

# ***SERVICE MANUAL (TROUBLESHOOTING)***

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The manual is intended for a trained professional and the use of the manual is at your own risk.

9-888-906-21

**OLED TV**

**SONY®**

Sony EMCS (Malaysia) Sdn. Bhd. HES-M  
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## MODEL LISTS

THIS SERVICE MANUAL CONTAINS **TROUBLESHOOTING** INFORMATION FOR BELOW REGIONS AND MODELS:

**Self Diagnosis**  
Supported model

### MODEL

XR-55A75L	XR-65A75L	-	-
XR-55A80K	XR-65A80K	XR-77A80K	-
XR-55A80L	XR-65A80L	XR-77A80L	XR-83A80L
XR-55A80CK	XR-65A80CK	XR-77A80CK	-
XR-55A80CL	XR-65A80CL	XR-77A80CL	XR-83A80CL

## TABLE OF CONTENTS

Title	Page
SAFETY NOTES	4
SELF DIAGNOSIS FUNCTION	12
TROUBLESHOOTING	15
SOFTWARE UPDATE & RESET	143
DIAGRAMS	146
HANDLING GUIDE	155


**Please refer Service Manual (Disassembly) for below information:**

- Tools and Equipments
- FFC Precautions
- Disassembly and Removal Caution
- Wire Dressing
- Circuit Board Location
- Exploded Views and Part Lists
- Smart Core
- Appendix - Sharp Edge  
- FFC Replacement Cautions

Note: Pictures provided in this manual may have difference from actual sets

## 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 for OLED Panel.

#### 1) Handling.

- When repairing the TV set, be sure you are grounded by using a wrist band.
- \*Do not press on the panel or frame edge to avoid the risk of electric shock.
  - \*Do not scratch or press on the panel with any sharp objects.
  - \*Do not leave the module in high temperatures or in areas of high humidity for an extended period.
  - \*Do not expose the panel to direct sunlight.
  - \*Avoid contact with water. It may cause a short circuit within the module.
  - \*Disconnect the AC power when replacing.
  - \*Always clean the panel with a soft cloth material.
  - \*Use care when handling the wires or connectors. Damaging the wires may cause a short.
  - \*Protect the panel from ESD to avoid damaging the electronic circuit.
  - \*It is not recommended to POWER ON when the panel is laid facing down during repair activity. Refer Figure 1 (Next page)

## SAFETY NOTES

\*When transporting by hand, do not put pressure on the panel and the frame around the screen.

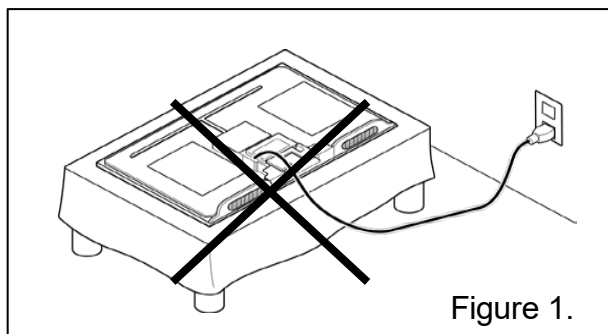


Figure 1.

Refer to the panel handling chapter of each Service manual, or the "Transporting" information of the Reference Guide of each model on how to hold it.

### 2) OLED Screen.

- Although the OLED screen is made with high-precision technology and 99.99% or more of the pixels are effective, black dots may appear or bright points of light (white, red, blue, or green) may appear constantly on the OLED screen. This is a structural property of the OLED screen and is not a malfunction.
- Do not push or scratch the front filter or place objects on top of this TV set. The image may be uneven, or the OLED screen may be damaged.

- The screen and cabinet get warm when this TV set is in use. This is not a malfunction.

### 3) Precautions to Protect the Screen from Damage.

#### Image retention.

OLED TVs are susceptible to image retention (burn-in) due to the characteristics of the materials used. Image retention may occur if images are displayed in the same location on the screen repeatedly or over extended periods of time. This is not a malfunction of the TV. Avoid displaying images that may cause image retention.

#### The following are examples of images that may cause image retention:

- Content with black bars either on the top and bottom and/or the left and right sides of the screen. (for example, Letterboxed, 4:3 screen, Standard definition).
- Static images such as photos.
- Video games that might have static content in some part of the screen.
- On-screen menus, program guides, channel logos etc.
- Static content from applications.
- On-screen tickers, such as those used for news and headlines.

## SAFETY NOTES

### To reduce the risk of image retention:

- Fill the screen by changing [Wide mode] to eliminate the black bars. Select [Wide mode] other than [Normal].
- Turn off the OSD (On Screen Display) by pressing the DISPLAY button and turn off the menus from connected equipment. For details, refer to the instruction manuals for the connected equipment.
- Avoid displaying static images with bright colours (including white), clocks or logos on any portion of the screen.
- Set the picture settings based on the ambient conditions. The Standard Picture is recommended for home use and when viewing content that often displays the station logos, etc. The TV has following features to help reduce/prevent image retention. Press the HOME button, then select [Settings] – [Picture & Display] – [Expert panel settings] – the desired option.

### Panel refresh

Panel refresh will automatically run to adjust the uniformity of the TV screen after it has been in use for long periods. Panel refresh can also be performed manually and should only be used if image retention is very noticeable, or you see the following message: [Panel refresh did not finish...]

### Caution:

- The Panel refresh function may affect the panel. As a reference, perform the Panel refresh only once a year, do not perform it more than once a year as it may affect the usable life of the panel.
- Panel refresh takes about one hour to complete.
- A white line may be displayed on the screen during the Panel refresh, this is not a malfunction of the TV.
- Panel refresh will only work when the room temperature is between 10-40°C.

### Pixel shift.

Automatically moves the image on the screen to prevent image retention.

### Another feature.

The screen brightness is automatically reduced when displaying still images, clocks, bright colors or logos etc.

## SAFETY NOTES

### 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)

※ Things to prepare in advance.

ESD wrist-strap.



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

① Hold the board with both hands



② Do not hold/push Heat-Sink



## SAFETY NOTES

③ Handle with care. Do not swing



④ Regardless of Good board or Defective board, always put it on ESD cushion / sheet slowly.



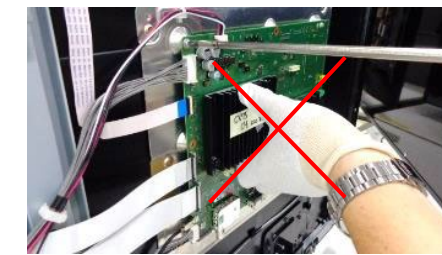
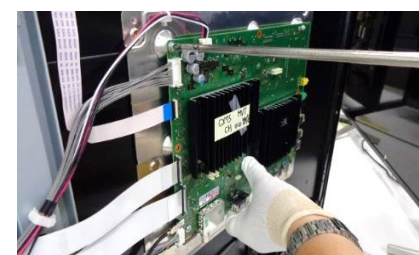
⑤ Do not stack up



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



⑦ After take defective board out from TV, put it into ESD bag. Do not place on floor mat/carpet direct and always put it on ESD cushion

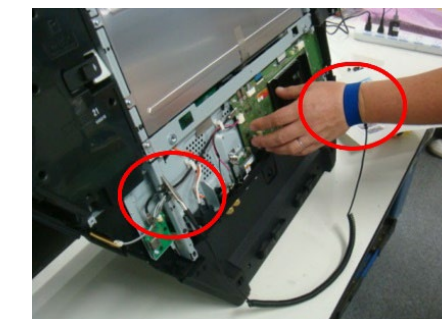


2) Caution for Board handling (ESD). Be sure to observe the following contents

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



② Use ESD wrist-strap

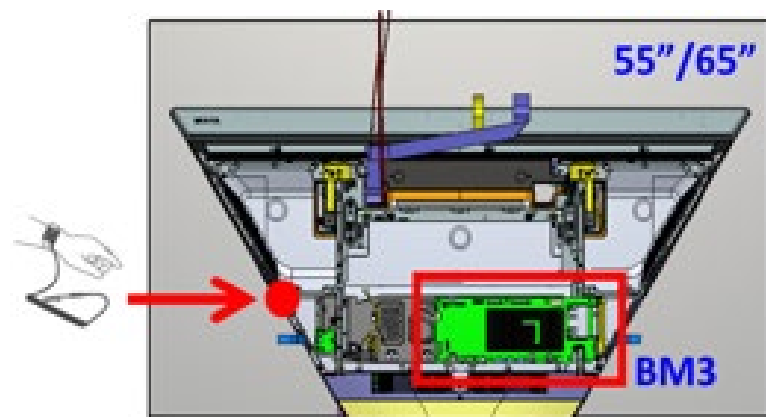




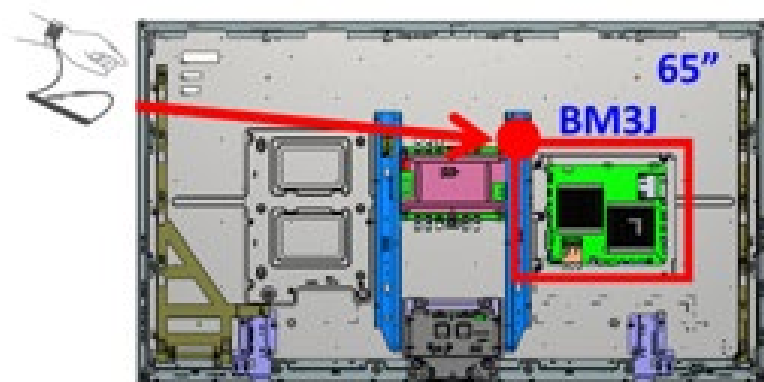
## SAFETY NOTES

※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.



<K\*-65Z9F>

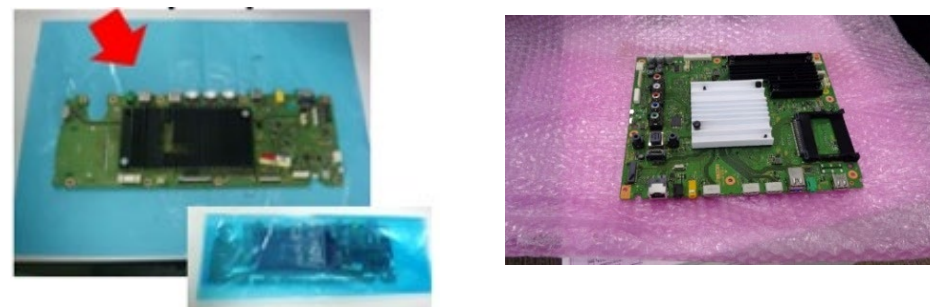


※Caution : ESD wrist-strap to be checked daily.  
Use Multi-meter to make sure resistance of ESD wrist-strap is OK.  
(R=750K Ohms to 35Mega Ohms)

③ When holding board, do not hit or touch to Plastic part(s)



④ After take defective board out from TV, put it into ESD bag.  
Do not place on floor mat/carpet direct. And, always put it on ESD cushion



### 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 their 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 voltmeter (FLUKE 8921A etc \*1).

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

# Leakage current of measurement instrument is less than 10µArms 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 350uA peak).

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

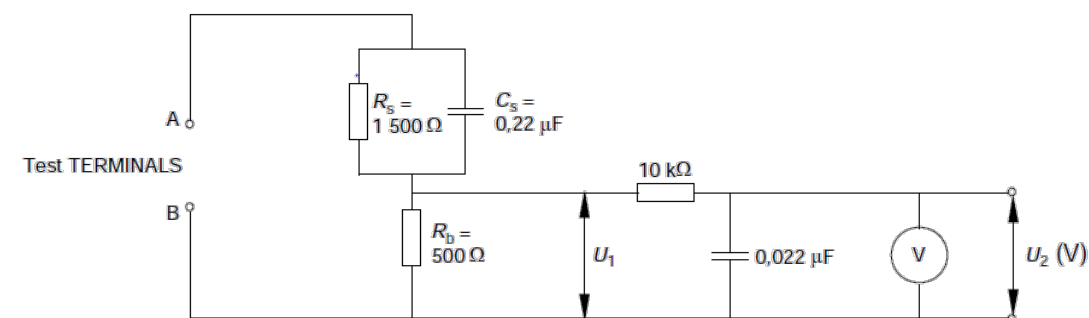


Figure 2 – Measuring network for Leakage Current

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).

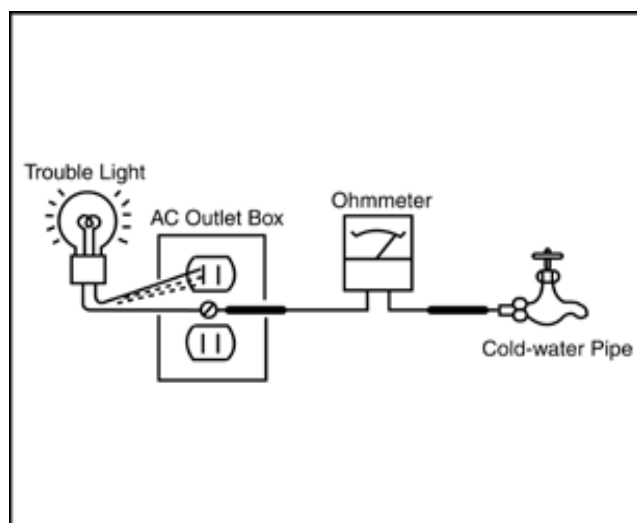


Figure 3. Checking for earth ground.

### 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

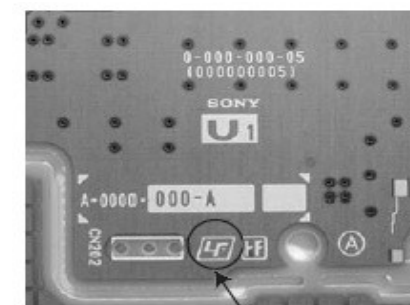


Figure 5: LF logo on circuit board

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 of the following diagnostic items are displayed on screen. If the screen displays a "0", no error has occurred .

#### Self Diag. Quick Reference (LED blinking)

Smart Core RED LED blinking count	Error Item	Detection items – 55" / 65"/ 77"	Detection items – 83"
2x	MAIN_POWER	<B/G> Main 12V over voltage	
3x	DC_ALERT	<B/G> Main 5.0V failure	
	AUD_ERR	<B/S> Audio amp. protection	
4x	LD_ERR	'LD_ERR' for T-con internal error	<P/T/B/G>TCON internal error/TCON I2C communication failure
	<i>BCM_ERR</i>	<i>'BCM_ERR' for EVDD_ERR</i>	<P/T/G/B> EVDD failure
5x	<i>P_ID_ERR</i>	<B/T/P/G> <i>Panel ID EEPROM I2C No ACK (Also panel power failure is a suspect)</i>	<P/T/G/B> <i>Panel ID EEPROM I2C No ACK (Also, panel power failure is a suspect)</i> <T/B> <i>Data corruption in EEPROM</i>
6x	BACKLIGHT_ERR	<B/G/P/LD> Backlight failure	<P/G/B> EVDD over voltage
7x	TEMP_ERR	<B/H/P> Over temperature protection	
8x	4KBE_ERR	<B> 4KBE WDT	

*Blue italic*: detect at startup sequence only.

<G>: Power Supply board, <B>: Main board, <T>: T-con board, <LD>: LD board, <P>: Panel module, <S>: Speaker, <H>: H-board

## SELF DIAGNOSIS FUNCTION

### Self Diag. Quick Reference (Not LED blinking [Record Only])

Error Item	Detection items – 55" / 65" / 77"	Detection items – 83"
TCON_ERR	None	
AUD_ERR_I2C	<B> Audio amp I2C communication failure	
TEMP_ERR_I2C	<B/H> Temp sensor I2C communication failure	
TU_DEMOD_I2C	<B> Tuner & Demodulator I2C communication failure	
AMB_ERR_I2C	None	<B/H> Ambient sensor I2C communication failure

<B>: Main board, <H>: H-board

## SELF DIAGNOSIS FUNCTION

### Retry Limitation by Remote/Power Key

Smart Core Red LED blinking count	Error Name	Retry Permission Times *1	Note
2x	MAIN_POWER	STDWN_RTRY_LIMIT_MAINPOWER = 1	
3x	DC_ALERT (5V)	STDWN_RTRY_LIMIT = 2	
	AUD_ERR	STDWN_RTRY_LIMIT = 2	
4x	LD_ERR	STDWN_RTRY_LIMIT = 2	
	BCM_ERR	STDWN_RTRY_LIMIT = 2	
5x	P_ID_ERR	STDWN_RTRY_LIMIT = 2	
6x	BACKLIGHT	STDWN_RTRY_LIMIT = 2	
7x	TEMP_ERR	STDWN_RTRY_LIMIT = 2	
8x	4KBE_ERR	STDWN_RTRY_LIMIT = 2	

Number of off/on action for MAIN\_POWER shutdown is recorded to STDWN\_OFFON\_CNT\_MAIN\_POWER\*2.

Number of off/on action during the error shutdown is recorded to STDWN\_OFFON\_CNT\*2.

\*1) If  $STDWN\_OFFON\_CNT \leq STDWN\_RTRY\_LIMIT$ , and  $STDWN\_OFFON\_CNT\_MAIN\_POWER \leq STDWN\_RTRY\_LIMIT\_MAINPOWER$ , you can turn the set on by a remote/power key. At this time, if the error occurs again, the  $STDWN\_OFFON\_CNT$  is incremented by 1.

\*2) When the main micro operates normally for  $STDWN\_OFFON\_CLR = 60$  minutes,  $STDWN\_OFFON\_CNT$  and  $STDWN\_OFFON\_CNT\_MAIN\_POWER$  are cleared.

## TROUBLESHOOTING

### Triage Chart: XR-\*80K / \*80CK

#### 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 Color Code: ● : Most likely defective part      ■ : Tertiary possible defective part  
 ▲ : Secondary 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 of Camera	No video all Inputs	No Remote Operation	Cannot connect to Wireless Network	No Audio	Smart Core no LED (Set is still alive)	Bluetooth / One Step Remote (OSR) can't connect
Main Board	▲	●	■	■	■	●	●		●			●		▲			▲	▲	●	●	▲	●	▲	▲	●	▲	▲
Power Board	●	▲	■	■	■												●					▲			▲		
Receiver Board														●			▲						●		●		
Speaker		▲																							●		
Wi-fi & BT Module																								●			●
LD-Board			▲																								
V By One FFC				▲														▲				▲					
T-con				●														▲				■					
OLED Panel			●	▲	●	▲												●				■					
Camera (bundle or accessory)																					●						
Problem	Power	Power	Panel	Panel (Communication)	Panel (Backlight)	TEMP	4KBE																				
		Audio	LD	T-con																							

# TROUBLESHOOTING

## Triage Chart: XR-\*A80L / \*A80CL / XR-\*A75L

### 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.

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Main Board	▲	●	■	■	■	●	●		●			●		▲			▲	▲	●	●	▲	●	▲	▲	●	▲	▲
Power Board	●	▲	■	■	■												●					▲			▲		
Receiver Board														●			▲						●		●		
Speaker		▲																							●		
Wi-fi & BT Module																								●			●
V By One FFC				▲														▲				▲					
T-con			▲	●														▲				■					
OLED Panel			●	▲	●		▲											●				■					
Camera (bundle or accessory)																					●						
Problem	Power	Power	Panel	Panel (Communication)	Panel (Backlight)	TEMP	4KBE																				
		Audio	LD	T-con																							



# TROUBLESHOOTING

## Triage Chart: XR-83A80\*

### Before you make the service call:

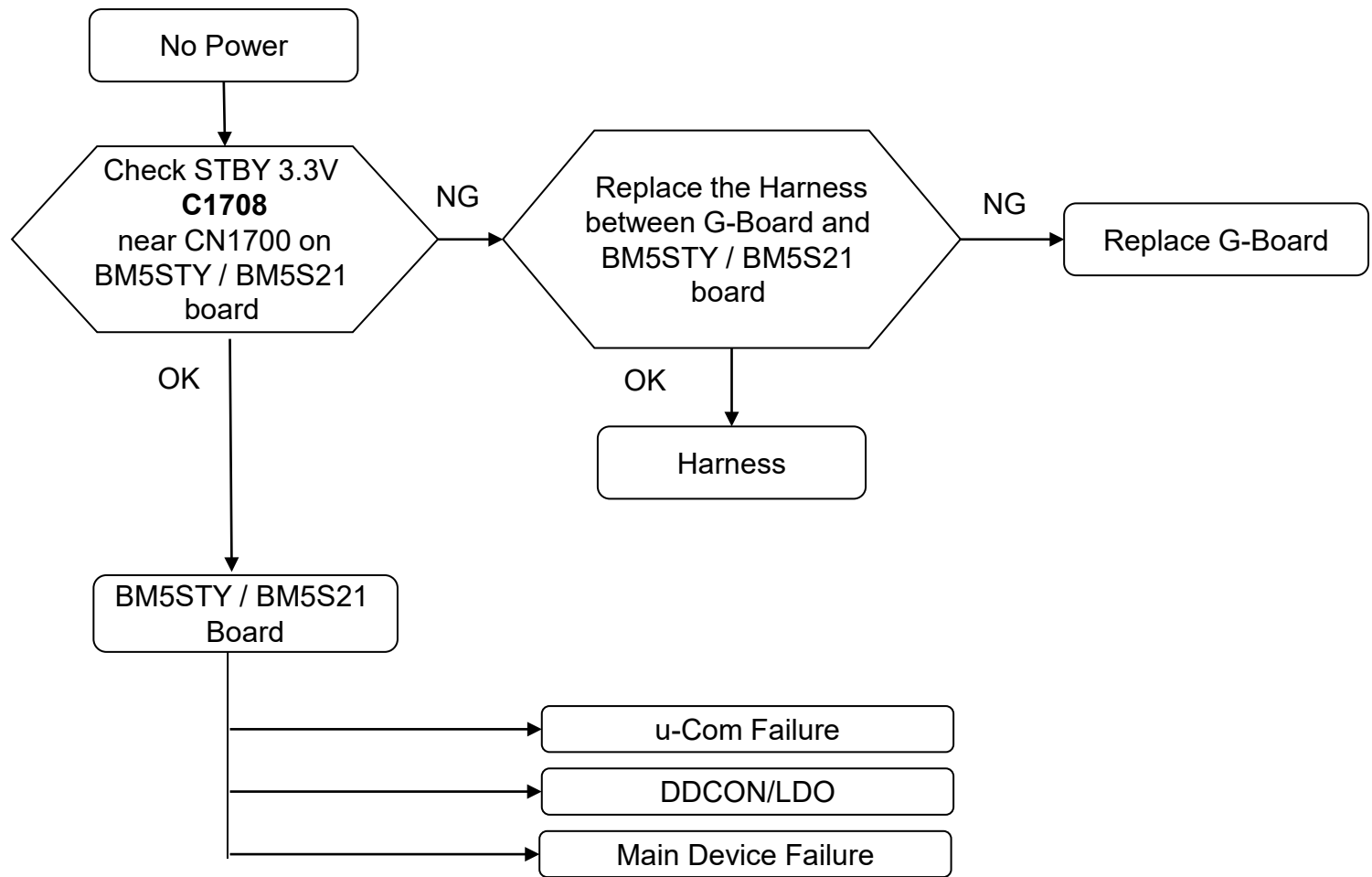
1. Confirm the symptom from the customer.
2. Select that symptom from the chart.
3. Bring all the boards and cables listed for that symptom.
4. Follow the troubleshooting charts in the technical guides to isolate the board.

5. Chart Color Code: ● : Most likely defective part      ■ : Tertiary possible defective part  
 ▲ : Secondary 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	8KBE_COM_ERR	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 of Camera	No video all Inputs	No Remote Operation	Cannot connect to Wireless Network	No Audio	Smart Core no LED (Set is still alive)	Bluetooth / One Step Remote (OSR) can't connect	
Main Board	▲	●	■	■	■	●	●		●			●		▲			▲	▲	●	●	▲	●	▲	▲	▲	▲	▲	▲	
Power Board	●	▲	■	■	▲													●					▲		▲				
Receiver Board																								●		●			
Actuator (Panel module)		▲																								●			
Speaker (Sub woofer)		▲																								●			
Wi-fi & BT Module																									●			●	
V By One FFC																							▲						
T-con (Panel module)				▲	●																		■						
OLED Panel (Panel module)			●	▲	●	▲																	■						
Camera (accessory)																						●							
Problem	Power	Power	Panel module	Panel (Communication)	Panel Power	TEMP	4KBE																						
		Audio	T-con Power	T-con																									

# TROUBLESHOOTING

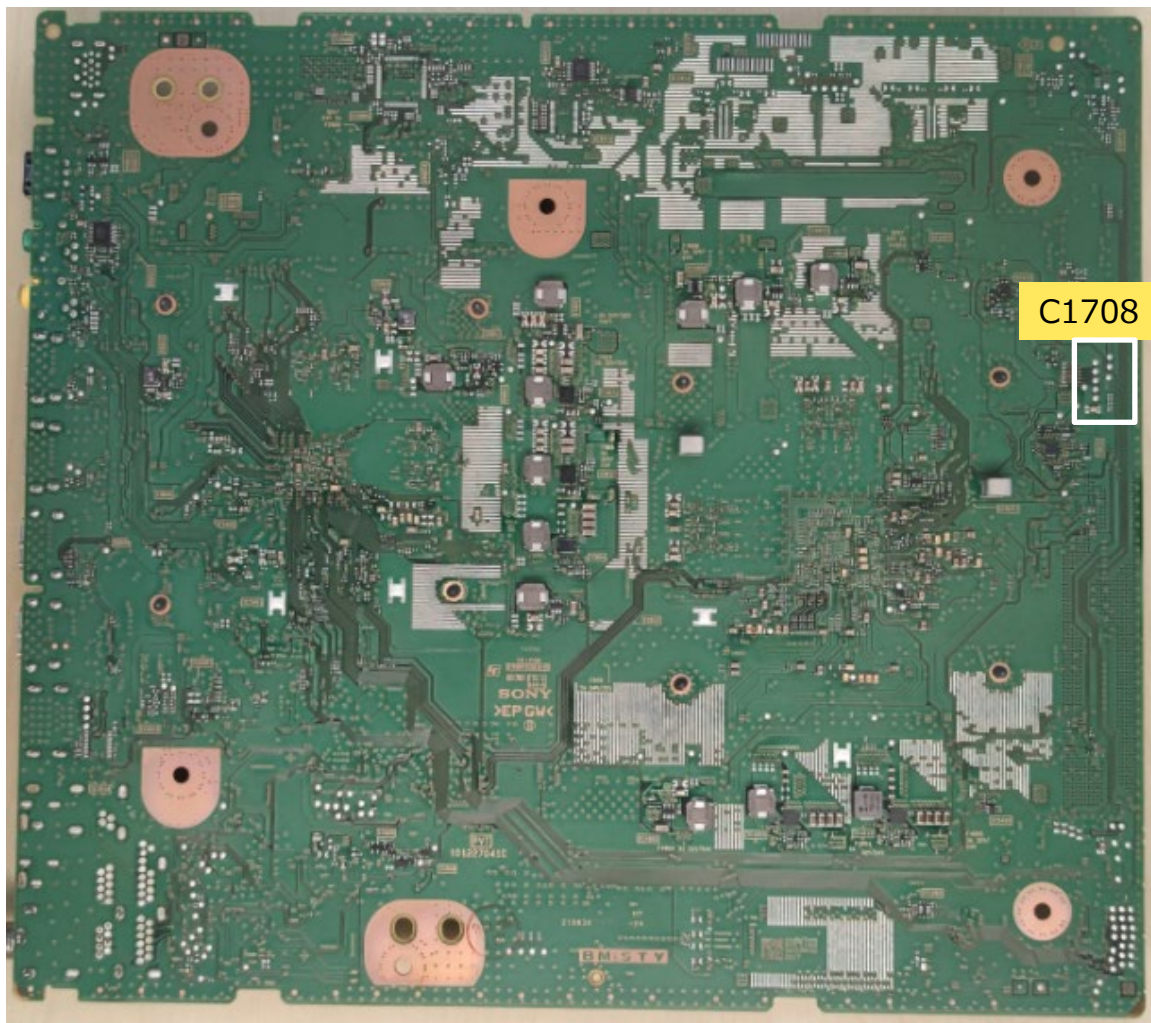
## 1.0 No Power - PSU



# TROUBLESHOOTING

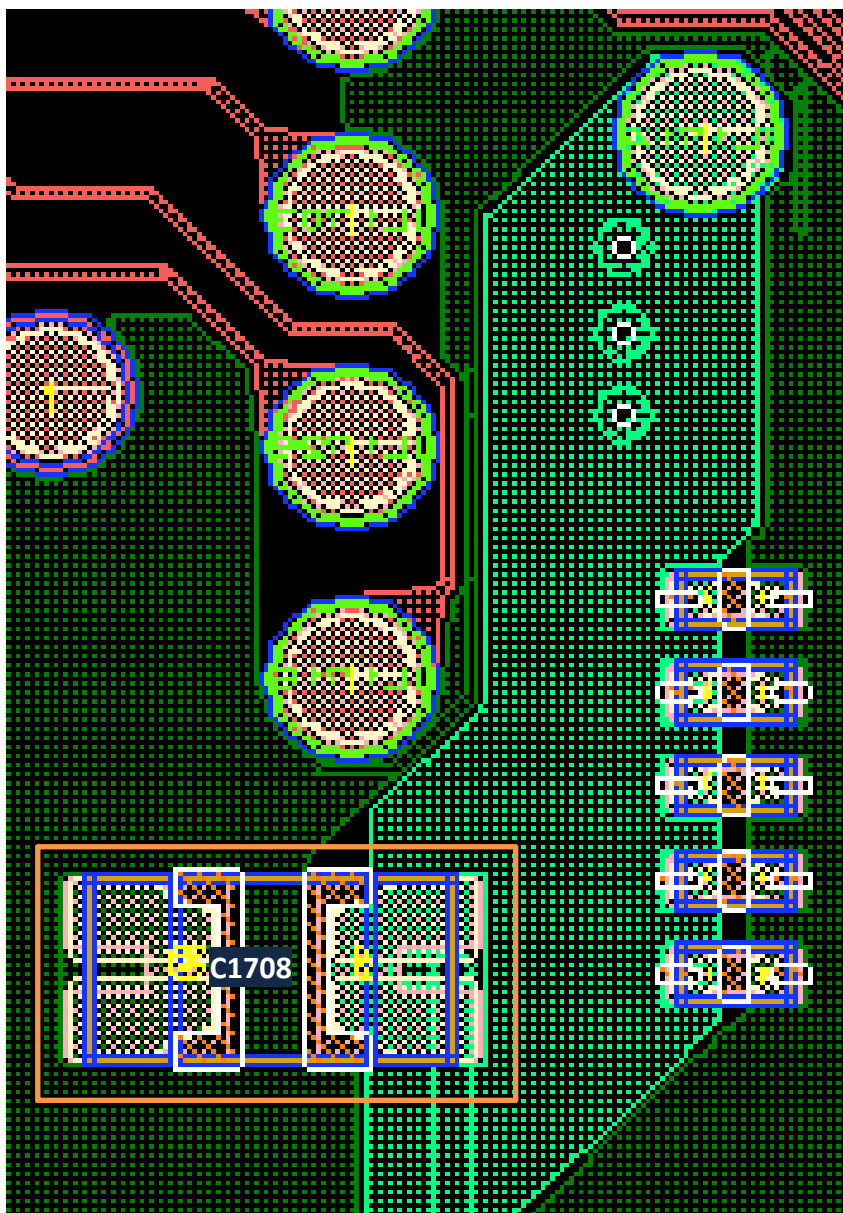
## Board View

B-Side



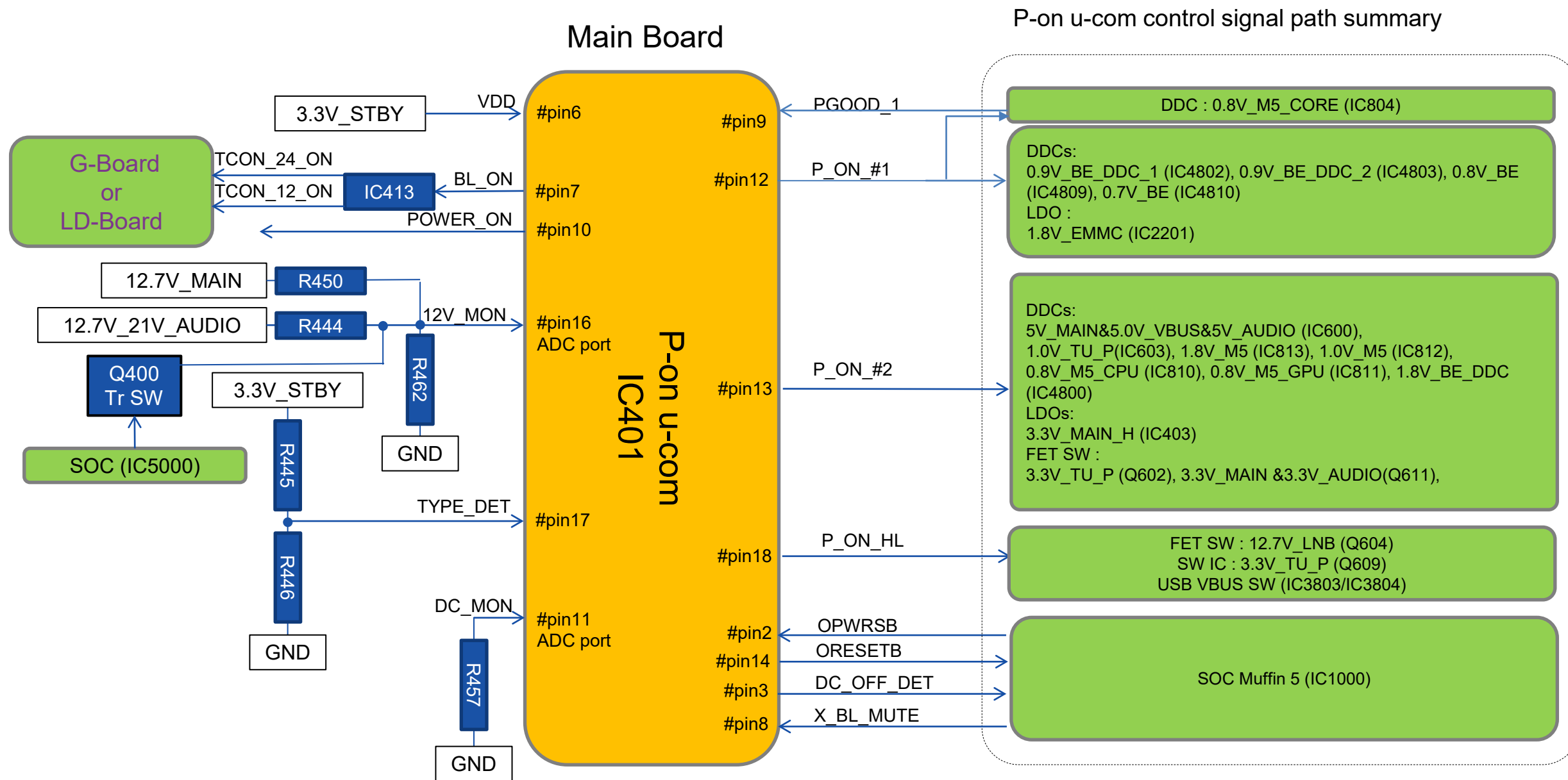
# TROUBLESHOOTING

## Checking Point



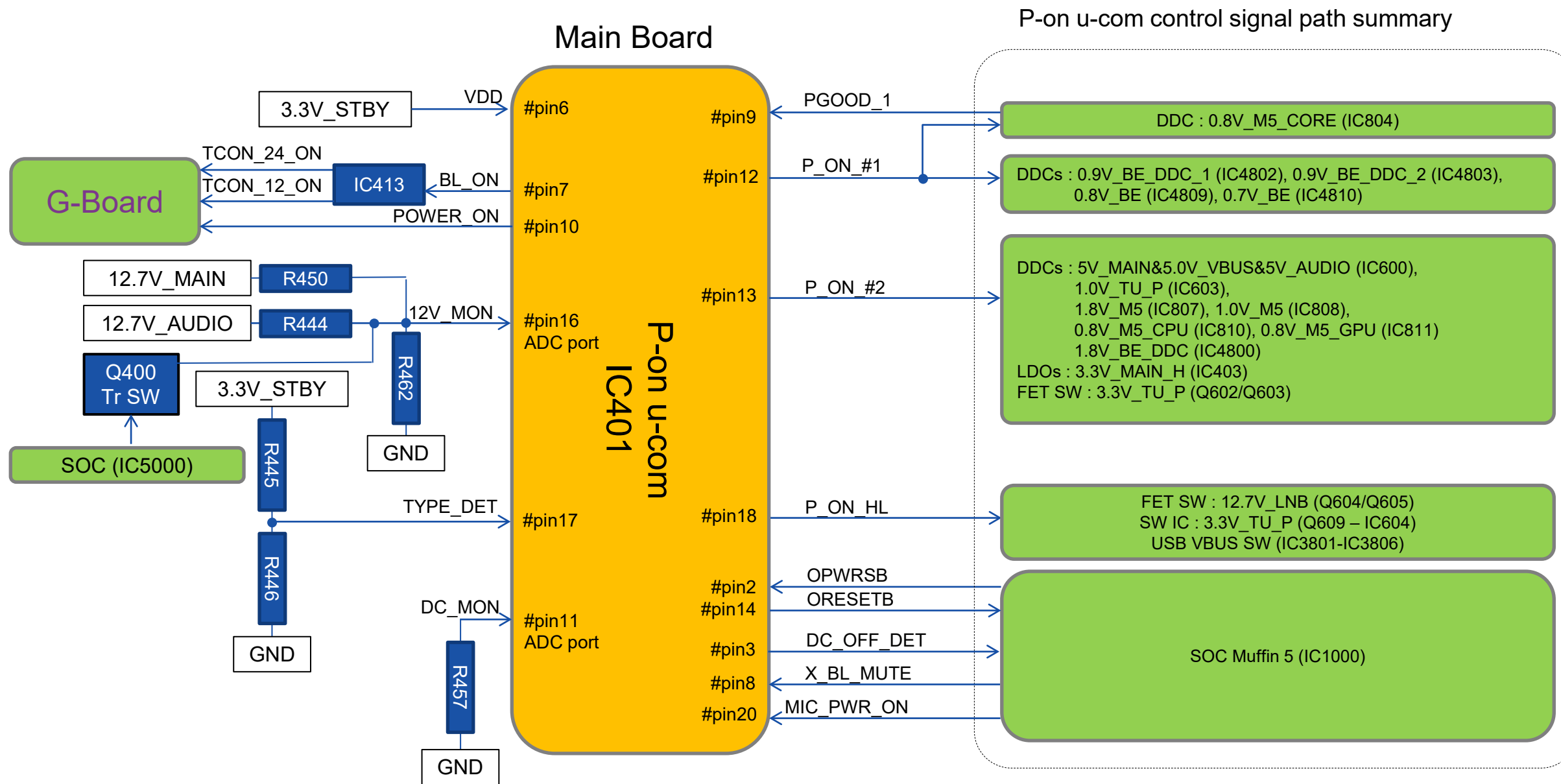
# TROUBLESHOOTING

## 1.2 No Power u-com Failure



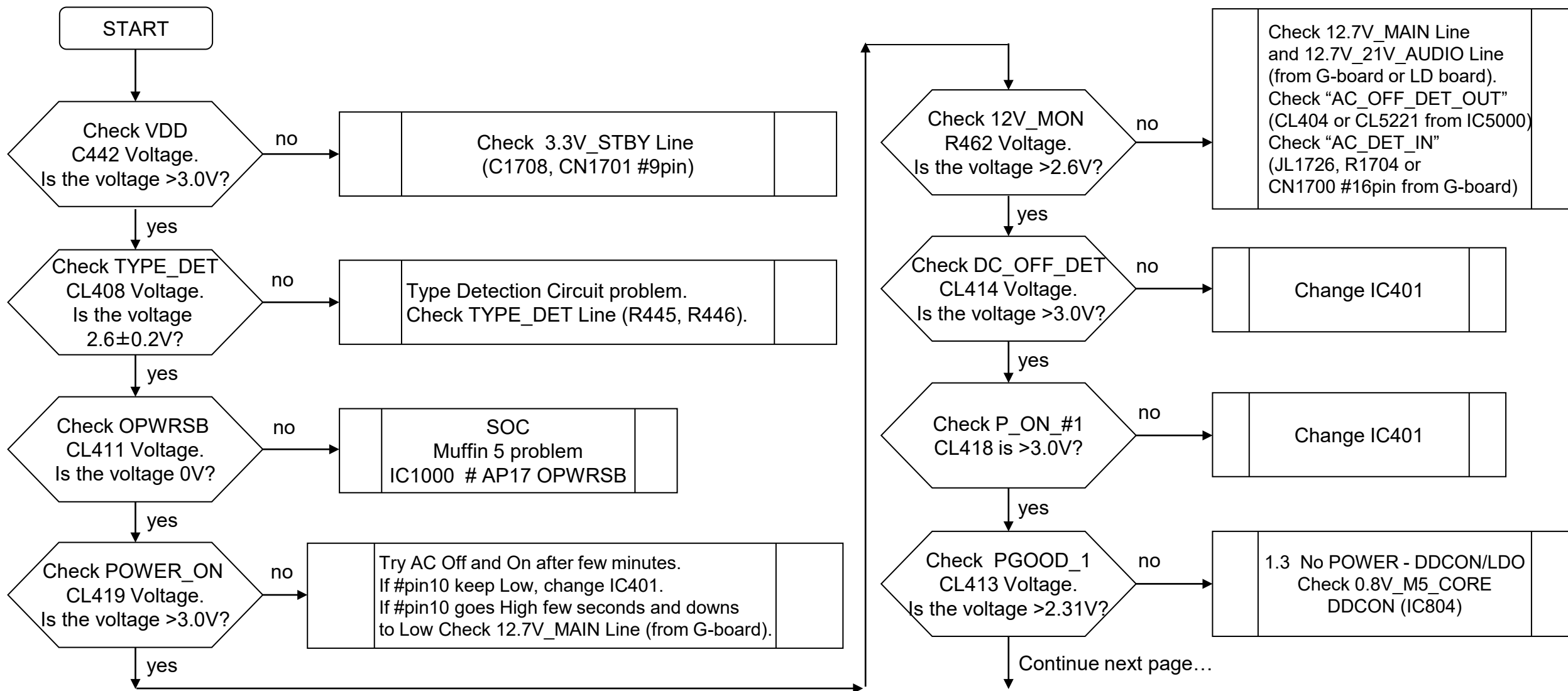
# TROUBLESHOOTING

## 1.2 No Power u-com Failure – XR-83A80\*



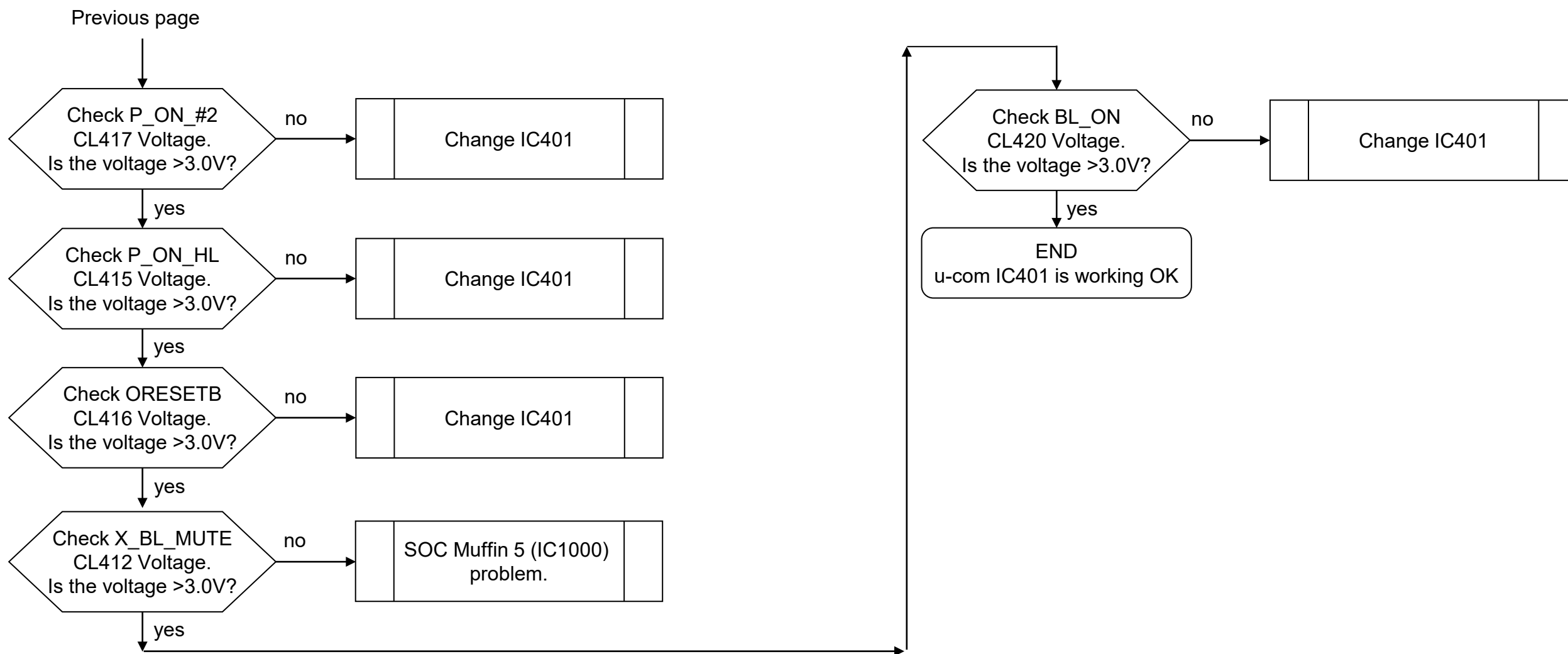
# TROUBLESHOOTING

## 1.2 No Power u-com Failure



## TROUBLESHOOTING

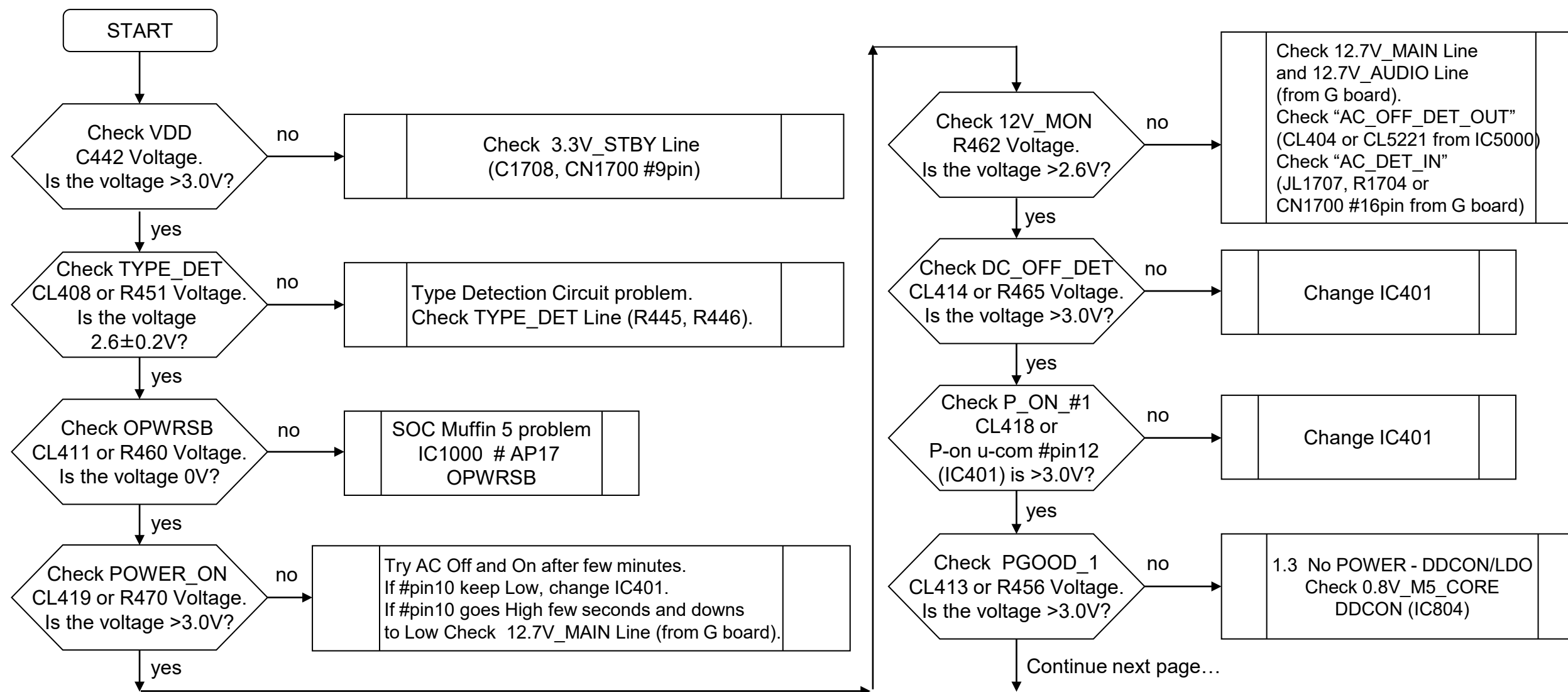
### 1.2 No Power u-com Failure





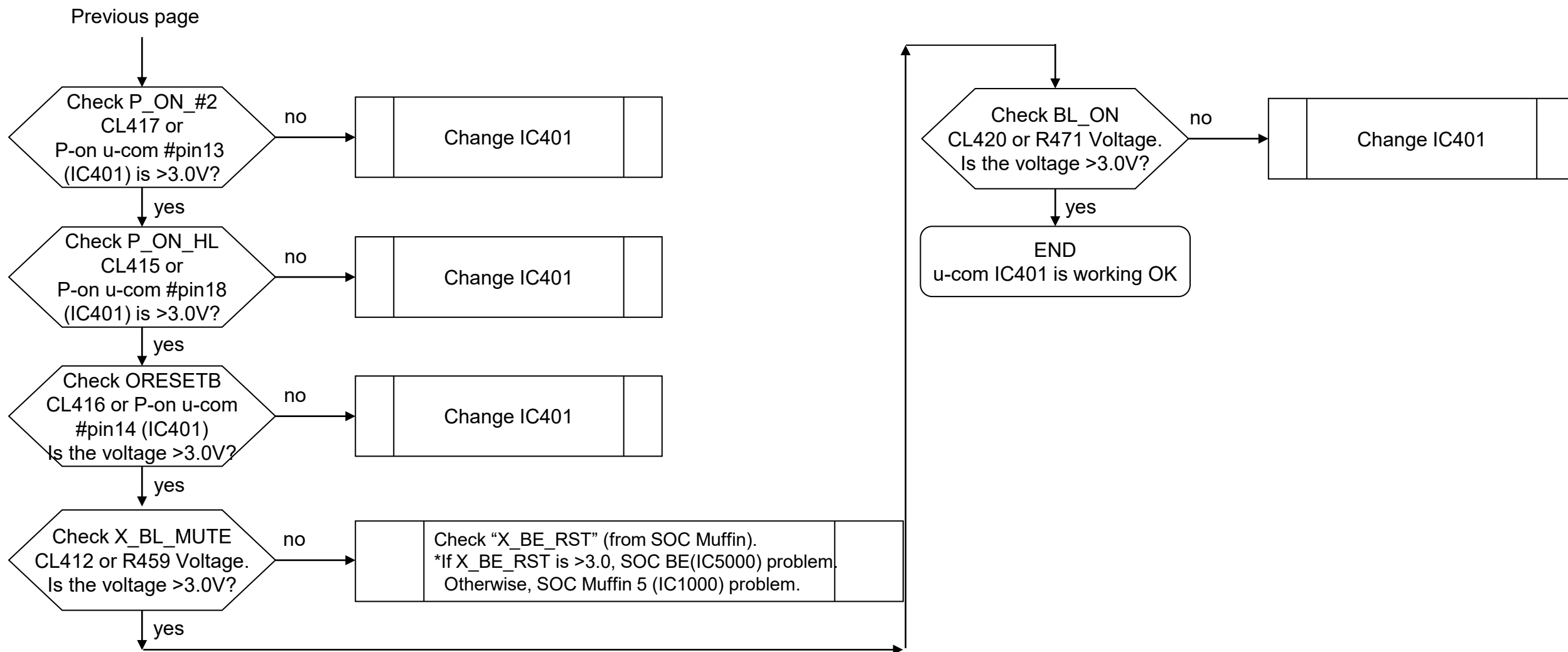
## TROUBLESHOOTING

### 1.2 No Power u-com Failure – XR-83A80\*



## TROUBLESHOOTING

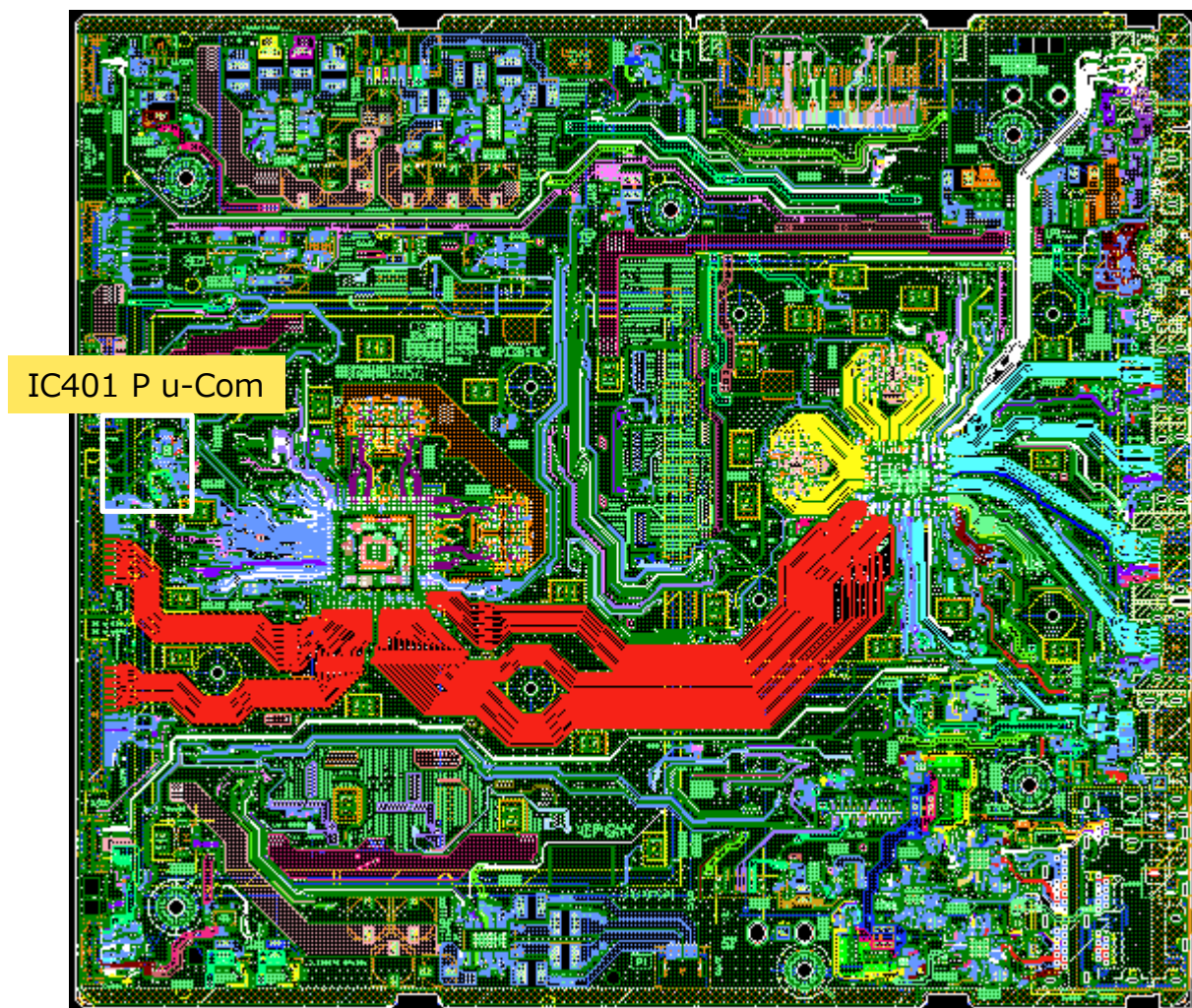
### 1.2 No Power u-com Failure – XR-83A80\*



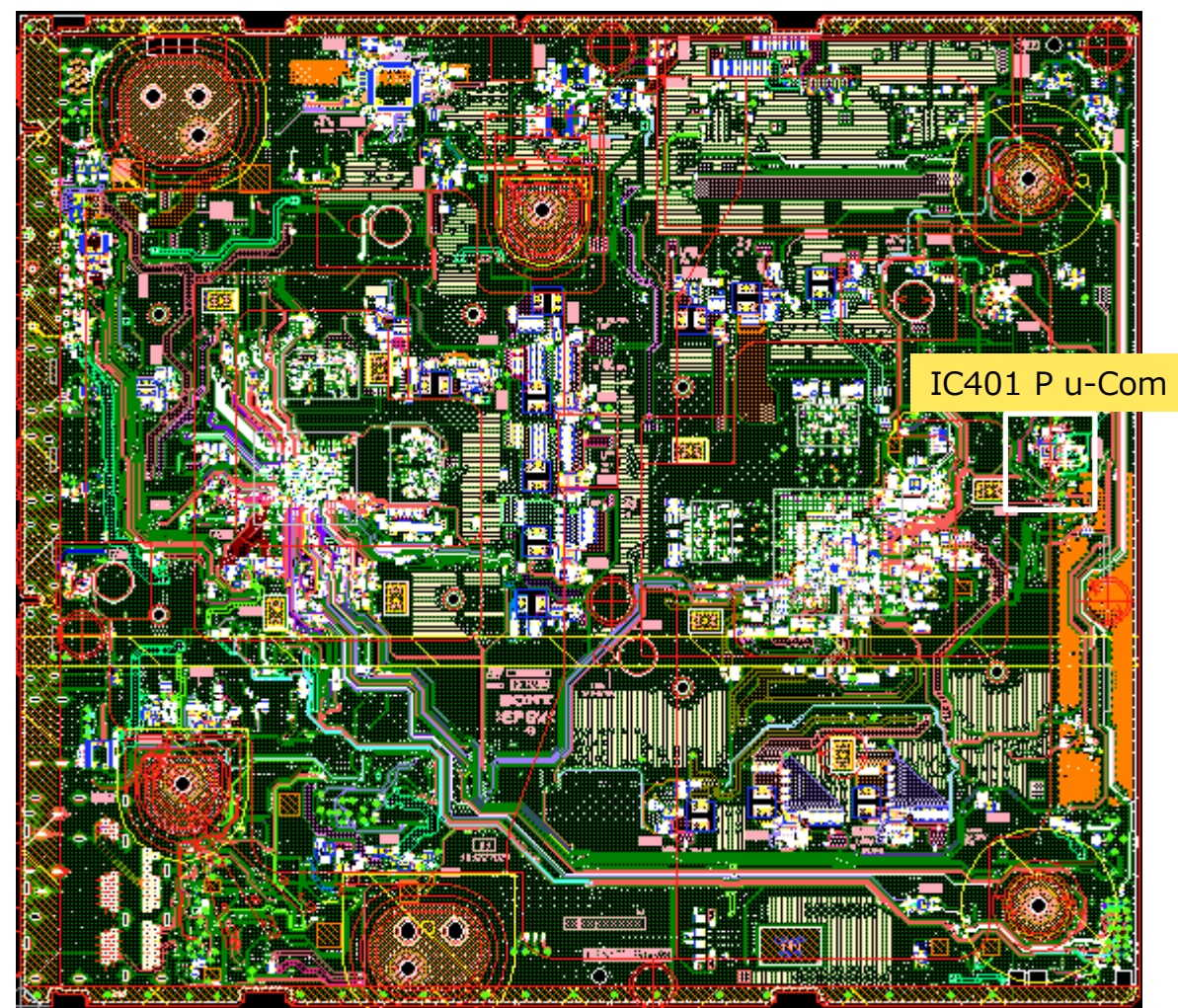
# TROUBLESHOOTING

## Board View

Top Side



B-Side

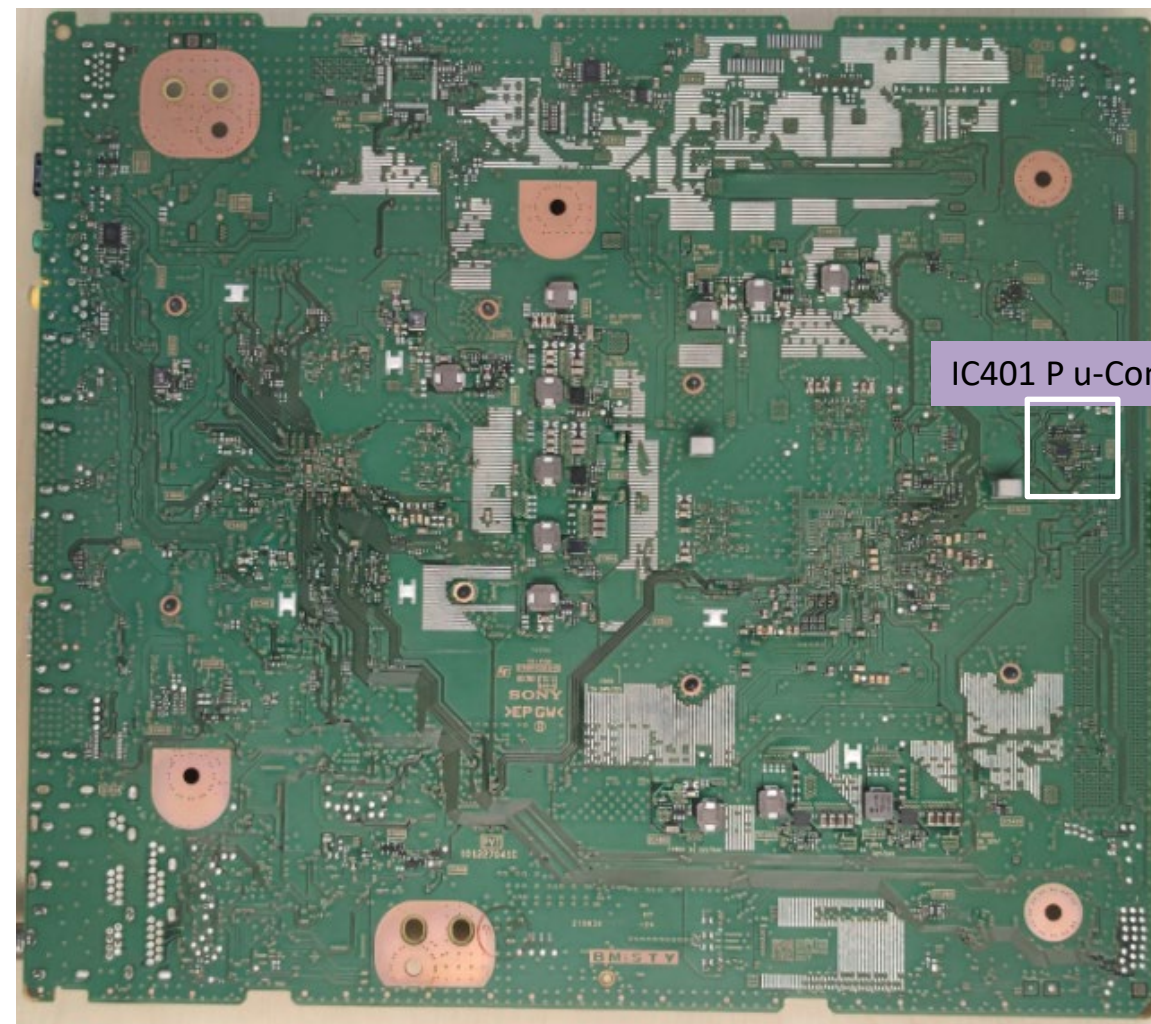
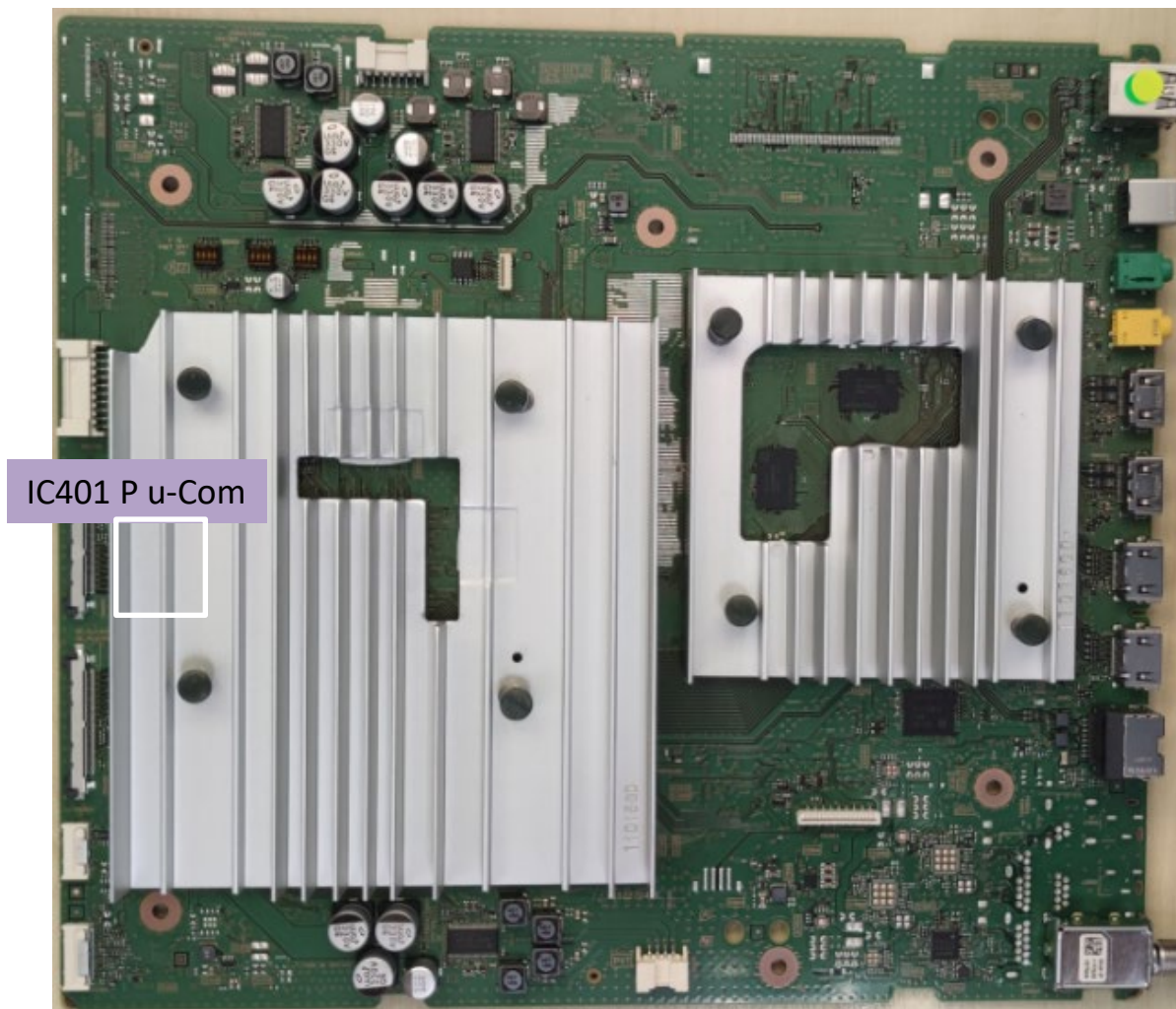


