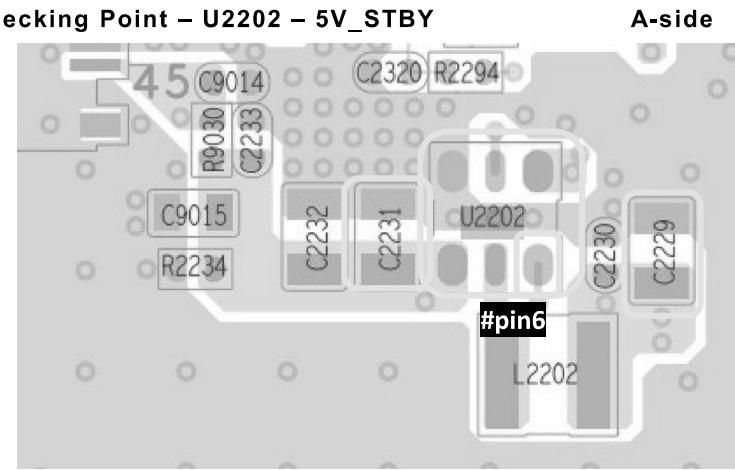
## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO

Checking Point - U2203 –TCON\_12V



## Checking Point – U2202 – 5V\_STBY

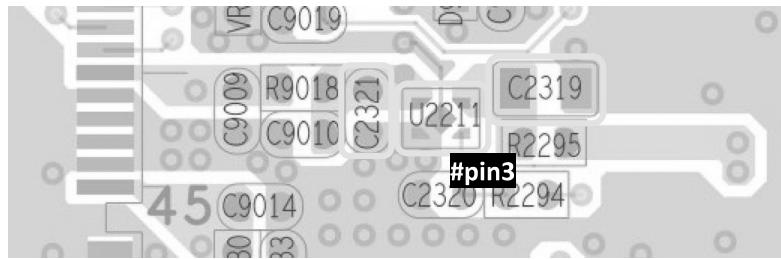


## TROUBLESHOOTING

### 1.3 No Power DDCON / LDO

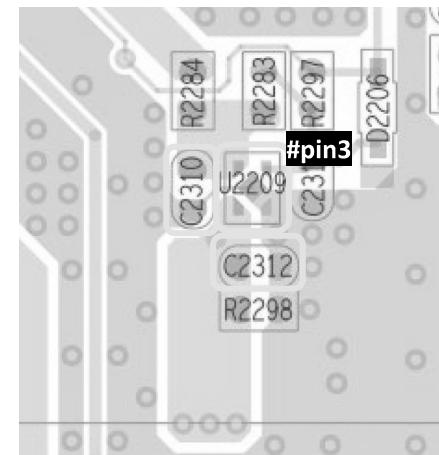
Checking Point – U2211 – 3.3V\_MAIN\_H

A-side



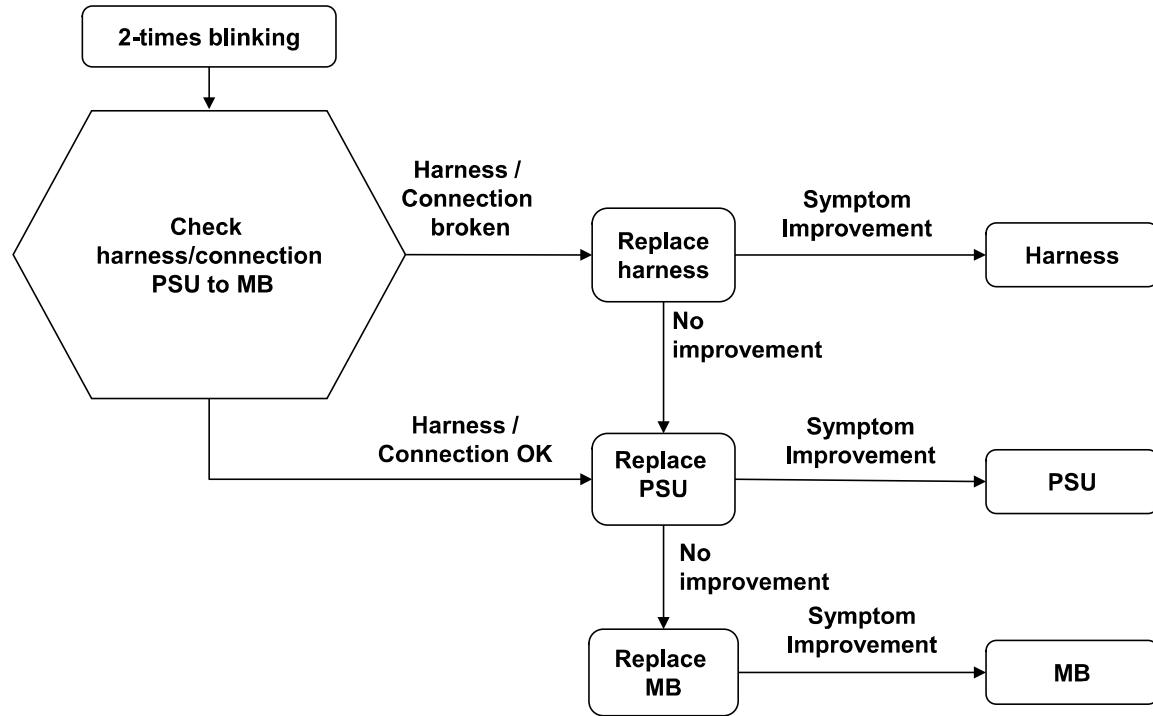
Checking Point – U2209 – 2.5V\_DDR

A-side



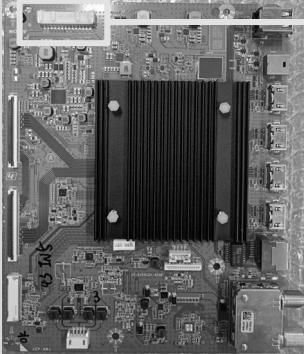
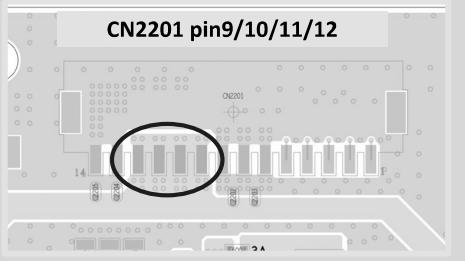
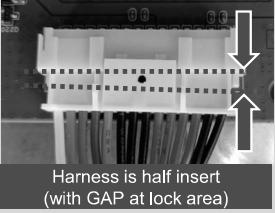
## TROUBLESHOOTING

### 2.0 LED Blinking – 2x Main Power Error



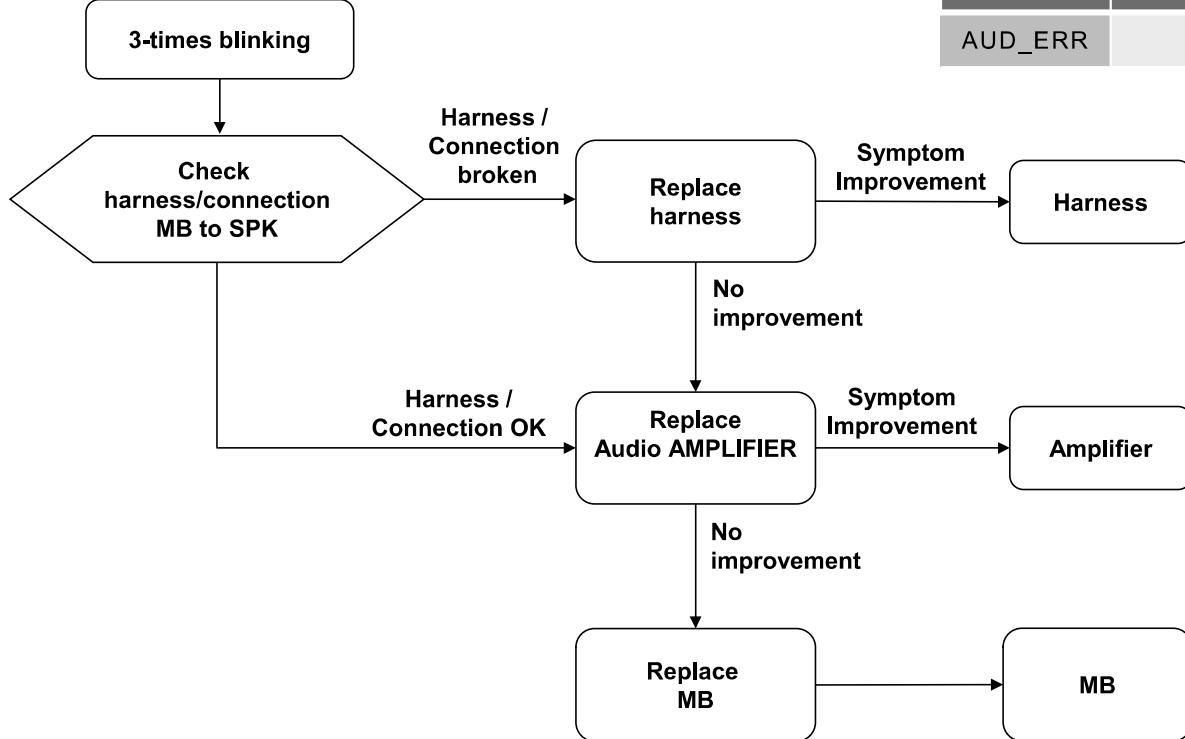
## TROUBLESHOOTING

### 2.0 LED Blinking – 2x Main Power Error

Checking Point	Board PWB (A side) & Cable	Detail
		 <p><b>CN2201 pin9/10/11/12</b></p>
		<div data-bbox="914 878 988 915"> <p><b>OK</b></p>  </div> <div data-bbox="1262 878 1336 915"> <p><b>NG</b></p>  <p><b>Harness is half insert (with GAP at lock area)</b></p> <div data-bbox="1262 1155 1537 1346">  <p><b>Terminal Pin retraction</b></p> </div> </div>

## TROUBLESHOOTING

### 2.2 3x Blinking – AUD\_ERR



Error Item	Number of STBY LED flashing	Description
AUD_ERR	3	Audio D.Amp error detection

## TROUBLESHOOTING

## 2.2 3x Blinking – AUD\_ERR

※Caution: Before start do checking point, please ensure TV in "Power off" condition for continuity check

## Checking Point

**Board PWB (A side) & Cable**

**Detail**

**OK**

**NG**

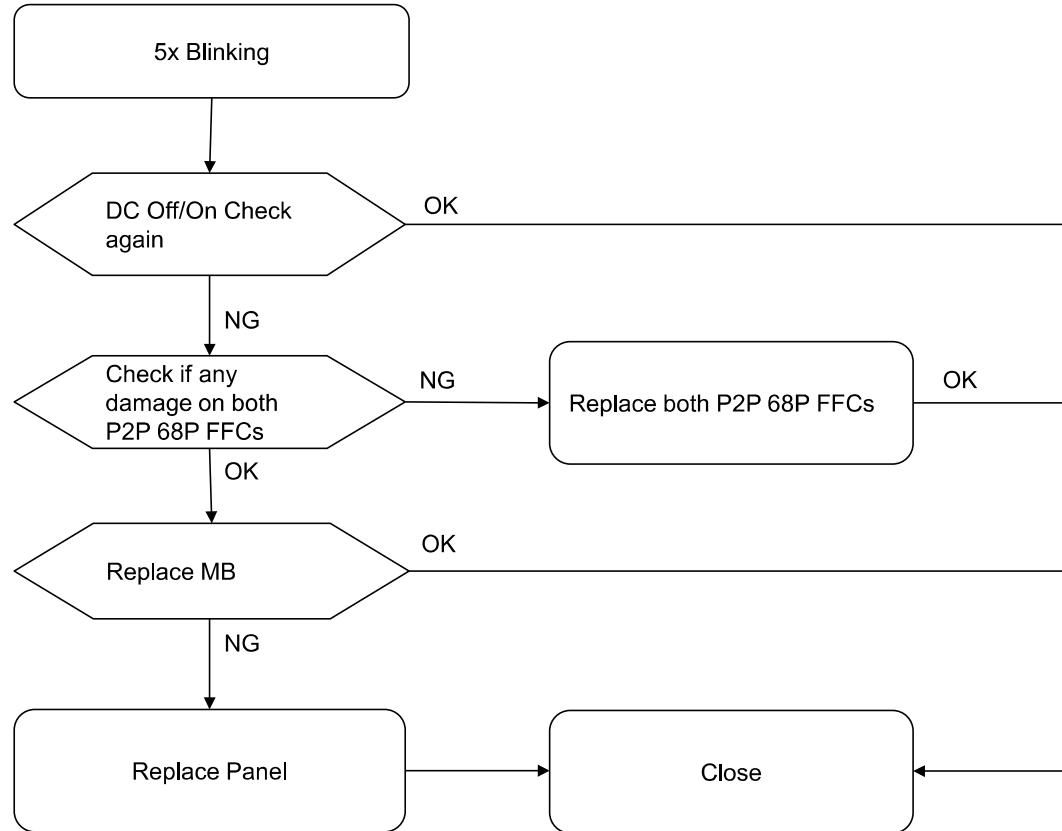
**Harness is half insert (with GAP at lock area)**

**Terminal Pin retraction**

The diagram illustrates the correct and incorrect insertion of a cable harness into a connector on a printed circuit board (PWB). The top left image shows the board with a cable harness. A white box highlights the connection point, which is then magnified in the 'Detail' diagram. The 'OK' image shows the harness fully inserted into the connector, with the terminal pins correctly seated. The 'NG' image shows the harness partially inserted, with a gap at the lock area and one terminal pin retracted. Labels in the 'Detail' diagram include '3A', 'U801', and various component designators like C801 through C834 and R801 through R816.

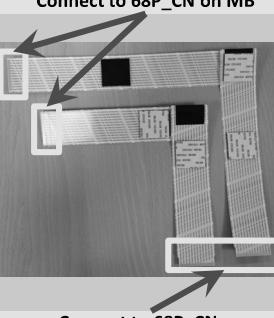
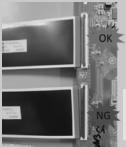
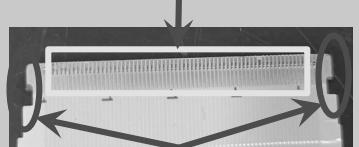
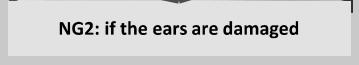
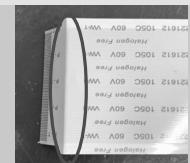
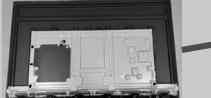
## TROUBLESHOOTING

### 2.5 5x Blinking – Panel ID Read Error



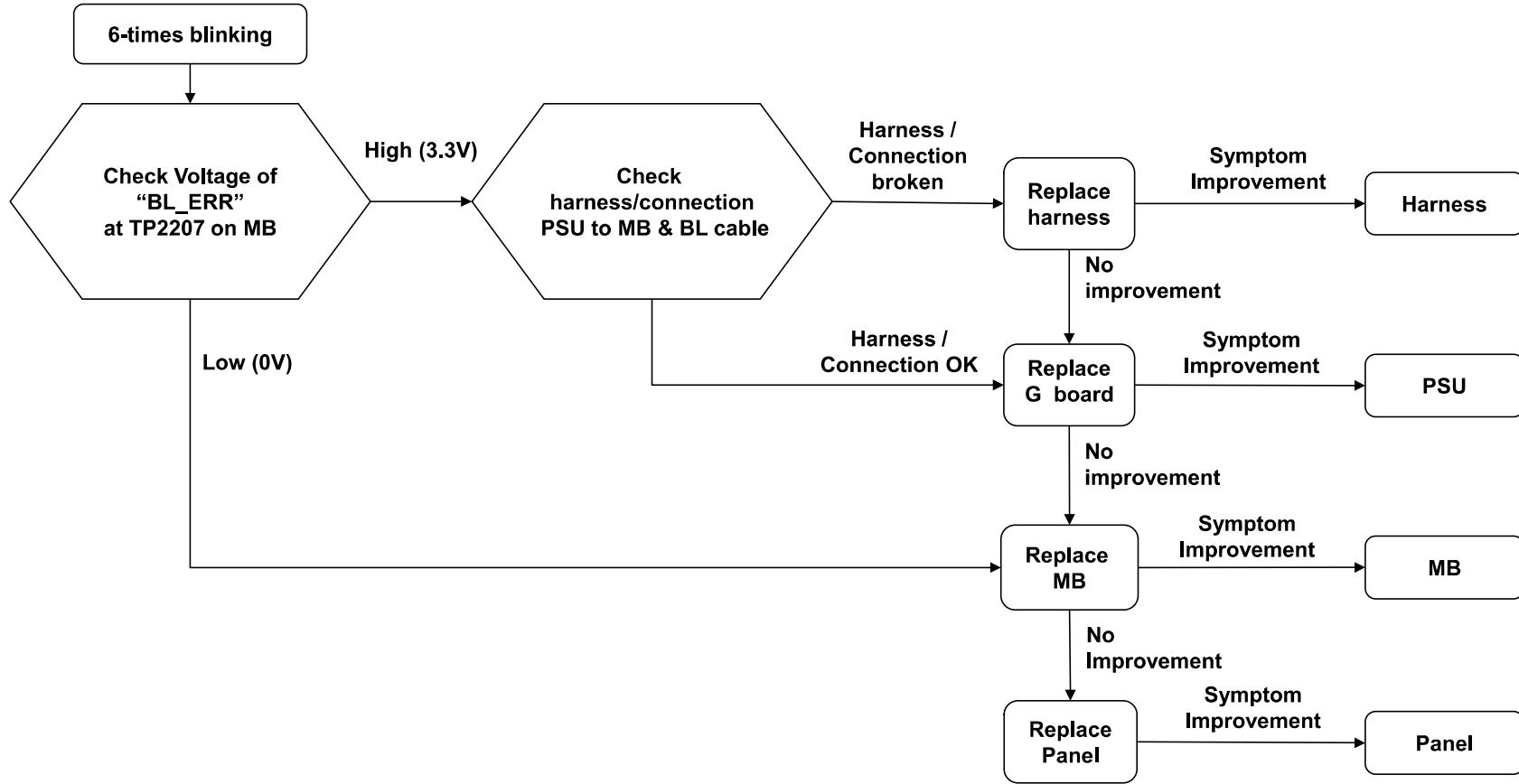
## TROUBLESHOOTING

### 2.5 5x Blinking – Panel ID Read Error

Check Point		
①	<p><b>Check harness &amp;connection "MB to Panel"</b></p> <p>Connect to 68P_CN on MB</p>  <p>Connect to 68P_CN on LCM_Source board</p>  <p>NG1: if the coppers are peeled off</p>  <p>NG2: if the ears are damaged</p>  <p>NG3: if FFC is bend out of shape</p>  <p>NG4: insert FFC in slanting condition</p> 	
②	<b>Replace MB</b>	 
③	<b>Replace LCM</b>	 

## TROUBLESHOOTING

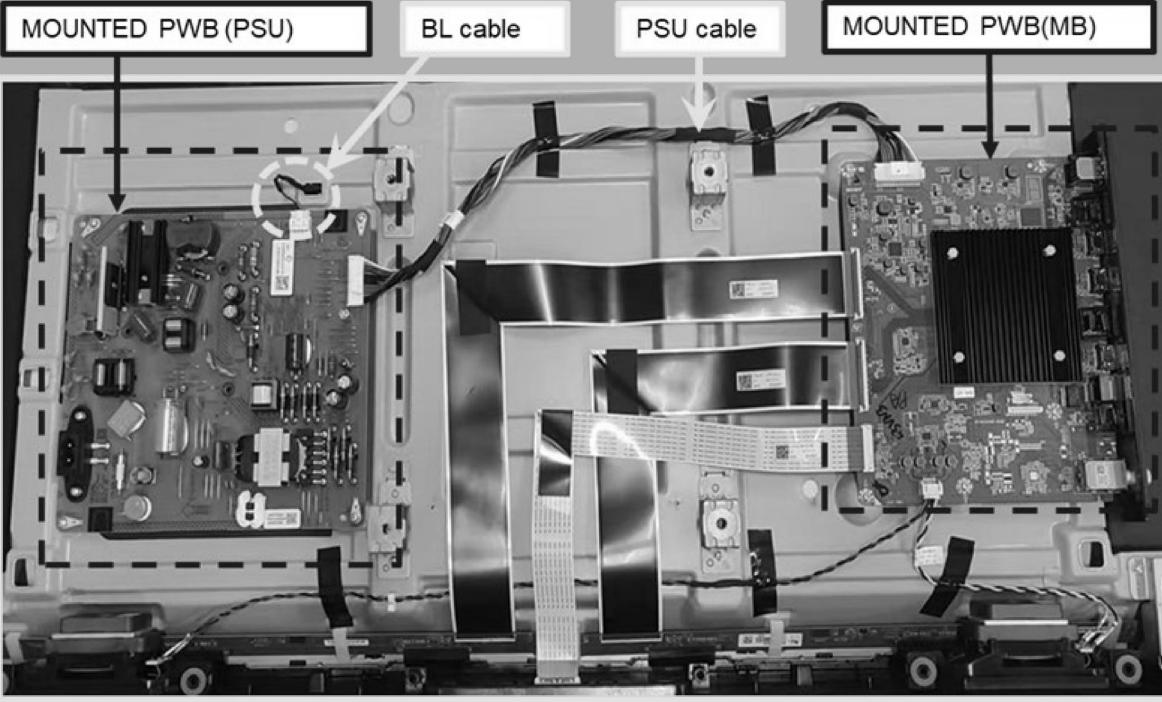
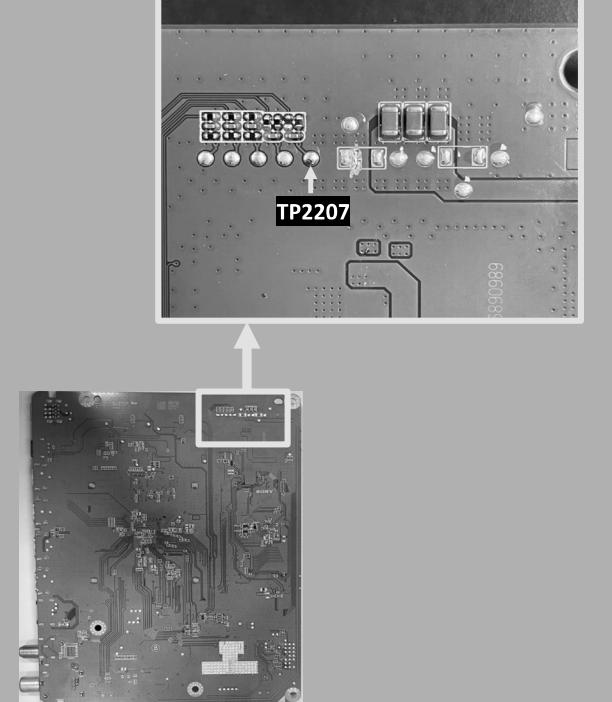
### 2.6 LED Blinking – 6x Backlight Error



## TROUBLESHOOTING

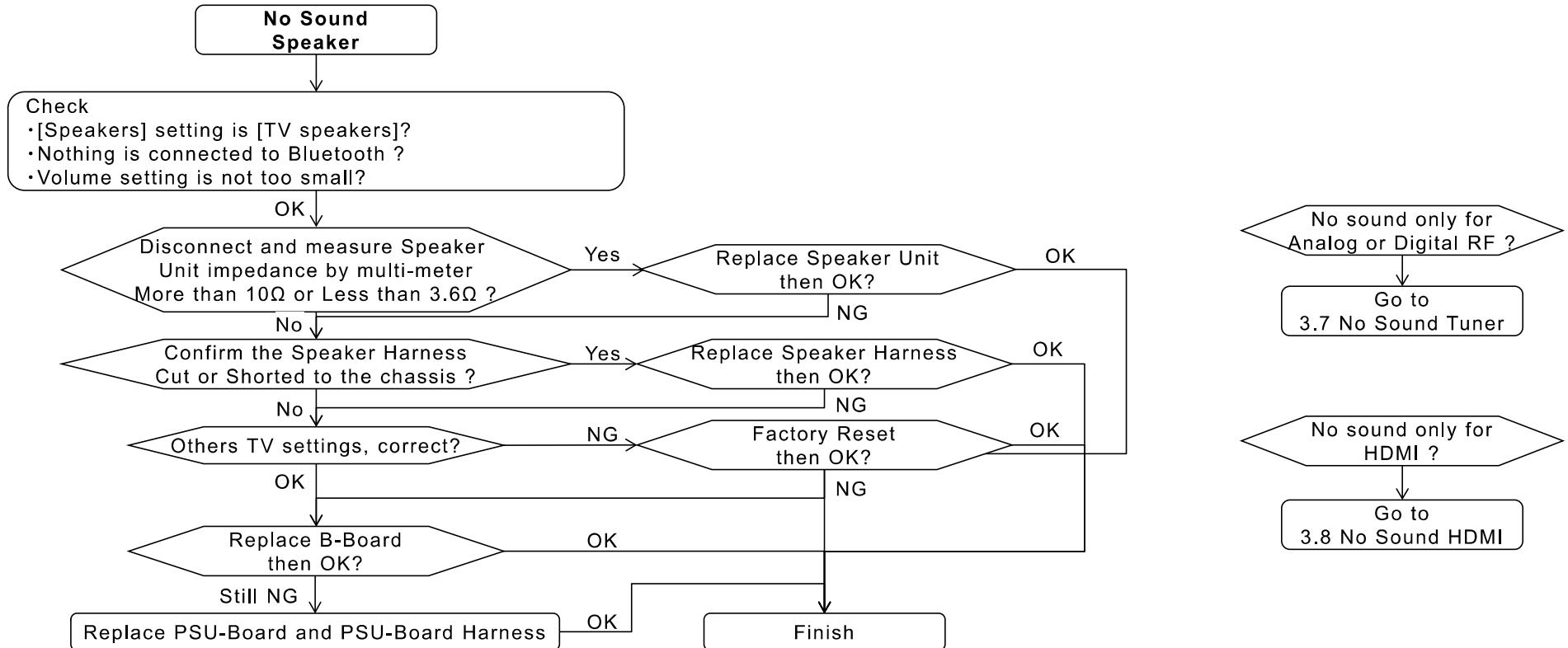
### 2.6 LED Blinking – 6X Backlight Error

#### Checking Point

Board & Cable location	Board PWB – MB (B-side)
 <p>MOUNTED PWB (PSU)</p> <p>BL cable</p> <p>PSU cable</p> <p>MOUNTED PWB(MB)</p>	 <p>TP2207</p>

## TROUBLESHOOTING

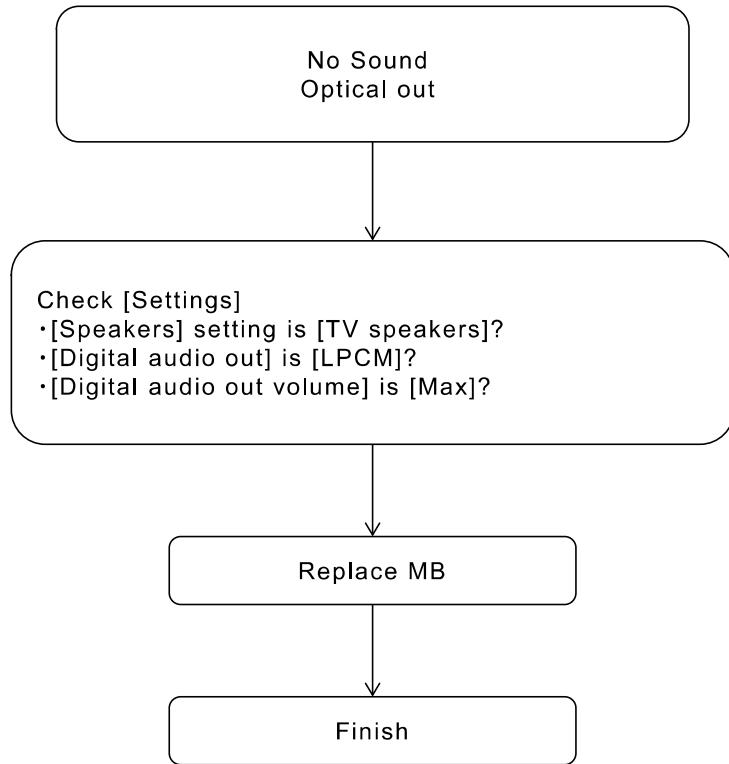
### 3.1 No Sound for speaker



## TROUBLESHOOTING

---

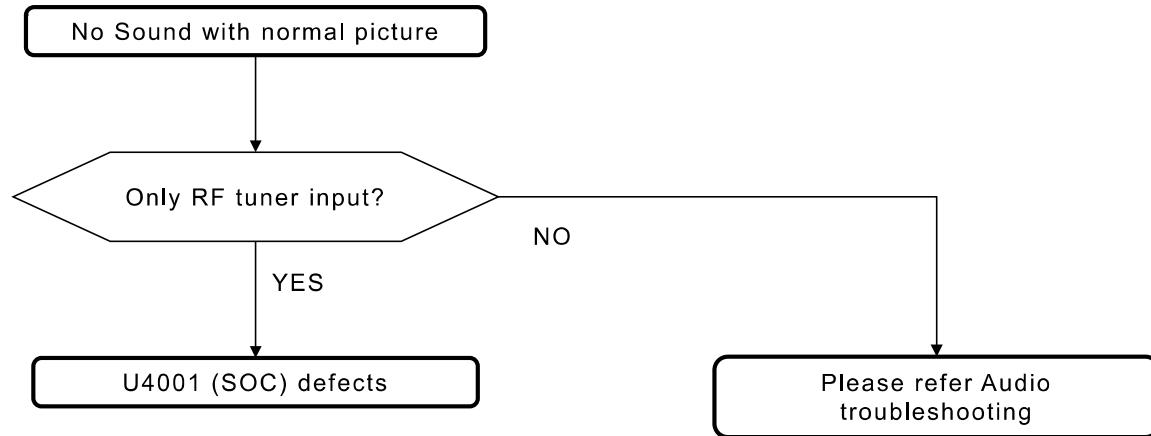
### 3.2 No Sound for Optical out



## TROUBLESHOOTING

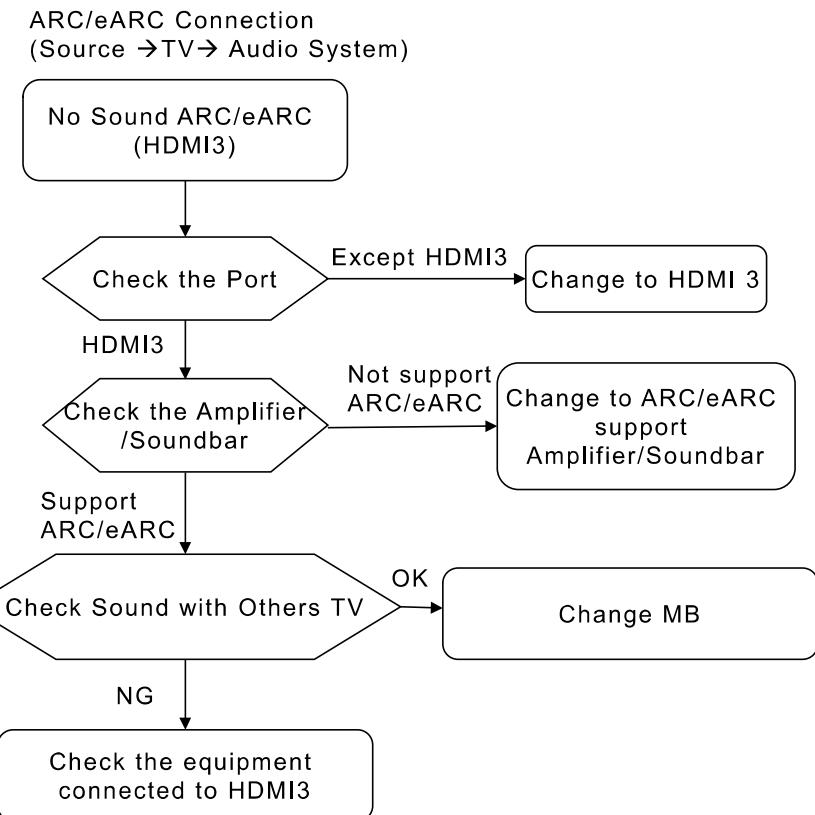
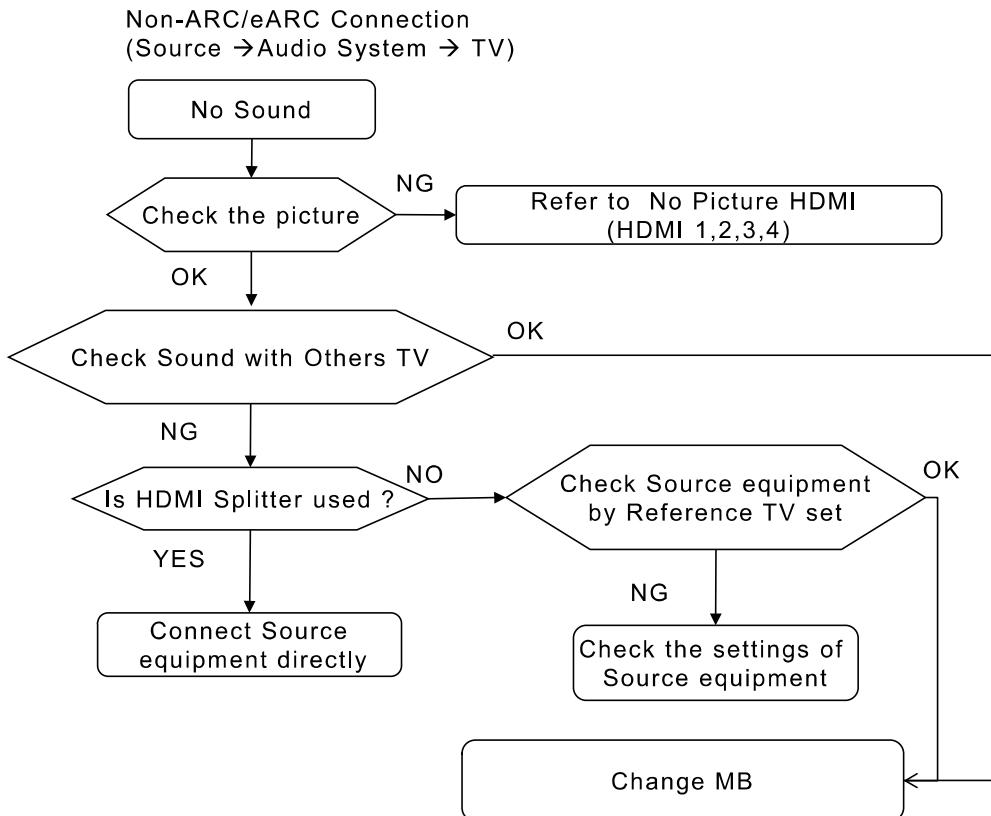
---