# TROUBLESHOOTING

## Board View

Top Side

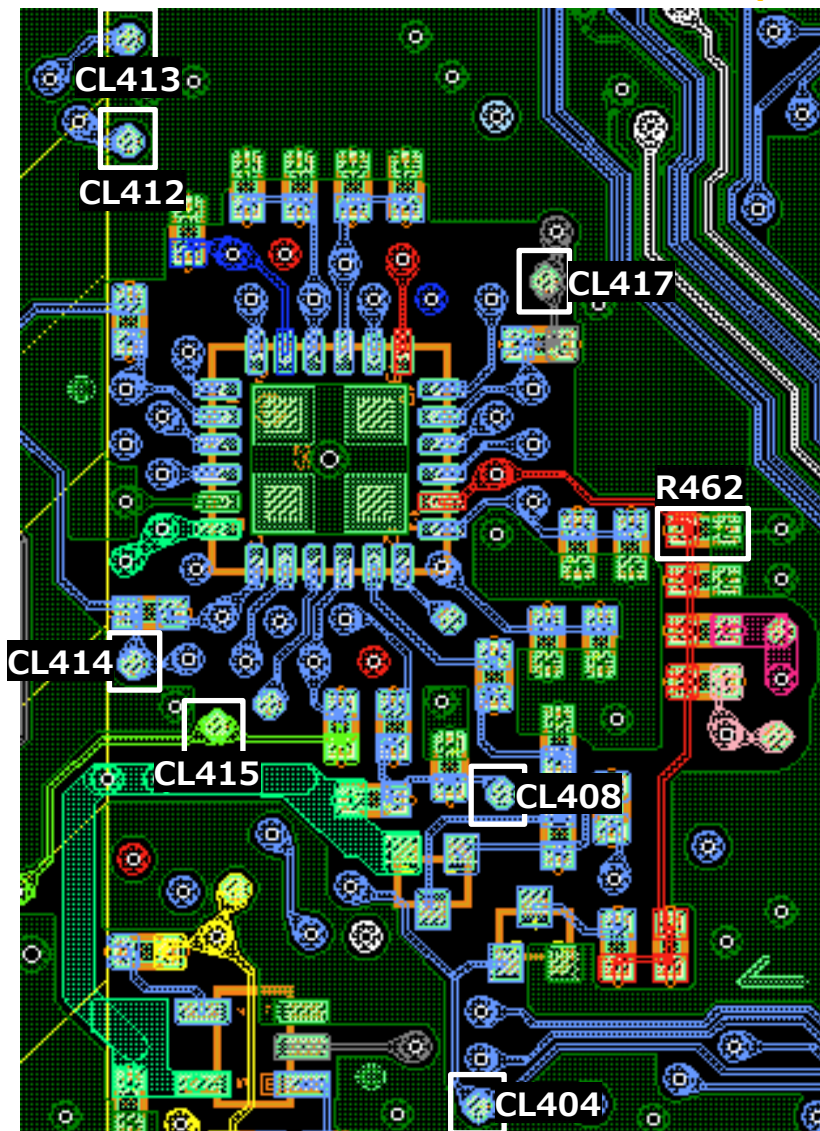
B-Side



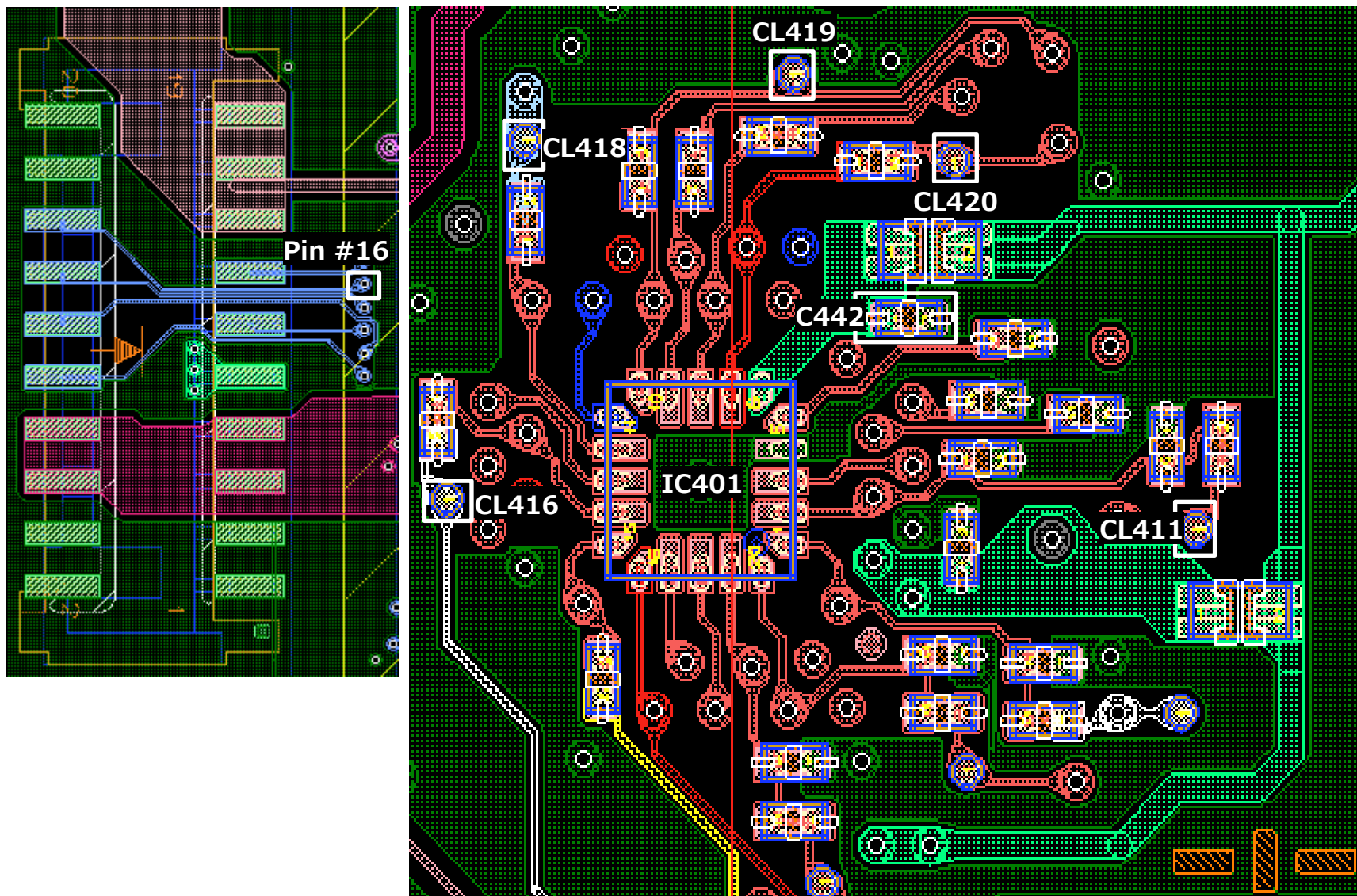
# TROUBLESHOOTING

## Checking Point

Top Side



B-Side



## TROUBLESHOOTING

### 1.3 No Power DDCON/LDO

Board	Operation	IC Ref	Voltage supply	Output ref.	Enable pin	Enable source	Fuse	Vcc ref.
BM5STY	DC/DC	IC418	5.0V_STBY_H	C510	R557	Vin	-	C505
	LDO	IC403	3.3V_MAIN_H	C416	IC403 Pin#3	P_ON_#2	-	C415
	DC/DC	IC600	5V_MAIN/5.0V_VBUS/5V_AUDIO	C610	IC600 Pin#15	P_ON_#2	F600	C601
	DC/DC	IC618	3.3V_MAIN	C727	IC618 Pin#4	1.8V_BE_DDC	F609	C726
	DC/DC	IC613	5.0V_VBUS_CAMERA	C708	IC613 Pin#4	P_ON_#2	F607	C707
	DC/DC	IC603	1.0V_TU_P	C630	IC603 Pin#4	P_ON_#2 or IC1000 #AL18 (EWS_PWR_ON)	-	C628
	DC/DC	IC801	1.1V_M5_DDR	C806	IC801 Pin#4	R804/R907 (3.3V_STBY)	-	C801
	DC/DC	IC802	0.9V_M5_STBY	C809	IC802 Pin#4	R804/R907 (3.3V_STBY)	-	C807
	DC/DC	IC803	1.8V_STBY	C812	IC803 Pin#4	R804 (3.3V_STBY)	-	C810
	DC/DC	IC804	0.8V_M5_CORE	C846	IC804 Pin#8	P_ON_#1	F802	C831
	LDO	IC806	1.8V_M5_ET_STBY	C818	IC806 Pin#3	IC1000 #AN19 (ETHER_PWR_EN)	-	C817
	DC/DC	IC813	1.8V_M5	C904	IC813 Pin#4	P_ON_#2	F807	C902
	DC/DC	IC812	1.0V_M5	C898	IC812 Pin#4	P_ON_#2	F805	C896
	LDO	IC809	3.3V_M5_STBY	C816	R917	R917 (3.3V_STBY)	-	C815
	DC/DC	IC810	0.8V_M5_CPU	C861	IC810 Pin#19	P_ON_#2	F803	C855
	DC/DC	IC811	0.8V_M5_GPU	C874	IC811 Pin#19	P_ON_#2	F804	C868
	LDO	IC2201	1.8V_EMMC	C2216	IC2201 Pin#3	P_ON_#1 or ORESETB	-	C2214
	DC/DC	IC4800	1.8V_BE_DDC	C4805	IC4800 Pin#4	P_ON_#2	F4800	C4803
	DC/DC	IC4801	1.1V_BE	C4813	IC4801 Pin#4	1.8V_BE_DDC	F4801	C4812
	DC/DC	IC4802	0.9V_BE_DDC_1	C4820	IC4802 Pin#4	P_ON_#1	F4802	C4819
DC/DC	IC4803	0.9V_BE_DDC_2	C4828	IC4803 Pin#4	P_ON_#1	F4803	C4827	
DC/DC	IC4809	0.8V_BE	C4860	IC4809 Pin#8	P_ON_#1	F4804	C4845	
DC/DC	IC4810	0.7V_BE	C4876	IC4810 Pin#8	P_ON_#1	F4805	C4863	

P\_ON\_#1 : P-on u-com IC401 #pin12

P\_ON\_#2 : P-on u-com IC401 #pin13

ORESETB : P-on u-com IC401 #pin14

## TROUBLESHOOTING

### 1.3 No Power DDCON/LDO – XR-83A80\*

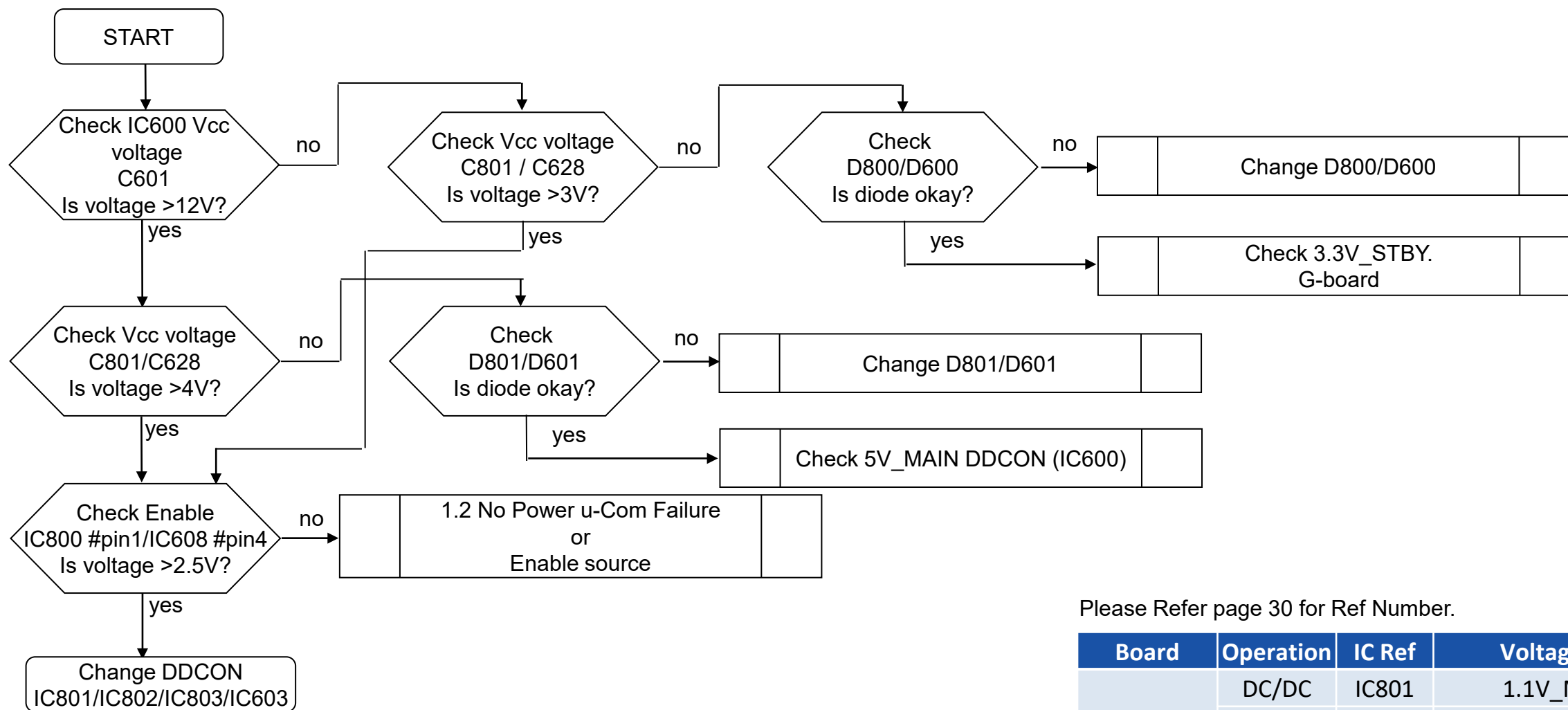
Board	Operation	IC Ref	Voltage supply	Output ref.	Enable pin	Enable source	Fuse	Vcc ref.
BM5S21	DCDC	IC418	5.0V_STBY_H	C508/JL1212	R557	R557(3.3V_STBY)	-	C505
	LDO	IC403	3.3V_MAIN_H	C416/CL402	R413(shorted)	P_ON_#2	-	C415
	DC/DC	IC600	5V_MAIN/5V_AUDIO	C610/JL601	R600(shorted)/CL604	P_ON_#2	F600	C601
	DC/DC	IC601	3.3V_MAIN/3.3V_AUDIO	C619/JL603	R658/CL605	R658(1.8V_BE_DDC)	F601	C618
	DC/DC	IC603	1.0V_TU_P	C630/CL607	R631(shorted)/JL607	P_ON_#2 or IC1000 #AL18 (EWS_PWR_ON)	-	C628
	DC/DC	IC801	1.1V_M5_DDR	C806/JL801	R913(shorted)	R804/R907 (3.3V_STBY)	-	C801/CL819
	DC/DC	IC802	0.9V_M5_STBY	C809/CL803	R908(shorted)	R804/R907 (3.3V_STBY)	-	C807/CL822
	DC/DC	IC803	1.8V_STBY	C812/CL811	R822(shorted)	R804 (3.3V_STBY)	-	C810/CL824
	DC/DC	IC804	0.8V_M5_CORE	C846/JL803	R849(shorted)/CL816	P_ON_#1	F802	C831
	LDO	IC806	1.8V_M5_ET_STBY	C818/JL808	R832(shorted)	IC1000 #AN19 (ETHER_PWR_EN)	-	C817/CL826
	DC/DC	IC807	1.8V_M5	C823/JL811	R833(shorted)/CL827	P_ON_#2	F800	C822
	DC/DC	IC808	1.0V_M5	C829/JL813	R839(shorted)/CL828	P_ON_#2	F801	C828
	LDO	IC809	3.3V_M5_STBY	C816/CL831	R917	R917(3.3V_STBY)	-	C815
	DC/DC	IC810	0.8V_M5_CPU	C861/JL816	R914/CL829	P_ON_#2	F803	C855
	DC/DC	IC811	0.8V_M5_GPU	C874/JL818	R915/CL830	P_ON_#2	F804	C868
	DC/DC	IC4800	1.8V_BE_DDC	C4805/JL4801	R4801(shorted)/CL4816	P_ON_#2	F4800	C4803
	DC/DC	IC4801	1.1V_BE	C4813/JL4803	R4907/CL4817	R4907(1.8V_BE_DDC)	F4801	C4812
	DC/DC	IC4802	0.9V_BE_DDC_1	C4820/JL4805	R4819(shorted)/CL4818	P_ON_#1	F4802	C4819
	DC/DC	IC4803	0.9V_BE_DDC_2	C4828/JL4807	R4827(shorted)/CL4819	P_ON_#1	F4803	C4827
	DC/DC	IC4809	0.8V_BE	C4860/JL4819	R4849(shorted)/CL4808	P_ON_#1	F4804	C4845
DC/DC	IC4810	0.7V_BE	C4878/JL4821	R4865(shorted)/CL4811	P_ON_#1	F4805	C4863	

P\_ON\_#1 : P-on u-com IC401 #pin12

P\_ON\_#2 : P-on u-com IC401 #pin13

# TROUBLESHOOTING

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



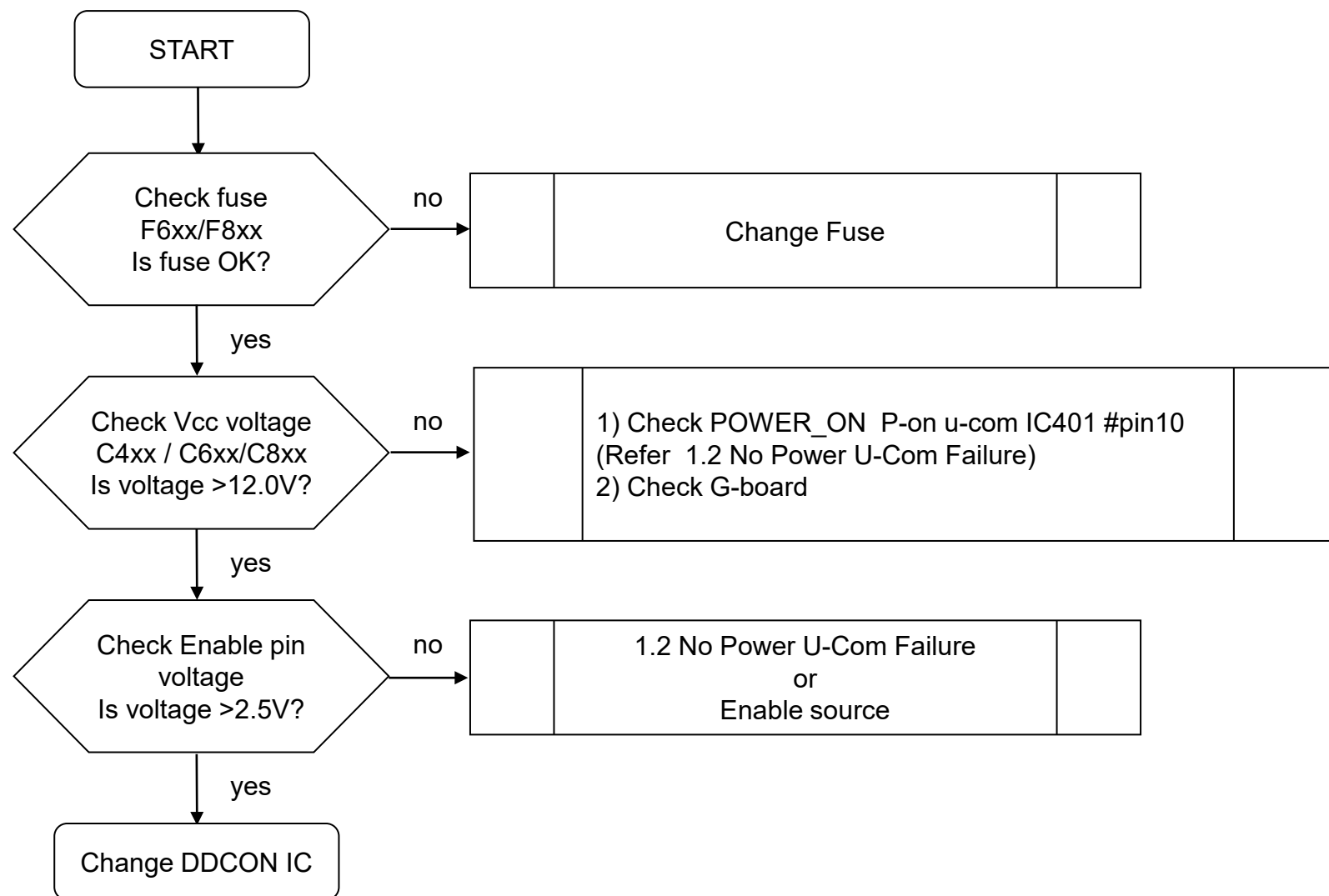
Please Refer page 30 for Ref Number.

Board	Operation	IC Ref	Voltage supply
BM5STY	DC/DC	IC801	1.1V_M5_DDR
	DC/DC	IC802	0.9V_M5_STBY
	DC/DC	IC803	1.8V_STBY
	DC/DC	IC603	1.0V_TU_P



## TROUBLESHOOTING

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

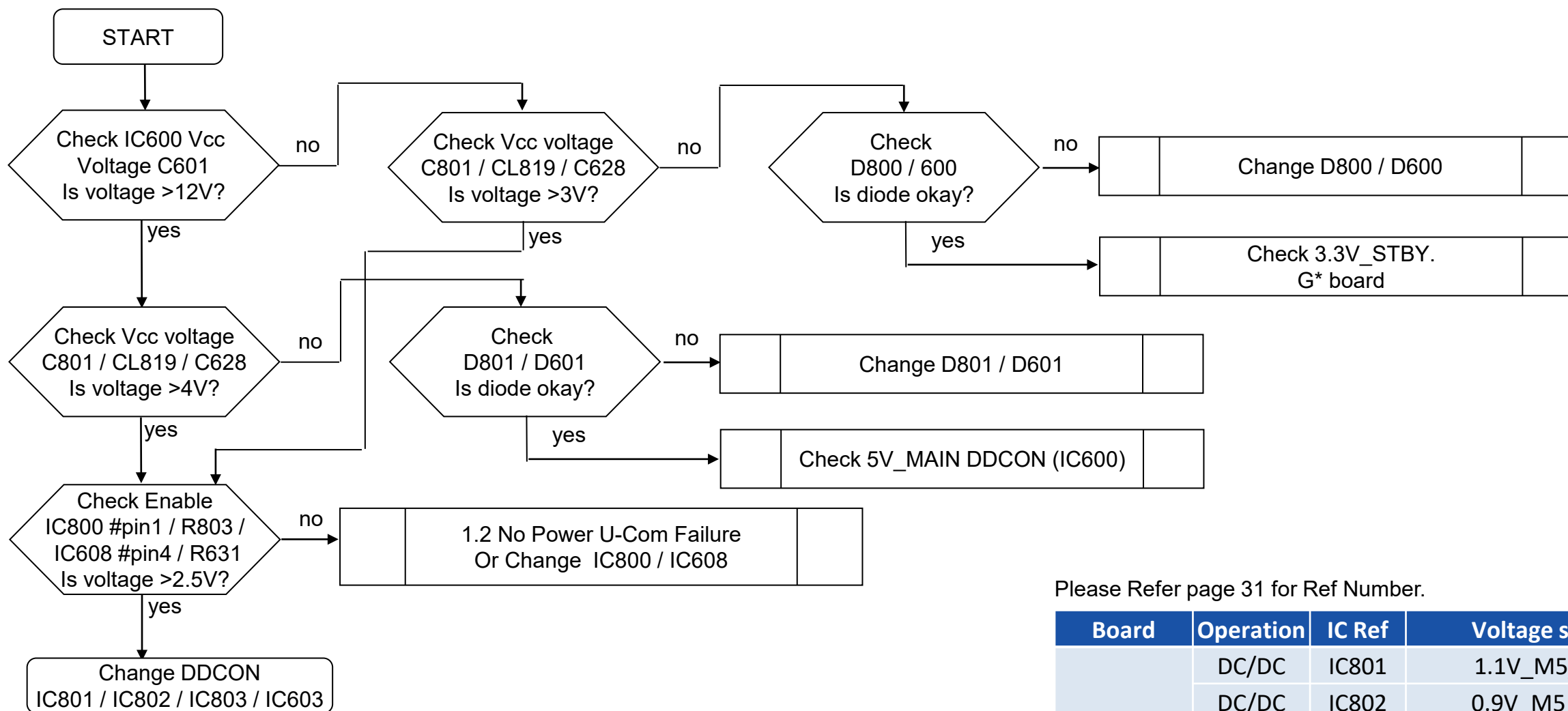


Please Refer page 30 for Ref Number.

Board	Operation	IC Ref	Voltage supply
BM5STY	DC/DC	IC418	5.0V_STBY_H
	DC/DC	IC600	5V_MAIN/5V_AUDIO
	DC/DC	IC618	3.3V_MAIN
	DC/DC	IC613	5.0V_VBUS_CAMERA
	DC/DC	IC804	0.8V_M5_CORE
	DC/DC	IC813	1.8V_M5
	DC/DC	IC812	1.0V_M5
	DC/DC	IC810	0.8V_M5_CPU
	DC/DC	IC811	0.8V_M5_GPU
	DC/DC	IC4800	1.8V_BE_DDC
	DC/DC	IC4801	1.1V_BE
	DC/DC	IC4802	0.9V_BE_DDC_1
	DC/DC	IC4803	0.9V_BE_DDC_2
DC/DC	IC4809	0.8V_BE	
DC/DC	IC4810	0.7V_BE	

# TROUBLESHOOTING

## 1.3 No Power DDCON/LDO (DDCON Check) – XR-83A80\*

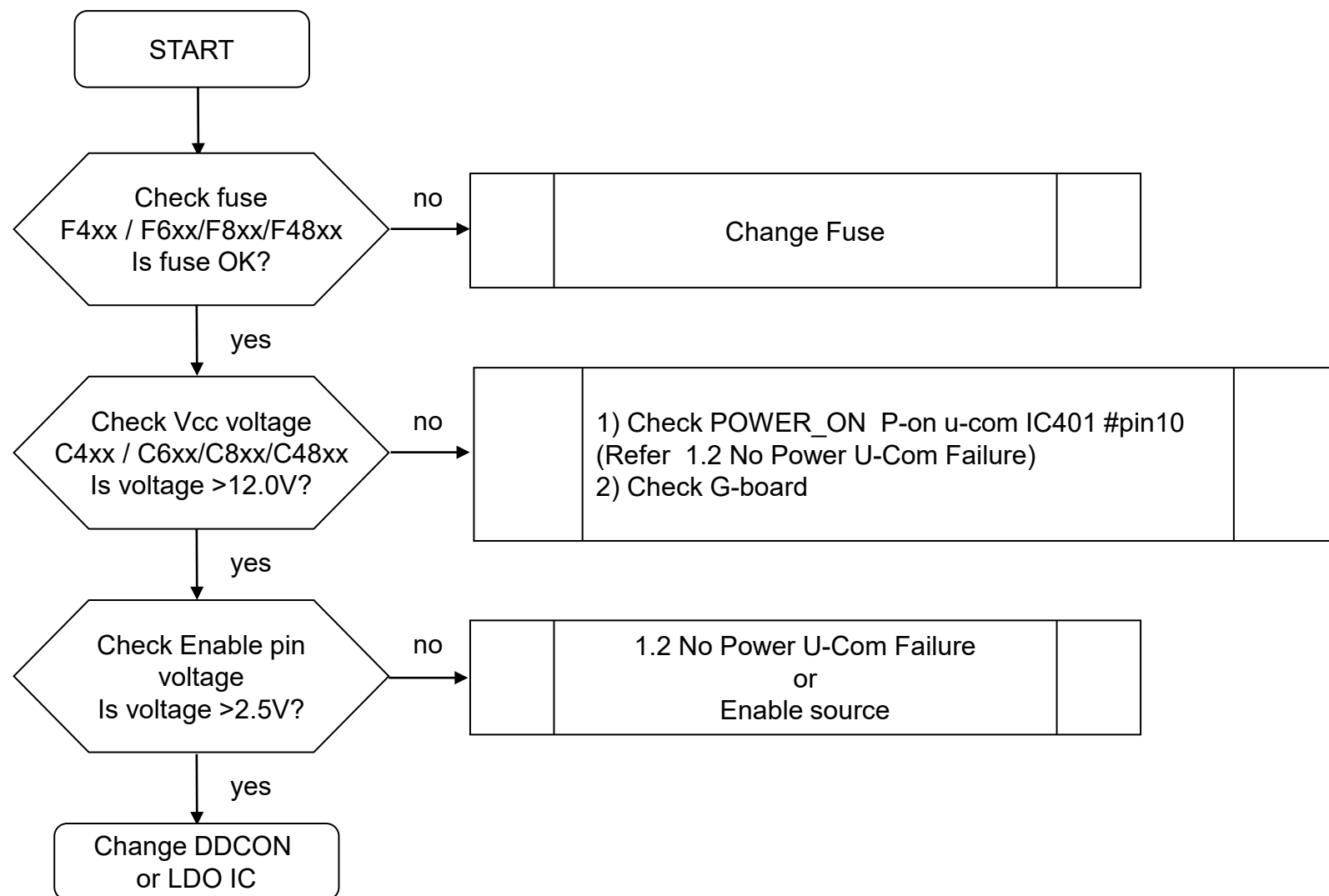


Please Refer page 31 for Ref Number.

Board	Operation	IC Ref	Voltage supply
BM5S21	DC/DC	IC801	1.1V_M5_DDR
	DC/DC	IC802	0.9V_M5_STBY
	DC/DC	IC803	1.8V_STBY
	DC/DC	IC603	1.0V_TU_P

## TROUBLESHOOTING

### 1.3 No Power DDCON/LDO (DDCON Check) – XR-83A80\*

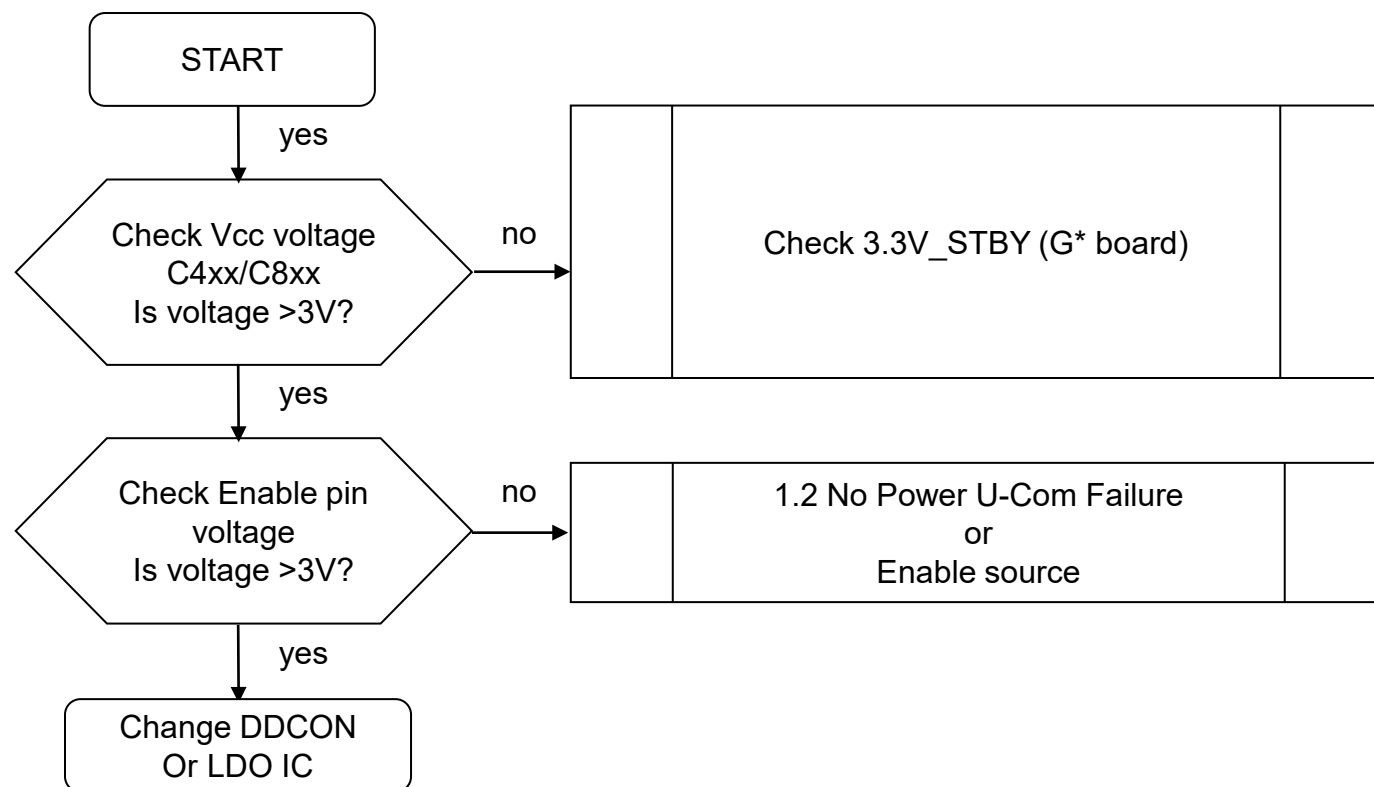


Please Refer page 31 for Ref Number.

Board	Operation	IC Ref	Voltage supply
BM5S21	DC/DC	IC600	5V_MAIN/5V_AUDIO
	DC/DC	IC601	3.3V_MAIN/3.3V_AUDIO
	DC/DC	IC804	0.8V_M5_CORE
	DC/DC	IC807	1.8V_M5
	DC/DC	IC808	1.0V_M5
	DC/DC	IC810	0.8V_M5_CPU
	DC/DC	IC811	0.8V_M5_GPU
	DC/DC	IC4800	1.8V_BE_DDC
	DC/DC	IC4801	1.1V_BE
	DC/DC	IC4802	0.9V_BE_DDC_1
	DC/DC	IC4803	0.9V_BE_DDC_2
	DC/DC	IC4809	0.8V_BE
DC/DC	IC4810	0.7V_BE	

## TROUBLESHOOTING

### 1.3 No Power DDCON/LDO (DDCON Check) – XR-83A80\*



Please Refer page 31 for Ref Number.

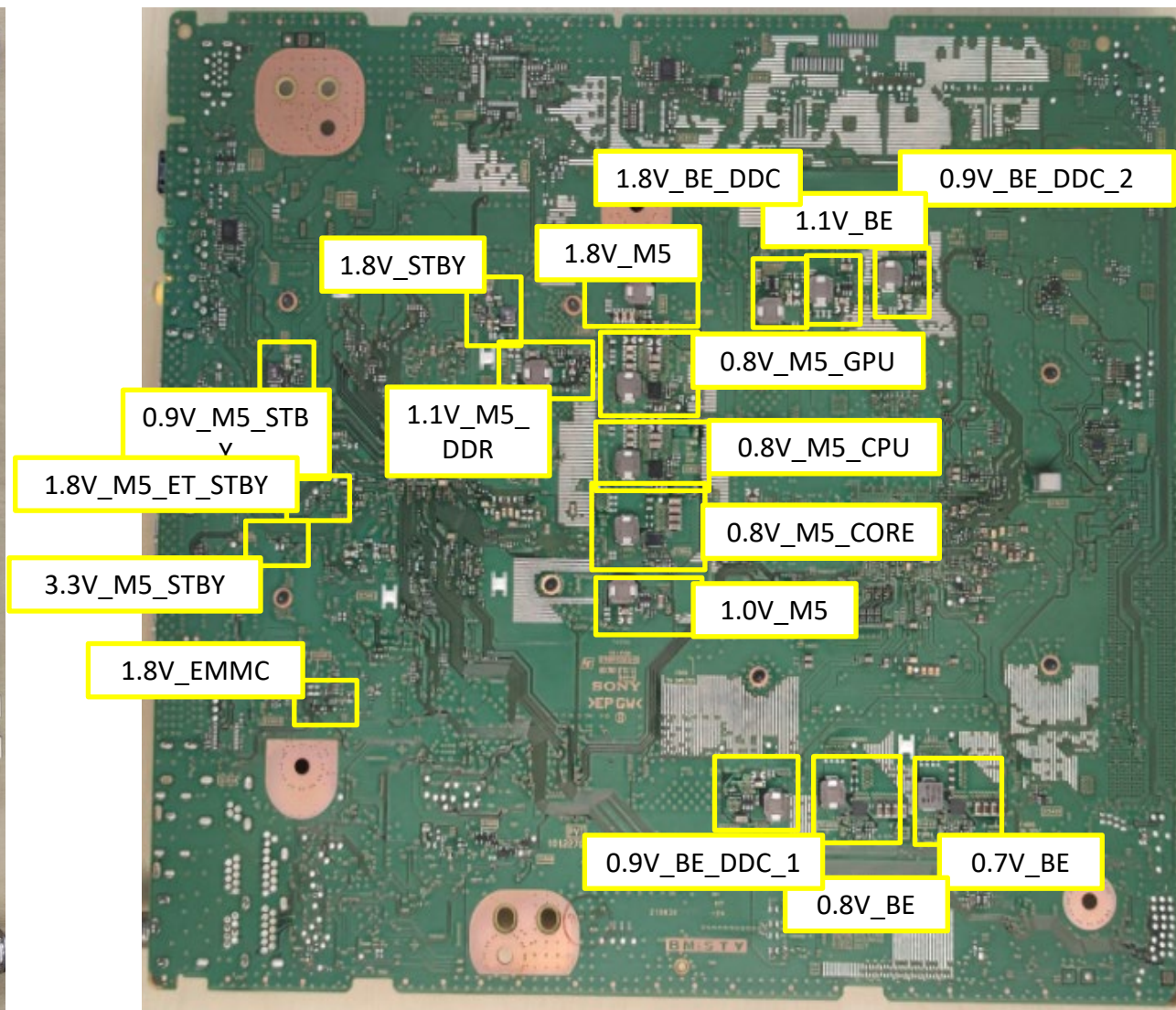
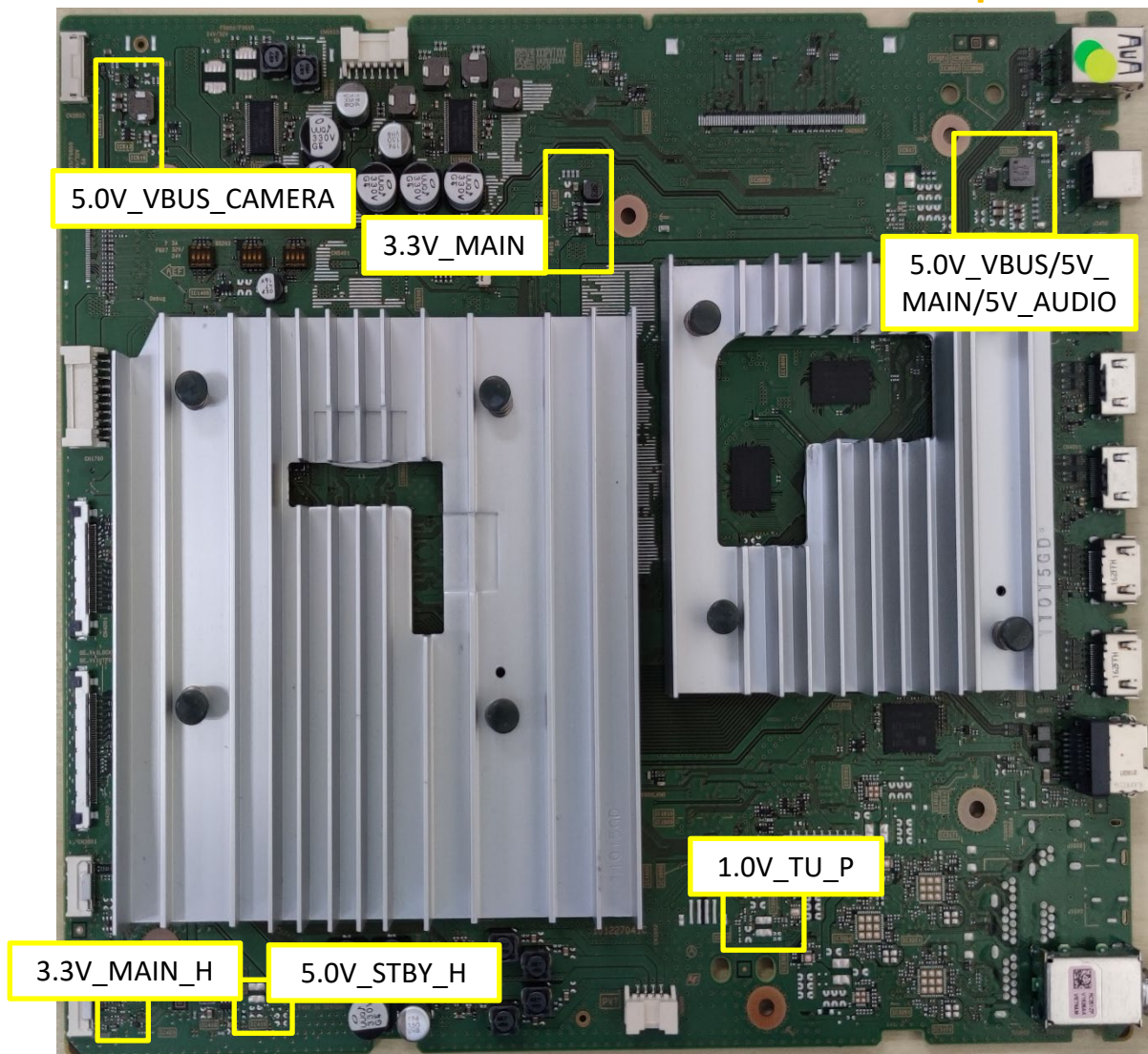
Board	Operation	IC Ref	Voltage supply
BM5S21	DC/DC	IC418	5.0V_STBY_H
	LDO	IC403	3.3V_MAIN_H
	LDO	IC806	1.8V_M5_ET_STBY
	LDO	IC809	3.3V_M5_STBY

# TROUBLESHOOTING

## Board View

Top Side

B-Side

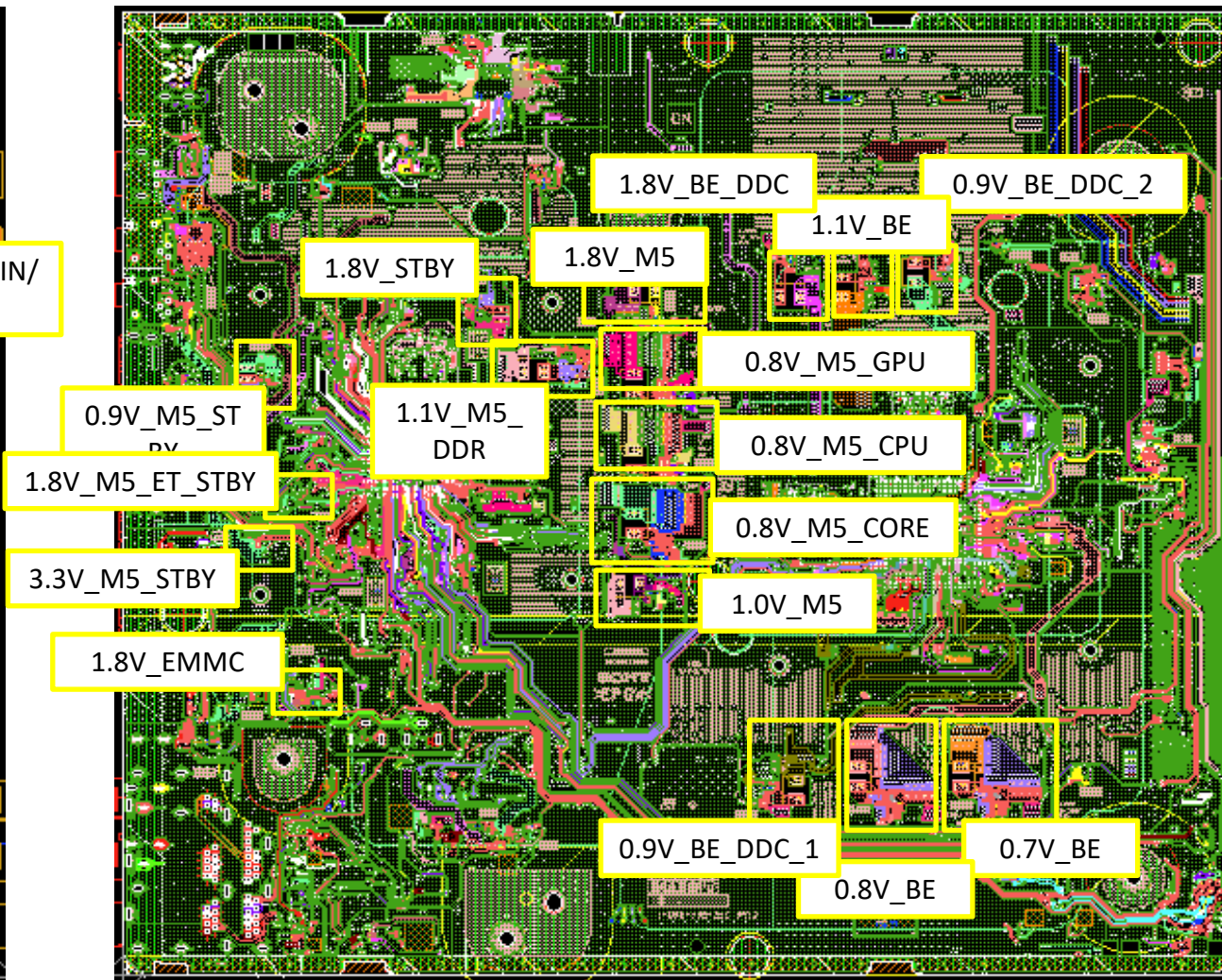
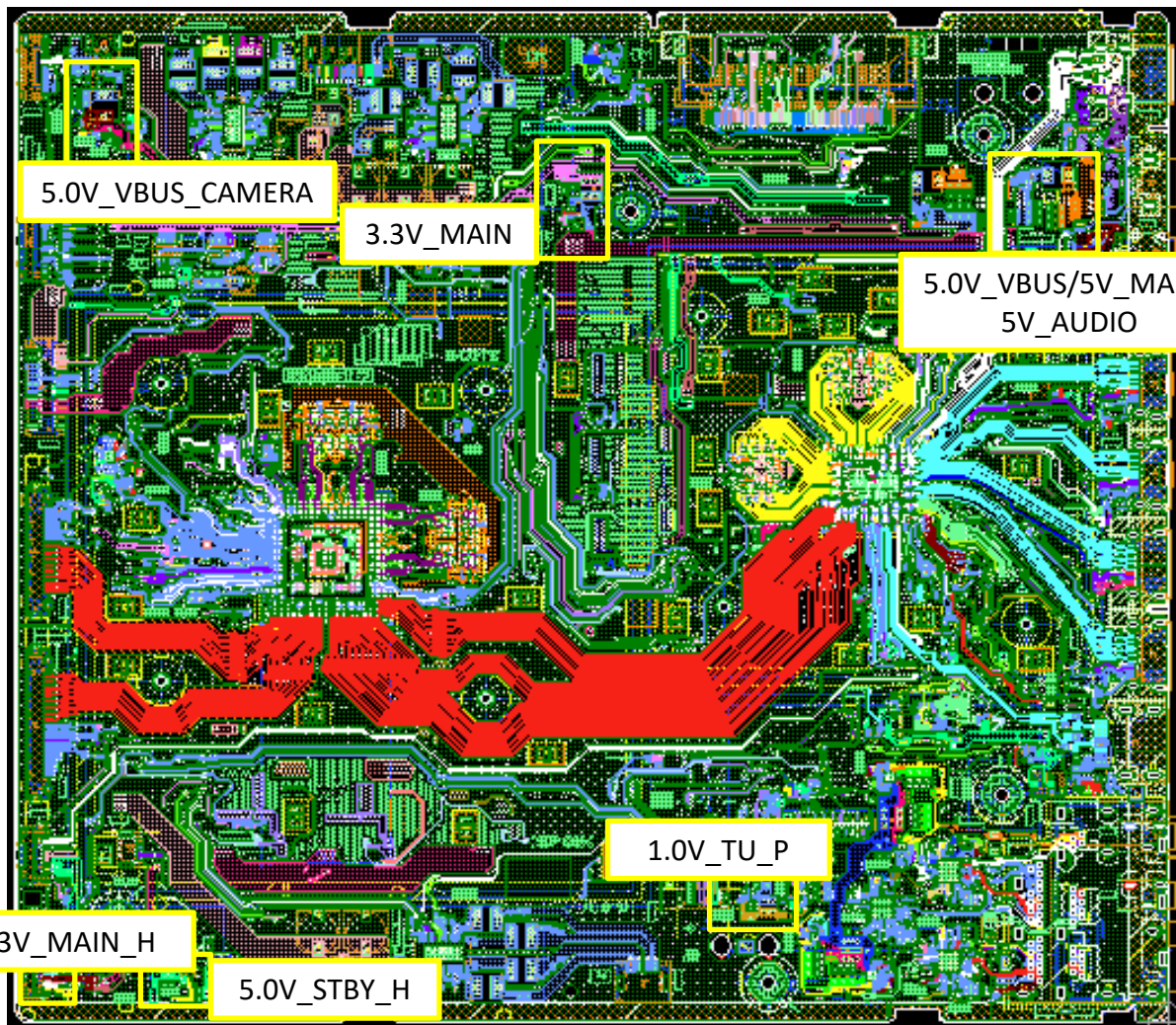


# TROUBLESHOOTING

## Board View

Top Side

B-Side

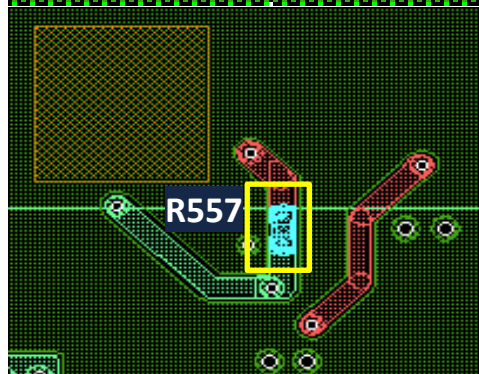
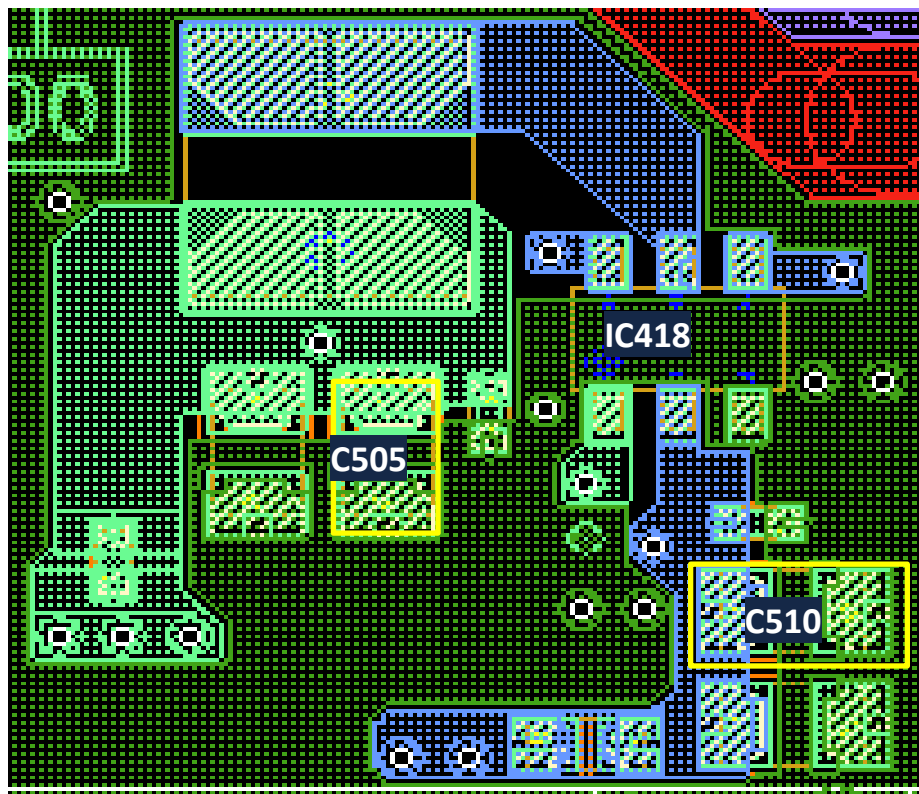


# TROUBLESHOOTING

## Checking Point

5.0V\_STBY\_H

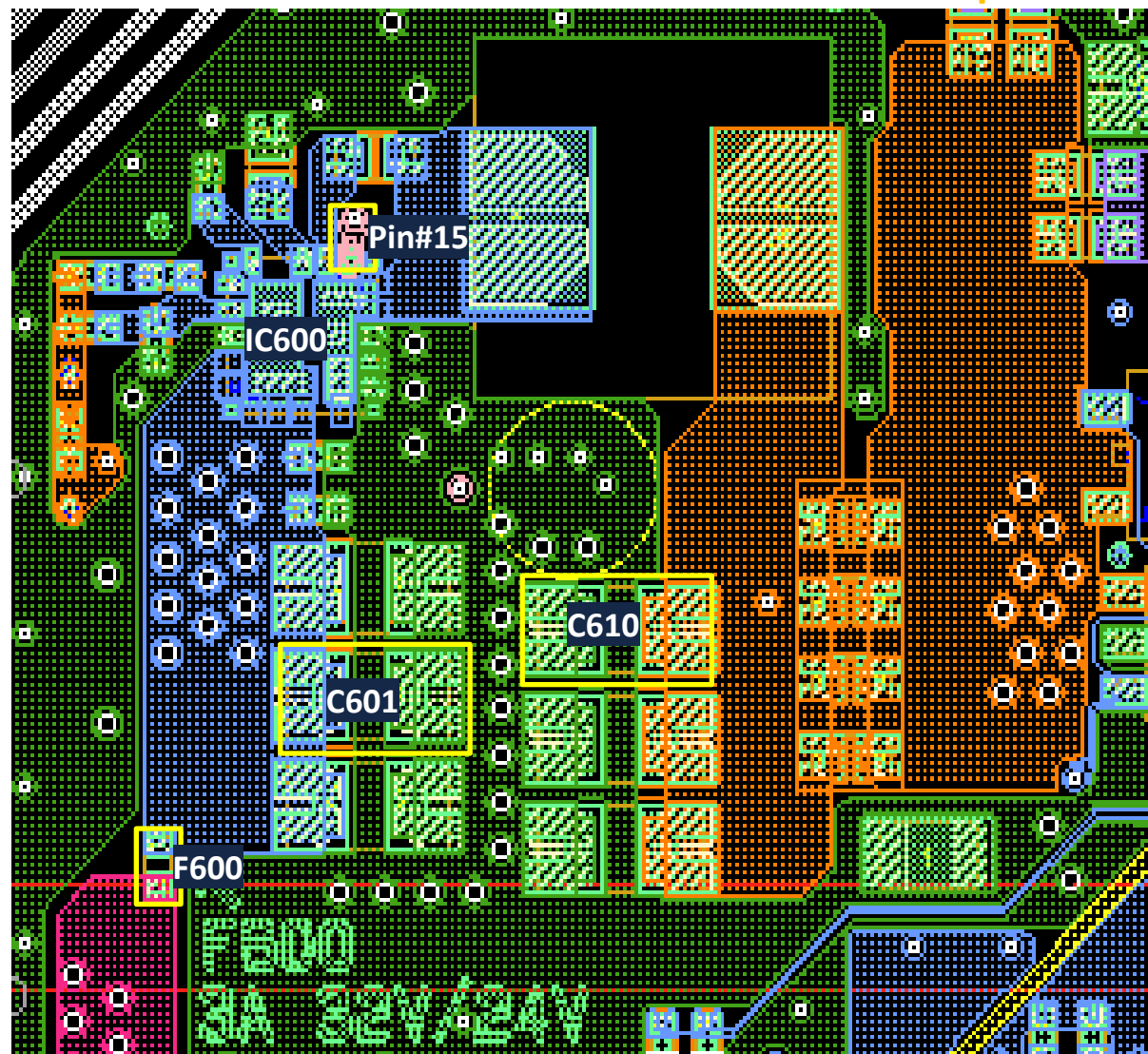
A-Side



B-Side

5.0V\_VBUS/5V\_MAIN/5V\_AUDIO

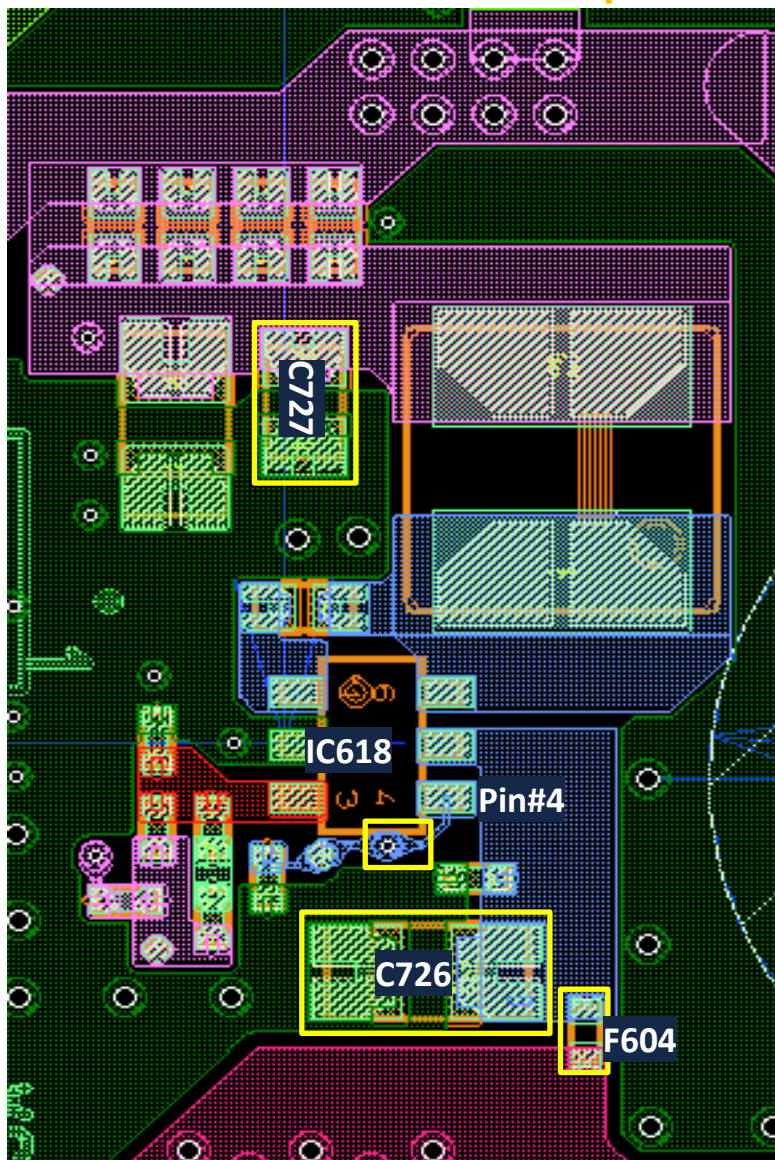
Top Side



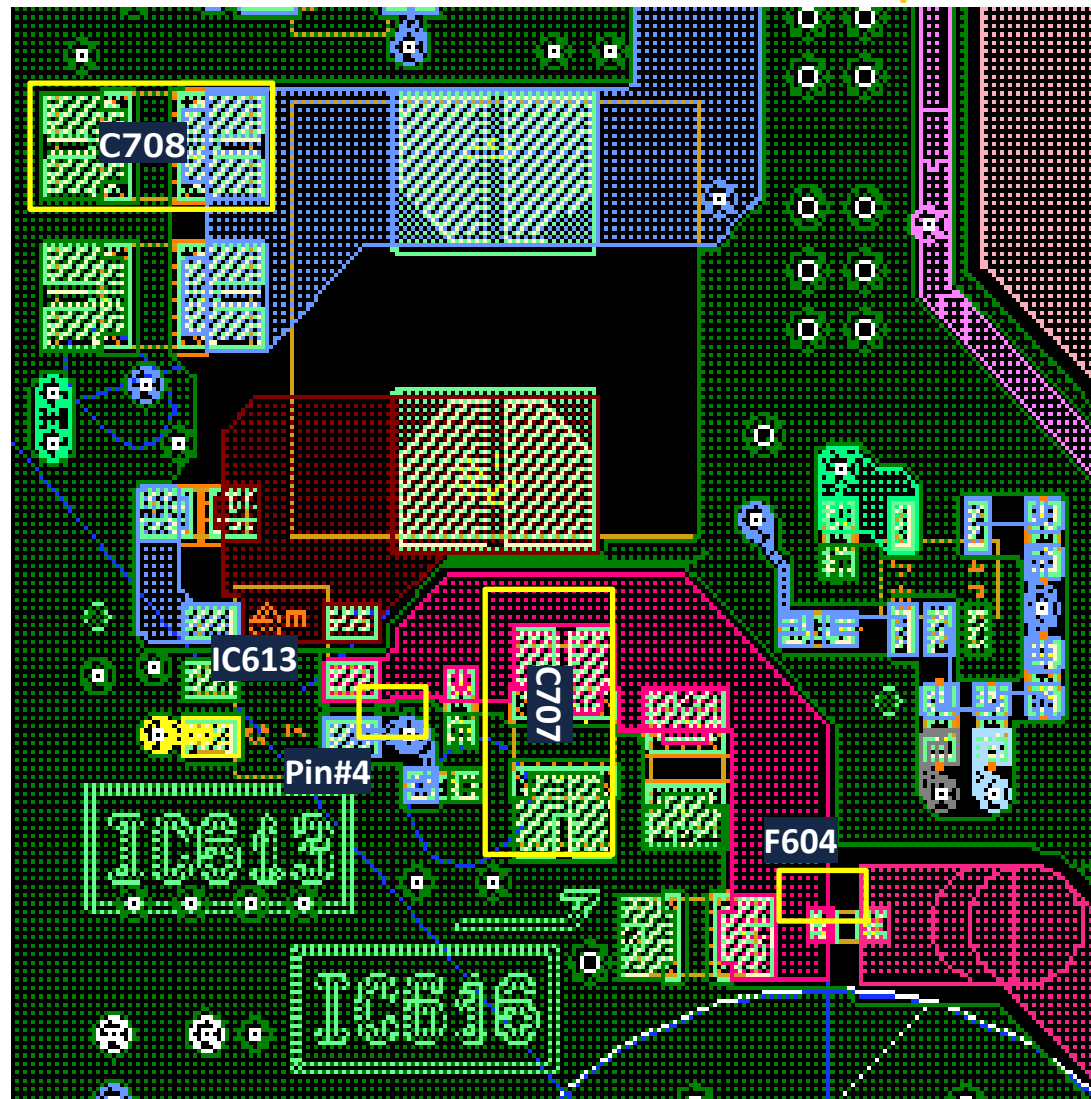
# TROUBLESHOOTING

## Checking Point

3.3V\_MAIN Top Side



5.0V\_VBUS\_CAMERA Top Side



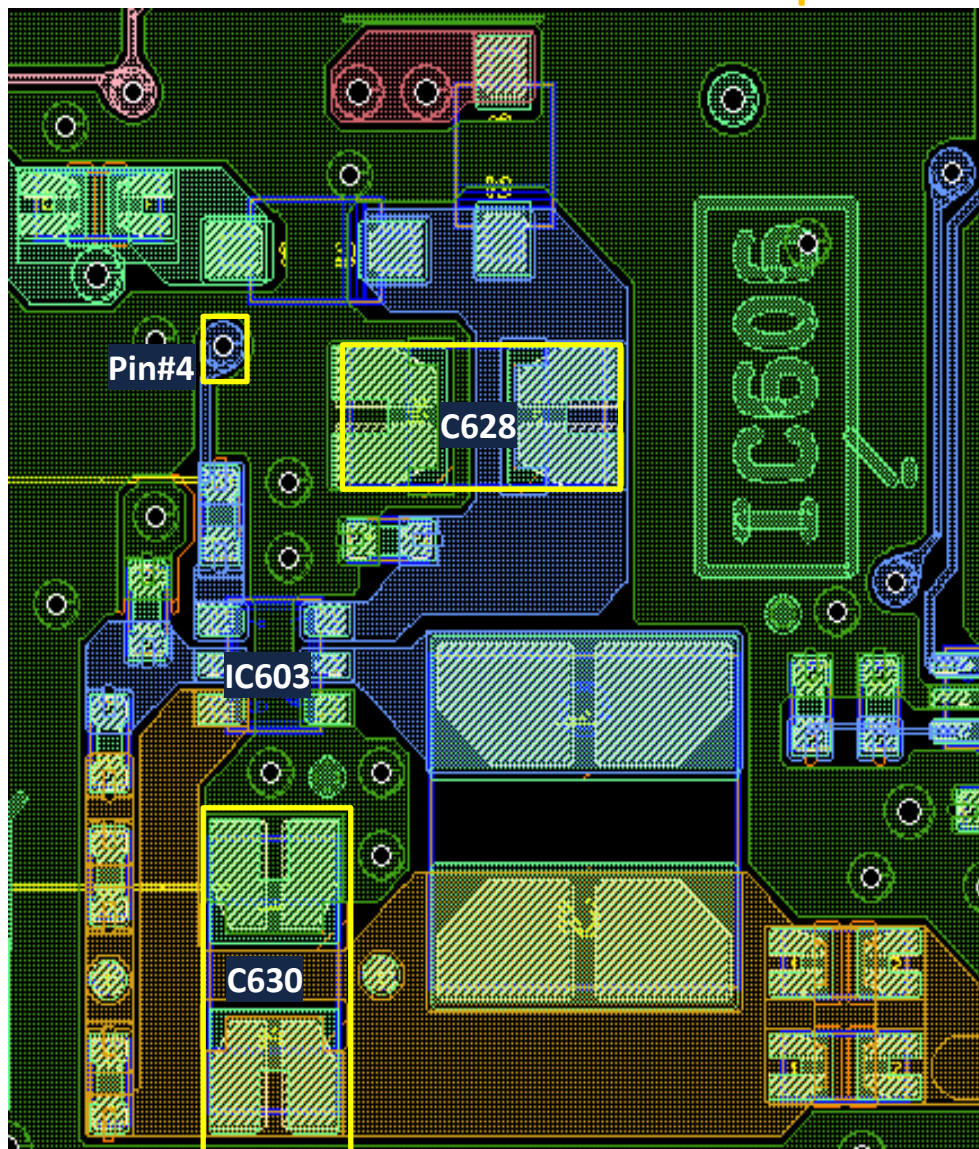


# TROUBLESHOOTING

## Checking Point

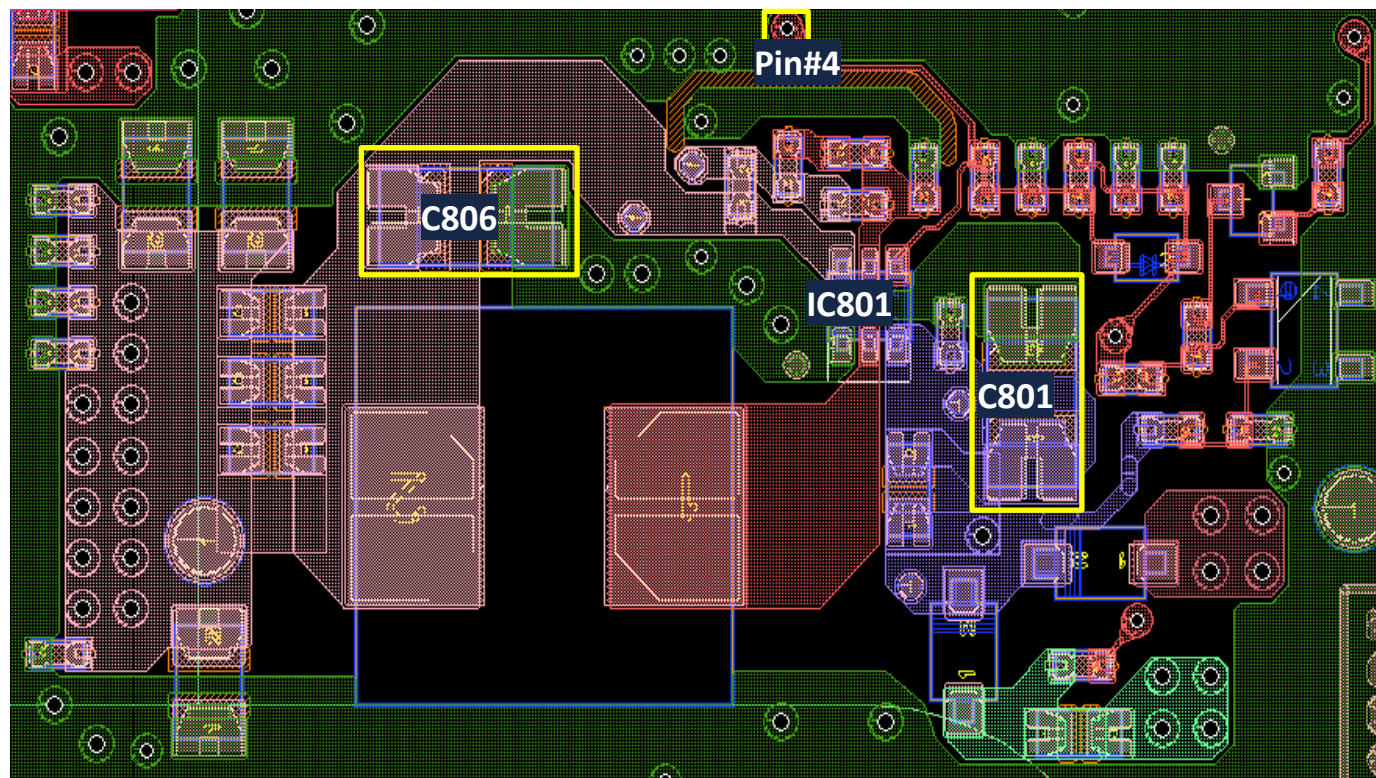
1.0V\_TU\_P

Top Side



1.1V\_M5\_DDR

B-Side

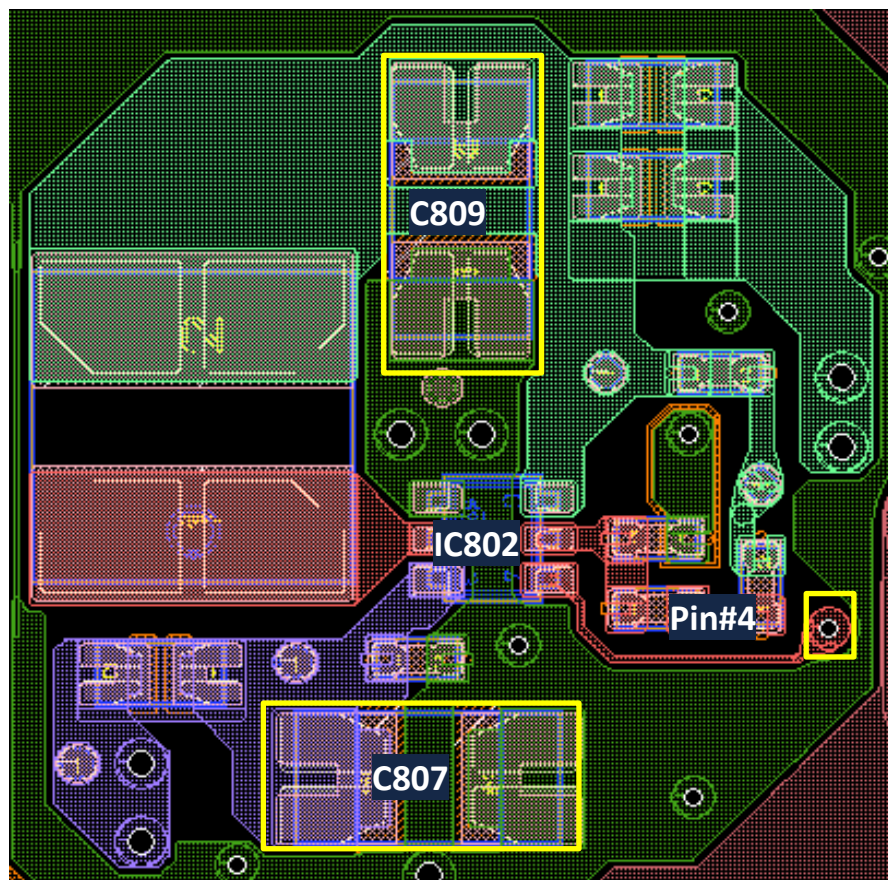


# TROUBLESHOOTING

## Checking Point

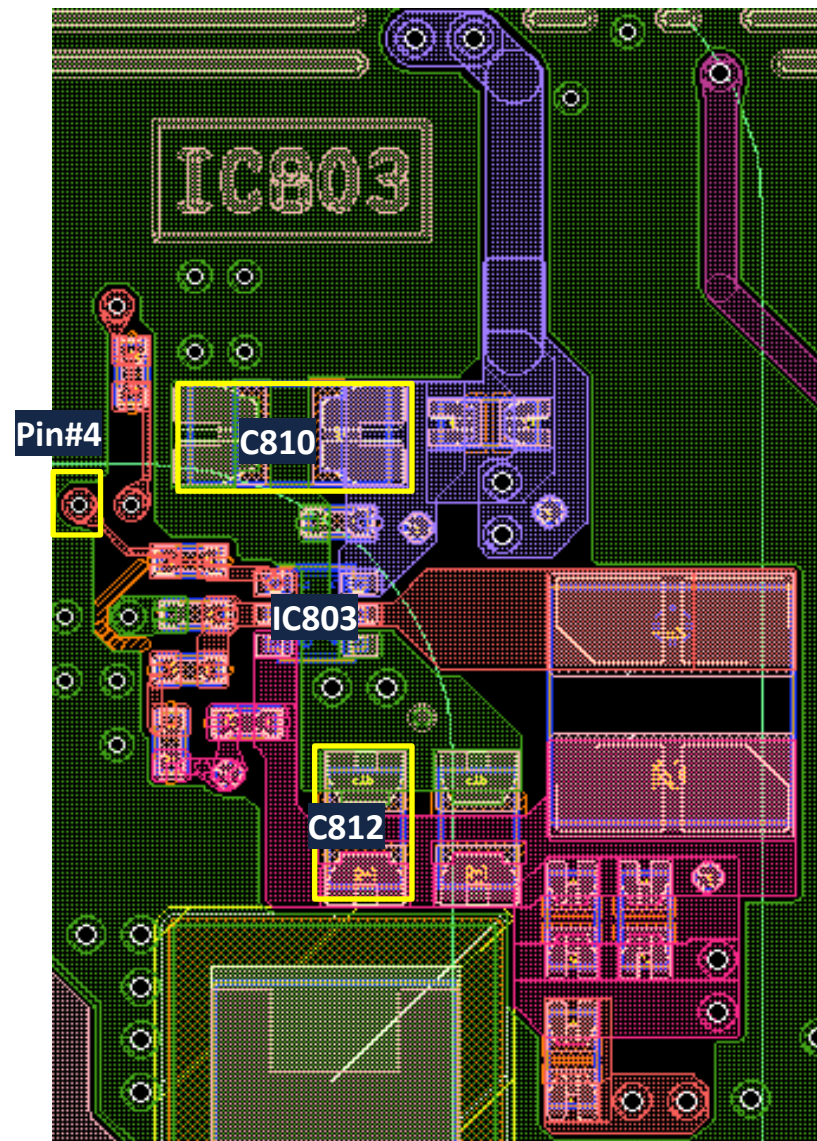
0.9V\_M5\_STBY

B-Side



1.8V\_STBY

B-Side

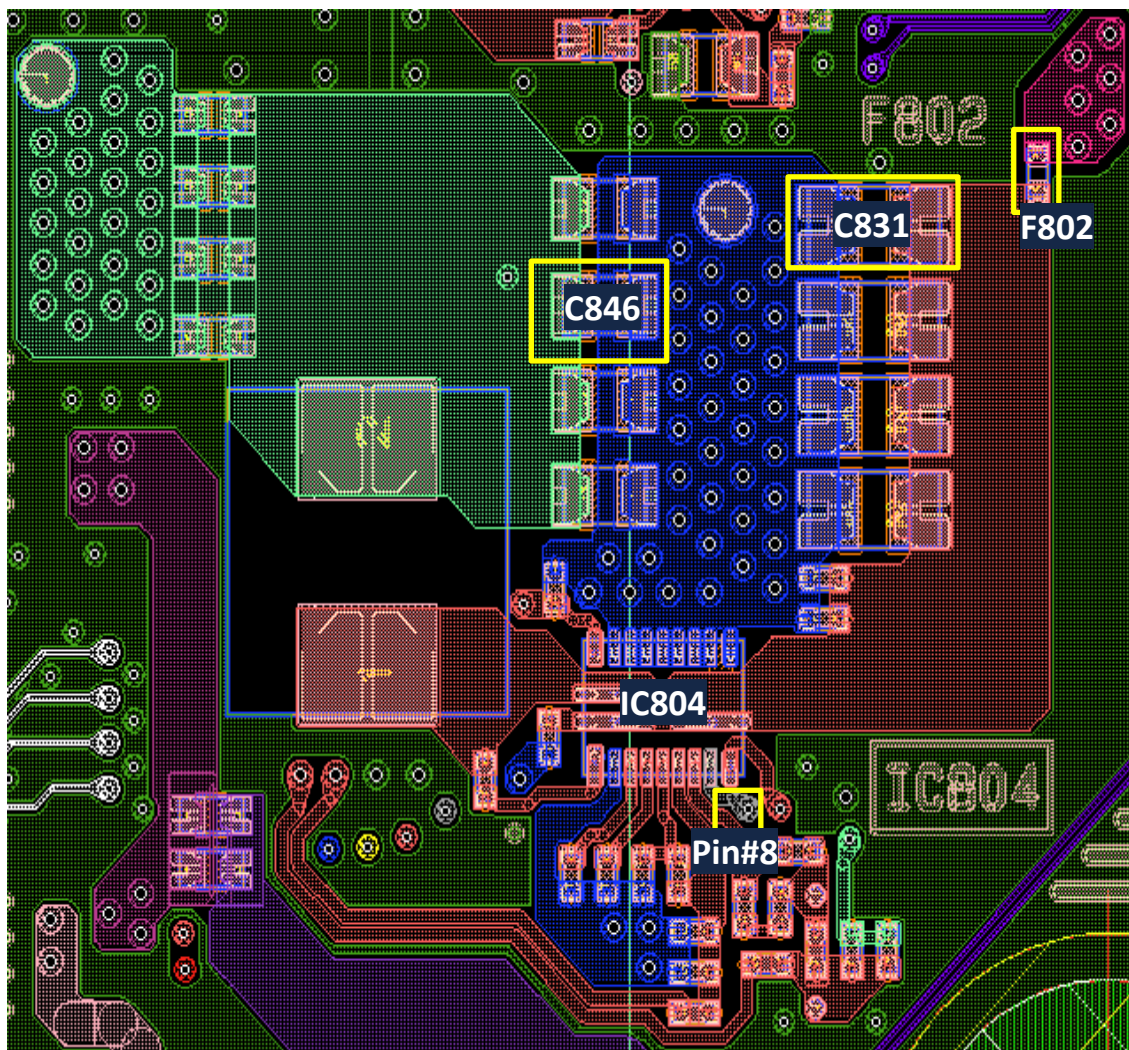


# TROUBLESHOOTING

## Checking Point

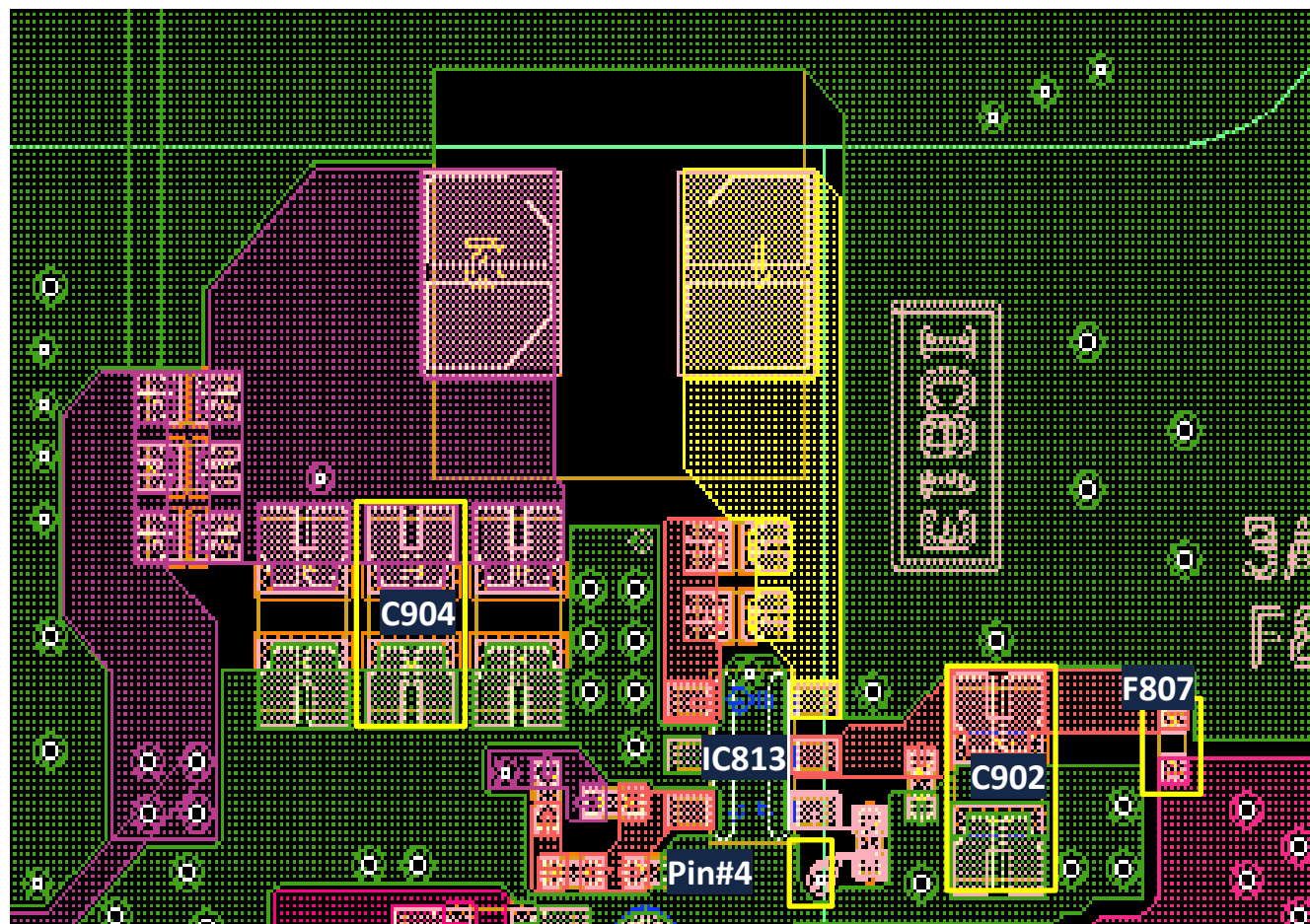
0.8V\_M5\_CORE

B-Side



1.8V\_M5

B-Side

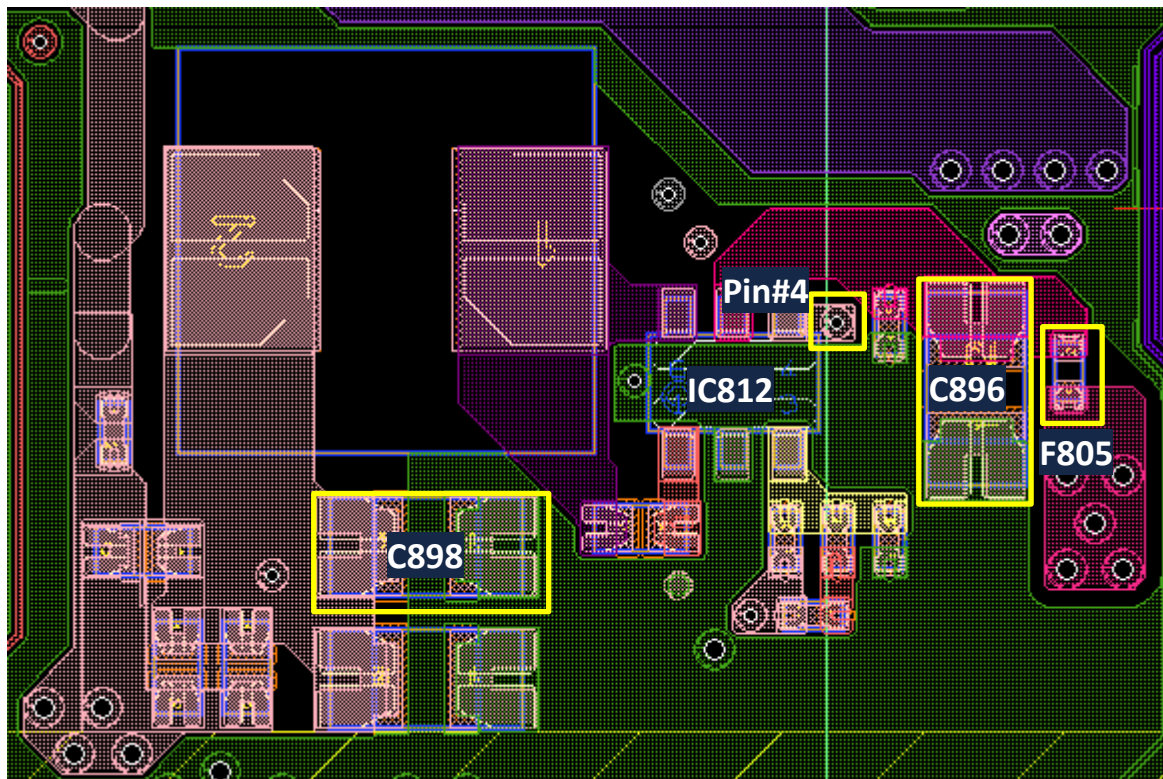


# TROUBLESHOOTING

## Checking Point

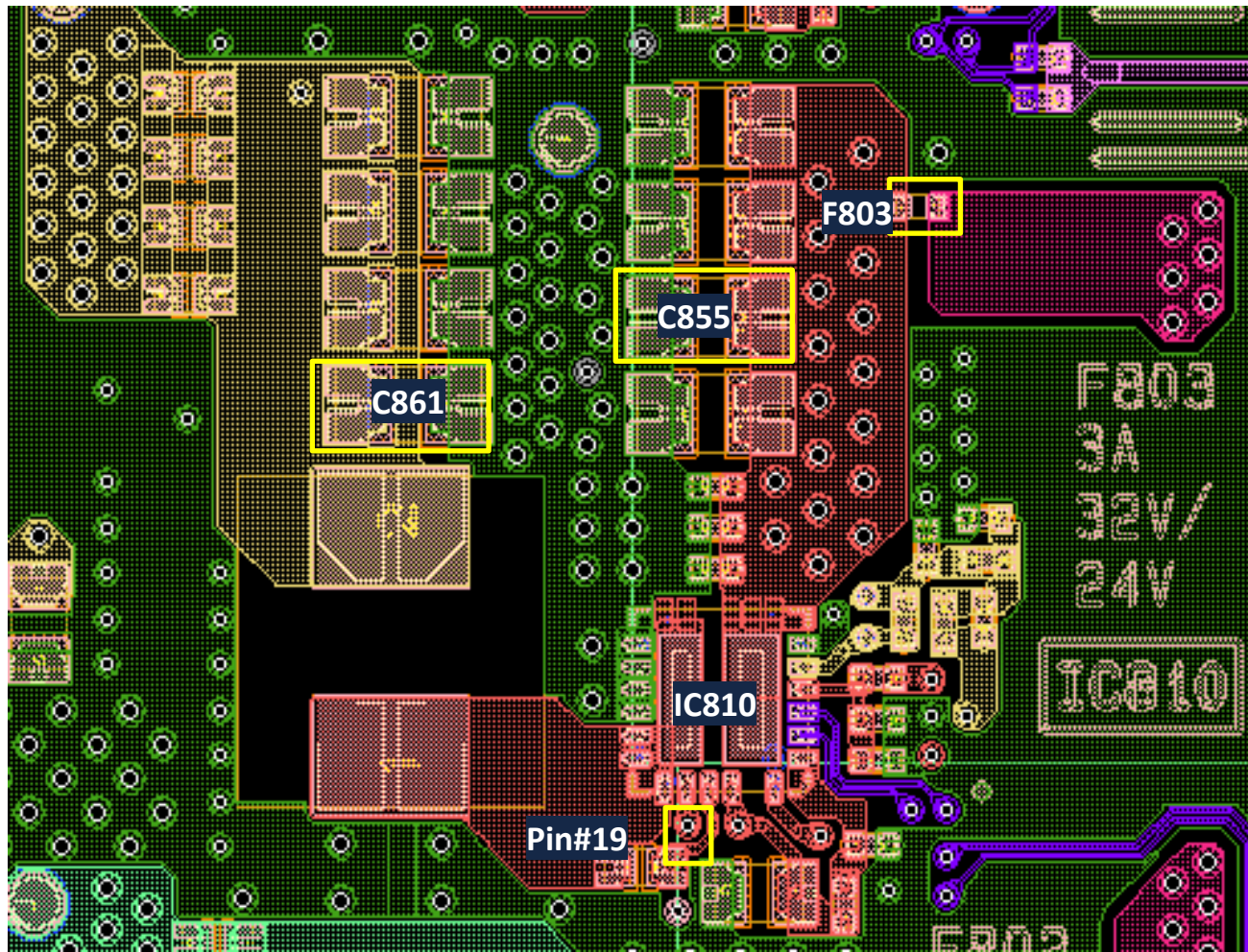
1.0V\_M5

B-Side



0.8V\_M5\_CPU

B-Side

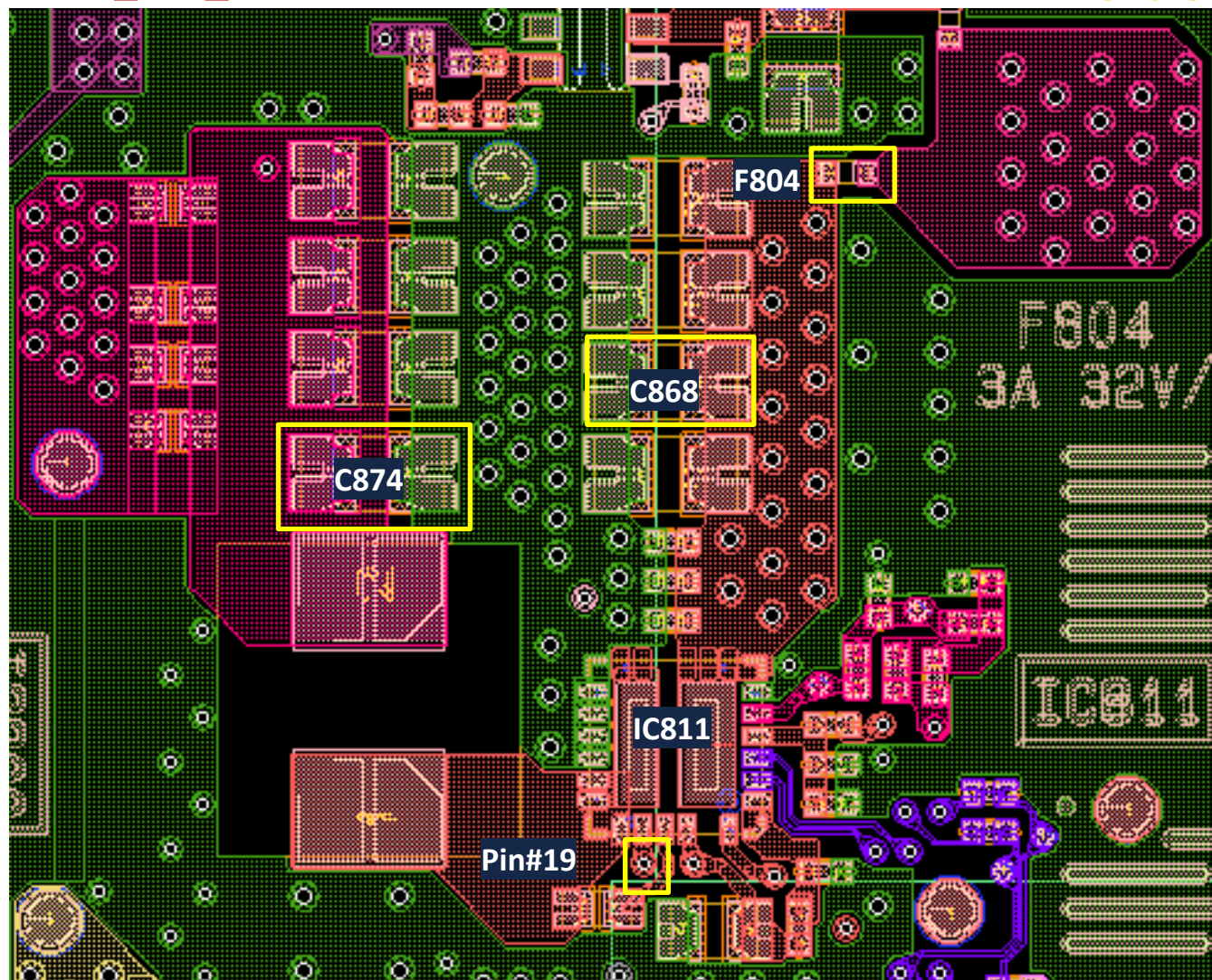


# TROUBLESHOOTING

## Checking Point

0.8V\_M5\_GPU

B-Side

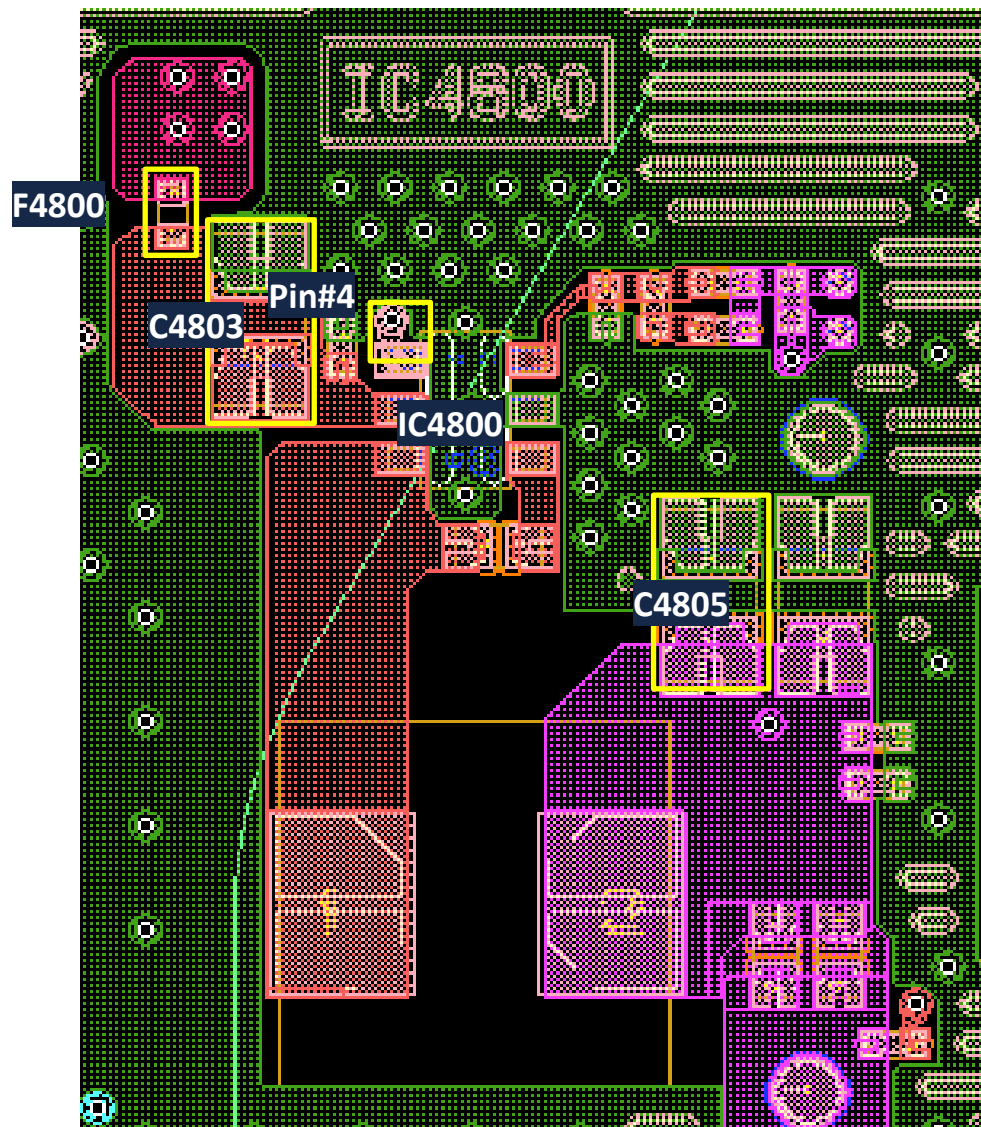


# TROUBLESHOOTING

## Checking Point

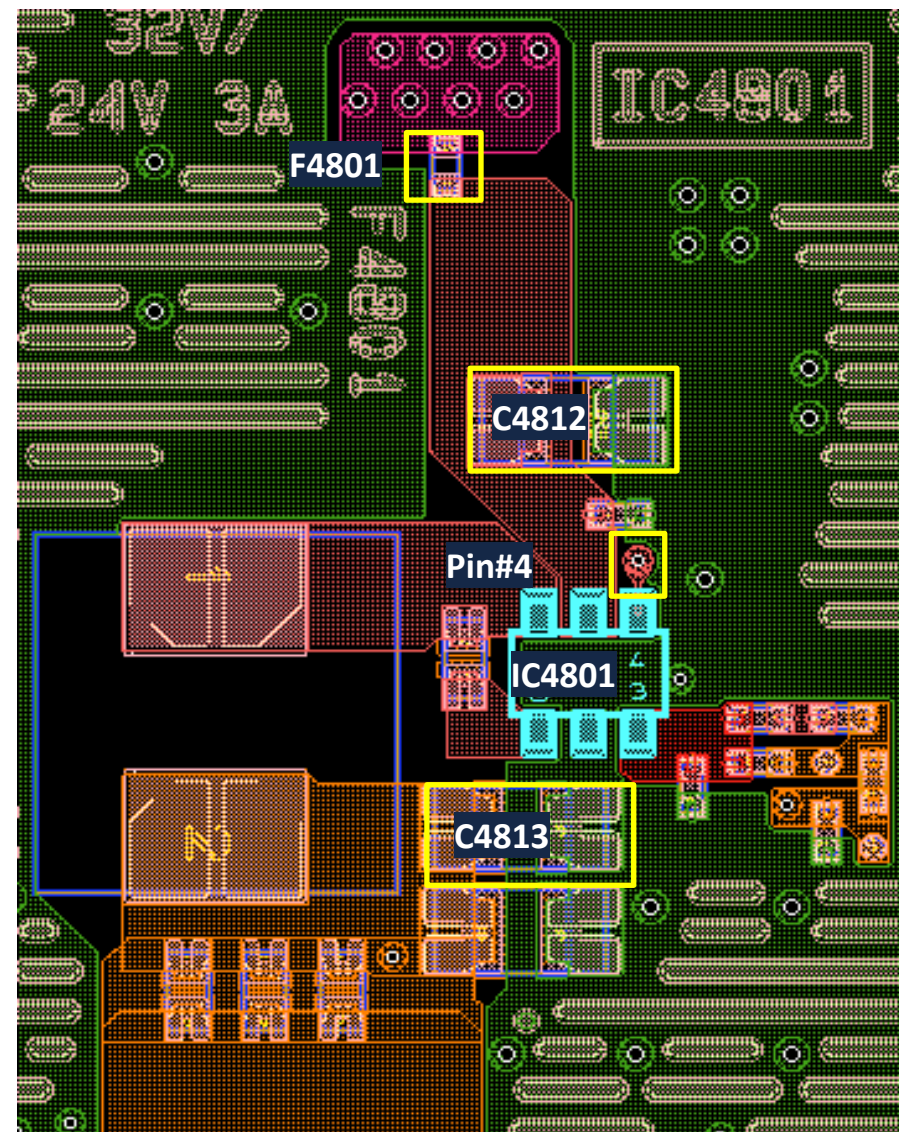
1.8V\_BE\_DDC

B-Side



1.1V\_BE

B-Side

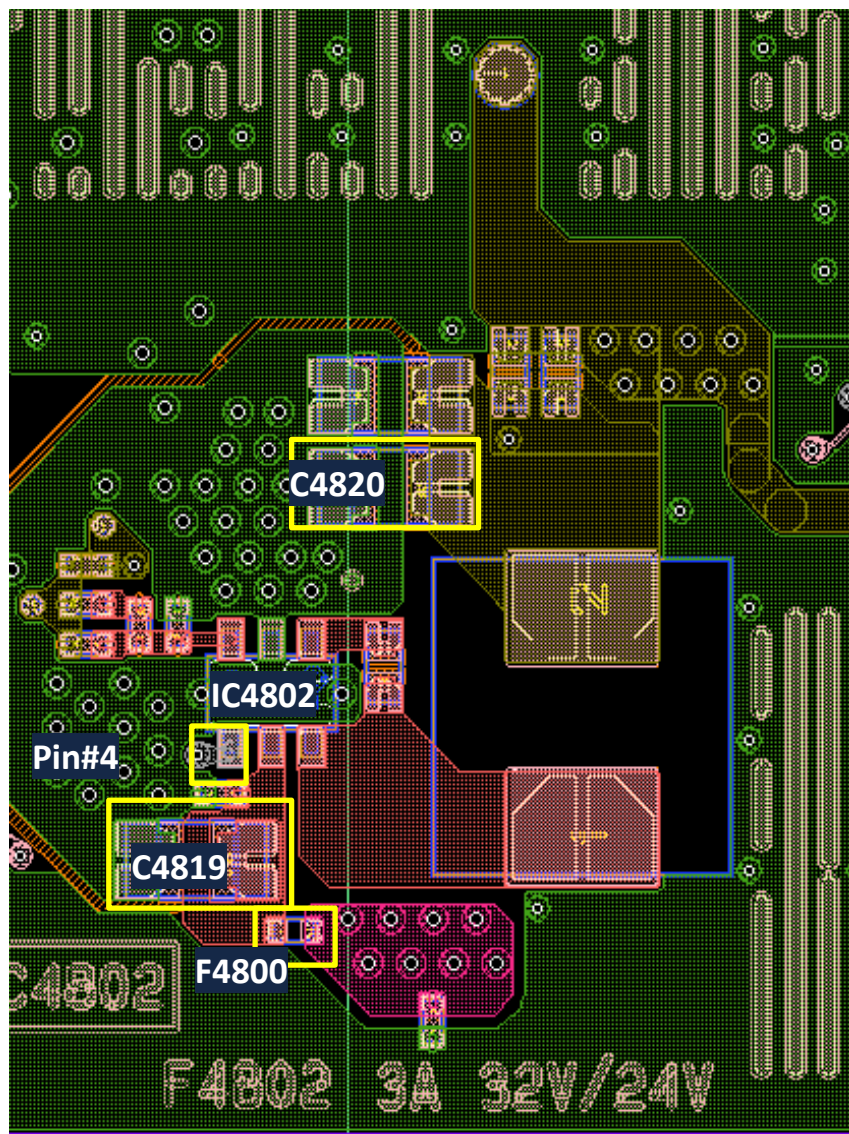


# TROUBLESHOOTING

## Checking Point

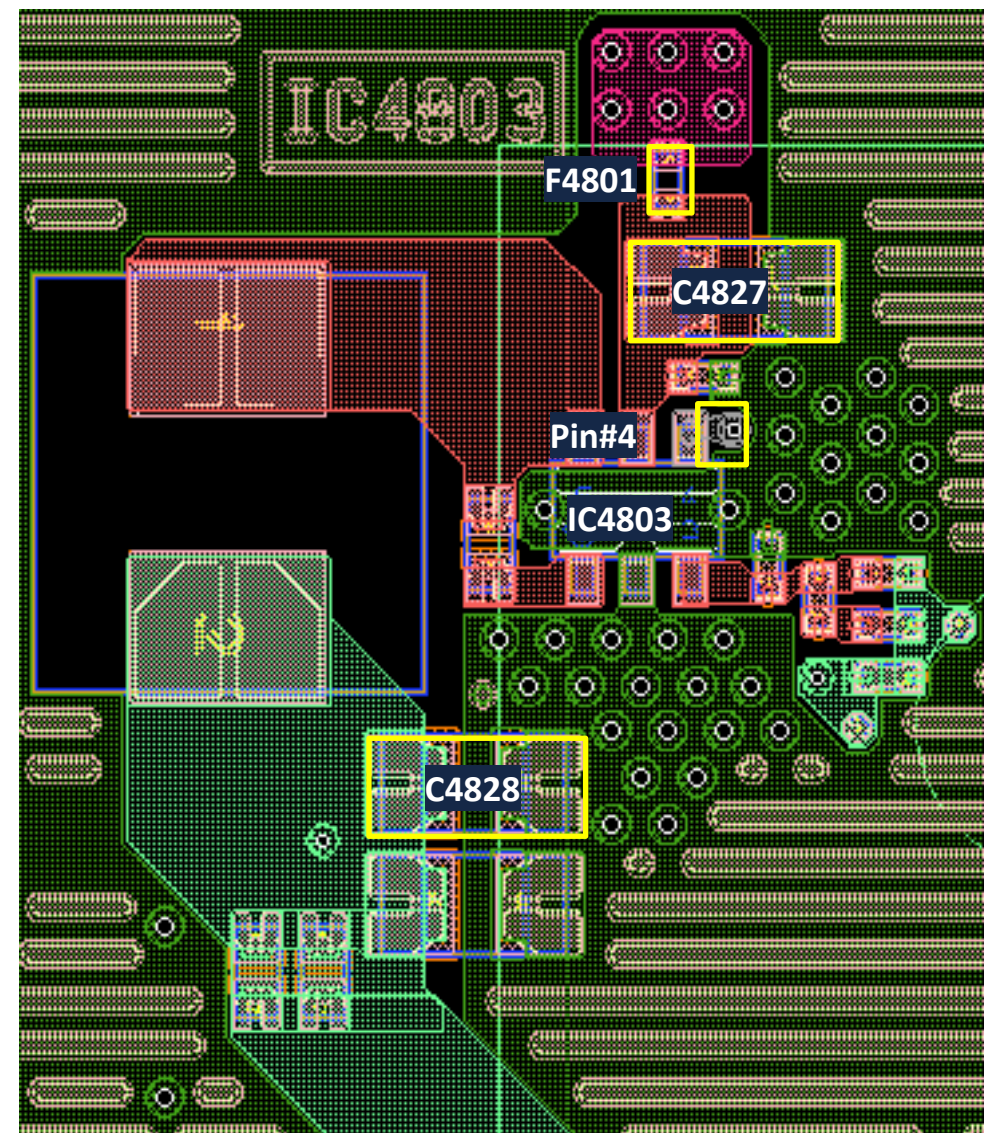
0.9V\_BE\_DDC\_1

B-Side



0.9V\_BE\_DDC\_2

B-Side

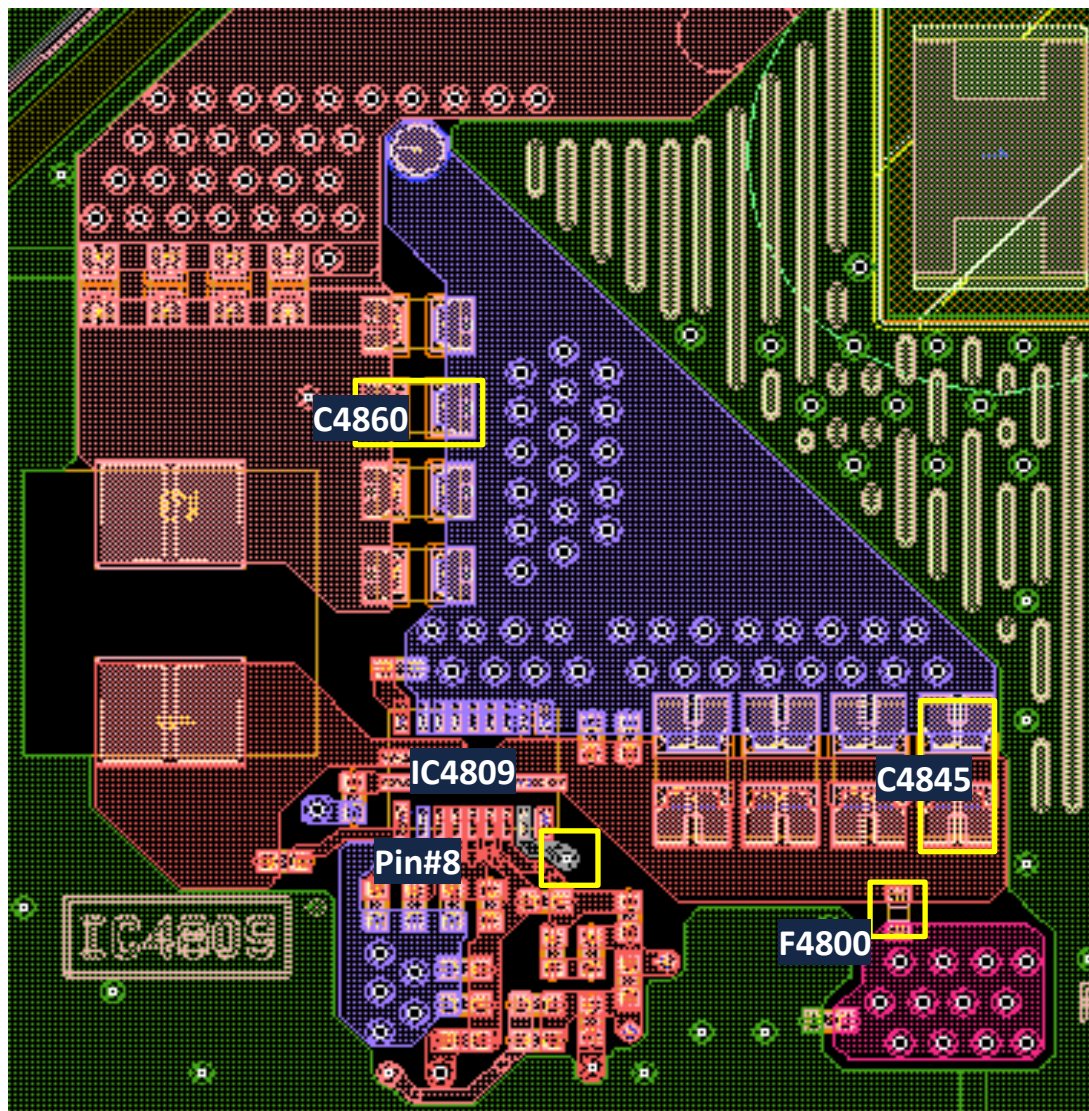


# TROUBLESHOOTING

## Checking Point

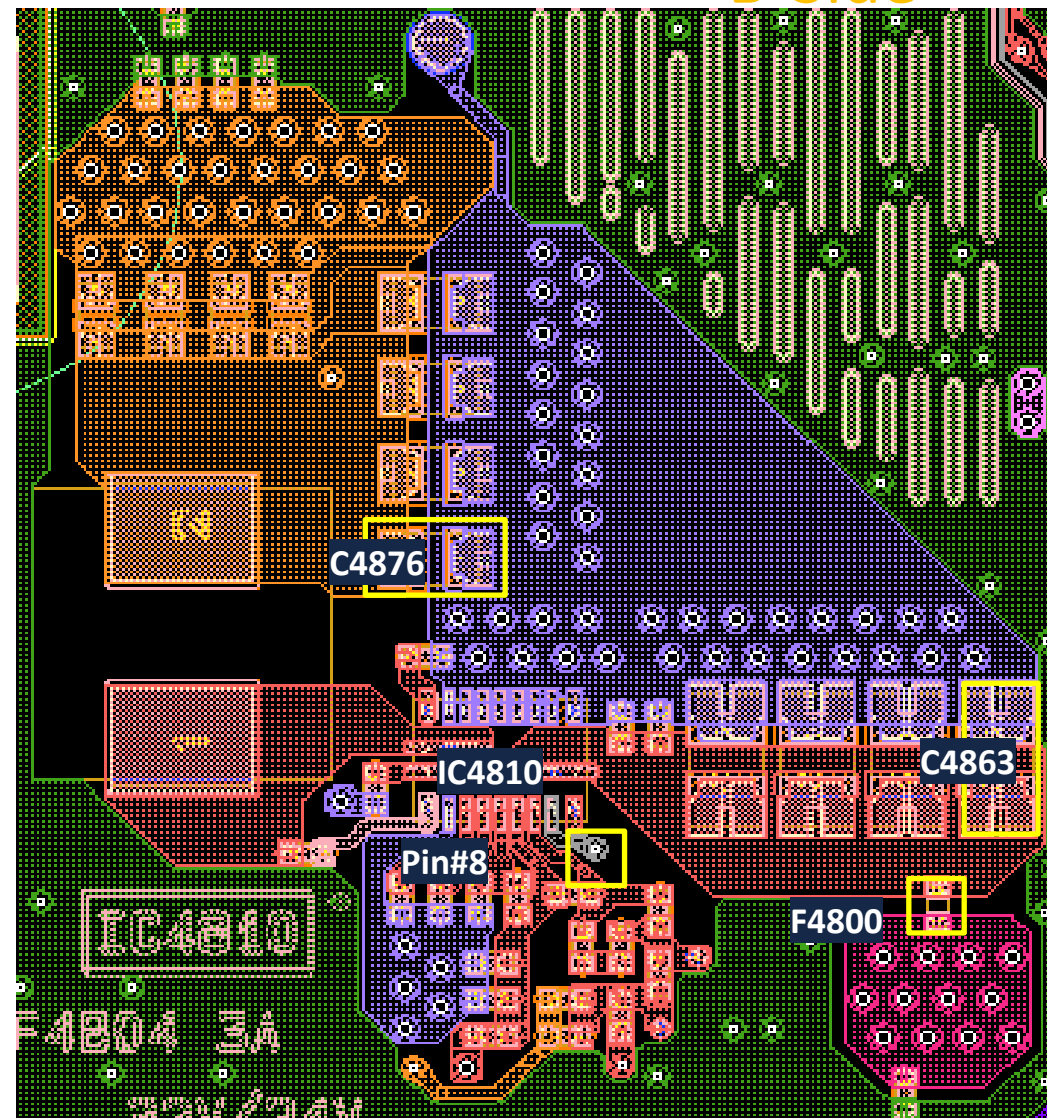
0.8V\_BE

B-Side



0.7V\_BE

B-Side



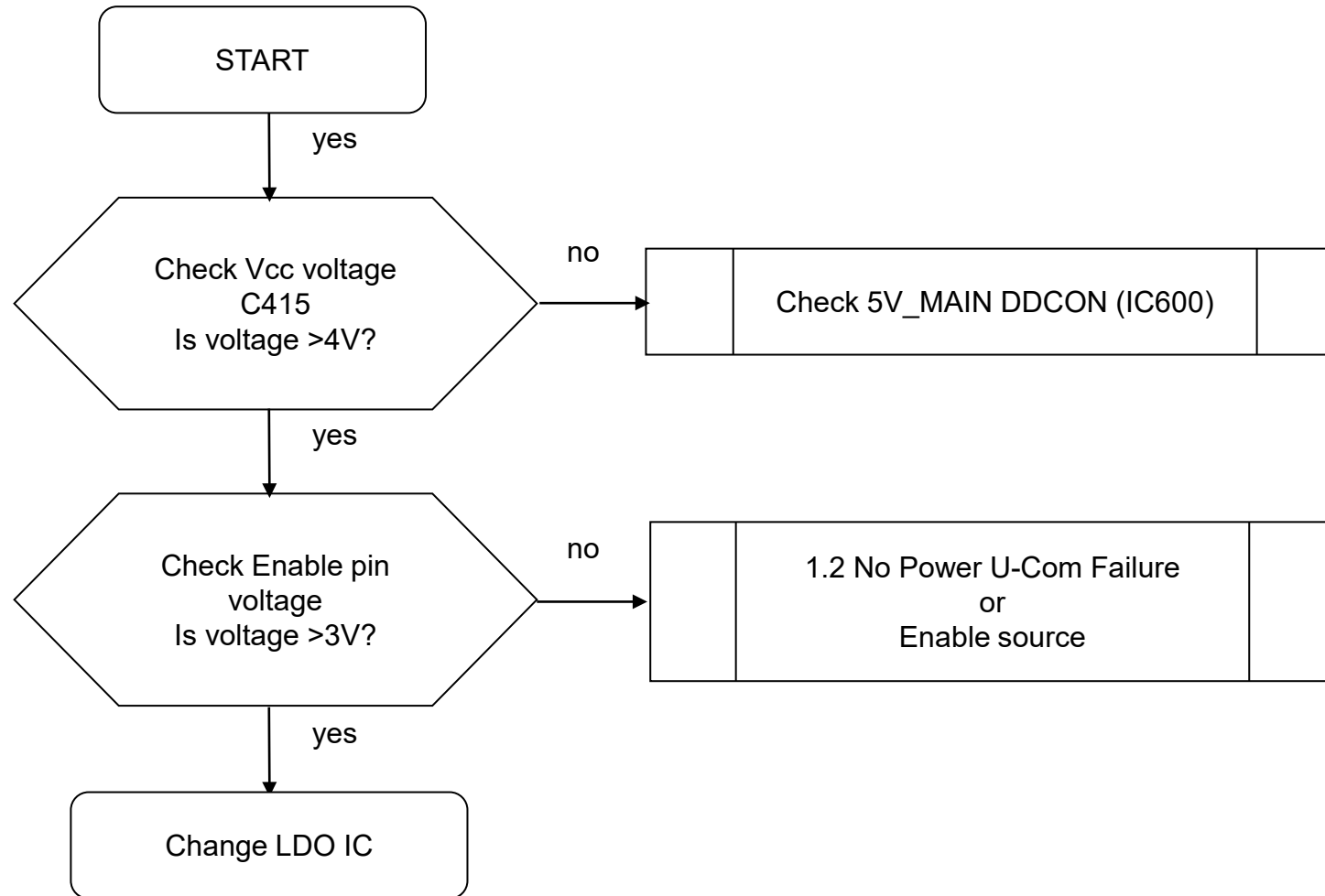


## TROUBLESHOOTING

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

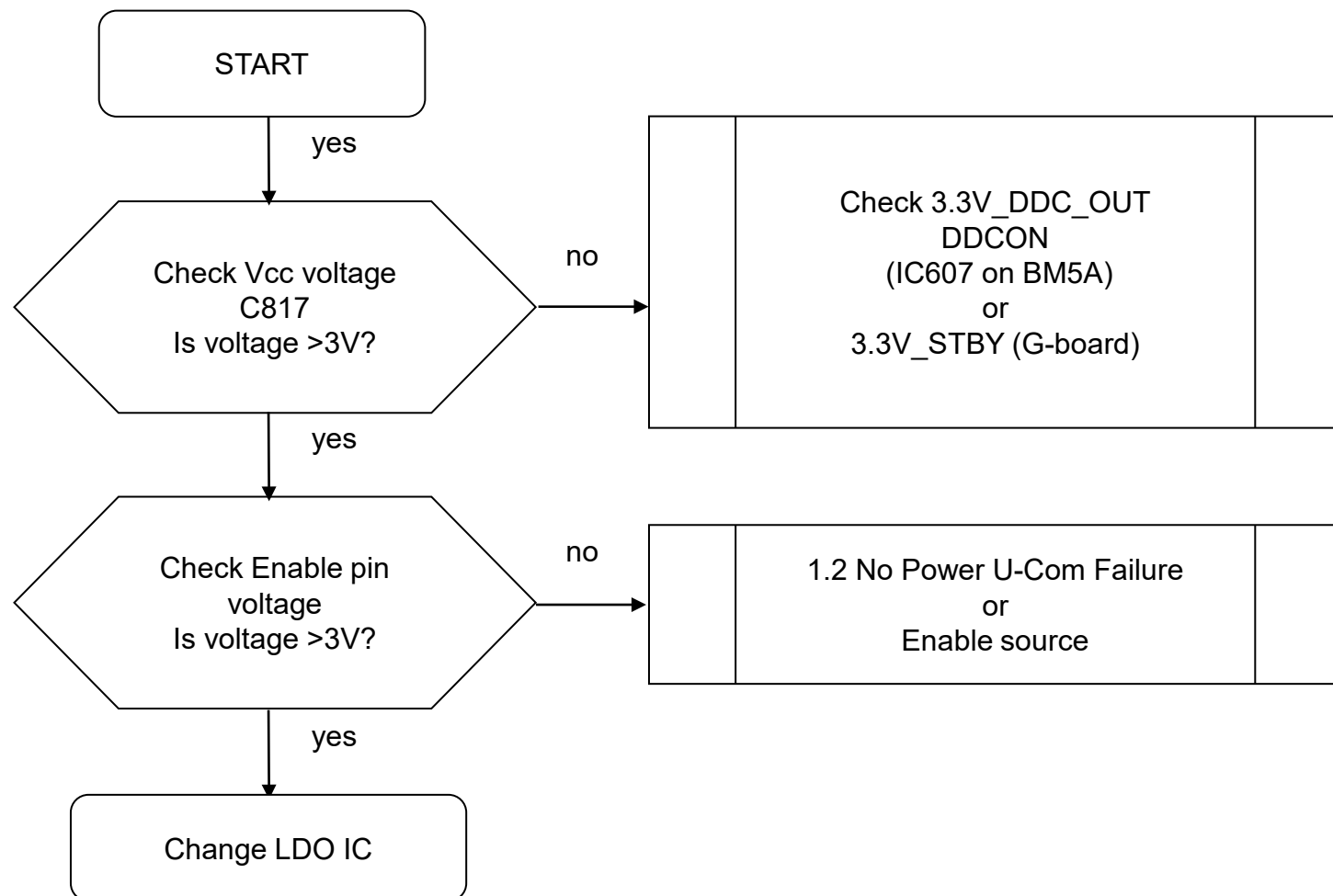
Please Refer page 30 for Ref Number.

Board	Operation	IC Ref	Voltage supply
BM5STY	LDO	IC403	3.3V_MAIN_H



## TROUBLESHOOTING

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

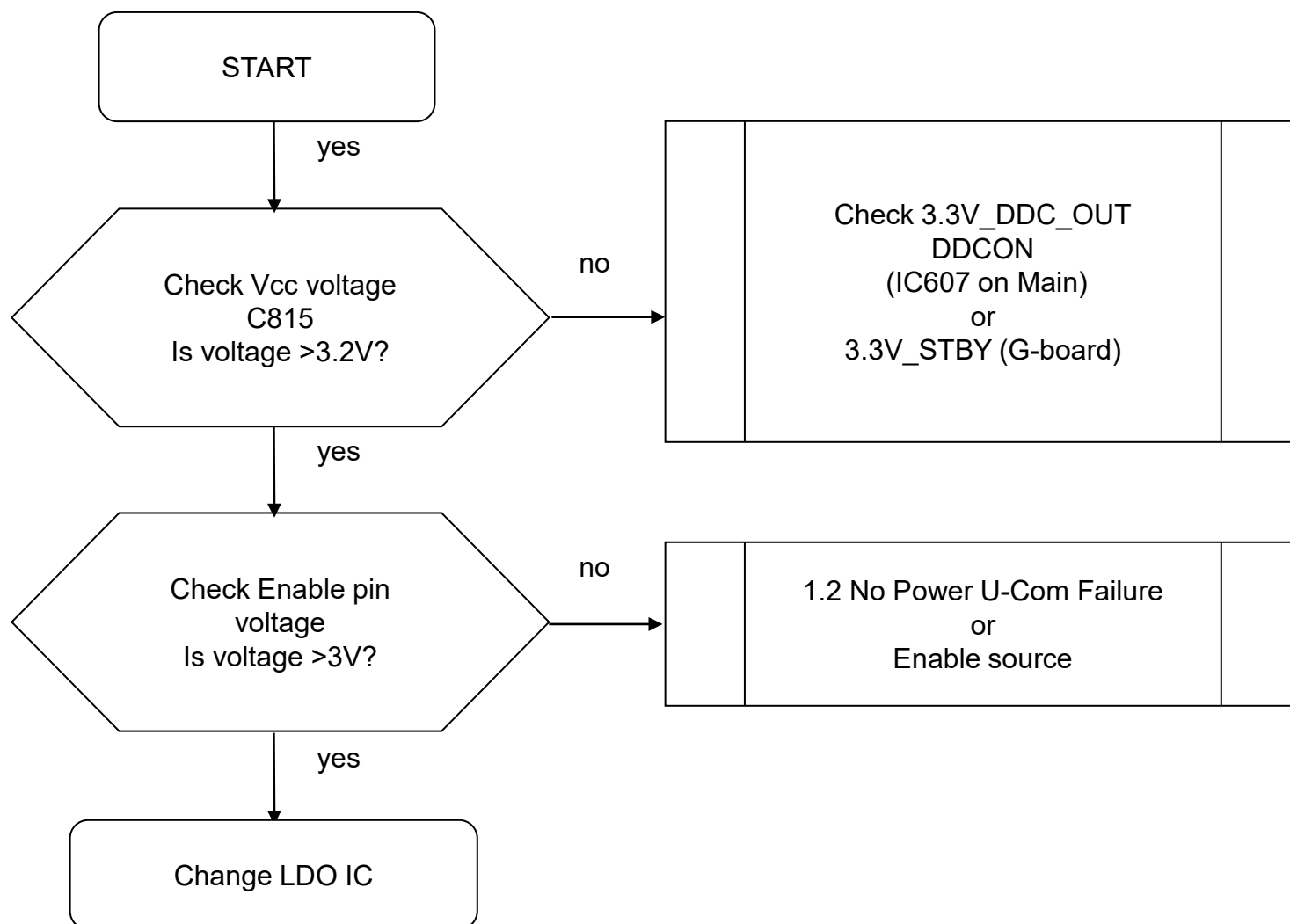


Please Refer page 30 for Ref Number.