### 3.7 No Sound : @ Tuner



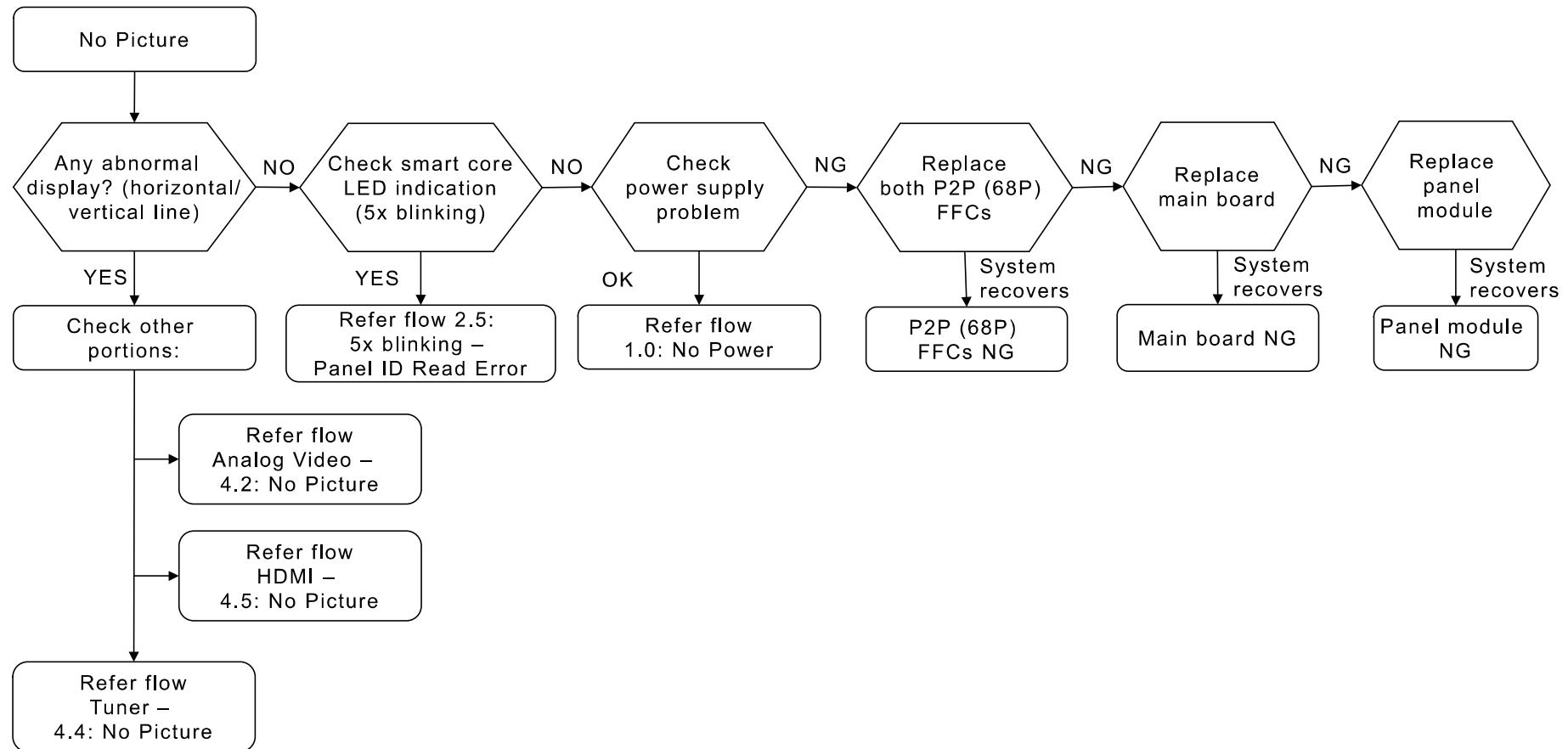
## TROUBLESHOOTING

### 3.8 No Sound : HDMI 1/2/3/4



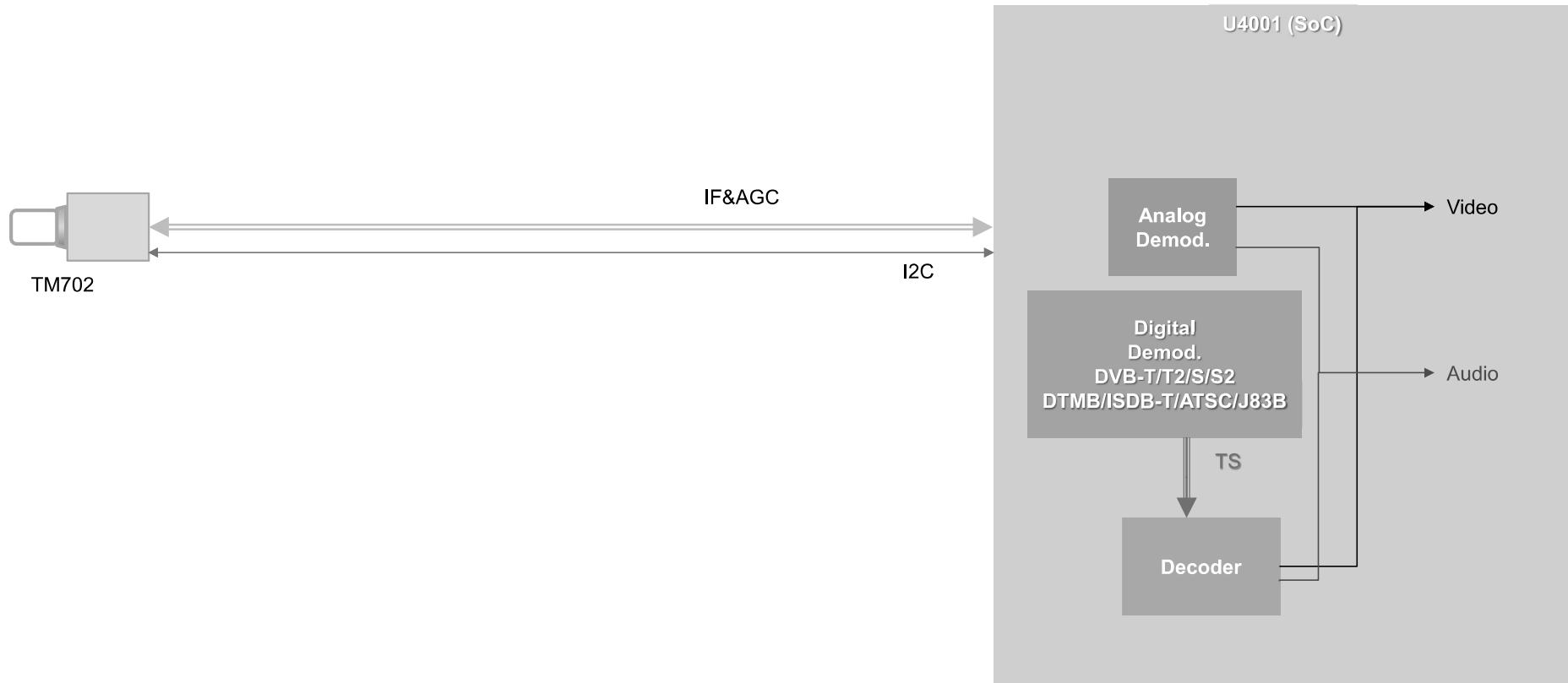
## TROUBLESHOOTING

### 4.0 No Picture



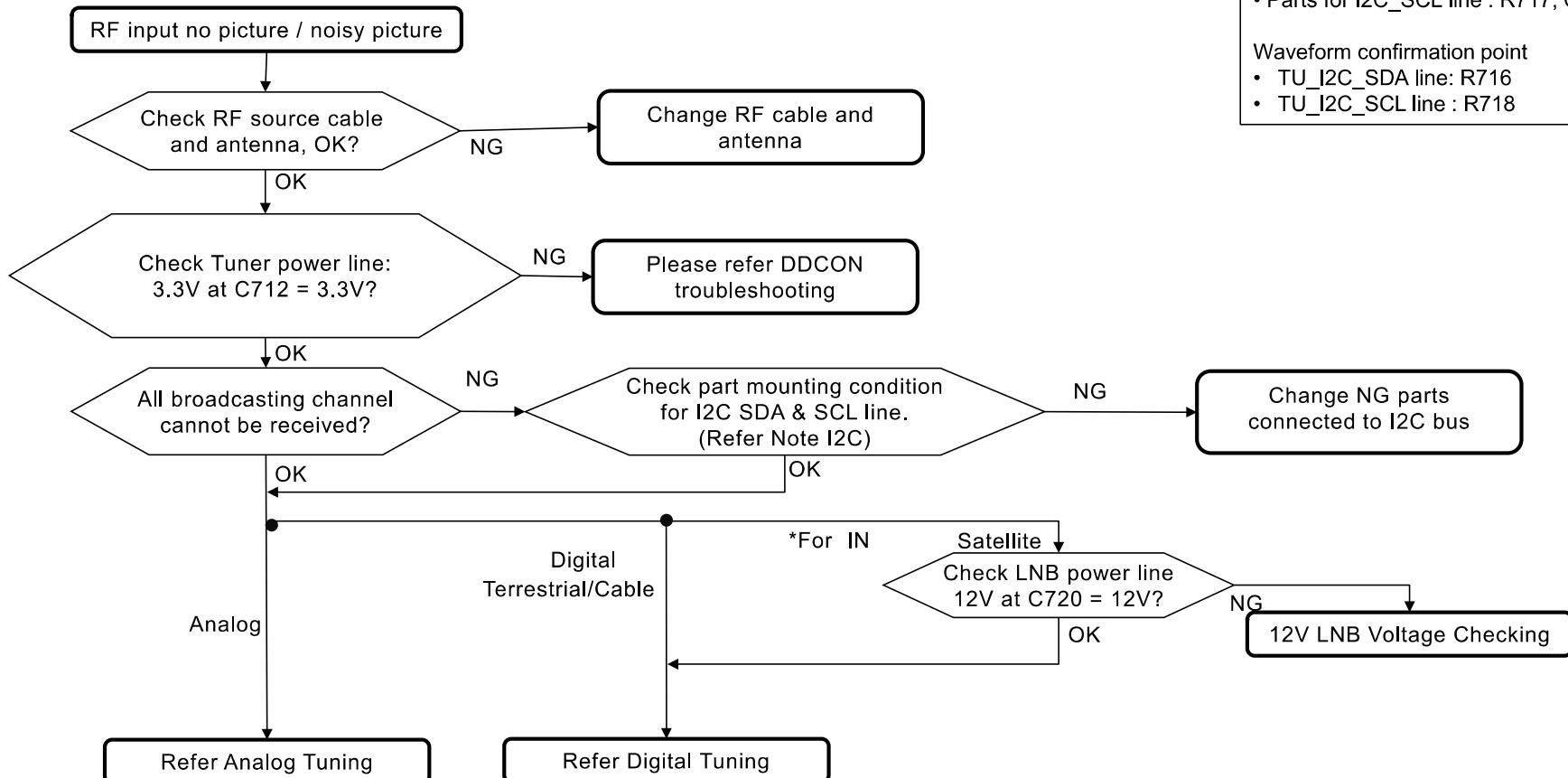
## TROUBLESHOOTING

### 4.4 No Picture : @ Tuner



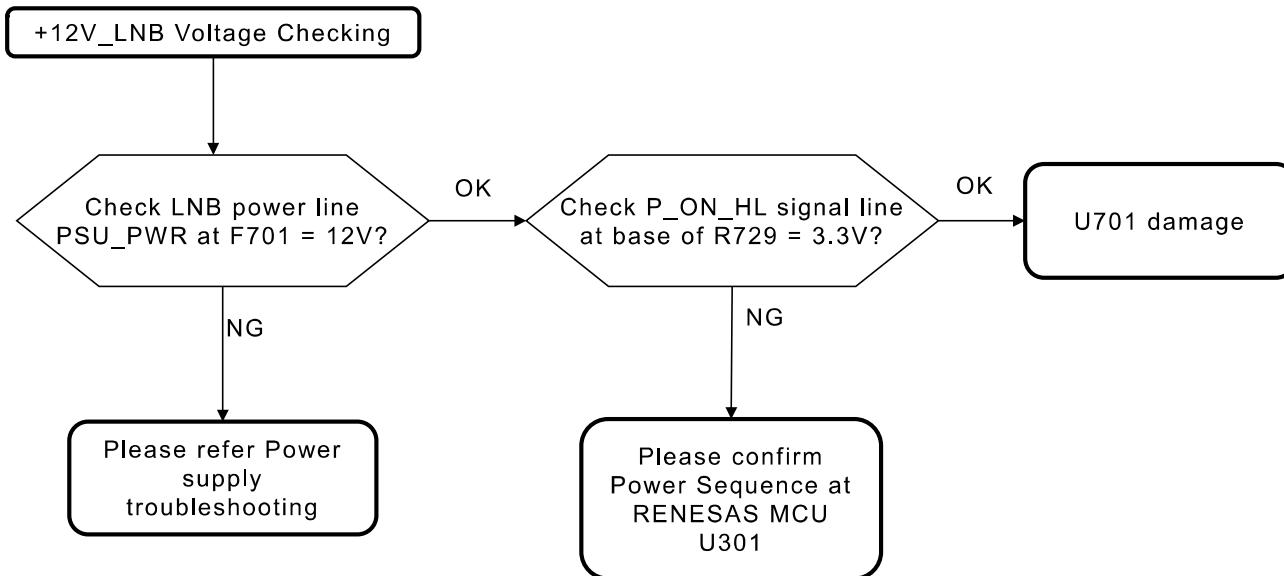
## TROUBLESHOOTING

### 4.4 No Picture : @ Tuner



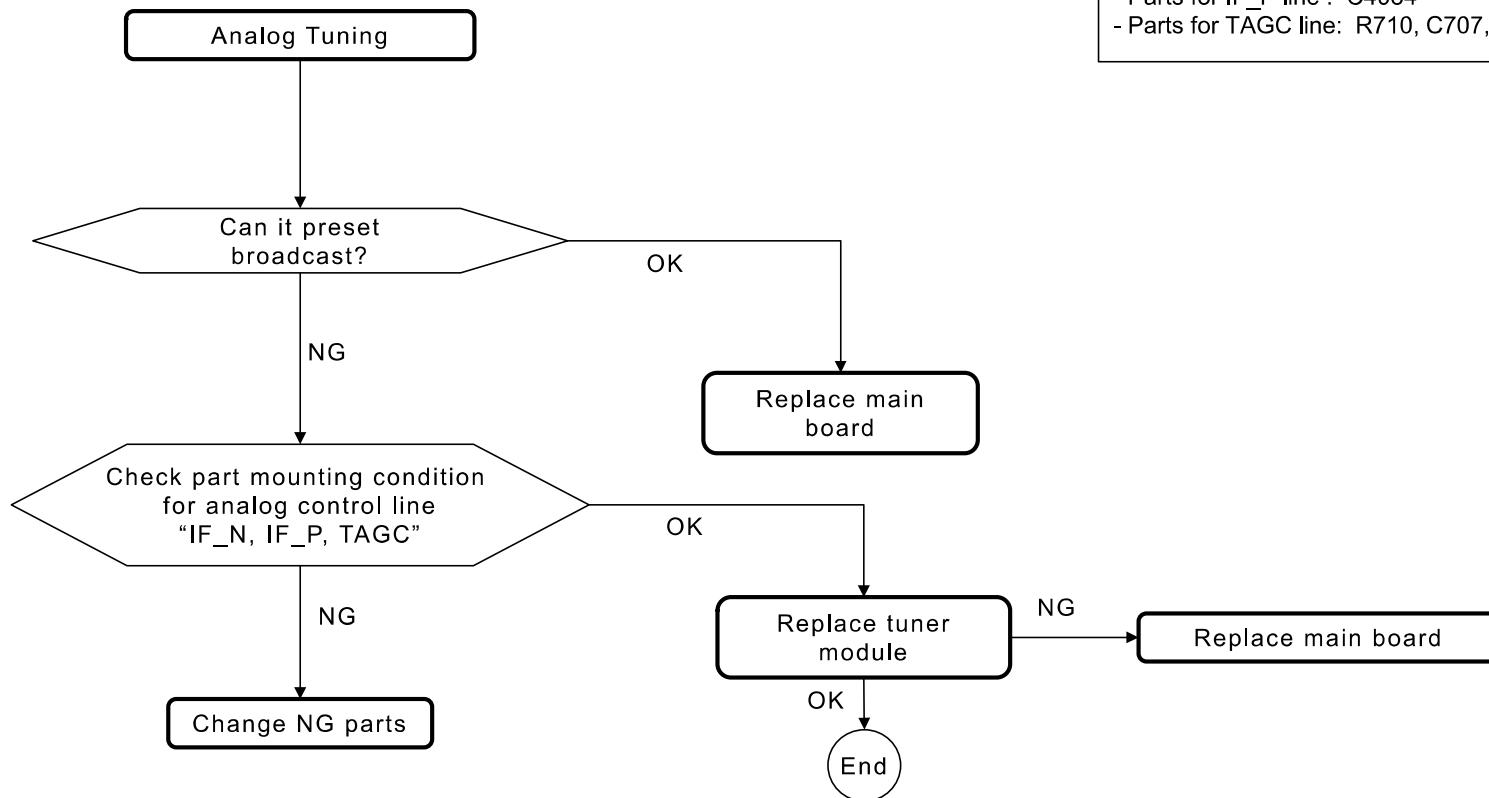
## TROUBLESHOOTING

### 4.4 No Picture : @ Tuner FOR 12V LNB Voltage Checking: @ IN



## TROUBLESHOOTING

### 4.4 No Picture : @ Tuner FOR ANALOG TUNING : All destinations

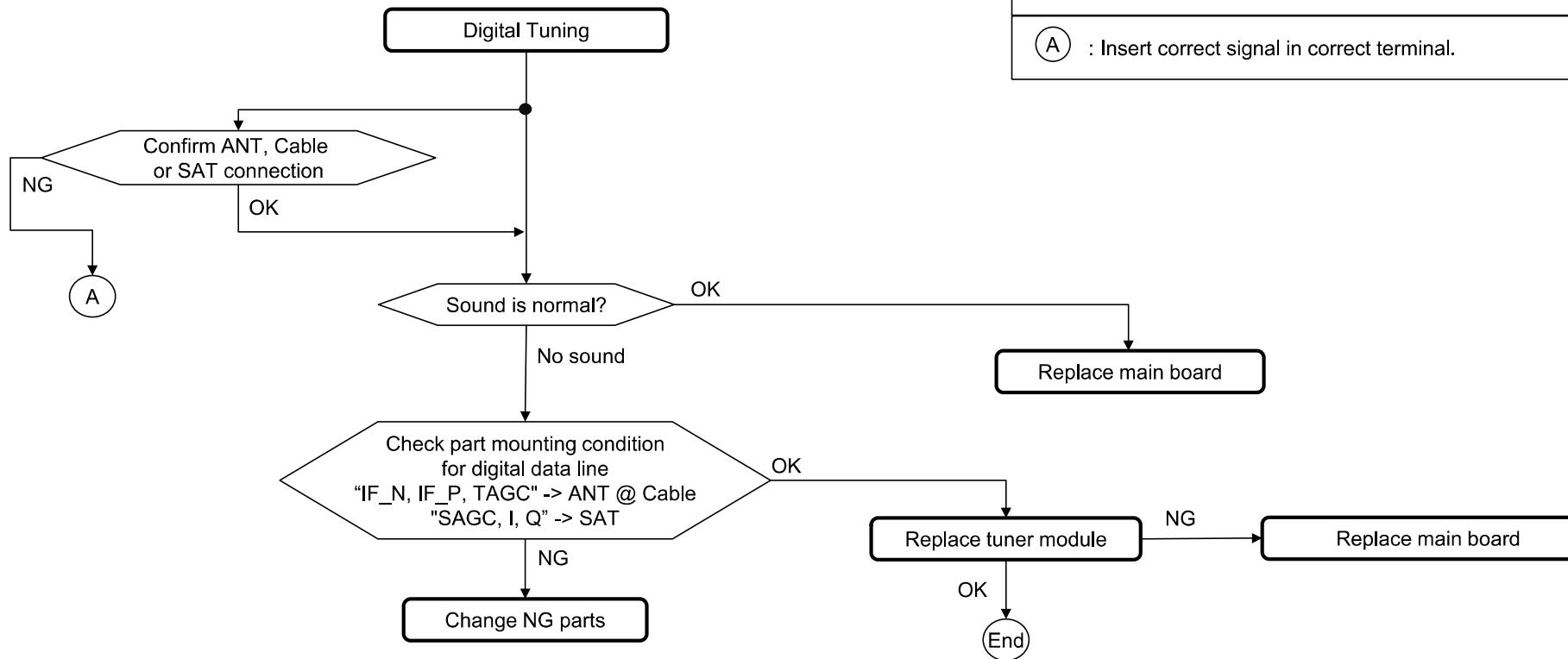


Notes:

- Parts for IF\_N line : C4088
- Parts for IF\_P line : C4084
- Parts for TAGC line: R710, C707, C4089, R4063, R4065, C4091

## TROUBLESHOOTING

### 4.4 No Picture : @ Tuner FOR DIGITAL TUNING : All destinations



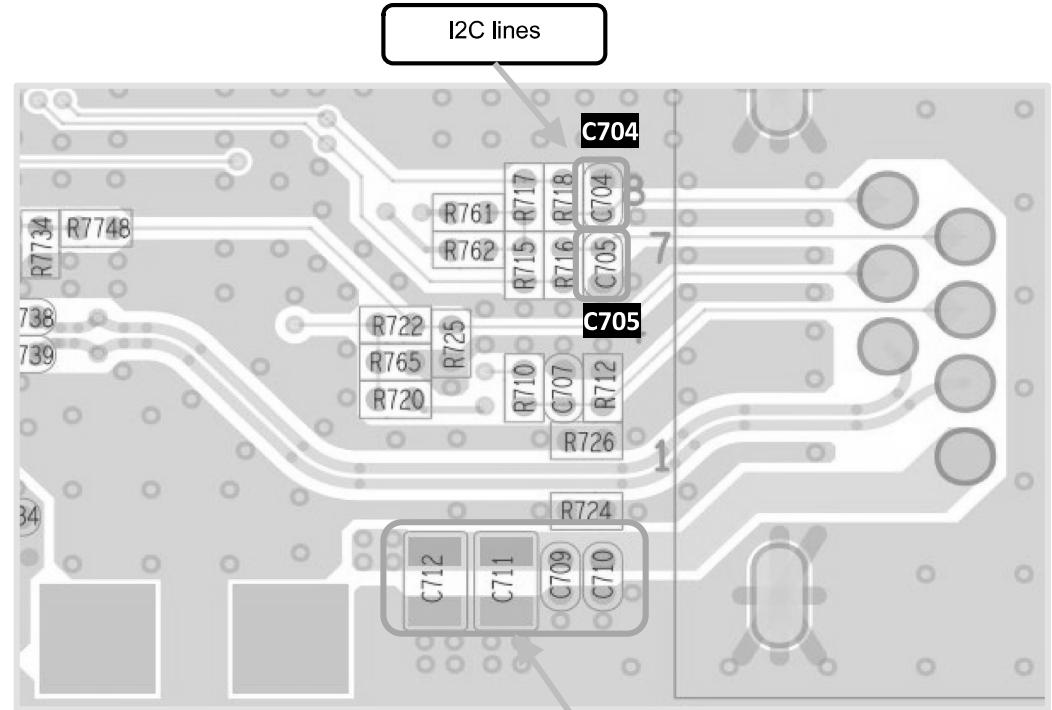
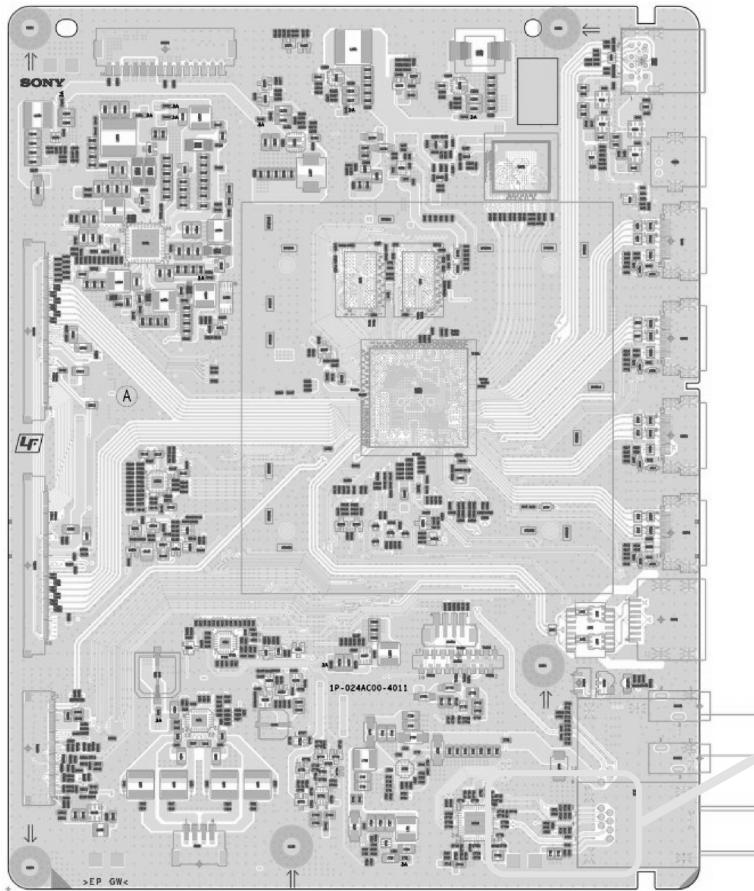
## TROUBLESHOOTING

### 4.4 No Picture : @ Tuner

Tuner Power Lines and Tuner I2C: 3.3V

Note: Please refer to next slide for Ref.No and part location

MB(Top View)



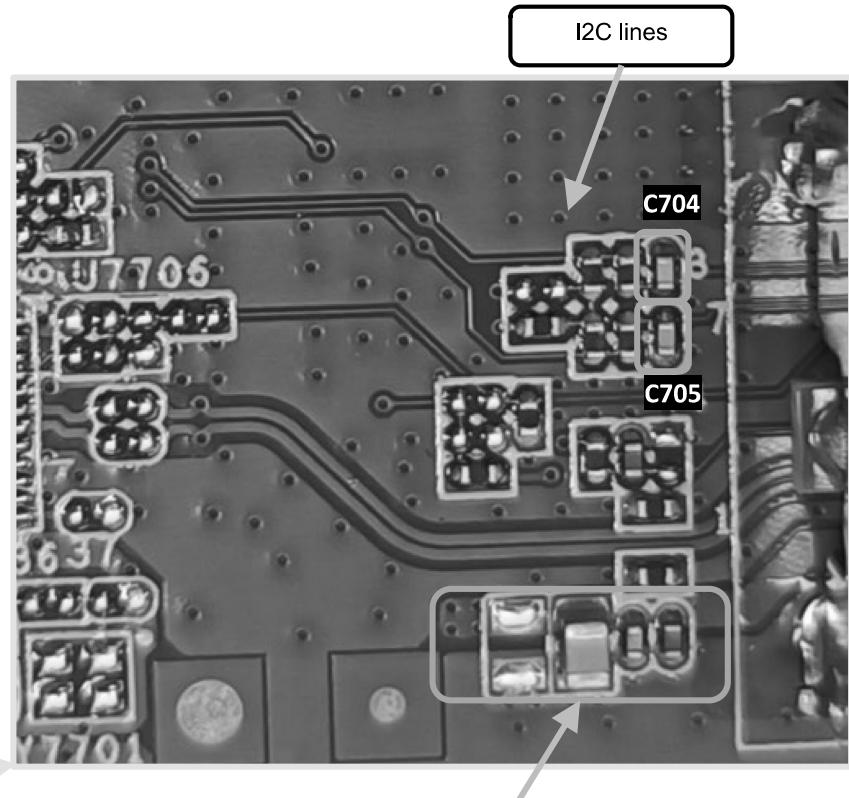
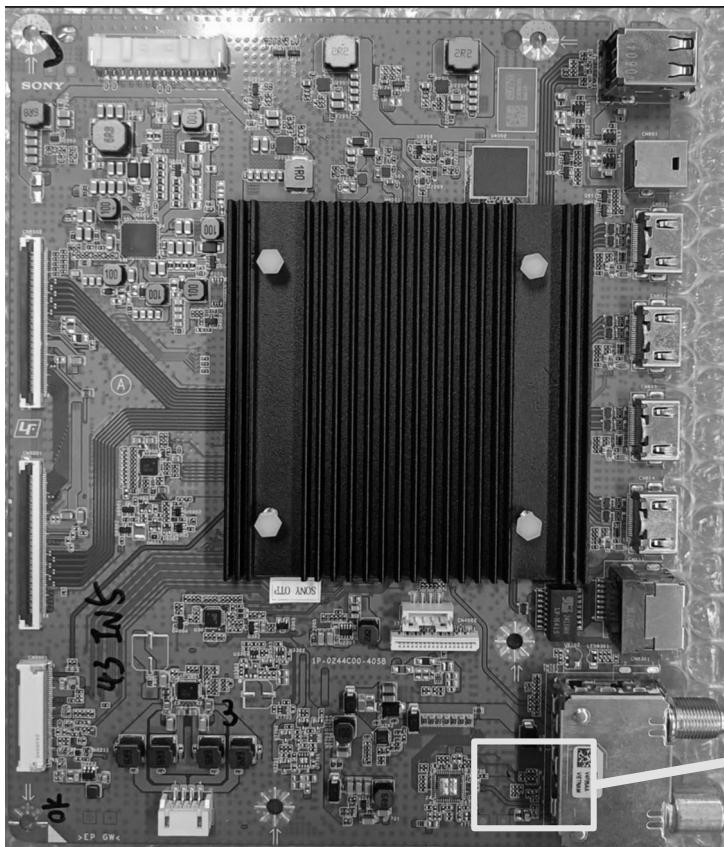
3.3V Voltage Checking

## TROUBLESHOOTING

### 4.4 No Picture : @ Tuner

Tuner Power Lines and Tuner I2C: 3.3V

MB(Top View)

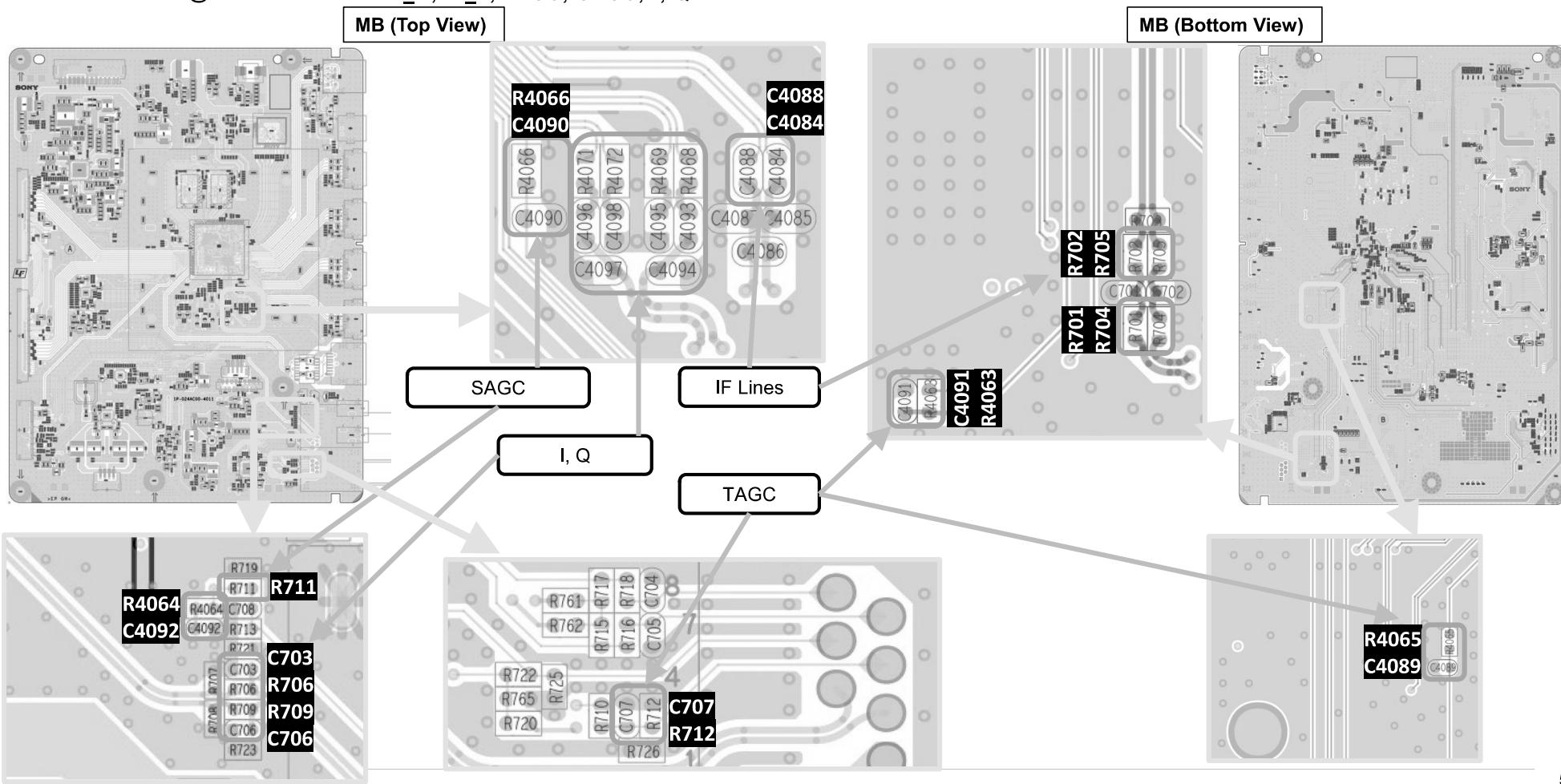


## TROUBLESHOOTING

### 4.4 No Picture : @ Tuner

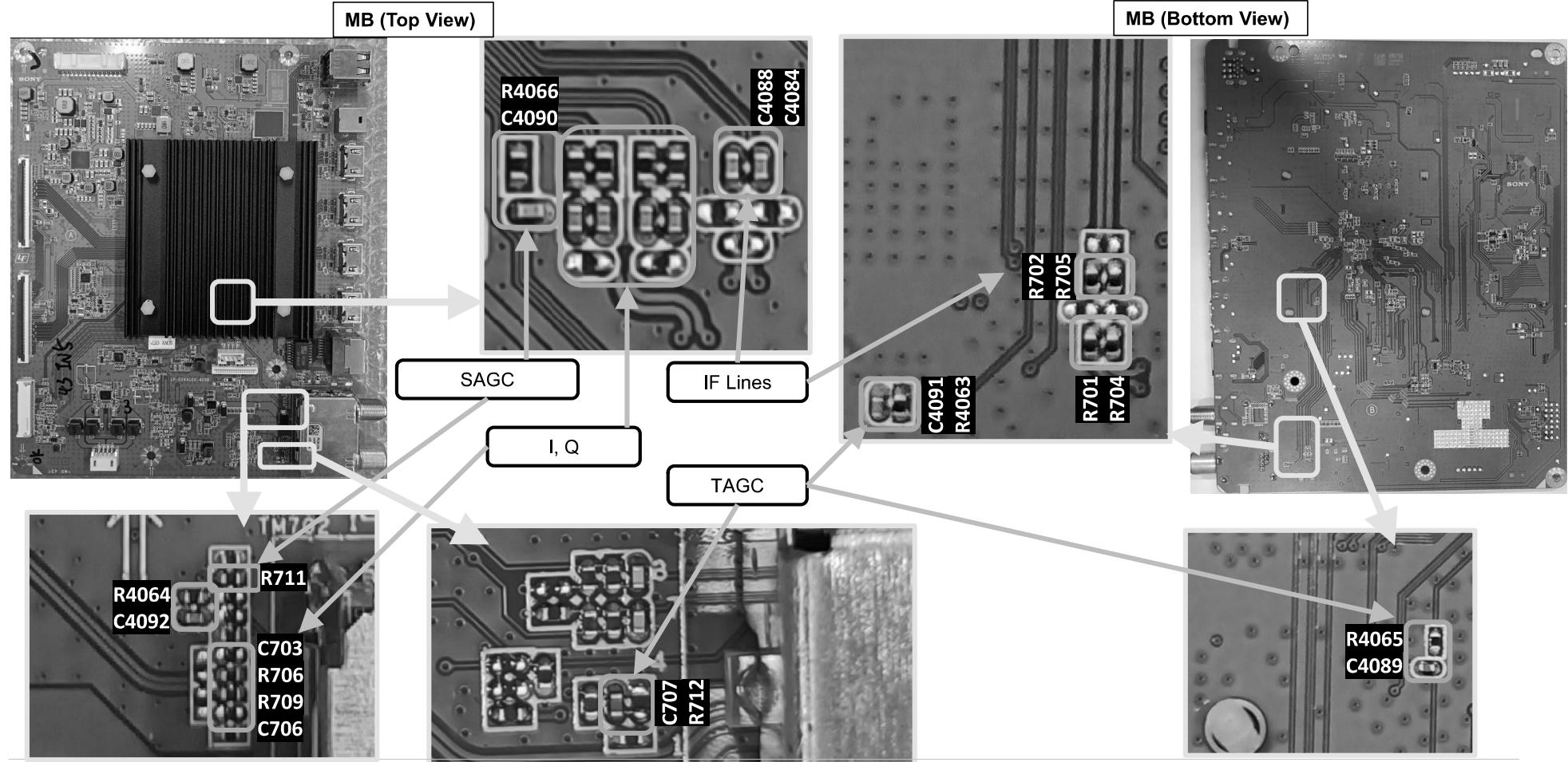
IF\_N, IF\_P, TAGC, SAGC, I, Q

Note: Please refer to next slide for Ref.No and part location



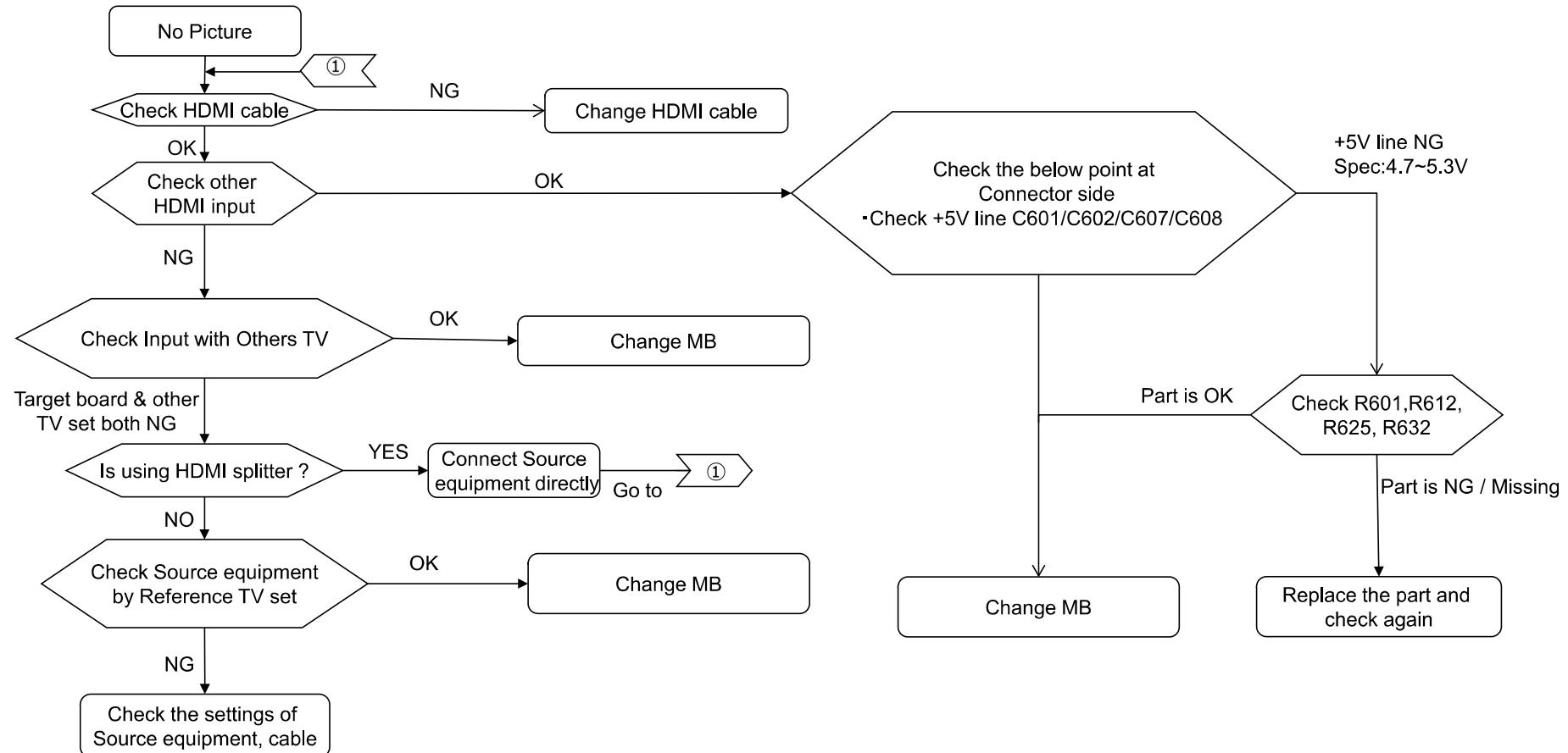
## TROUBLESHOOTING

### 4.4 No Picture : @ Tuner



## TROUBLESHOOTING

### 4.5 No Picture : HDMI 1/2/3/4

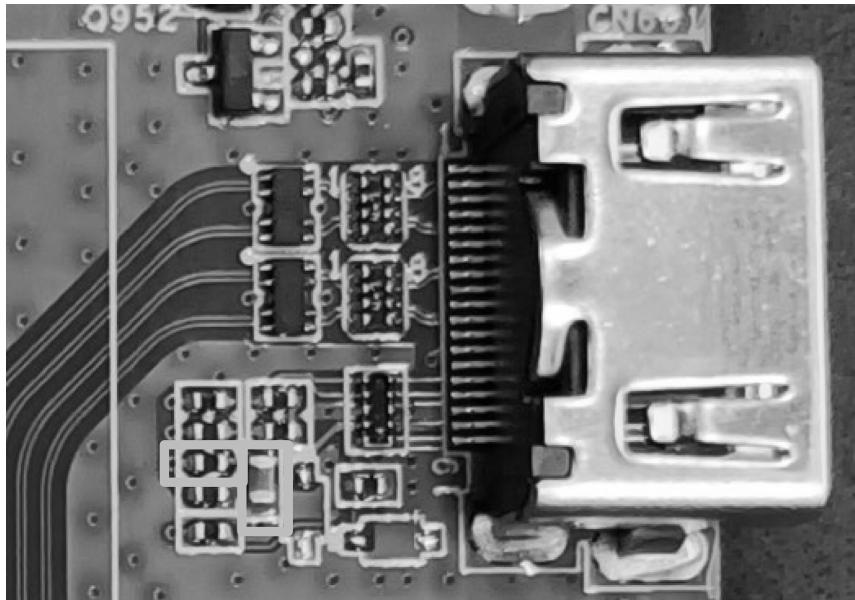


## TROUBLESHOOTING

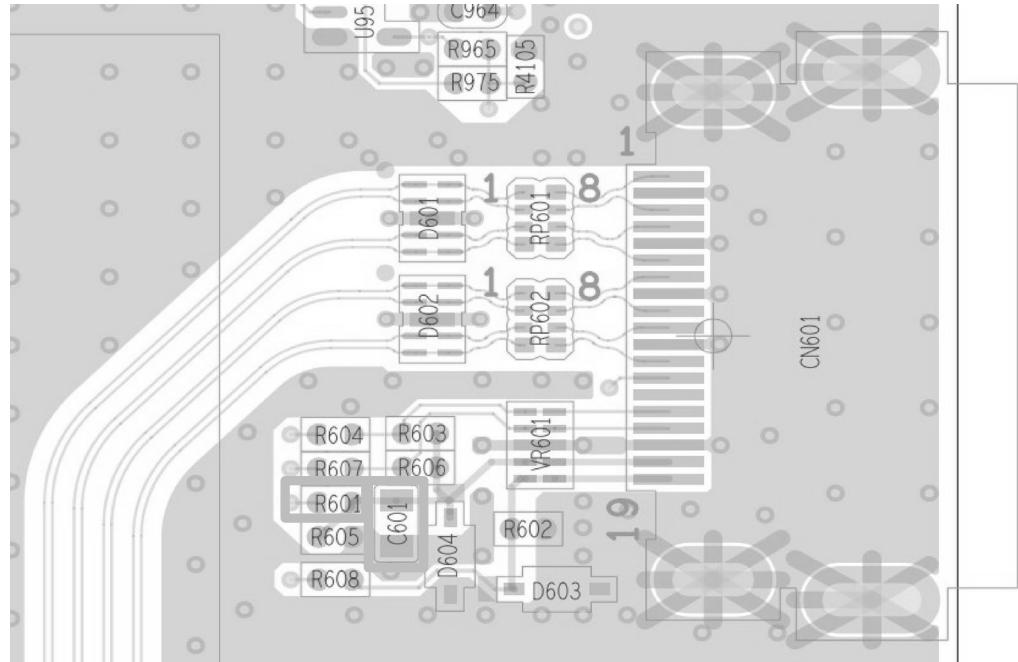
### 4.5 No Picture : HDMI 1/2/3/4

HDMI 1/2/3/4

MB (A side)