Board	Operation	IC Ref	Voltage supply
BM5STY	LDO	IC806	1.8V_M5_ET_STBY

## TROUBLESHOOTING

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



Please Refer page 30 for Ref Number.

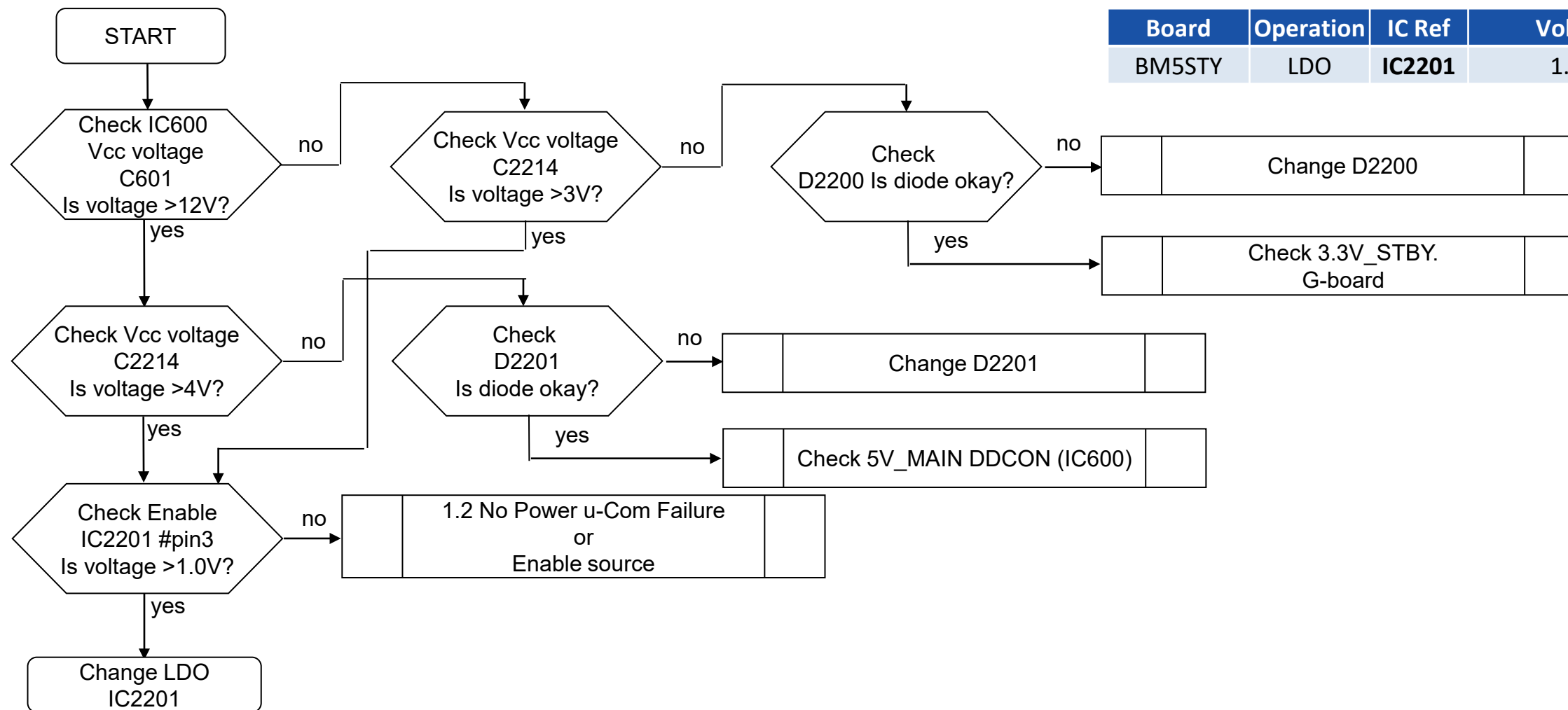
Board	Operation	IC Ref	Voltage supply
BM5STY	LDO	IC809	3.3V_M5_STBY

# TROUBLESHOOTING

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

Please Refer page 30 for Ref Number.

Board	Operation	IC Ref	Voltage supply
BM5STY	LDO	IC2201	1.8V_EMMC

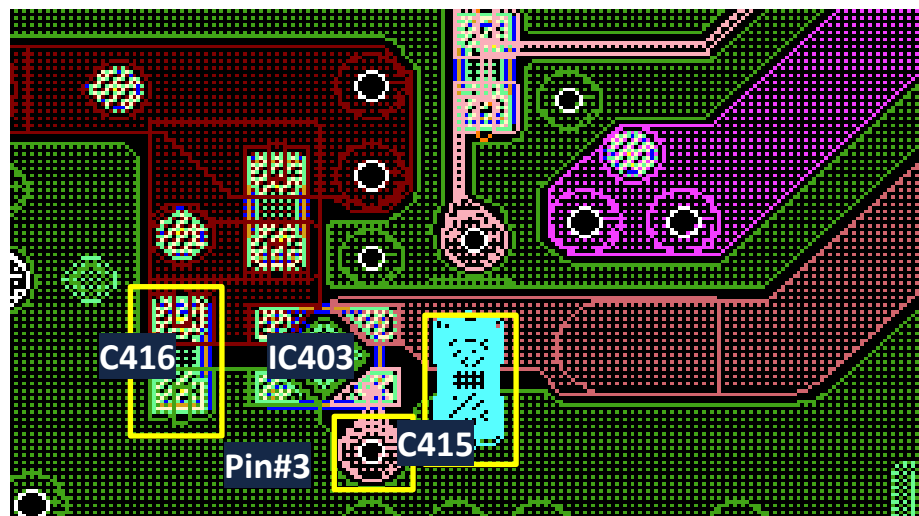


# TROUBLESHOOTING

## Checking Point

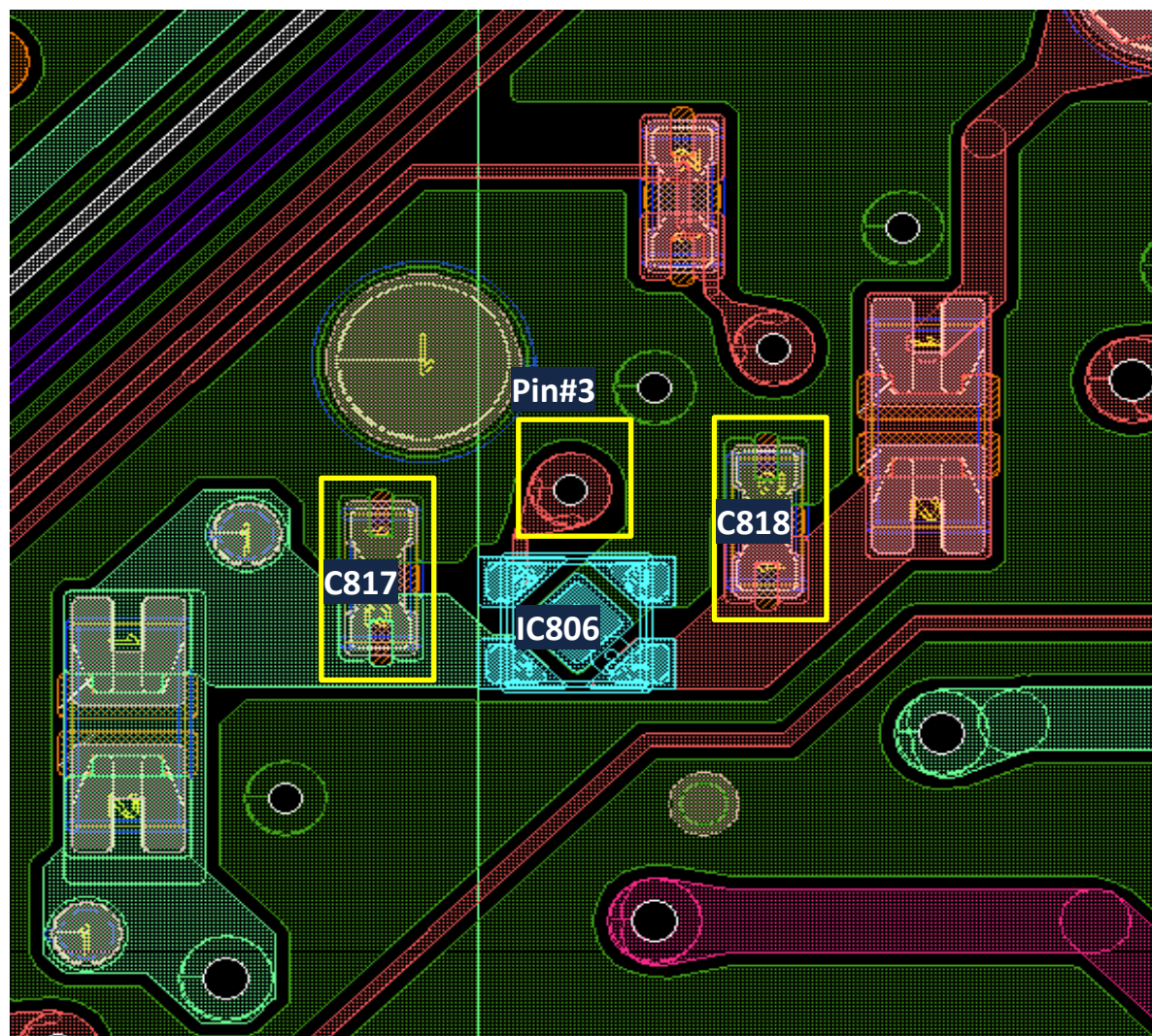
3.3V\_MAIN\_H

B-Side



1.8V\_M5\_ET\_STBY

B-Side

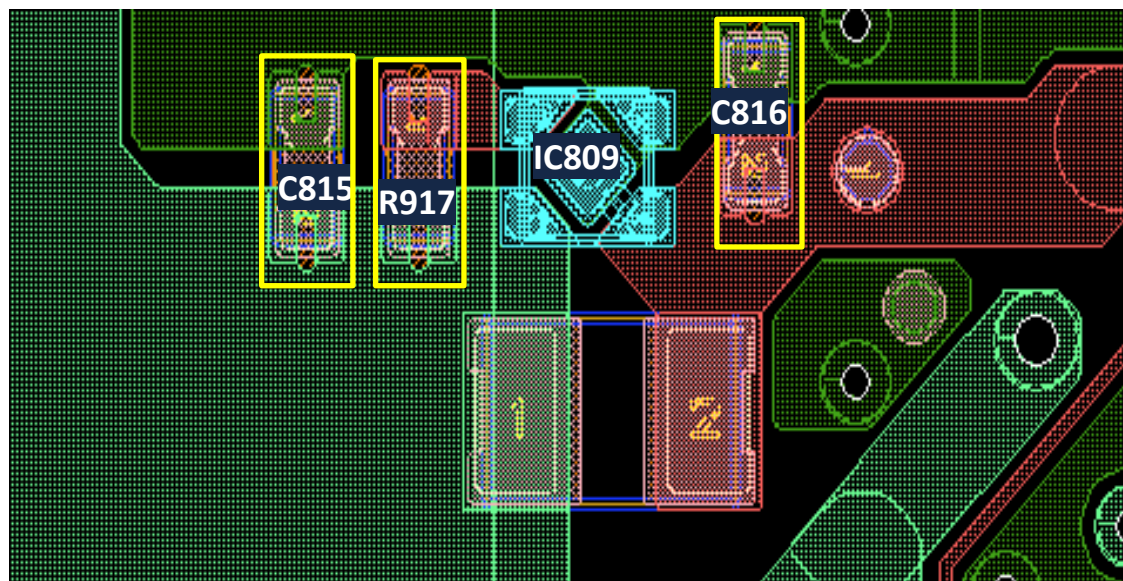


# TROUBLESHOOTING

## Checking Point

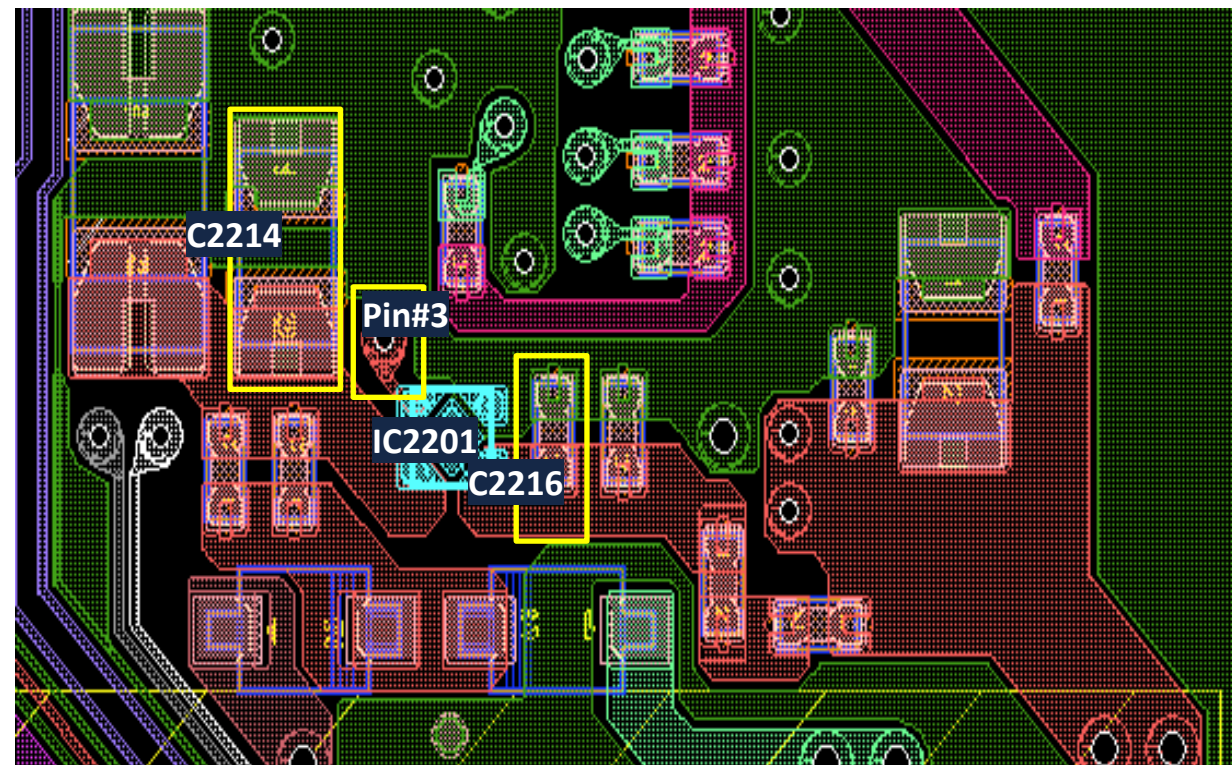
3.3V\_M5\_STBY

B-Side



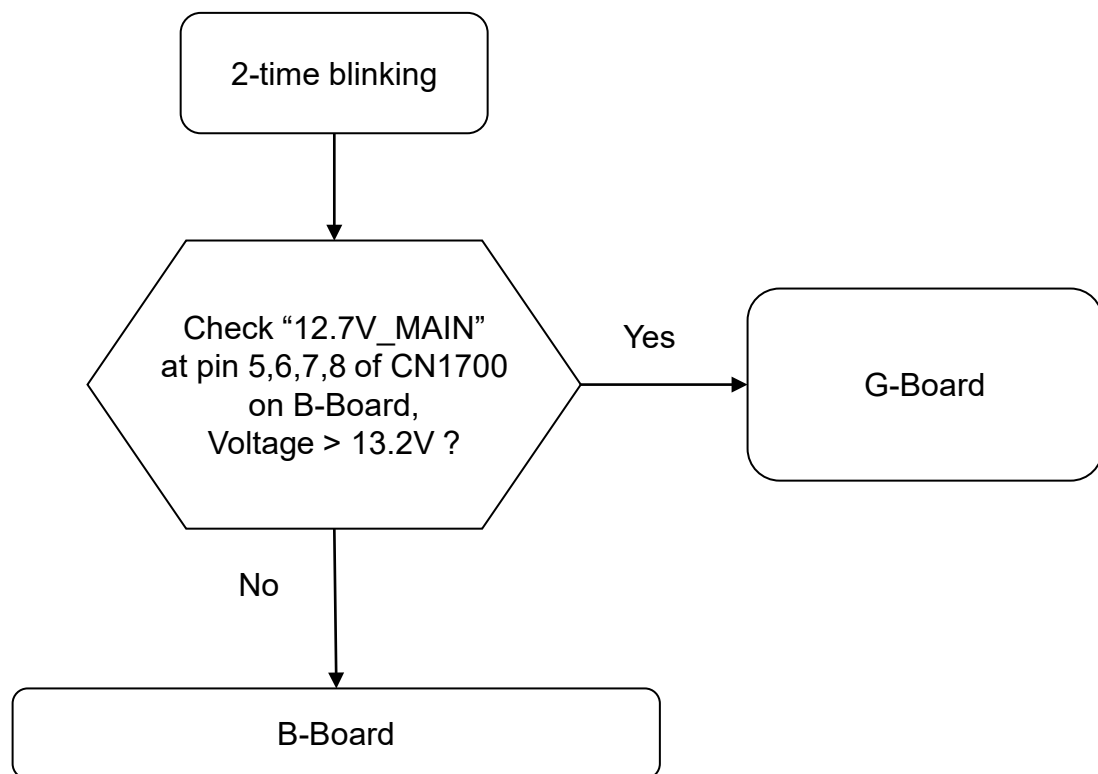
1.8V\_EMMC

B-Side



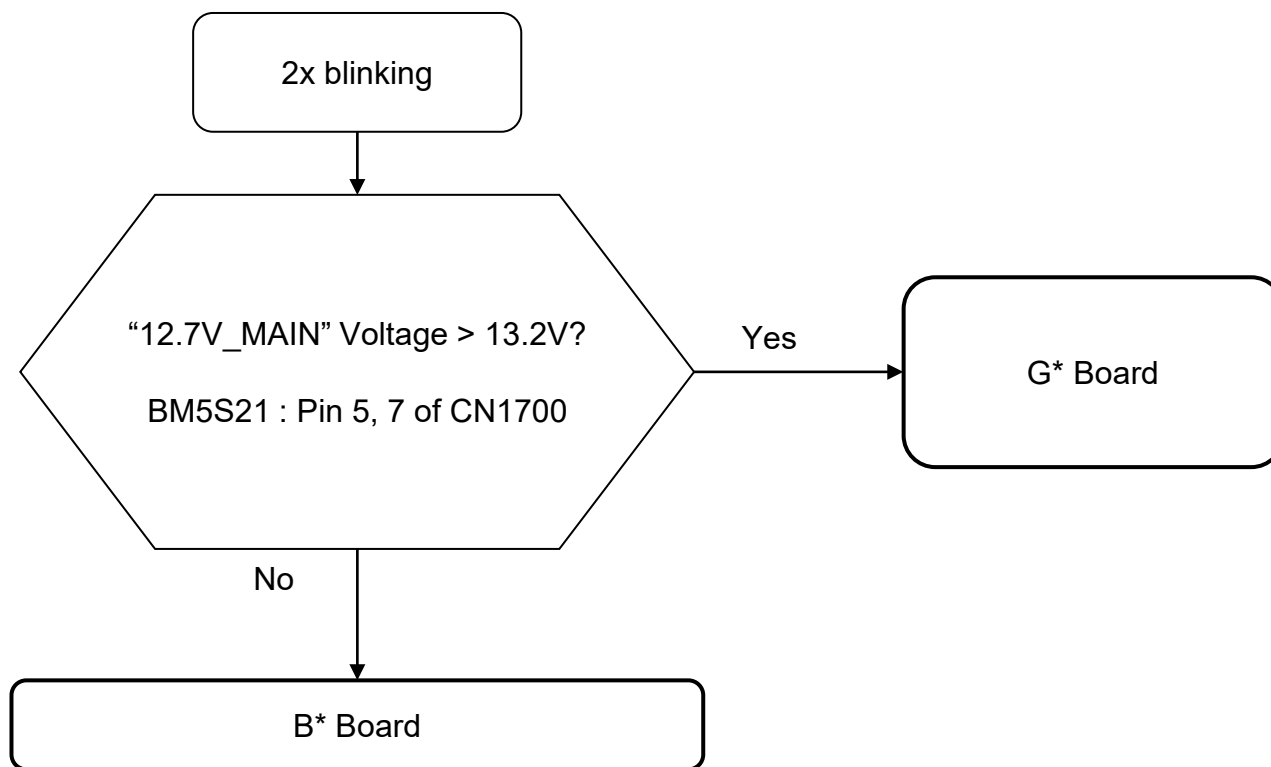
## TROUBLESHOOTING

### 2.0 LED Blinking: 2x (Main power Error)



## TROUBLESHOOTING

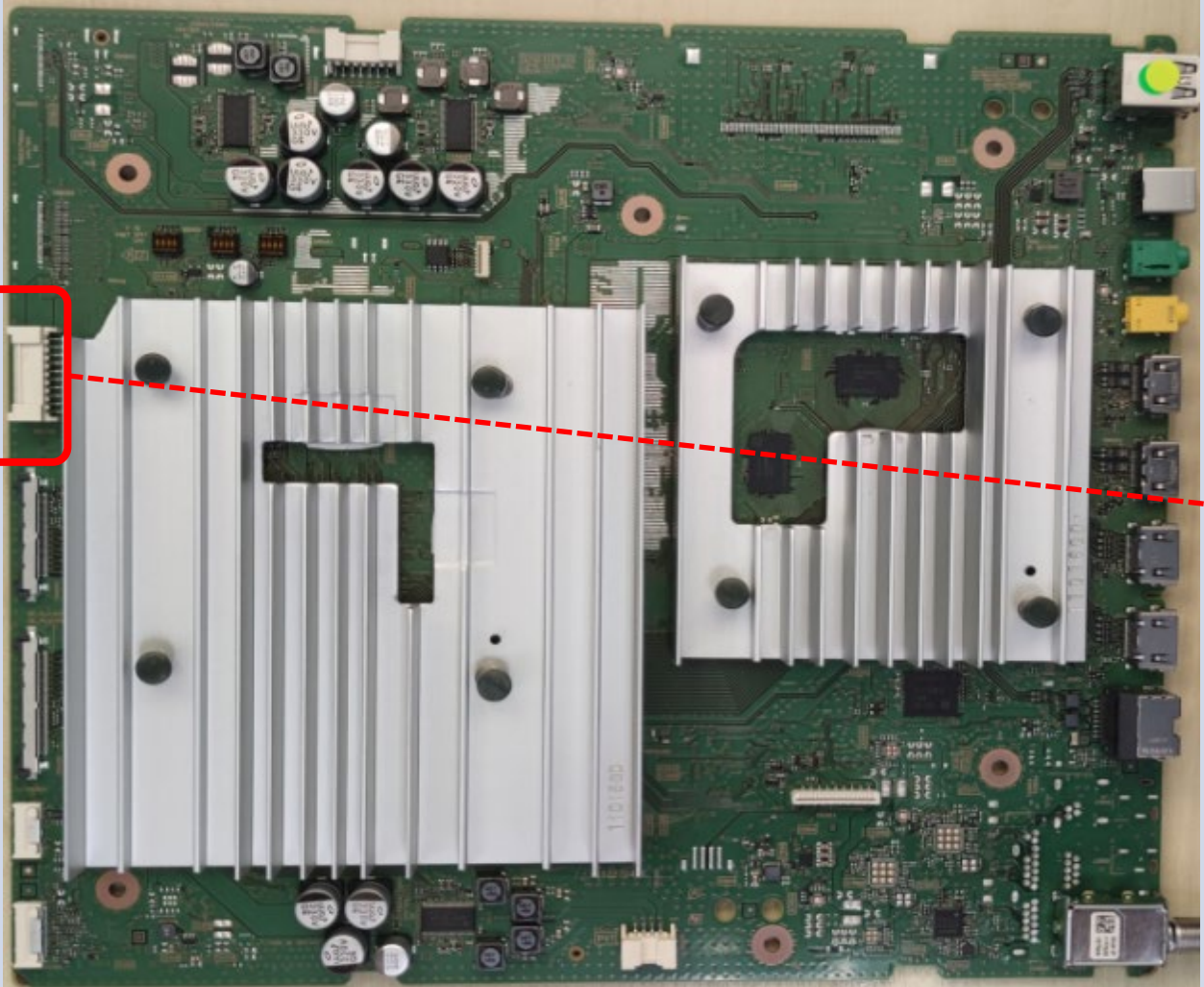
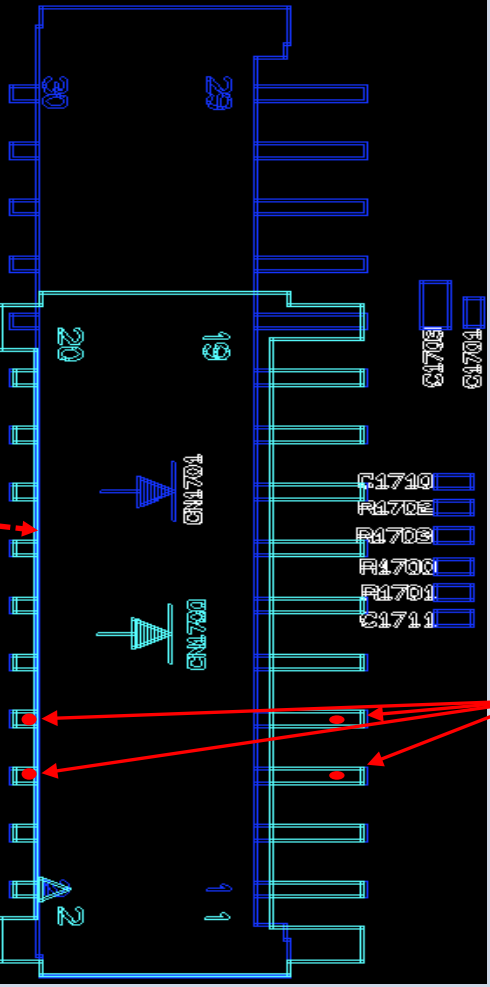
### 2.0 LED Blinking: 2x (Main power Error) – XR-83A80\*





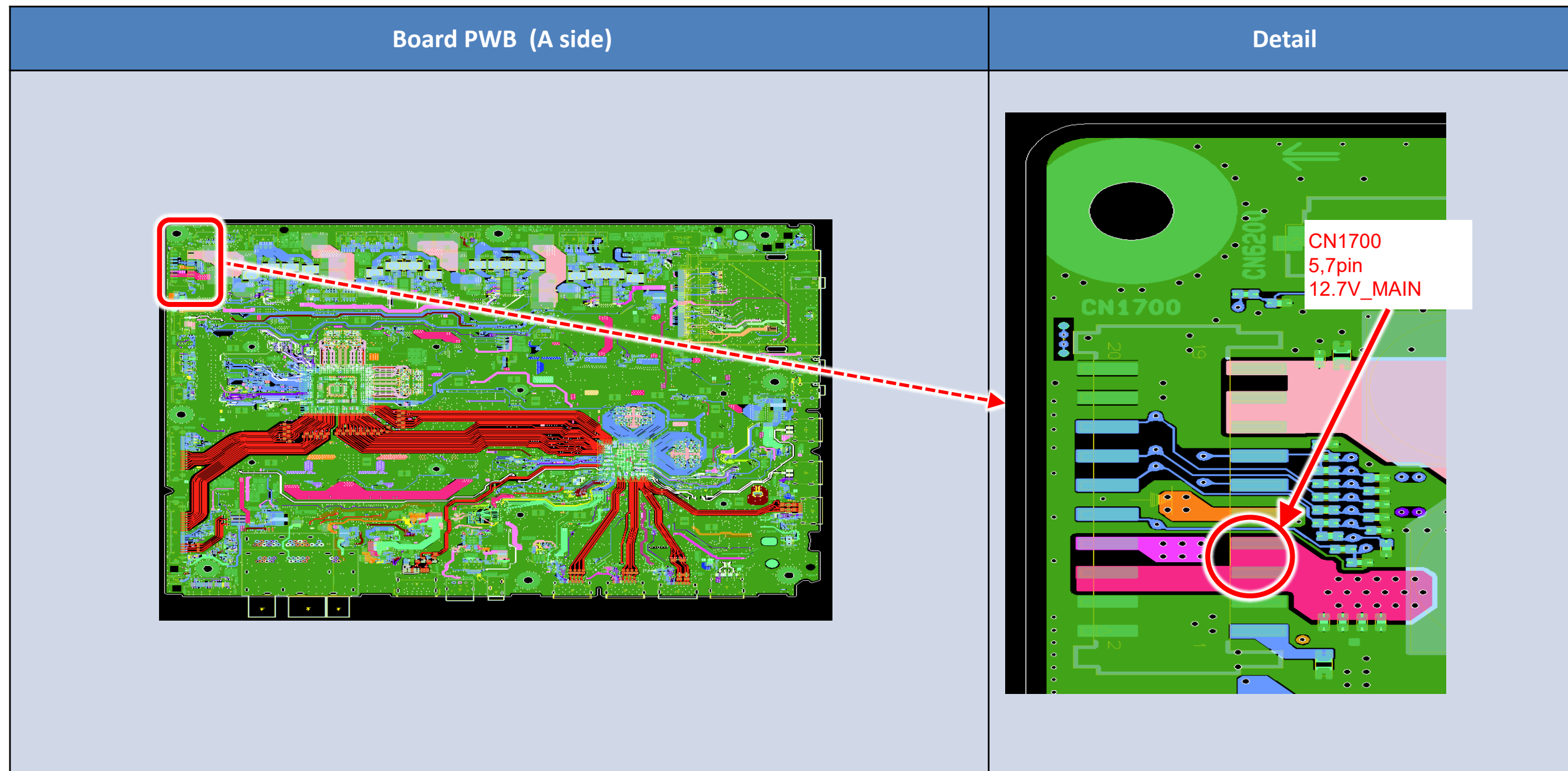
# TROUBLESHOOTING

## Checking Point

Board PWB (A side)	Detail
 <p data-bbox="164 858 296 901"><b>CN1700</b></p>	 <p data-bbox="2304 1085 2630 1212"><b>CN1700</b> Pin 5,6,7,8 12.7V_MAIN</p>

# TROUBLESHOOTING

## Checking Point – XR-83A80\*



## TROUBLESHOOTING

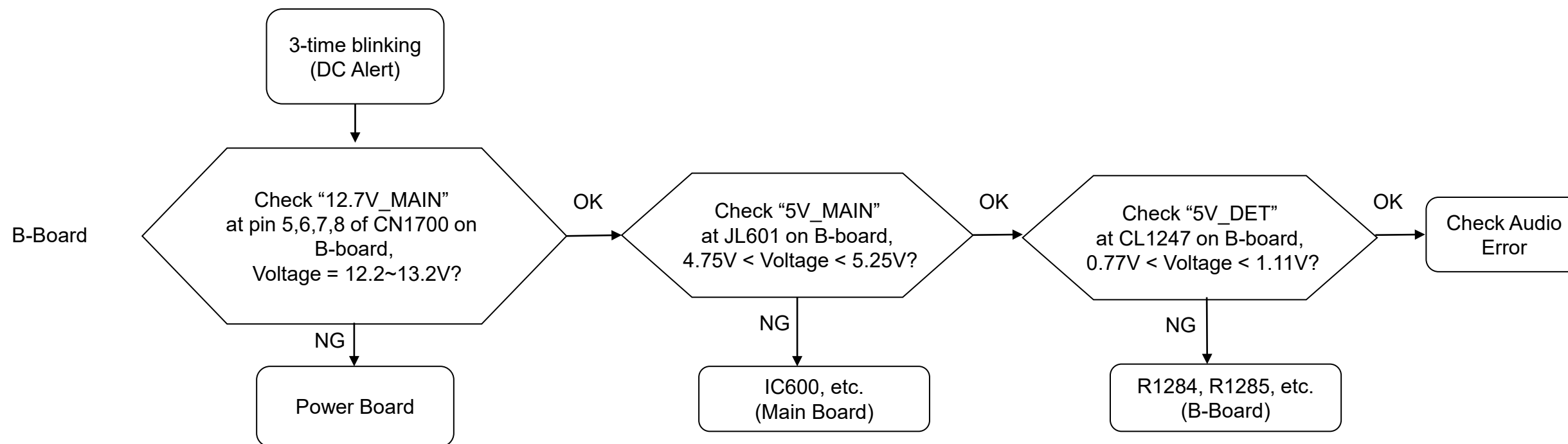
---

### Detail of 3x LED Blinking

Error Item	Number of STBY LED flashing	Description
DC_ALERT	3	Main board 5V power rail monitoring
AUD_ERR	3	Audio amp error detection

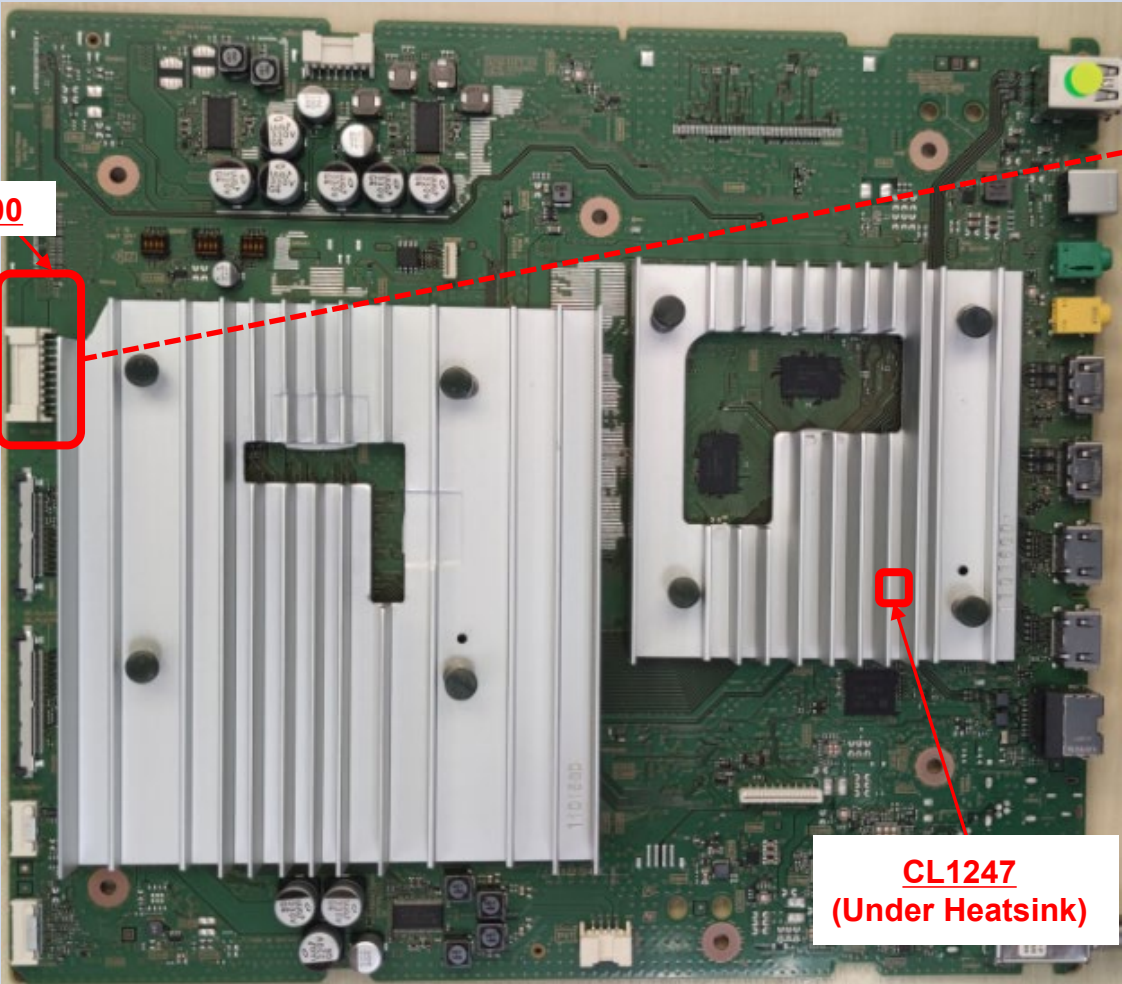
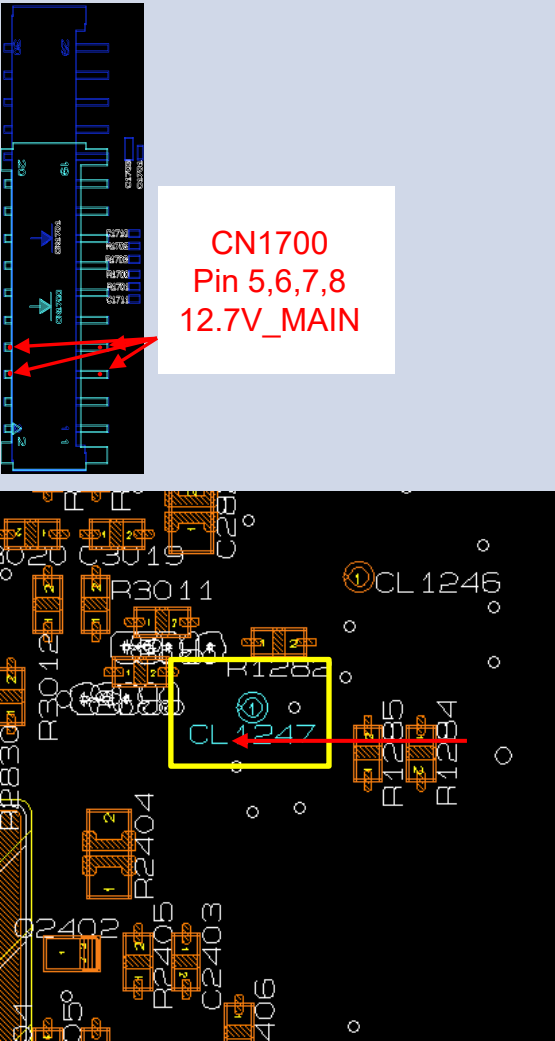
## TROUBLESHOOTING

### 2.1 LED Blinking: 3x (DC ALERT)



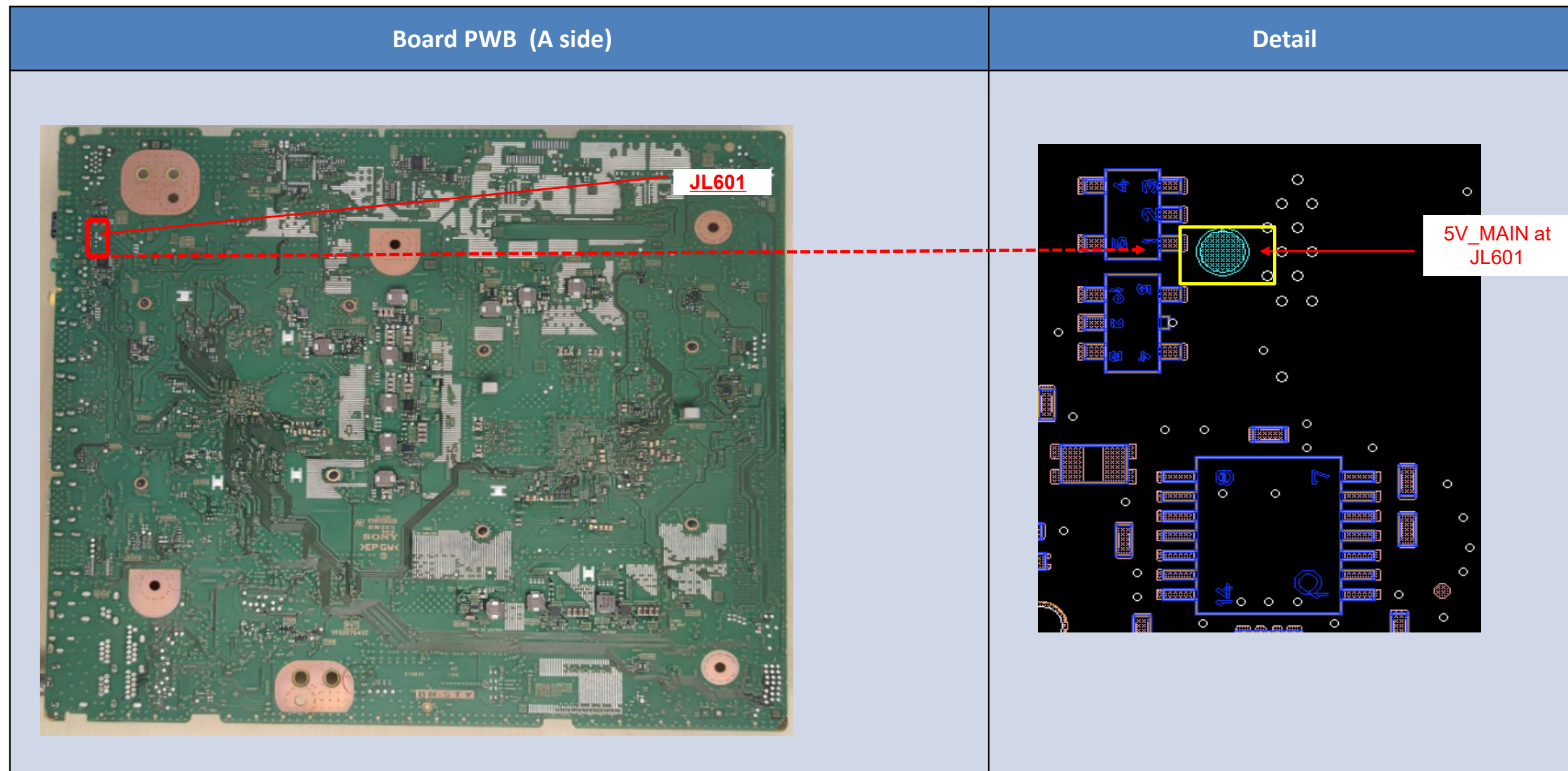
# TROUBLESHOOTING

## Checking Point

Board PWB (A side)	Detail
 <p><b>CN1700</b></p> <p><b>CL1247 (Under Heatsink)</b></p>	 <p><b>CN1700 Pin 5,6,7,8 12.7V_MAIN</b></p> <p><b>5V_DET at CL1247</b></p>

# TROUBLESHOOTING

## Checking Point



## TROUBLESHOOTING

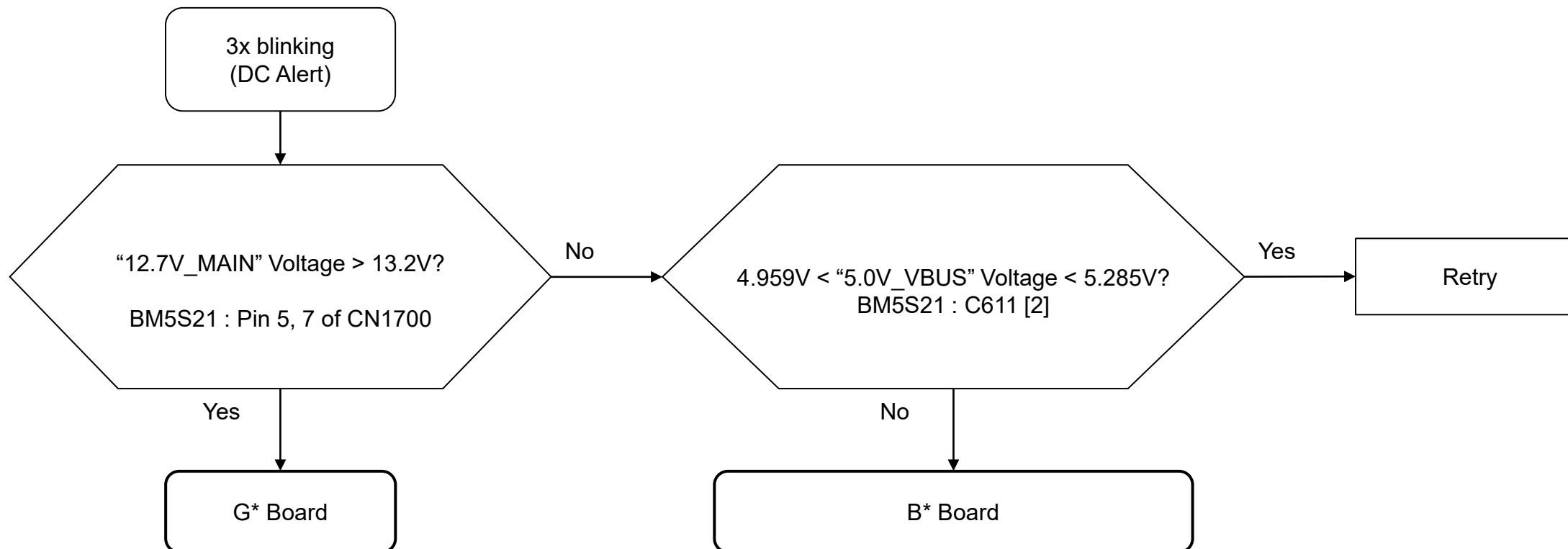
---

### Detail of 3x LED Blinking – XR-83A80\*

Error Item	Number of STBY LED flashing	Description
<a href="#">DC_ALERT</a>	3	Main 5V power failure
<a href="#">AUD_ERR</a>	3	Audio amp. protection

## TROUBLESHOOTING

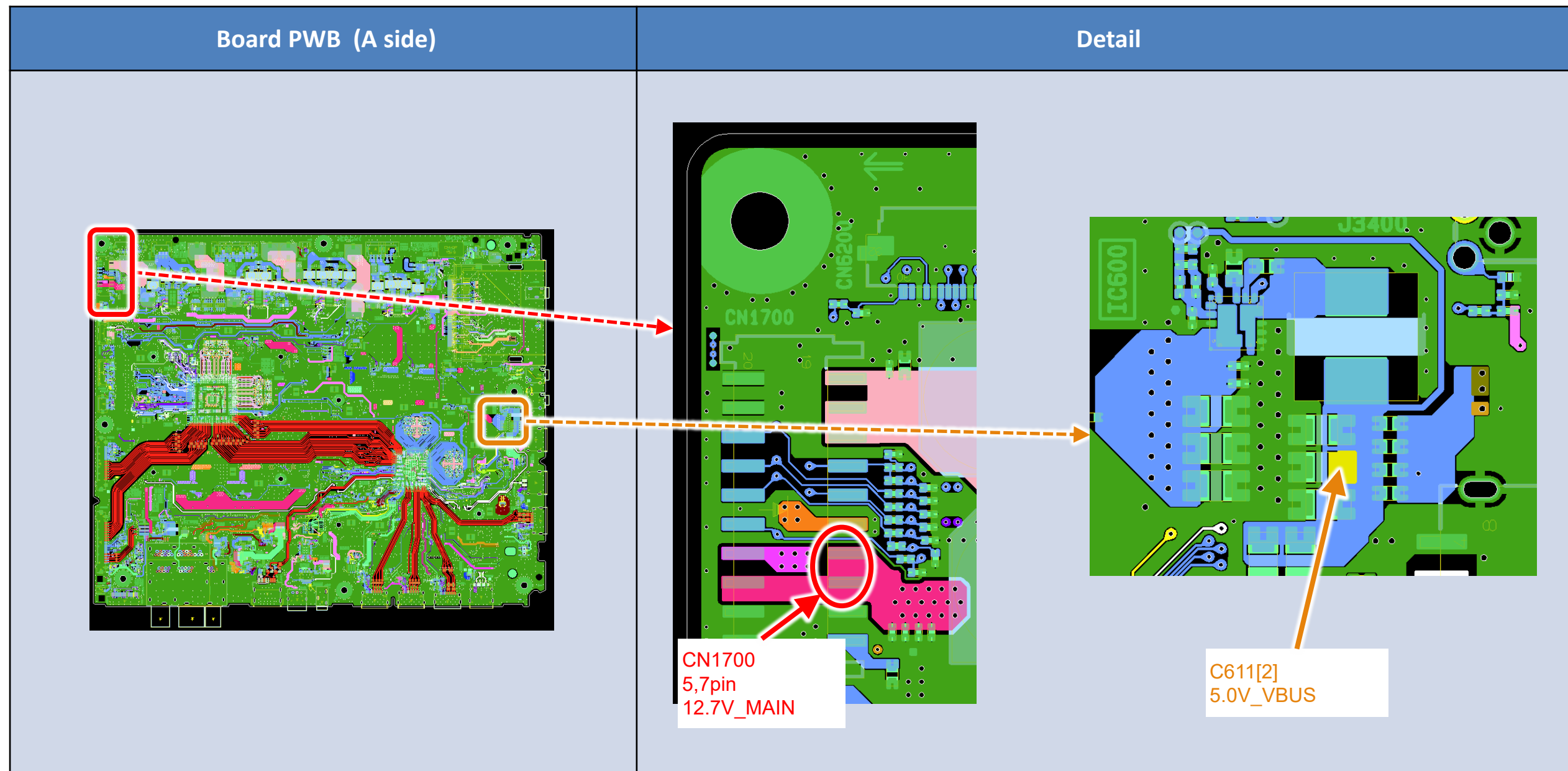
### 2.1 LED Blinking: 3x (DC ALERT) – XR-83A80\*





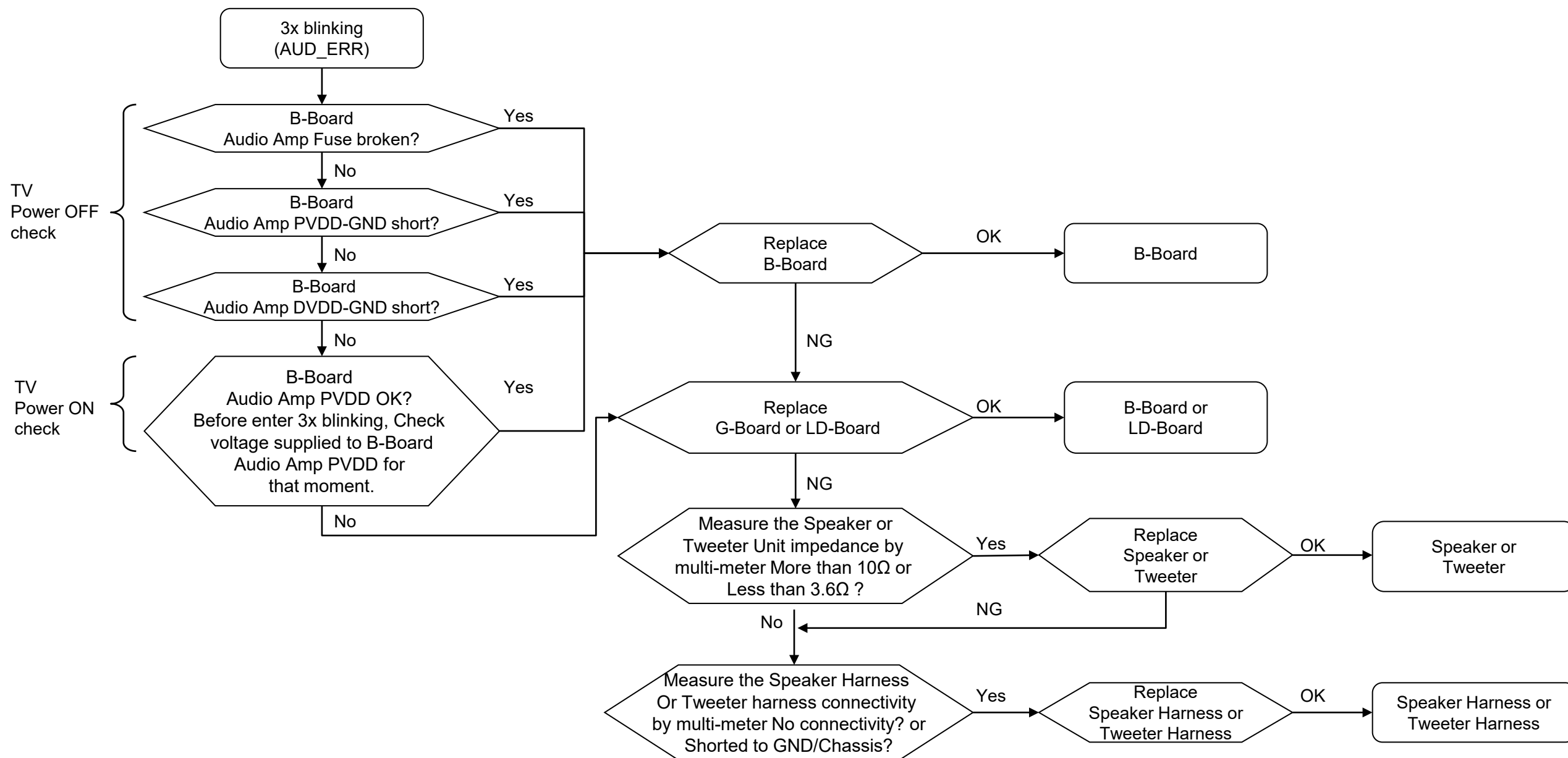
# TROUBLESHOOTING

## Checking Point – XR-83A80\*



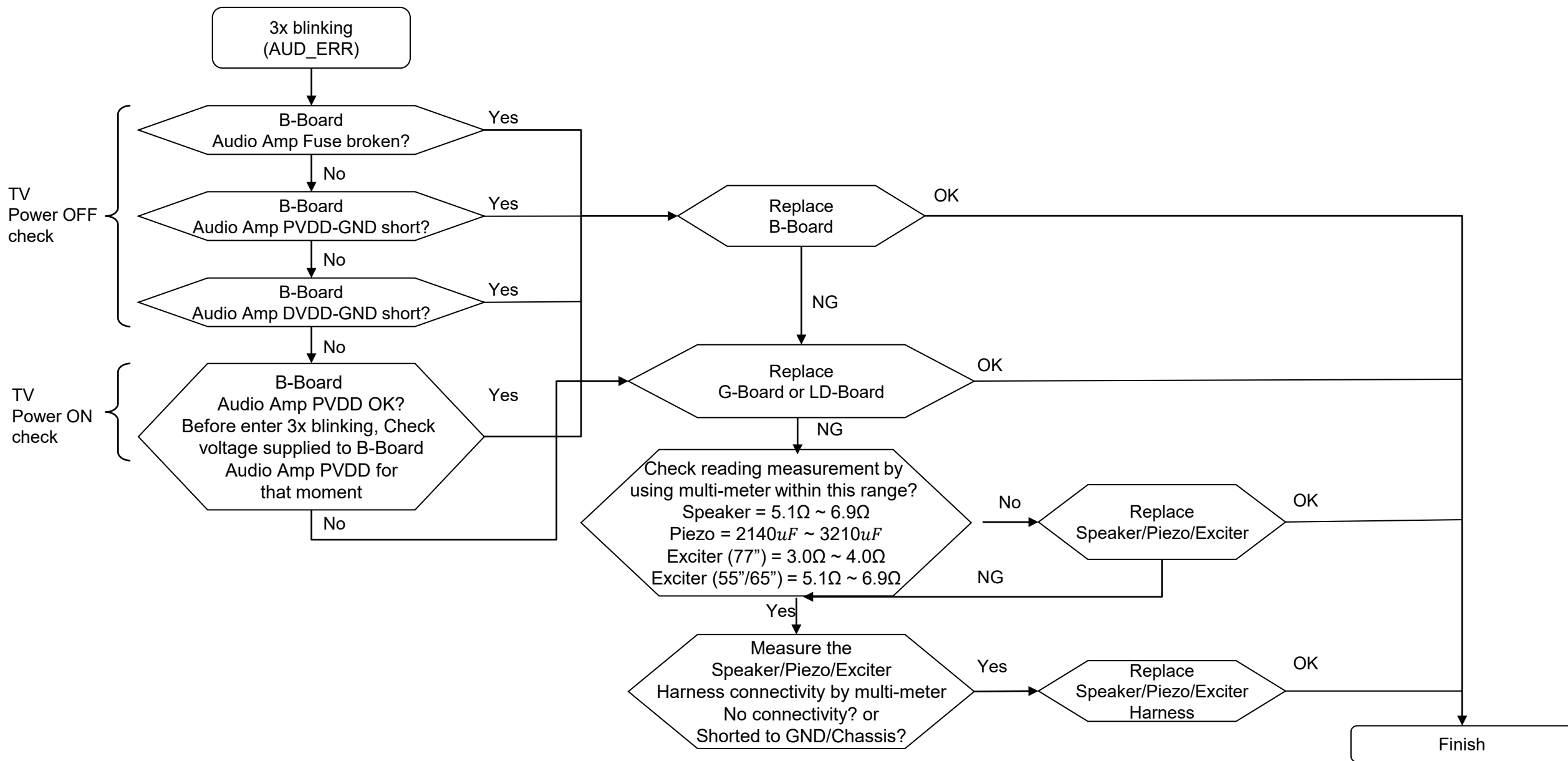
## TROUBLESHOOTING

### 2.2 LED Blinking: 3x (AUD\_ERR) – XR-\*80K / \*80CK



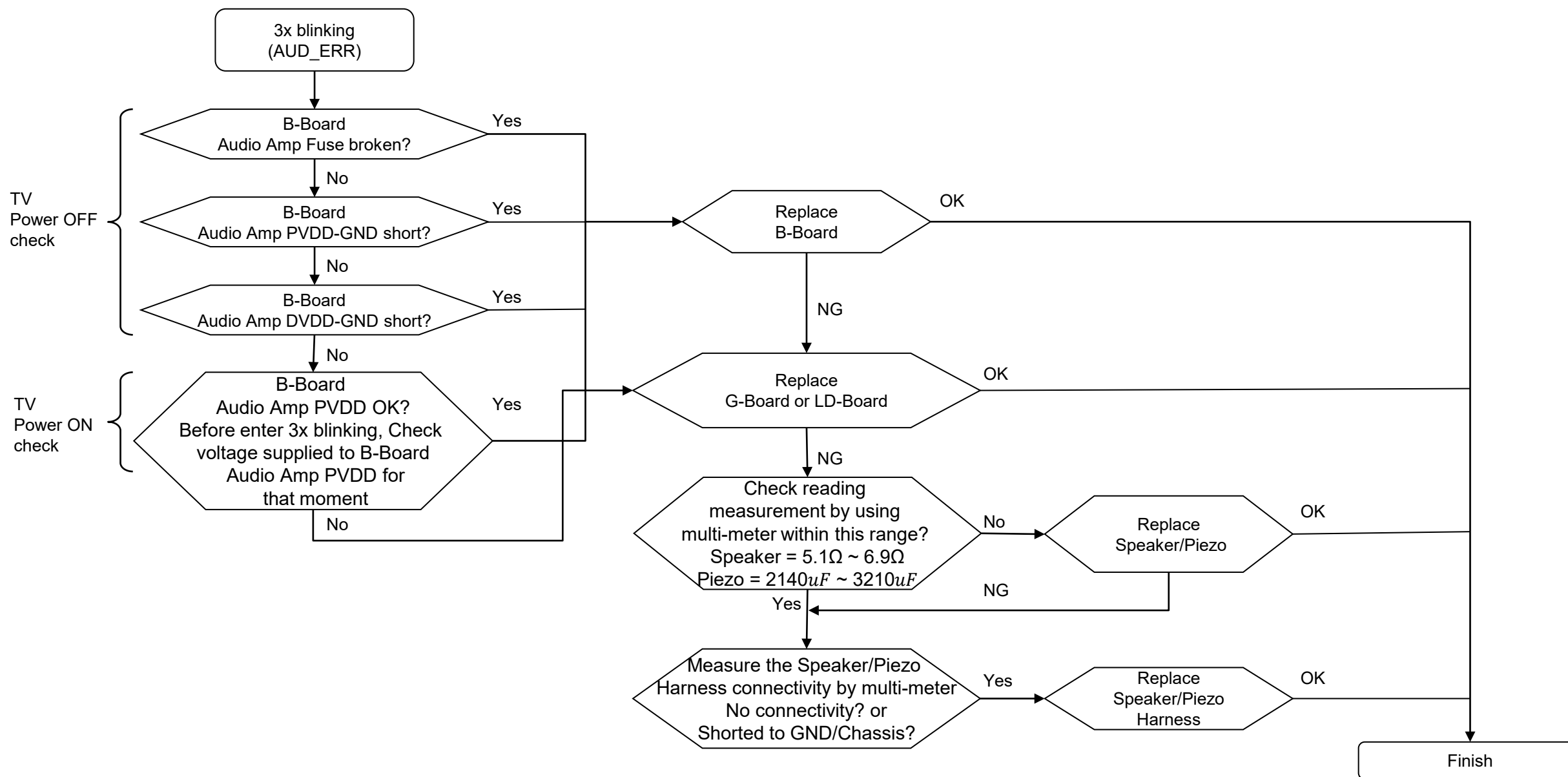
# TROUBLESHOOTING

## 2.2 LED Blinking: 3x (AUD\_ERR) – XR-\*A80L / \*A80CL



## TROUBLESHOOTING

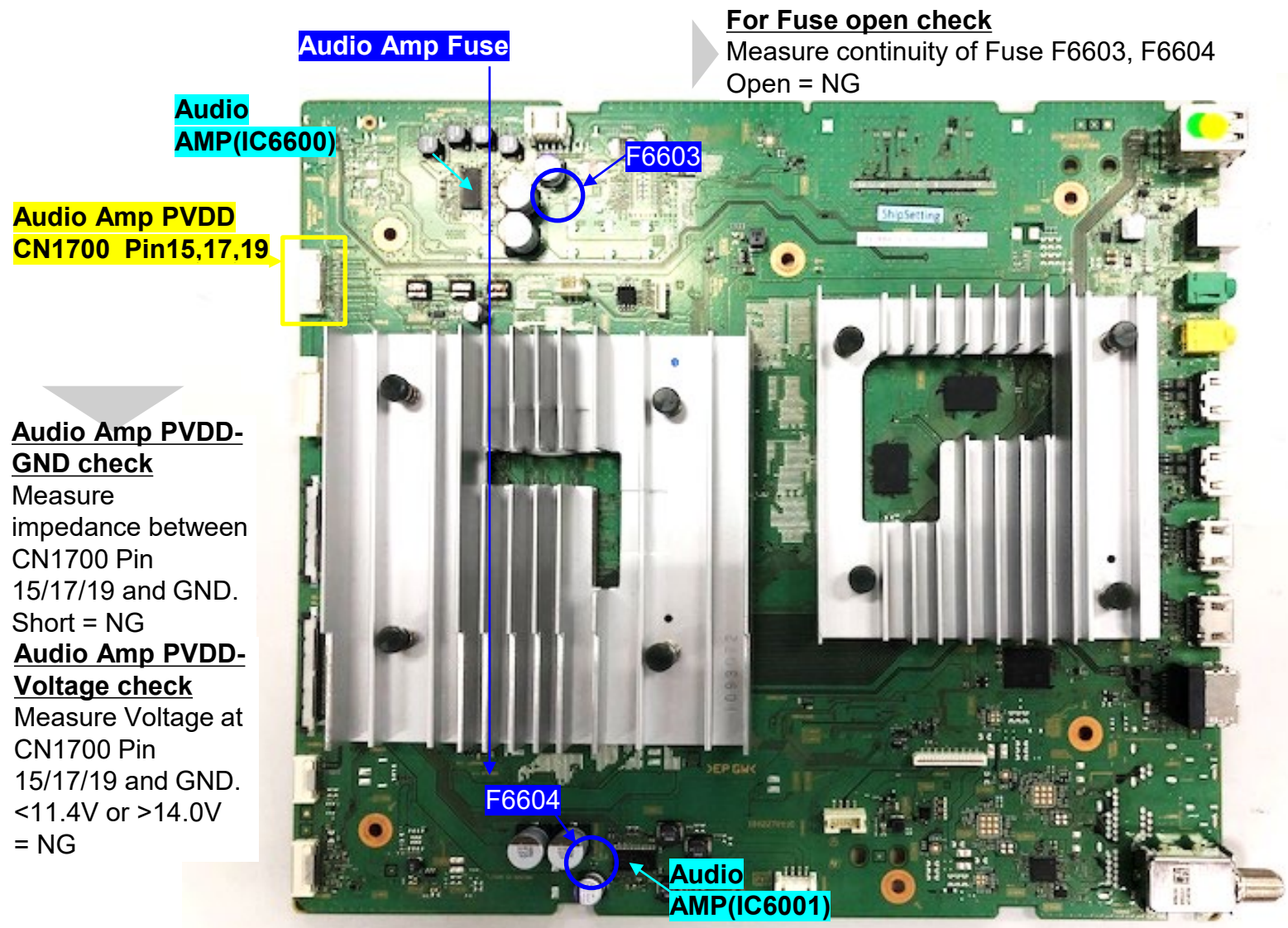
### 2.2 LED Blinking: 3x (AUD\_ERR) – XR-\*A75L