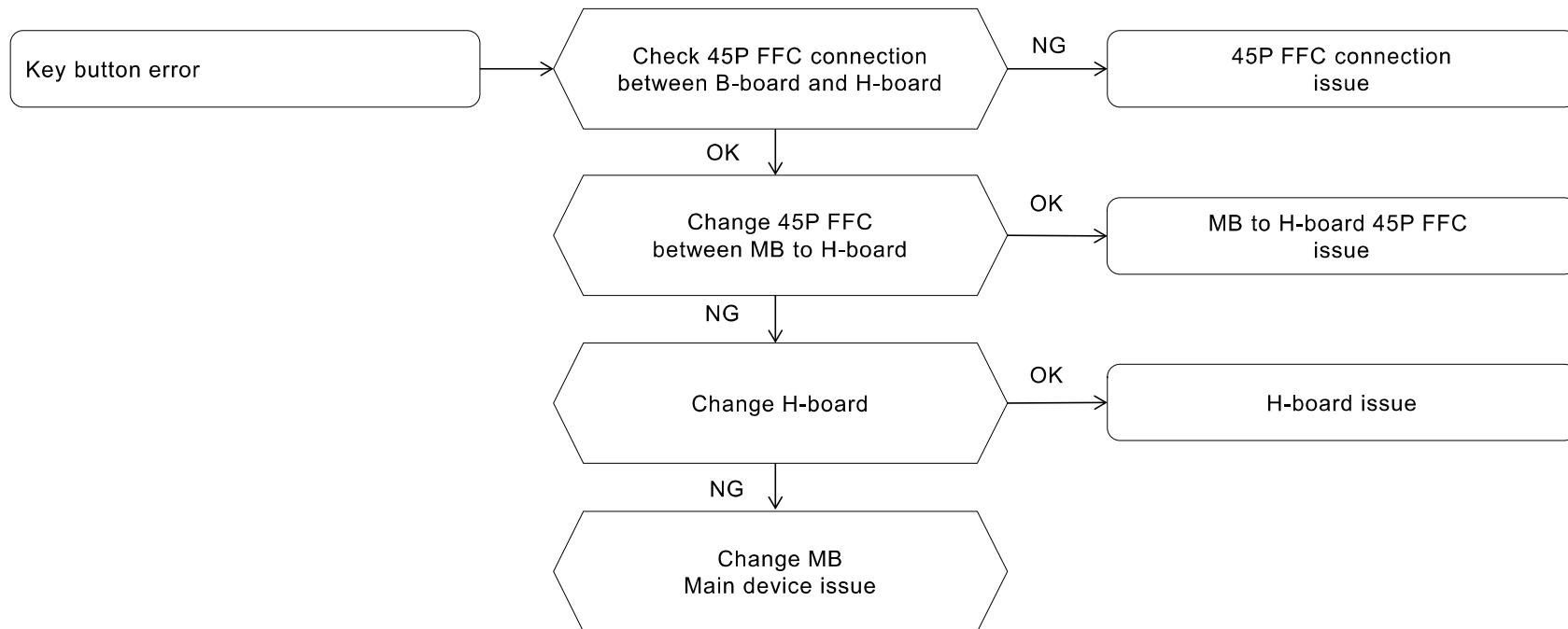


Check point



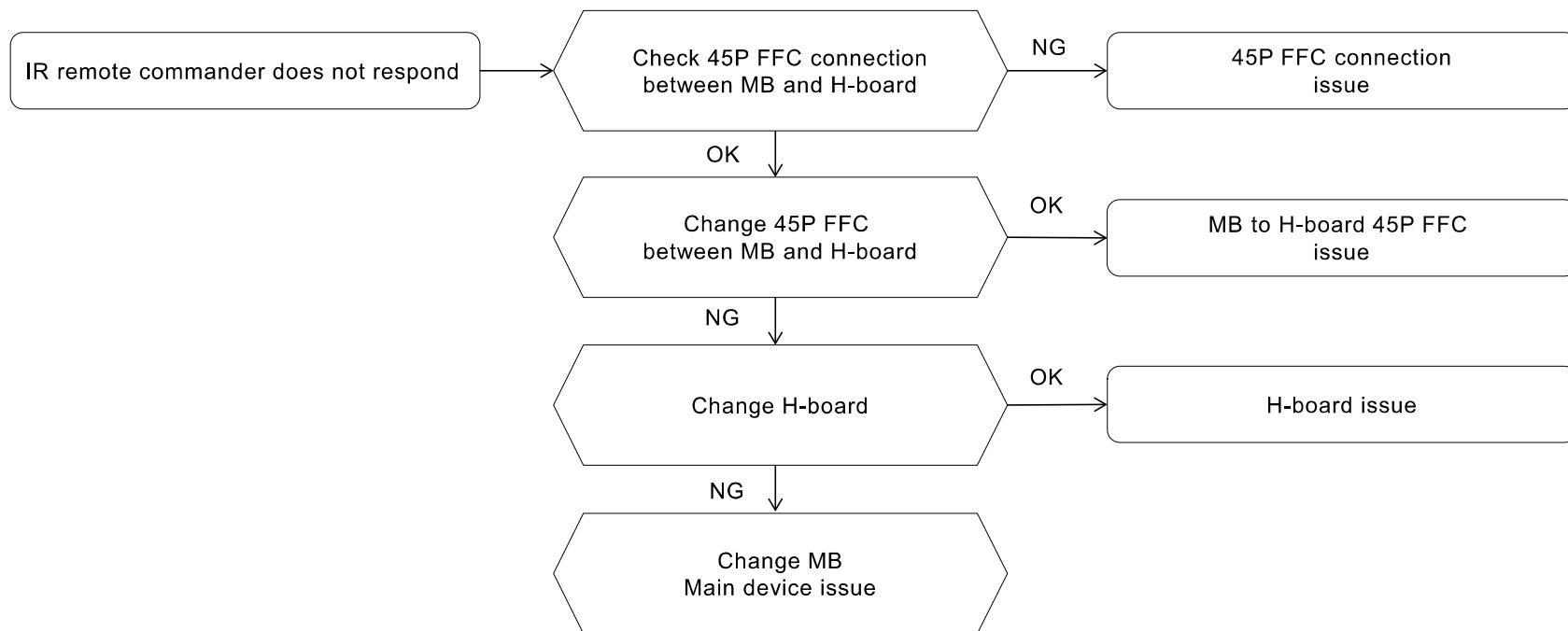
## TROUBLESHOOTING

### 5.0 Key Switch Button Error



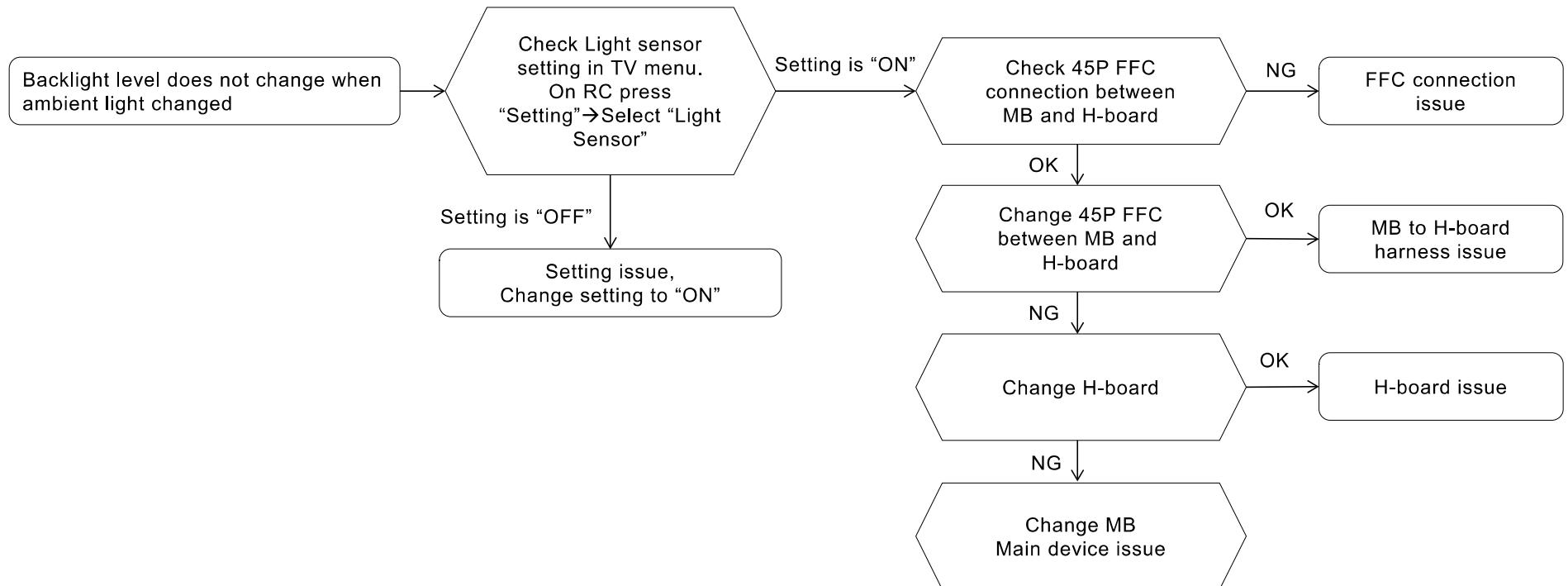
## TROUBLESHOOTING

### 5.1 IR Remote Commander Error



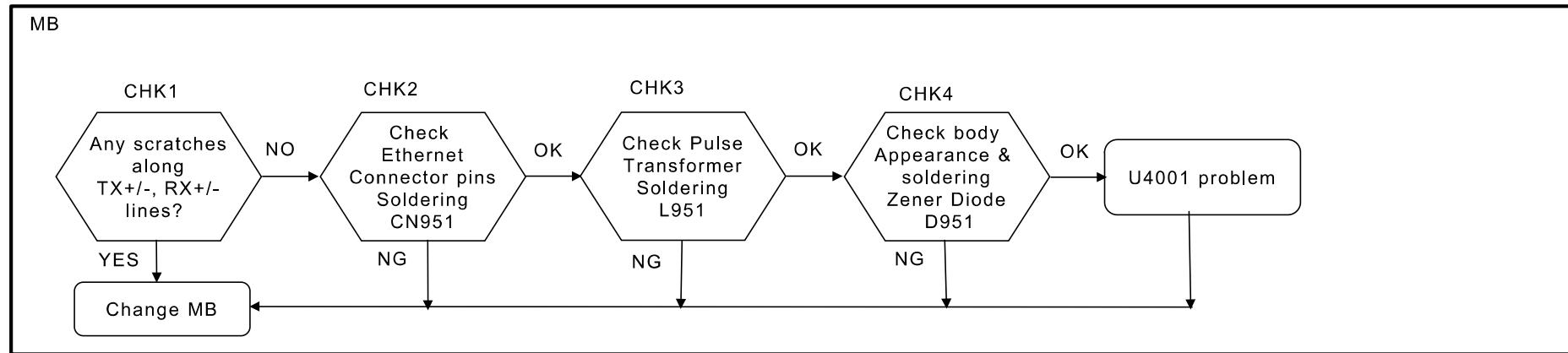
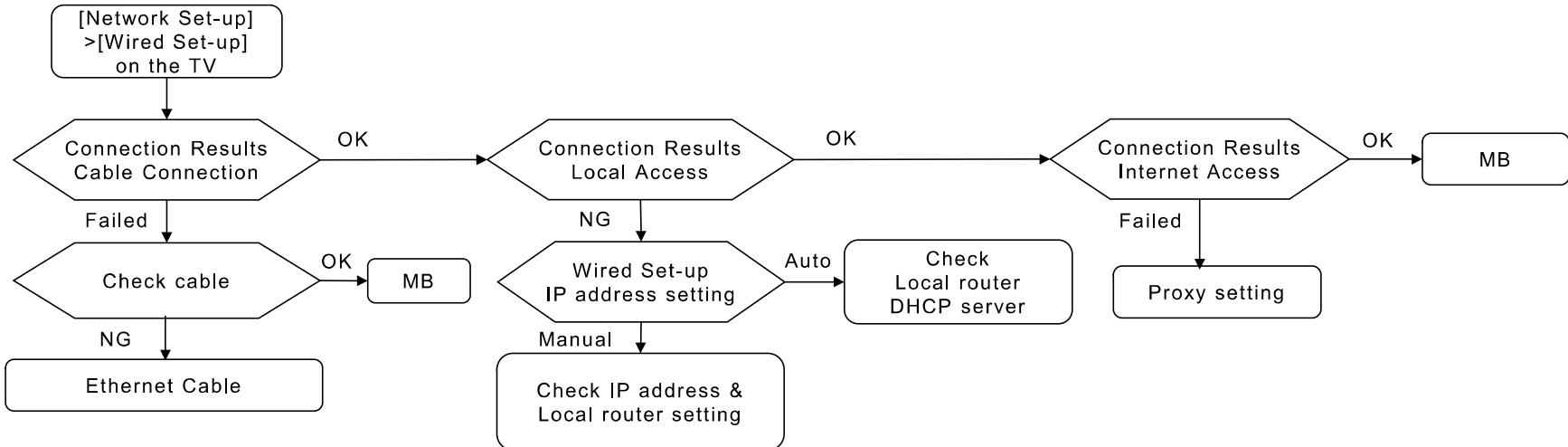
## TROUBLESHOOTING

### 5.2 Light Sensor Error



## TROUBLESHOOTING

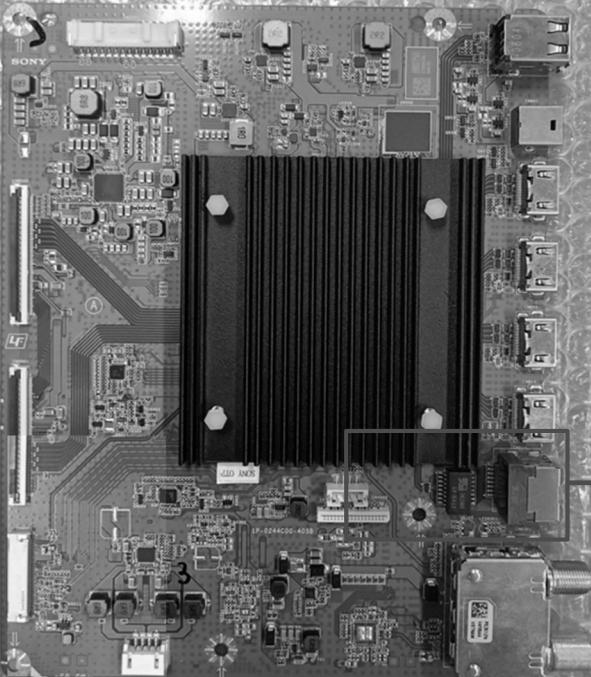
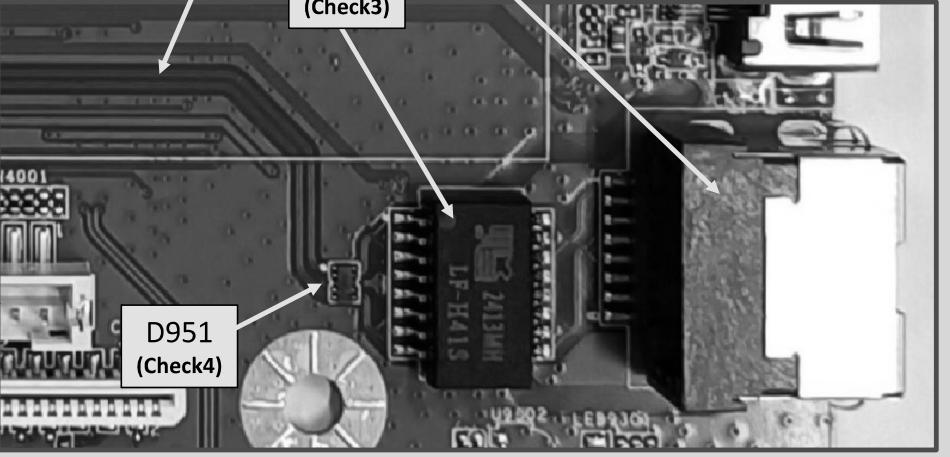
### 6.0 Network Malfunction : Ethernet (Wired)



## TROUBLESHOOTING

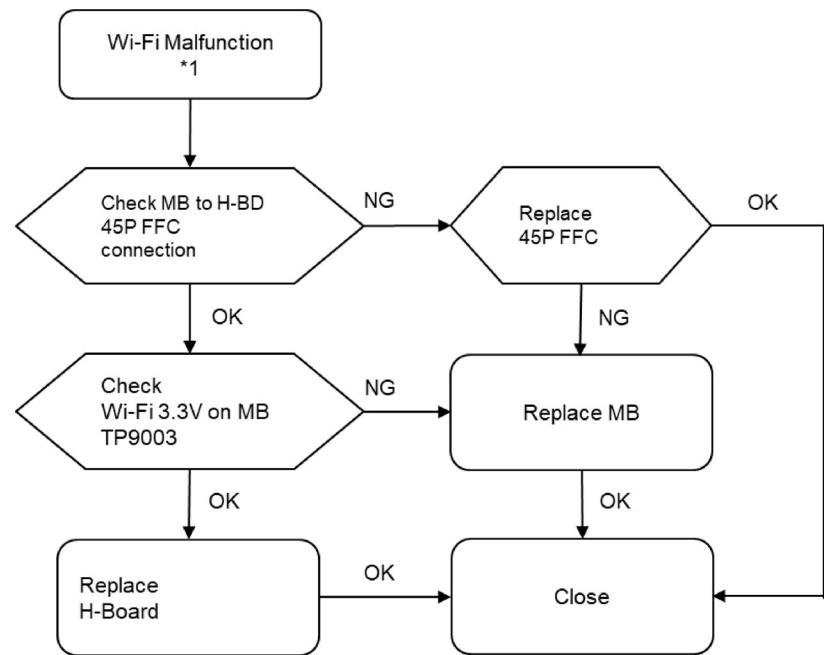
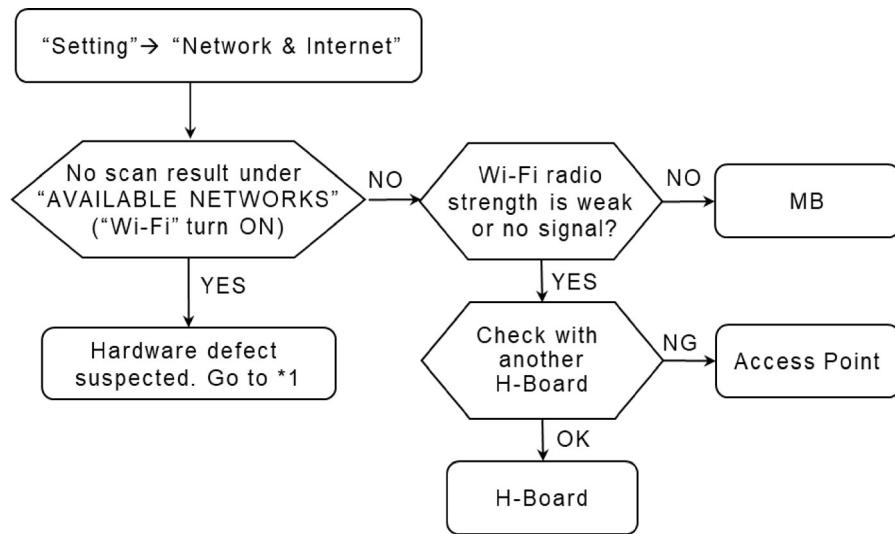
### 6.0 Network Malfunction : Ethernet (Wired)

#### Checking Point

Full Board (A side)	Detail
	 <p>TX, RX line (Check1)</p> <p>CN951 (Check2)</p> <p>L951 (Check3)</p> <p>D951 (Check4)</p>

## TROUBLESHOOTING

### 6.2 Wireless Network Malfunction

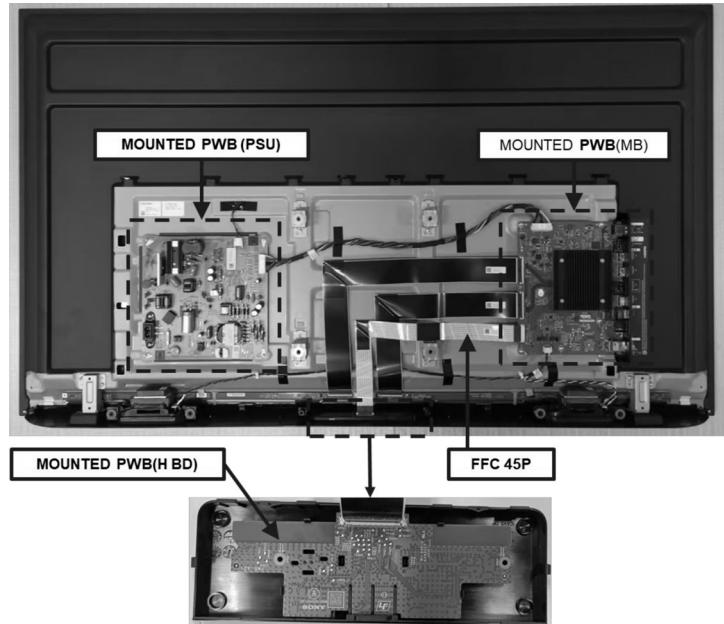
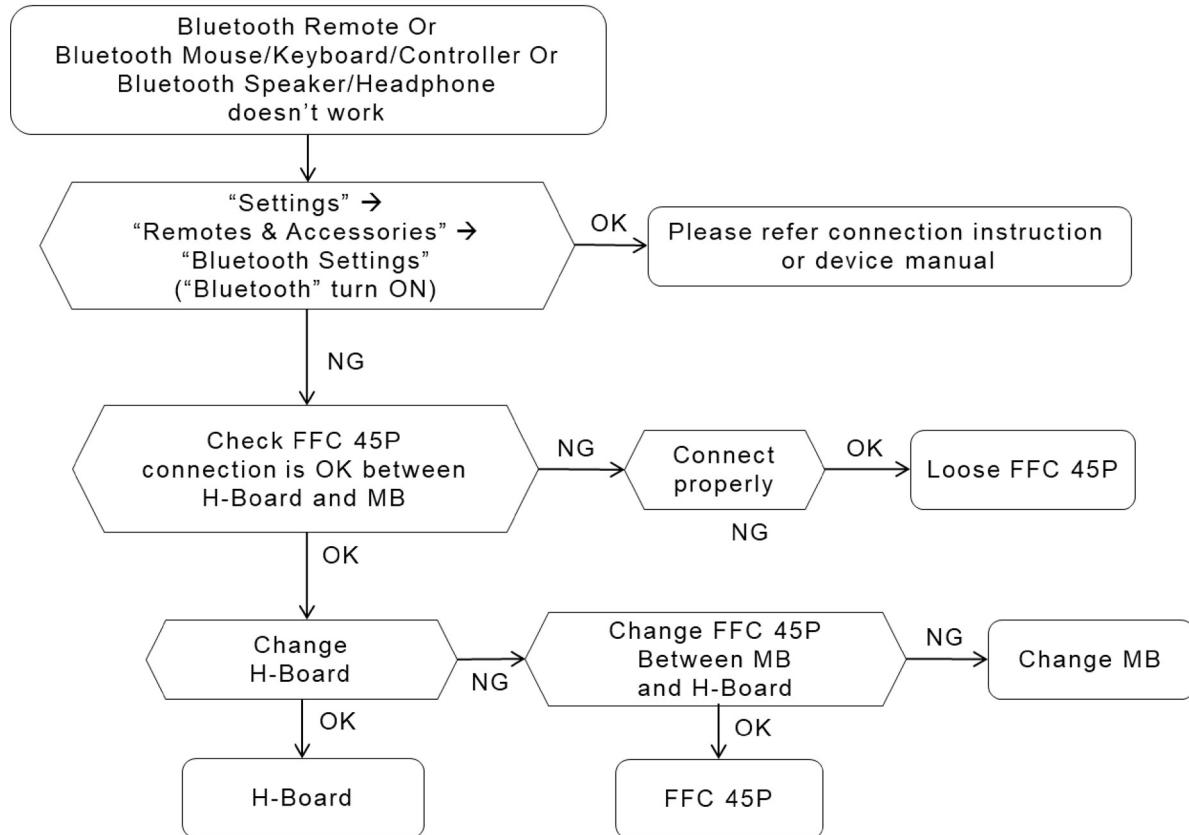


If Wi-Fi malfunction happens, below part is suspected:

- H-board
- FFC between MB and H-board
- MB

## TROUBLESHOOTING

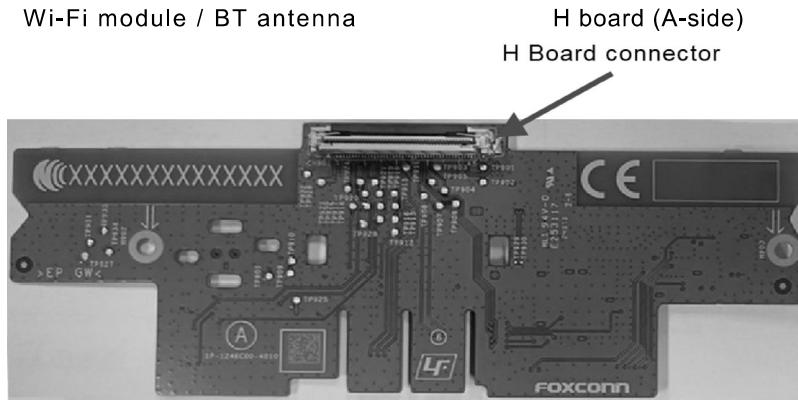
### 6.3 Bluetooth Malfunction



## TROUBLESHOOTING

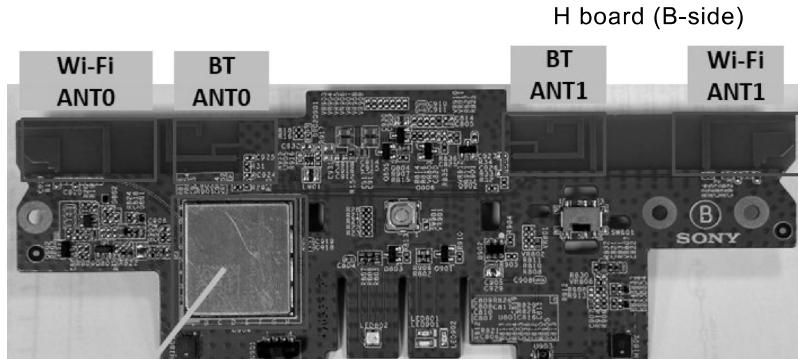
### 6.3 Bluetooth Malfunction

Wi-Fi module / BT antenna



H board (A-side)

H Board connector



H board (B-side)

Wi-Fi  
ANT0

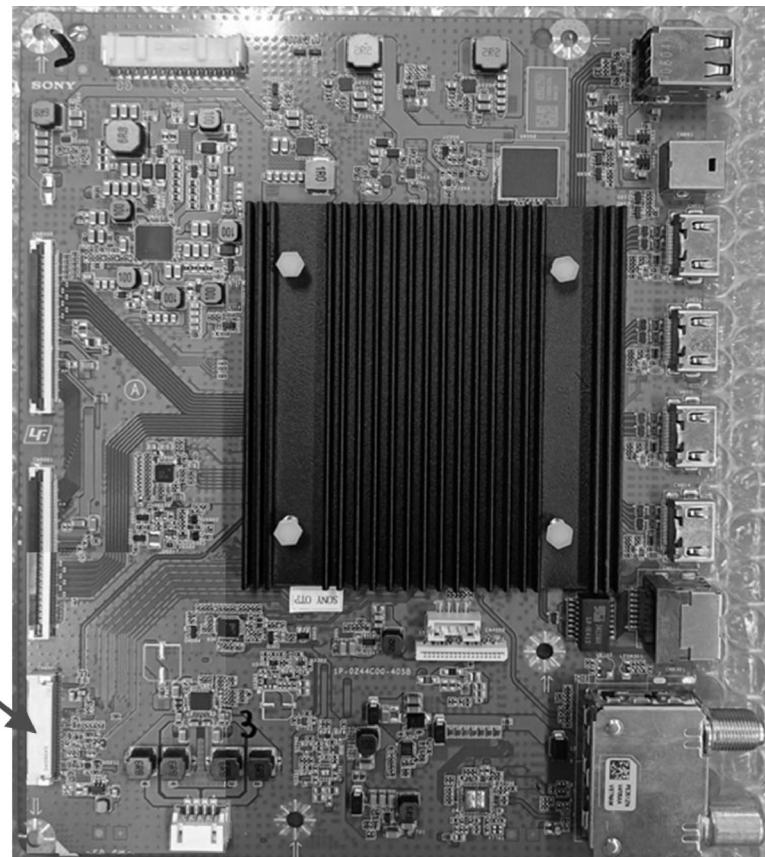
BT  
ANT0

BT  
ANT1

Wi-Fi  
ANT1

Wi-Fi/BT  
MODULE

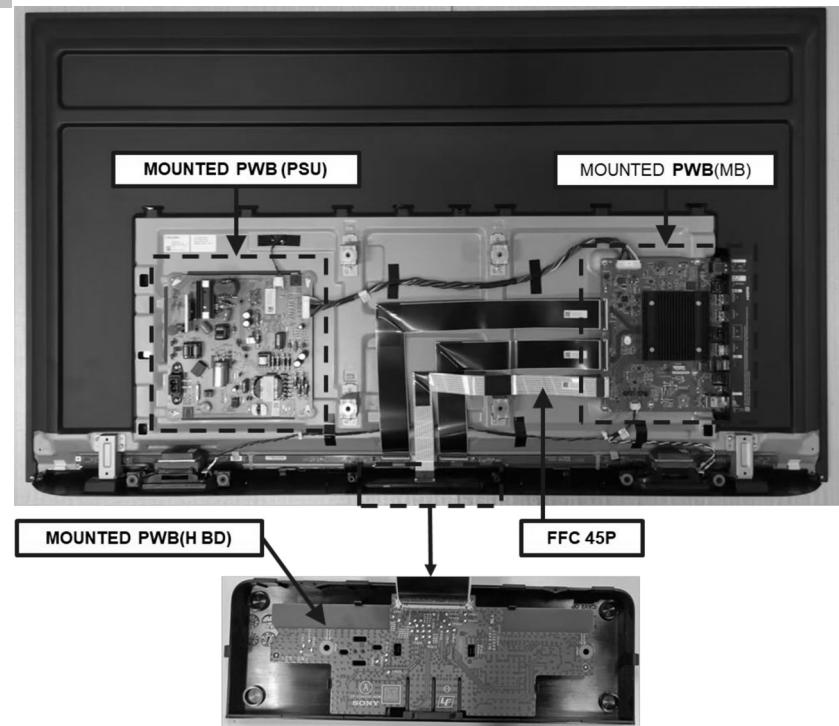
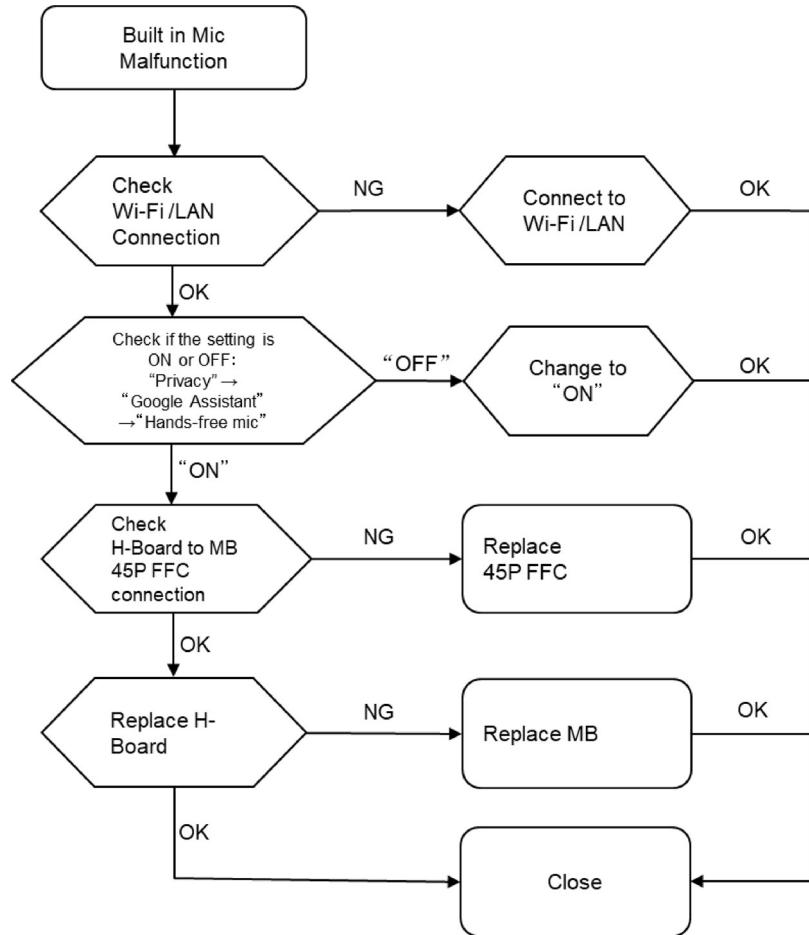
MB (A-side)



H Board  
connector

## TROUBLESHOOTING

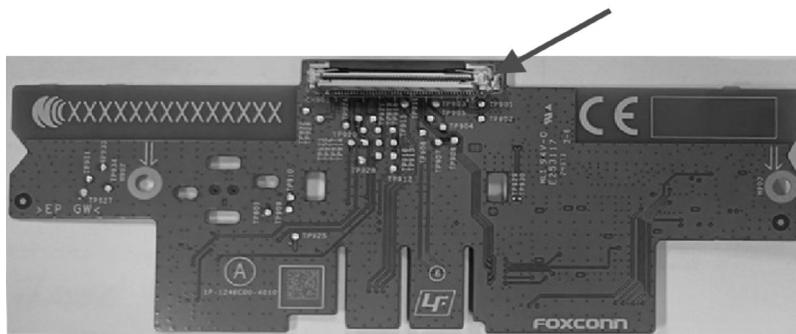
### 6.4 Built in Mic Malfunction



## TROUBLESHOOTING

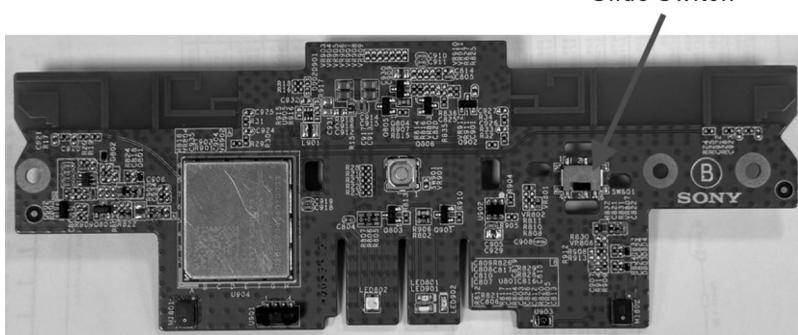
### 6.4 Built in Mic Malfunction

H Board (A side)



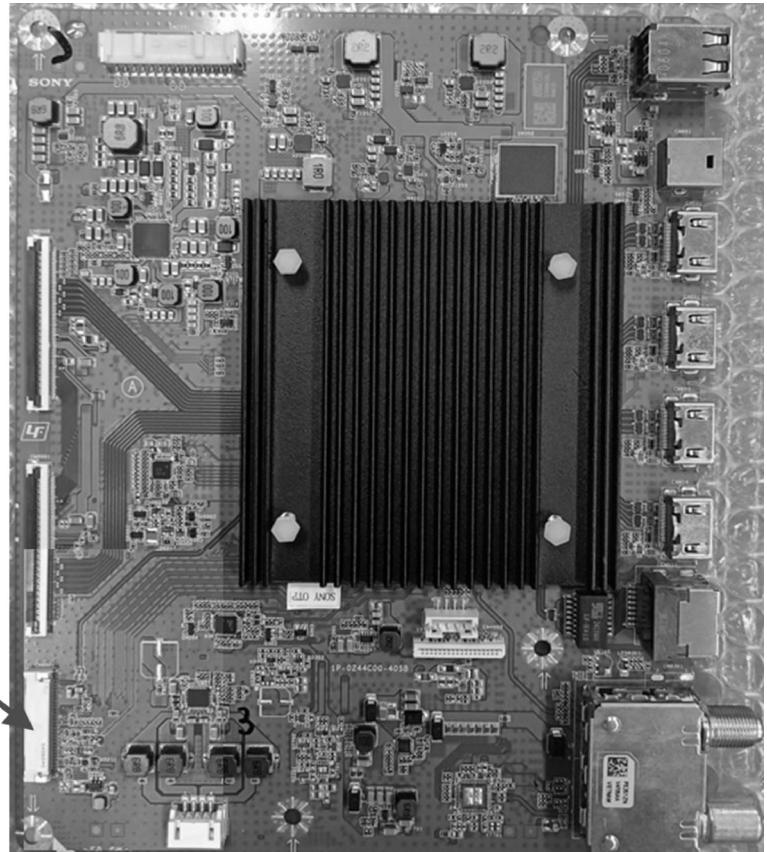
H Board connector

H Board (B side)



Slide Switch

MB (Top view)



H Board connector

## SOFTWARE UPDATE & RESET

### USB Update

1: Download USB image

※Caution :

- 1) DO NOT power off while the update is in progress.
- 2) Display may change depending on the model / SW version

2: Copy zip file to USB memory root folder

3: Insert USB memory to TV  
Software will auto update

4-a: USB image is newer version

4-b: USB image is not newer version

Updating your TV software...

During the software update, you can't use this TV. When the software update completes, the illumination LED stops blinking and your TV restarts automatically. Please do not remove the USB flash drive until this blinking stops. The update takes about 25 minutes to complete.

51%

4-a-i: System software update 100%

System software update

OK

Your software is up to date.  
Please remove the USB device and select [OK] to exit.

System reboot will happen once or twice

5: Finished

System software update

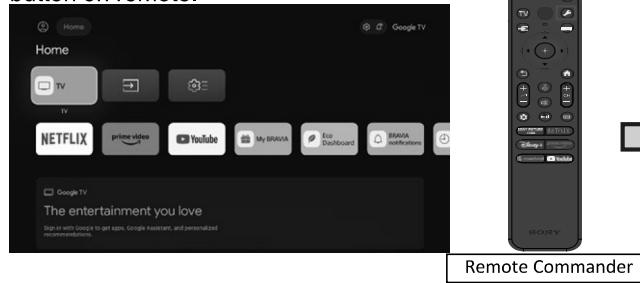
OK

The system software update is complete.  
Some user settings may have changed during the update.  
Please remove the USB device and select [OK] to exit.

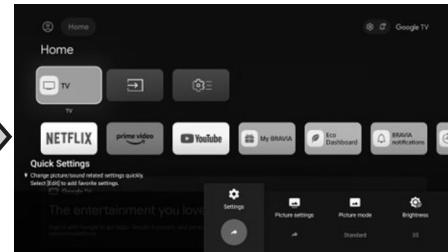
## SOFTWARE UPDATE & RESET

### Factory Data Reset – with UI method

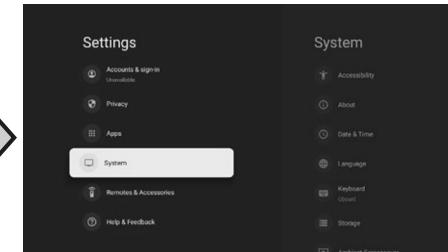
- 1) At Home Menu, press "Settings" button on remote.



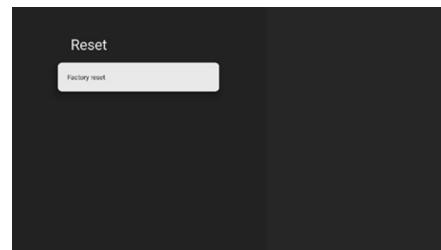
- 2) Select "Settings"



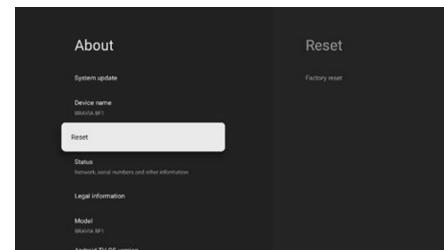
- 3) Select "System"



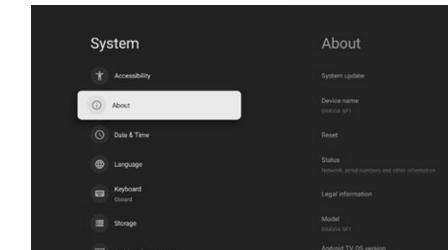
- 6) Select "Factory reset"



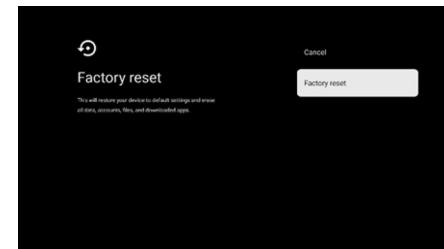
- 5) Select "Reset"



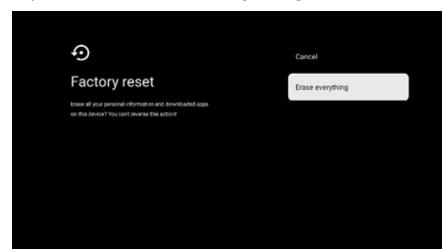
- 4) Select "About"



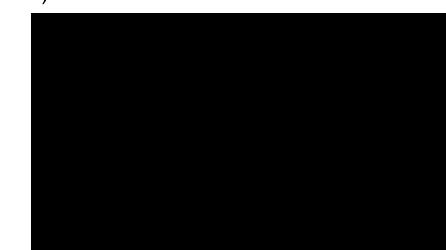
- 7) Select "Factory reset"



- 8) Select "Erase everything"



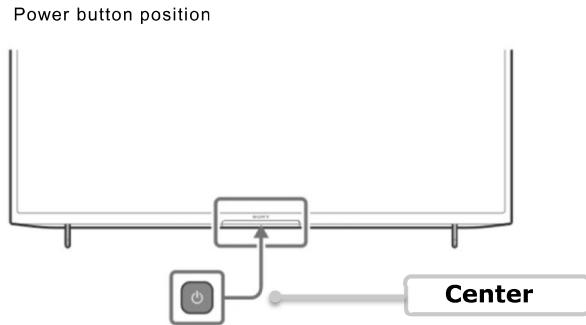
- 9) TV will reboot



## SOFTWARE UPDATE & RESET

### Factory Data Reset – force method (without UI)

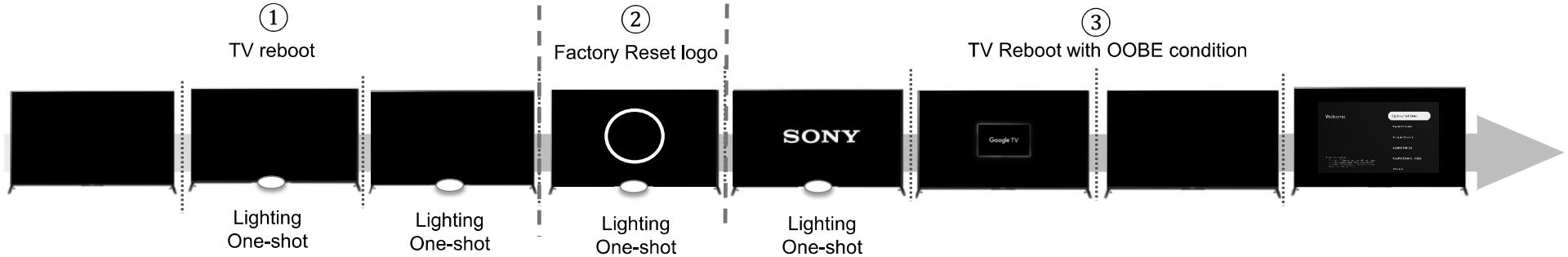
1. Press “Center” key.