# TROUBLESHOOTING

## 2.2 LED Blinking: 3x (AUD\_ERR) – XR-\*80K / \*80CK

Caution: Before start do checking point, please ensure TV in "Power Off" Condition for Continuity check

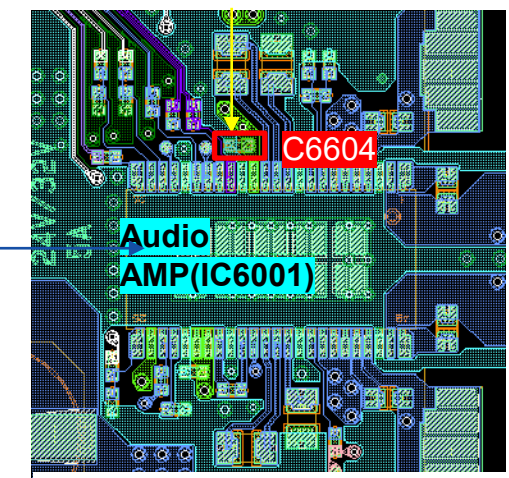


**For Fuse open check**  
 Measure continuity of Fuse F6603, F6604  
 Open = NG

**Audio Amp PVDD-GND check**  
 Measure impedance between CN1700 Pin 15/17/19 and GND.  
 Short = NG

**Audio Amp PVDD-Voltage check**  
 Measure Voltage at CN1700 Pin 15/17/19 and GND.  
 <11.4V or >14.0V = NG

**Audio Amp DVDD**



**Audio Amp DVDD-GND check**  
 Measure impedance between DVDD and GND at capacitor C6604  
 Short = NG

## TROUBLESHOOTING

### 2.2 LED Blinking: 3x (AUD\_ERR) – XR-\*A80L / \*A80CL

Caution: Before start do checking point, please ensure TV in "Power Off" Condition for Continuity check

**Audio Amp Fuse**

**Audio AMP(IC6600)**

**Audio Amp PVDD CN1700 Pin15,17,19**

**Audio AMP(IC6602)**

**Audio AMP(IC6601)**

**F6603**

**F6605**

**F6604**

**C6604**

**Audio AMP(IC6001)**

**Audio Amp DVDD**

**Audio Amp PVDD-GND check**  
Measure impedance between CN1700 Pin 15/17/19 and GND.  
Short = NG

**Audio Amp PVDD-Voltage check**  
Measure Voltage at CN1700 Pin 15/17/19 and GND.  
For 55"/65" (18V ~ 24.3V)  
For 77" (17V ~ 24.3V)  
Else; NG

**For Fuse open check**  
Measure continuity of Fuse F6603, F6604, F6605  
Open = NG

**Audio Amp DVDD-GND check**  
Measure impedance between DVDD and GND at capacitor C6604  
Short = NG

# TROUBLESHOOTING

## 2.2 LED Blinking: 3x (AUD\_ERR) – XR-\*A75L

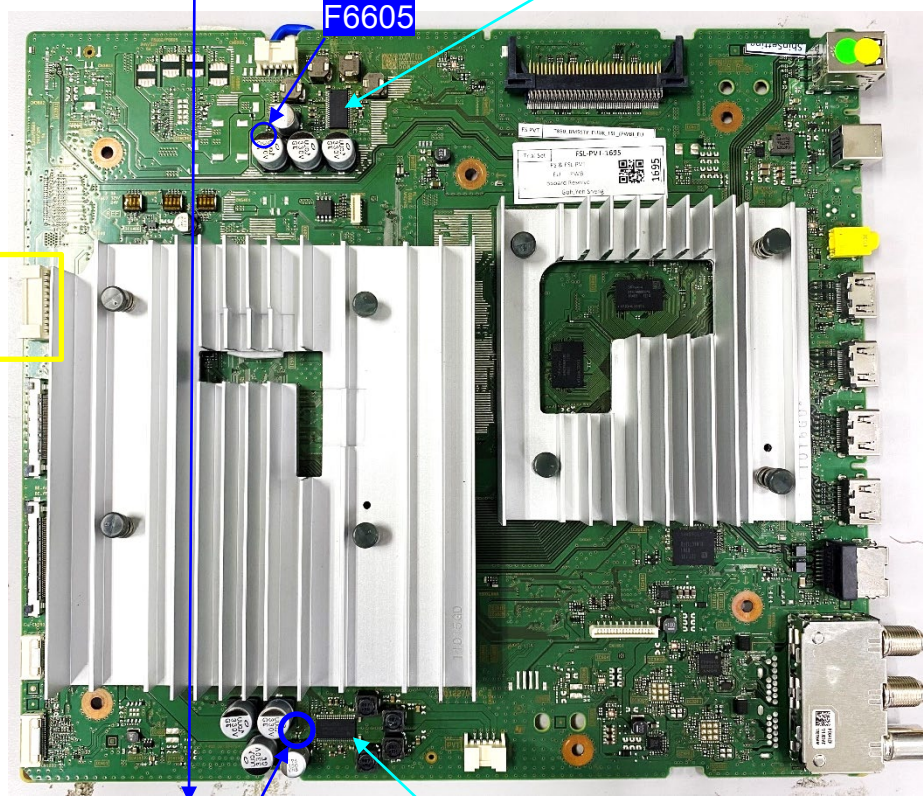
Caution: Before start do checking point, please ensure TV in "Power Off" Condition for Continuity check

**For Fuse open check**  
 Measure continuity of Fuse F6604, F6605  
 Open = NG

**Audio Amp Fuse**

**Audio AMP(IC6602)**

**Audio Amp PVDD  
 CN1700 Pin15,17,19**



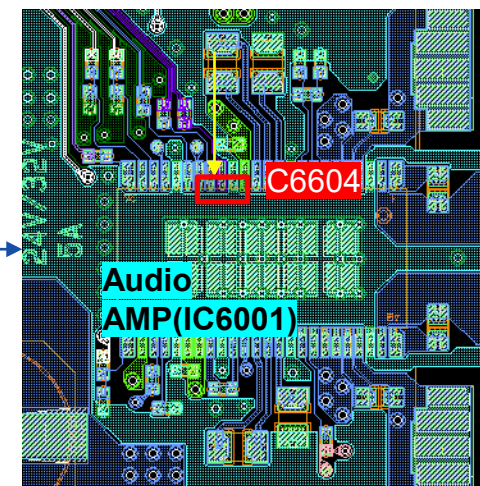
**Audio Amp PVDD-GND check**

Measure impedance between CN1700 Pin 15/17/19 and GND.  
 Short = NG

**Audio Amp PVDD-Voltage check**

Measure Voltage at CN1700 Pin 15/17/19 and GND.  
 For 55"/65" (18V ~ 24.3V)  
 Else; NG

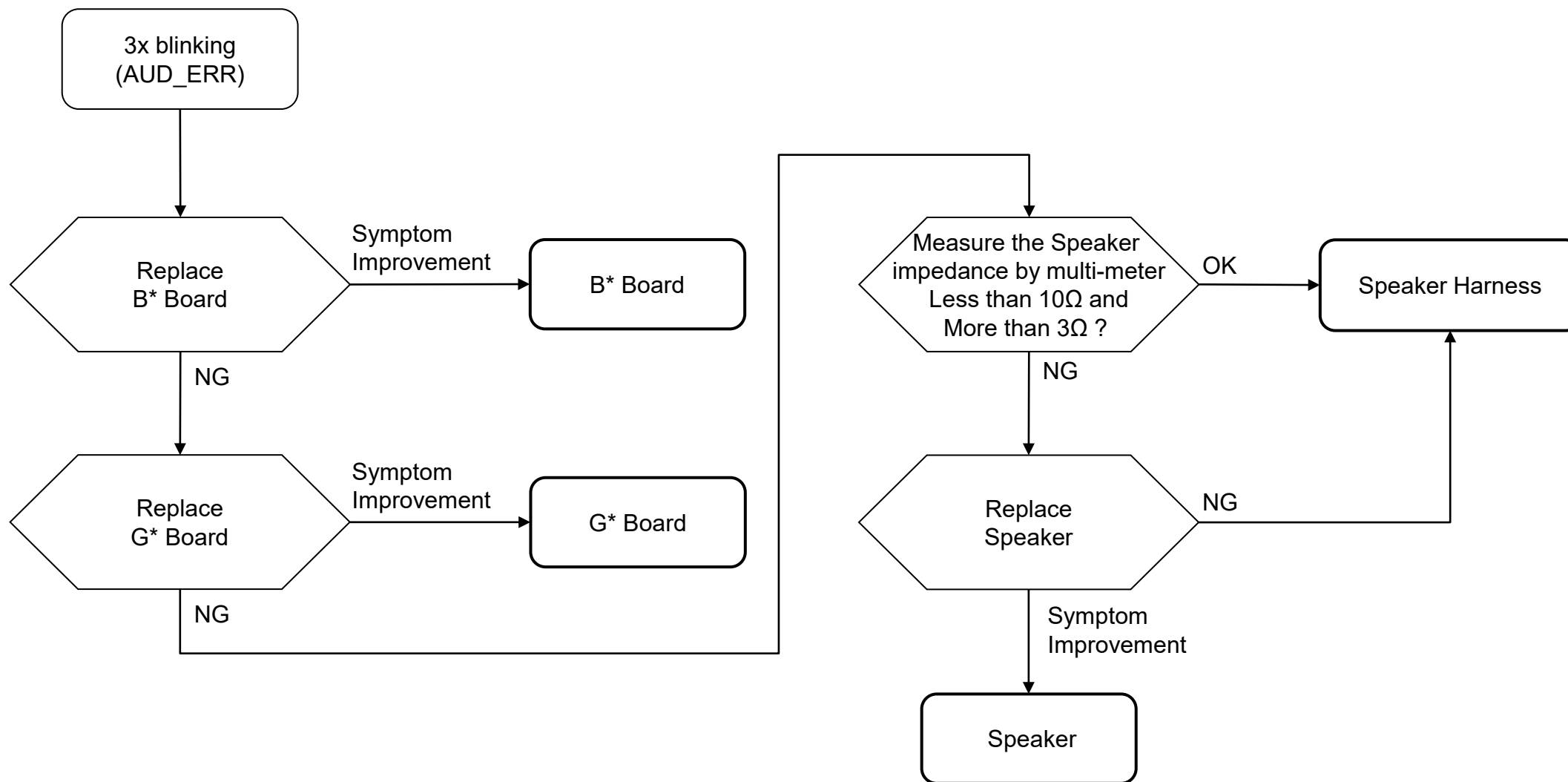
**Audio Amp DVDD**



**Audio Amp DVDD-GND check**  
 Measure impedance between DVDD and GND at capacitor C6604  
 Short = NG

## TROUBLESHOOTING

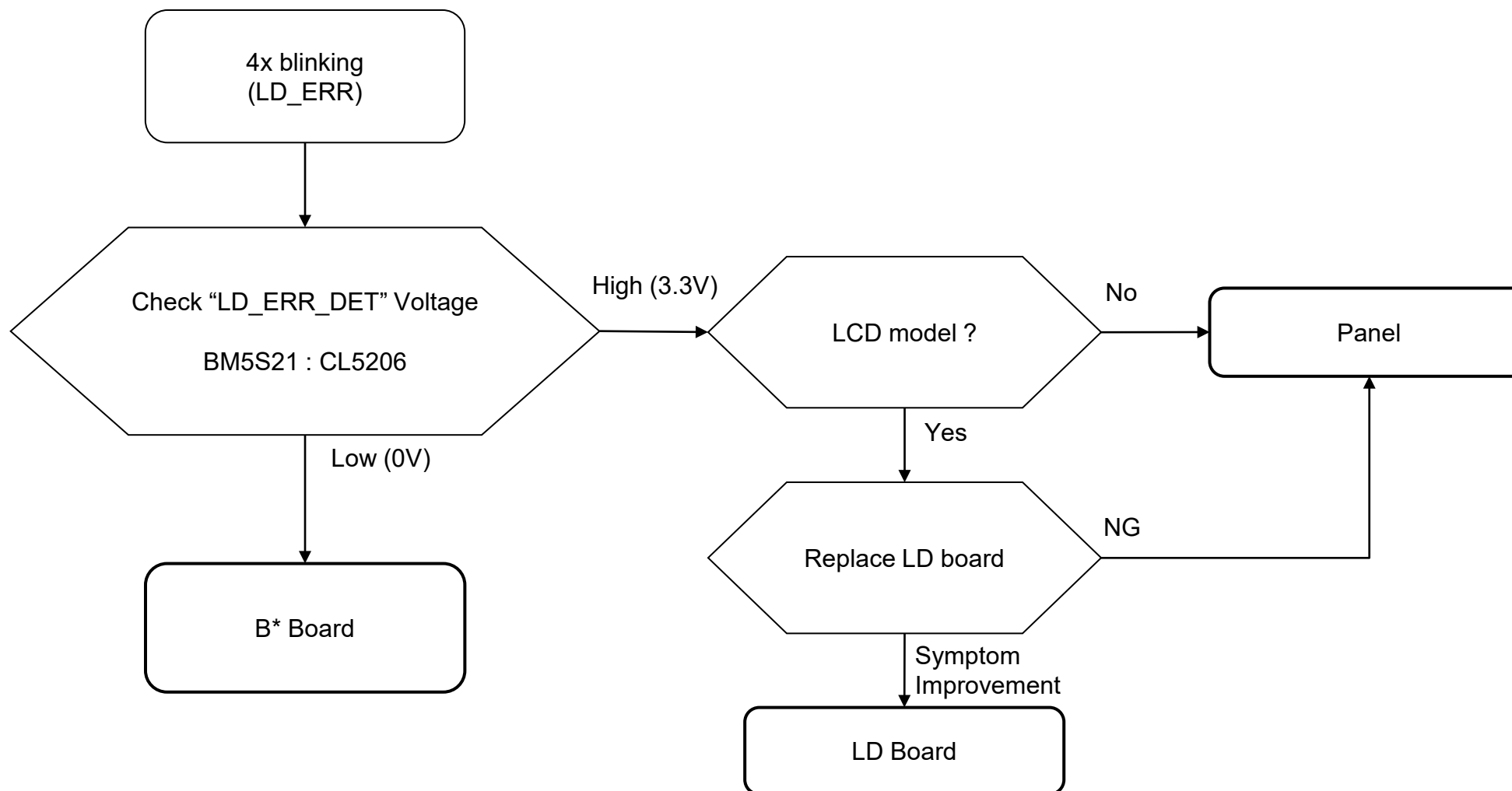
### 2.2 LED Blinking: 3x (AUD\_ERR) – XR-83A80\*





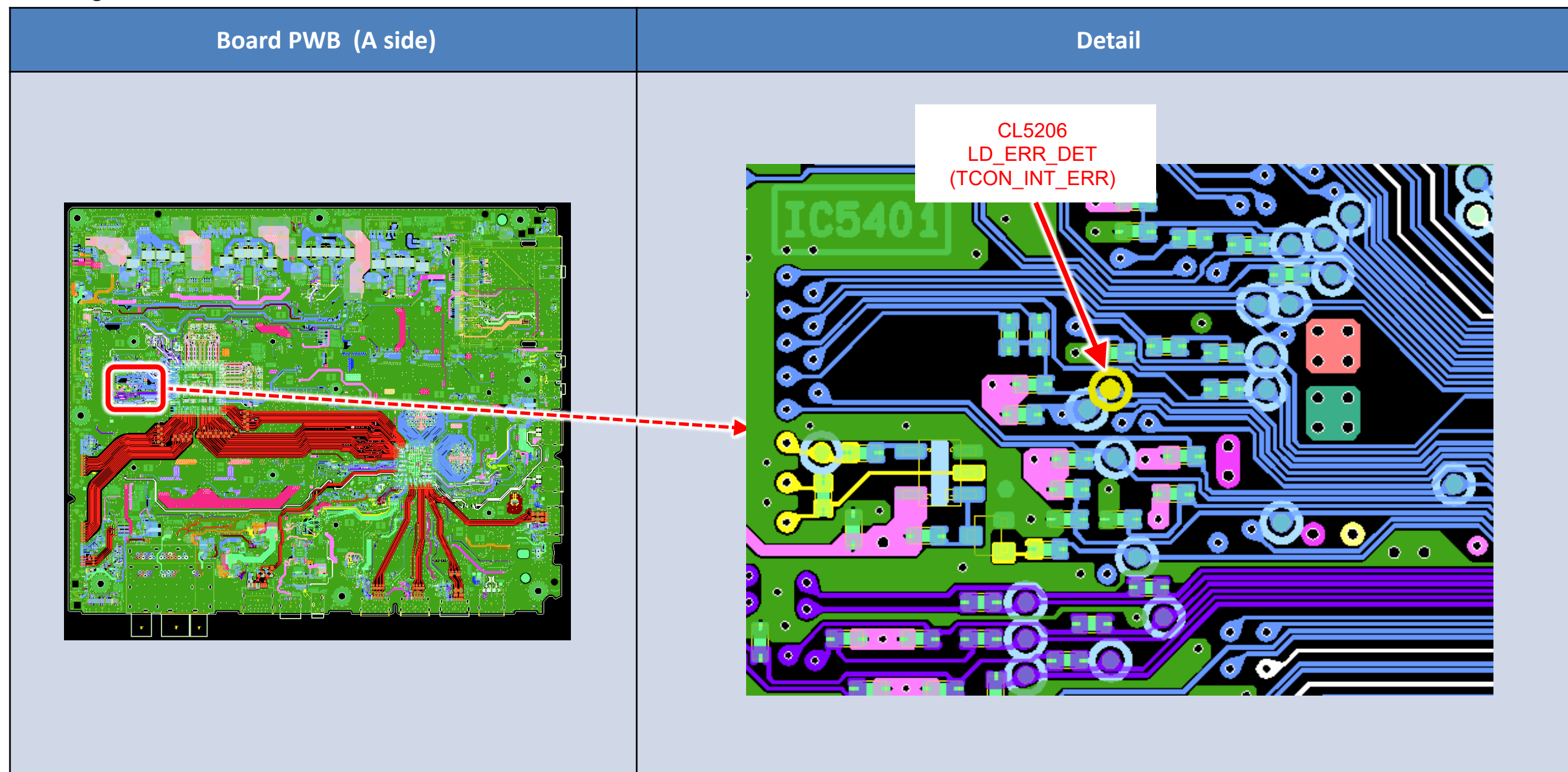
# TROUBLESHOOTING

## 2.3 LED Blinking: 4x (LD\_ERR) – XR-83A80\*



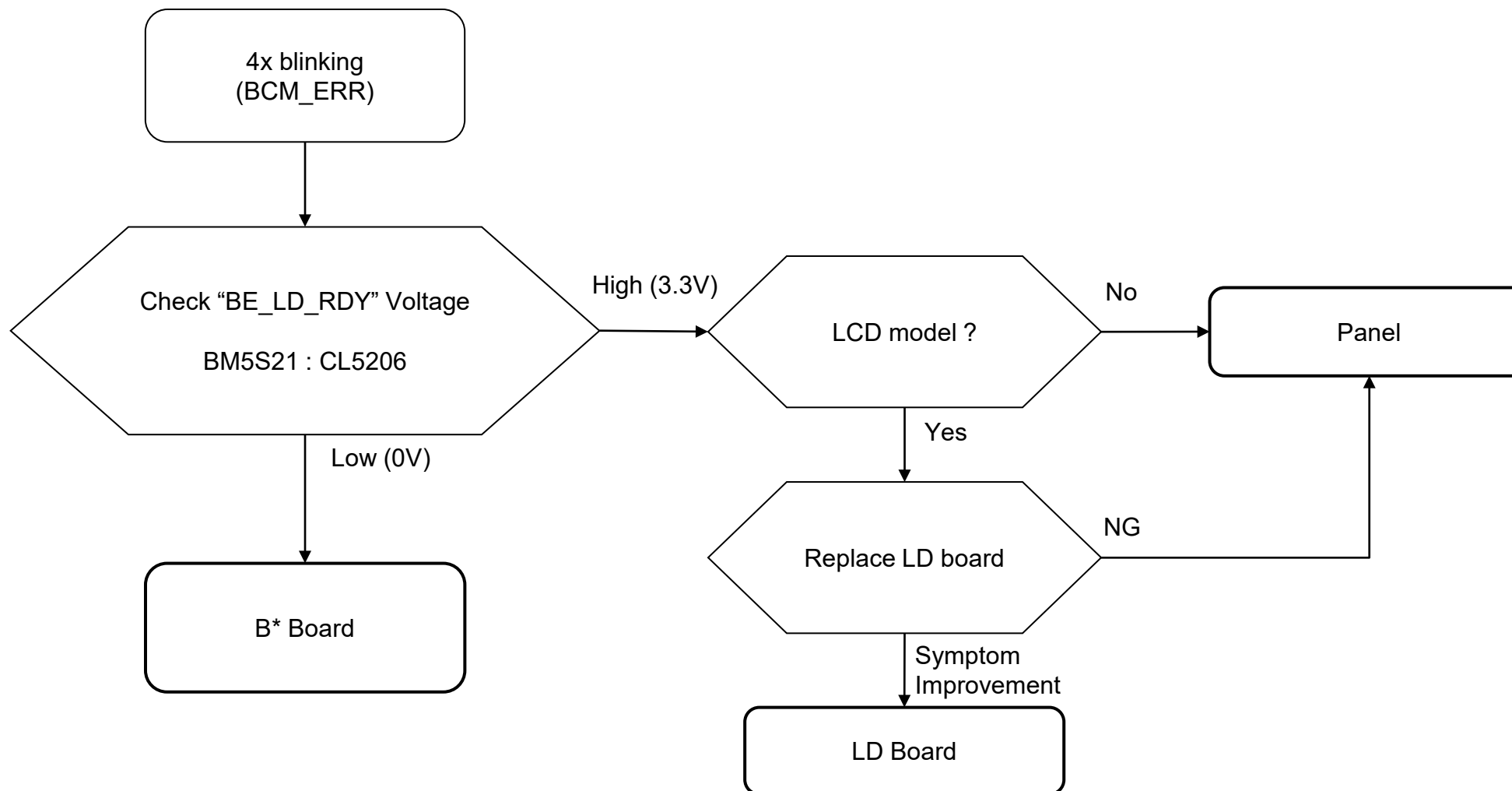
# TROUBLESHOOTING

## Checking Point – XR-83A80\*



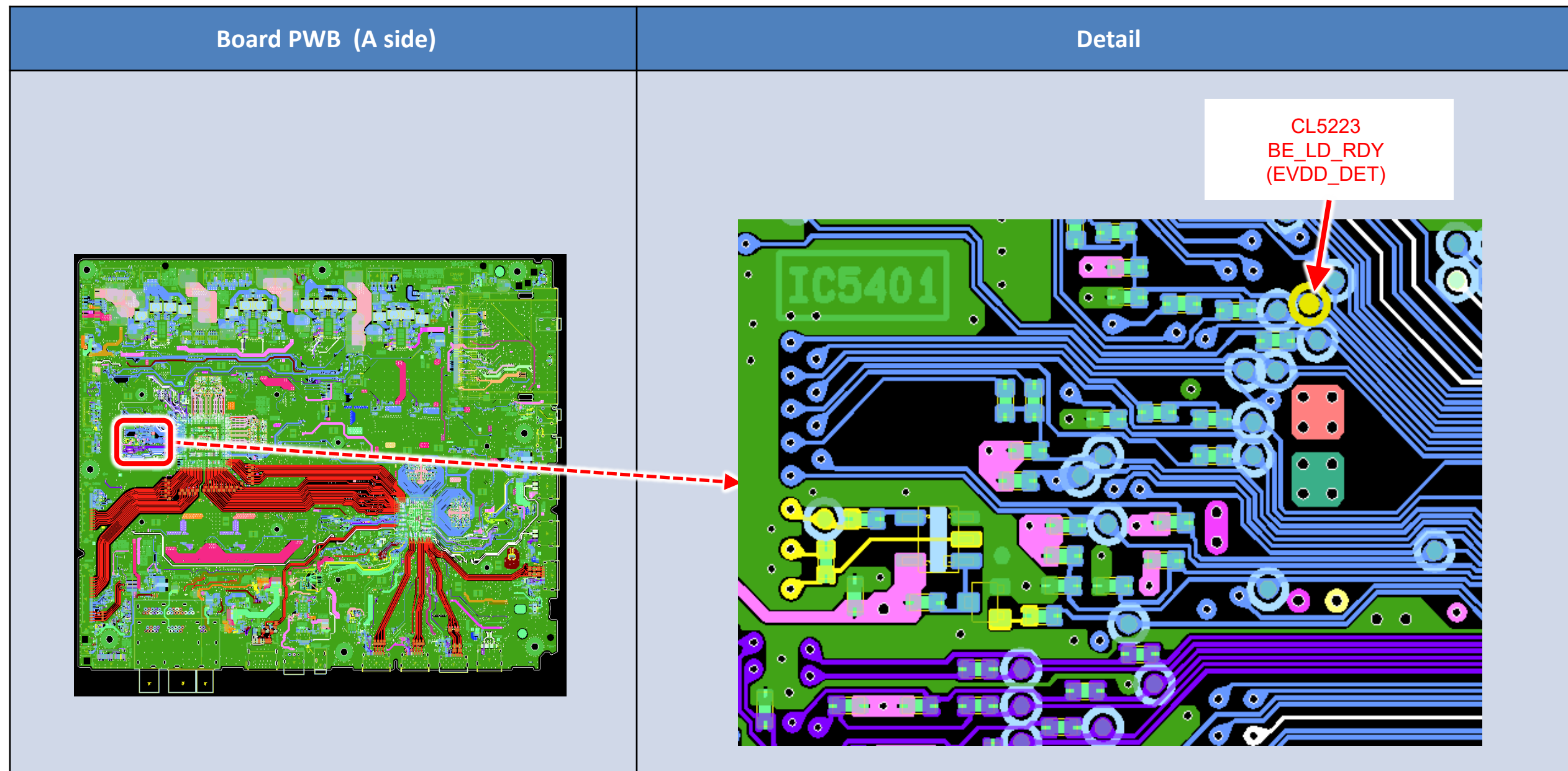
## TROUBLESHOOTING

### 2.4 LED Blinking: 4x (BCM\_ERR) – XR-83A80\*



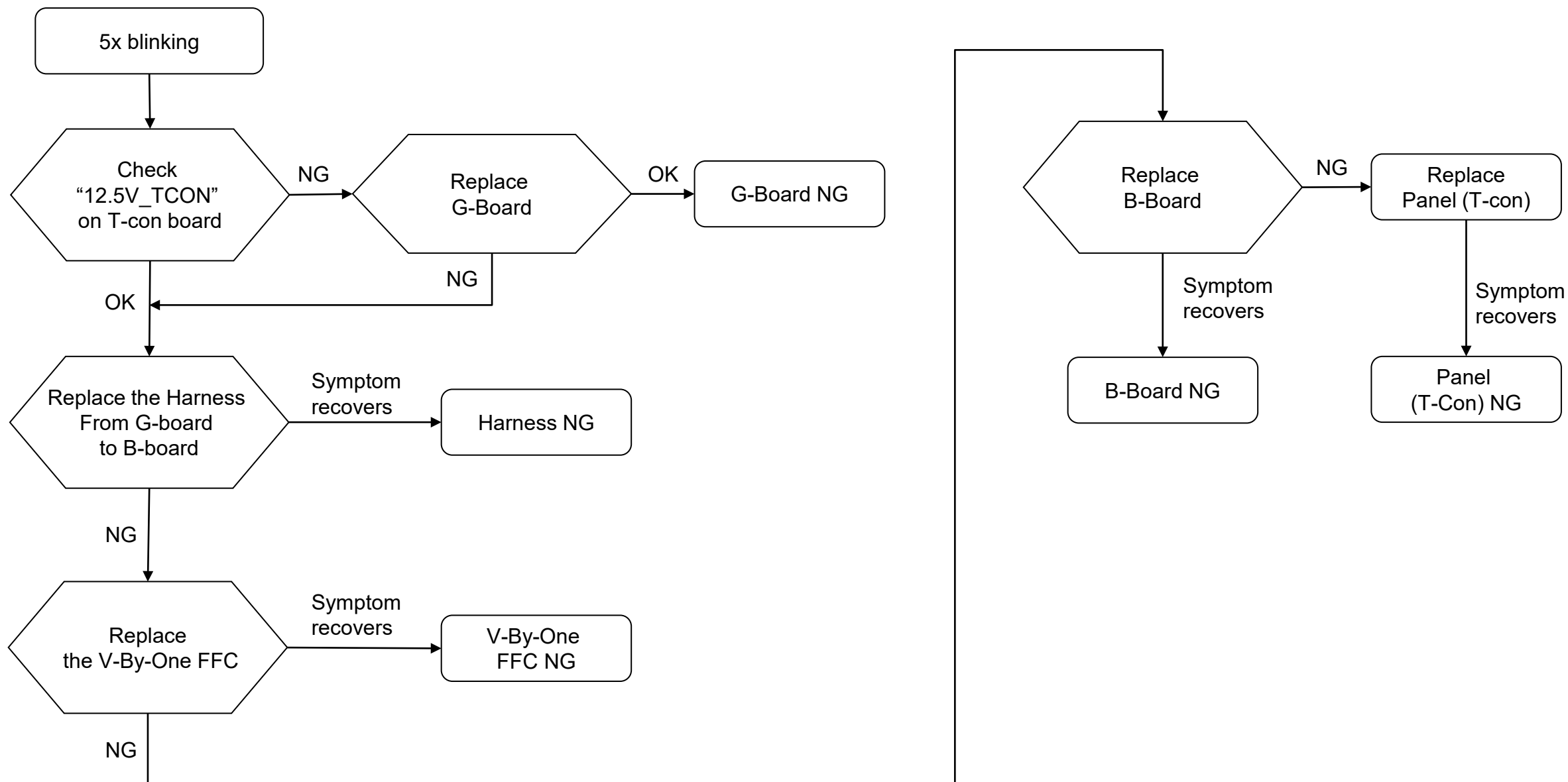
# TROUBLESHOOTING

## Checking Point – XR-83A80\*



## TROUBLESHOOTING

### 2.5 LED Blinking : 5x Blinking (Panel ID Read Error)

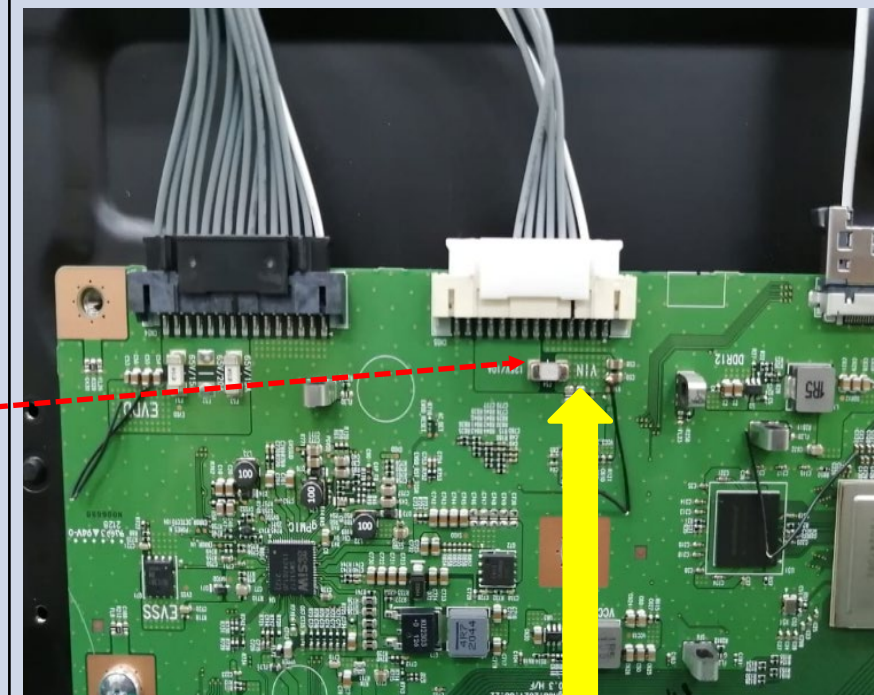
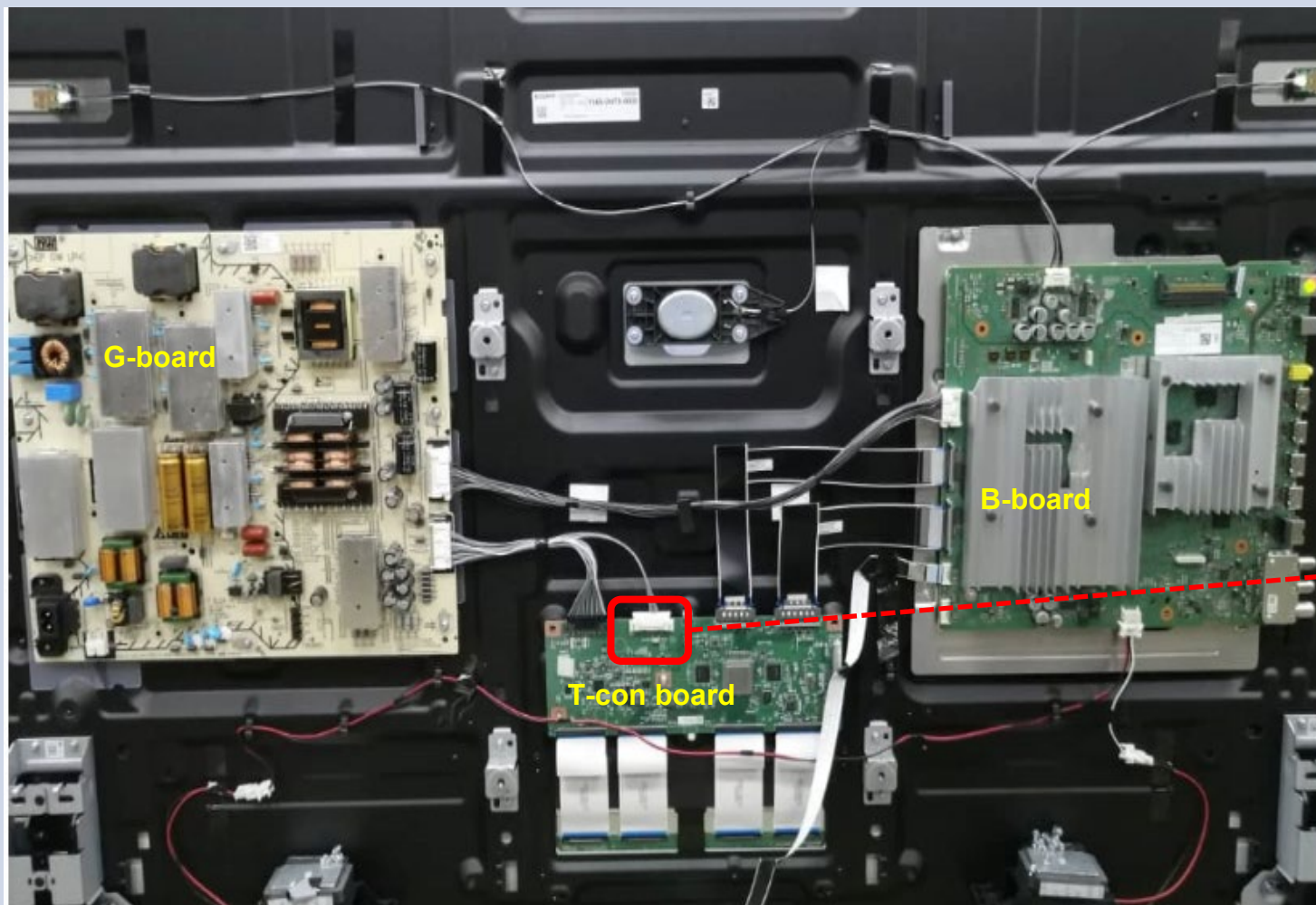


# TROUBLESHOOTING

## 2.5 LED Blinking : Check point for 12.5V T-con at T-con Board

Back Chassis

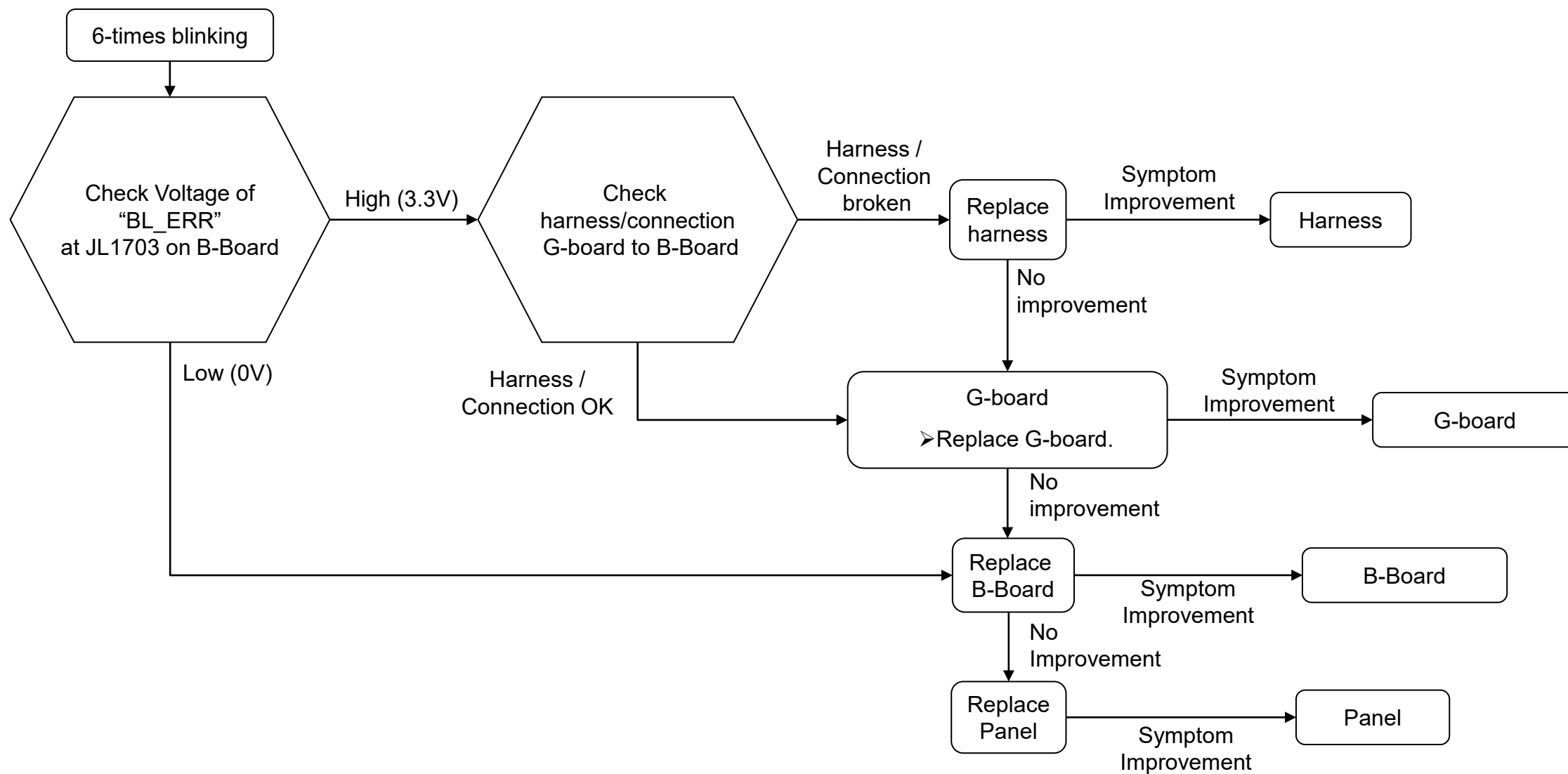
Detail



12V TCON

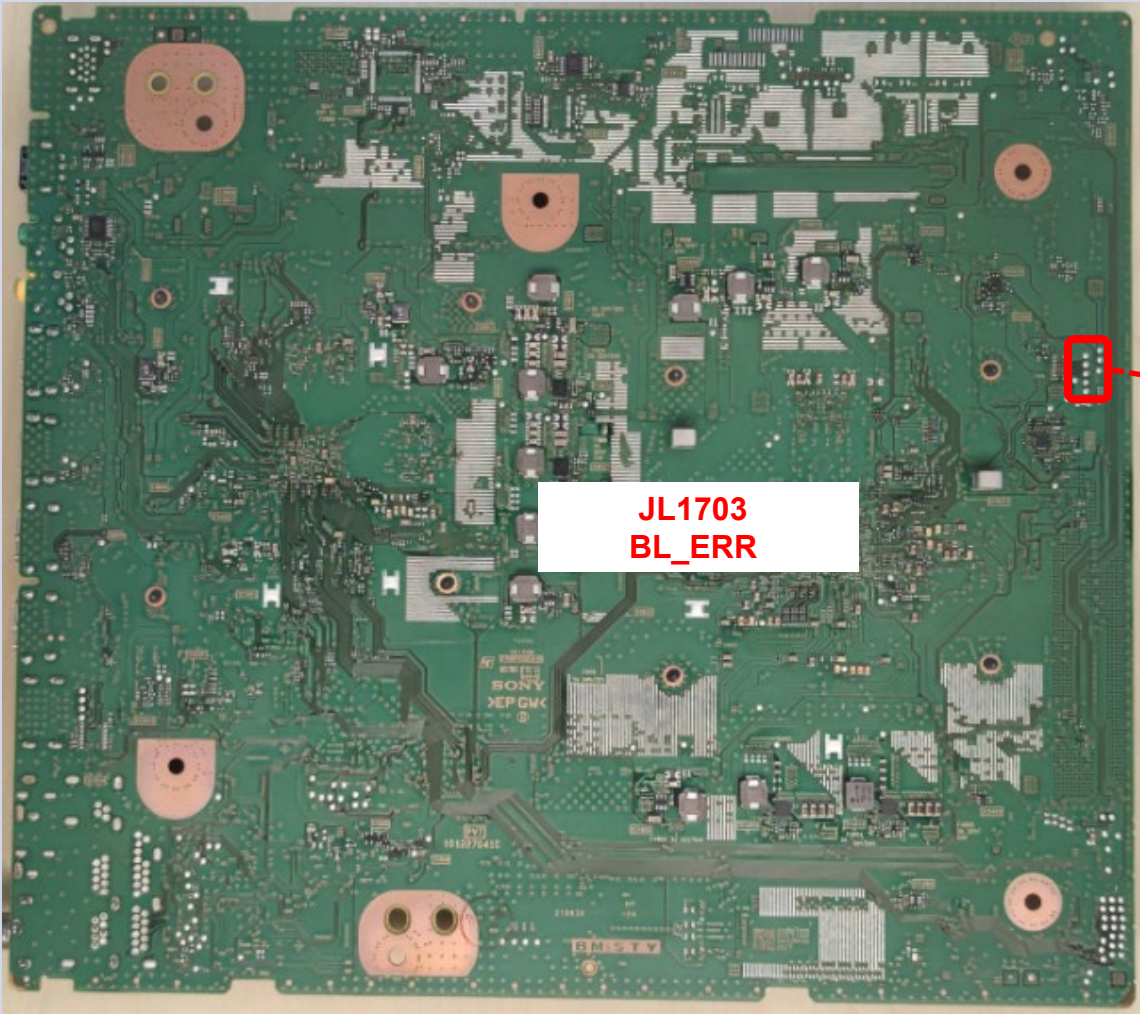
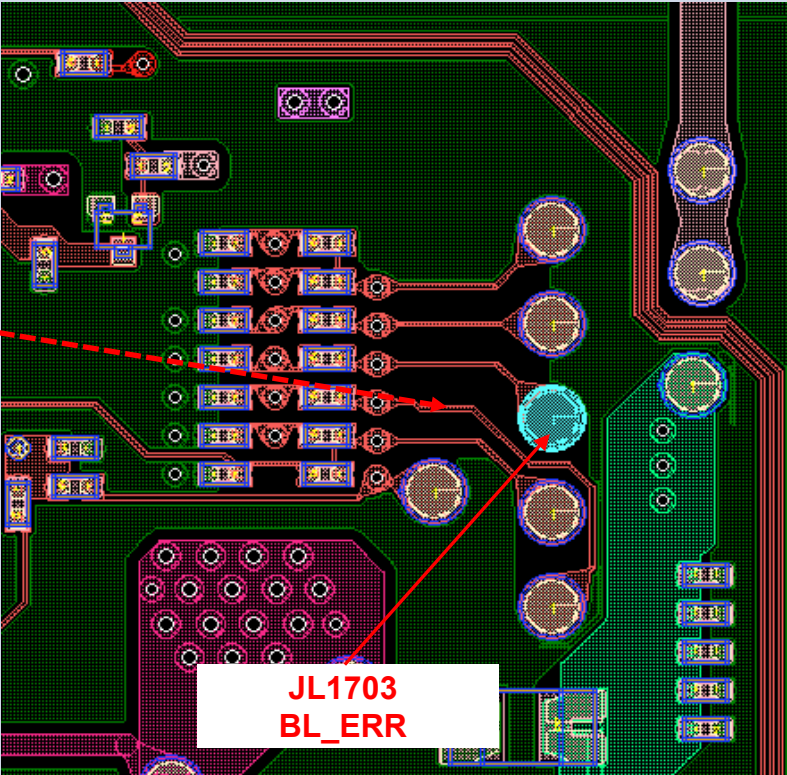
## TROUBLESHOOTING

### 2.6 LED Blinking: 6x (Backlight Error)



## TROUBLESHOOTING

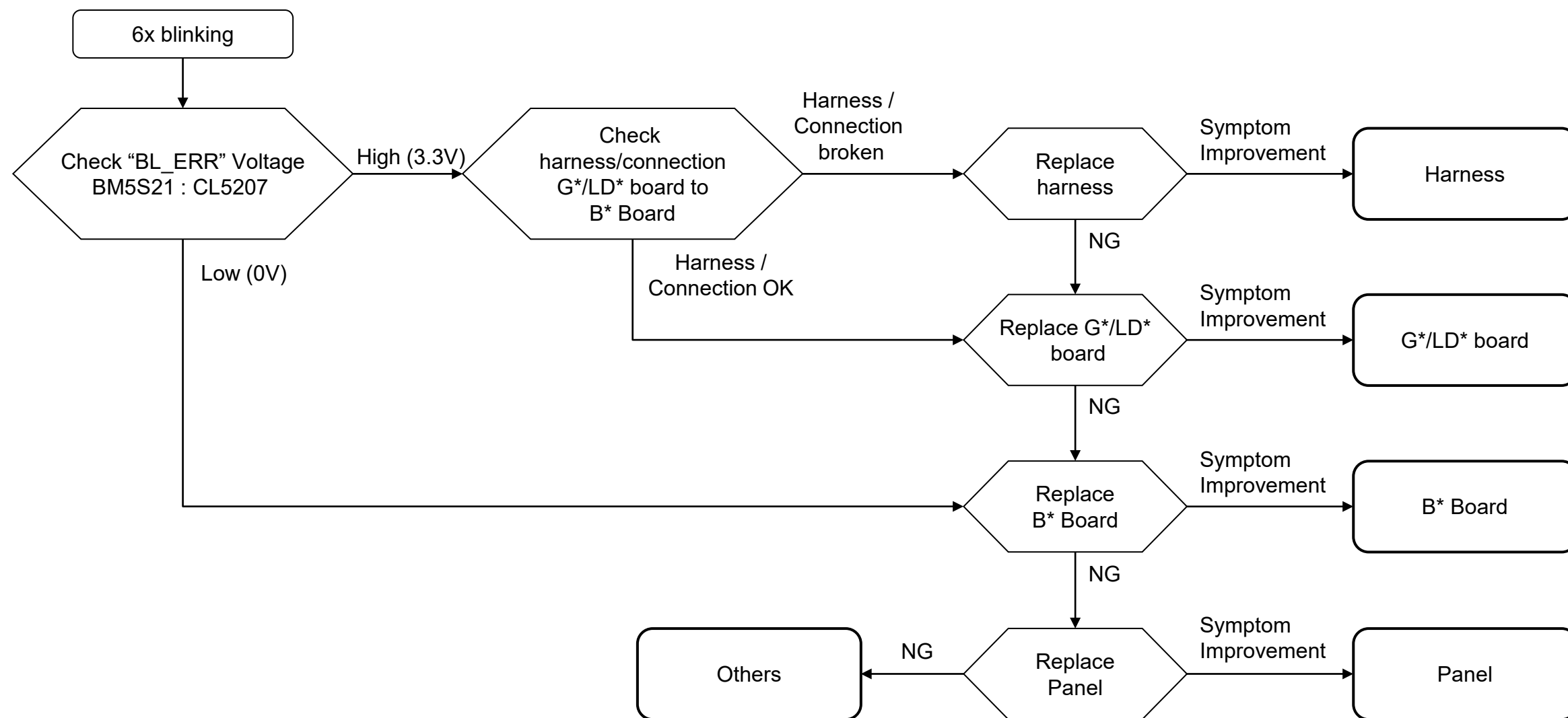
## Checking Point

Name	Board PWB (B side)	Detail
BM5S21/ BM5STY	 <p data-bbox="1003 893 1323 981"><b>JL1703 BL_ERR</b></p>	 <p data-bbox="2007 1157 2304 1236"><b>JL1703 BL_ERR</b></p>



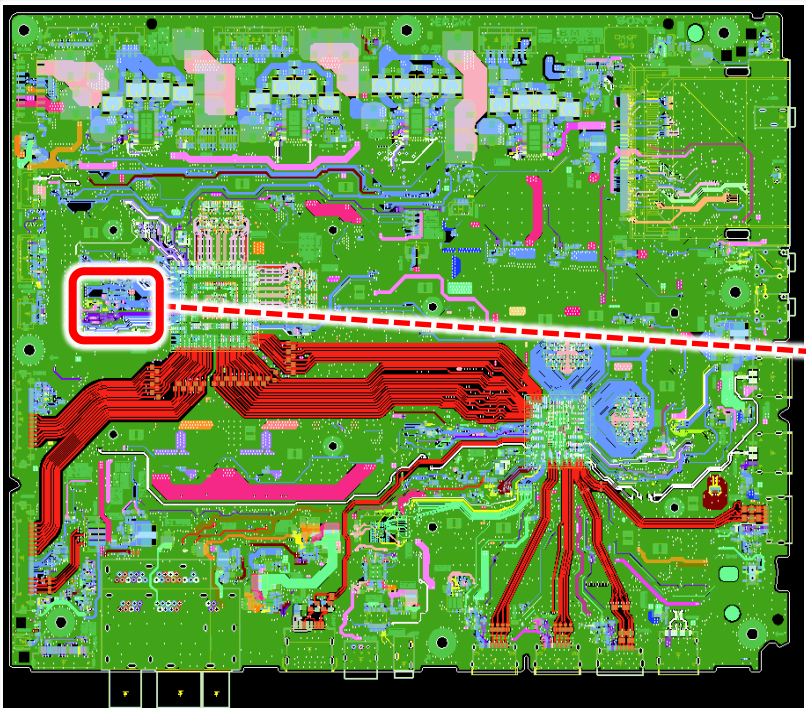
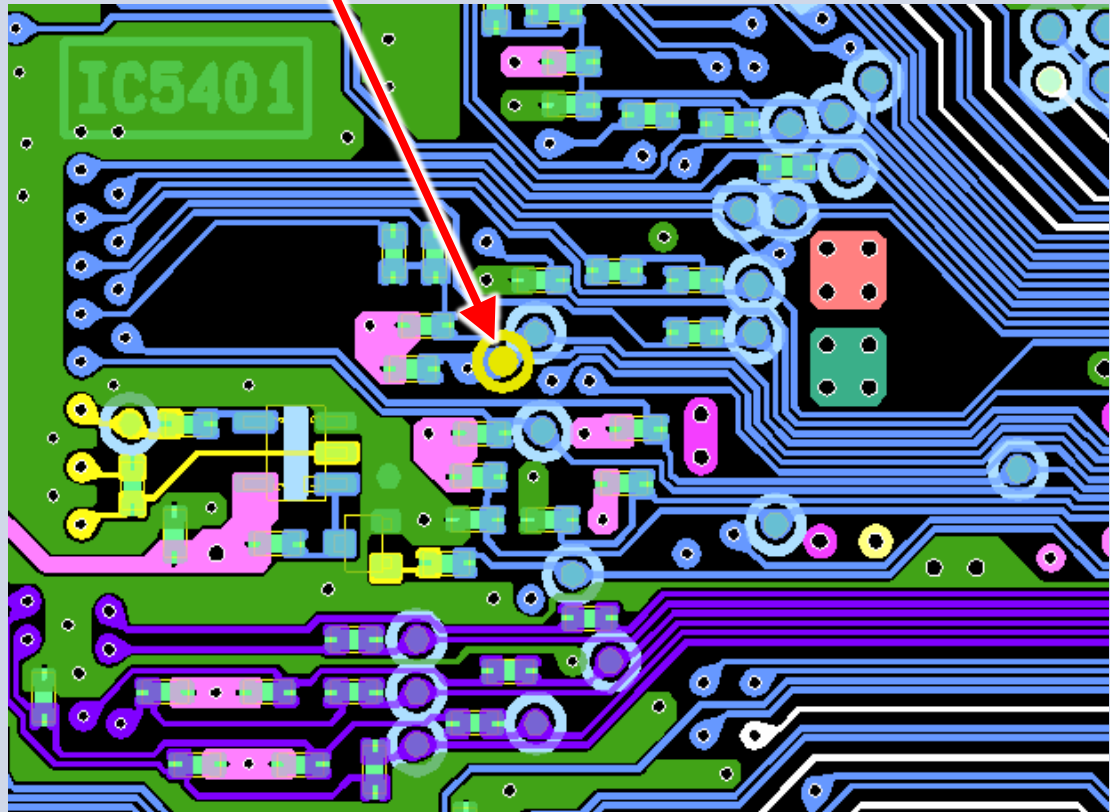
## TROUBLESHOOTING

### 2.6 LED Blinking: 6x (Backlight Error) – XR-83A80\*



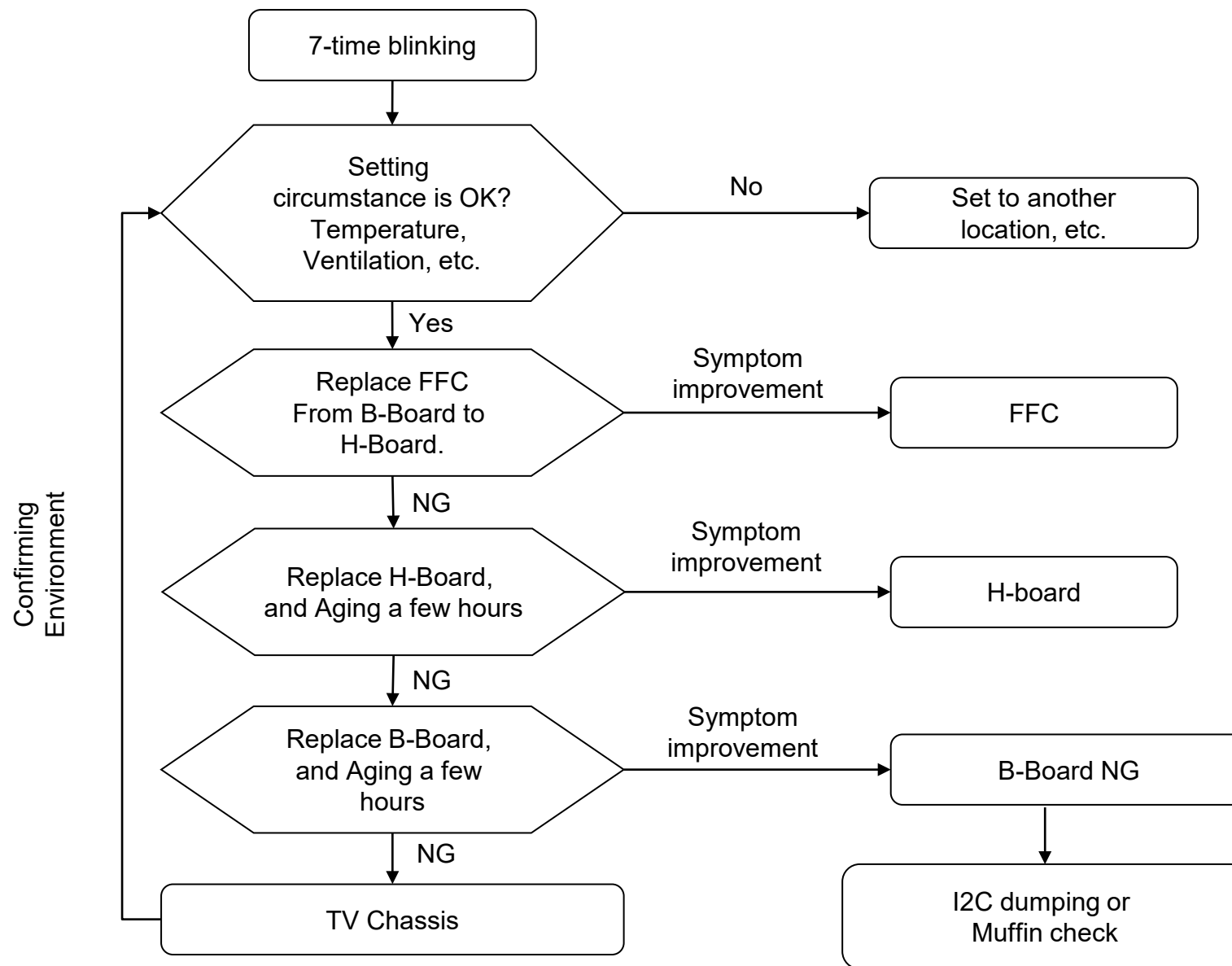
# TROUBLESHOOTING

## Checking Point – XR-83A80\*

Name	Board PWB (B side)	Detail
BM5S21	 <p>A photograph of the back side of a green printed wiring board (PWB). The board is populated with various components, including a large central chip and numerous smaller components. A red dashed rectangular box highlights a specific area on the left side of the board, which is magnified in the detail view.</p>	<p data-bbox="1527 375 1832 494">CL5207 BL_ERR</p>  <p>A magnified view of the area highlighted in the board PWB. It shows a complex network of blue and purple traces on a green substrate. A yellow circle highlights a specific component or connection point. A red arrow points from a white text box above to this yellow circle. The text box contains the labels 'CL5207' and 'BL_ERR'. In the upper left of this detail view, the label 'IC5401' is visible on a green component.</p>