2. AC ON (while holding “Center” key until Factory Reset logo appears).

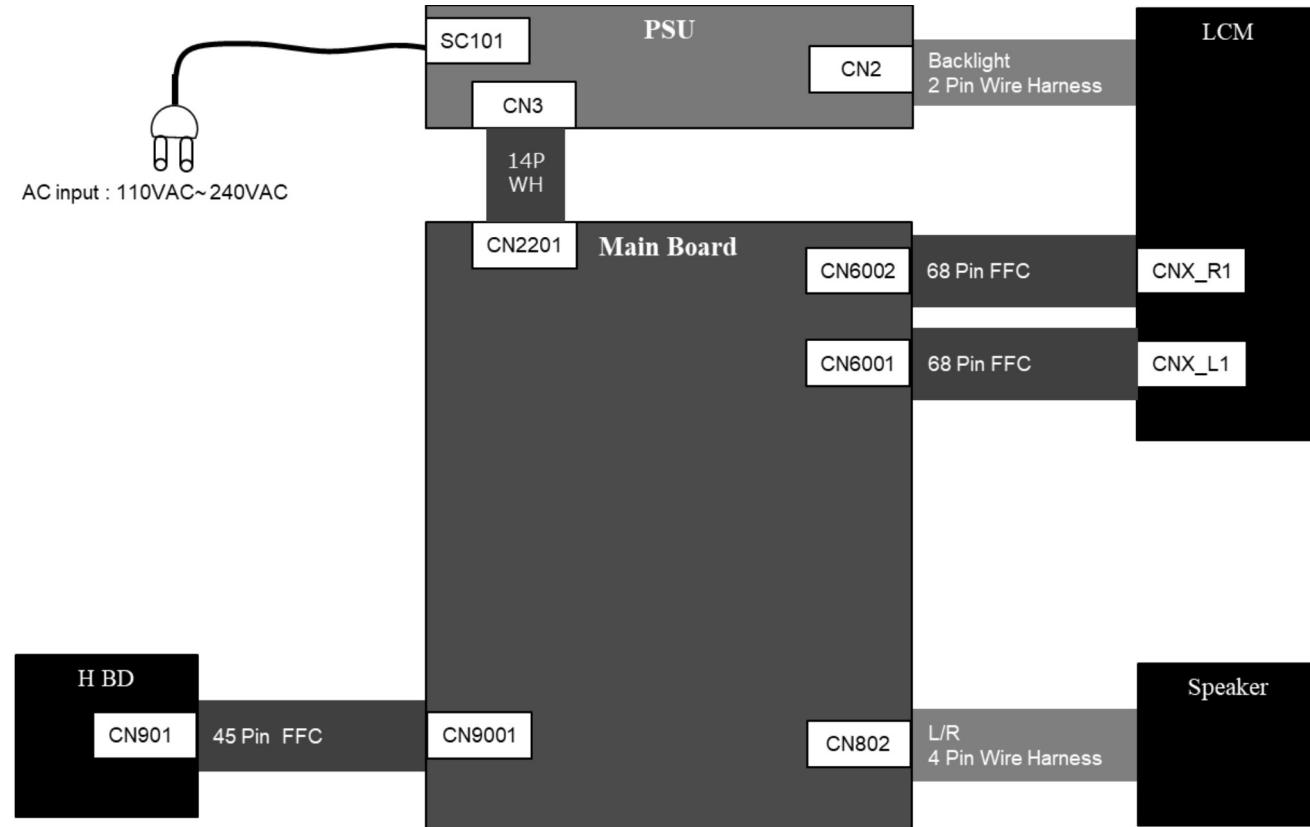
## SOFTWARE UPDATE & RESET

### TV behavior during Factory Data Reset operation



## DIAGRAM

### Connecting Diagram: 43"/50"/55"/65"/75"

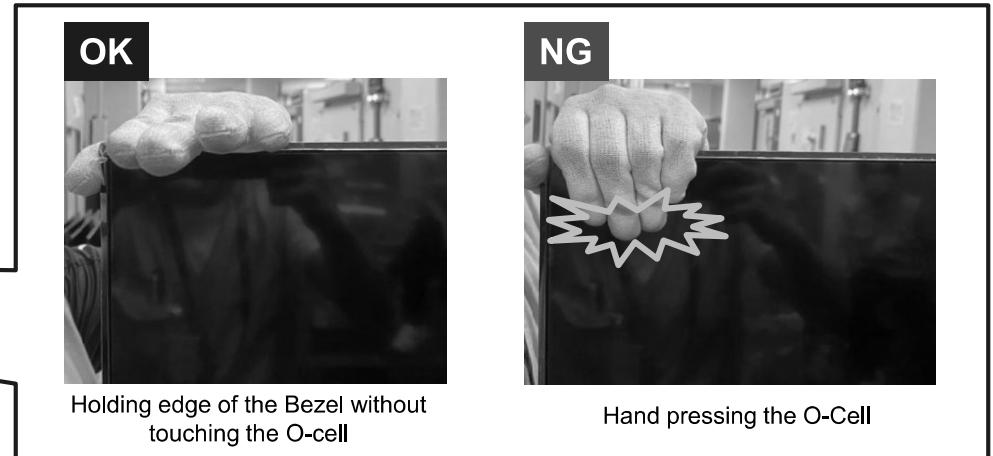


## HANDLING GUIDE

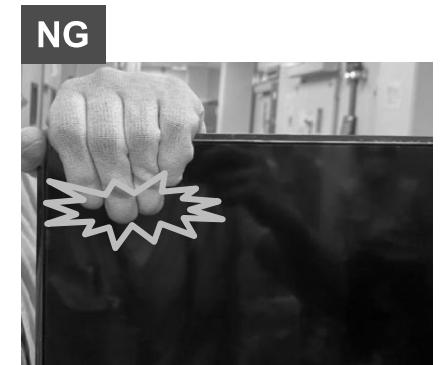
### 1. Holding Position



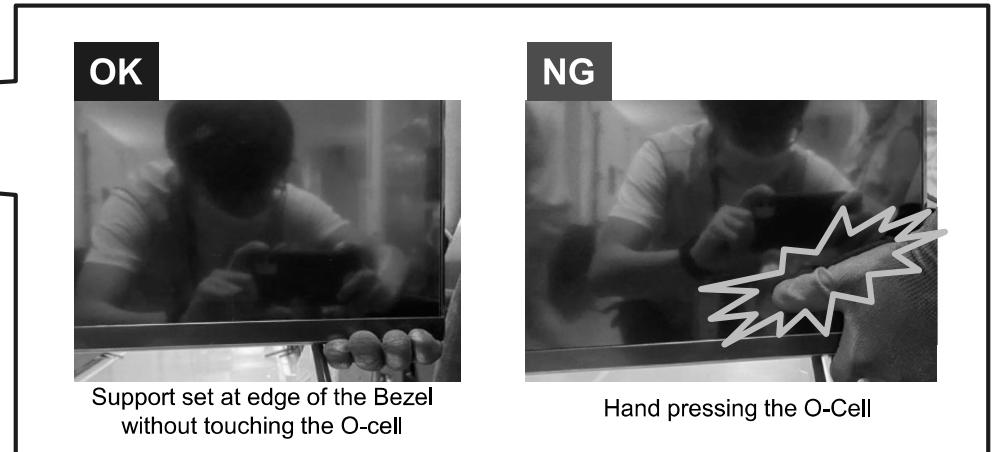
Be sure to wear gloves and work with two people



Holding edge of the Bezel without touching the O-cell



Hand pressing the O-Cell



Support set at edge of the Bezel without touching the O-cell

Hand pressing the O-Cell

## HANDLING GUIDE

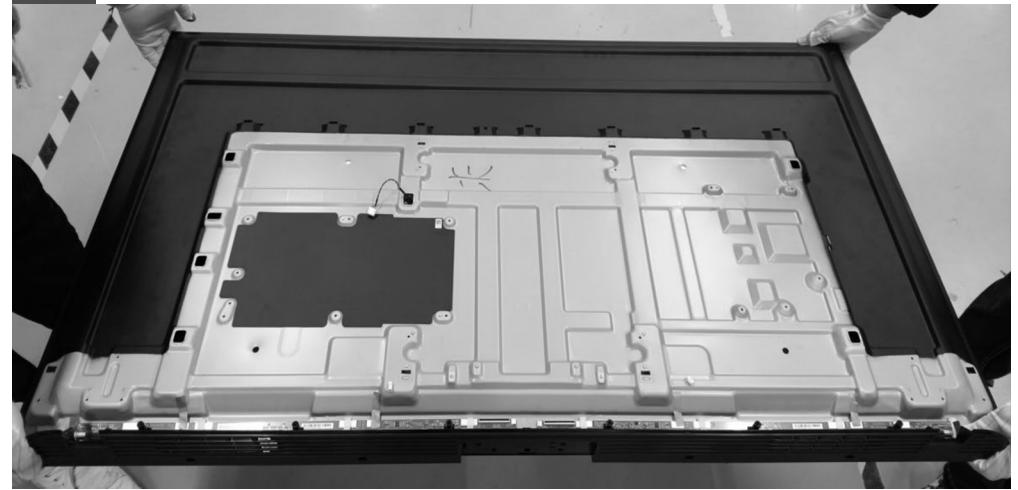
### 2. Carry Position

OK



The panel should be carried in vertical.

NG



DO NOT carry the panel horizontally

## HANDLING GUIDE

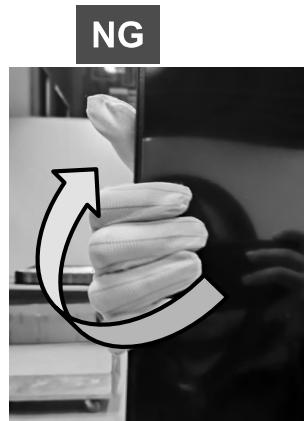
### 3. Carry Condition



The panel should be carried by two people.



**DO NOT** carry the panel alone



Since the O-cell may pop out, **DO NOT** apply force to the Back Chassis or rotate the Bezel

## HANDLING GUIDE

### 4. Carry Condition

OK



The panel should be carried by the corners.

NG



**DO NOT** carry the panel at the center area

## HANDLING GUIDE

### 5. Resting Condition

OK



2 persons put the panel on the table

NG



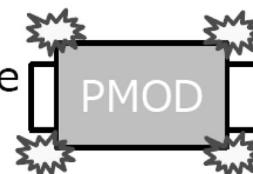
DO NOT put the panel on the table by yourself

Table



Panel can be fully supported by table surface

Table



Panel is not fully supported by table surface (Corner / edge is hanging)

## HANDLING GUIDE

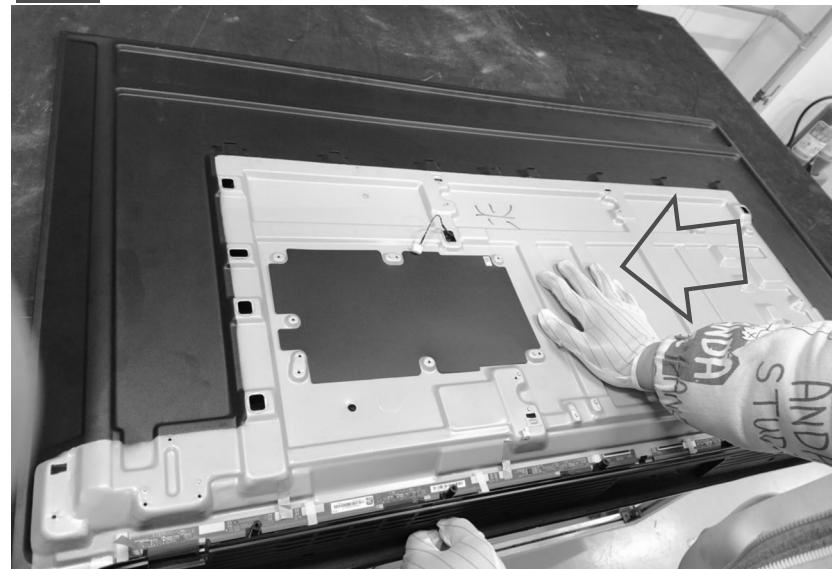
### 6. Prohibit Method

NG



Handle the panel without gloves

NG



Press on the panel during Assy & Disassy

## TOOLS & EQUIPMENTS

### 1 LIST OF ITEMS TO PREPARE

- i. Screwdriver (e.g., #1,#2 Phillips Screwdriver).
- ii. Multimeter.
- iii. ESD Wrist Straps.
- iv. Service Manual - to remove & replace details.



### 2 OPTIONAL EQUIPMENTS

- i. Screwdriver (e.g., #0 Phillips Screwdriver).
- ii. Parts Tray for loose screws and small items.
- iii. Flashlight.
- iv. Service Manual

### 3 PREPARATION BEFORE REPAIRS

Before you begin, unplug the TV from the wall outlet and stand it up on a level work surface to begin removing the Rear Cover. If you are working on a TV that was wall-mounted, and does not have a stand, simply place the TV faced-down on top of a thick blanket, on a large/flat surface, or you may be able to lean it up against a wall near a wall outlet.

## FFC PRECAUTIONS

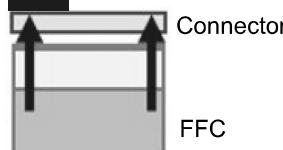
### FFC INSERTION METHOD

※Caution: DO NOT hold / touch copper side during FFC handling.

#### ESSENTIAL CAUTION INFO THAT MUST BE FOLLOWED BY PRODUCTION FOR ANY FFC INSERTION METHOD

##### STRAIGHT INSERT

OK



INSERT FFC IN STRAIGHT CONDITION

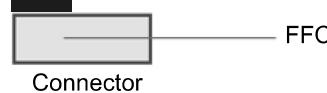
NG



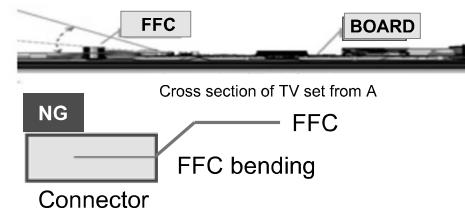
DO NOT INSERT FFC IN SLANTING CONDITION

##### INSERT ANGLE

OK



< 20°

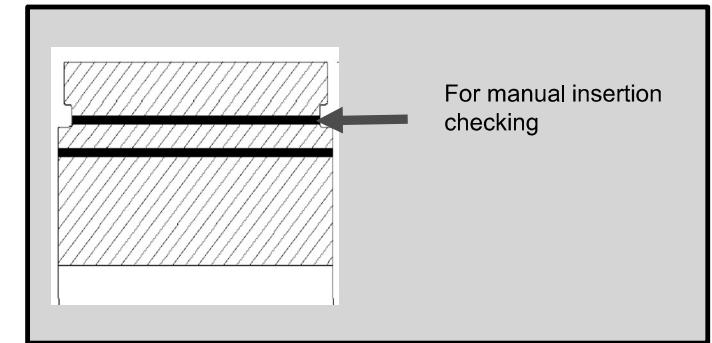


DO NOT APPLY EXCESSIVE FORCE DURING INSERTION

#### RECOMMENDED FFC HOLDING METHOD MATRIX

		A Sandwich	B Both ends	C Plate
1	One-hand			
2	Both hands			

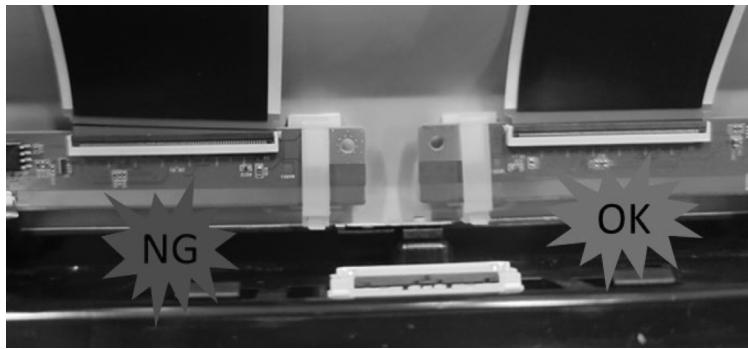
#### INDICATION FOR FFC FULL INSERTION



## FFC PRECAUTIONS

### CAUTION FOR FFC WITH HOUSING CONNECTOR

CAUTION FOR FFC WITH CONNECTOR INSTALLATION AT PANEL SIDE

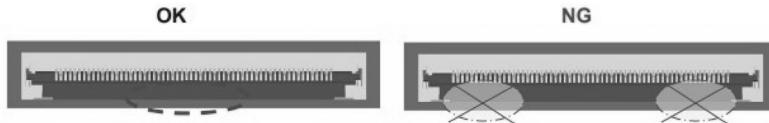


CAUTION FOR FFC WITH CONNECTOR INSTALLATION AT MB SIDE

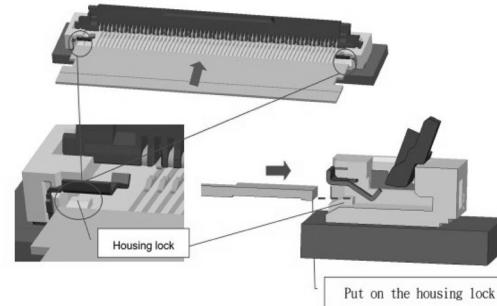


### FFC INSERTION CAUTION

Please operate in the center of the cover, and do not operate on both sides

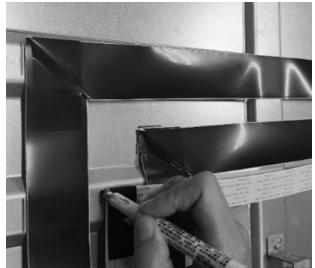


FFC insert : FFC must be put on the housing lock



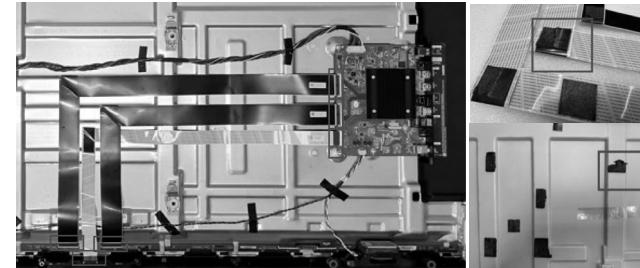
## FFC PRECAUTIONS

### CAUTION FOR TAPE CLEANING FOR FFC REPLACEMENT

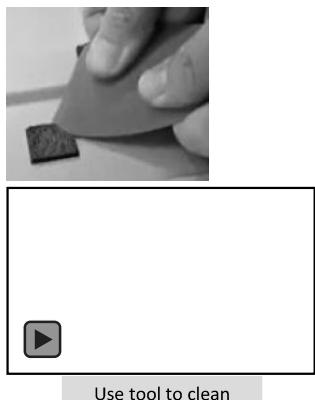


 Anker El-700.725  
 Anker El-30.50.70.90  
 Anker El-250

1. Mark position of FFC before removal by recommended mark pen as above.



2. Release connectors and then remove FFC.



Use tool to clean



If there is any residue after removing cushion, use next method to remove the residue.



Use tape to clean

3-1. Tape cleaning - Remove double-side cushion.

3-2. Tape cleaning - Remove the residue.

#### Auxiliary Tools



Hard Plastic Sheet



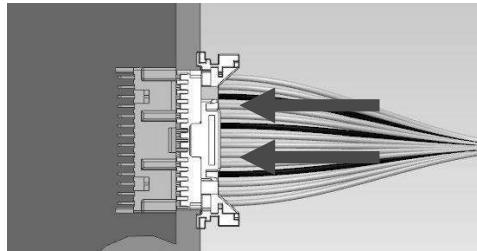
Paper Tape

## HARNESS PRECAUTIONS

### HARNESS INSERTION METHOD

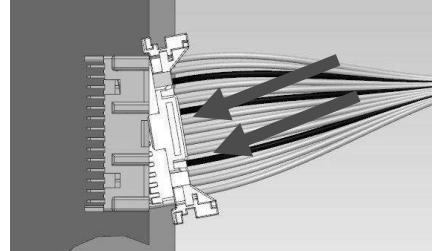
ESSENTIAL CAUTION INFO THAT MUST BE FOLLOWED BY PRODUCTION FOR HARNESS INSERTION

**Straight Insert**

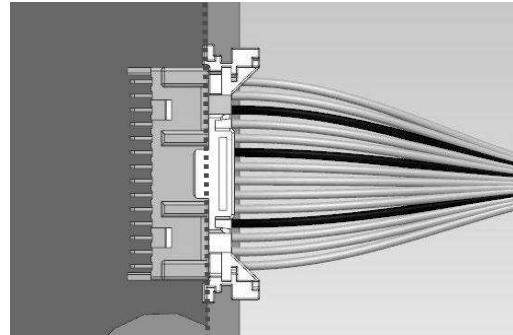


INSERT HARNESS IN  
STRAIGHT CONDITION

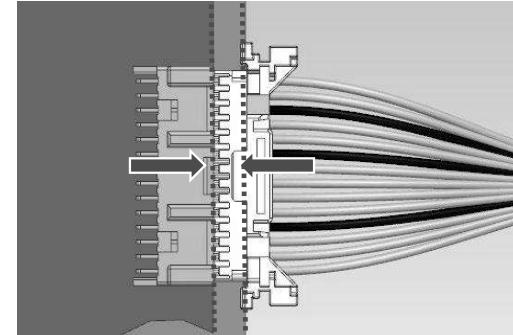
**Slanting Insert**



DO NOT INSERT HARNESS IN SLANTING  
CONDITION



Harness is fully insert & locked  
(NO GAP)



Harness is half insert  
(with GAP at lock area)

Note:  
Connector and housing image  
is for illustration only. Actual  
shape may differ.

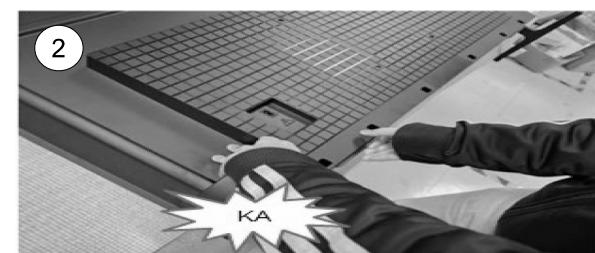
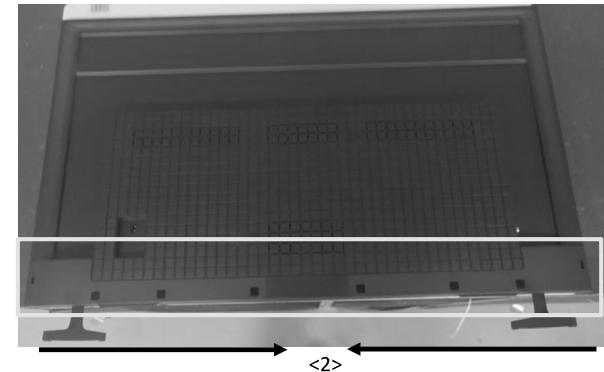
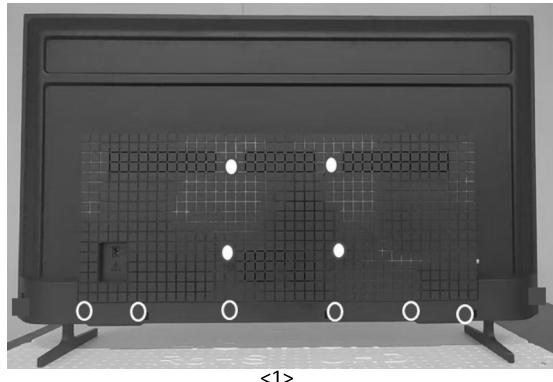
## SECTION 1: DISASSEMBLY AND REMOVAL CAUTION 43"

### REAR COVER

1. Remove the screws from the Rear Cover (12 pcs)

2. Unhook the bottom hook, starting from center.

- ① Pull up stand area of RC (show as the picture) and the hook-opening sound can be heard.
- ② Pinch the rear cover edge and pull up, then rear cover hooks will be released.

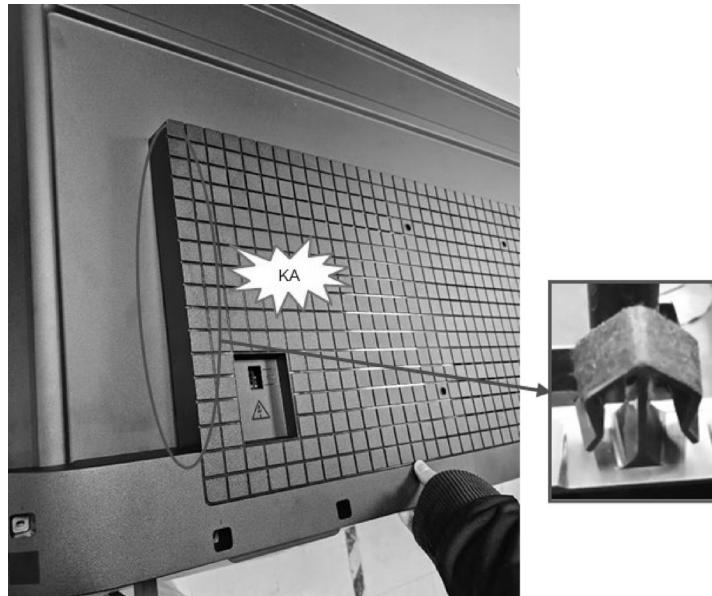


## SECTION 1: DISASSEMBLY AND REMOVAL CAUTION 43"

### REAR COVER

3. Unhook left and right side hooks.

Total Rear Cover back chassis : 4 hooks



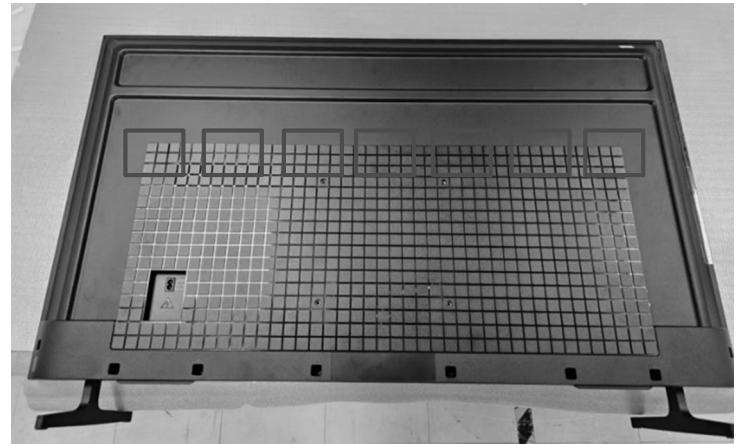
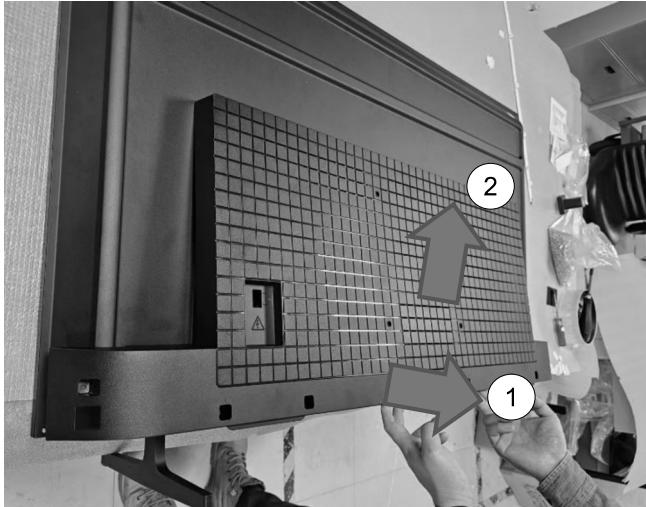
## SECTION 1: DISASSEMBLY AND REMOVAL CAUTION 43"

### REAR COVER

#### 4. Unhook top row

Total Rear Cover back chassis : 7 hooks

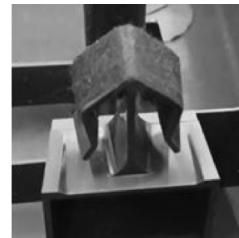
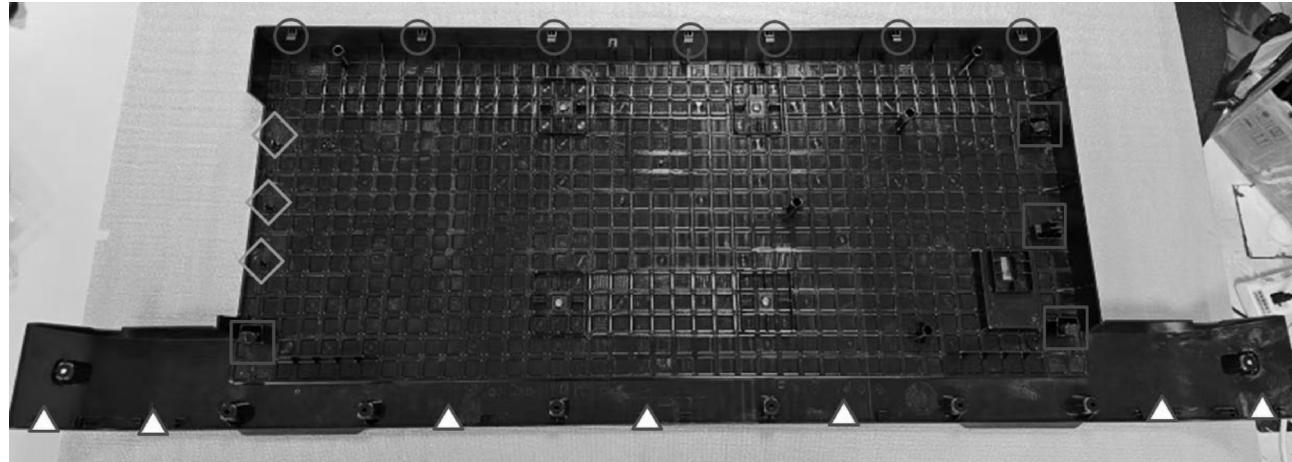
- ① Raise the RC towards back side.
- ② Push up the RC towards top side.



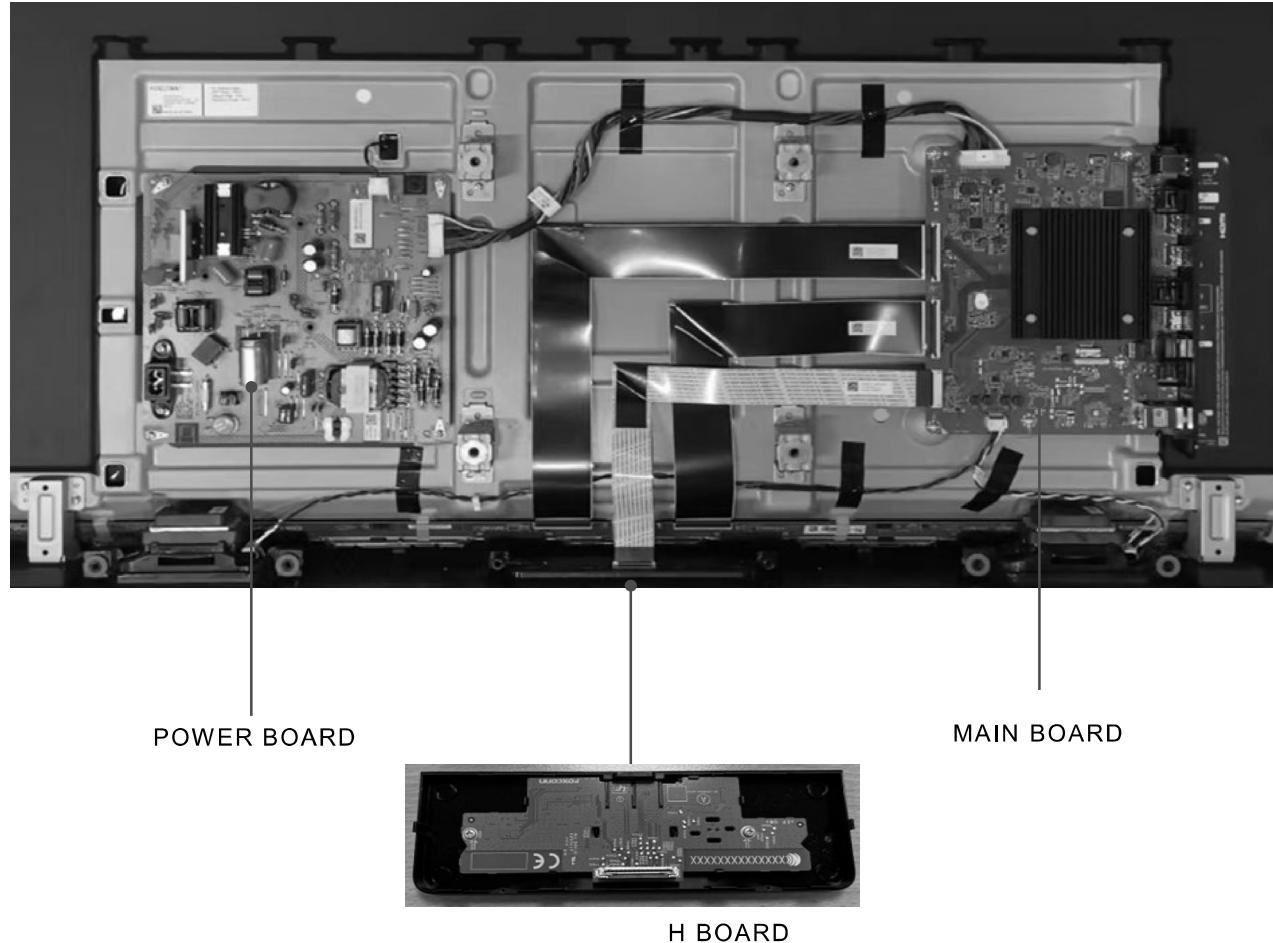
## SECTION 1: DISASSEMBLY AND REMOVAL CAUTION 43"

### REAR COVER

Hook positioning

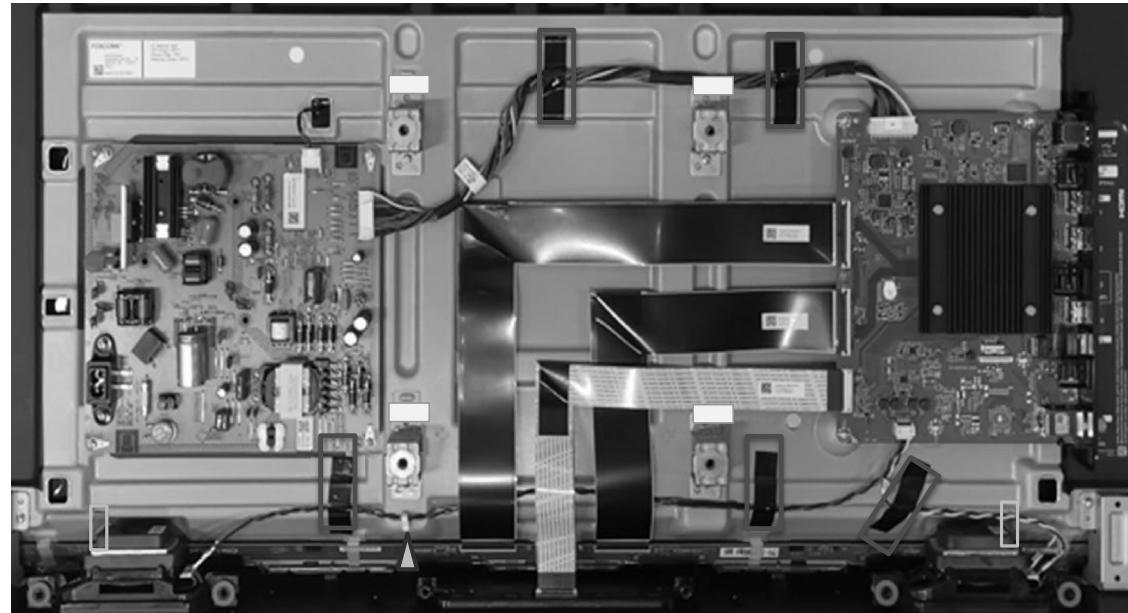


## SECTION 1: BOARD LOCATION 43"



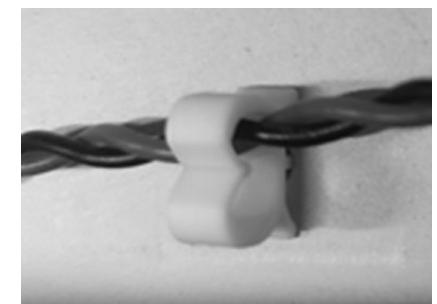
## SECTION 1: WIRE DRESSING 43"

### WIRE DRESSING



<input type="checkbox"/> HOLE COVER TAPE, SLIVER	4pcs
<input type="checkbox"/> 3M WIRE TAPE BLACK,15*60MM	5pcs
<input type="checkbox"/> EMI TAPE 40*10MM	2pcs
<input type="checkbox"/> CABLE LOCKER	1pcs

Put SPK wire into cable locker



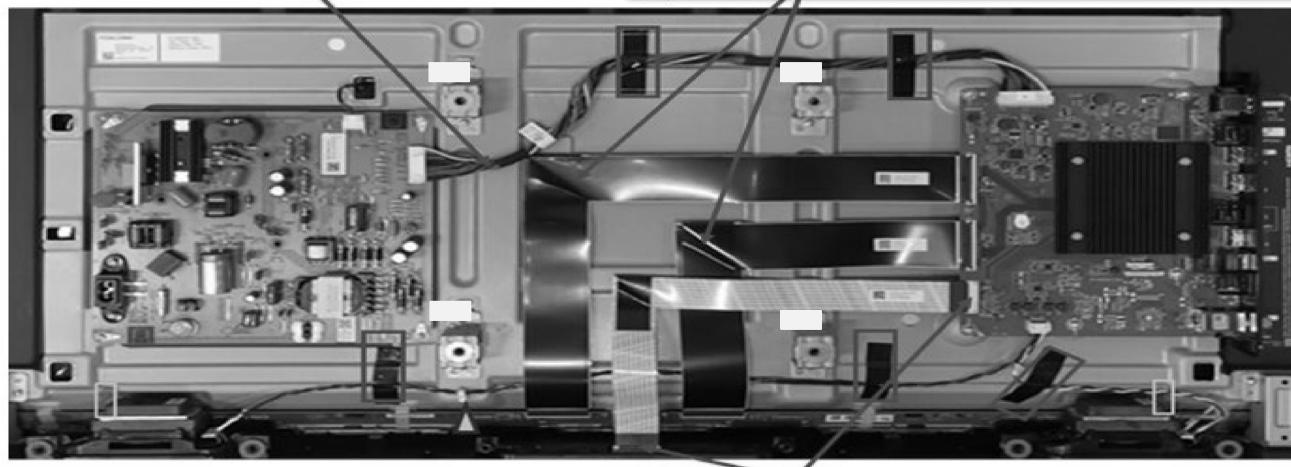
## SECTION 1: WIRE DRESSING 43"

### WIRE DRESSING

\*\*Note: Connect the connector firstly  
and then stick double side tape

Step3: Connect PSU cable with MB&PSU.

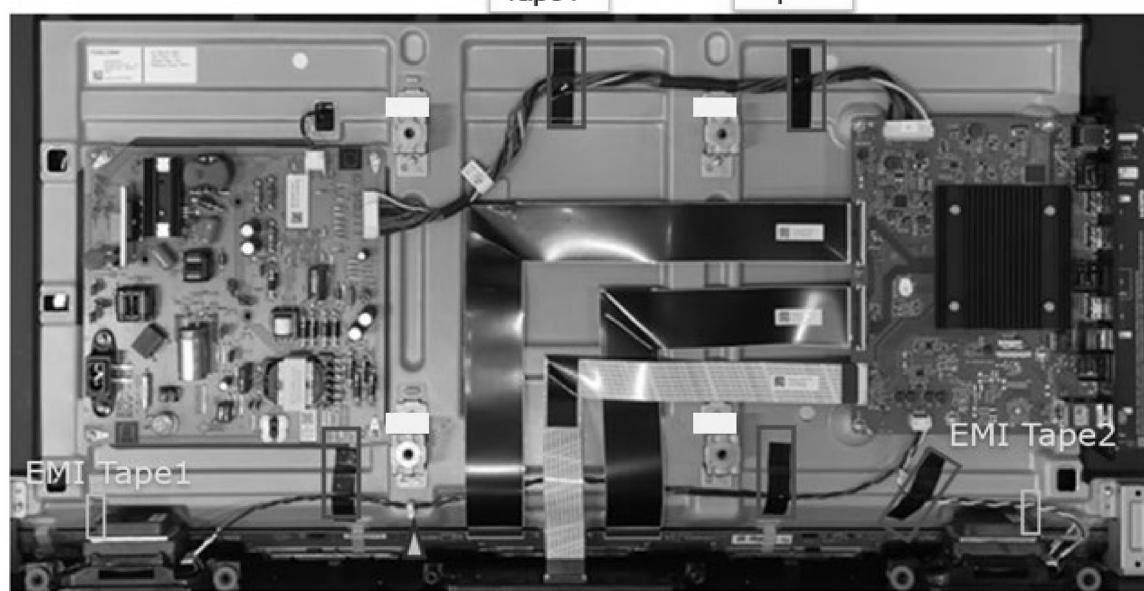
Step1: Connect VBO FFC with MB&SB. Remove double  
tape on back side to stick cable on BC.



Step2: Connect H-board FFC with MB. Remove double  
tape on back side to stick cable on BC.

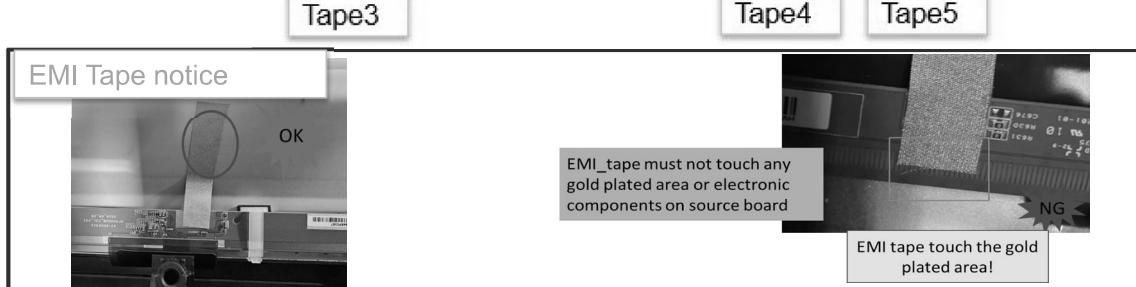
## SECTION 1: WIRE DRESSING 43"

### TAPE



Tape1

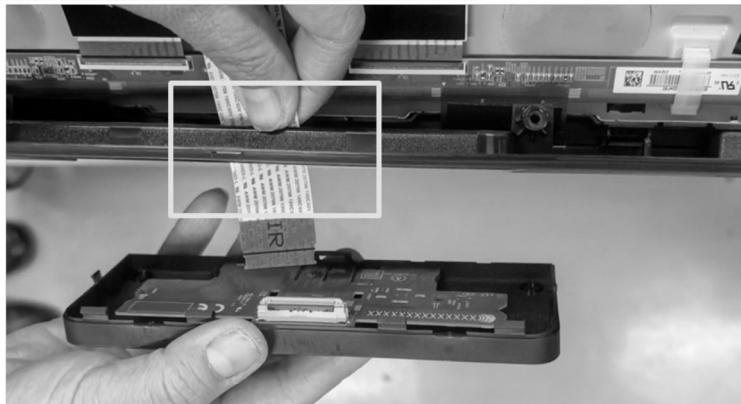
Tape2



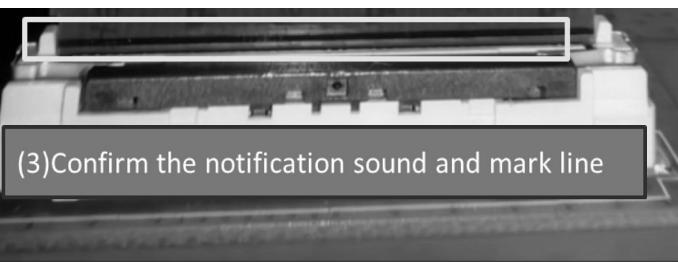
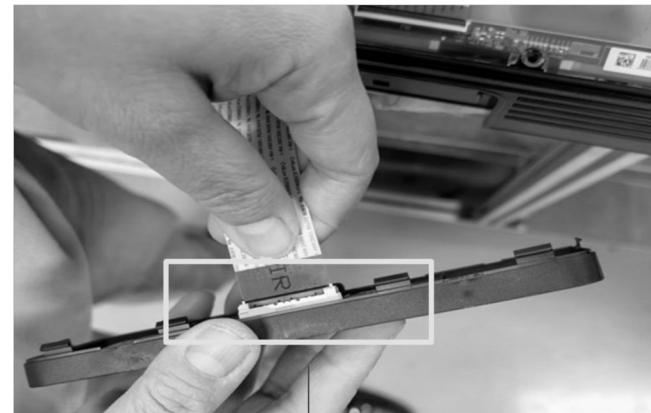
## SECTION 1: WIRE DRESSING 43"

### INFORMATION

(1)H\_BD FFC passes the bz hole



(2)H\_BD FFC assembled onto H\_BD



(3)Confirm the notification sound and mark line

## SECTION 1: EXPLODED VIEW AND PART LIST 43"

• Place the TV set facing downwards on a stable, level surface before disassembly and assembly of parts.

•  and shaded parts are critical for safety. Replace only with part number specified.

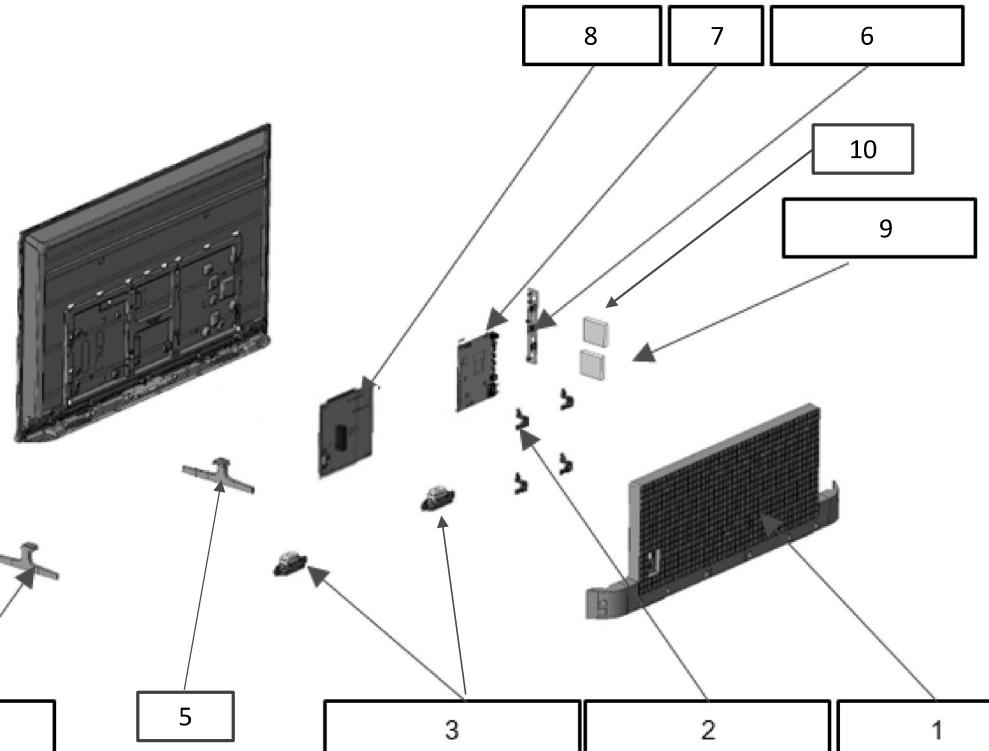
•  Parts contain confidential information. Strictly follow the instruction whenever the components are repaired and/or replaced

\\ (\*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.

\\ Picture provided in this section might have slight difference from the actual sets.

\\ The reference number beside the part indicates the disassembly sequence.

\\ Remove screws before disassembly. Unplug connectors before disassembly

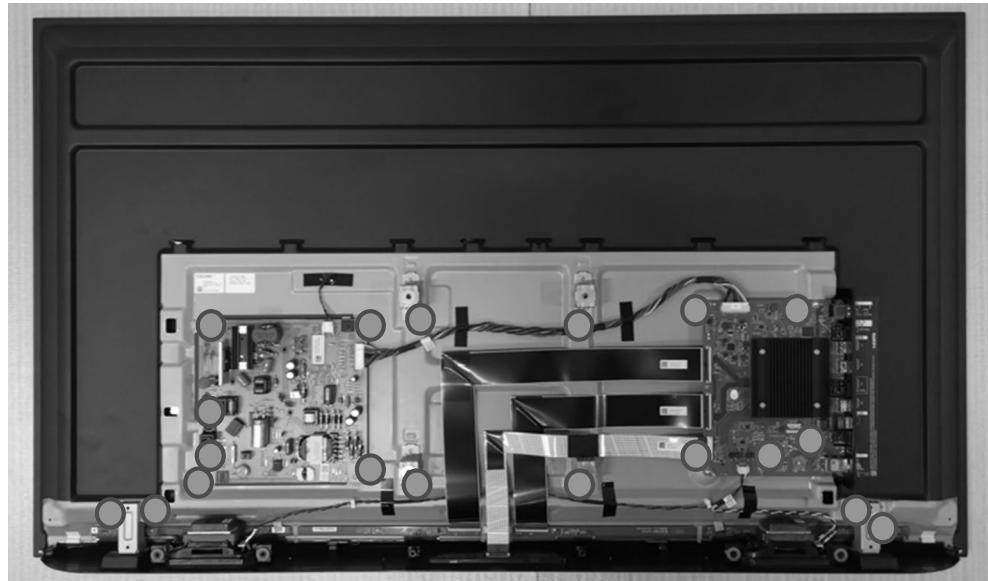


**SECTION 1: EXPLODED VIEW AND PART LIST 43"****SET PART LIST**

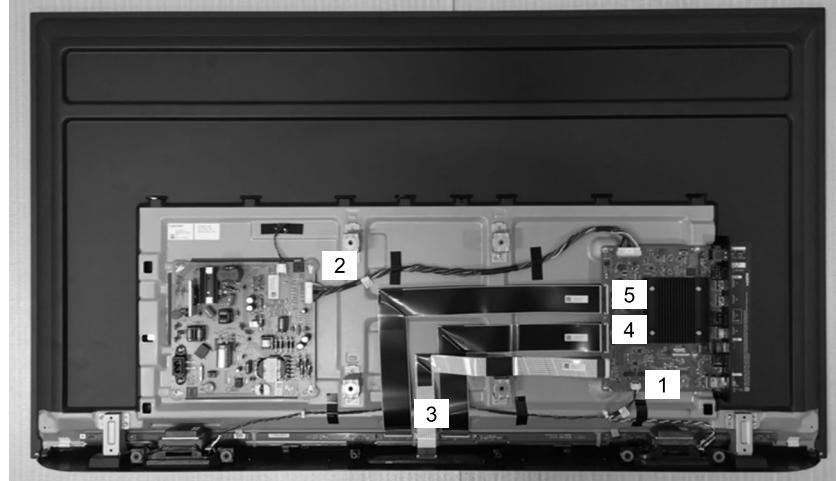
REF. NO	PART NO.	DESCRIPTION	K-43S20M2
			UCM/UC2
⚠ 1	5-066-824-01	REAR COVER ASSY	•
2	*5-066-791-01	VESA BRACKET	•
⚠ 3	1-024-589-11	LOUDSPEAKER 12W(43/50)	•
4	5-066-833-01	STAND ASSY(R-2) (43&50)	•
5	5-066-832-01	STAND ASSY(L-1) (43&50)	•
6	5-066-782-01	ASSY, I/O COVER (NA)	•
🔒 7	A-5079-534-A	MOUNTED PWB(MB) NA Y25 FBC	•
8	1-024-570-11	POWER SUPPLY 43(FSP123-1FS03)	•
9	5-068-102-01	THERMAL PAD 27X27	•
10	5-068-103-01	THERMALPAD,16*16*2.4MM,PINK	•

## SECTION 1: EXPLODED VIEW AND PART LIST 43"

### SCREW

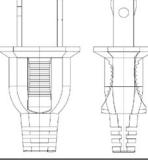


REF. NO	PART NO.	DESCRIPTION	QUANTITY	TORQUE (kgf.cm)
○	5-028-335-01	SCREW, M6*12	4	12±0.3
▲	2-580-639-01	SCREW, +BVTP 4X12 TYPE2 IT-3	6	9.5±0.3
□	4-729-978-01	SCREW, +PSW M3X8, W8, BLK	2	4.0±0.3
●	2-990-421-41	SCREW (+PSW) (M3X6)	19	4.0±0.3

**SECTION 1: EXPLODED VIEW AND PART LIST 43"****CONNECTOR**

REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-024-564-11	CONNECTOR ASSY 4P (MB-SP)_43	CN802(MB)-SP(1)
2	1-024-563-11	CONNECTOR ASSY 14P (MB-PSU)_43	CN2201(MB)-CN3(PSU-board)(1)
3	1-024-565-11	CONNECTOR ASSY 45P (MB-H BD)43	CN9001(MB)-CN901(H-BD)(1)
4	1-024-584-11	CABLE_FFC_P2P(2) 68P_43	CN6001(MB)-CNX_L1
5	1-024-583-11	CABLE_FFC_P2P(1) 68P_43	CN6002(MB)-CNX_R1

**SECTION 1: EXPLODED VIEW AND PART LIST 43"****OTHER PARTS**

PART NO.	DESCRIPTION	K-43S20M2	REMARKS
		UCM/UC2	
	1-012-957-21	C7L AC POWER CORD SETS (US)	• -
-	1-019-559-22	REMOTE CONTROLLER, RMF-TX820U	• -
-	*5-065-334-01	REFERENCE GUIDE	• -
-	*5-065-772-01	SETUP GUIDE	• -

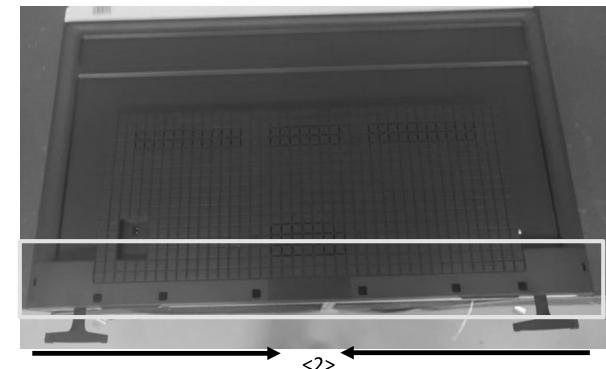
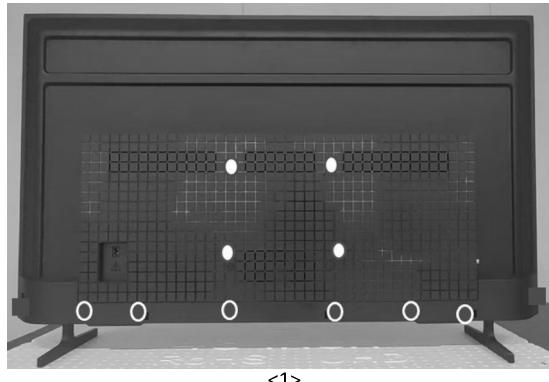
## SECTION 2: DISASSEMBLY AND REMOVAL CAUTION 50"

### REAR COVER

1. Remove the screws from the Rear Cover (12 pcs)

2. Unhook the bottom hook, starting from center.

- ① Pull up stand area of RC (show as the picture) and the hook-opening sound can be heard.
- ② Pinch the rear cover edge and pull up, then rear cover hooks will be released.

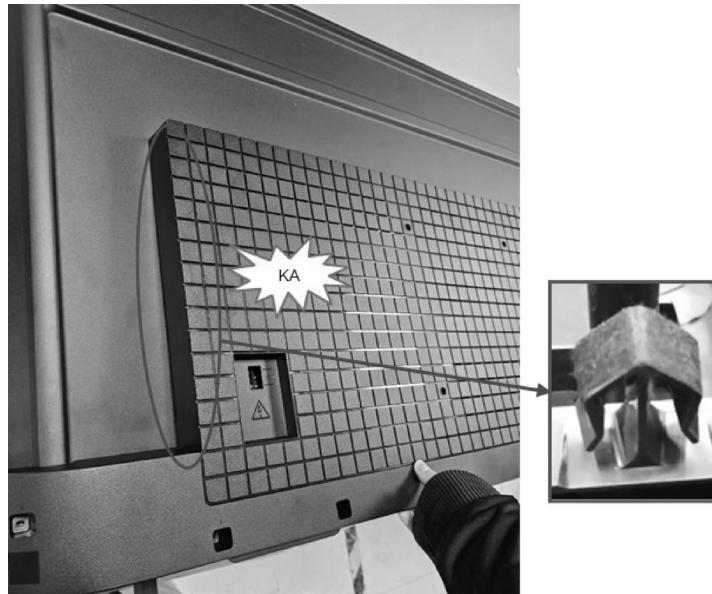


## SECTION 2: DISASSEMBLY AND REMOVAL CAUTION 50"

### REAR COVER

3. Unhook left and right side hooks.

Total Rear Cover back chassis : 9 hooks



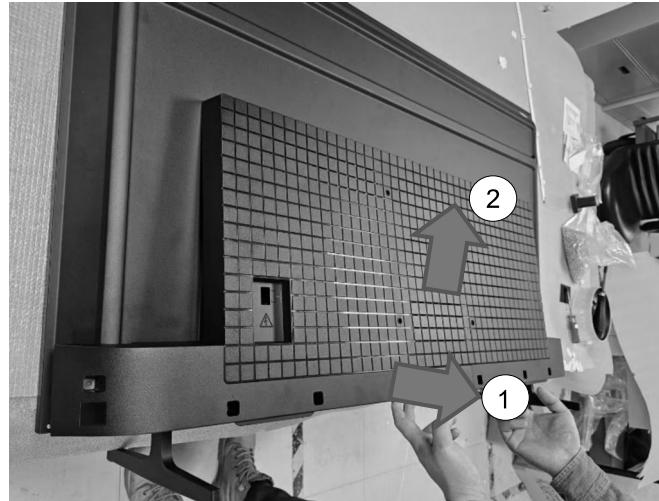
## SECTION 2: DISASSEMBLY AND REMOVAL CAUTION 50"

### REAR COVER

#### 4. Unhook top row

Total Rear Cover back chassis : 7 hooks

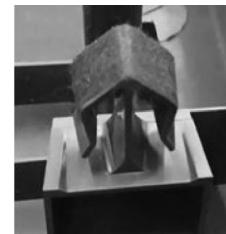
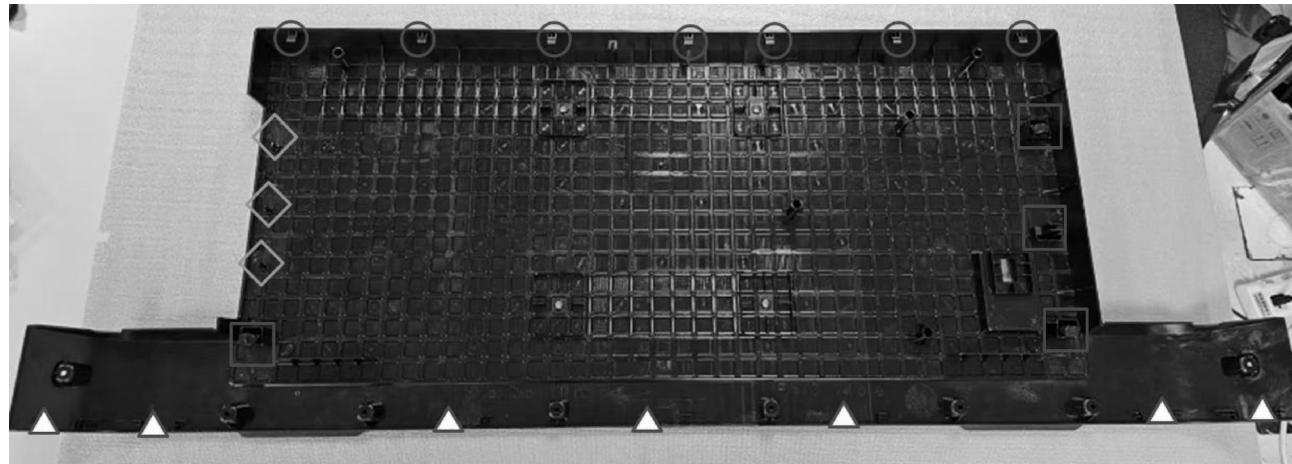
- ① Raise the RC towards back side.
- ② Push up the RC towards top side.



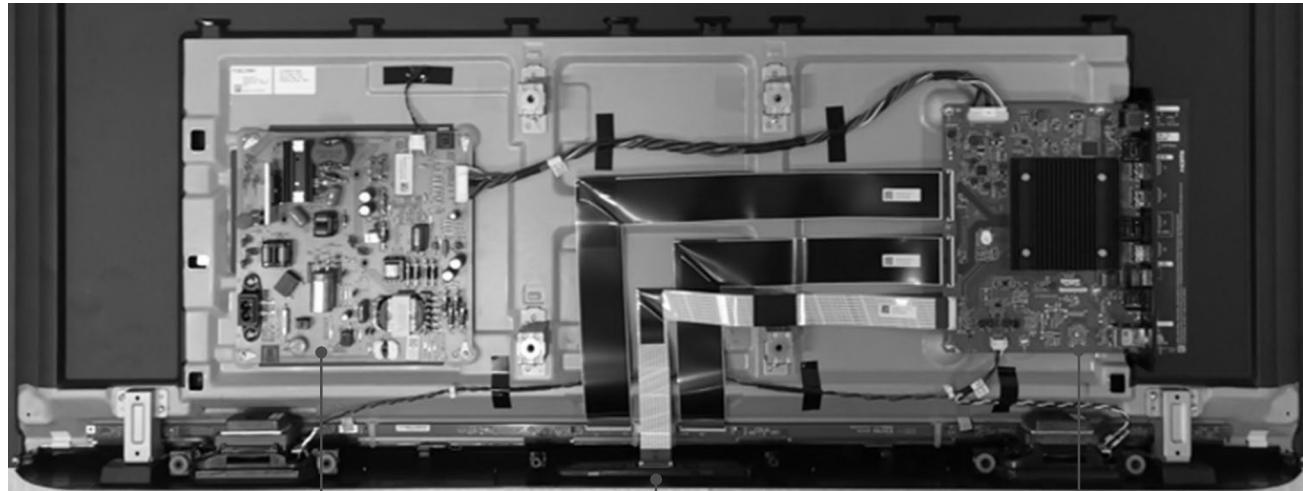
## SECTION 2: DISASSEMBLY AND REMOVAL CAUTION 50"

### REAR COVER

Hook positioning



## SECTION 2: BOARD LOCATION 50"



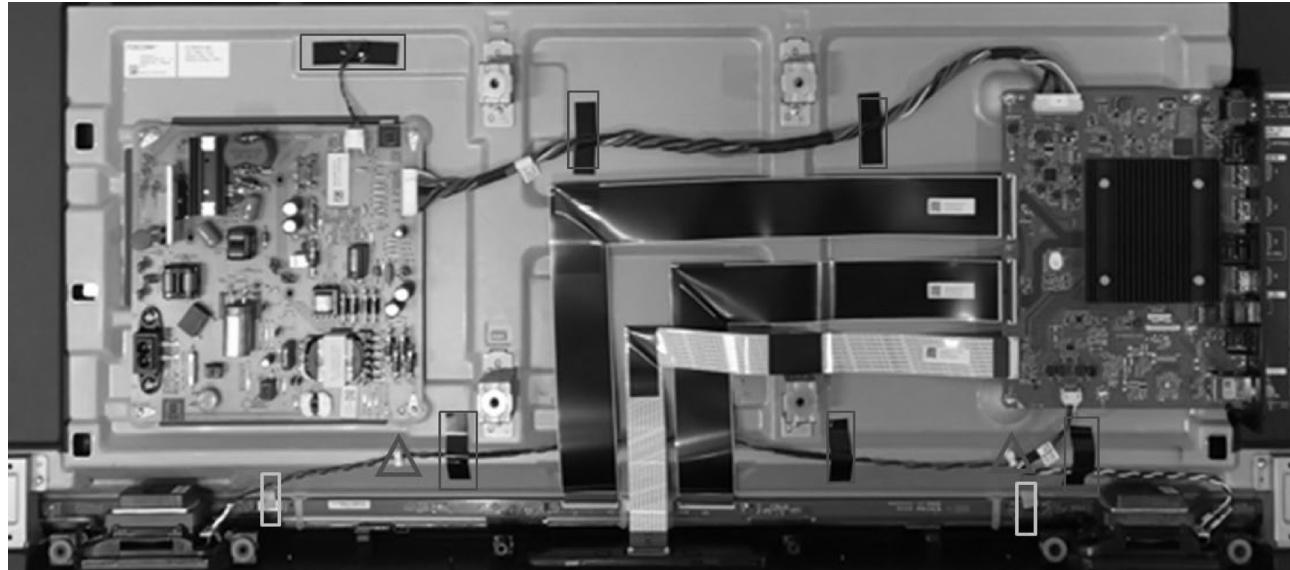
POWER BOARD

MAIN BOARD

H BOARD

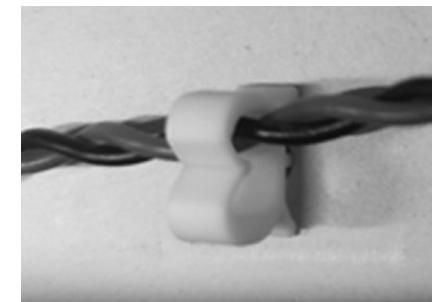
## SECTION 2: WIRE DRESSING 50"

### WIRE DRESSING



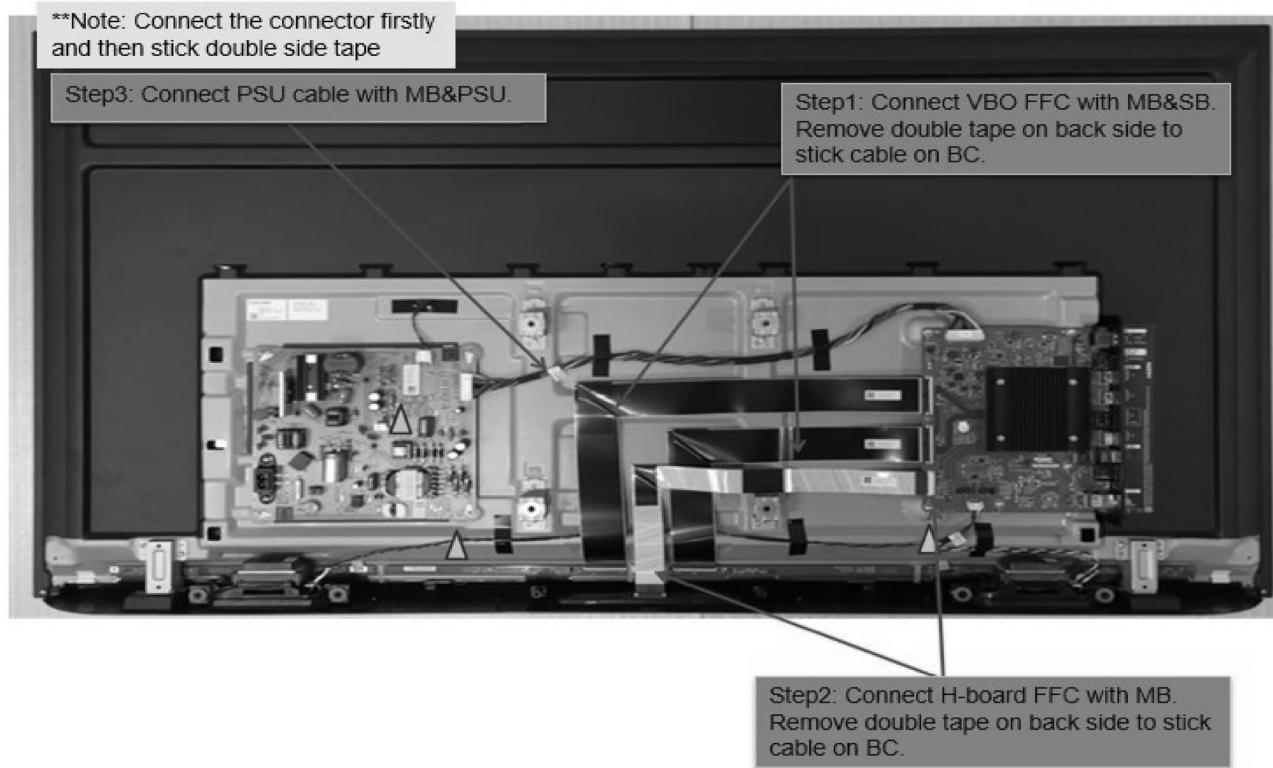
Put SPK wire into cable locker

- 3M WIRE TAPE BLACK,15\*60MM 6pcs
- EMI TAPE 40\*10MM 2pcs
- △ CABLE LOCKER 2pcs



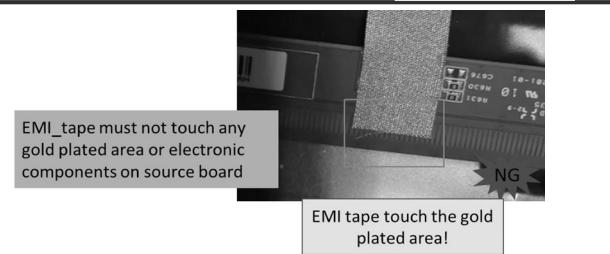
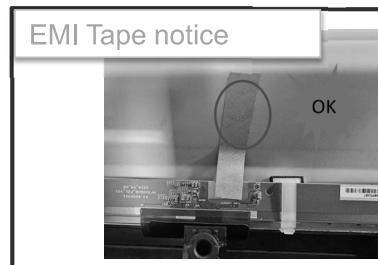
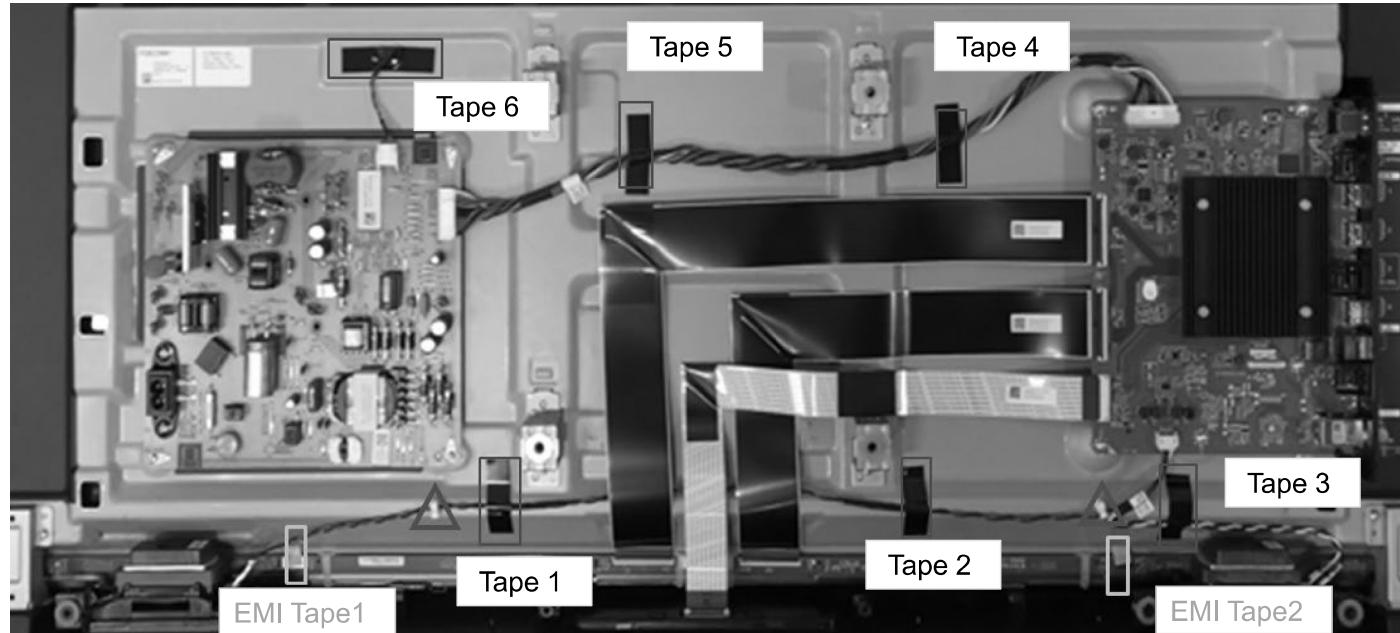
## SECTION 2: WIRE DRESSING 50"

### WIRE DRESSING



## SECTION 2: WIRE DRESSING 50"

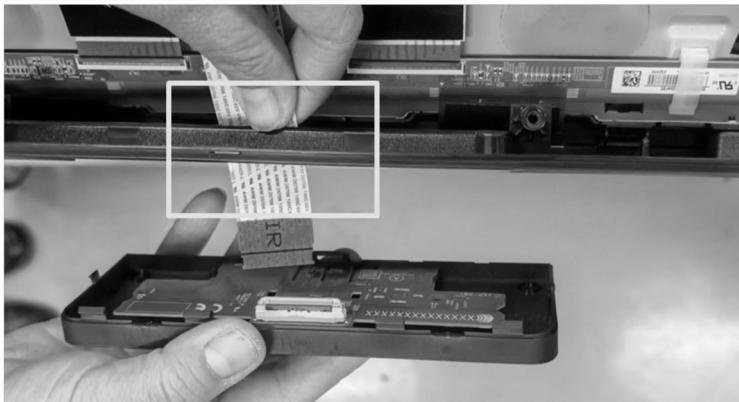
### TAPE



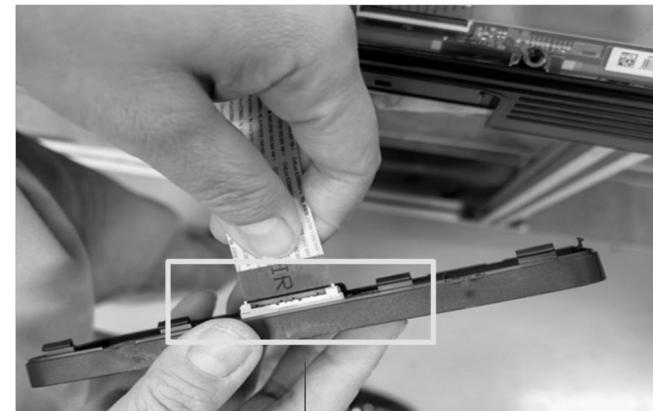
## SECTION 2: WIRE DRESSING 50"

### INFORMATION

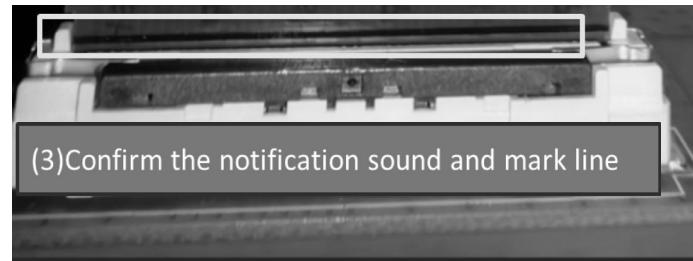
(1)H\_BD FFC passes the bz hole



(2)H\_BD FFC assembled onto H\_BD



(3)Confirm the notification sound and mark line



## SECTION 2: EXPLODED VIEW AND PART LIST 50"

• Place the TV set facing downwards on a stable, level surface before disassembly and assembly of parts.

•  and shaded parts are critical for safety. Replace only with part number specified.

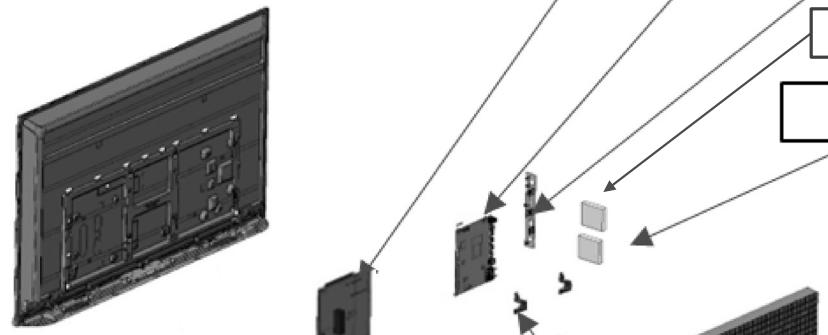
•  Parts contain confidential information. Strictly follow the instruction whenever the components are repaired and/or replaced

\\ (\*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.

\\ Picture provided in this section might have slight difference from the actual sets.

\\ The reference number beside the part indicates the disassembly sequence.

\\ Remove screws before disassembly. Unplug connectors before disassembly



4

5

3

2

1

8

7

6

10

9

**SECTION 2: EXPLODED VIEW AND PART LIST 50"****SET PART LIST**

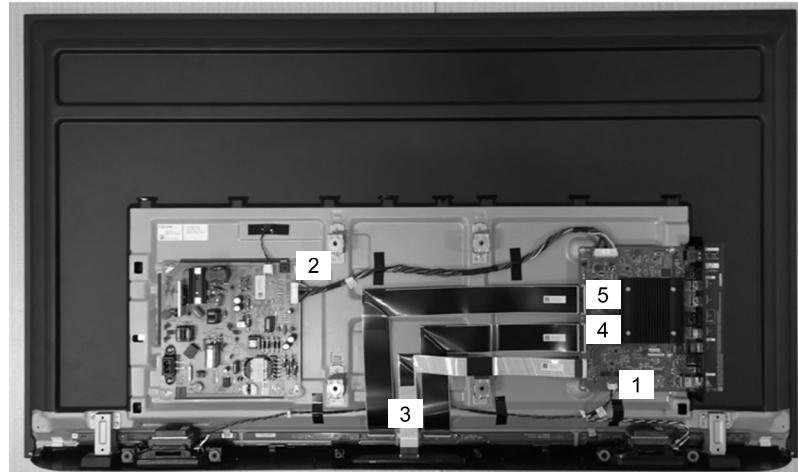
REF. NO	PART NO.	DESCRIPTION	K-50S20M2
			UCM/UC2
⚠ 1	5-066-831-01	REAR COVER ASSY	•
	2 *5-066-791-01	VESA BRACKET	•
⚠ 3	1-024-589-11	LOUDSPEAKER 12W(43/50)	•
	4 5-066-833-01	STAND ASSY(R-2) (43&50)	•
	5 5-066-832-01	STAND ASSY(L-1) (43&50)	•
	6 5-066-782-01	ASSY, I/O COVER (NA)	•
🔒 7	A-5079-534-A	MOUNTED PWB(MB) NA Y25 FBC	•
	8 1-024-569-11	POWER SUPPLY 50(FSP138-1FS02)	•
	9 5-068-102-01	THERMAL PAD 27X27	•
	10 5-068-103-01	THERMALPAD,16*16*2.4MM,PINK	•

## SECTION 2: EXPLODED VIEW AND PART LIST 50"

### SCREW

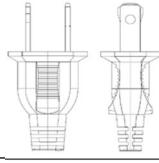


REF. NO	PART NO.	DESCRIPTION	QUANTITY	TORQUE (kgf.cm)
○	5-028-335-01	SCREW, M6*12	4	12±0.3
▲	2-580-639-01	SCREW, +BVTP 4X12 TYPE2 IT-3	6	9.5±0.3
□	4-729-978-01	SCREW, +PSW M3X8, W8, BLK	2	4.0±0.3
●	2-990-421-41	SCREW (+PSW) (M3X6)	19	4.0±0.3

**SECTION 2: EXPLODED VIEW AND PART LIST 50"****CONNECTOR**

REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-024-561-11	CONNECTOR ASSY 4P (MB-SP)_50	CN802(MB)-SP(1)
2	1-024-560-11	CONNECTOR ASSY 14P (MB-PSU)_50	CN2201(MB)-CN3(PSU-board)(1)
3	1-024-562-11	CONNECTOR ASSY 45P (MB-H BD)50	CN9001(MB)-CN901(H-BD)(1)
4	1-024-582-11	CABLE_FFC_P2P(2) 68P_50	CN6001(MB)-CNX_L1
5	1-024-581-11	CABLE_FFC_P2P(1) 68P_50	CN6002(MB)-CNX_R1

**SECTION 2: EXPLODED VIEW AND PART LIST 50"****OTHER PARTS**

PART NO.		DESCRIPTION	K-50S20M2	REMARKS
			UCM/UC2	
	!	1-012-957-21 C7L AC POWER CORD SETS (US)	•	-
-		1-019-559-22 REMOTE CONTROLLER, RMF-TX820U	•	-
-		*5-065-334-01 REFERENCE GUIDE	•	-
-		*5-065-772-01 SETUP GUIDE	•	-

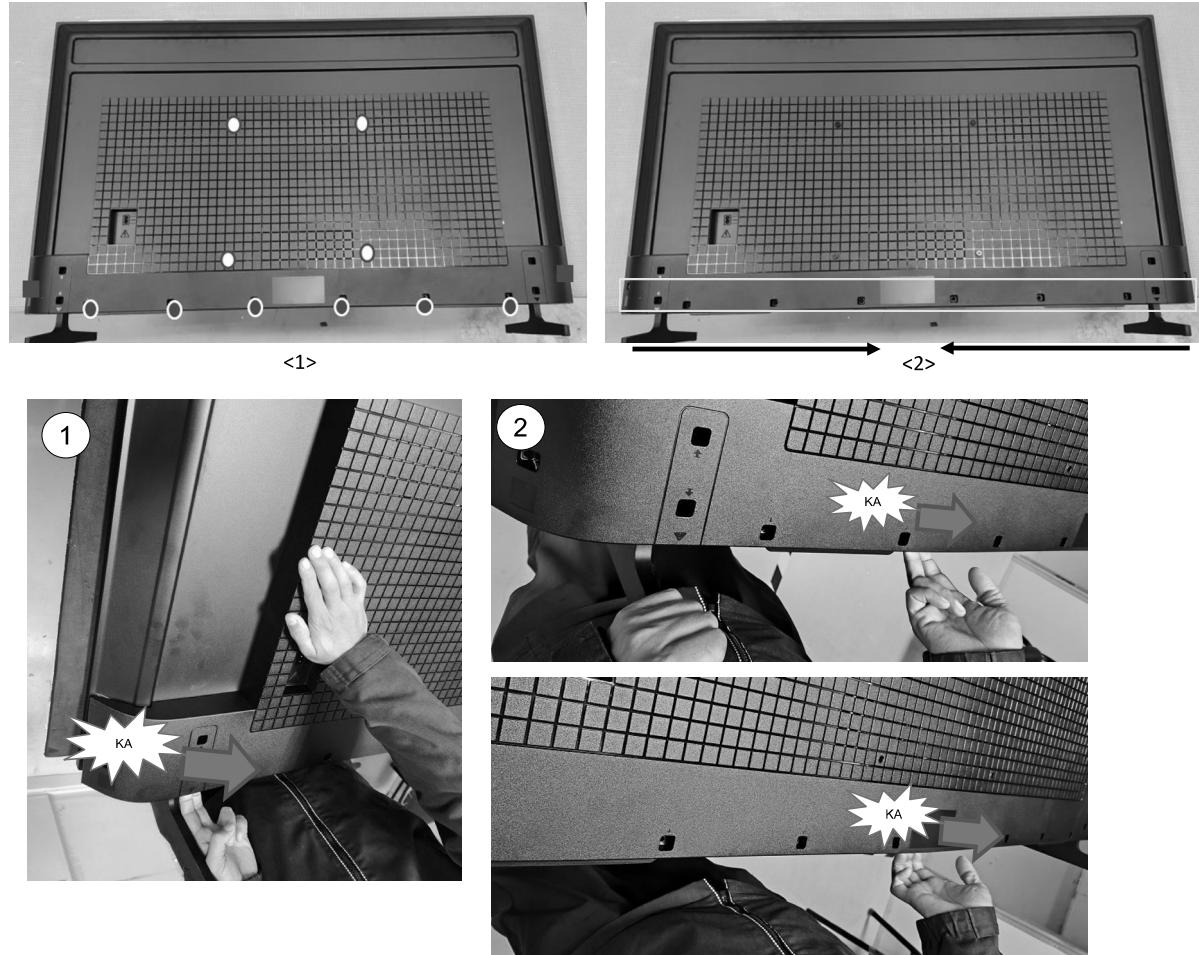
## SECTION 3: DISASSEMBLY AND REMOVAL CAUTION 55"

### REAR COVER

1. Remove the screws from the Rear Cover (12 pcs)

2. Unhook the bottom hook, starting from corner.

- ① Pull up stand area of RC (show as the picture) and the hook-opening sound can be heard.
- ② Pinch the rear cover edge and pull up, then rear cover hooks will be released.