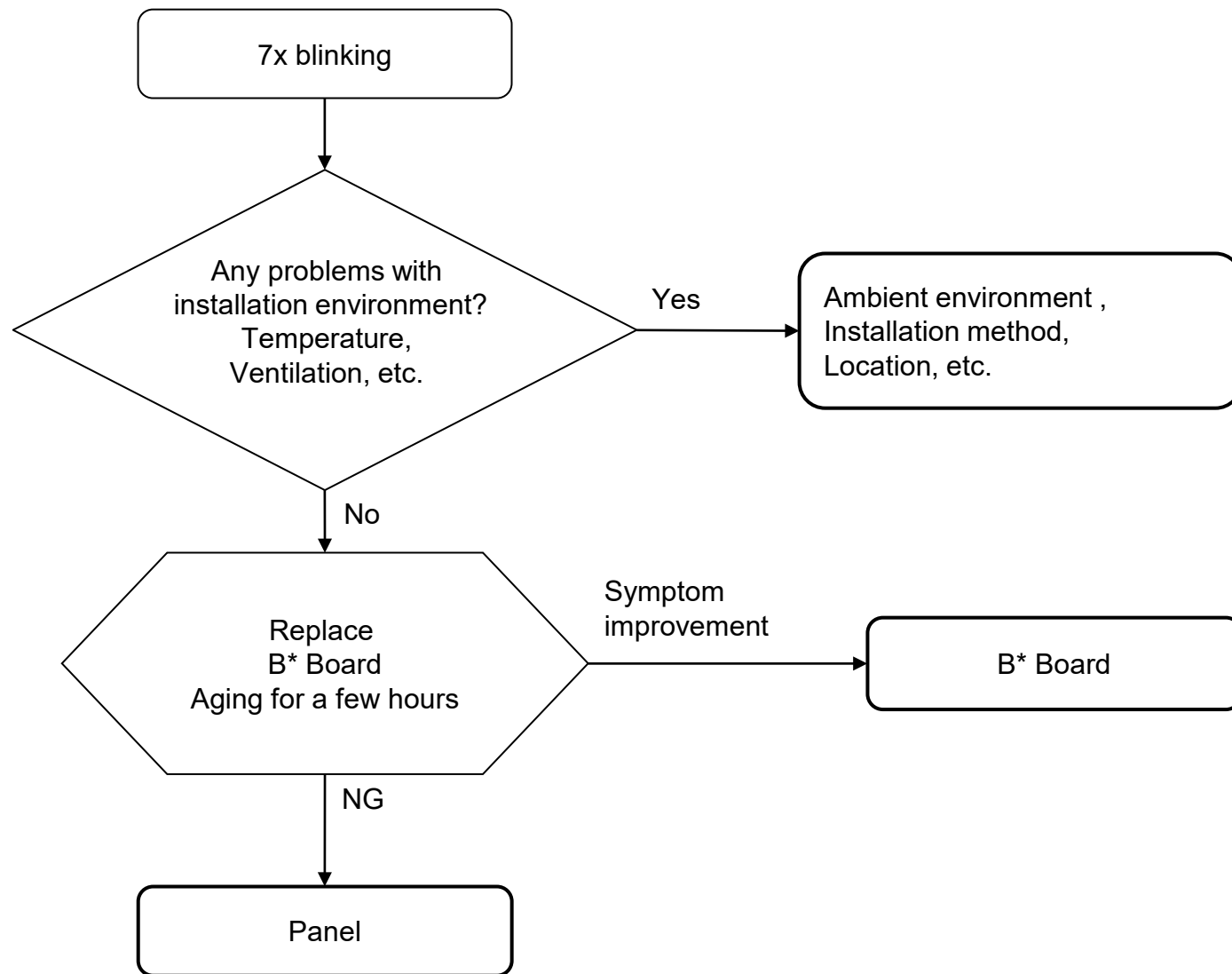
# TROUBLESHOOTING

## 2.7 LED Blinking: 7x (Temperature Error)



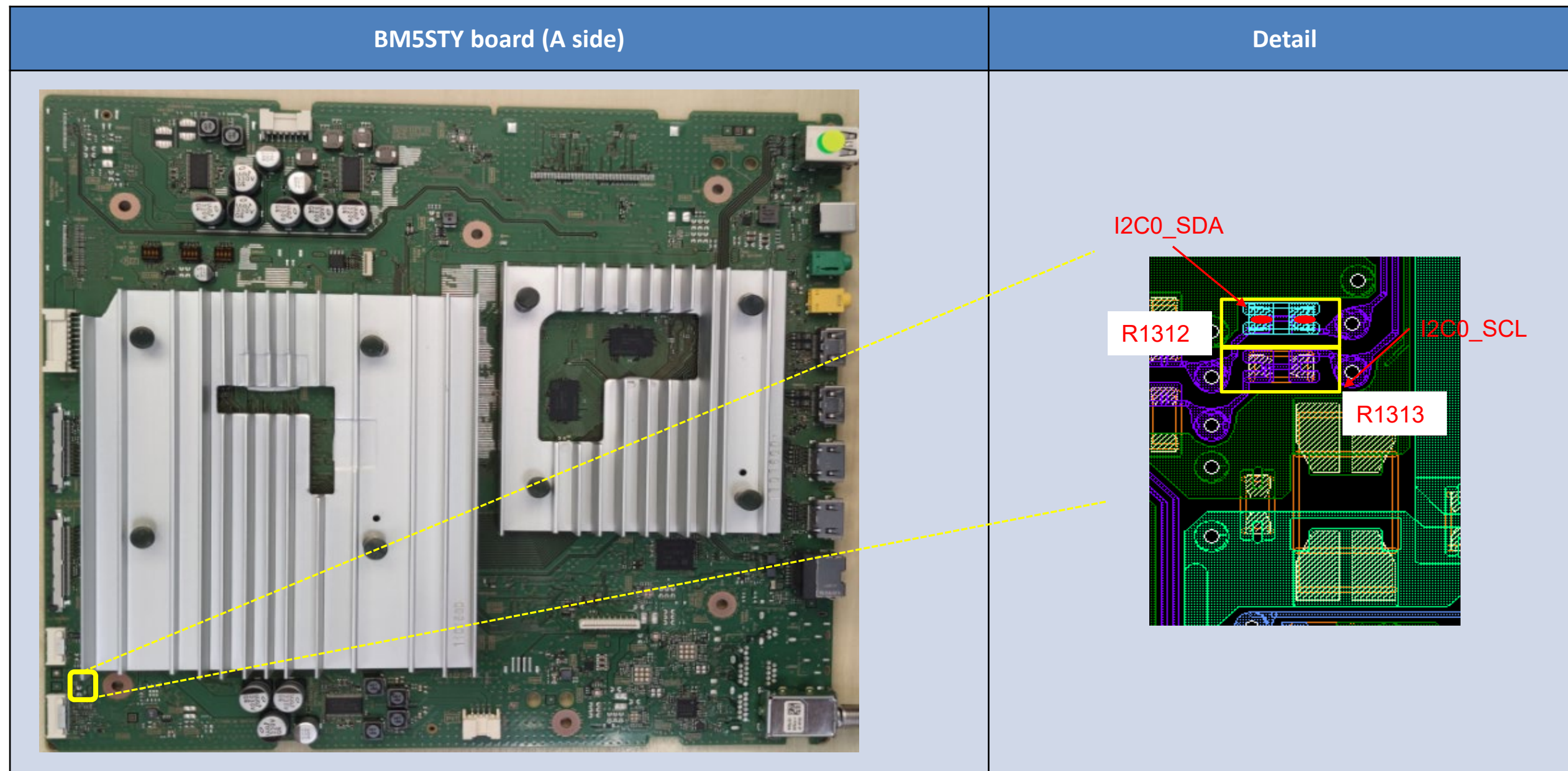
# TROUBLESHOOTING

## 2.7 LED Blinking: 7x (Temperature Error) – XR-83A80\*



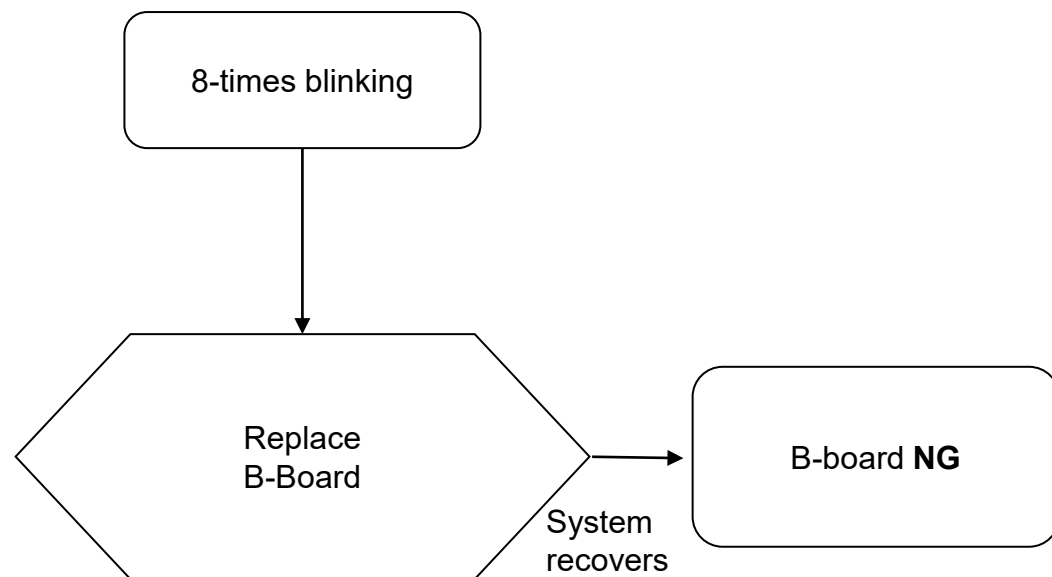
# TROUBLESHOOTING

## Checking Point



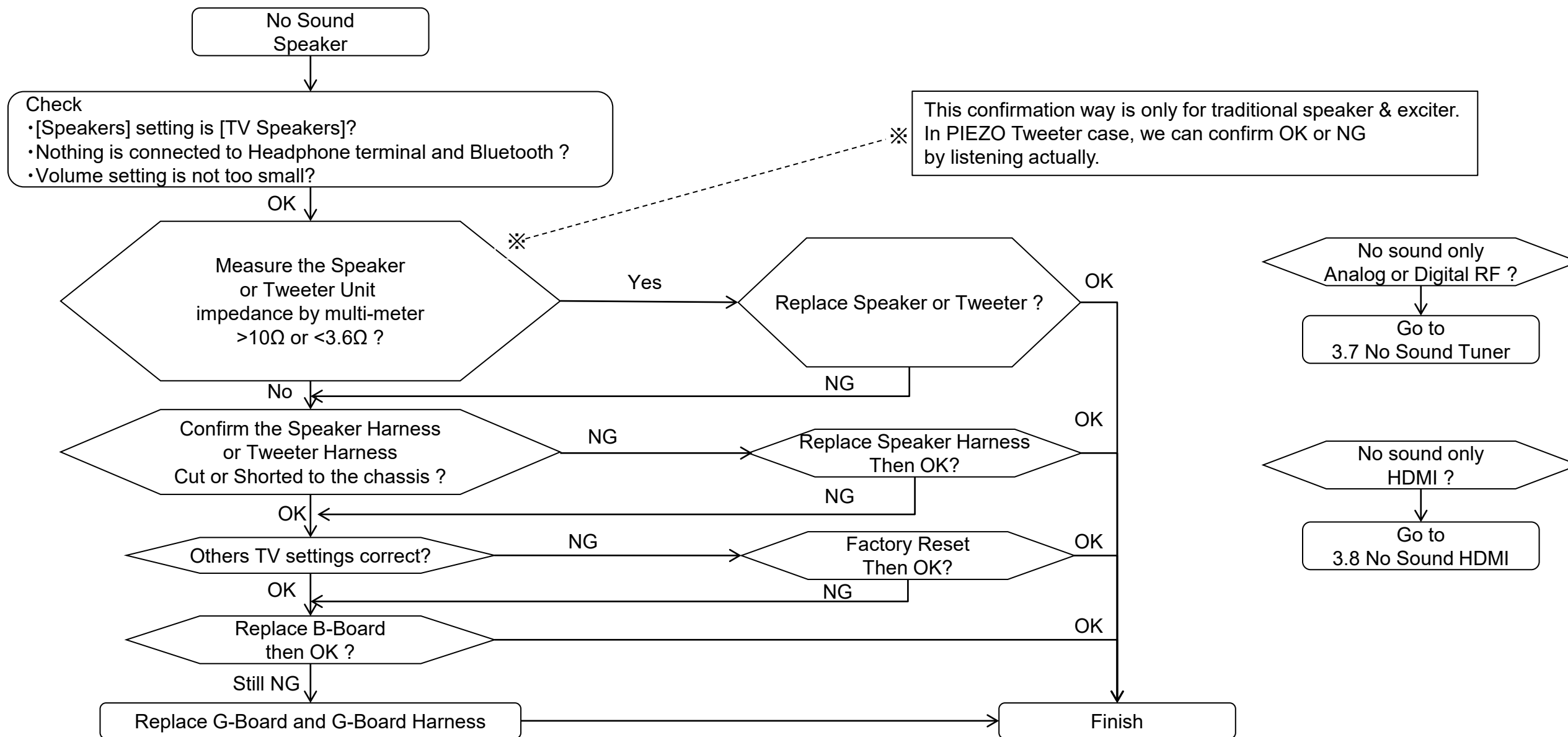
## TROUBLESHOOTING

### 2.8 LED Blinking : 8x Blinking



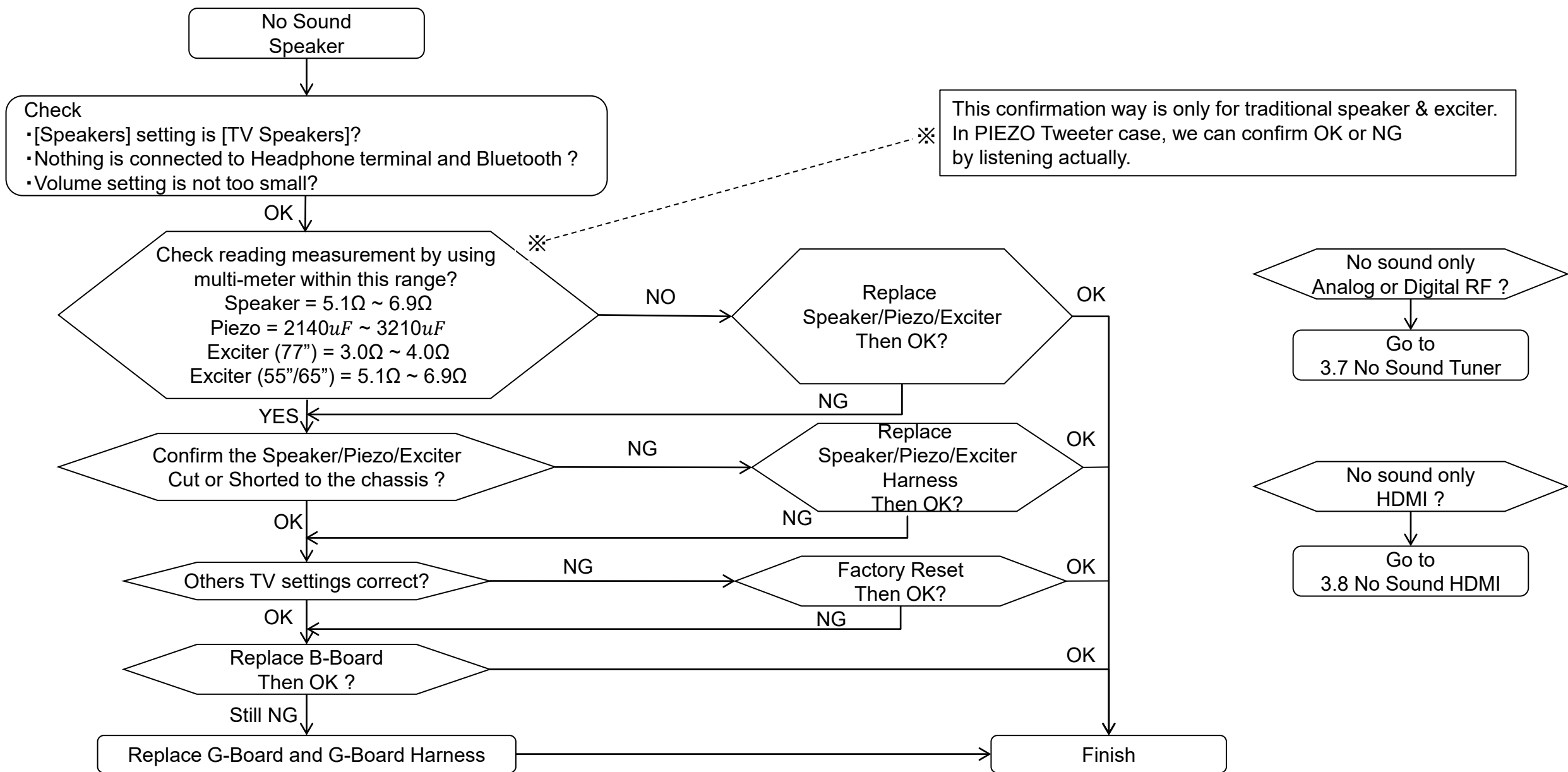
# TROUBLESHOOTING

## 3.1 No Sound for Speaker – XR-\*80K / \*80CK



# TROUBLESHOOTING

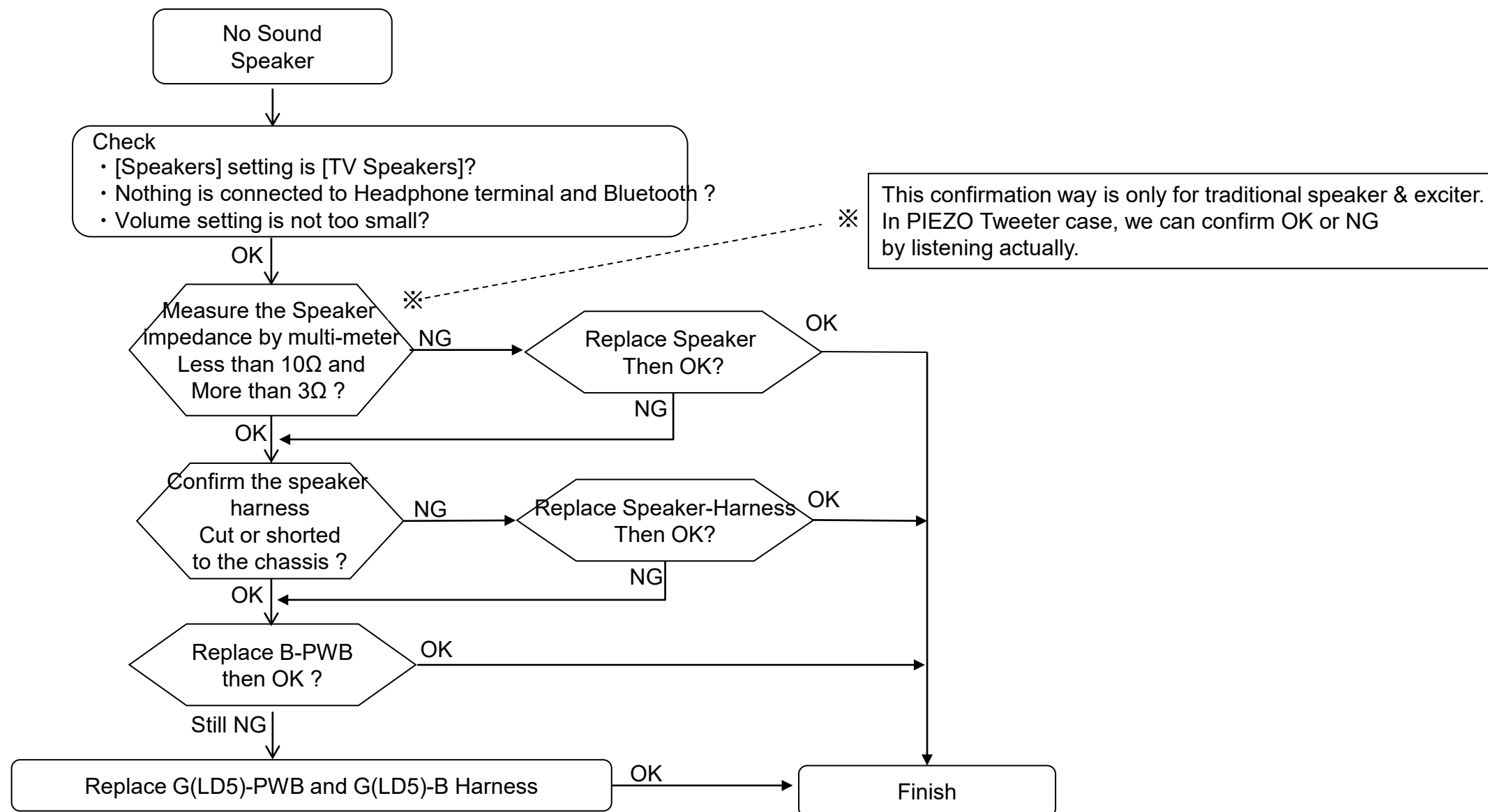
## 3.1 No Sound for Speaker – XR-\*A80L / \*A80CL





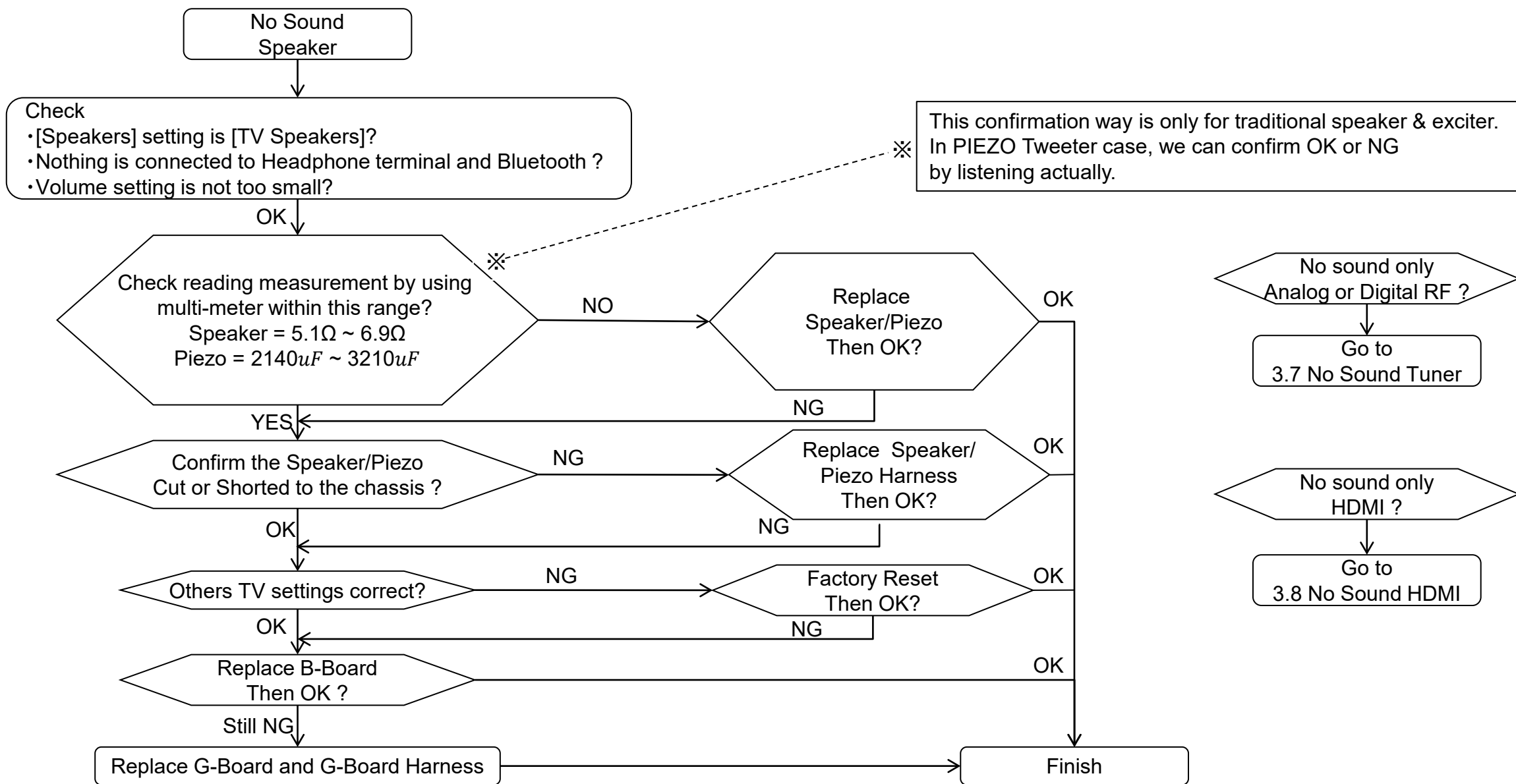
## TROUBLESHOOTING

### 3.1 No Sound for Speaker – XR-83A80\*



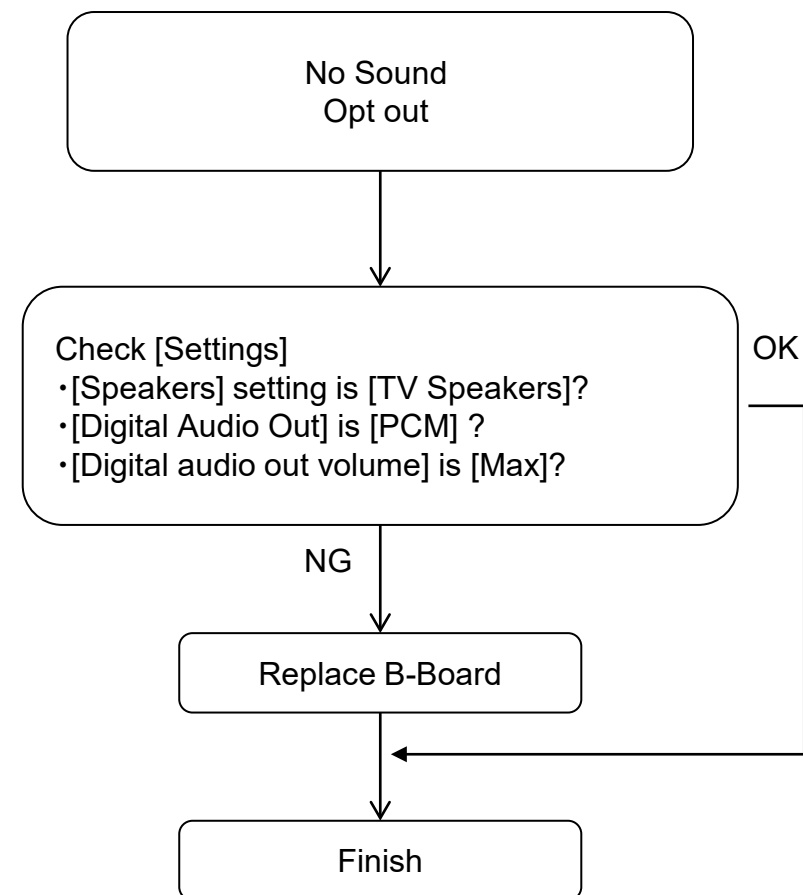
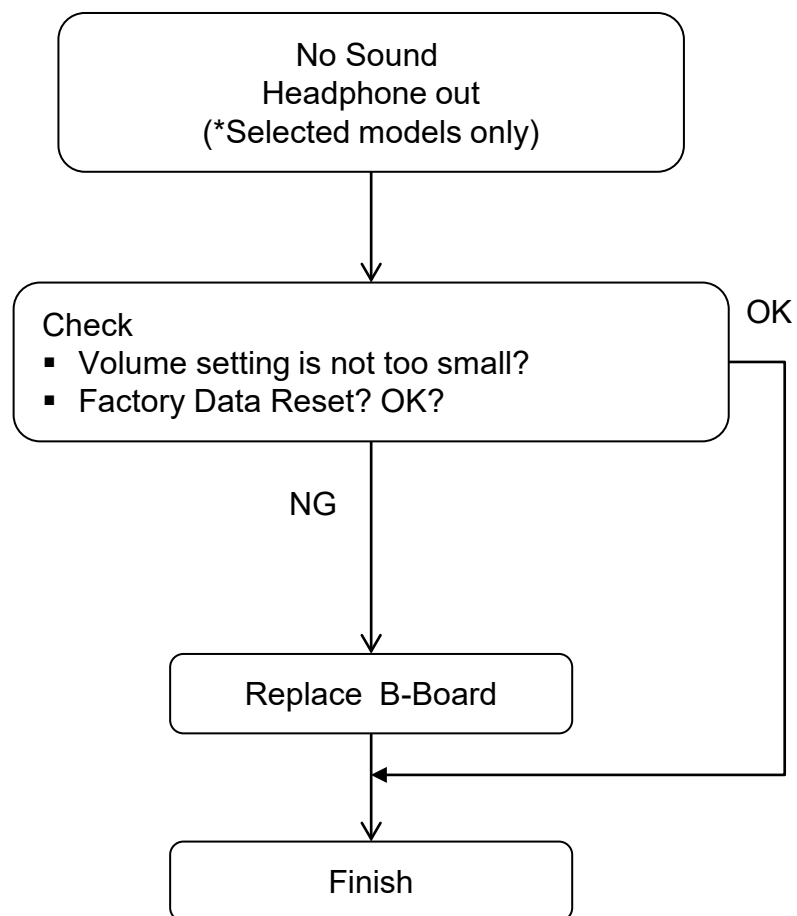
# TROUBLESHOOTING

## 3.1 No Sound for Speaker – XR-\*A75L



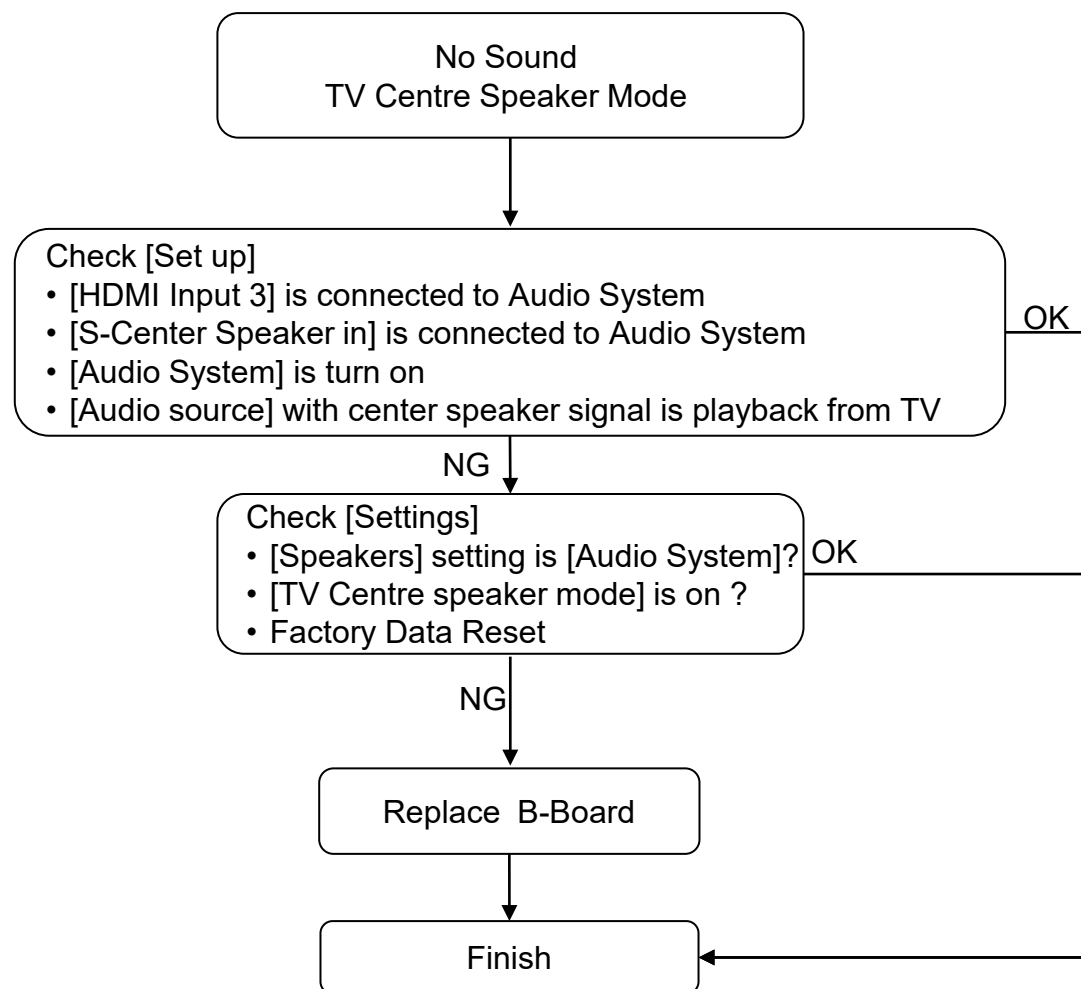
## TROUBLESHOOTING

### 3.2 No Sound for Headphone out/ Audio out/Optical out



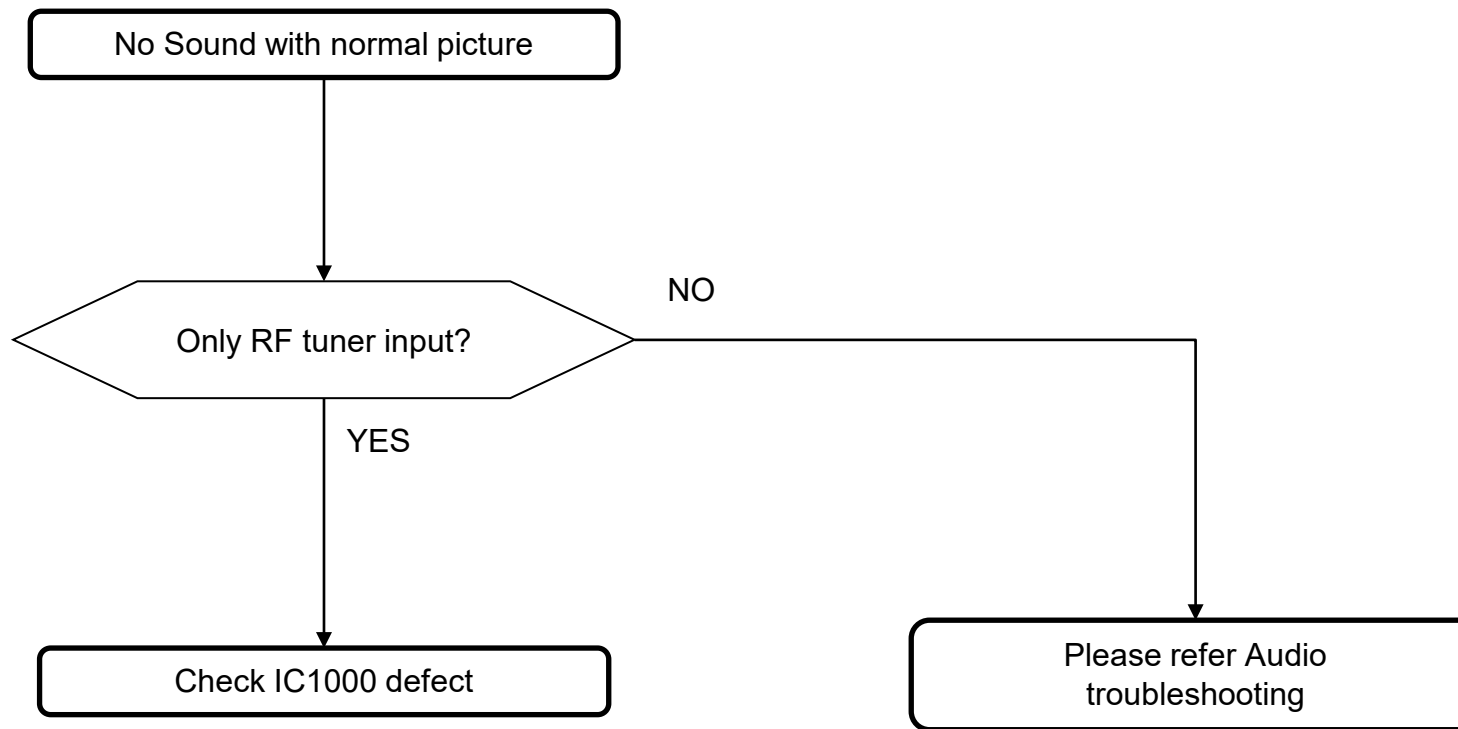
## TROUBLESHOOTING

### 3.3 No Sound for TV Centre Speaker Mode



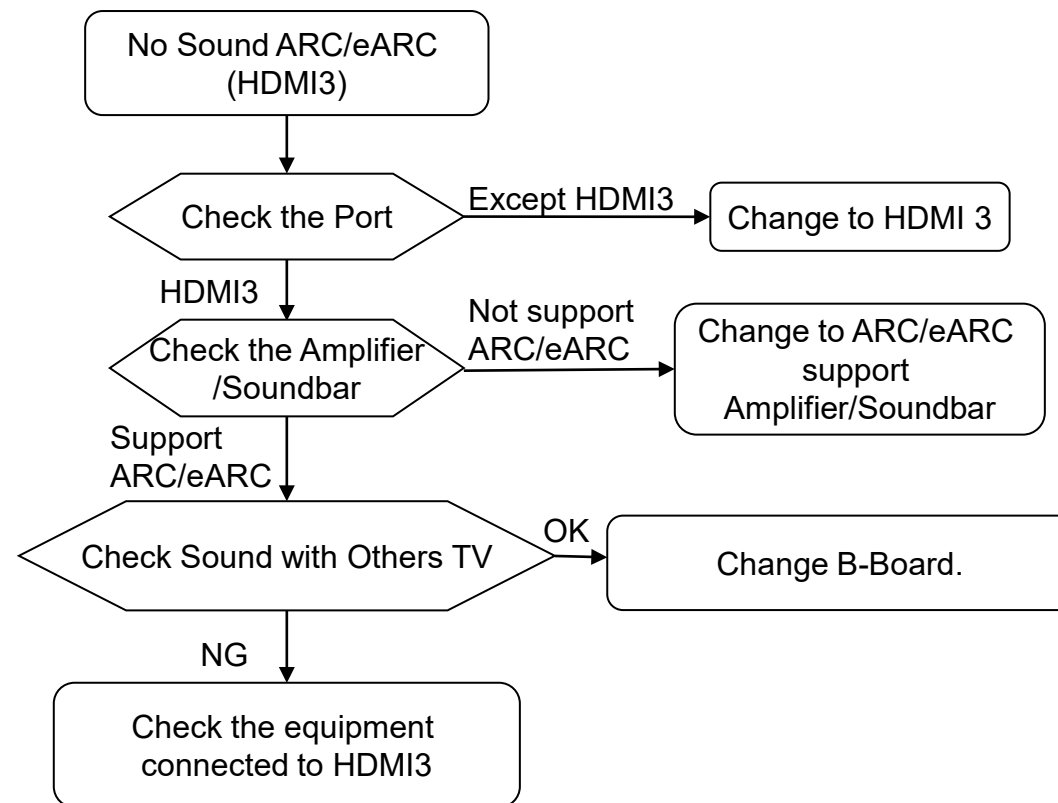
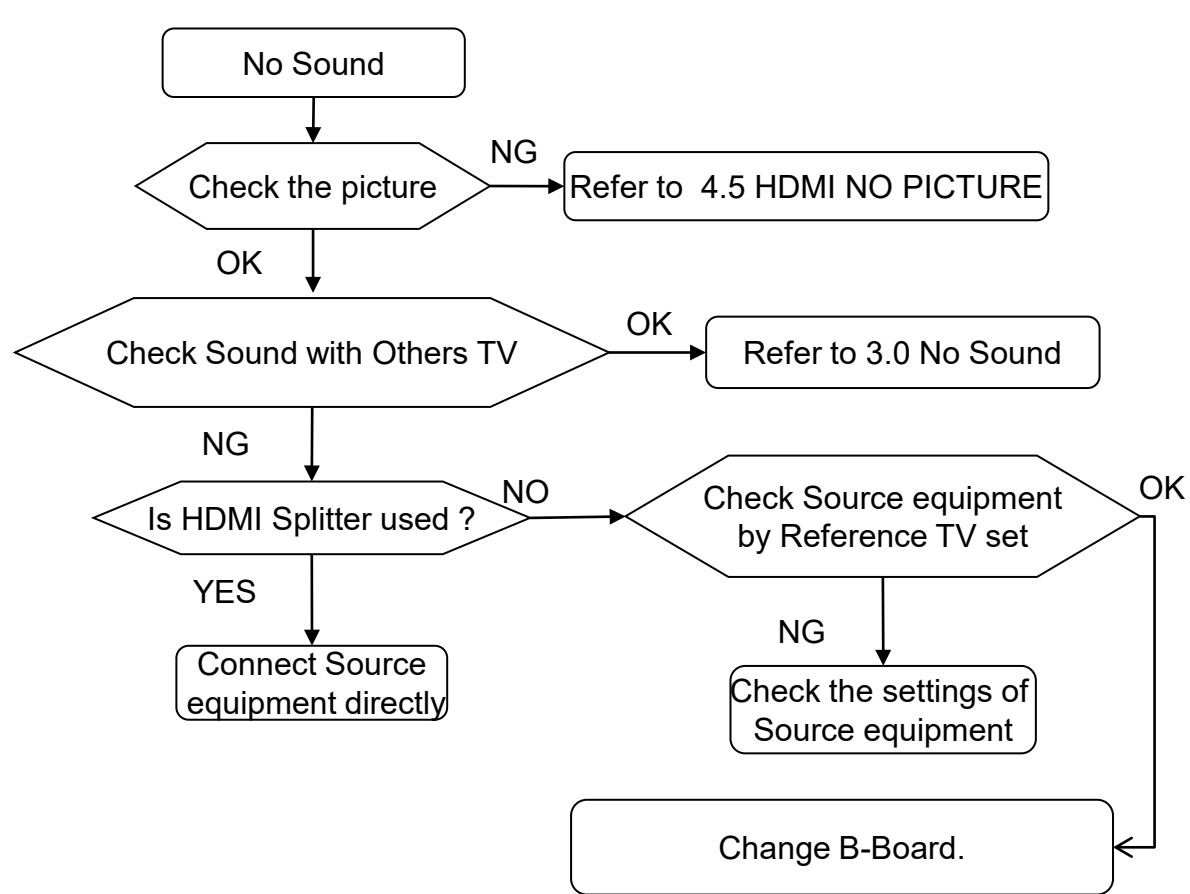
# TROUBLESHOOTING

## 3.7 No Sound at Tuner



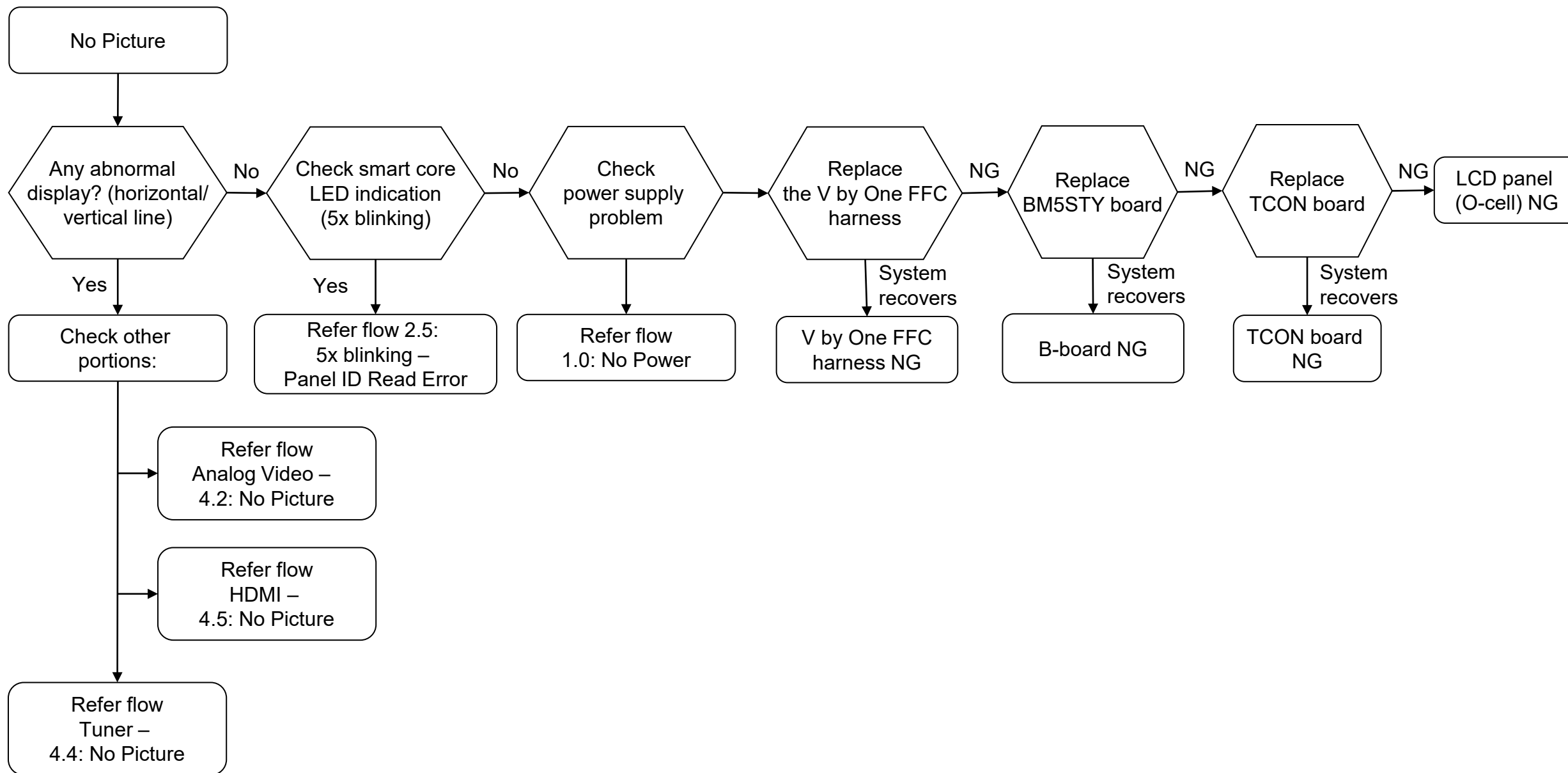
# TROUBLESHOOTING

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



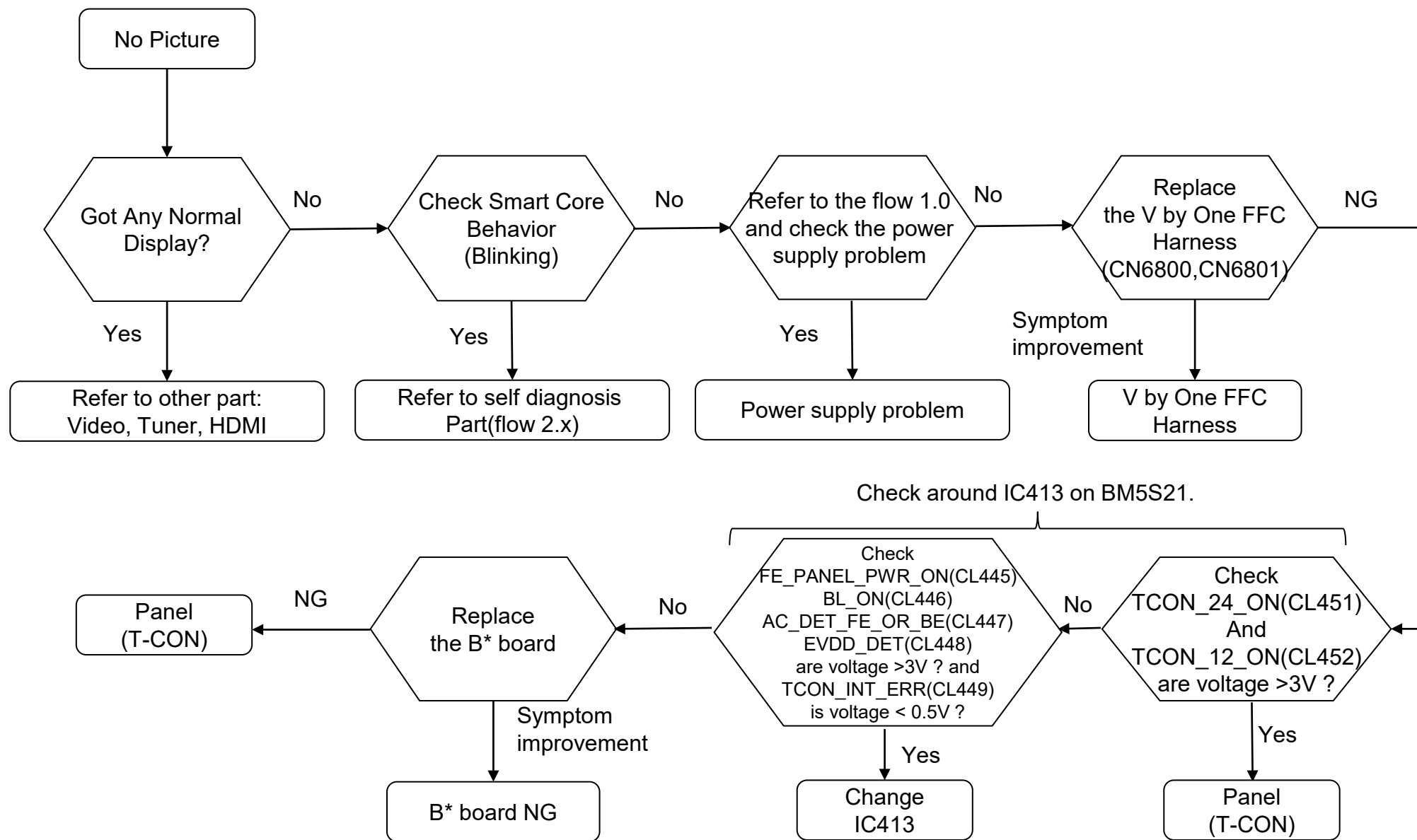
# TROUBLESHOOTING

## 4.0 No Picture



# TROUBLESHOOTING

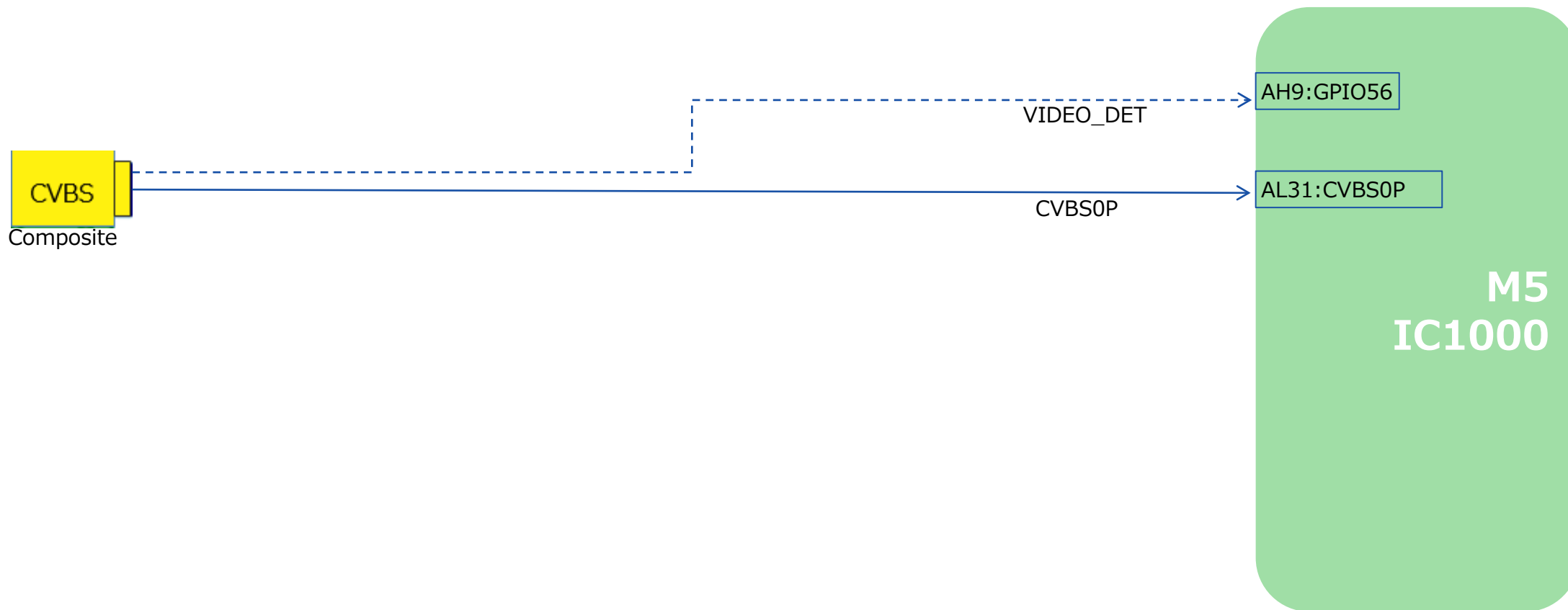
## 4.0 No Picture – XR-83A80\*





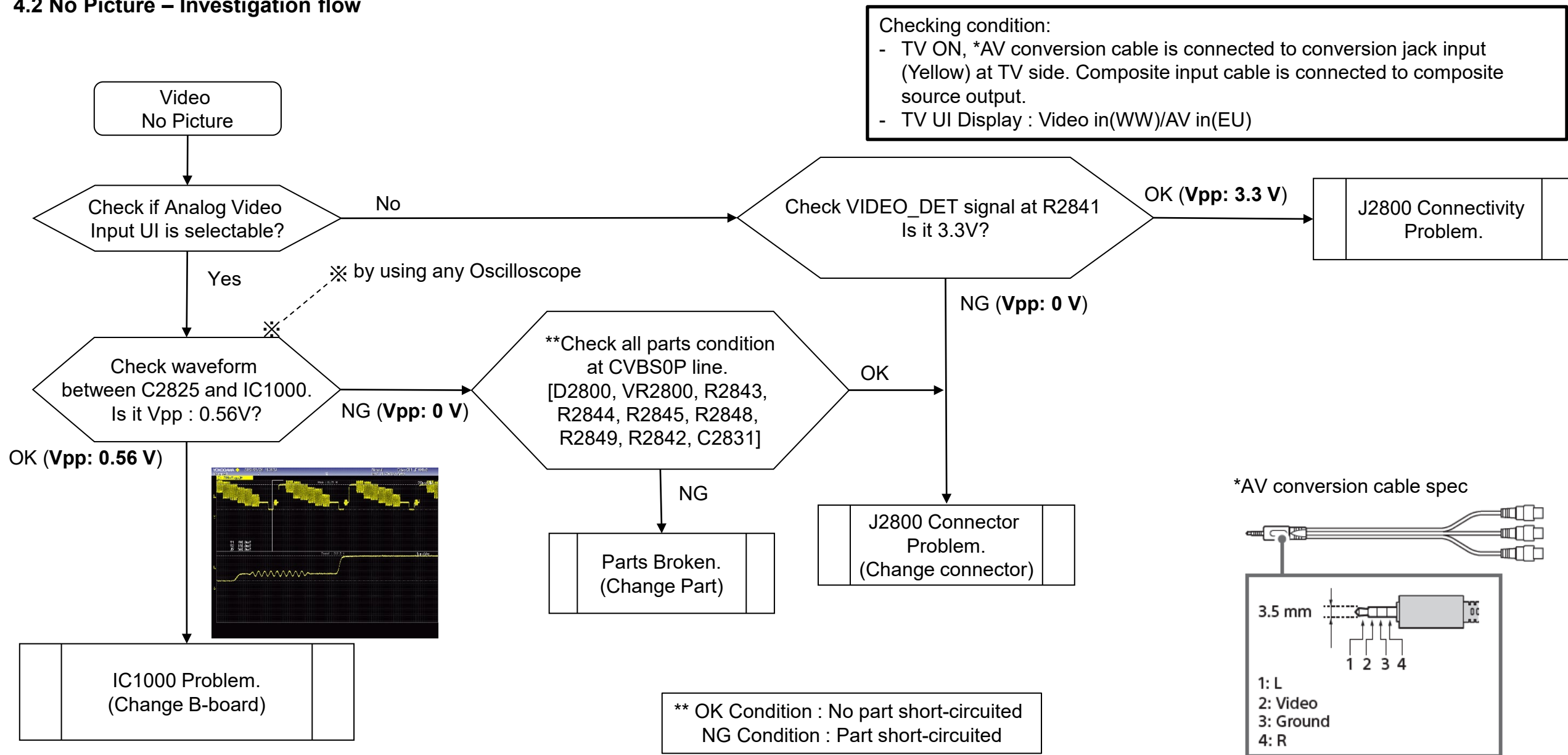
# TROUBLESHOOTING

## 4.1 Analog Video Signal Path



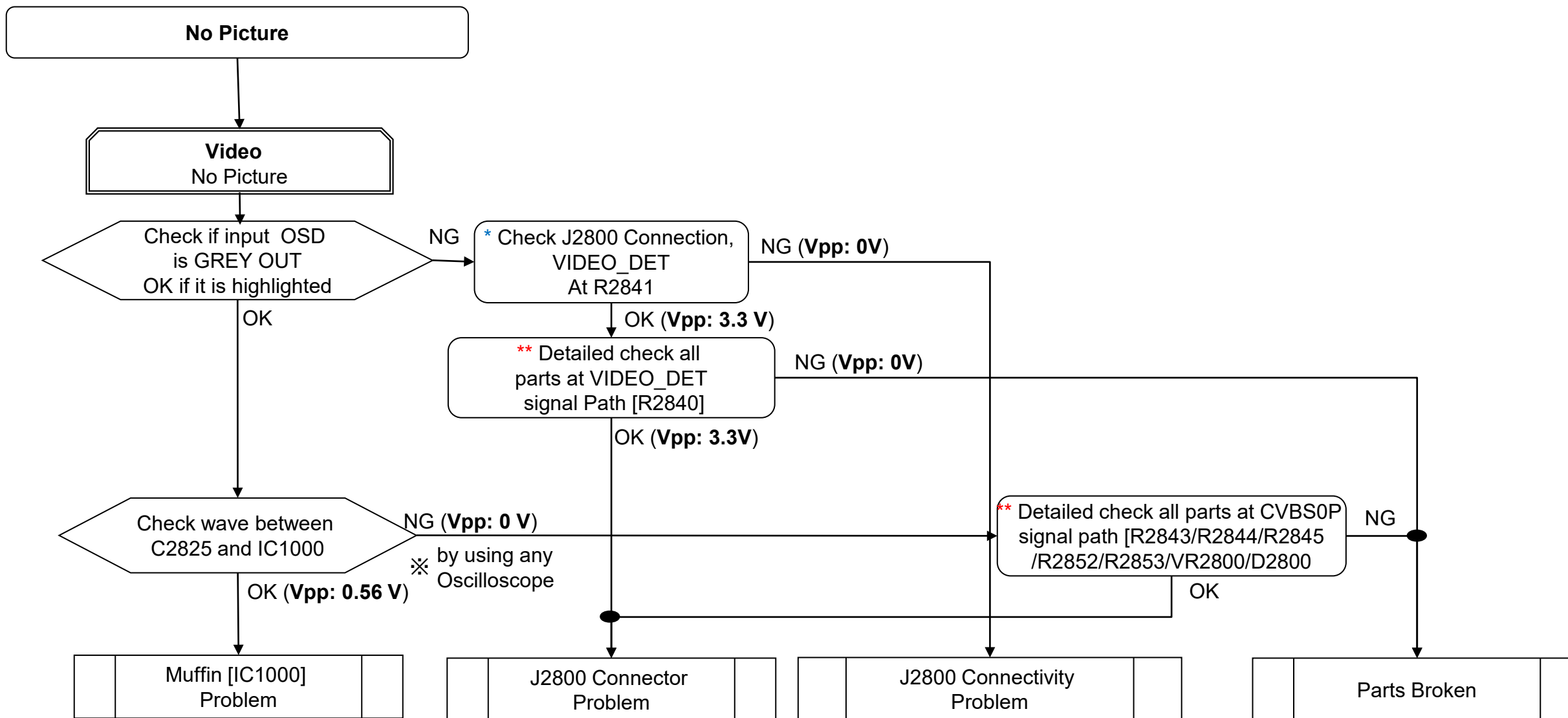
# TROUBLESHOOTING

## 4.2 No Picture – Investigation flow



# TROUBLESHOOTING

## 4.2 No Picture – Investigation flow – XR-83A80\*



\* → OK Condition : No solder splash can be seen  
 → NG Condition : Solder splash can be seen

\*\* → OK Condition : No part short-circuited  
 → NG Condition : Part short-circuited

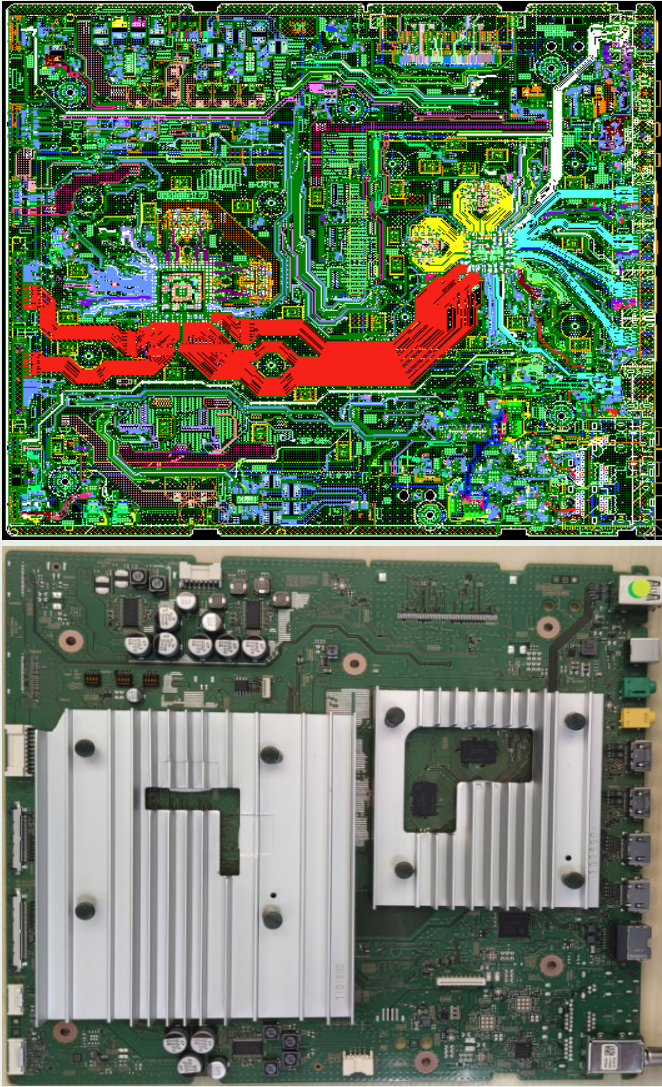
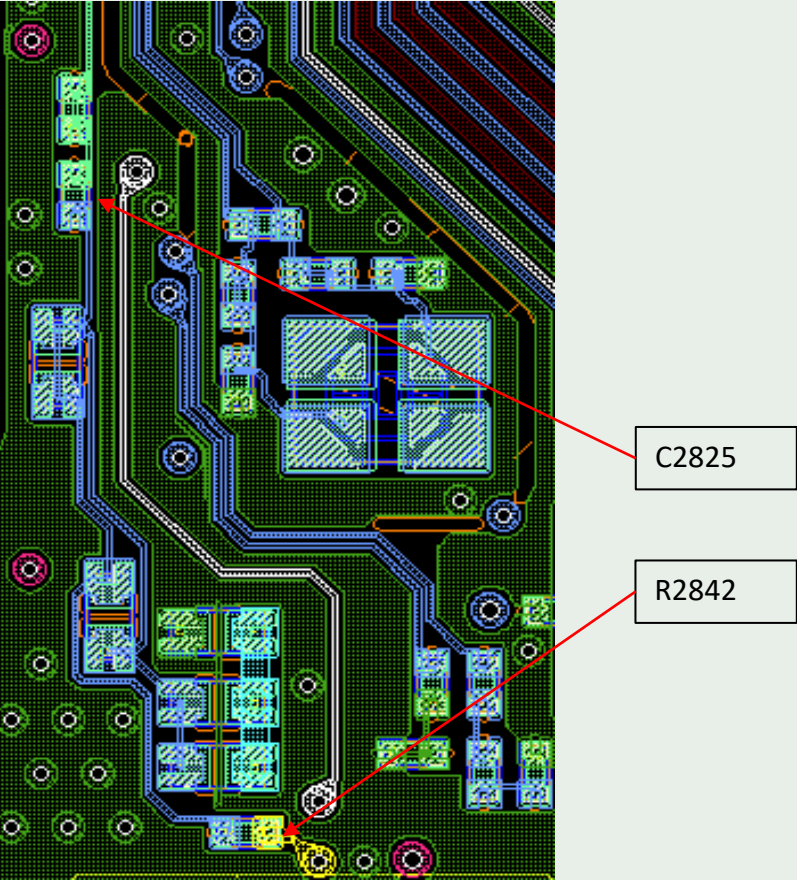
## TROUBLESHOOTING

### 4.2 No Picture - Actions

Condition	Actions to be taken						
<table border="1"><tr><td data-bbox="653 595 701 700"></td><td data-bbox="701 595 964 700">Muffin [IC1000] Problem</td><td data-bbox="964 595 1006 700"></td></tr></table>		Muffin [IC1000] Problem		Change B-board			
	Muffin [IC1000] Problem						
<table border="1"><tr><td data-bbox="653 746 701 852"></td><td data-bbox="701 746 964 852">Connector Problem</td><td data-bbox="964 746 1006 852"></td></tr><tr><td data-bbox="653 879 701 984"></td><td data-bbox="701 879 964 984">Connectivity Problem</td><td data-bbox="964 879 1006 984"></td></tr></table>		Connector Problem			Connectivity Problem		Change Connector
	Connector Problem						
	Connectivity Problem						
<table border="1"><tr><td data-bbox="653 1054 701 1160"></td><td data-bbox="701 1054 964 1160">Parts Broken</td><td data-bbox="964 1054 1006 1160"></td></tr></table>		Parts Broken		Change Part according to ** remarks			
	Parts Broken						

## TROUBLESHOOTING

### 4.2 No Picture – Parts Location

Board Name	Board PWB (A-side)	Details
BM5STY R2842, C2825		

## TROUBLESHOOTING

## 4.2 No Picture – Parts Location

Board Name	Board PWB (B-side)	Details
BM5STY  D2800, VR2800, R2843, R2844, R2845, R2848, R2849, C2831, R2841		

## TROUBLESHOOTING

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### 4.3 Input Skip Function

Under default condition:

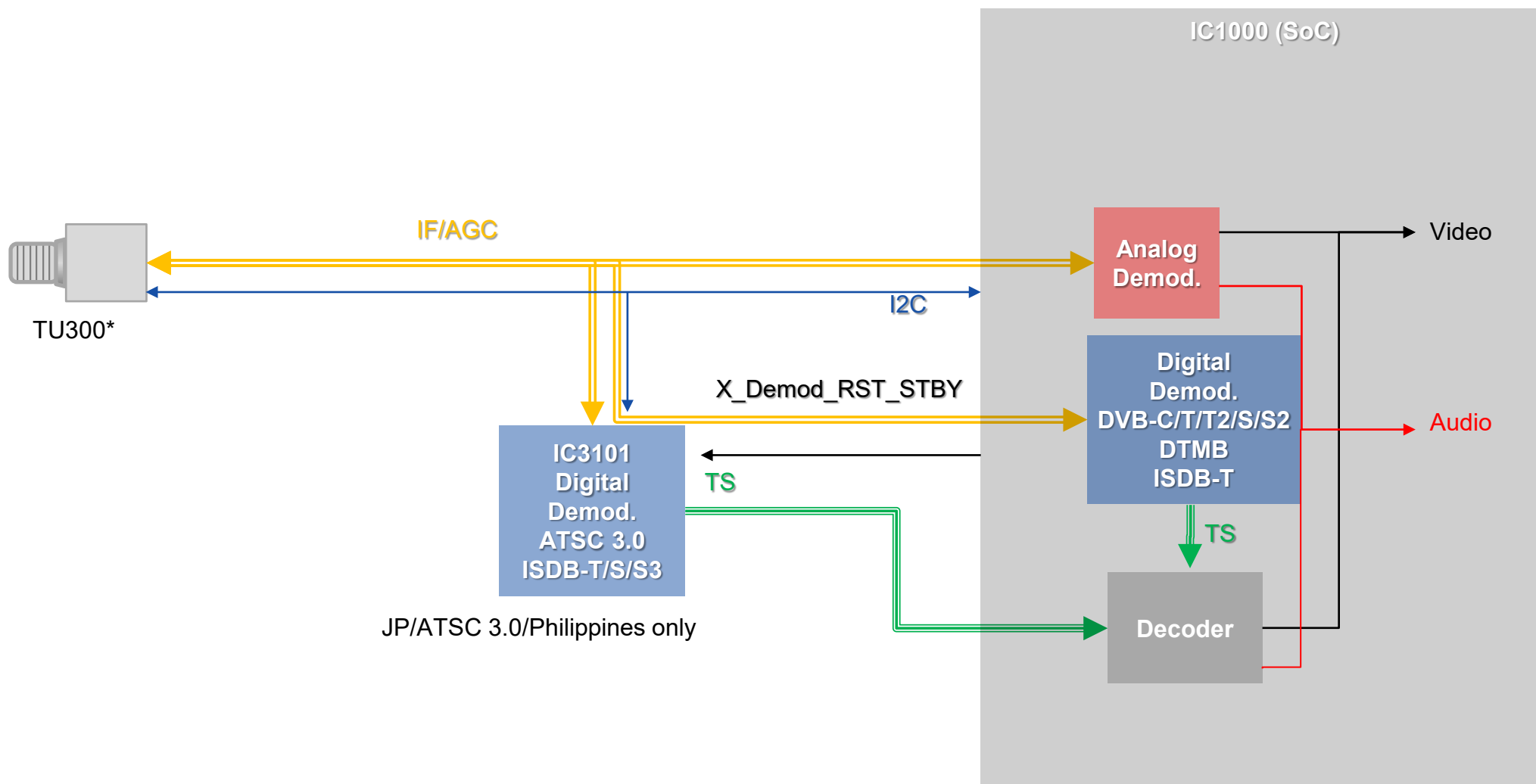
If user insert analog video cables into video jacks, the Video/Component will be highlighted and can be selected.

The detection mechanism is based on below tables.

Input	Signal	Non-Detect (Typical)	Detect (Typical)
VIDEO IN /AV IN	VIDEO_DET IC1000 AH9-GPIO56	0V	3.3V

# TROUBLESHOOTING

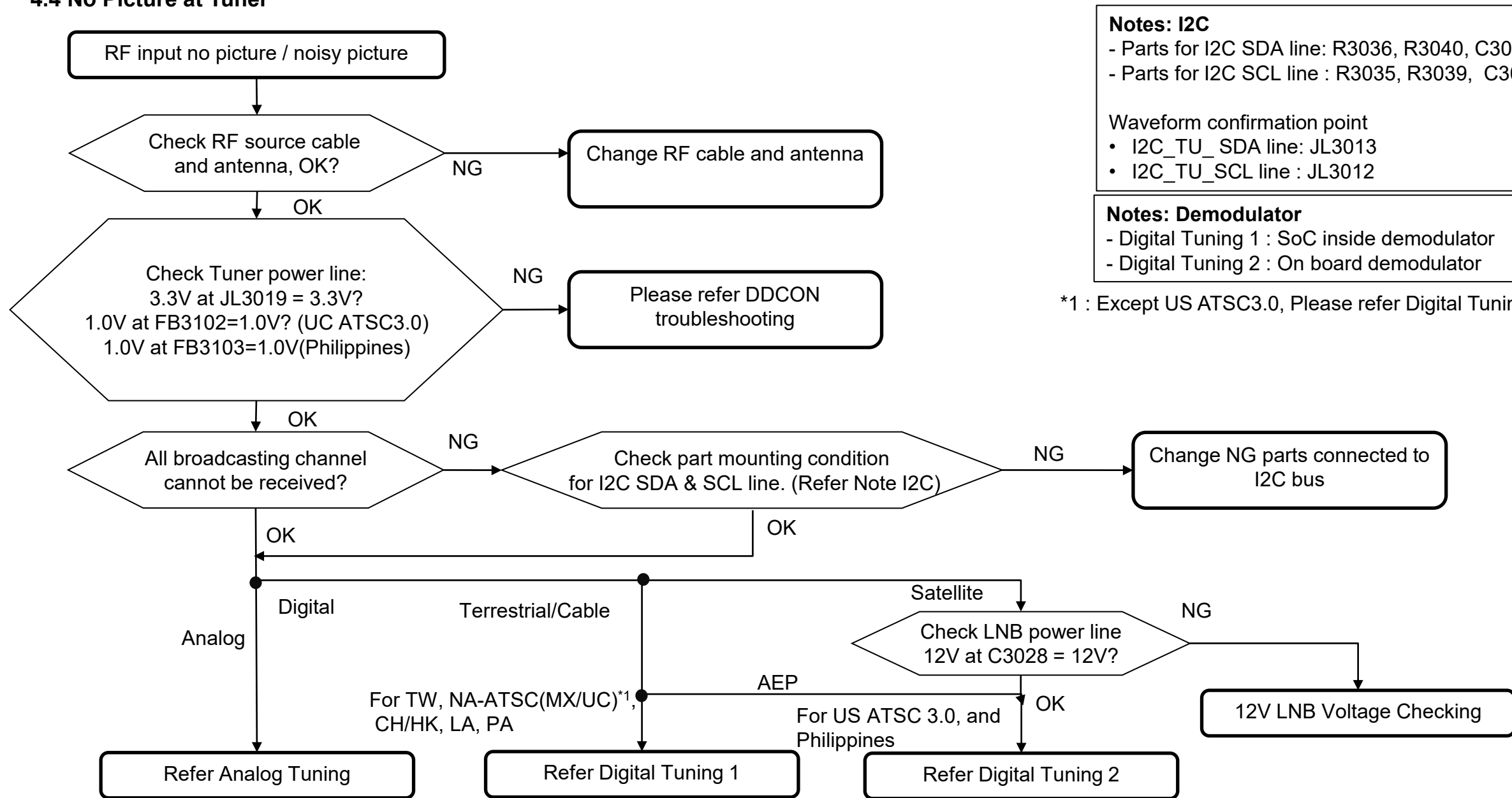
## 4.4 No Picture at Tuner





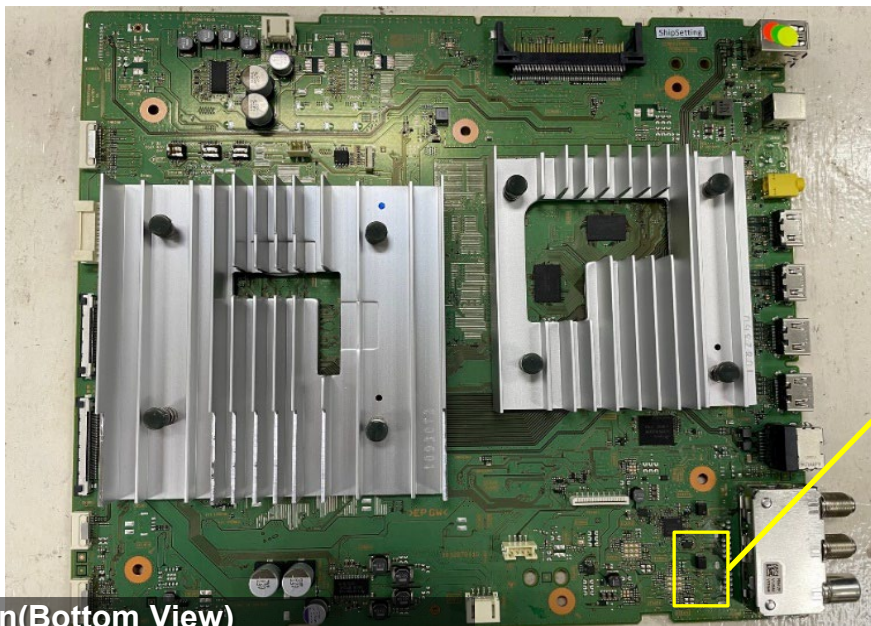
# TROUBLESHOOTING

## 4.4 No Picture at Tuner

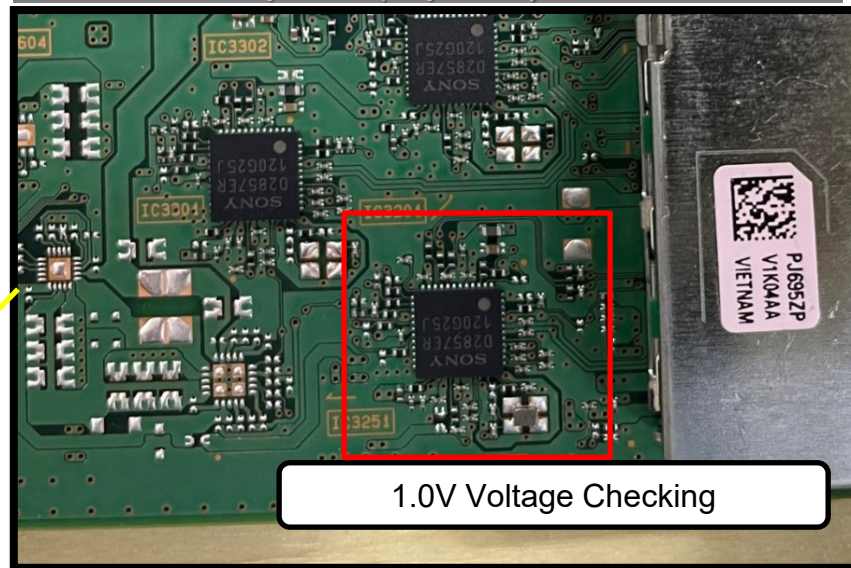


# TROUBLESHOOTING

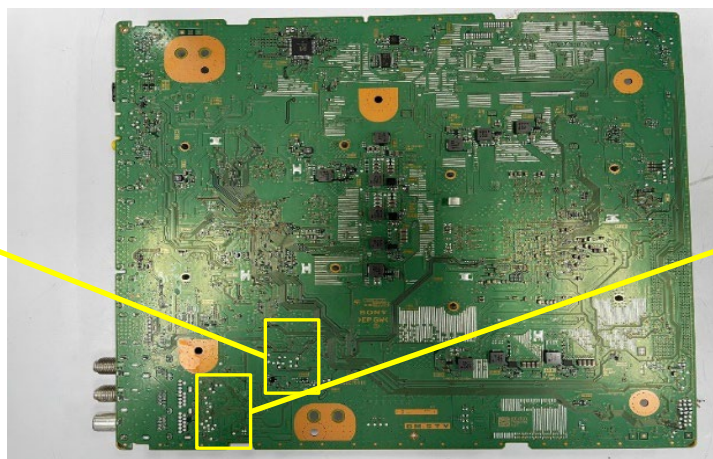
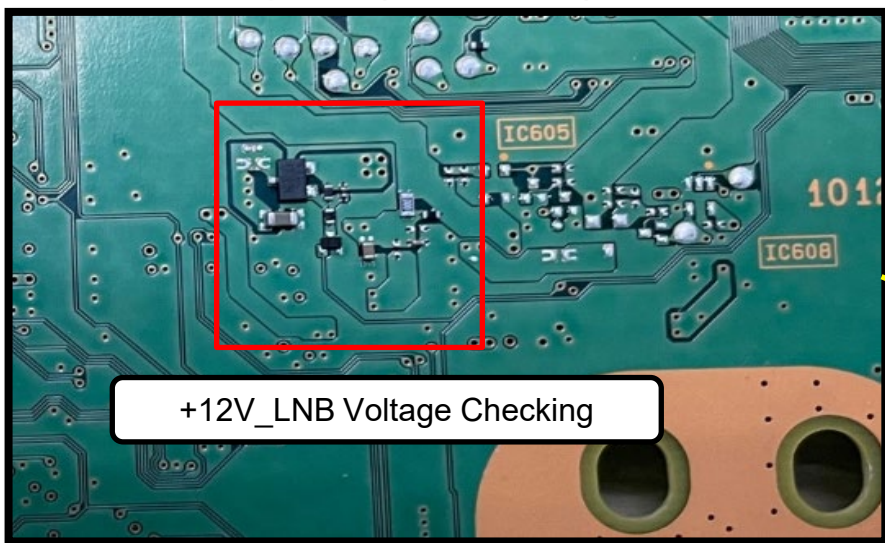
## 4.4 No Picture at Tuner



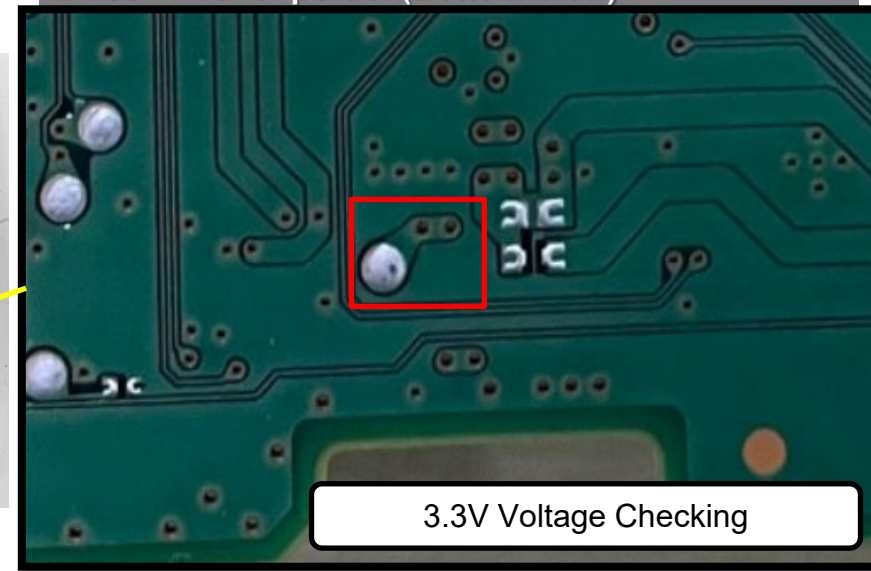
BM5STY Tuner portion(Top View)



BM5STY Tuner portion(Bottom View)



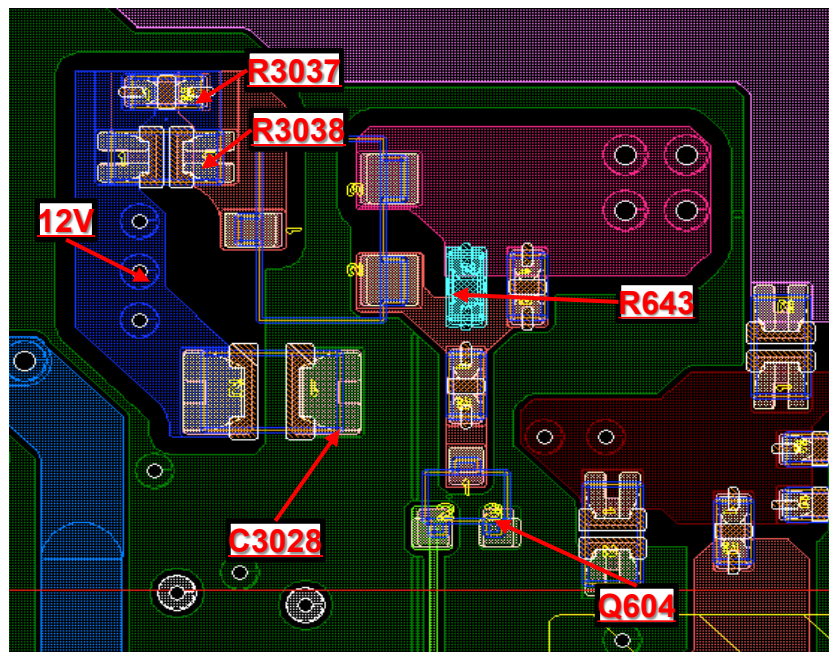
BM5STY Tuner portion(Bottom View)



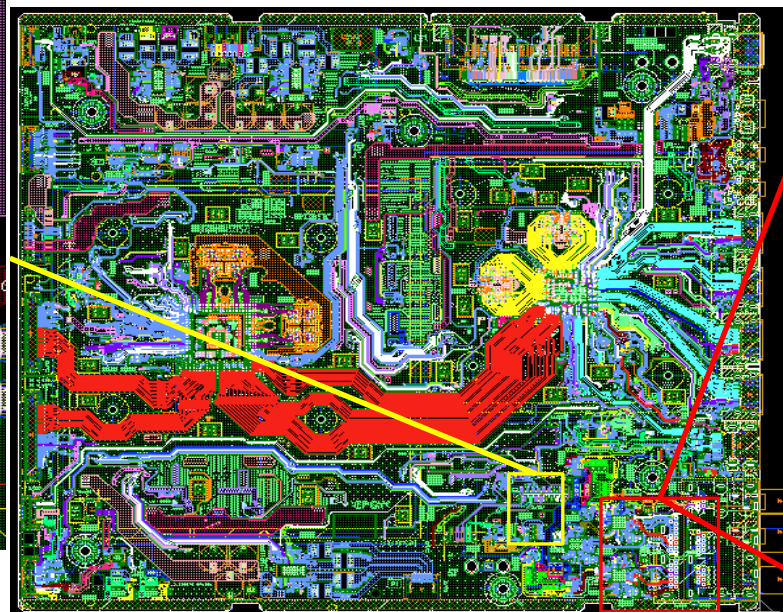
# TROUBLESHOOTING

## 4.4 No Picture at Tuner - Tuner Power Lines: 3.3V, 12.0V, 1.0V

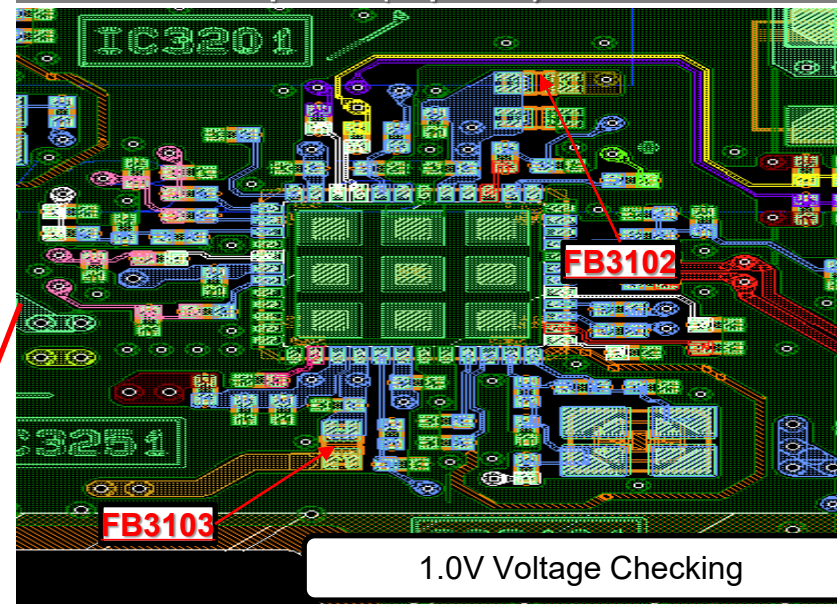
BM5STY Tuner portion(Bottom View)



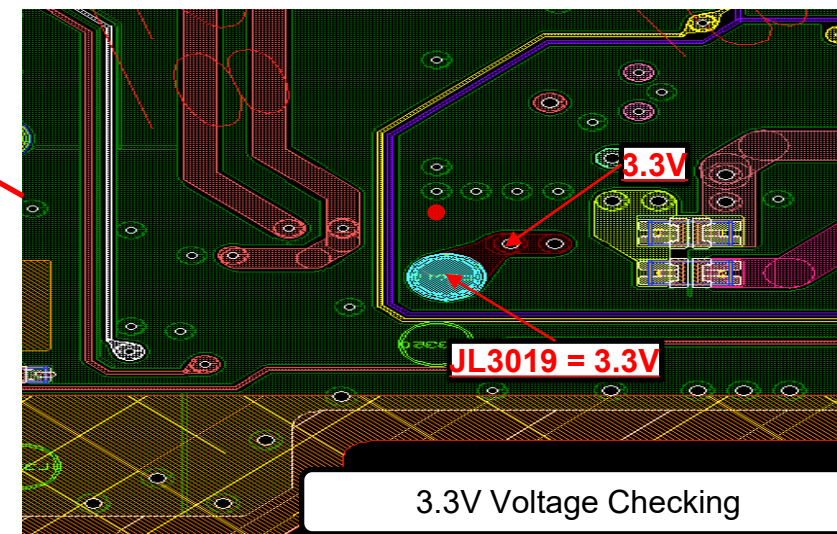
+12V\_LNB Voltage Checking



BM5STY Tuner portion(Top View)

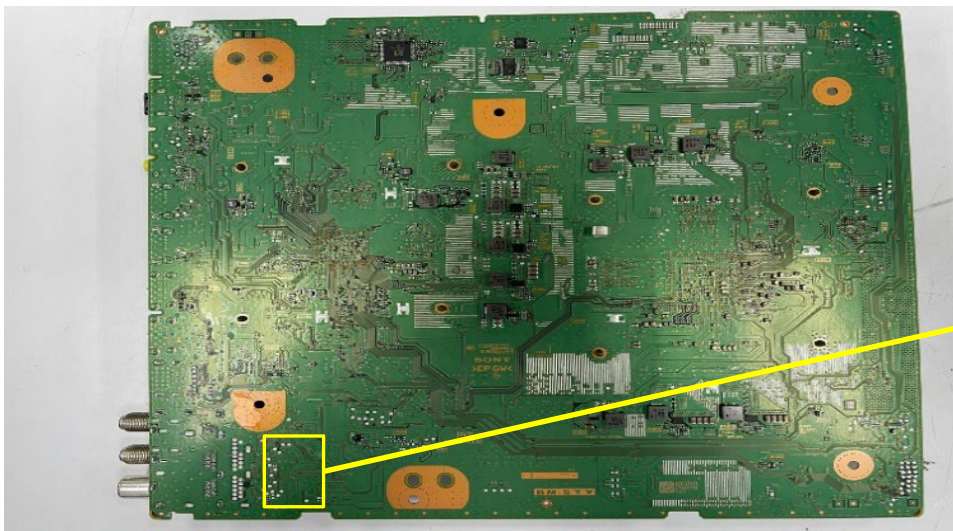


BM5STY Tuner portion(Bottom View)

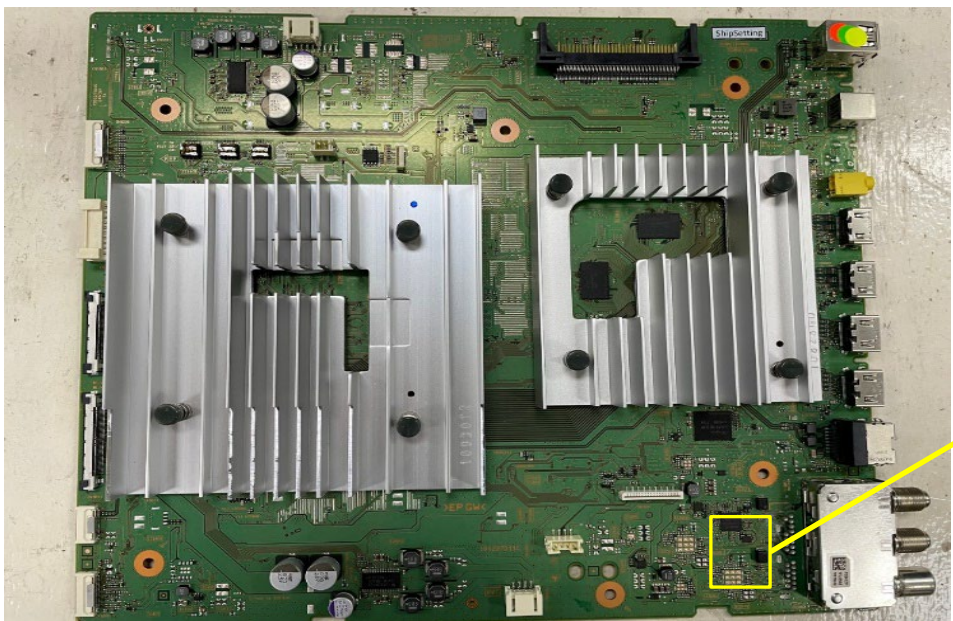
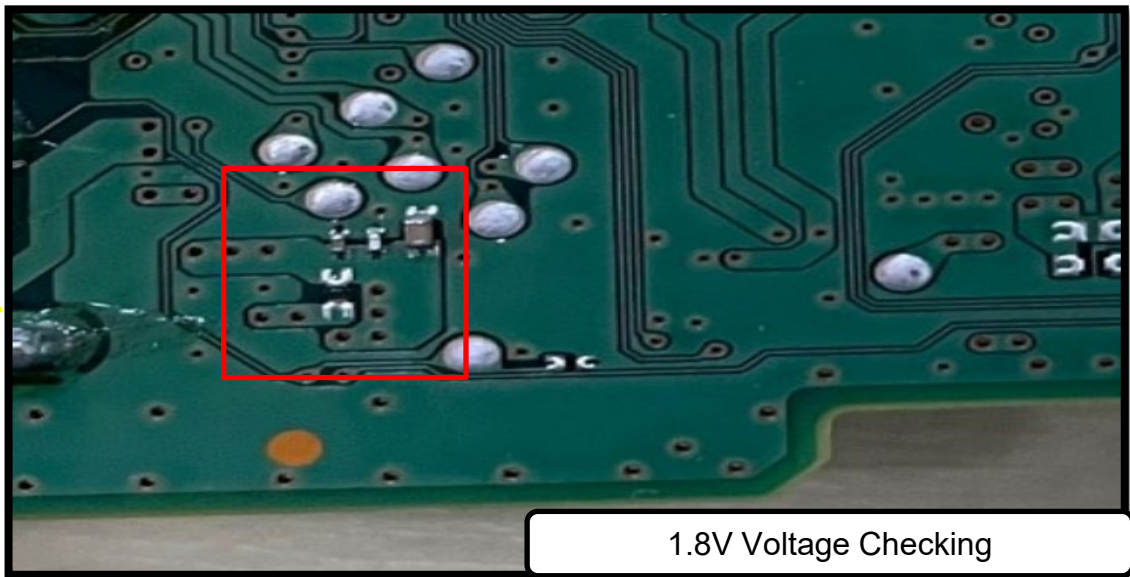


# TROUBLESHOOTING

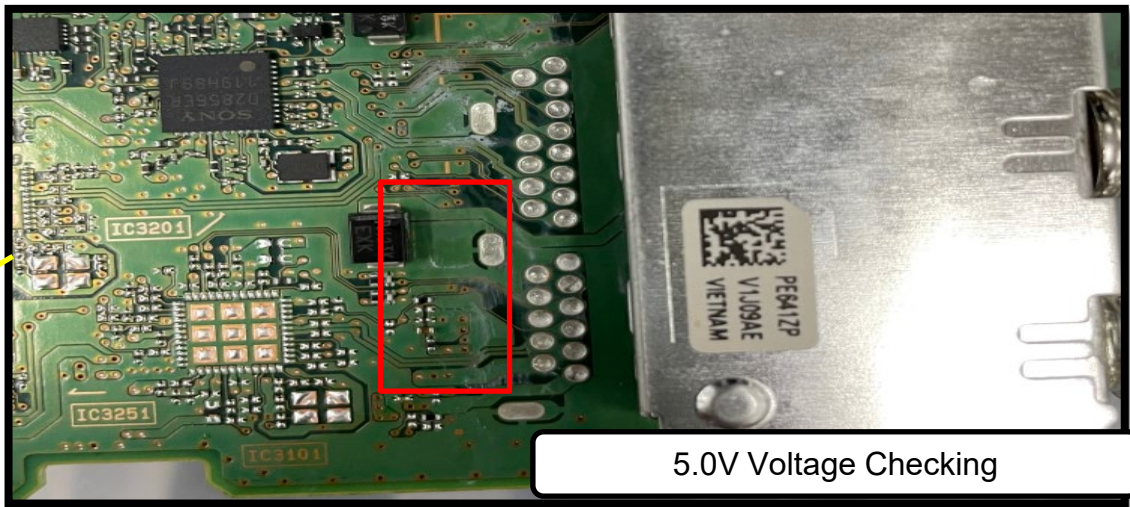
## 4.4 No Picture at Tuner



BM5STY Tuner portion(Bottom View)



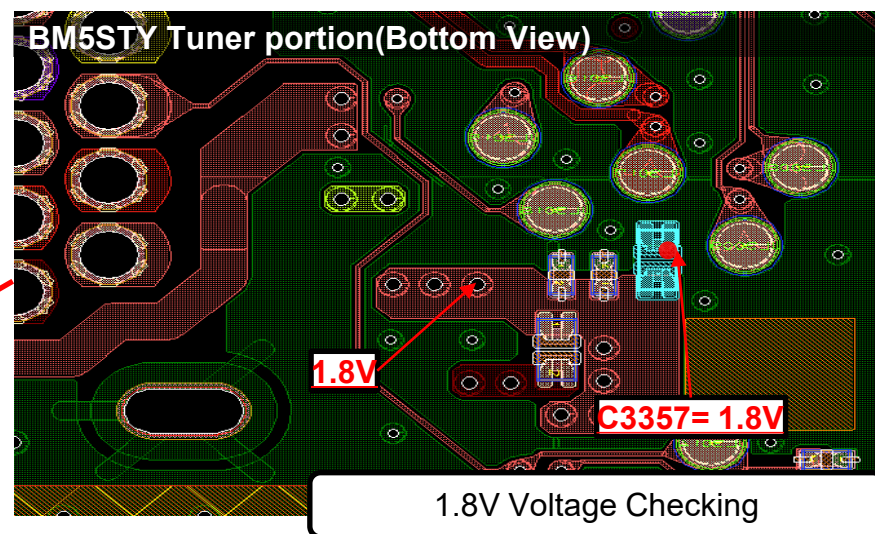
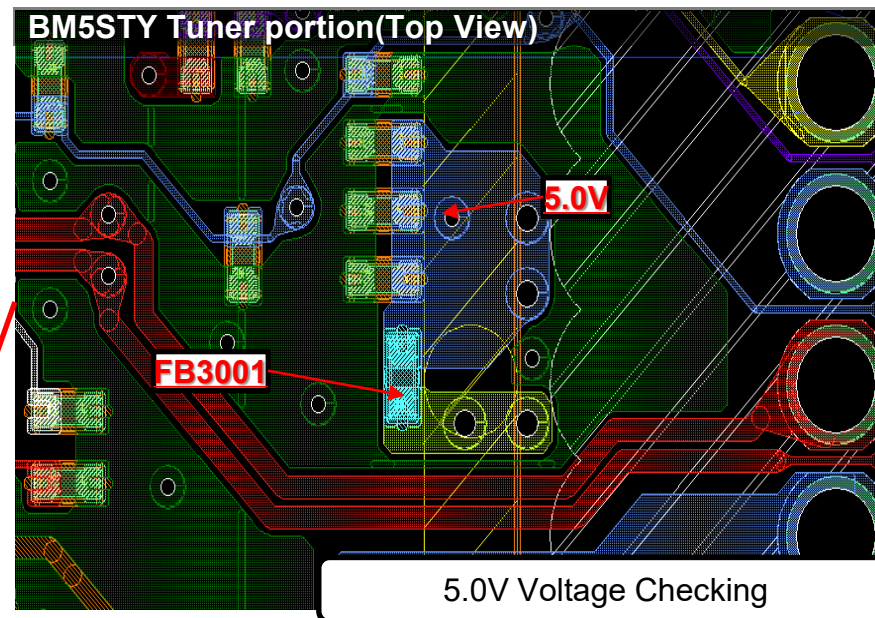
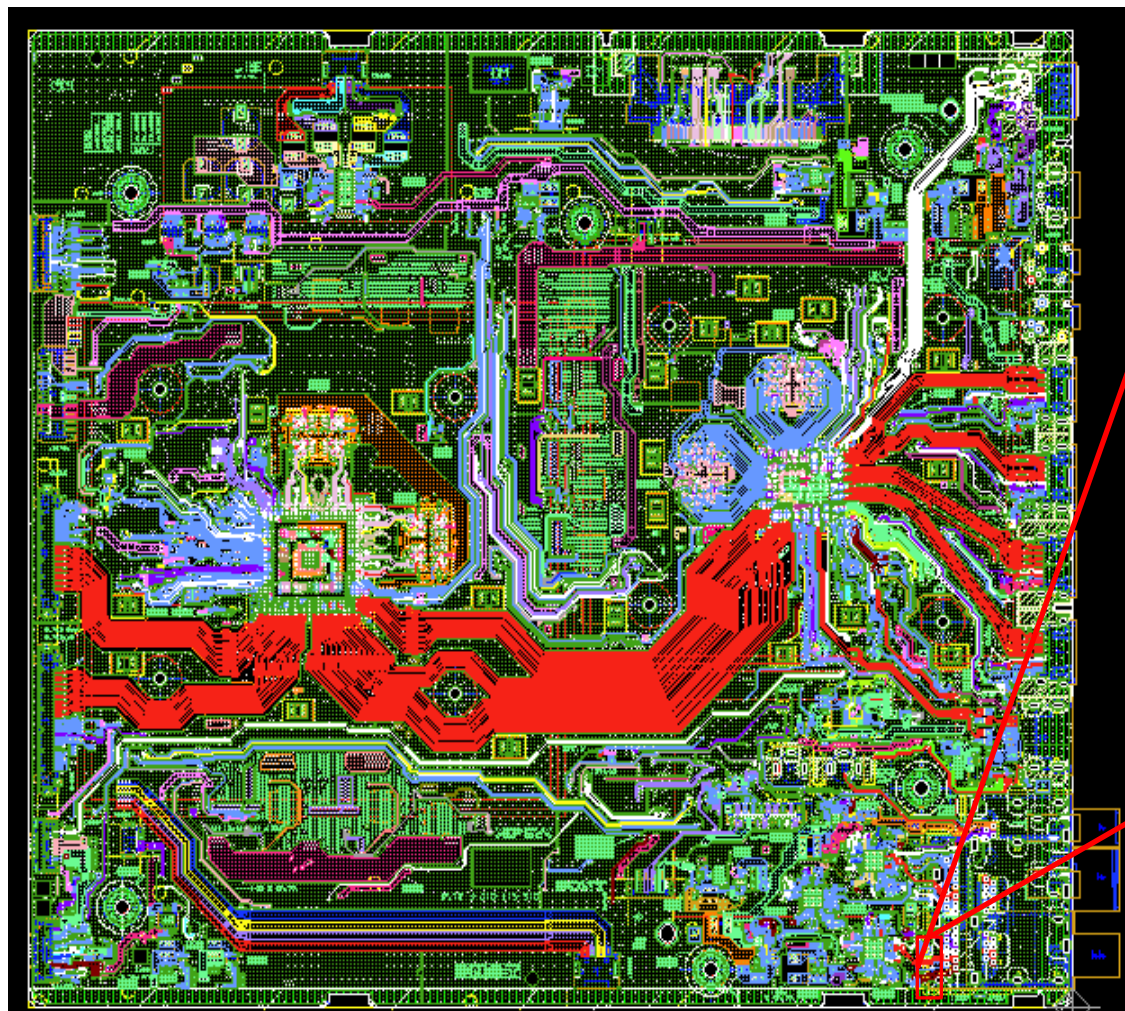
BM5STY Tuner portion(Top View)



# TROUBLESHOOTING

## 4.4 No Picture - Tuner

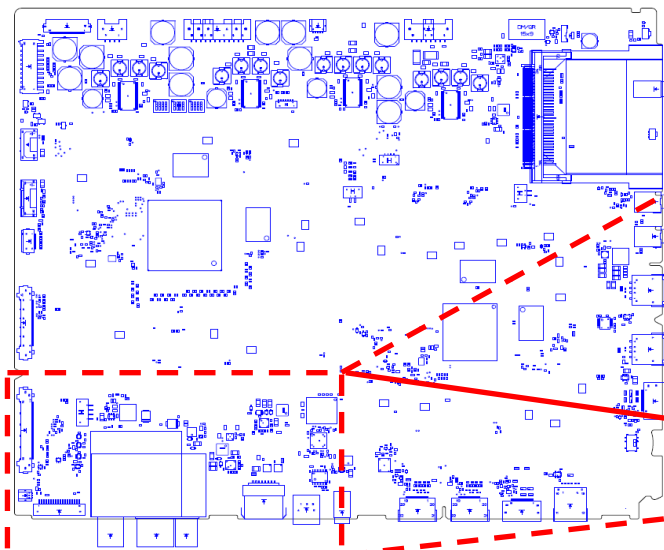
Tuner Power Lines: 1.8V, 5.0V  
BM5STY (Top View)



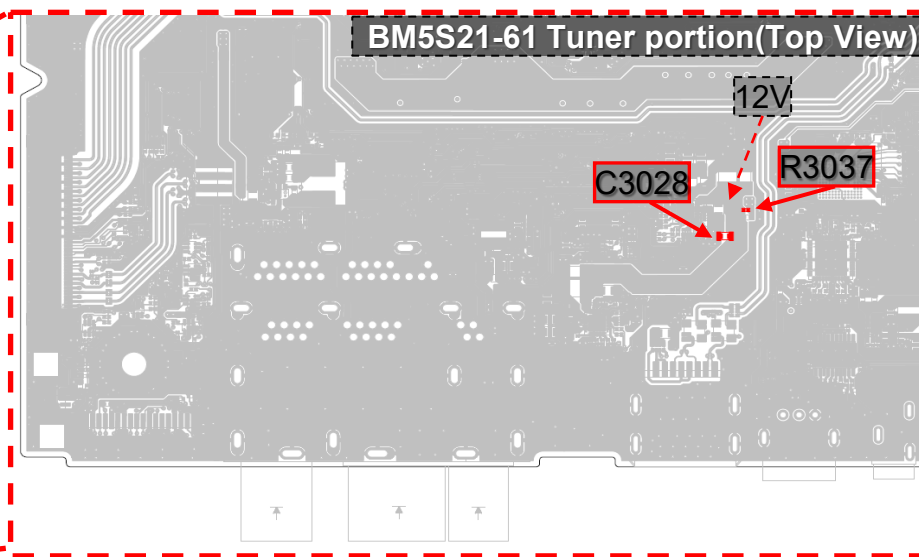
# TROUBLESHOOTING

## 4.4 No Picture - Tuner – XR-83A80\*

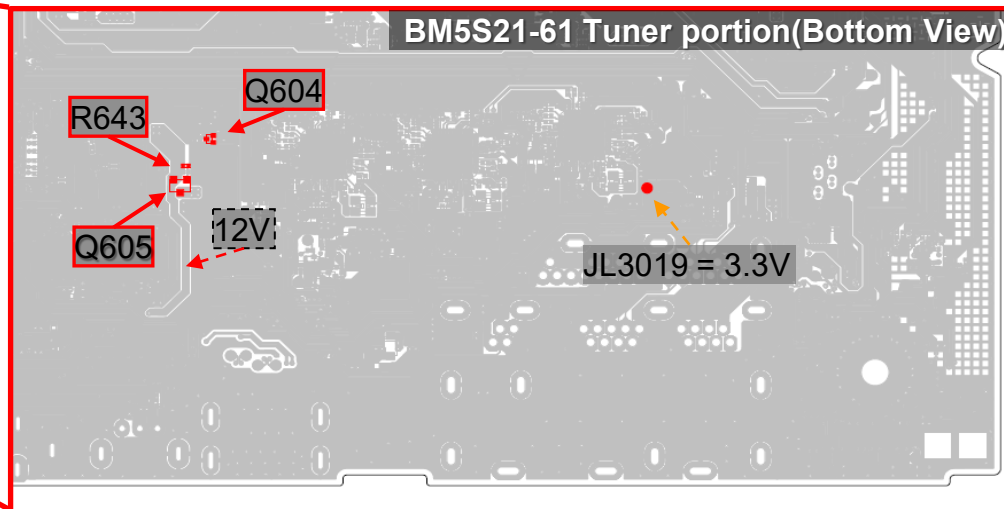
BM5S21-61 (Top View)



BM5S21-61 Tuner portion (Top View)

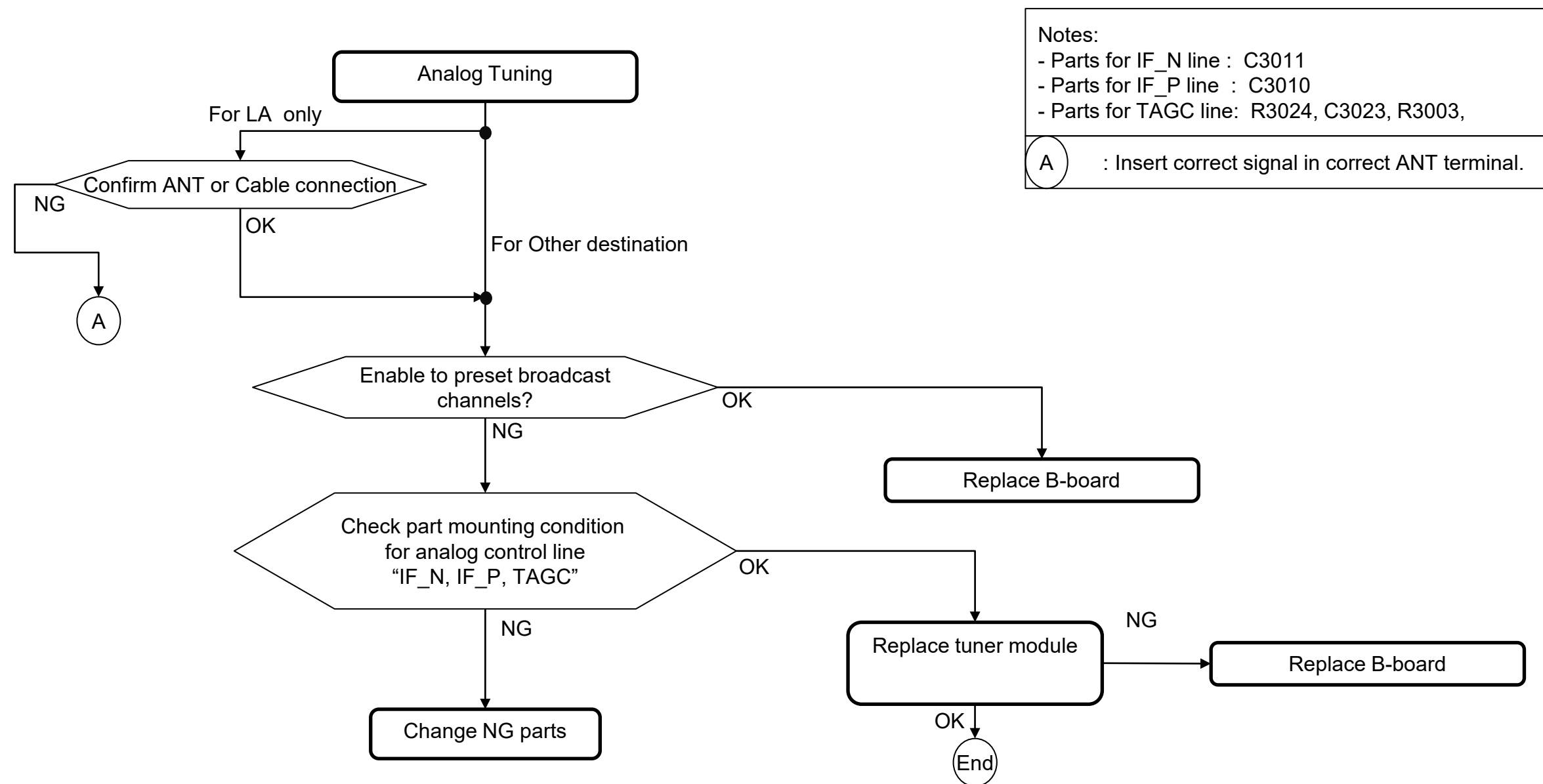


BM5S21-61 Tuner portion (Bottom View)



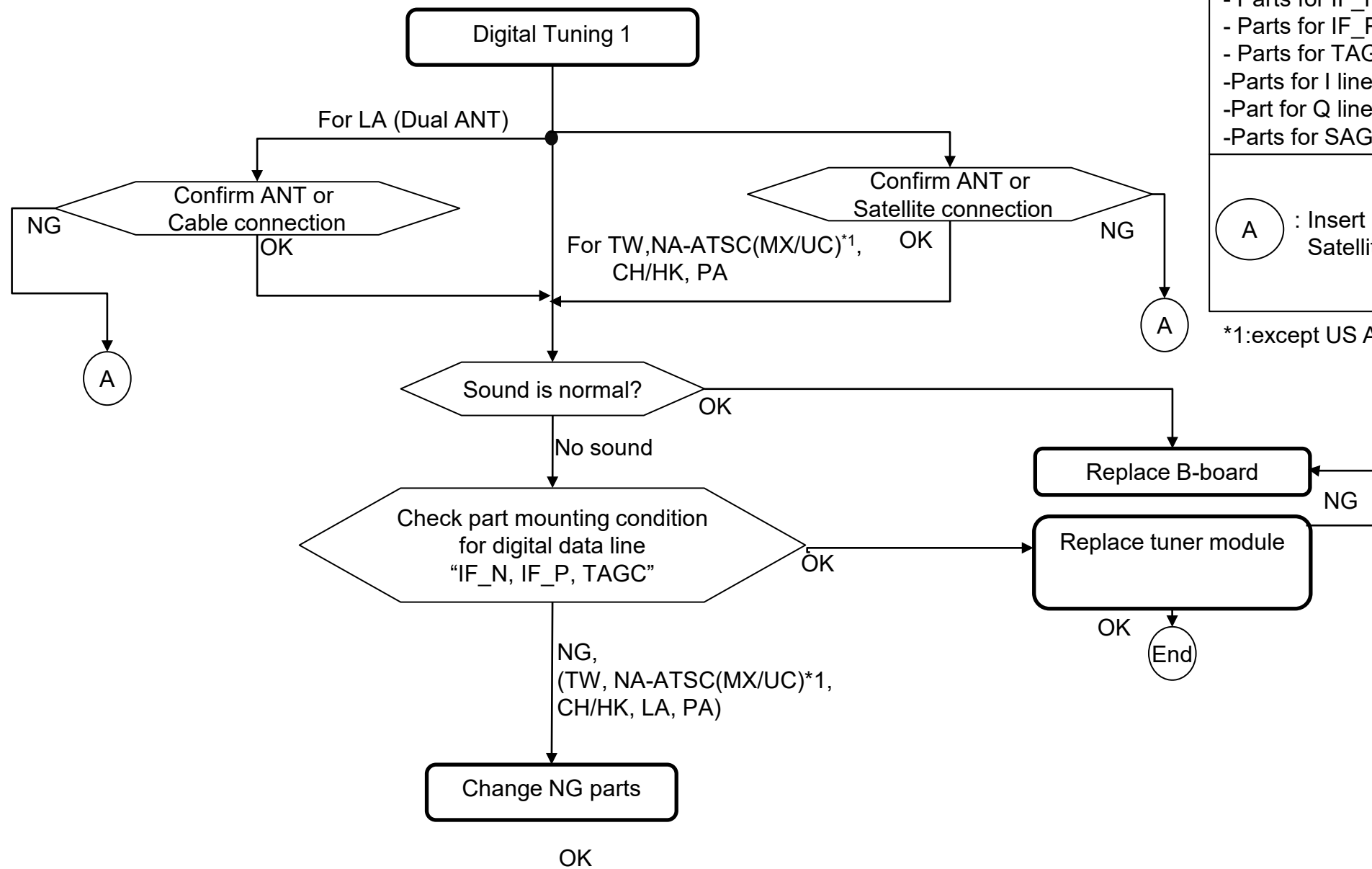
## TROUBLESHOOTING

### 4.4 No Picture at Tuner - FOR ANALOG TUNING



## TROUBLESHOOTING

### 4.4 No Picture at Tuner - FOR DIGITAL TUNING 1 For TW, NA-ATSC(MX/UC)\*1, CH/HK, LA, PA



Notes:

- Parts for IF\_N line : C3011
- Parts for IF\_P line : C3010
- Parts for TAGC line: R3024, C3023, R3003,
- Parts for I line:C3009
- Part for Q line:C3012
- Parts for SAGC line:C3024, C3025

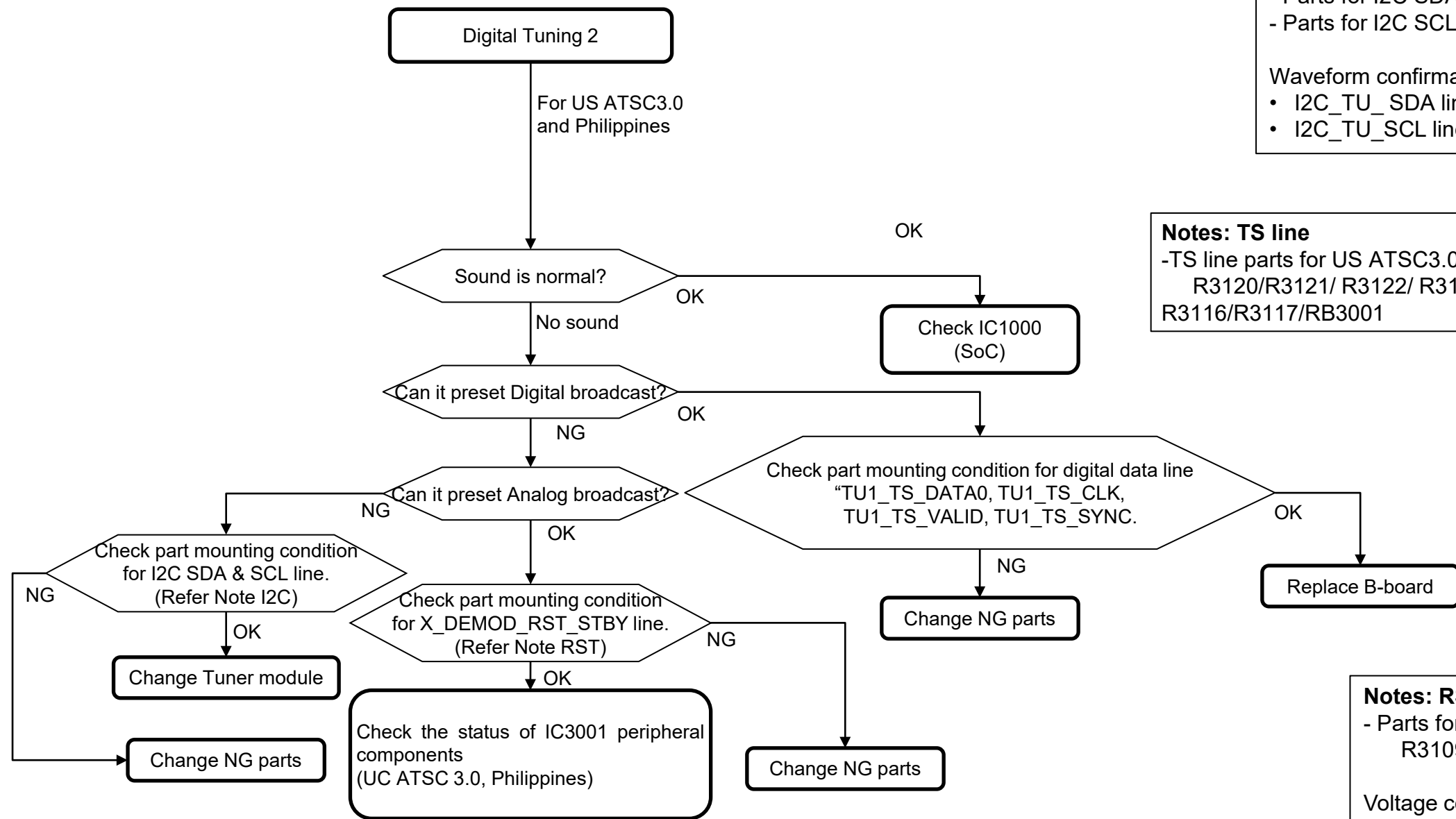
(A) : Insert correct signal in correct ANT/CABLE/ Satellite terminal.

\*1:except US ATSC3.0, Please refer Digital Tuning 2



# TROUBLESHOOTING

## 4.4 No Picture at Tuner - FOR DIGITAL TUNING 2 For US ATSC3.0 and Philippines



**Notes: I2C**  
 - Parts for I2C SDA line: R3036, C3005  
 - Parts for I2C SCL line : R3035, C3006

Waveform confirmation point  
 • I2C\_TU\_SDA line: JL3013  
 • I2C\_TU\_SCL line : JL3012

**Notes: TS line**  
 -TS line parts for US ATSC3.0/Philippines  
 R3120/R3121/ R3122/ R3123/ R3114/ C3126/  
 R3116/R3117/RB3001

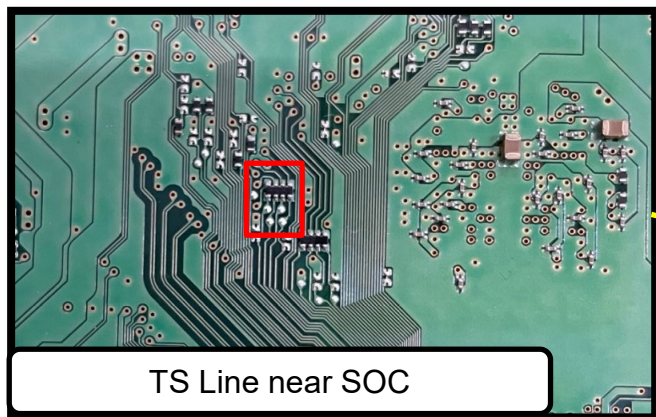
**Notes: RST**  
 - Parts for X\_DEMOD\_RST\_STBY line:  
 R3109, C3117

Voltage confirmation point  
 C3117 = 3.3V

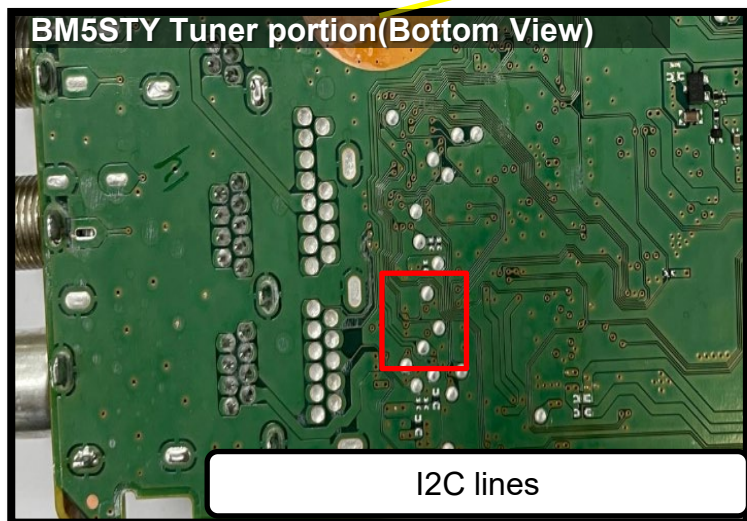
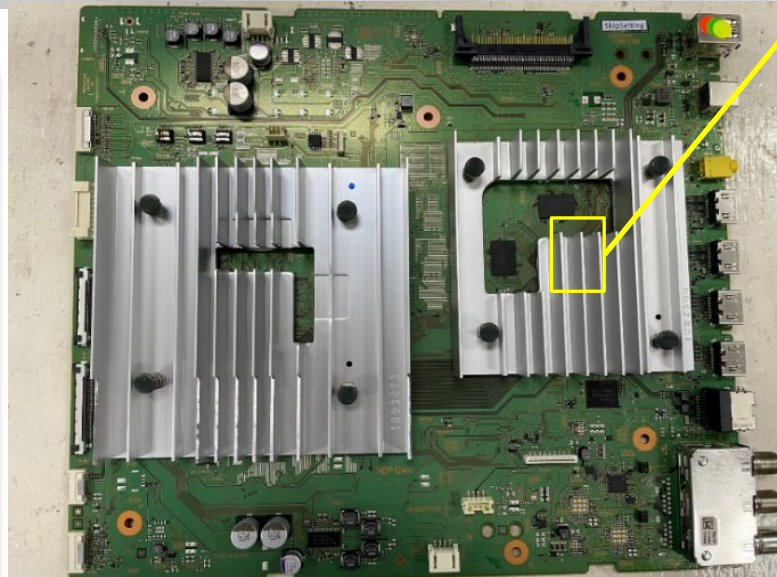
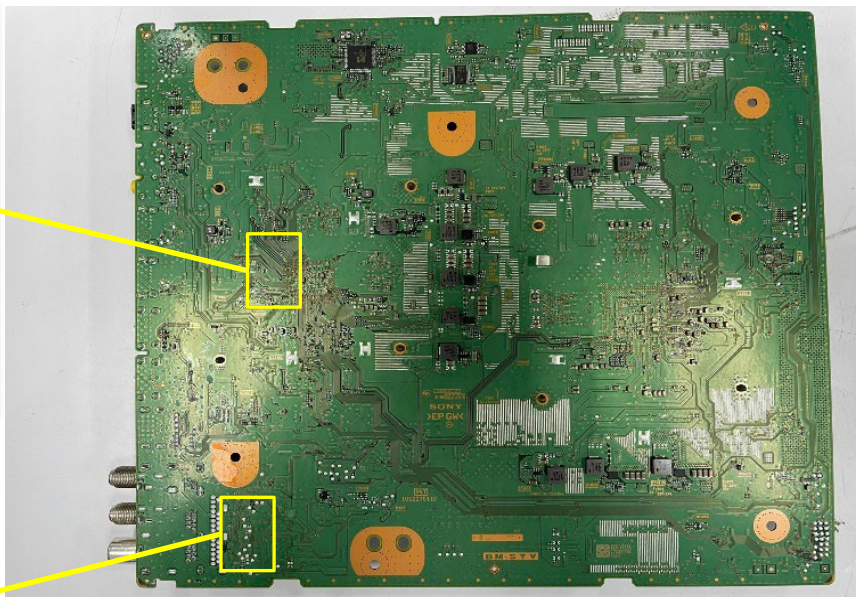
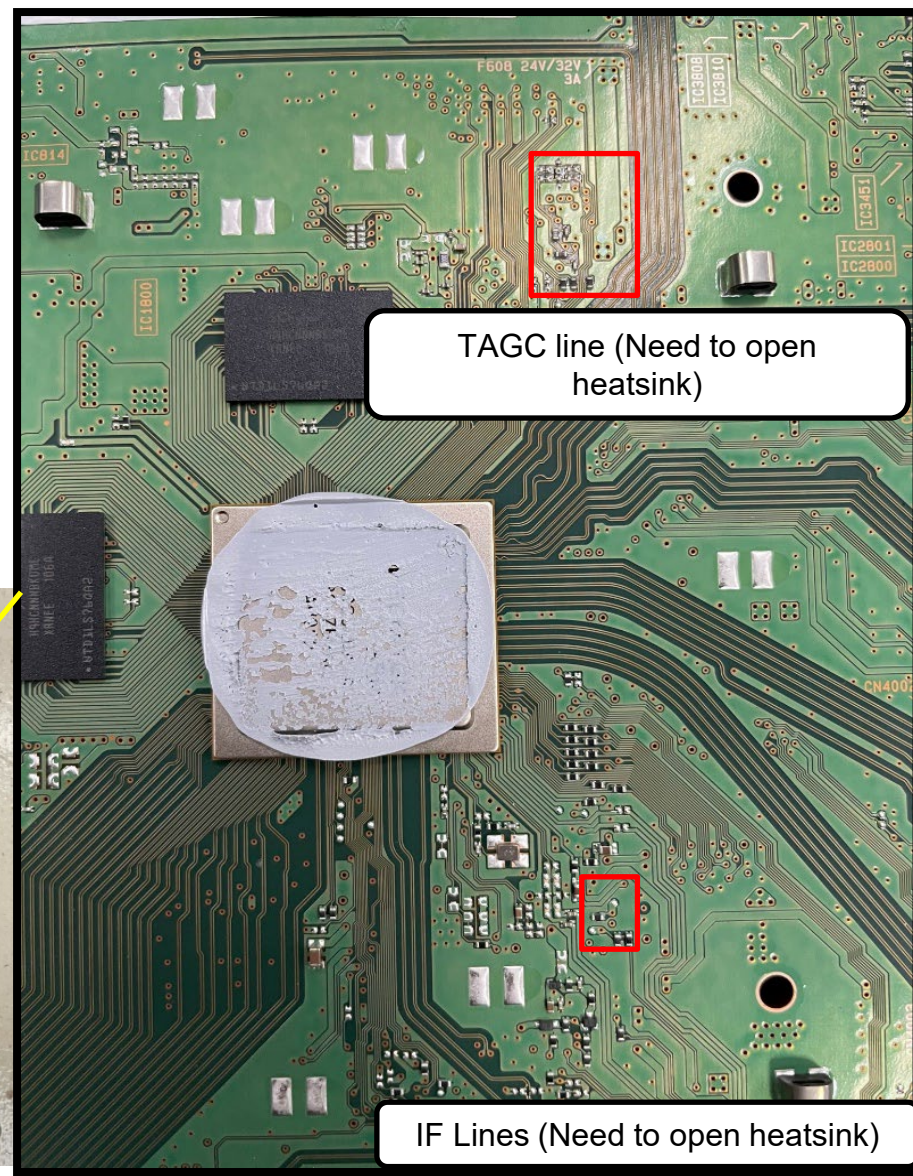
# TROUBLESHOOTING

## 4.4 No Picture at Tuner

BM5STY Tuner portion(Bottom View)



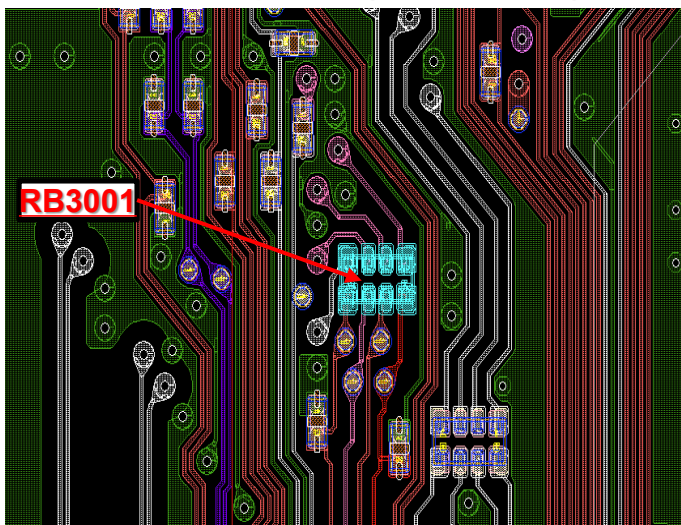
BM5STY Tuner portion(Top View)



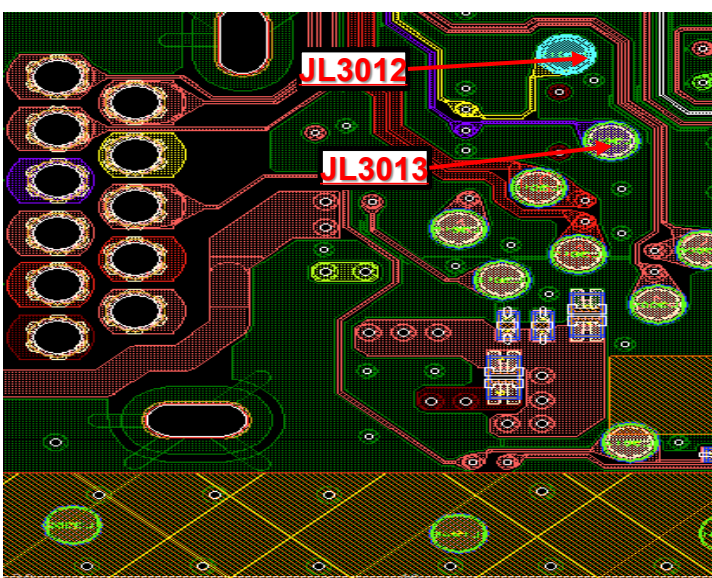
# TROUBLESHOOTING

## 4.4 No Picture at Tuner- IF\_N, IF\_P, TAGC, TS Lines(Near SOC)

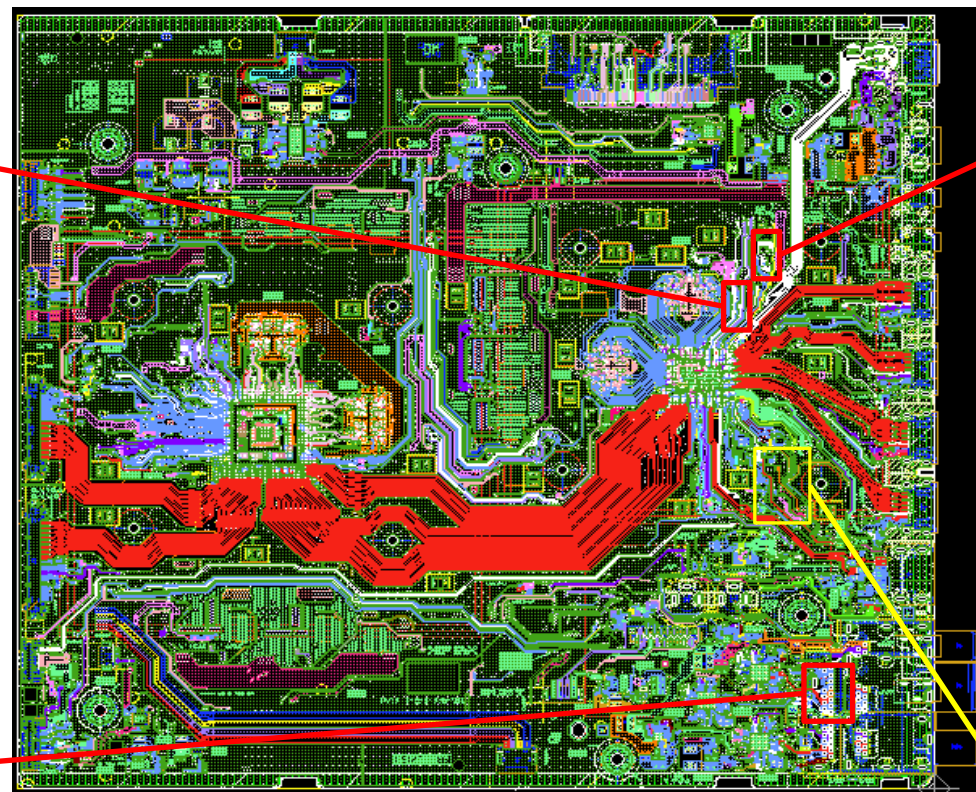
BM5STY Tuner portion(Bottom View)