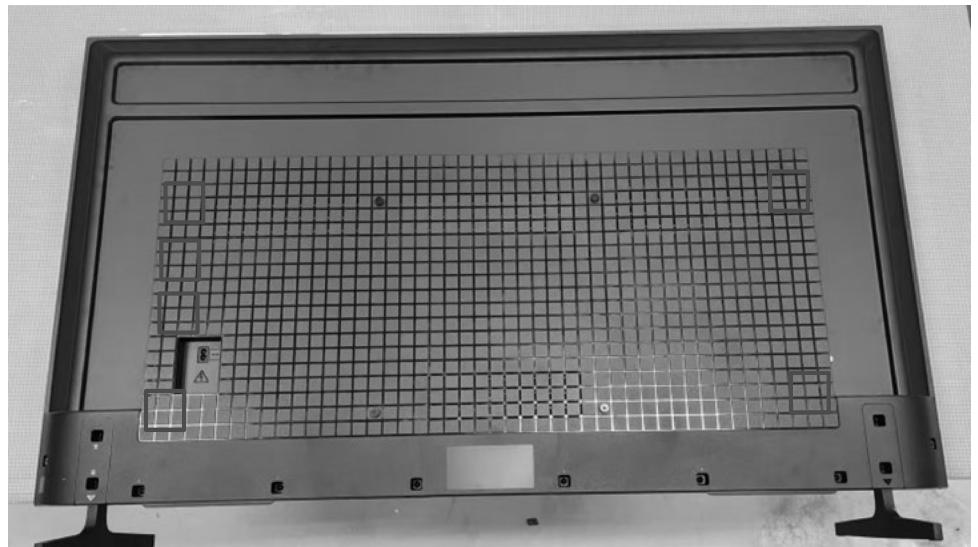
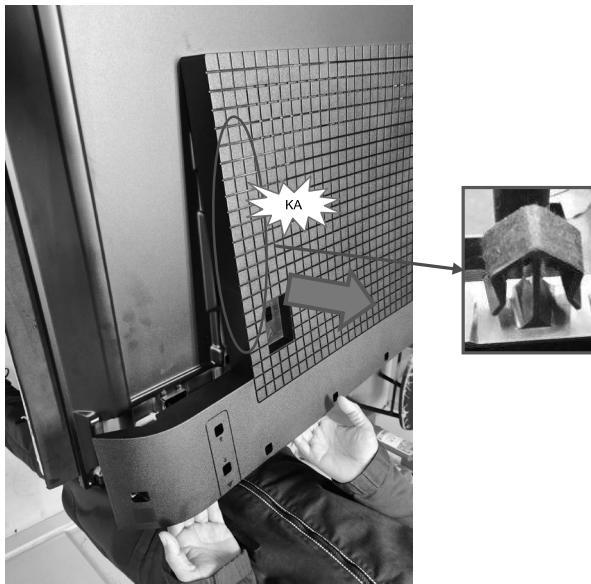


## SECTION 3: DISASSEMBLY AND REMOVAL CAUTION 55"

### REAR COVER

3. Unhook left and right side hooks.

Total Rear Cover back chassis : 6 hooks



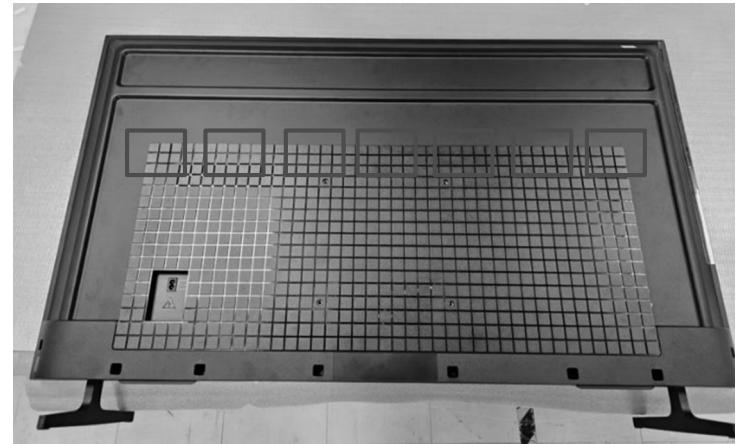
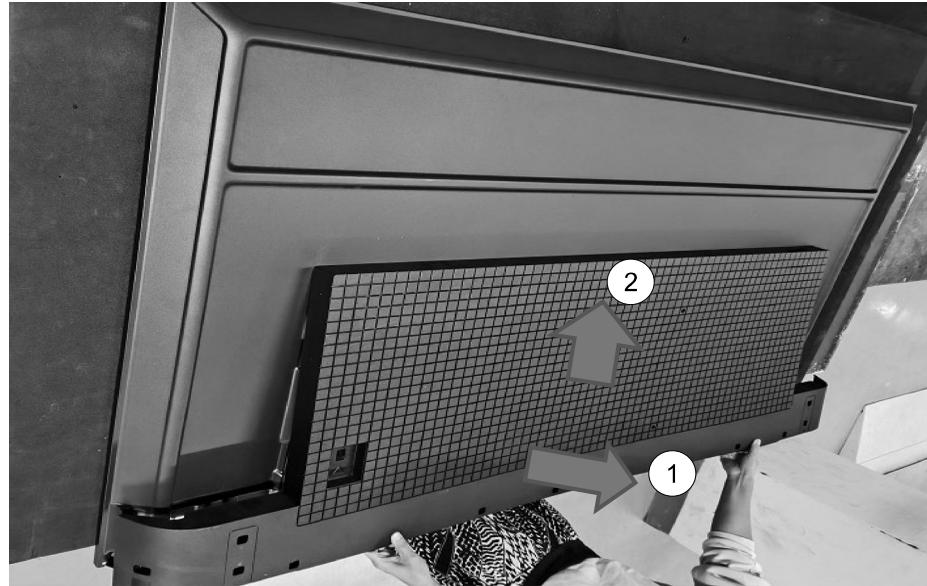
## SECTION 3: DISASSEMBLY AND REMOVAL CAUTION 55"

### REAR COVER

#### 4. Unhook top row.

Total Rear Cover back chassis : 7 hooks

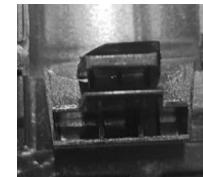
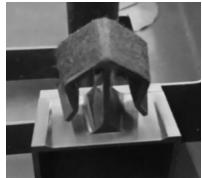
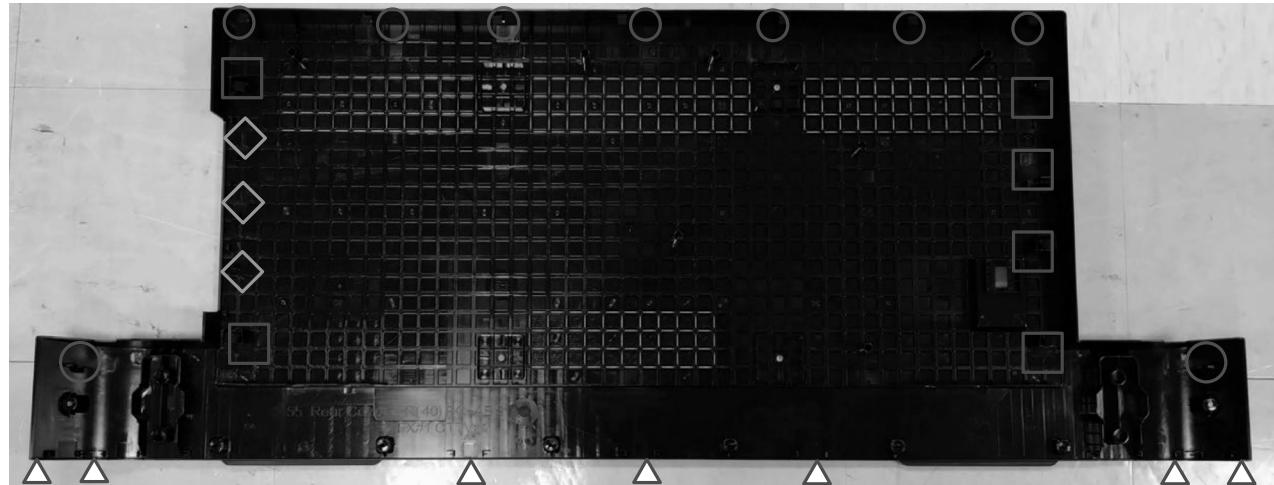
- ① Raise the RC towards back side
- ② Push up the RC towards top side



## SECTION 3: DISASSEMBLY AND REMOVAL CAUTION 55"

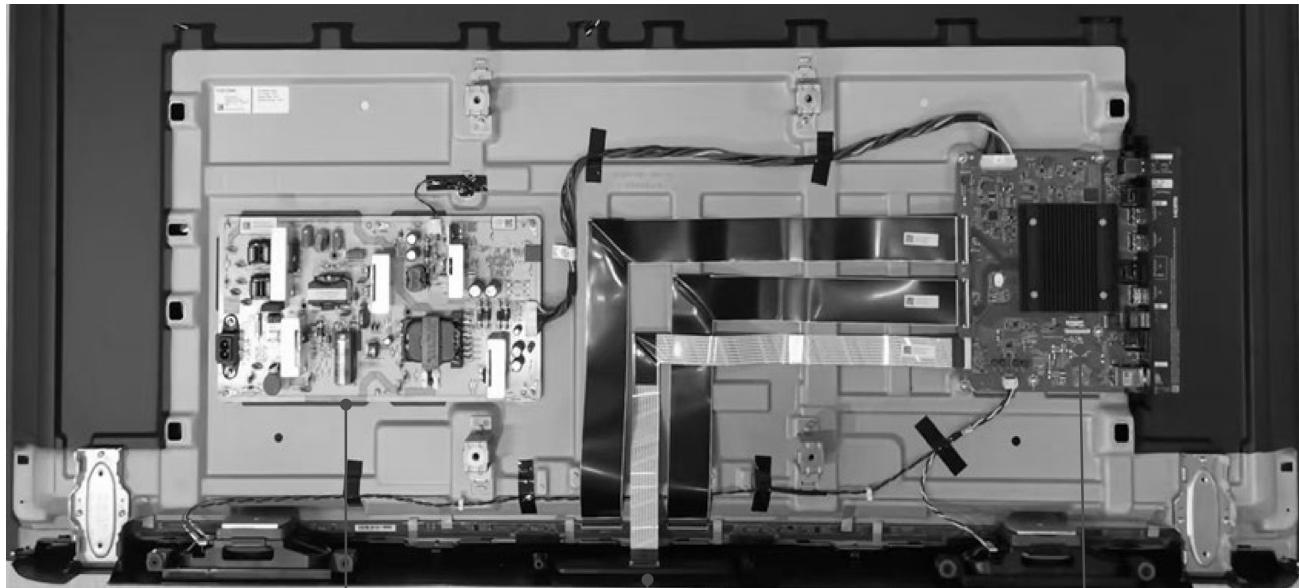
### REAR COVER

Hook positioning.



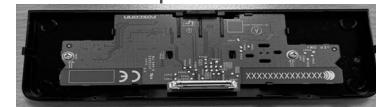
### SECTION 3: BOARD LOCATION 55"

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POWER BOARD

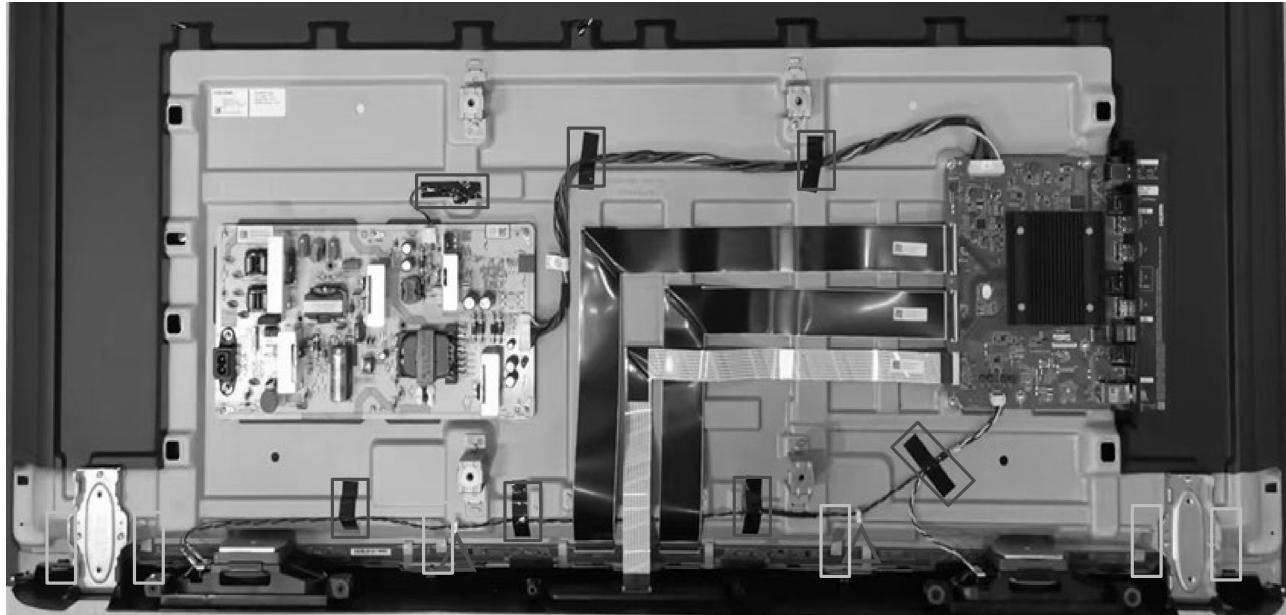
MAIN BOARD



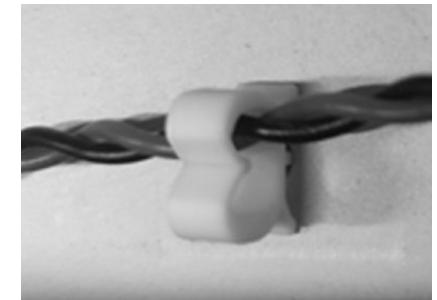
H BOARD

### SECTION 3: WIRE DRESSING 55"

#### WIRE DRESSING



Put SPK wire into cable locker



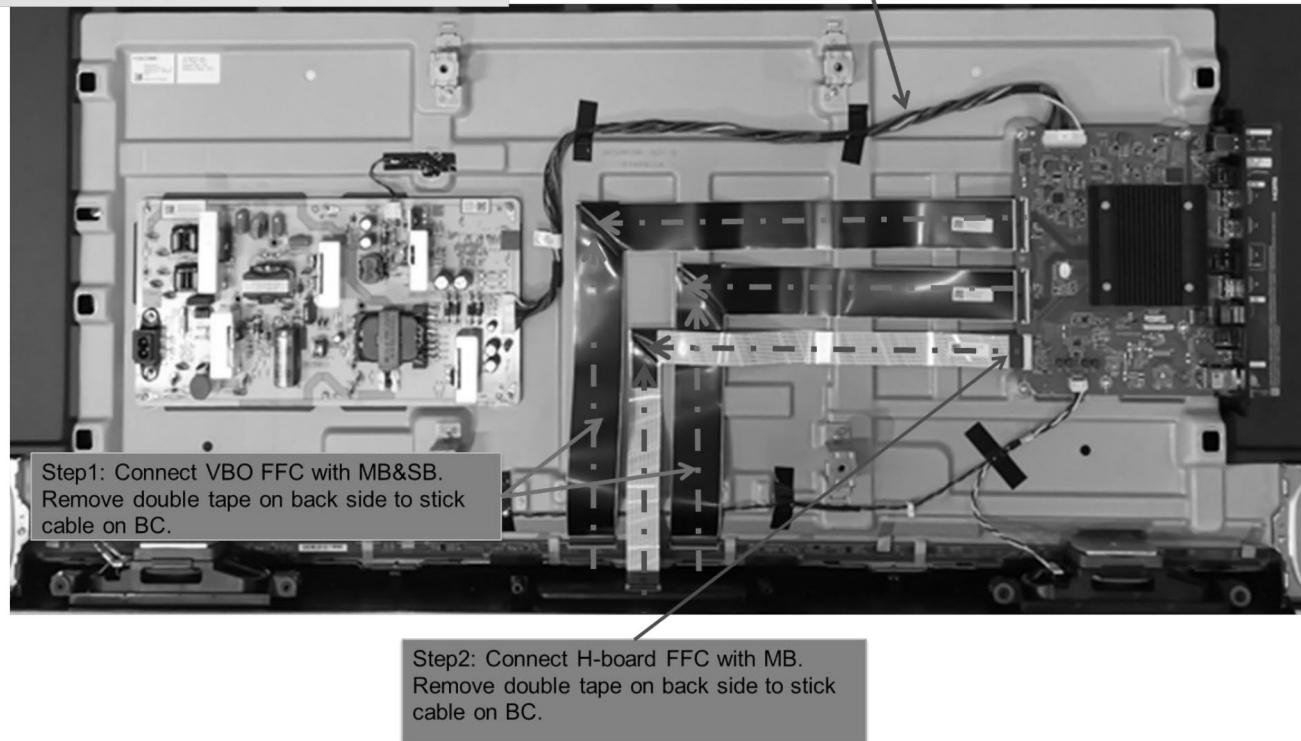
□	3M WIRE TAPE BLACK,15*60MM	7pcs
□	EMI TAPE 40*10MM	6pcs
△	CABLE LOCKER	2pcs

## SECTION 3: WIRE DRESSING 55"

### WIRE DRESSING

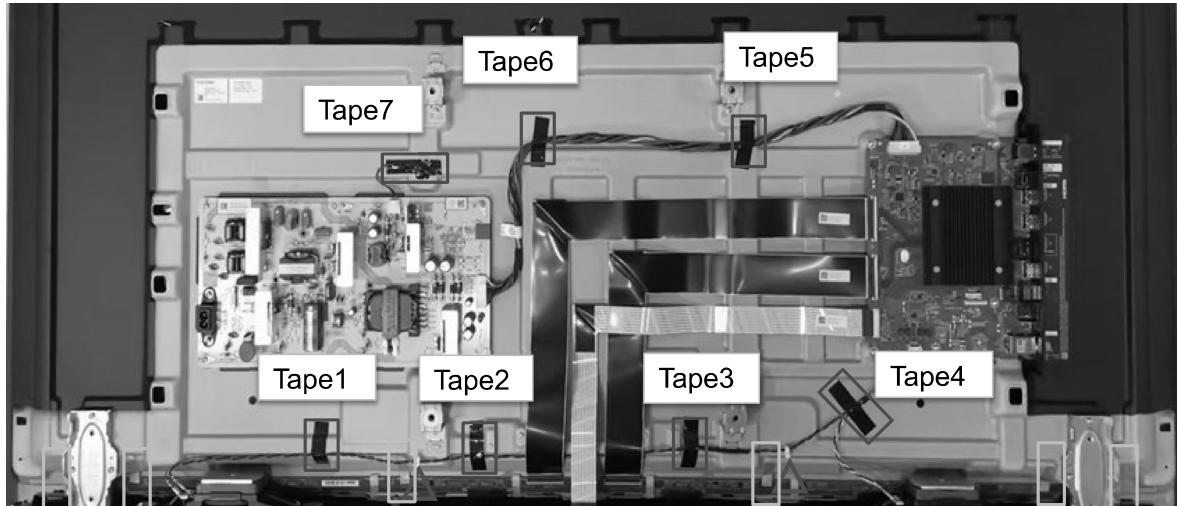
\*\*Note: Connect the connector firstly and then stick double side tape

Step3: Connect PSU cable with MB&PSU.



## SECTION 3: WIRE DRESSING 55"

### TAPE



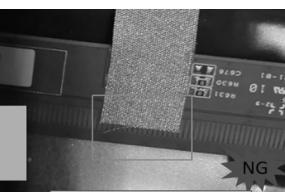
EMI Tape 1 & 6 notice



EMI Tape 2~5 notice



EMI\_tape must not touch any gold plated area or electronic components on source board

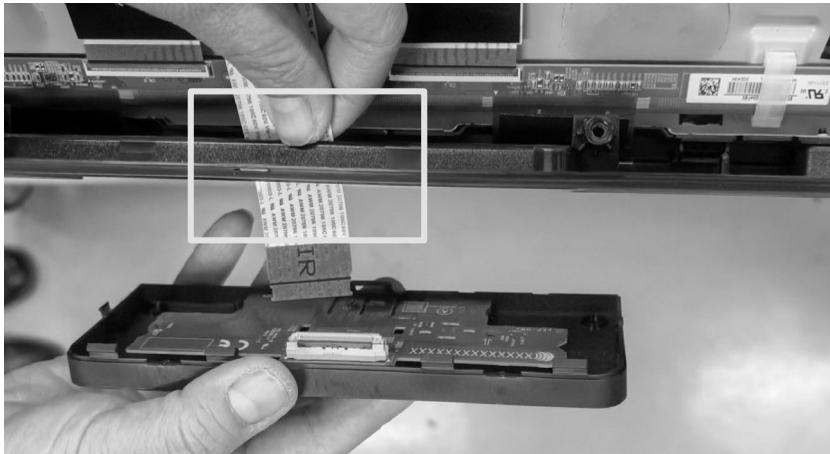


EMI tape touch the gold plated area!

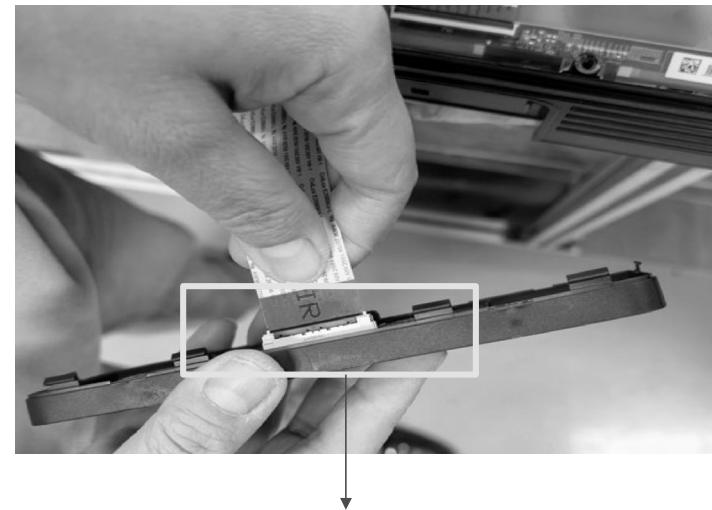
## SECTION 3: WIRE DRESSING 55"

### INFORMATION

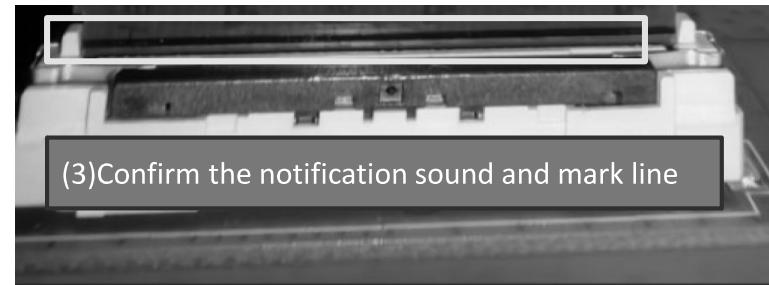
(1)H\_BD FFC passes the bz hole



(2)H\_BD FFC assembled onto H\_BD



(3)Confirm the notification sound and mark line



## SECTION 3: EXPLODED VIEW AND PART LIST 55"

• Place the TV set facing downwards on a stable, level surface before disassembly and assembly of parts.

•  and shaded parts are critical for safety. Replace only with part number specified.

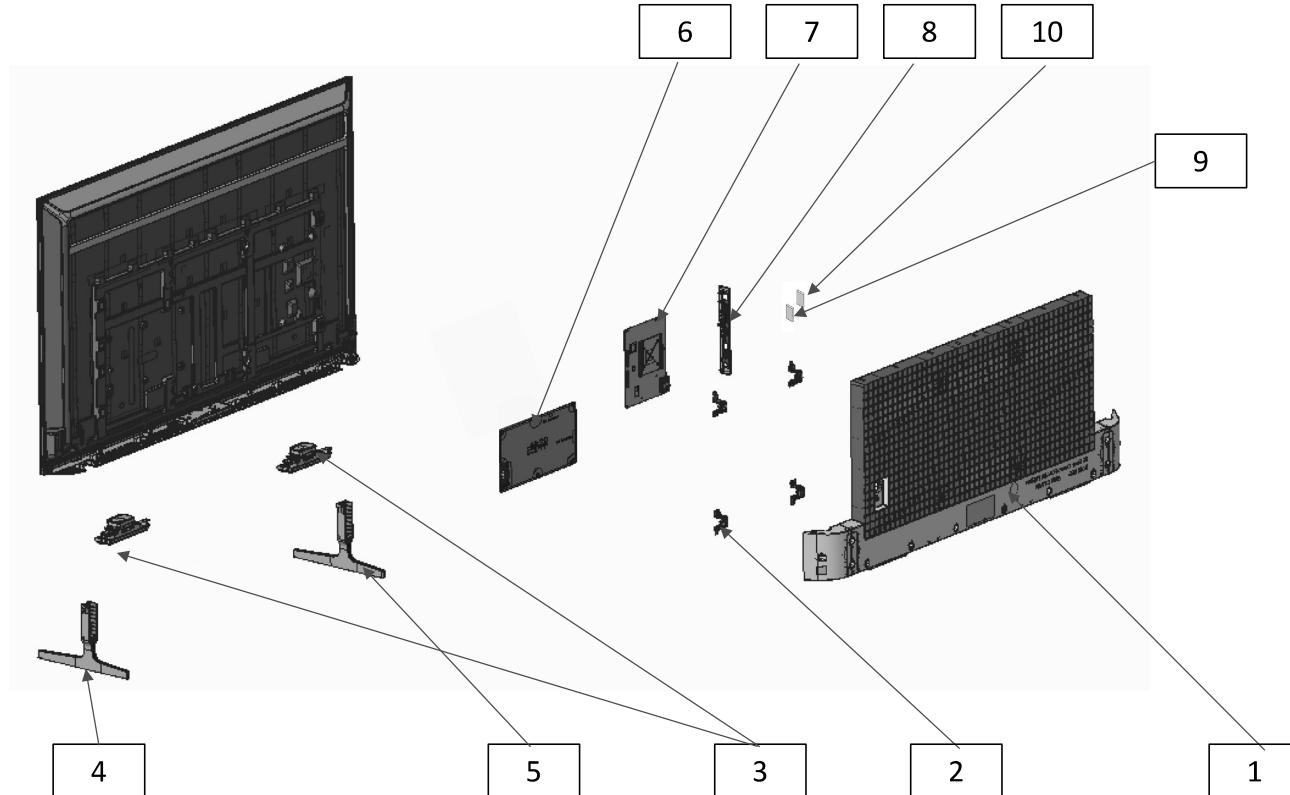
•  Parts contain confidential information. Strictly follow the instruction whenever the components are repaired and/or replaced

\\ (\*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.

\\ Picture provided in this section might have slight difference from the actual sets.

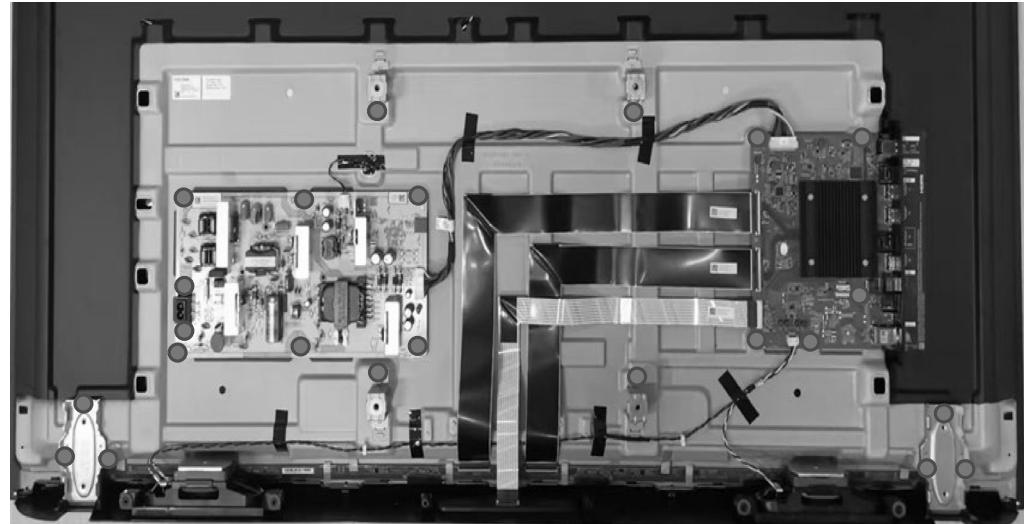
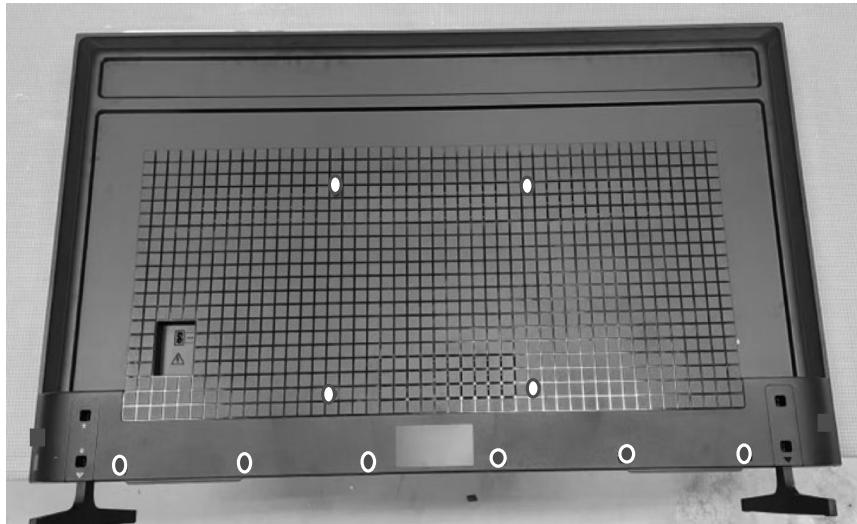
\\ The reference number beside the part indicates the disassembly sequence.

\\ Remove screws before disassembly. Unplug connectors before disassembly

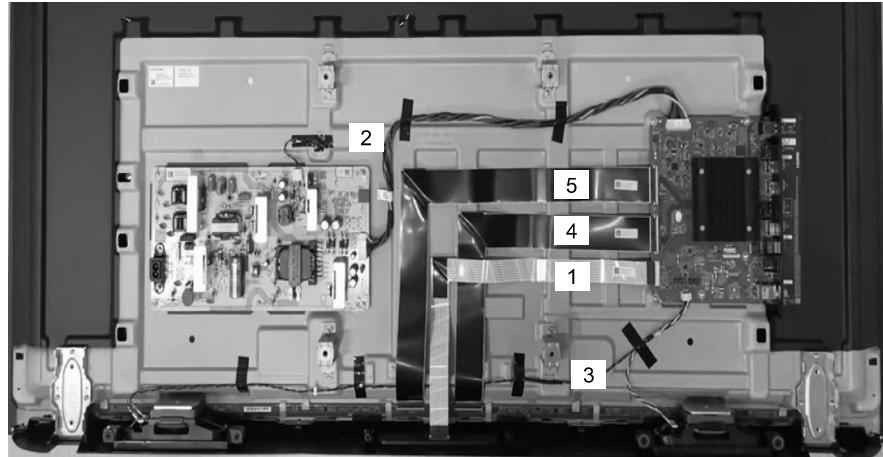


**SECTION 3: EXPLODED VIEW AND PART LIST 55"****SET PART LIST**

REF. NO	PART NO.	DESCRIPTION	K-55S20M2	K-55S20CM2
			UCM	U2
⚠ 1	5-066-815-01	ASSY, REAR COVER (55)	•	•
	2 *5-066-791-01	VESA BKT	•	•
⚠ 3	1-024-588-11	LOUDSPEAKER 12W(55/65/75)	•	•
	4 5-066-817-01	STAND ASSY(R-2) (55)	•	•
	5 5-066-816-01	STAND ASSY(L-1) (55)	•	•
	6 1-024-568-11	POWER SUPPLY 55(FSP169-1FS01)	•	•
🔒 7	A-5079-534-A	MOUNTED PWB(MB) NA Y25 FBC	•	•
	8 5-066-782-01	ASSY, I/O COVER (NA)	•	•
	9 5-068-102-01	THERMAL PAD 27X27	•	•
	10 5-068-103-01	THERMALPAD,16*16*2.4MM,PINK	•	•

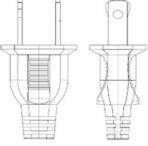
**SECTION 3: EXPLODED VIEW AND PART LIST 55"****SCREW**

REF. NO	PART NO.	DESCRIPTION	QUANTITY	TORQUE (kgf.cm)
○	5-028-335-01	SCREW, M6*12	4	12±0.3
●	2-580-639-01	SCREW, +BVTP 4X12 TYPE2 IT-3	6	9.5±0.3
■	4-729-978-01	SCREW, +PSW M3X8, W8, BLK	2	4.0±0.3
●	2-990-421-41	SCREW (+PSW) (M3X6)	23	4.0±0.3

**SECTION 3: EXPLODED VIEW AND PART LIST 55"****CONNECTOR**

REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-024-559-11	CONNECTOR ASSY 45P (MB-H BD)55	CN802(MB)-SP(1)
2	1-024-557-11	CONNECTOR ASSY 14P (MB-PSU)_55	CN2201(MB)-CN3(PSU-board)(1)
3	1-024-558-11	CONNECTOR ASSY 4P (MB-SP)_55	CN9001(MB)-CN901(H-BD)(1)
4	1-024-579-11	CABLE_FFC_P2P(2) 68P_55	CN6001(MB)-CNX_L1
5	1-024-580-11	CABLE_FFC_P2P(1) 68P_55	CN6002(MB)-CNX_R1

**SECTION 3: EXPLODED VIEW AND PART LIST 55"****OTHER PARTS**

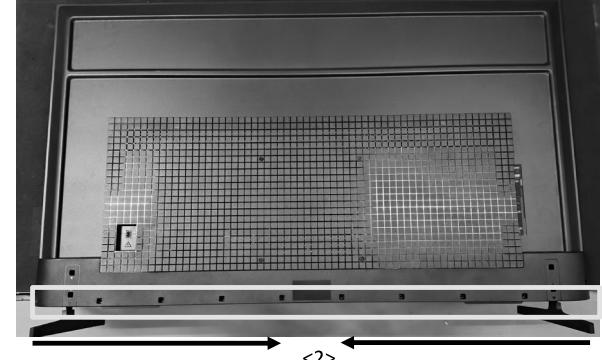
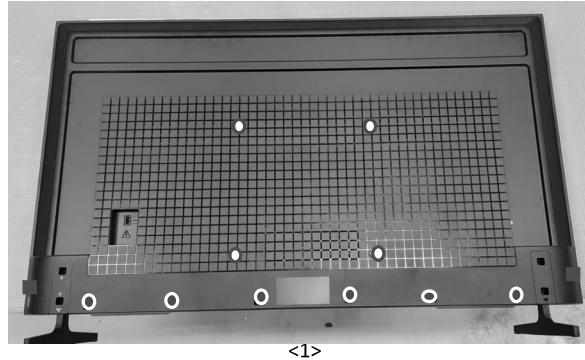
PART NO.	DESCRIPTION	K-55S20M2	K-55S20CM2	REMARKS
		UCM	U2	
	1-012-957-21	C7L AC POWER CORD SETS (US)	•	• -
-	1-019-559-22	REMOTE CONTROLLER, RMF-TX820U	•	• -
-	*5-065-334-01	REFERENCE GUIDE	•	• -
-	*5-065-339-01	SETUP GUIDE	•	• -

## SECTION 5: DISASSEMBLY AND REMOVAL CAUTION 65"

### REAR COVER

1. Remove the screws from the Rear Cover (12 pcs)

2. Unhook the bottom hook, starting from corner.



- ① Pull up stand area of RC (show as the picture) and the hook-opening sound can be heard.
- ② Pinch the rear cover edge and pull up, then rear cover hooks will be released.

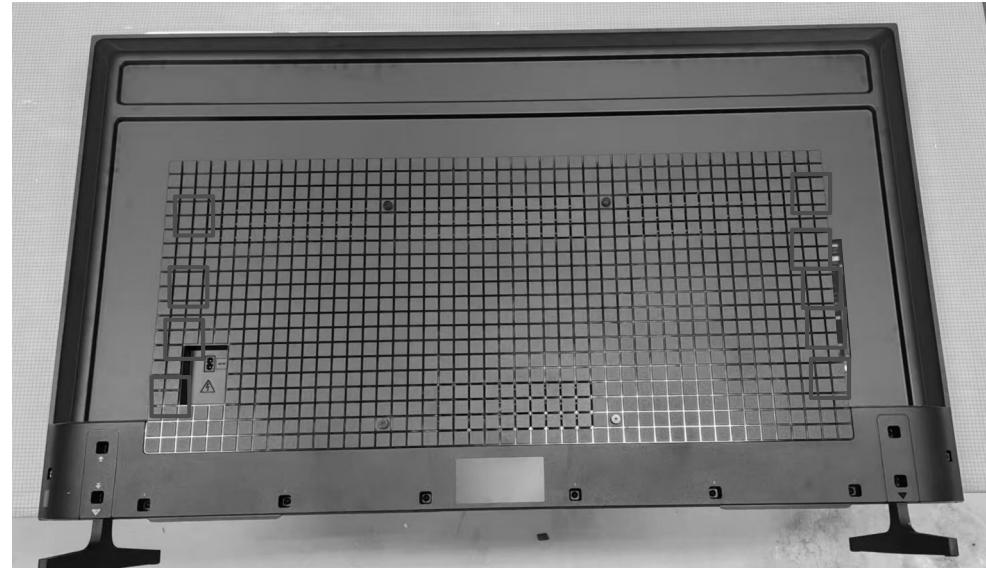
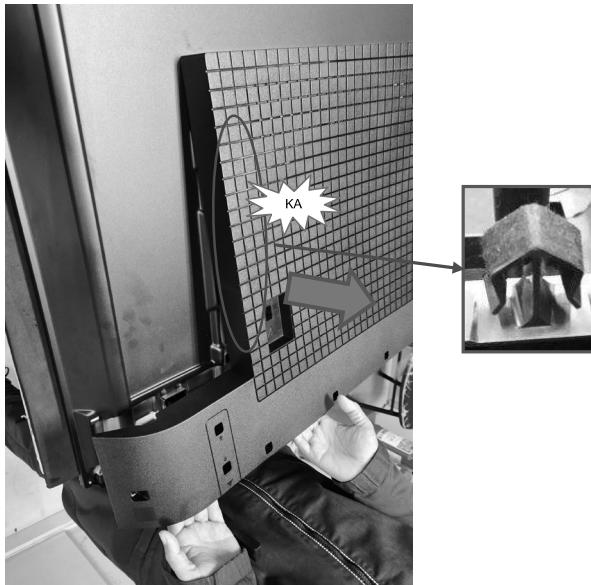


## SECTION 5: DISASSEMBLY AND REMOVAL CAUTION 65"

### REAR COVER

3. Unhook left and right side hooks.

Total Rear Cover back chassis : 9 hooks



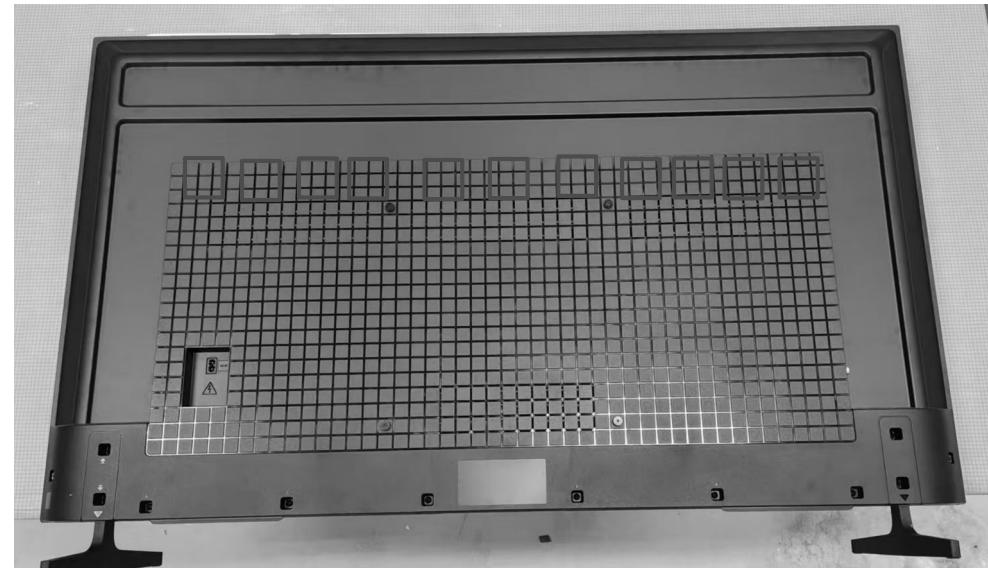
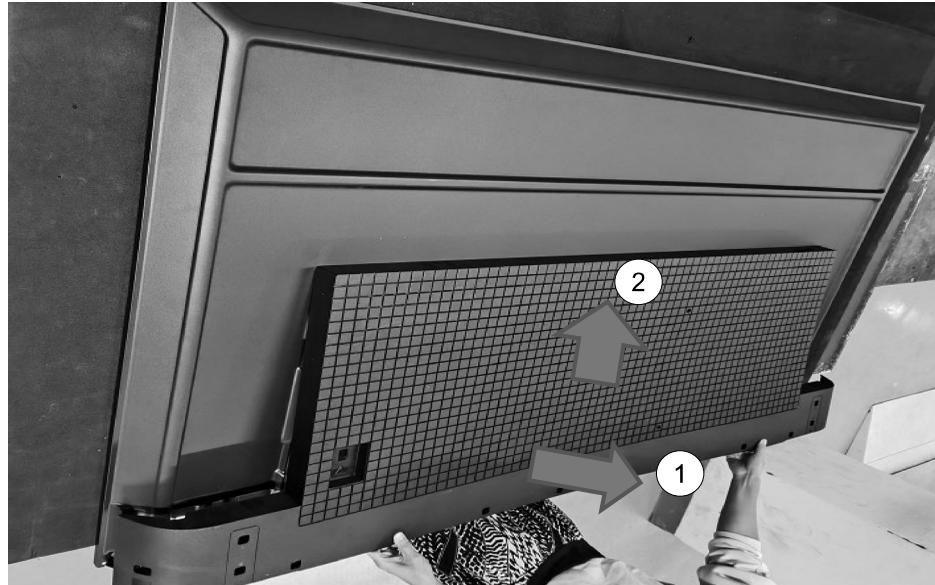
## SECTION 5: DISASSEMBLY AND REMOVAL CAUTION 65"

### REAR COVER

#### 4. Unhook top row.

Total Rear Cover back chassis : 11 hooks

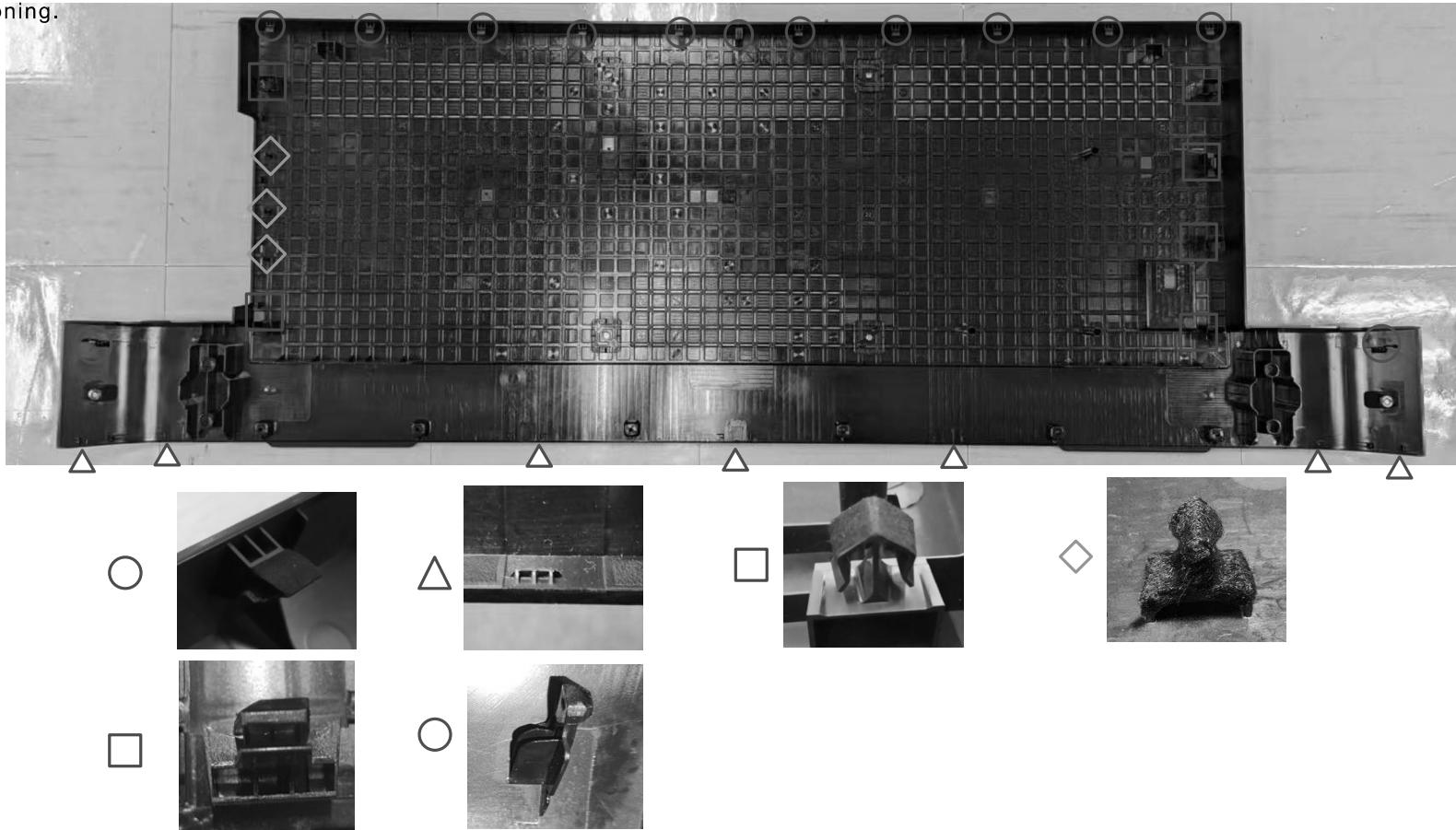
- ① Raise the RC towards back side
- ② Push up the RC towards top side



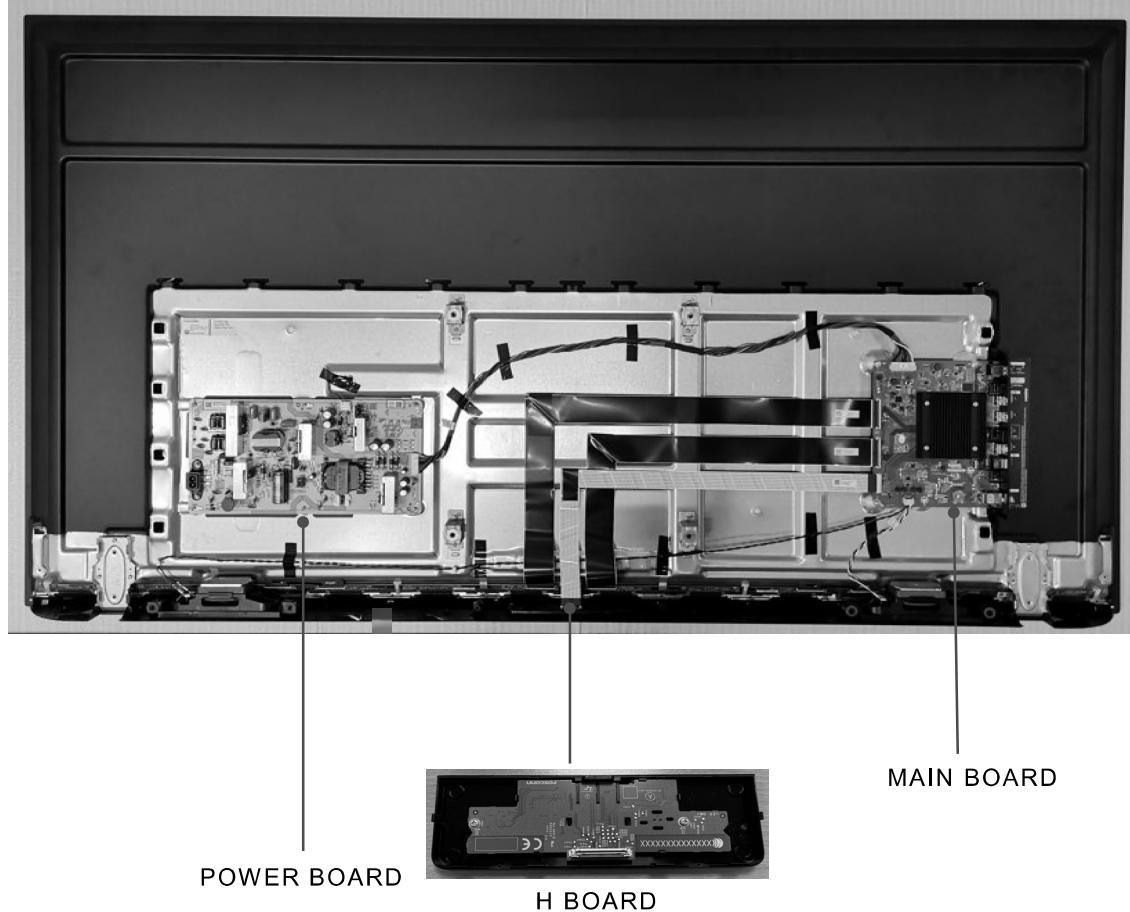
## SECTION 5: DISASSEMBLY AND REMOVAL CAUTION 65"

### REAR COVER

Hook positioning.

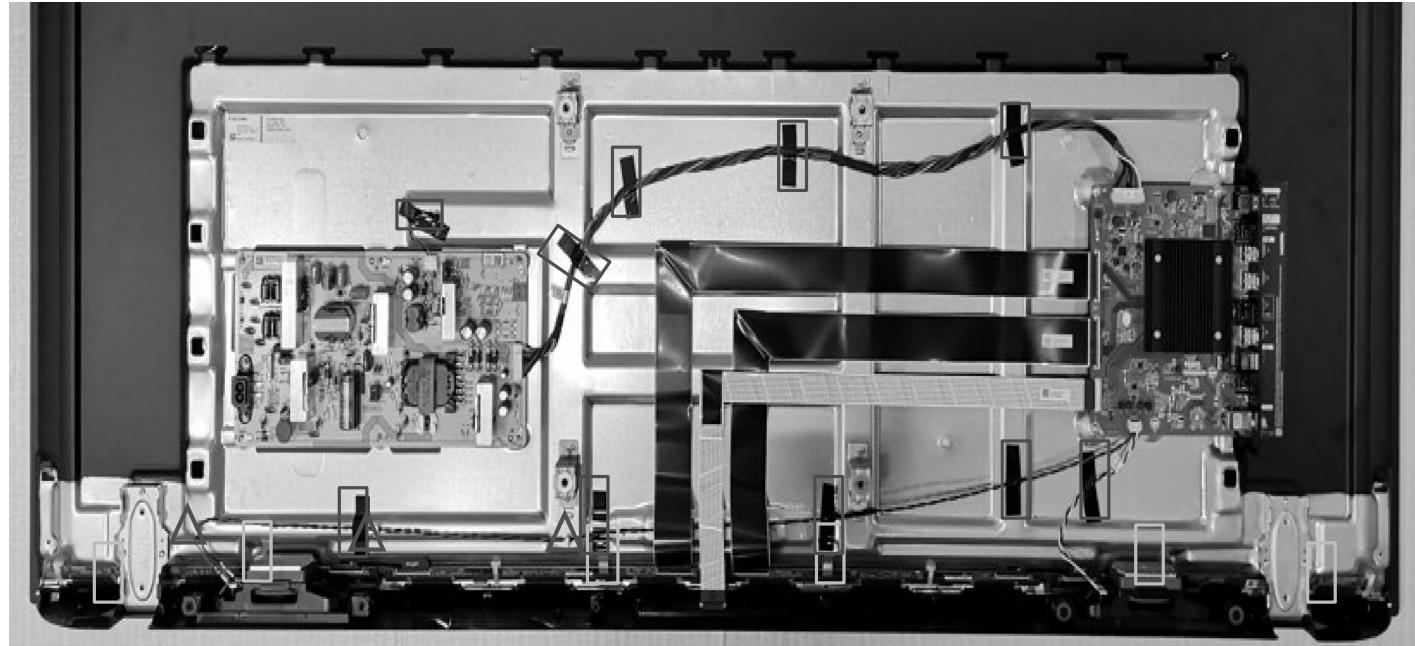


## SECTION 5: BOARD LOCATION 65"



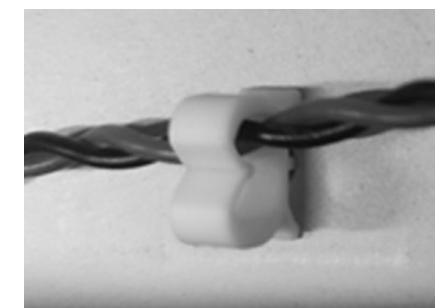
## SECTION 5: WIRE DRESSING 65"

### WIRE DRESSING



- 3M WIRE TAPE BLACK,15\*60MM 10pcs
- EMI TAPE 40\*10MM 6pcs
- △ CABLE LOCKER 3pcs

Put SPK wire into cable locker



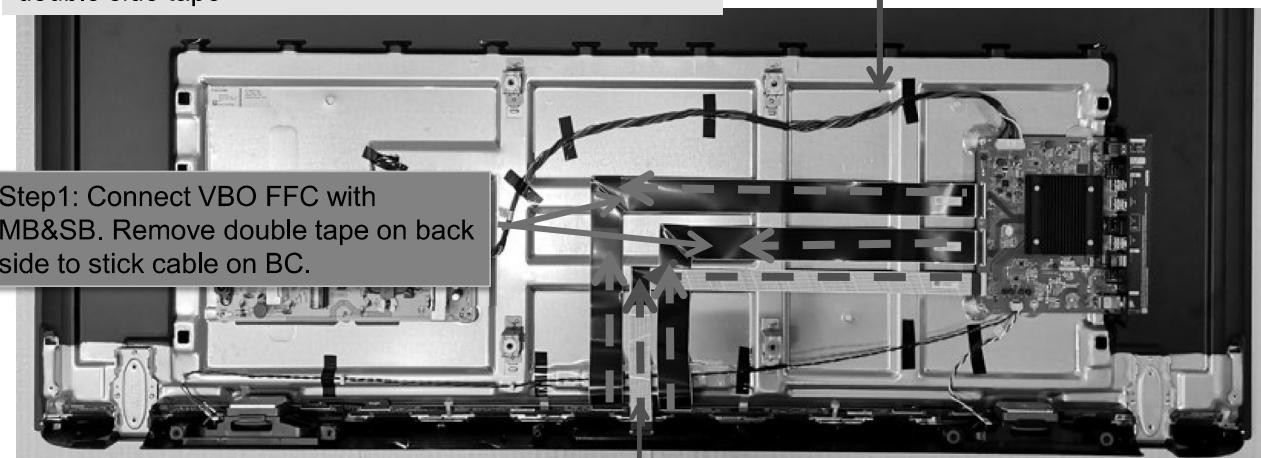
## SECTION 5: WIRE DRESSING 65"

### WIRE DRESSING

\*\*Note: Connect the connector firstly and then stick double side tape

Step1: Connect VBO FFC with MB&SB. Remove double tape on back side to stick cable on BC.

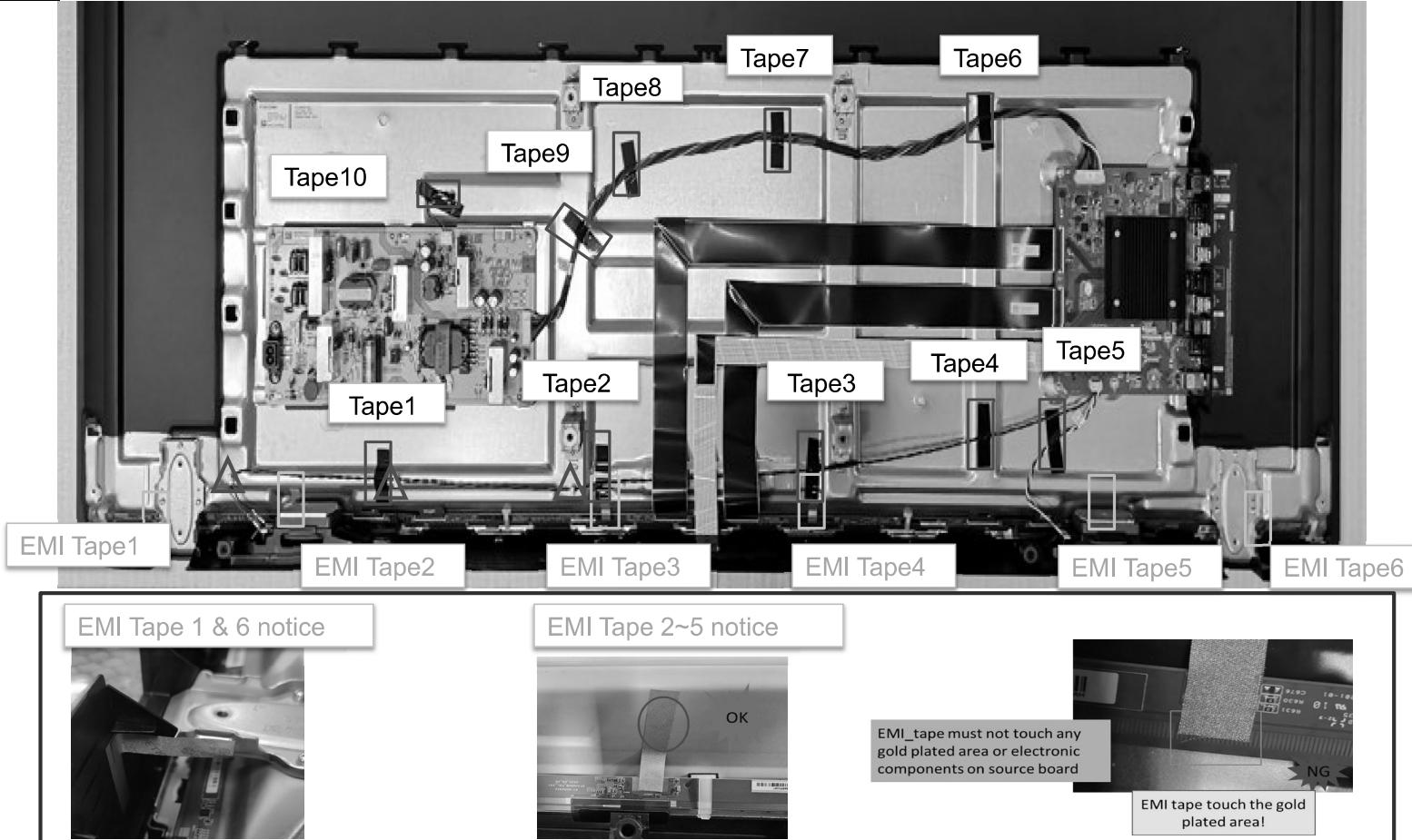
Step3: Connect PSU cable with MB&PSU.



Step2: Connect H-board FFC with MB. Remove double tape on back side to stick cable on BC.

## SECTION 5: WIRE DRESSING 65"

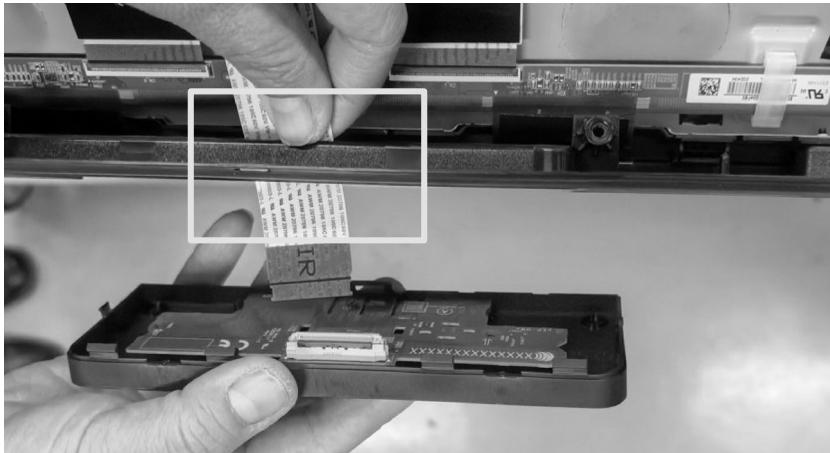
### TAPE



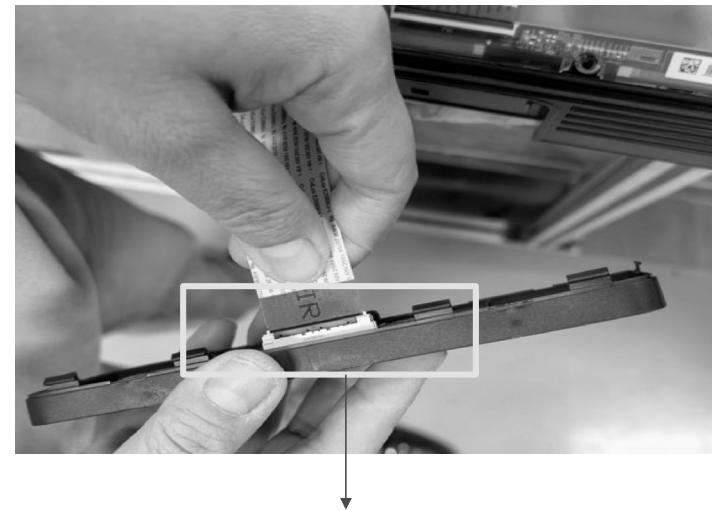
## SECTION 5: WIRE DRESSING 65"

### INFORMATION

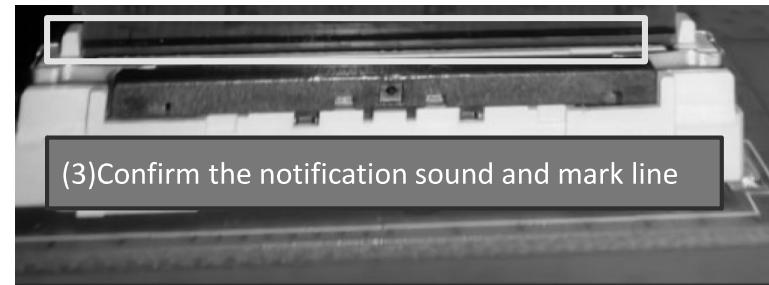
(1)H\_BD FFC passes the bz hole



(2)H\_BD FFC assembled onto H\_BD



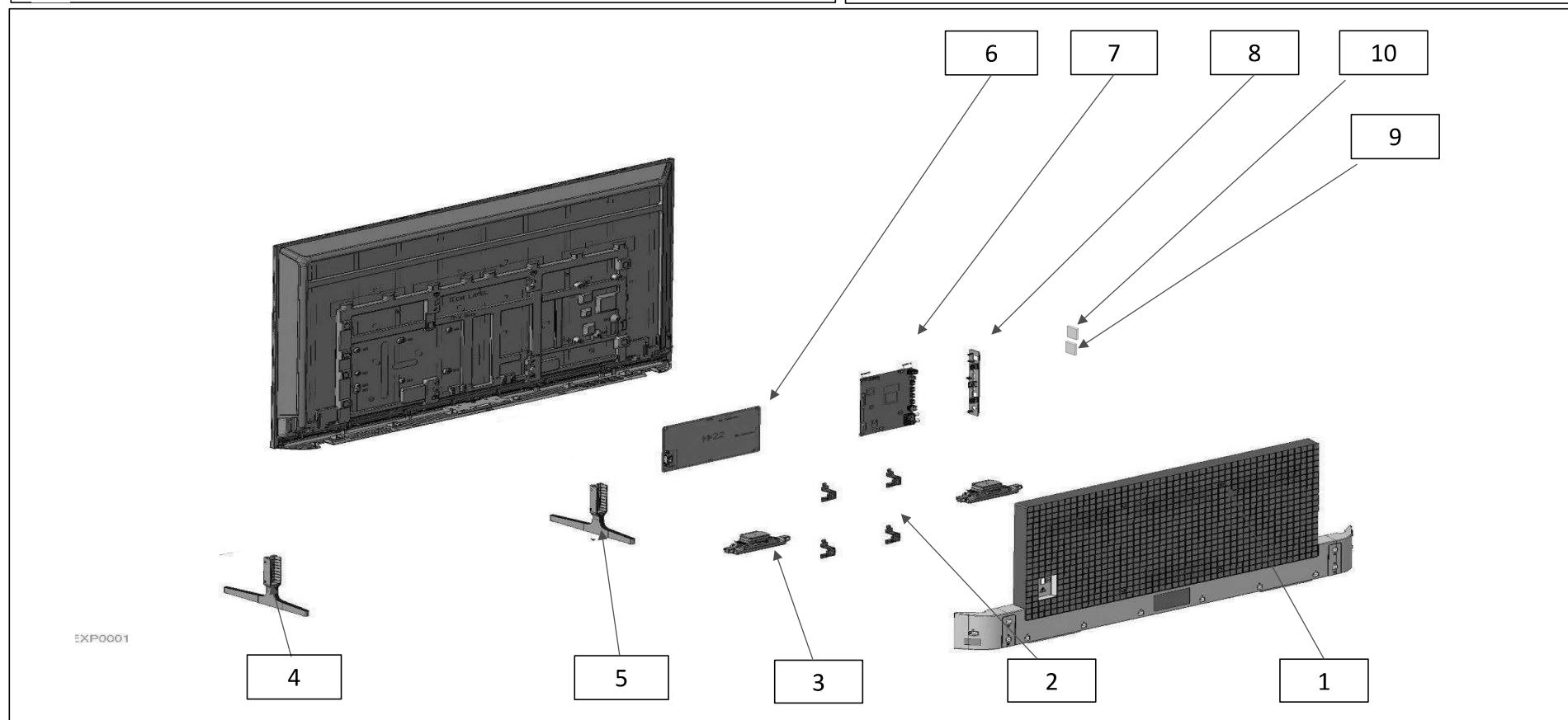
(3)Confirm the notification sound and mark line



## SECTION 4: EXPLODED VIEW AND PART LIST 65"

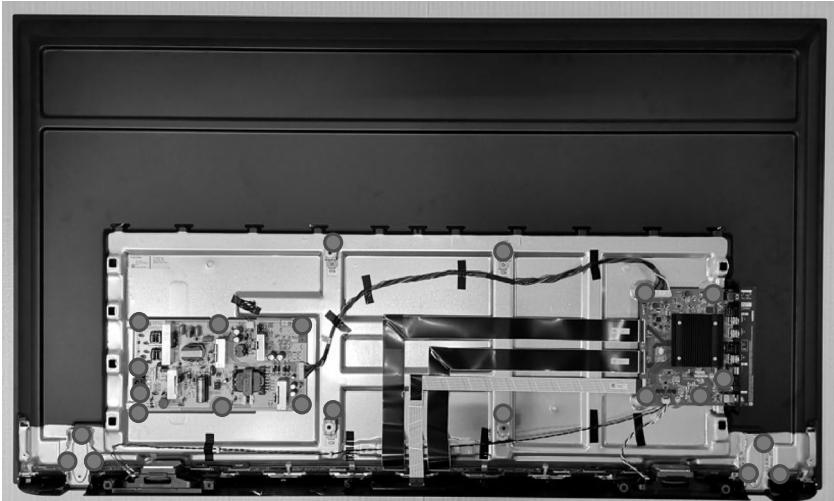
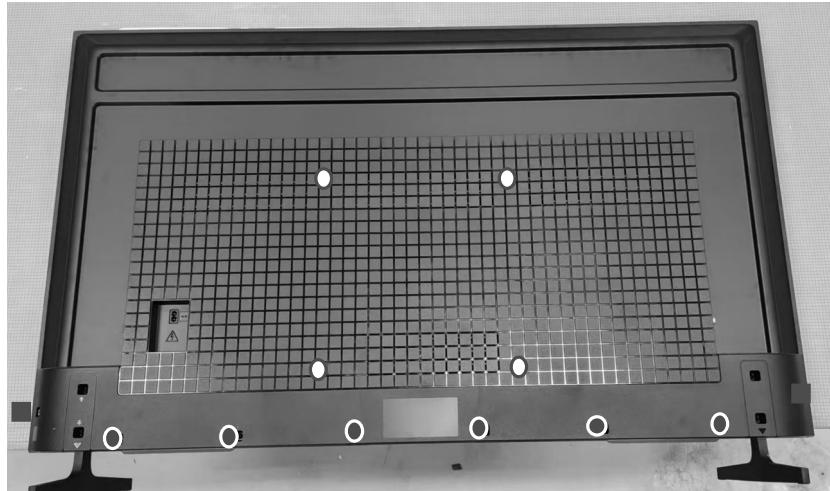
- Place the TV set facing downwards on a stable, level surface before disassembly and assembly of parts.
-  and shaded parts are critical for safety. Replace only with part number specified.
-  Parts contain confidential information. Strictly follow the instruction whenever the components are repaired and/or replaced

- \ (\*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.
- \ Picture provided in this section might have slight difference from the actual sets.
- \ The reference number beside the part indicates the disassembly sequence.
- \ Remove screws before disassembly. Unplug connectors before disassembly

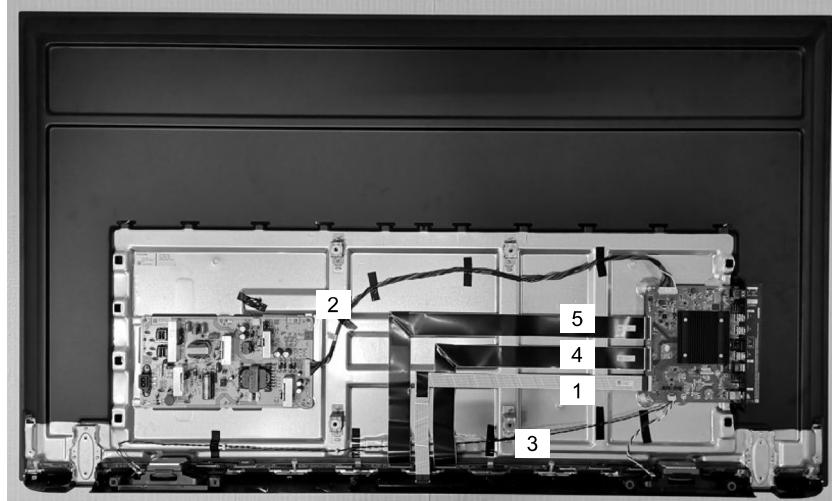


**SECTION 4: EXPLODED VIEW AND PART LIST 65"****SET PART LIST**

REF. NO	PART NO.	DESCRIPTION	K-65S20M2	K-65S20CM2
			UCM	U2
!	1	5-066-803-01 ASSY, REAR COVER (65)	•	•
	2	*5-066-791-01 VESA BKT	•	•
!	3	1-024-588-11 LOUDSPEAKER 12W(55/65/75)	•	•
	4	5-066-805-01 STAND ASSY(R-2) (65)	•	•
	5	5-066-804-01 STAND ASSY(L-1) (65)	•	•
	6	1-024-567-11 POWER SUPPLY 65(FSP209-1FS01)	•	•
!	7	A-5079-534-A MOUNTED PWB(MB) NA Y25 FBC	•	•
	8	5-066-782-01 ASSY, I/O COVER (NA)	•	•
	9	5-068-102-01 THERMAL PAD 27X27	•	•
	10	5-068-103-01 THERMALPAD,16*16*2.4MM,PINK	•	•

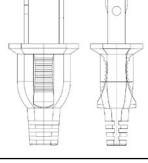
**SECTION 4: EXPLODED VIEW AND PART LIST 65"****SCREW**

REF. NO	PART NO.	DESCRIPTION	QUANTITY	TORQUE (kgf.cm)
○	5-028-335-01	SCREW, M6*12	4	12±0.3
●	2-580-639-01	SCREW, +BVTP 4X12 TYPE2 IT-3	6	9.5±0.3
■	4-729-978-01	SCREW, +PSW M3X8, W8, BLK	2	4.0±0.3
●	2-990-421-41	SCREW (+PSW) (M3X6)	23	4.0±0.3

**SECTION 4: EXPLODED VIEW AND PART LIST 65"****CONNECTOR**

REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-024-555-11	CONNECTOR ASSY 4P (MB-SP)_65	CN802(MB)-SP(1)
2	1-024-554-11	CONNECTOR ASSY 14P (MB-PSU)_65	CN2201(MB)-CN3(PSU-board)(1)
3	1-024-556-11	CONNECTOR ASSY 45P (MB-H BD)65	CN9001(MB)-CN901(H-BD)(1)
4	1-024-578-11	CABLE_FFC_P2P(2) 68P_65	CN6001(MB)-CNX_L1
5	1-024-577-11	CABLE_FFC_P2P(1) 68P_65	CN6002(MB)-CNX_R1

**SECTION 4: EXPLODED VIEW AND PART LIST 65"****OTHER PARTS**

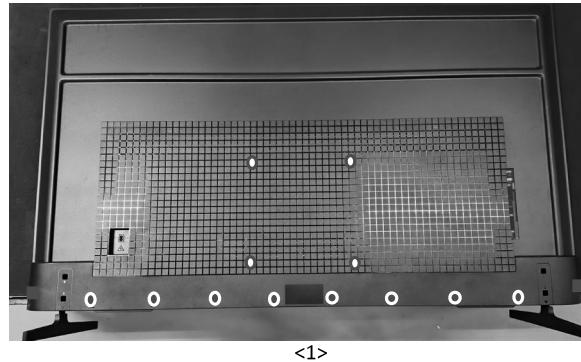
PART NO.		DESCRIPTION	K-65S20M2	K-65S20CM2	REMARKS
	UCM	U2			
	1-012-957-21	C7L AC POWER CORD SETS (US)	•	•	-
-	1-019-559-22	REMOTE CONTROLLER, RMF-TX820U	•	•	-
-	*5-065-334-01	REFERENCE GUIDE	•	•	-
-	*5-065-340-01	SETUP GUIDE	•	•	-

## SECTION 5: DISASSEMBLY AND REMOVAL CAUTION 75"

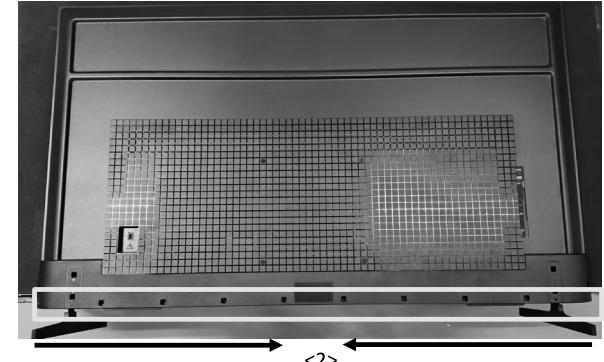
### REAR COVER

1. Remove the screws from the Rear Cover (14 pcs)

2. Unhook the bottom hook, starting from corner.



<1>



<2>

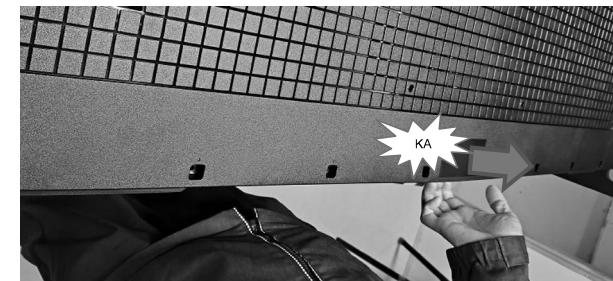
- ① Pull up stand area of RC (show as the picture) and the hook-opening sound can be heard.
- ② Pinch the rear cover edge and pull up, then rear cover hooks will be released.



1



2

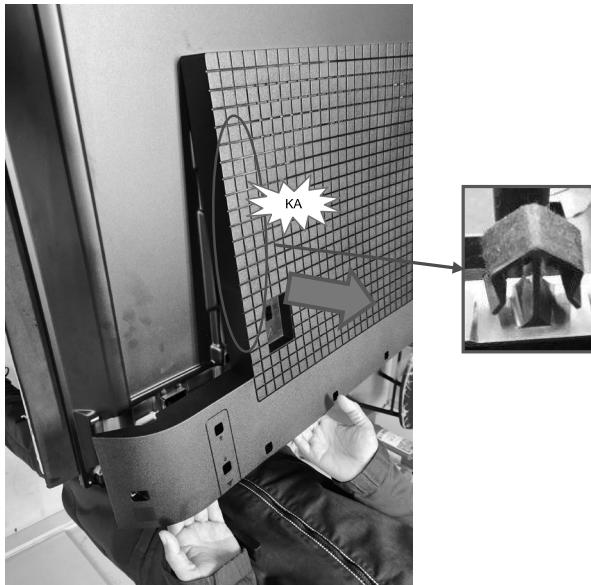


## SECTION 5: DISASSEMBLY AND REMOVAL CAUTION 75"

### REAR COVER

3. Unhook left and right side hooks.

Total Rear Cover back chassis : 9 hooks



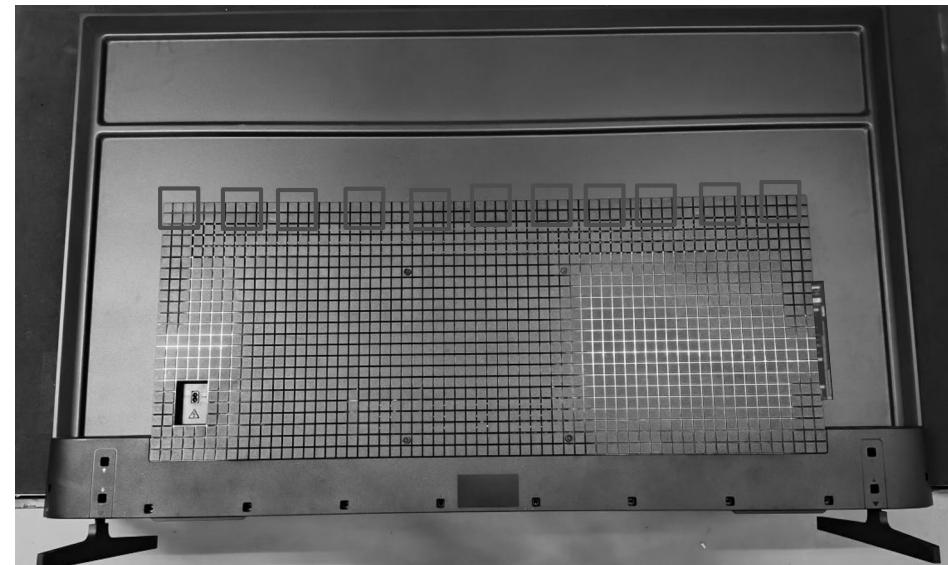
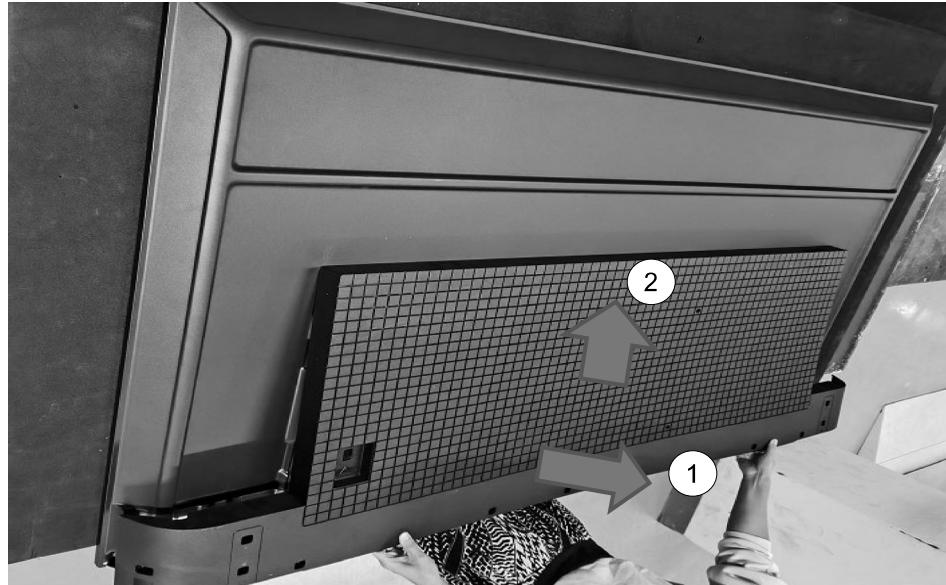
## SECTION 5: DISASSEMBLY AND REMOVAL CAUTION 75"

### REAR COVER

#### 4. Unhook top row.

Total Rear Cover back chassis : 11 hooks

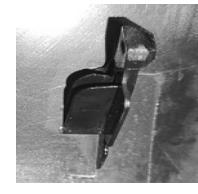
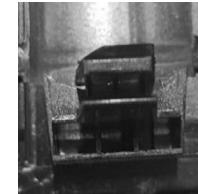
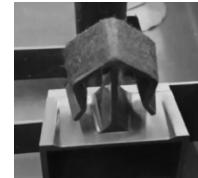
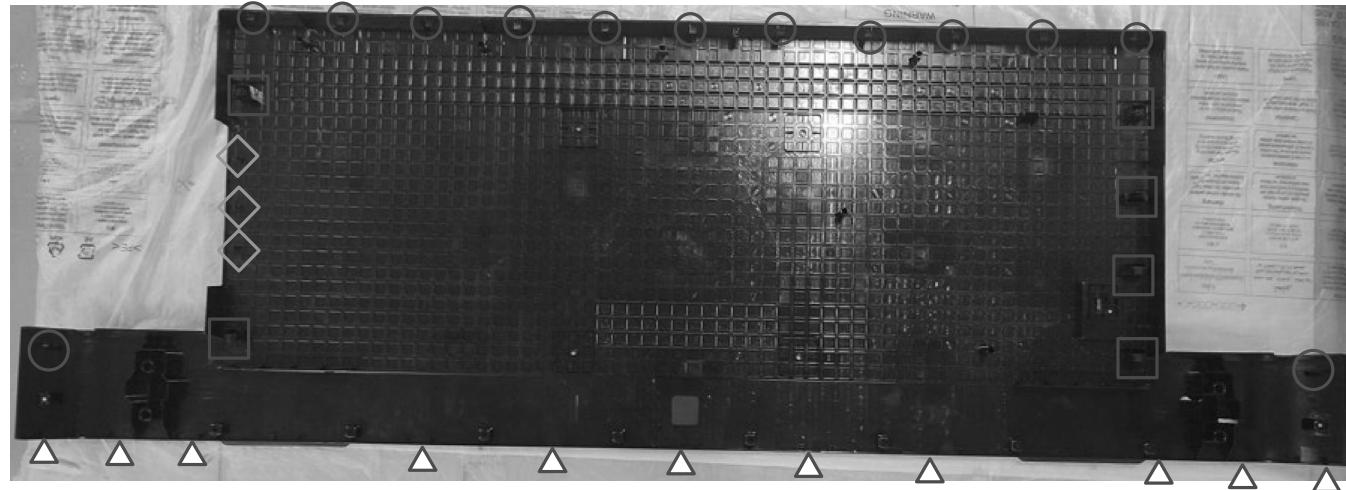
- ① Raise the RC towards back side
- ② Push up the RC towards top side



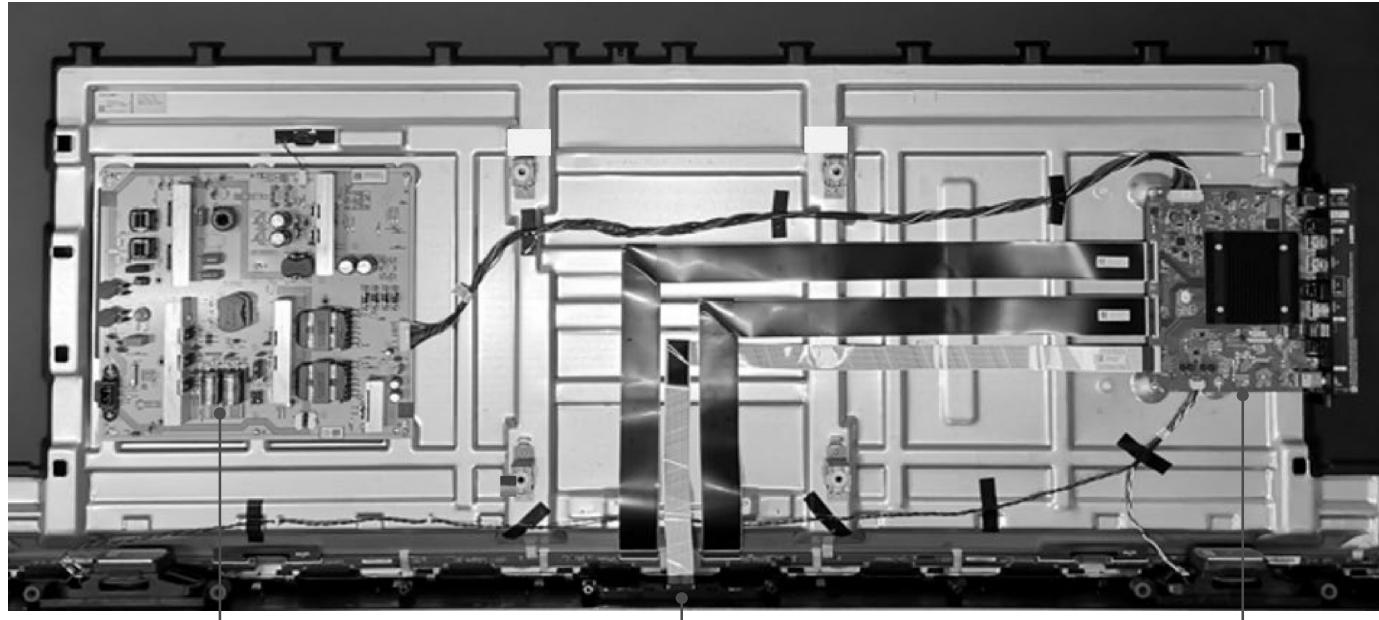
## SECTION 5: DISASSEMBLY AND REMOVAL CAUTION 75"

### REAR COVER

Hook positioning.



## SECTION 5: BOARD LOCATION 75"



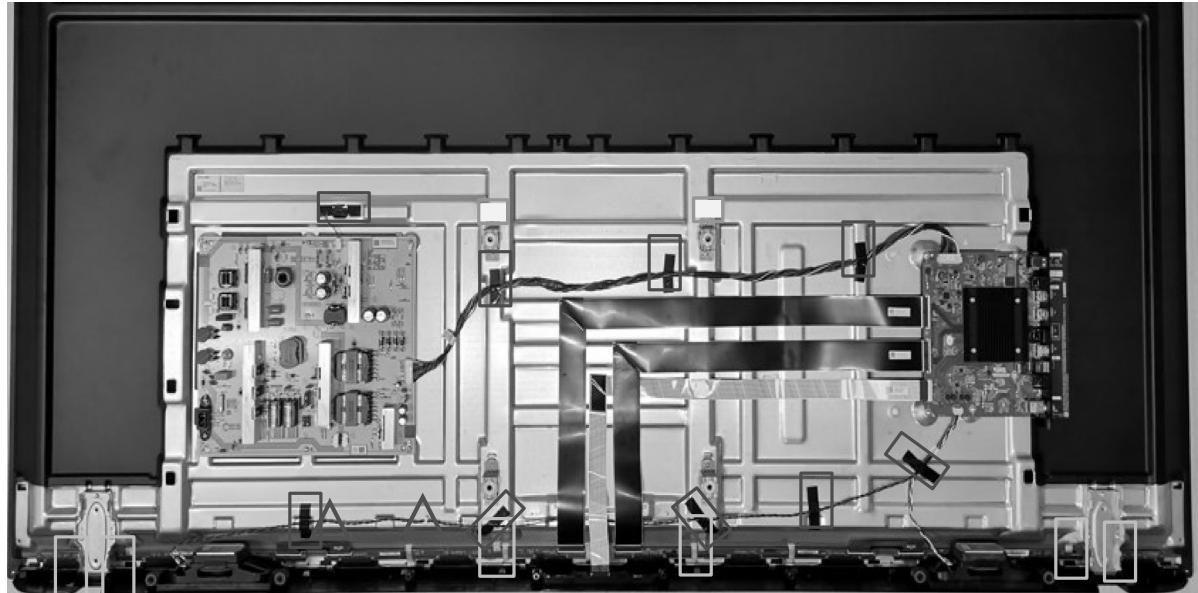
POWER BOARD

MAIN BOARD

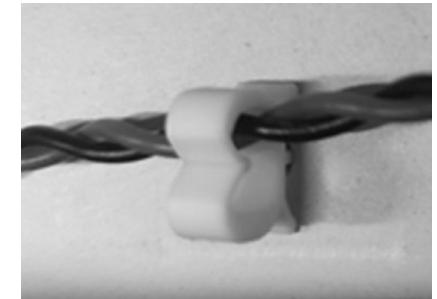
H BOARD

## SECTION 5: WIRE DRESSING 75"

### WIRE DRESSING



Put SPK wire into cable locker



<input type="checkbox"/> HOLE COVER TAPE, SLIVER	2pcs
<input type="checkbox"/> 3M WIRE TAPE BLACK,15*60MM	9pcs
<input type="checkbox"/> EMI TAPE 40*10MM	6pcs
<input type="checkbox"/> CABLE LOCKER	2pcs

## SECTION 5: WIRE DRESSING 75"

### WIRE DRESSING

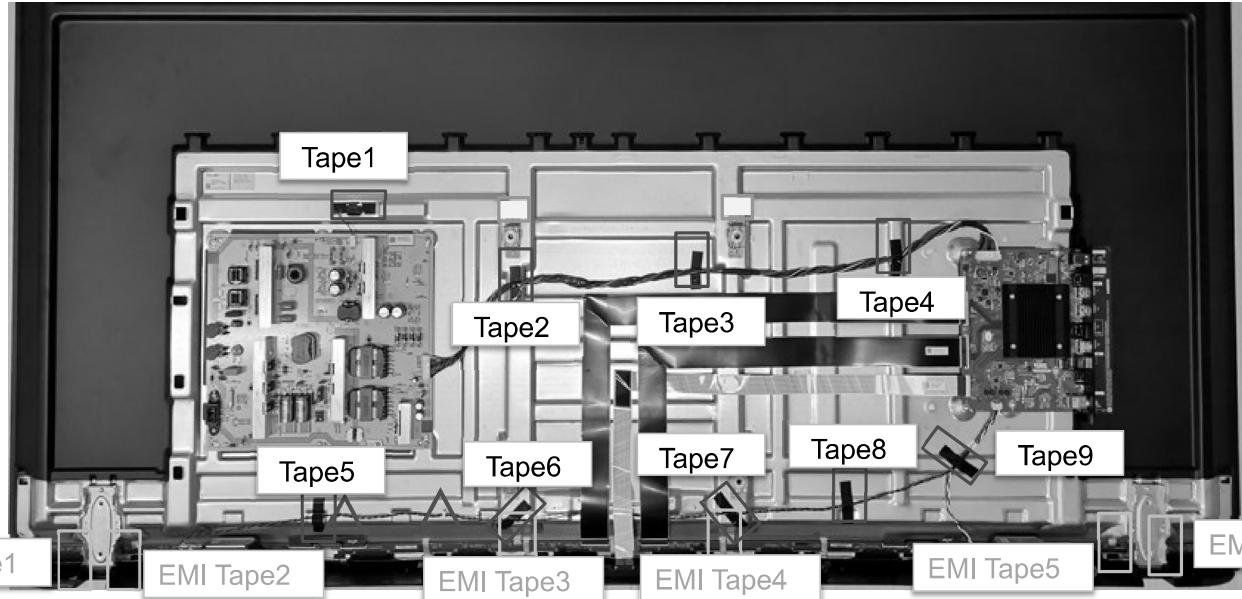
\*\*Note: Connect the connector firstly and then stick double side tape

Step3: Connect PSU cable with MB&PSU.



## SECTION 5: WIRE DRESSING 75"

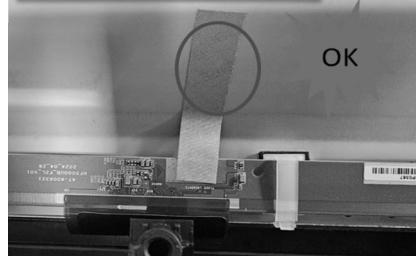
### TAPE



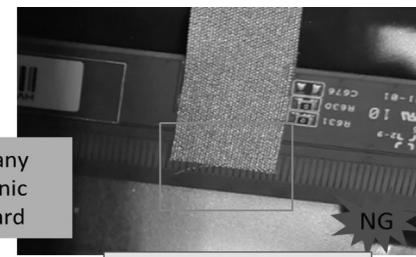
EMI Tape 1 & 6 notice



EMI Tape 2~5 notice



EMI\_tape must not touch any gold plated area or electronic components on source board

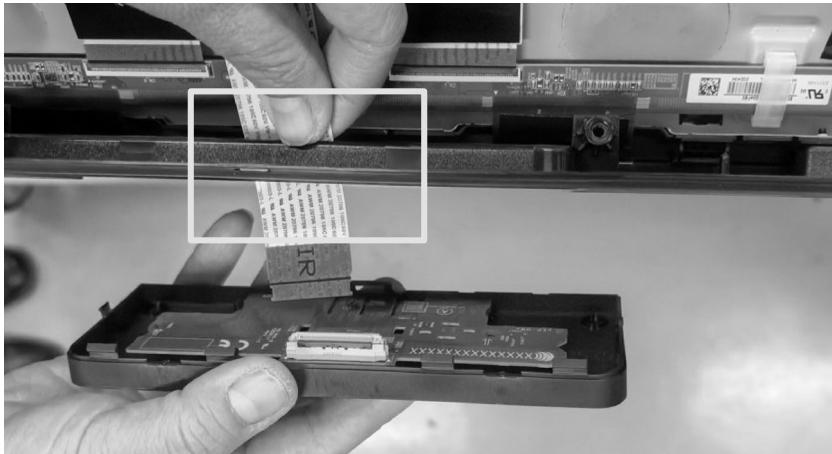


EMI tape touch the gold plated area!

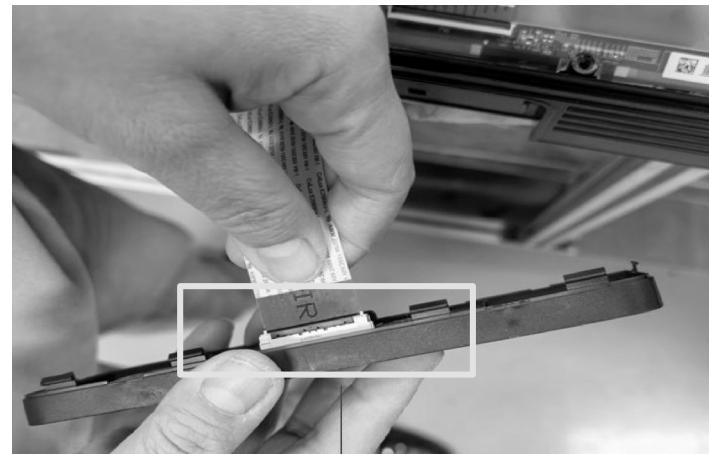
## SECTION 5: WIRE DRESSING 75"

### INFORMATION

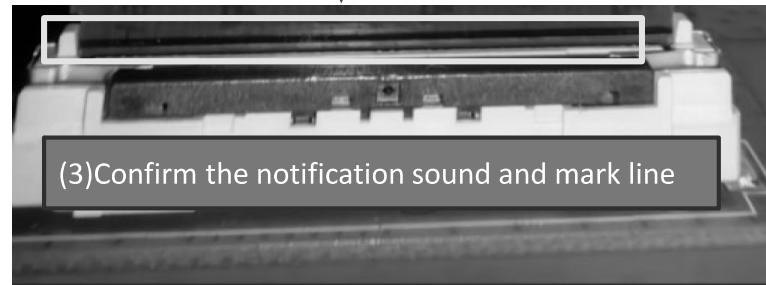
(1)H\_BD FFC passes the bz hole



(2)H\_BD FFC assembled onto H\_BD



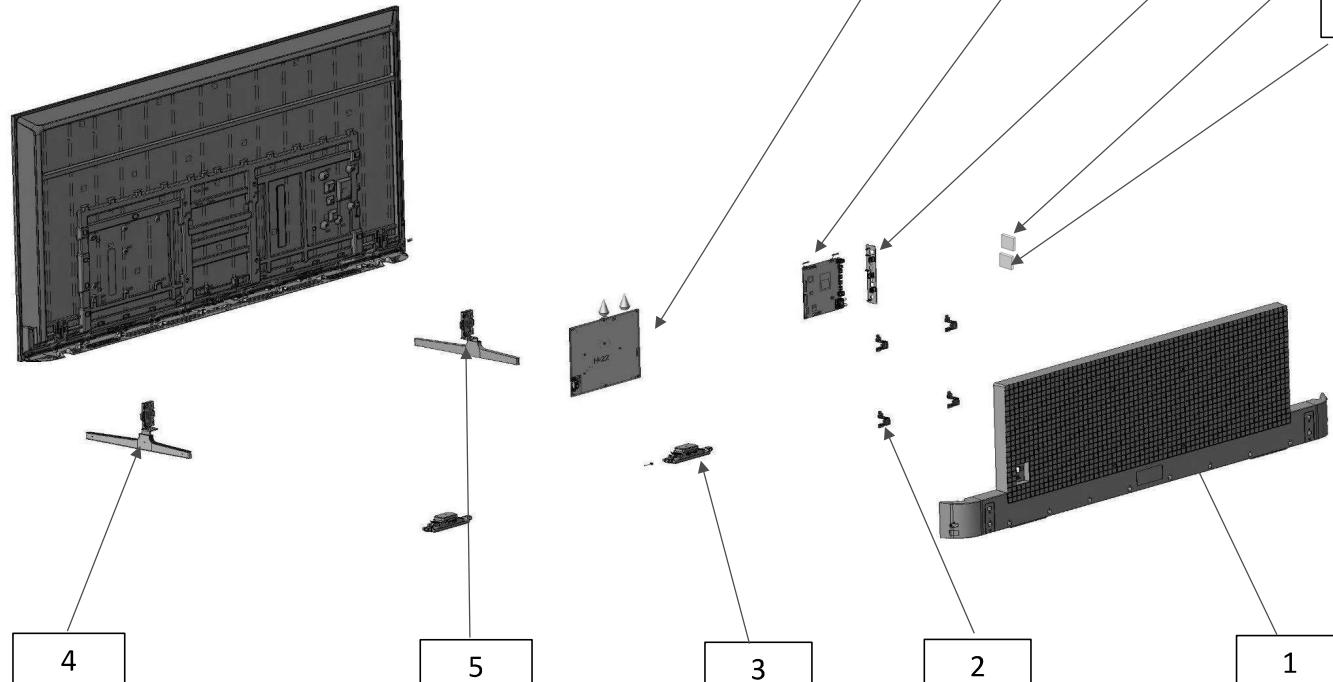
(3)Confirm the notification sound and mark line



## SECTION 5: EXPLODED VIEW AND PART LIST 75"

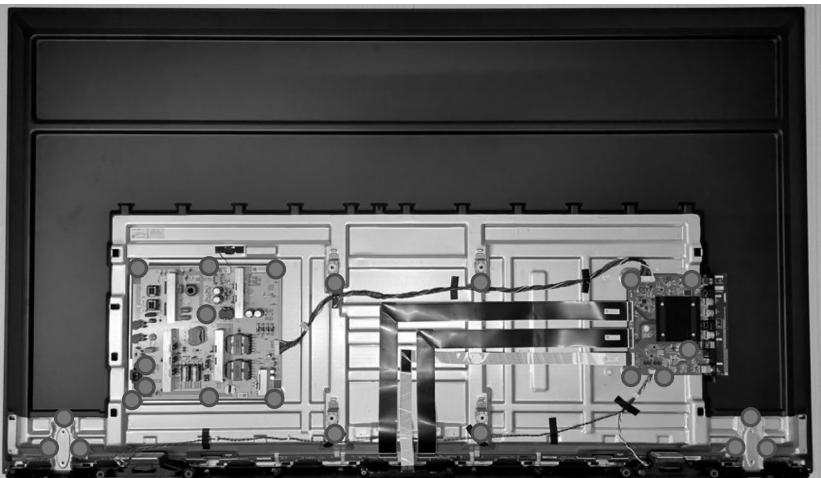
- Place the TV set facing downwards on a stable, level surface before disassembly and assembly of parts.
-  and shaded parts are critical for safety. Replace only with part number specified.
-  Parts contain confidential information. Strictly follow the instruction whenever the components are repaired and/or replaced

- (\*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.
- Picture provided in this section might have slight difference from the actual sets.
- The reference number beside the part indicates the disassembly sequence.
- Remove screws before disassembly. Unplug connectors before disassembly



**SECTION 5: EXPLODED VIEW AND PART LIST 75"****SET PART LIST**

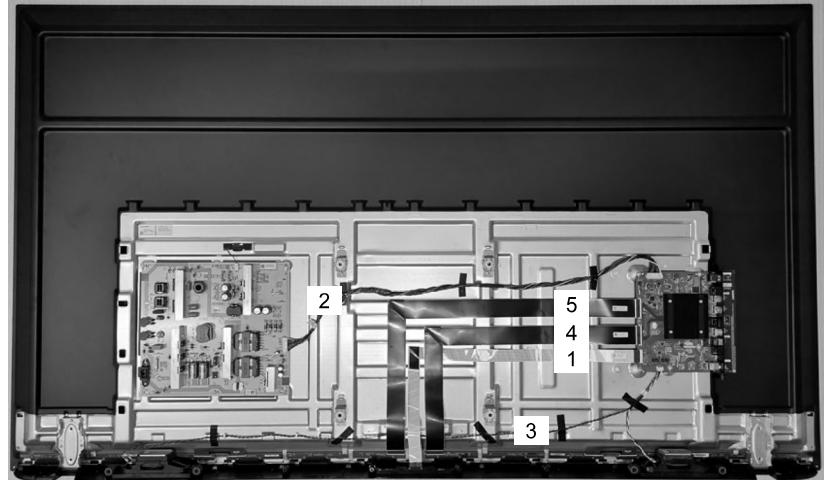
REF. NO	PART NO.	DESCRIPTION	K-75S20M2	K-75S20CM2
			UCM	U2
⚠ 1	5-066-777-01	ASSY, REAR COVER (75)	•	•
2	*5-066-791-01	VESA BKT	•	•
⚠ 3	1-024-588-11	LOUDSPEAKER 12W(55/65/75)	•	•
4	5-066-779-01	STAND ASSY(R-2) (75)	•	•
5	5-066-778-01	STAND ASSY(L-1) (75)	•	•
6	1-024-566-11	POWER SUPPLY 75(FSP232-1FS01)	•	•
🔒 7	A-5079-534-A	MOUNTED PWB(MB) NA Y25 FBC	•	•
8	5-066-782-01	ASSY, I/O COVER (NA)	•	•
9	5-068-102-01	THERMAL PAD 27X27	•	•
10	5-068-103-01	THERMALPAD,16*16*2.4MM,PINK	•	•

**SECTION 5: EXPLODED VIEW AND PART LIST 75"****SCREW**

REF. NO	PART NO.	DESCRIPTION	QUANTITY	TORQUE (kgf.cm)
○	5-028-335-01	SCREW, M6*12	4	12±0.3
●	2-580-639-01	SCREW, +BVTP 4X12 TYPE2 IT-3	8	9.5±0.3
■	4-729-978-01	SCREW, +PSW M3X8, W8, BLK	2	4.0±0.3
●	2-990-421-41	SCREW (+PSW) (M3X6)	24	4.0±0.3

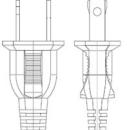
## SECTION 5: EXPLODED VIEW AND PART LIST 75"

### CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-024-553-11	CONNECTOR ASSY 45P (MB-H BD)75	CN802(MB)-SP(1)
2	1-024-551-11	CONNECTOR ASSY 14P (MB-PSU)_75	CN2201(MB)-CN3(PSU-board)(1)
3	1-024-552-11	CONNECTOR ASSY 4P (MB-SP)_75	CN9001(MB)-CN901(H-BD)(1)
4	1-024-576-11	CABLE_FFC_P2P(2) 68P_75	CN6001(MB)-CNX_L1
5	1-024-575-11	CABLE_FFC_P2P(1) 68P_75	CN6002(MB)-CNX_R1

**SECTION 5: EXPLODED VIEW AND PART LIST 75"****OTHER PARTS**

PART NO.		DESCRIPTION	K-75S20M2	K-75S20CM2	REMARKS
UCM	U2				
		1-012-957-21 C7L AC POWER CORD SETS (US)	•	•	-
-		1-019-559-22 REMOTE CONTROLLER, RMF-TX820U	•	•	-
-		*5-065-334-01 REFERENCE GUIDE	•	•	-
-		*5-065-340-01 SETUP GUIDE	•	•	-

## SMART CORE: DISASSEMBLY AND REMOVAL CAUTION

### DISASSEMBLE SMART CORE

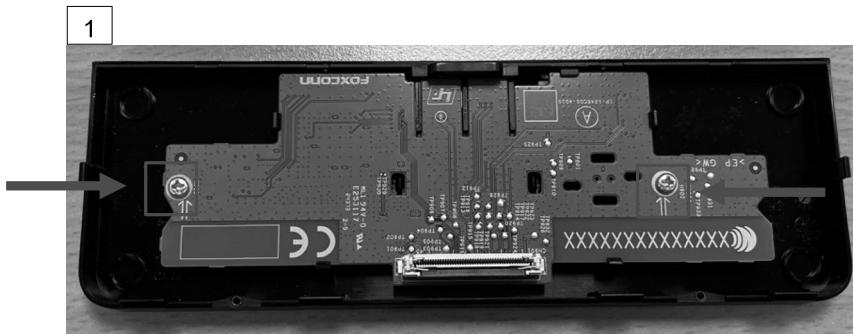
1. Push black bar of connector to remove the FFC from H-board.
2. Push hooks of ornament panel (OP).
3. Push OP downward to take it out.



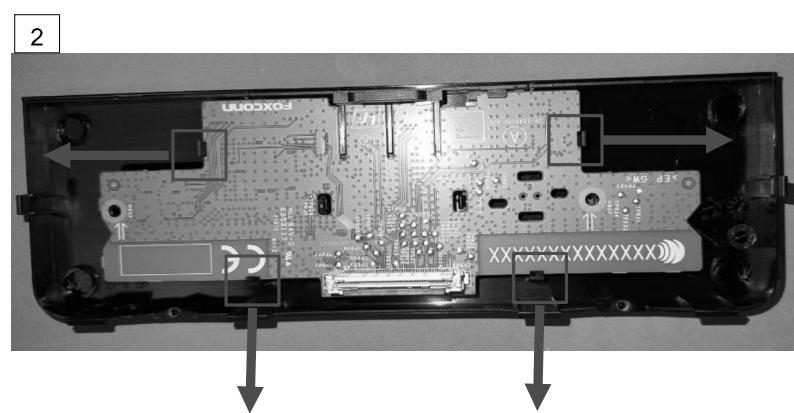
## SMART CORE: DISASSEMBLY AND REMOVAL CAUTION

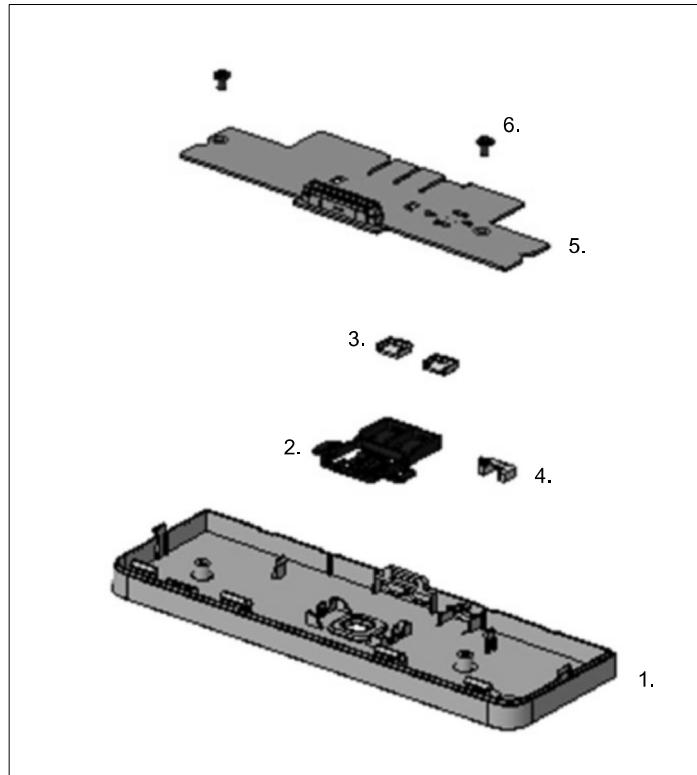
### DISASSEMBLE RECEIVER BOARD

1. Remove 2pcs screw.



2. Push hooks follow arrow direction and disassembly H-board.



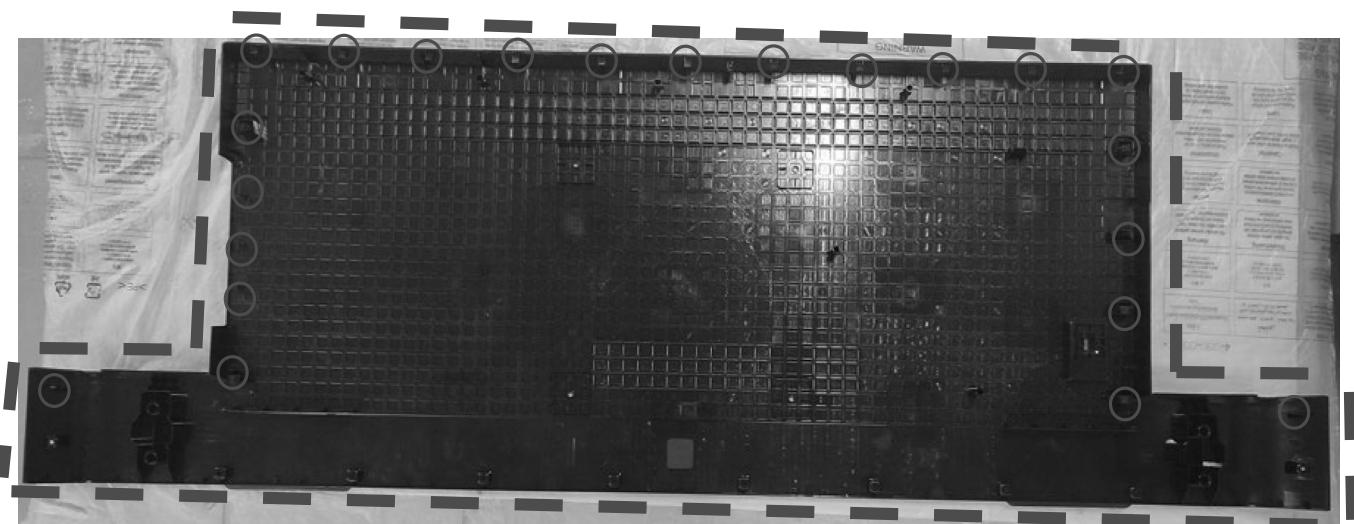
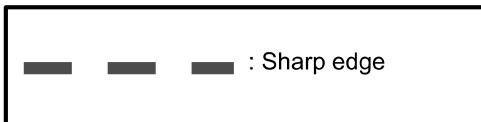
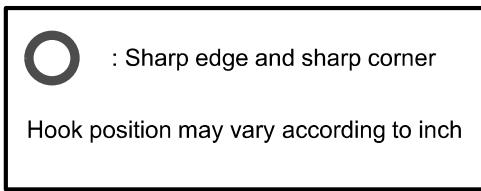
**SMART CORE: EXPLODED VIEW AND PART LIST**

REF. NO.	PART NO.	DESCRIPTION	REMARKS
1	5-066-787-01	ASSY, OP COVER W/O MIC	-
2	5-066-786-01	ASSY, KEY COVER	-
3	5-066-784-01	LIGHT GUIDE	2pcs
4	5-066-785-01	LIGHT SENSOR GUIDE	-
5	1-024-574-11	MOUNTED PWB(H BD) FBC	-
6	5-067-566-01	SCREW,+BTP T2.6*L5	2pcs

## APPENDIX: SHARP EDGE

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- Please wear gloves when removing rear cover to avoid sharp edge at bottom side and hook area as shown in the next figure.



## APPENDIX

## FFC REPLACEMENT CAUTIONS

### WITHDRAWAL OF 45P FFC CONNECTOR -1 (MB side)

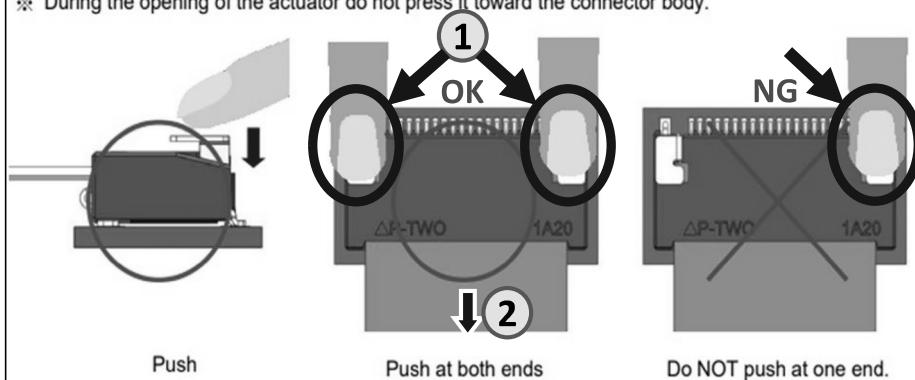
#### Step 1 – Lock release :

Push the side-release lock buttons inward (Push at both end) (highlighted in blue).

#### FPC/FFC removal (Lock release)

While holding down the top of the release lever, the FPC/FFC pull out.

- ※ Do not operate the actuator from one end only.
- ※ Do not attempt to open it past this angle or grasp it.
- ※ During the opening of the actuator do not press it toward the connector body.

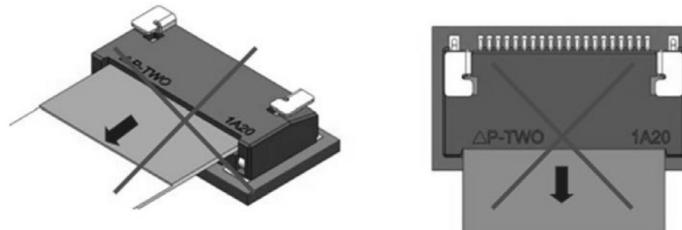


#### Step 2 – Pull-out FFC :

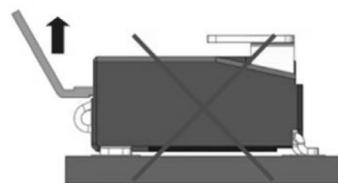
Pull-out FFC in straight direction while pushing side-release lock buttons at the same time.

#### Caution

- ※ Do not removal FFC/FPC when Lock is closed.



- ※ Application of excessive force to the inserted FPC/FFC may cause damage to connector and may affect the reliability of electrical connection.  
If specific application requires continuous or repeated pull or bend of the inserted FPC/FFC, assure that the forces are NOT transmitted directly to the connector.



## APPENDIX

## FFC REPLACEMENT CAUTIONS

## WITHDRAWAL OF 45P FFC CONNECTOR -2 (H-board side)

## Initial condition

## Insert &amp; Remove Operation

This manual outlines how to correctly insert and remove FPC/FFC from EasyLock VT connectors, as well as precautions for proper handling of the product.

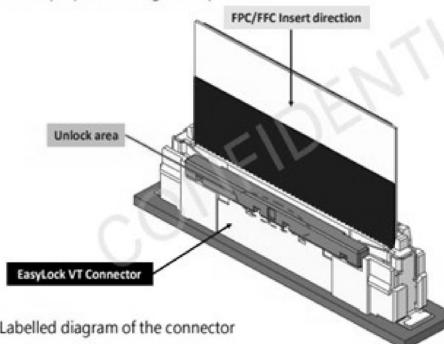


Fig.1 Labelled diagram of the connector

## Step 1 – Find the unlock area

## Step 2 – Lock release :

Push the unlock area inward,  
And support the opposite side  
of the connector (Push at both  
side)  
(highlighted in blue).

## Step 3 – Pull-out FFC :

Pull-out FFC in straight  
direction while pushing the  
unlock area at the same time.

## Remove Operation

When pressing the unlock area, please support the opposite side of the connector, and pull out the FPC/FFC vertically.

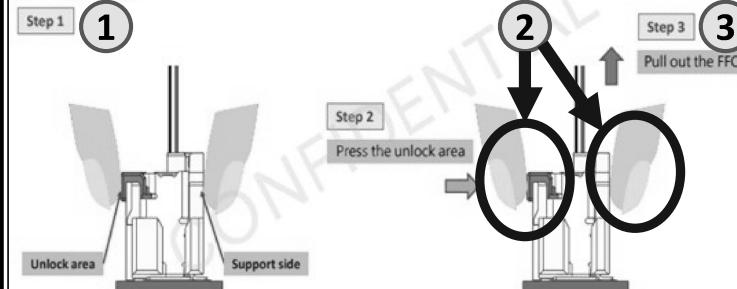


Fig.3-1 FPC/FFC removal method

## Caution

## Remove Operation

Please use two fingers to press the unlock area and opposite the support connector, and then pull out the FPC/FFC . (Figure 3-2)  
There is possibility that connector peel off if push the button without support. (Figure 3-3)

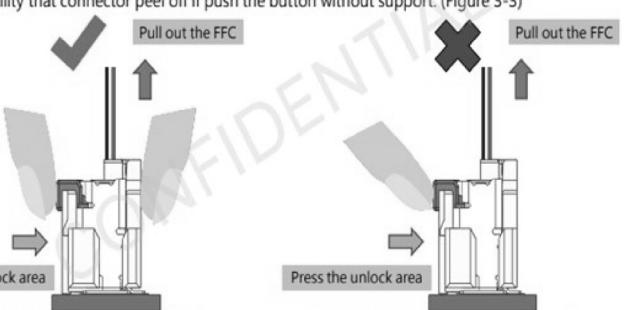


Fig.3-2 FPC/FFC removal method

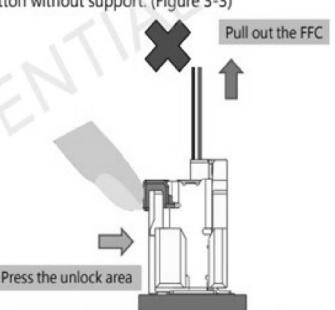


Fig.3-3 FPC/FFC removal – Bad example

## Remove Operation

Press the middle of the unlock area and pull out the FPC/FFC vertically. (Figure 3-4)  
Do not press the unlocking area from one end only, it will cause incomplete unlock or FPC/FFC damage. (Figure 3-5)

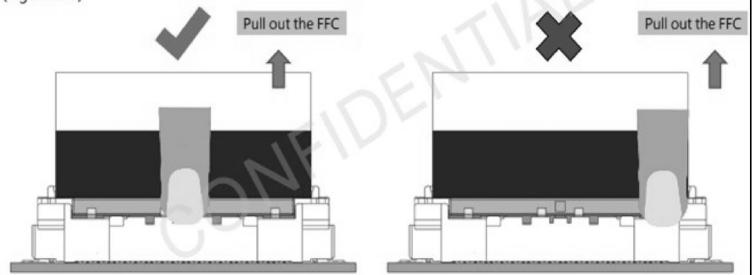


Fig.3-4 FPC/FFC removal method

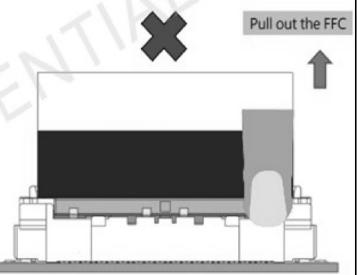


Fig.3-5 FPC/FFC removal – Bad example

## APPENDIX

## FFC REPLACEMENT CAUTIONS

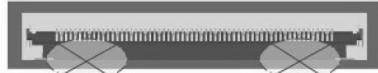
### WITHDRAWAL OF 68P FFC CONNECTOR

#### Step 1

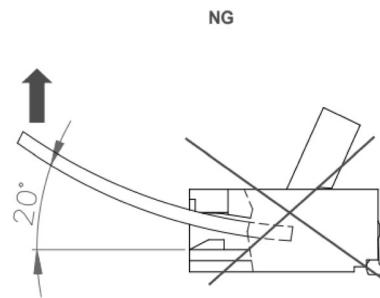
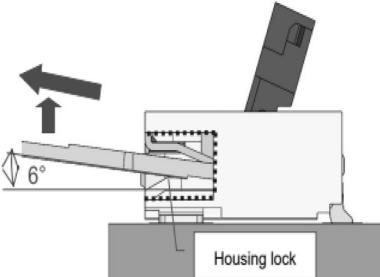
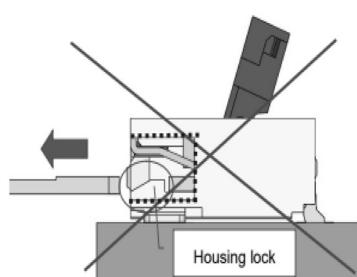
OK



NG



#### Step 2



When the FFC taking out, it needs to be lifted up past the housing lock

When taking out the FFC, the angle should not be greater than 20°

1

Open and flip actuator.  
Please operate in the center of the cover, and do not  
operate on both sides

2

Pull-out FFC in straight direction.  
When the FFC taking out, it needs to be lifts up past  
the housing lock.

Note: FFC as in image is only for reference purpose.  
Actual FFC outlook may vary by each vendor.

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9-888-935-U1

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