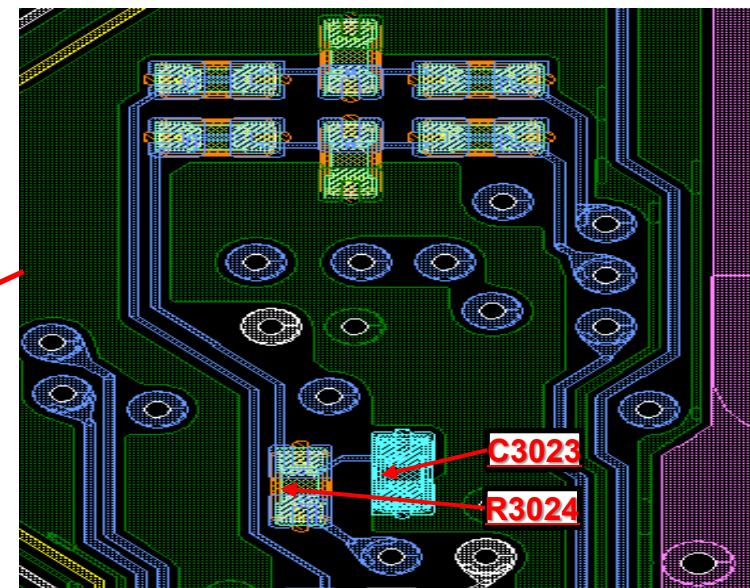
BM5STY Tuner portion(Bottom View)



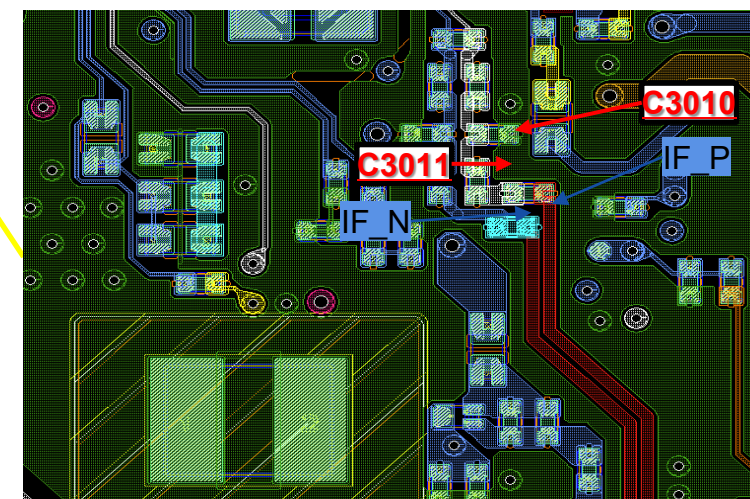
BM5STY(Top View)



BM5STY Tuner portion(Top View)

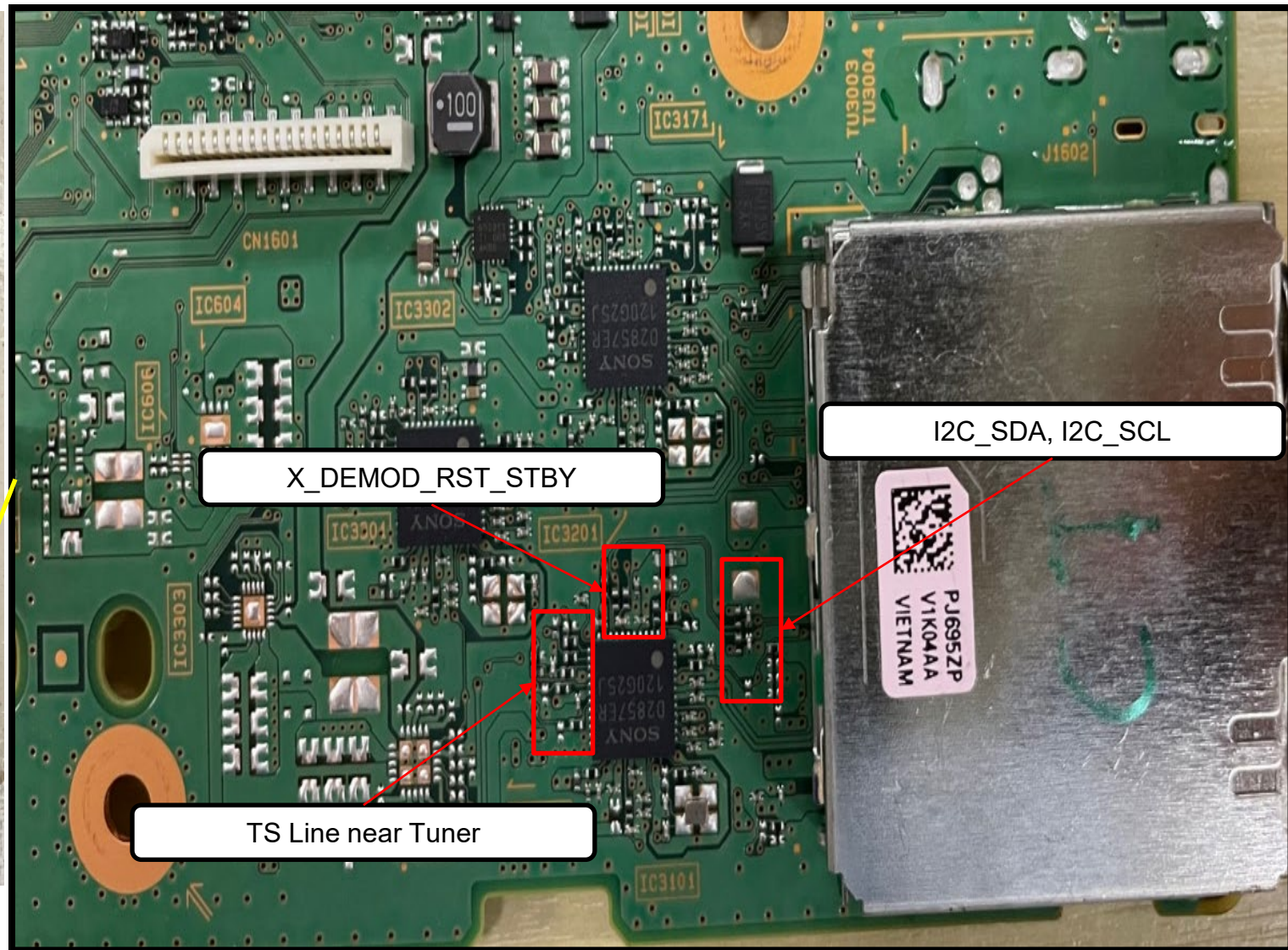
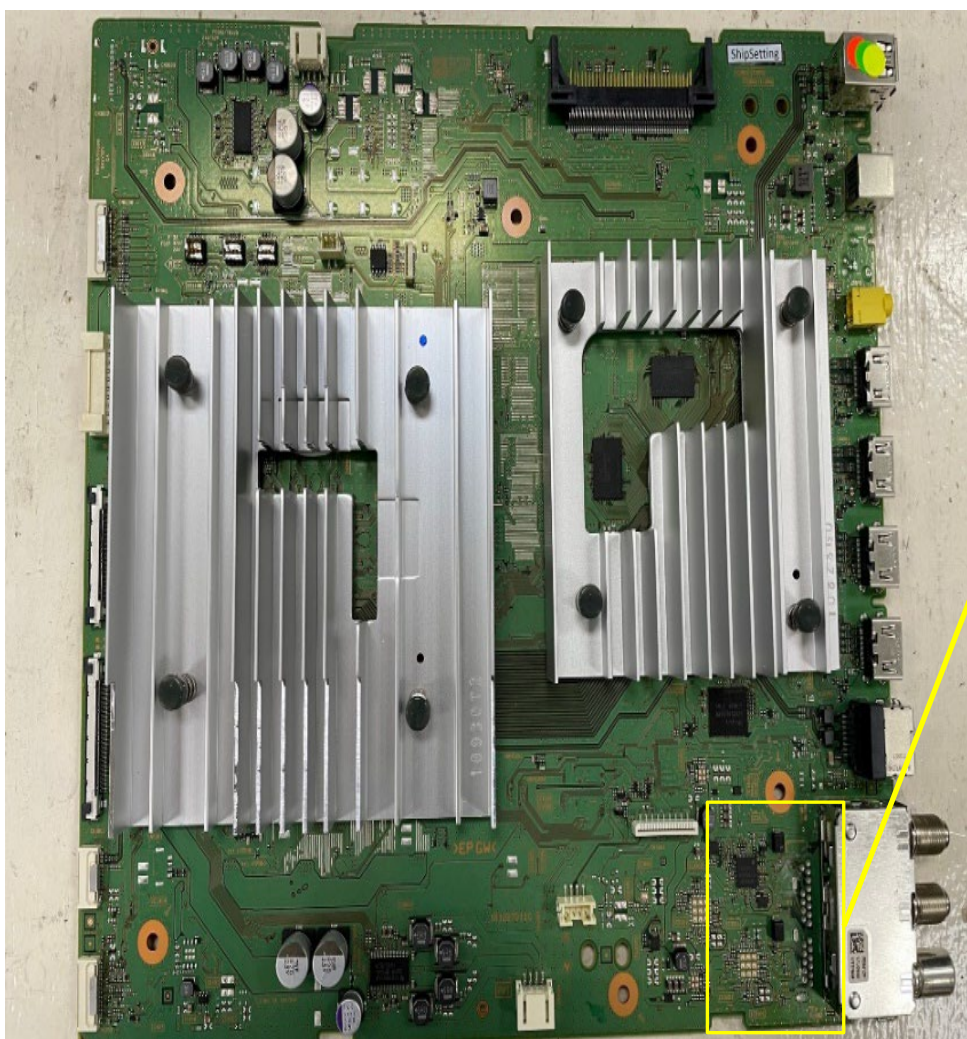


BM5STY Tuner portion(Top View)



# TROUBLESHOOTING

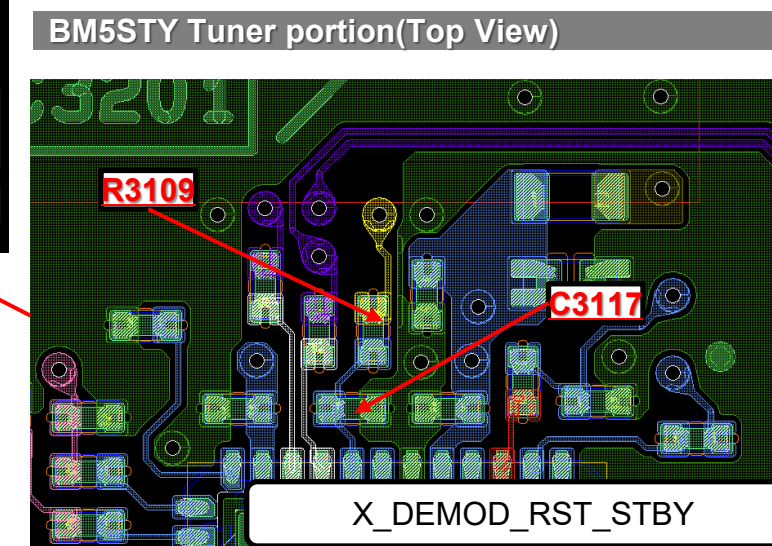
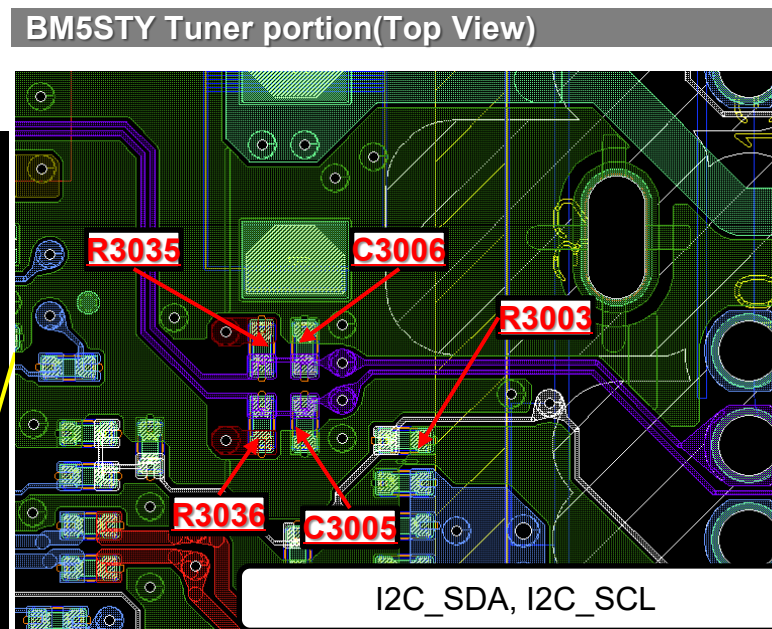
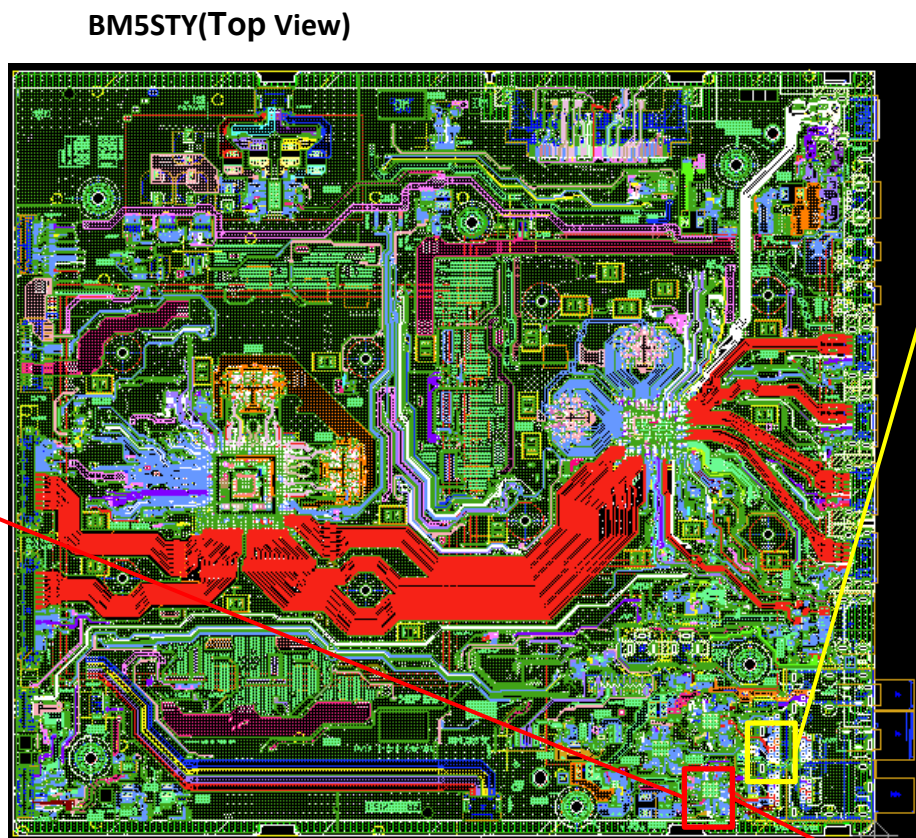
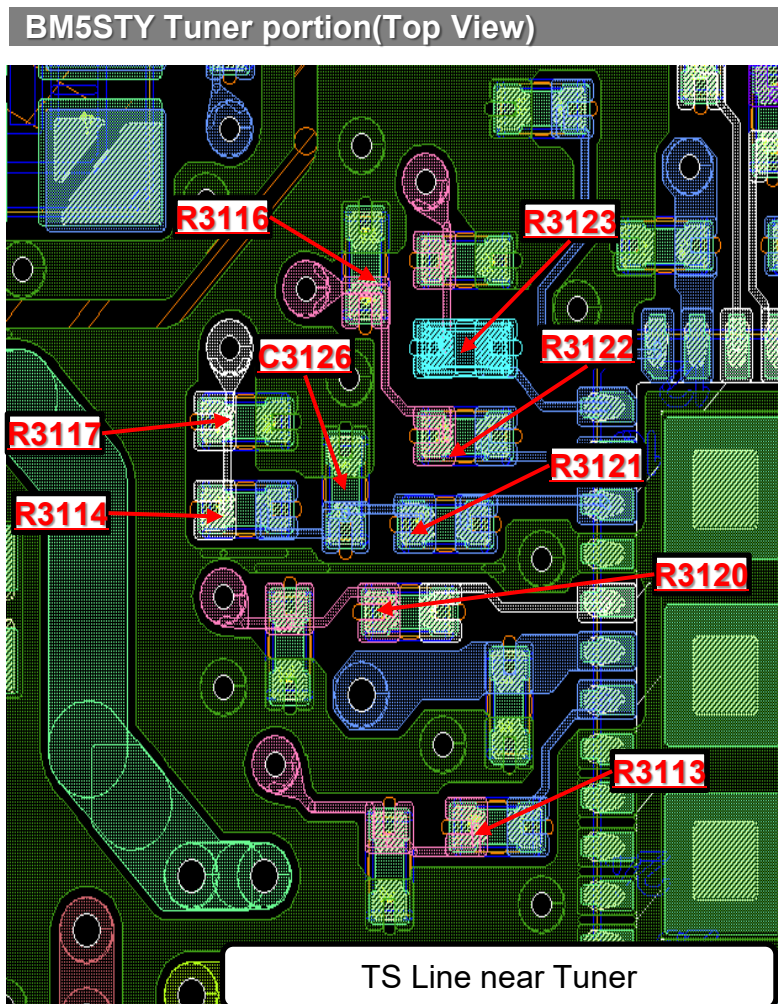
## 4.4 No Picture at Tuner



Please refer to next slide for detail ref.no and part location.

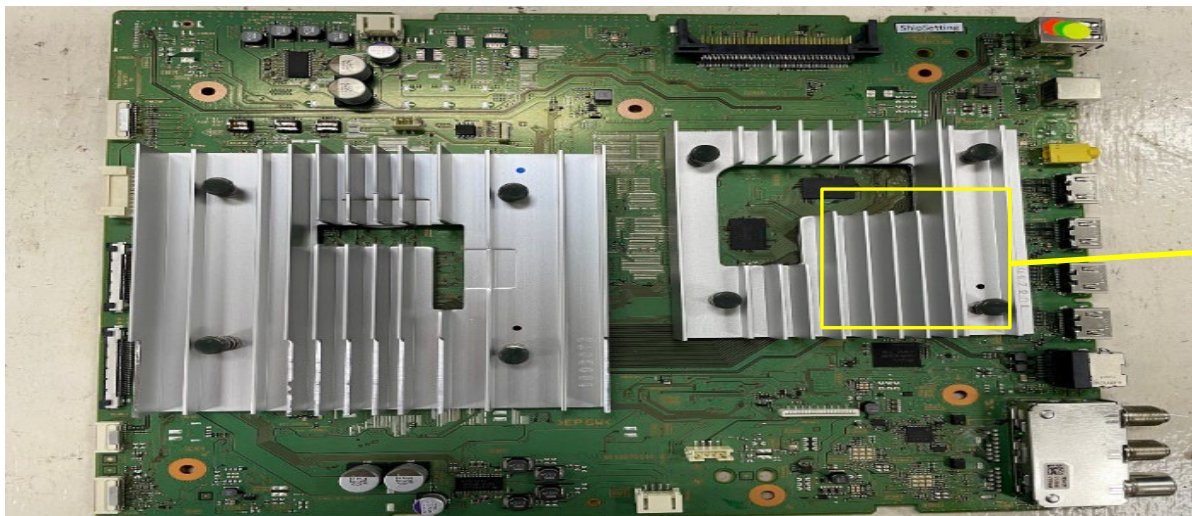
# TROUBLESHOOTING

## 4.4 No Picture at Tuner - I2C\_SDA, I2C\_SCL, TS Lines(Near tuner), X\_DEMOD\_RST\_STBY

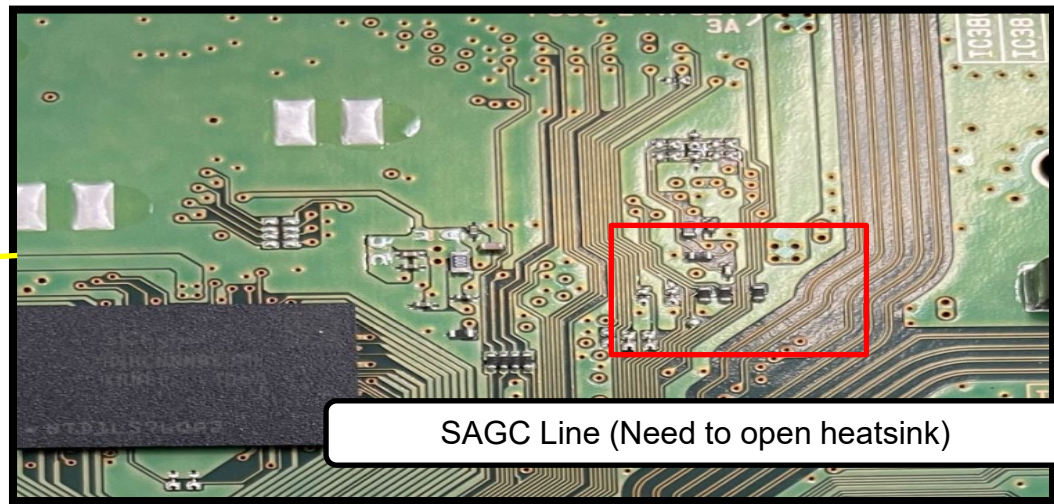


# TROUBLESHOOTING

## 4.4 No Picture at Tuner

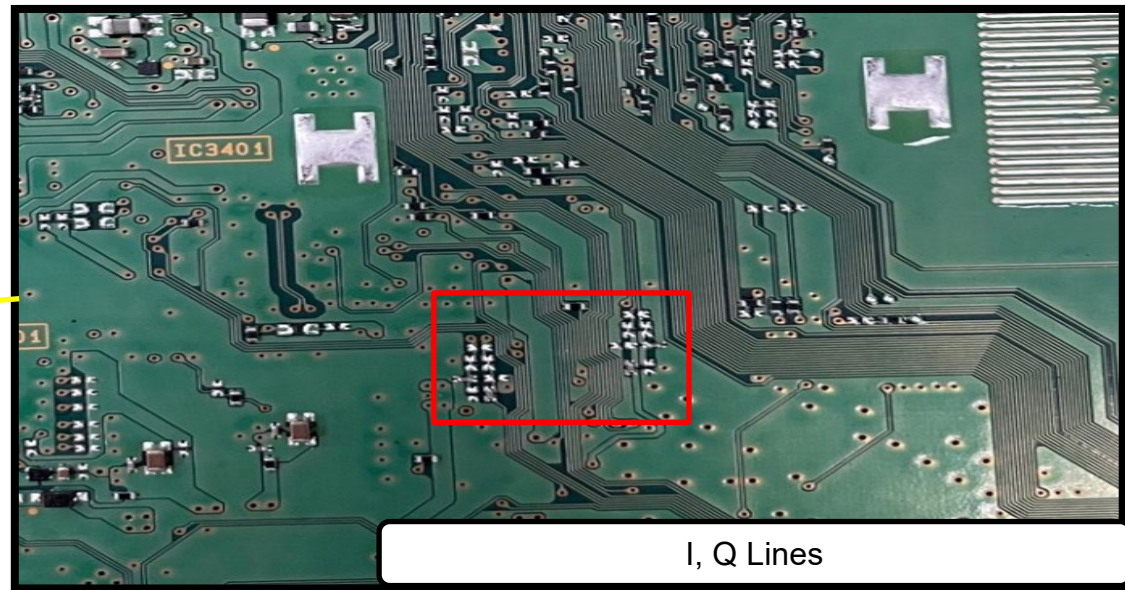


BM5STY Tuner portion(Top View)

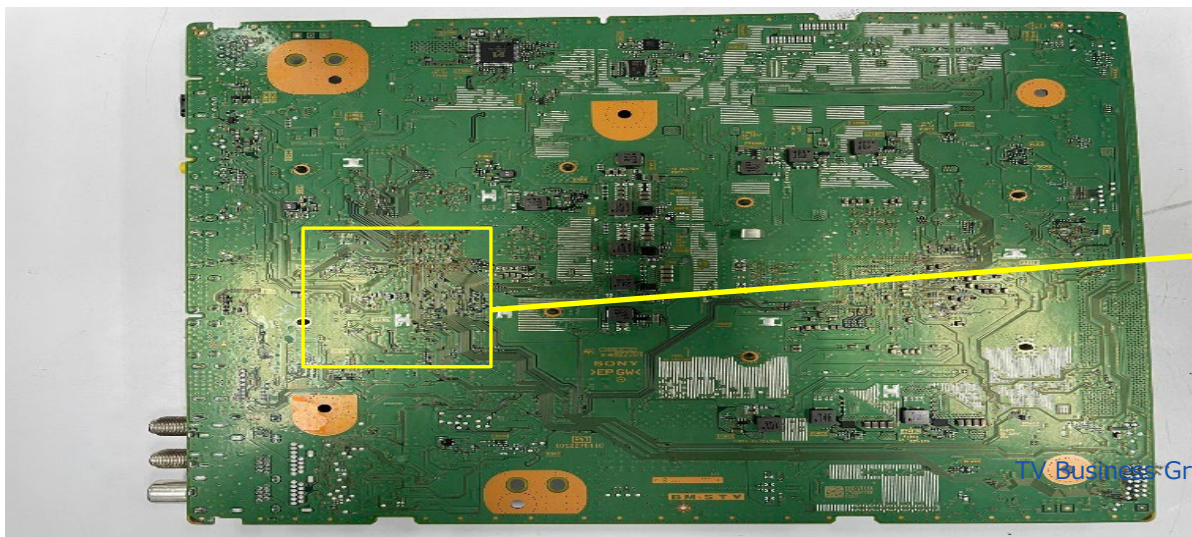


SAGC Line (Need to open heatsink)

BM5STY Tuner portion(Bottom View)



I, Q Lines

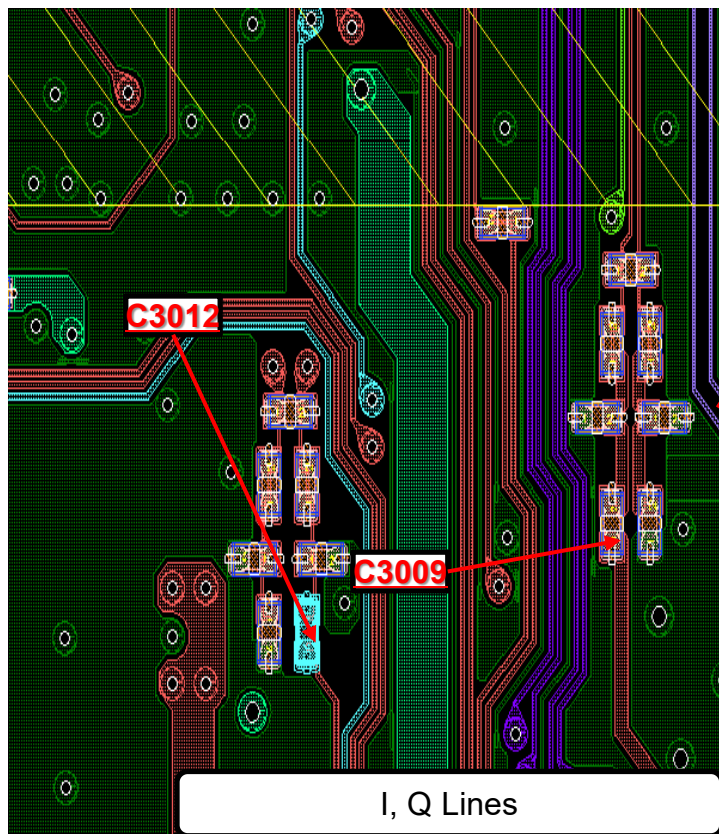


TV Business Group

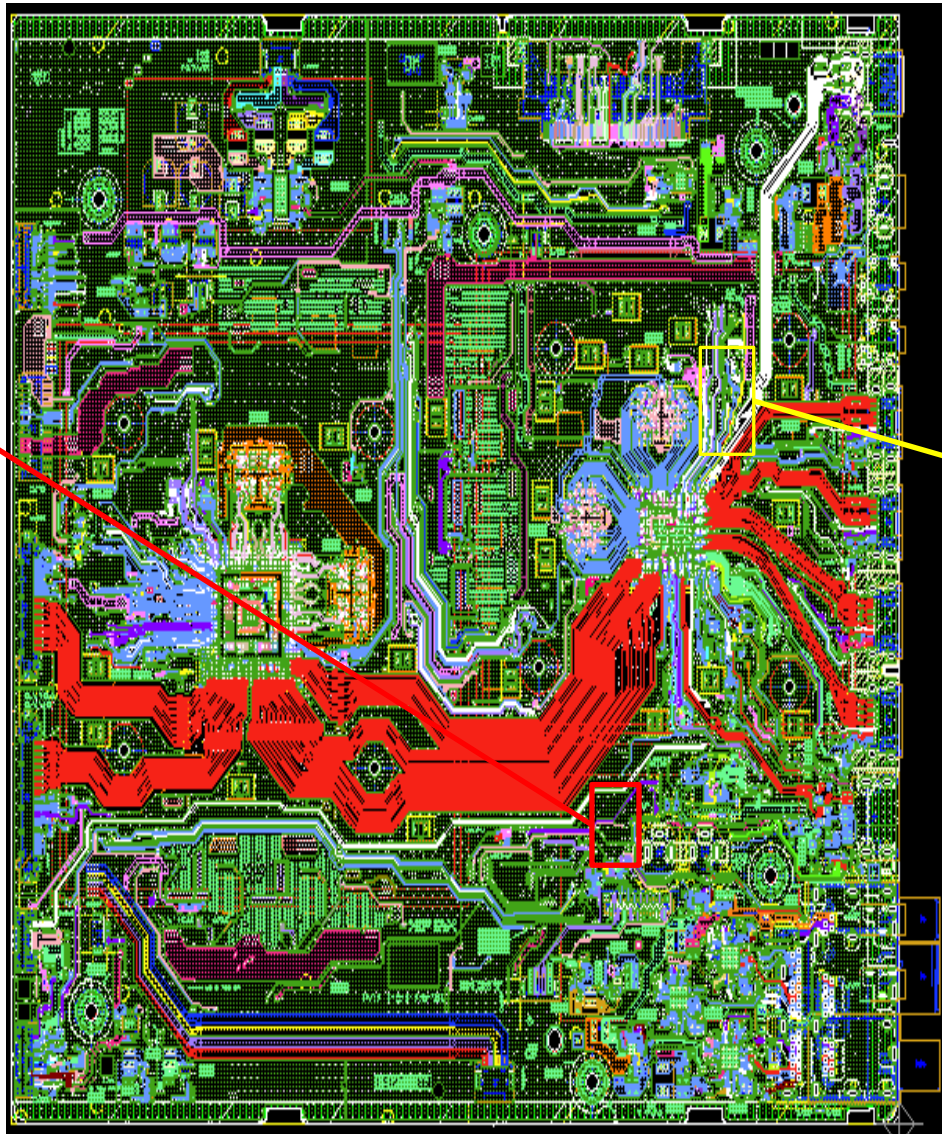
# TROUBLESHOOTING

## 4.4 No Picture at Tuner - I,Q, SAGC(Near SOC)

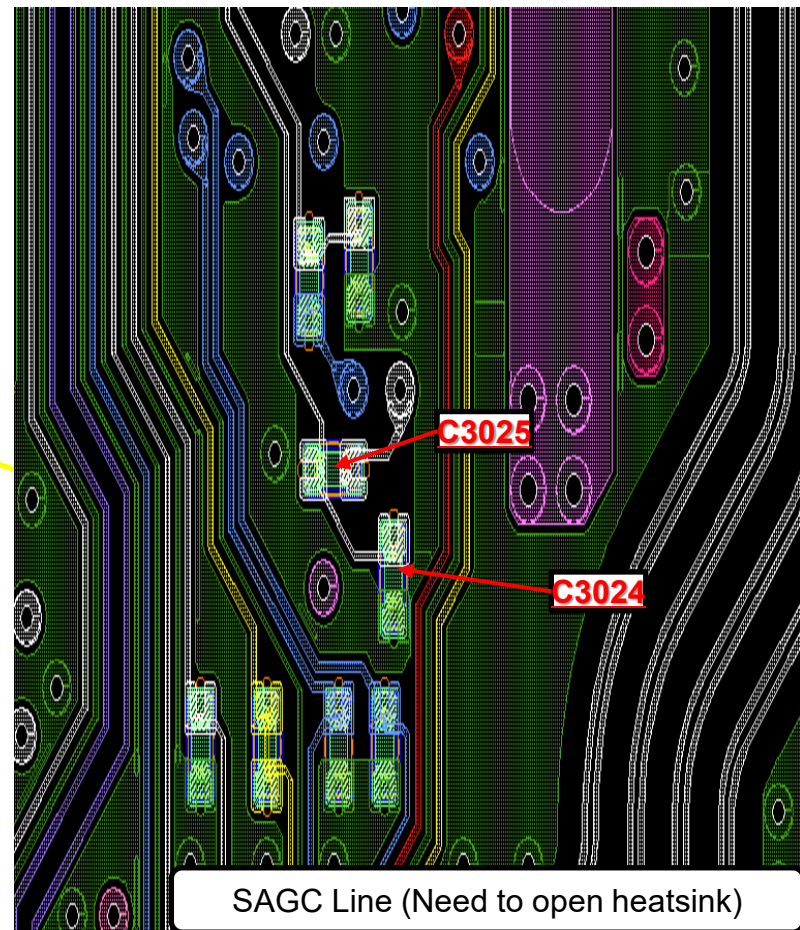
BM5STY Tuner portion(Bottom View)



BM5STY(Top View)



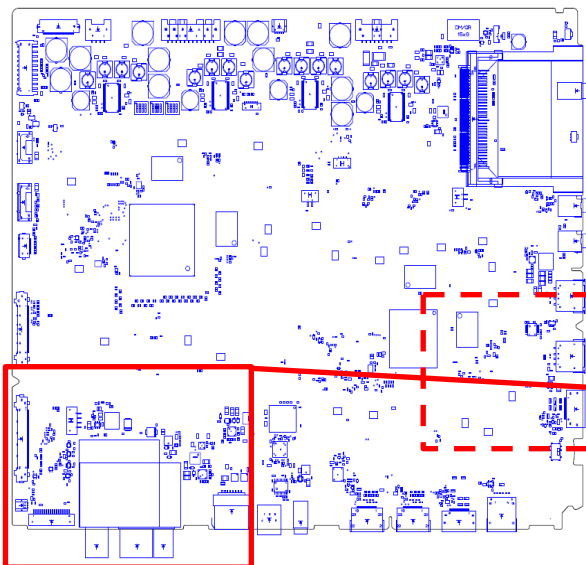
BM5STY Tuner portion(Top View)



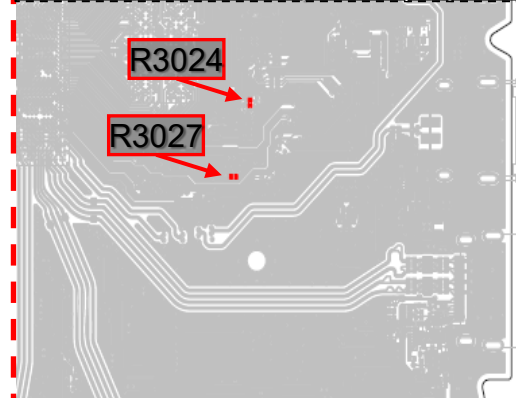
# TROUBLESHOOTING

## 4.4 No Picture at Tuner – XR-83A80\*

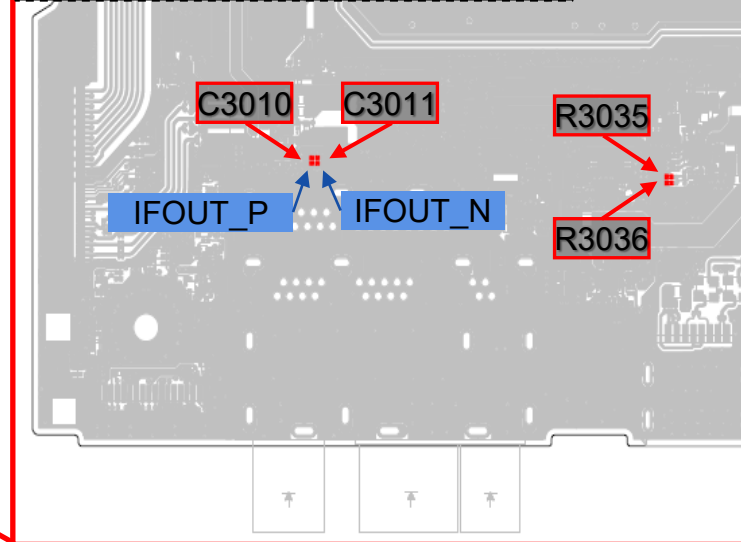
BM5S21-61 (Top View)



BM5S21-61 Tuner portion (Top View)



BM5S21-61 Tuner portion (Top View)

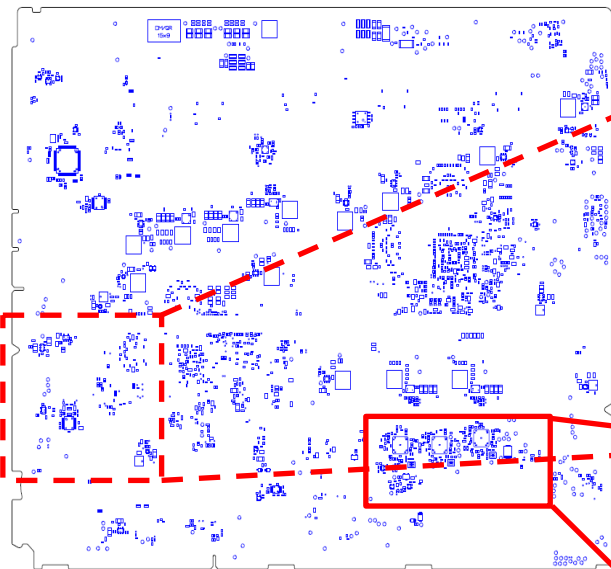




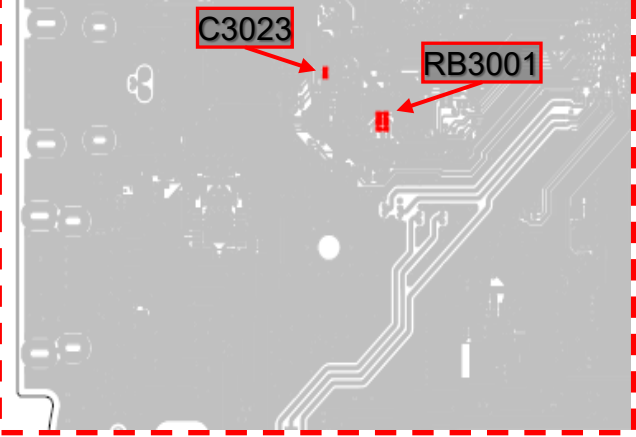
# TROUBLESHOOTING

## 4.4 No Picture at Tuner – XR-83A80\*

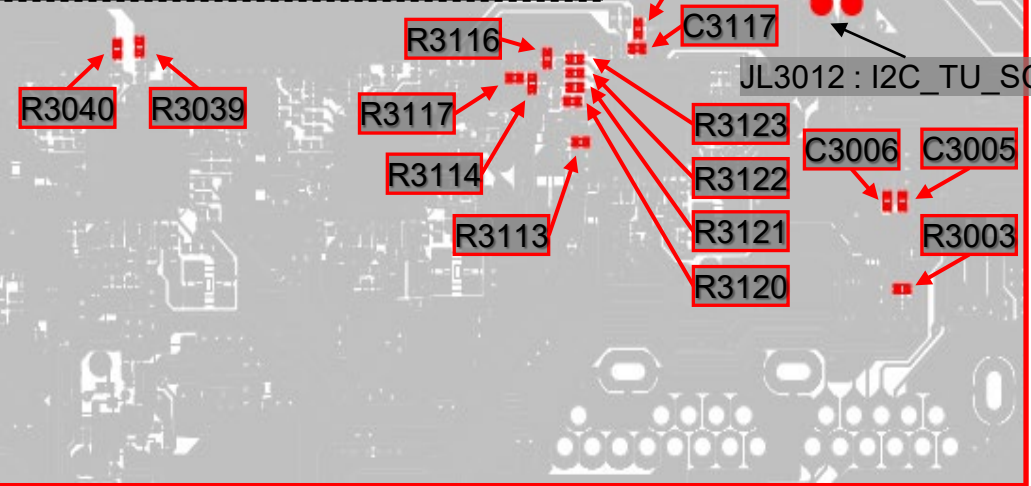
BM5S21-61 (Bottom View)



BM5S21-61 Tuner portion(Bottom View)

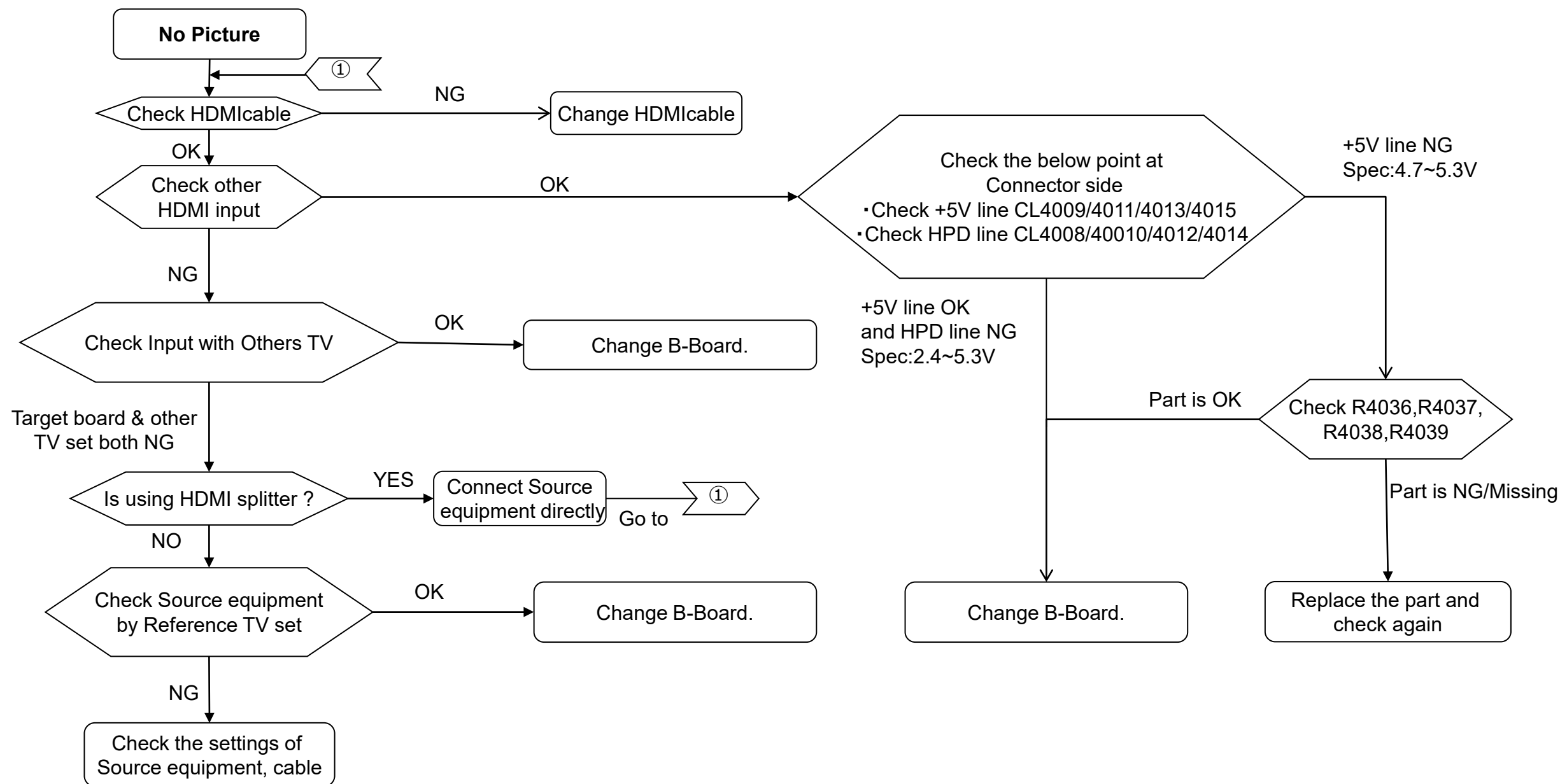


BM5S21-61 Tuner portion(Bottom View)



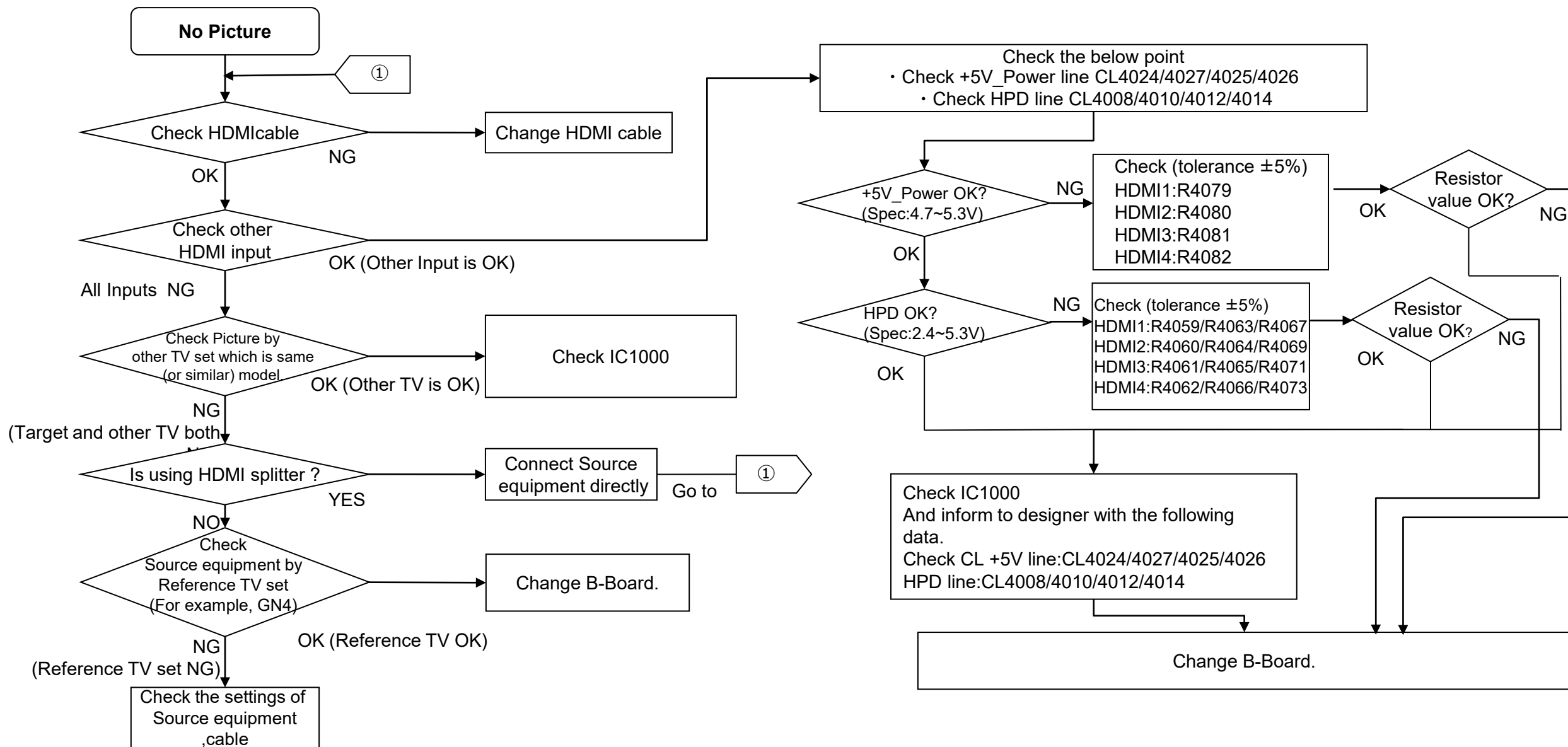
## TROUBLESHOOTING

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



# TROUBLESHOOTING

## 4.5 No Picture: HDMI 1/2/3/4 – XR-83A80\*



## TROUBLESHOOTING

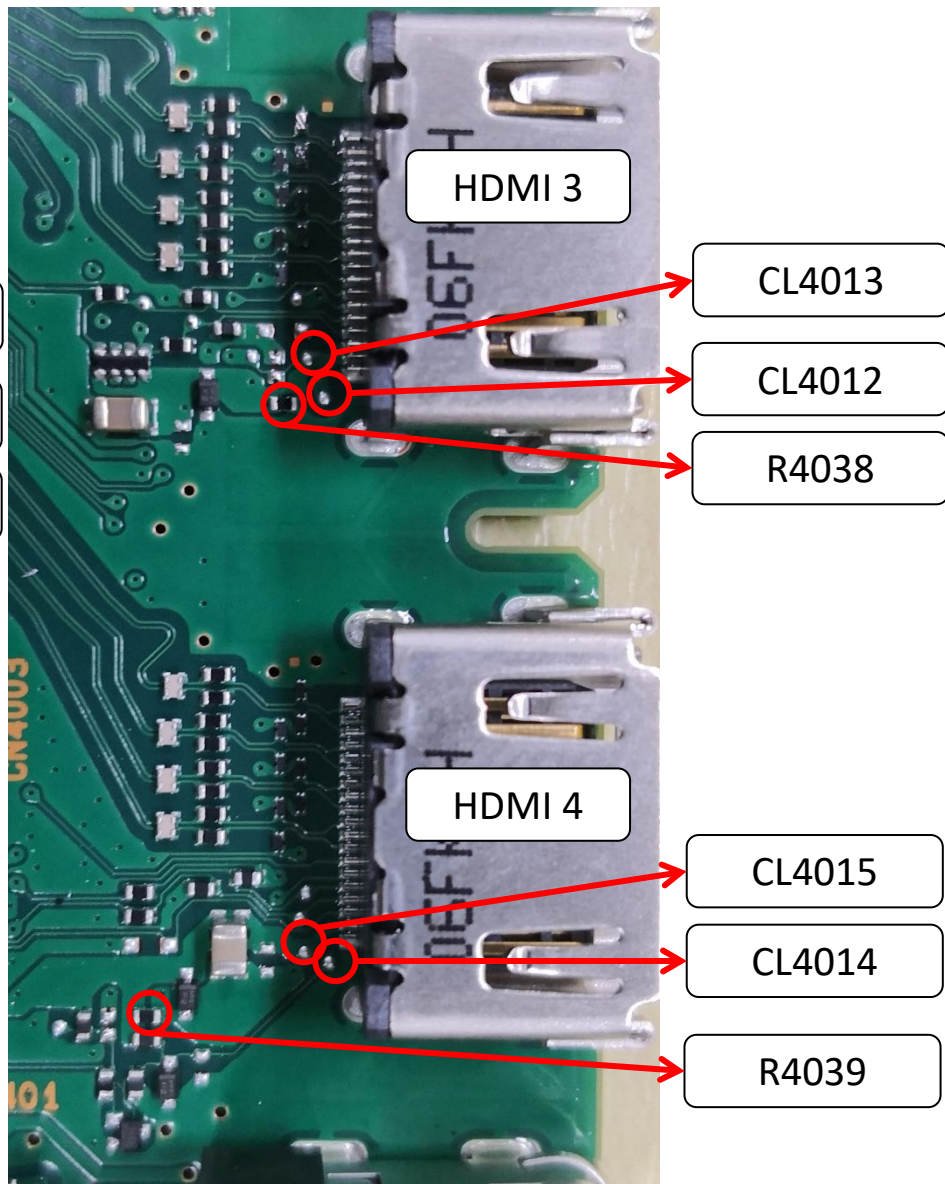
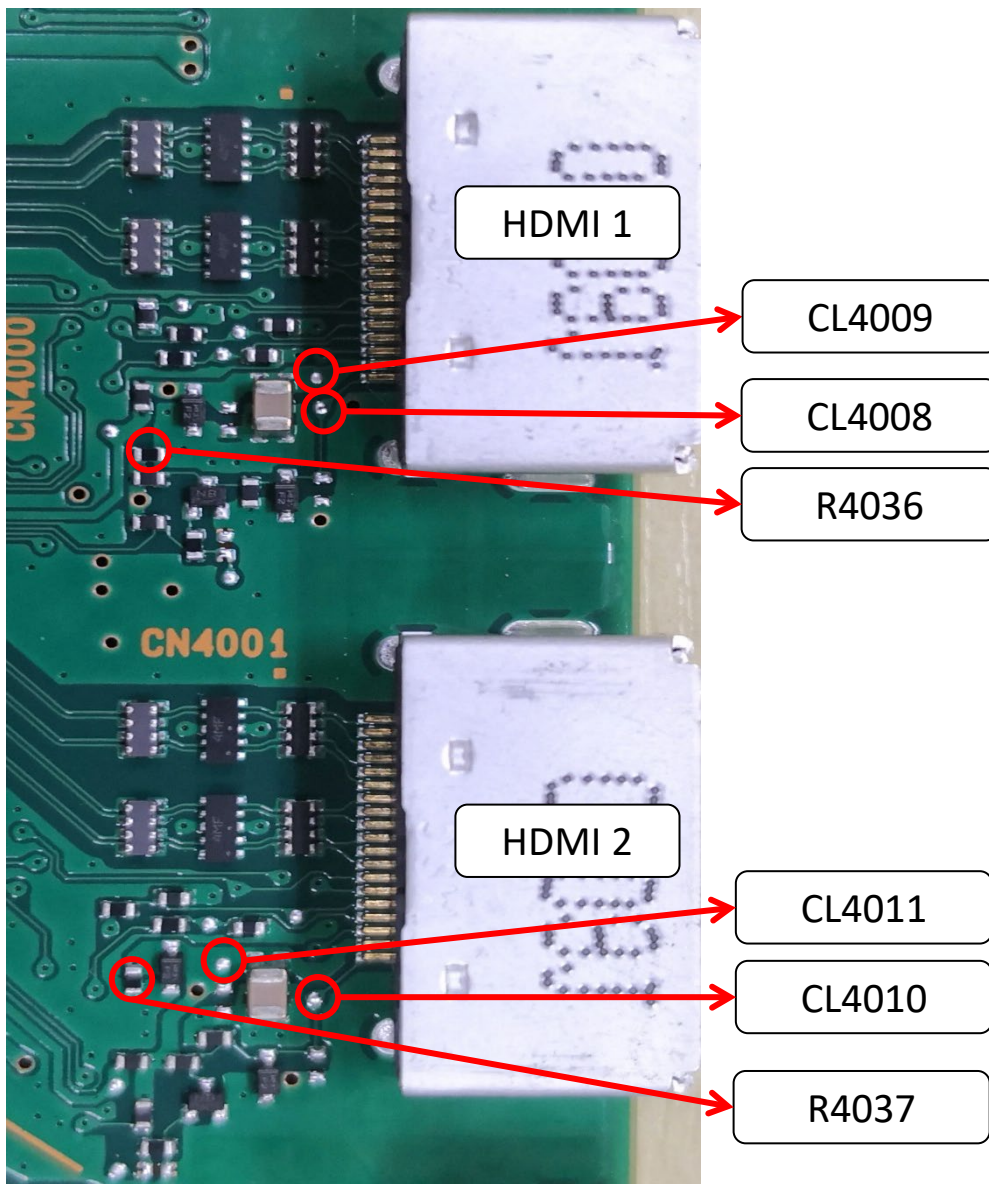
### 4.5 No Picture: Check Points HDMI 1,2,3 & 4

HDMI 1  
+5V part :R4036  
+5V line :CL4009  
HPD line :CL4008

HDMI 2  
+5V part :R4037  
+5V line :CL4011  
HPD line :CL4010

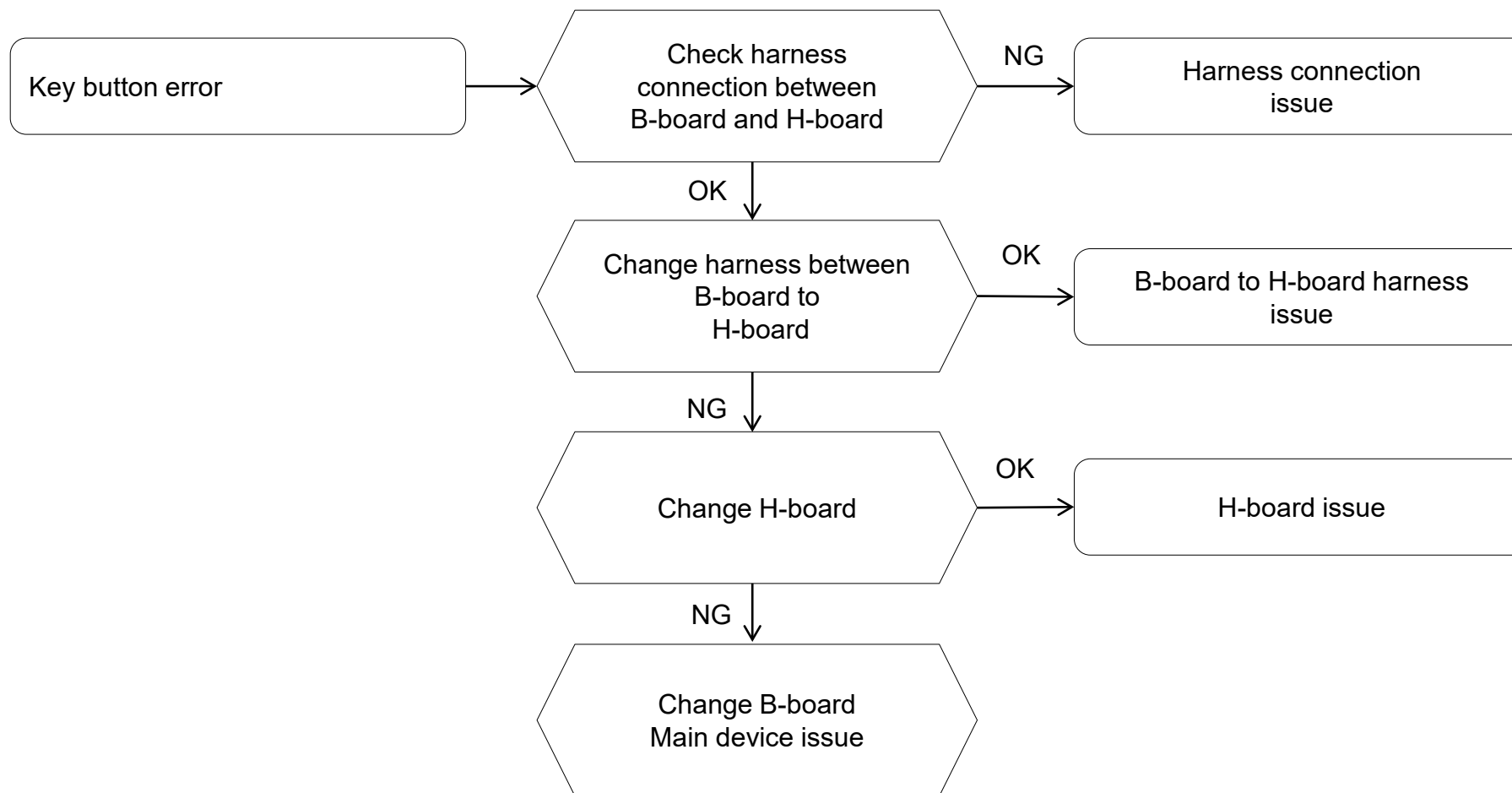
HDMI 3  
+5V part :R4038  
+5V line :CL4013  
HPD line :CL4012

HDMI 4  
+5V part :R4039  
+5V line :CL4015  
HPD line :CL4014



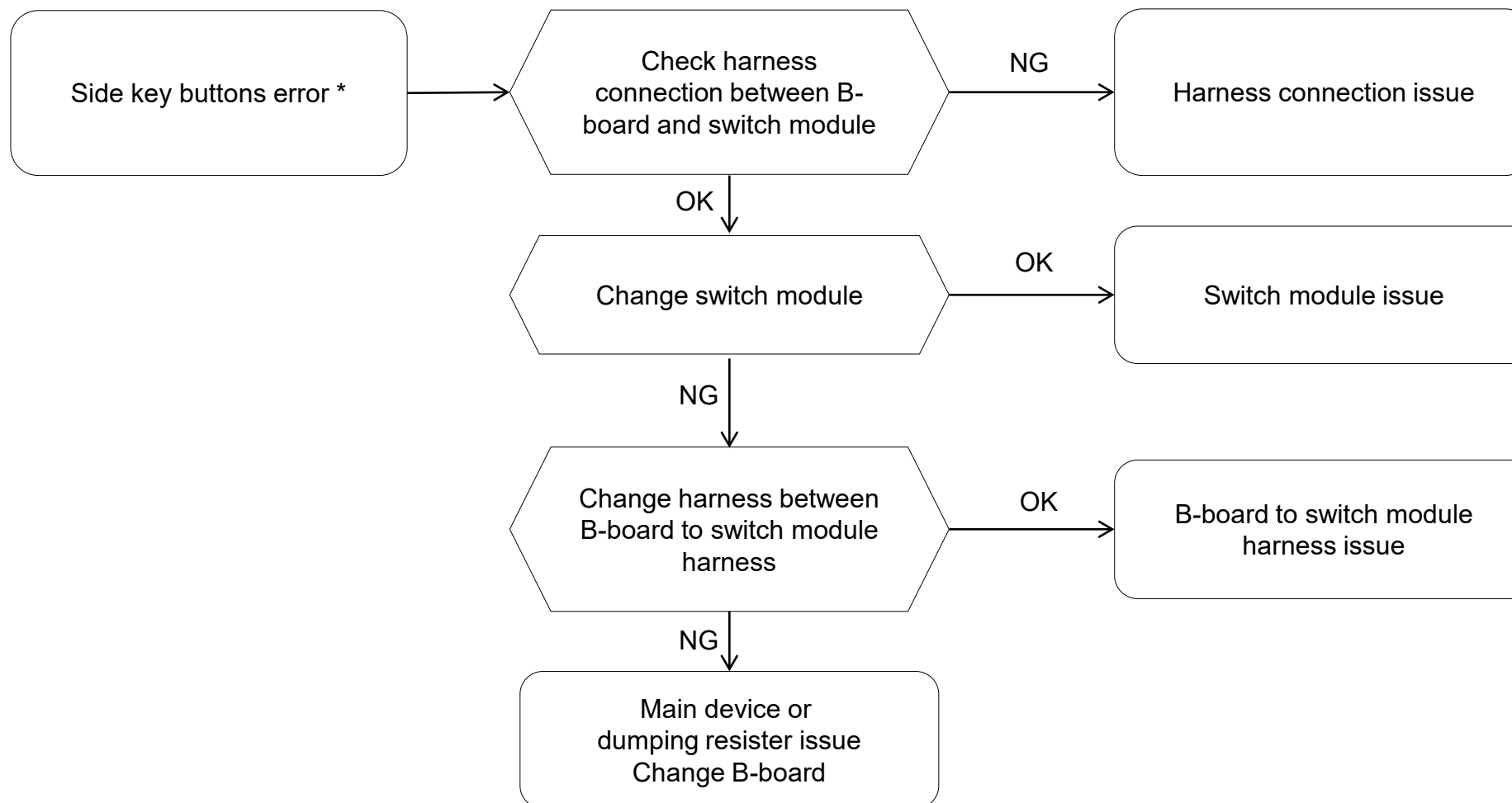
# TROUBLESHOOTING

## 5.0 Key Switch Button Error – H-board Switch



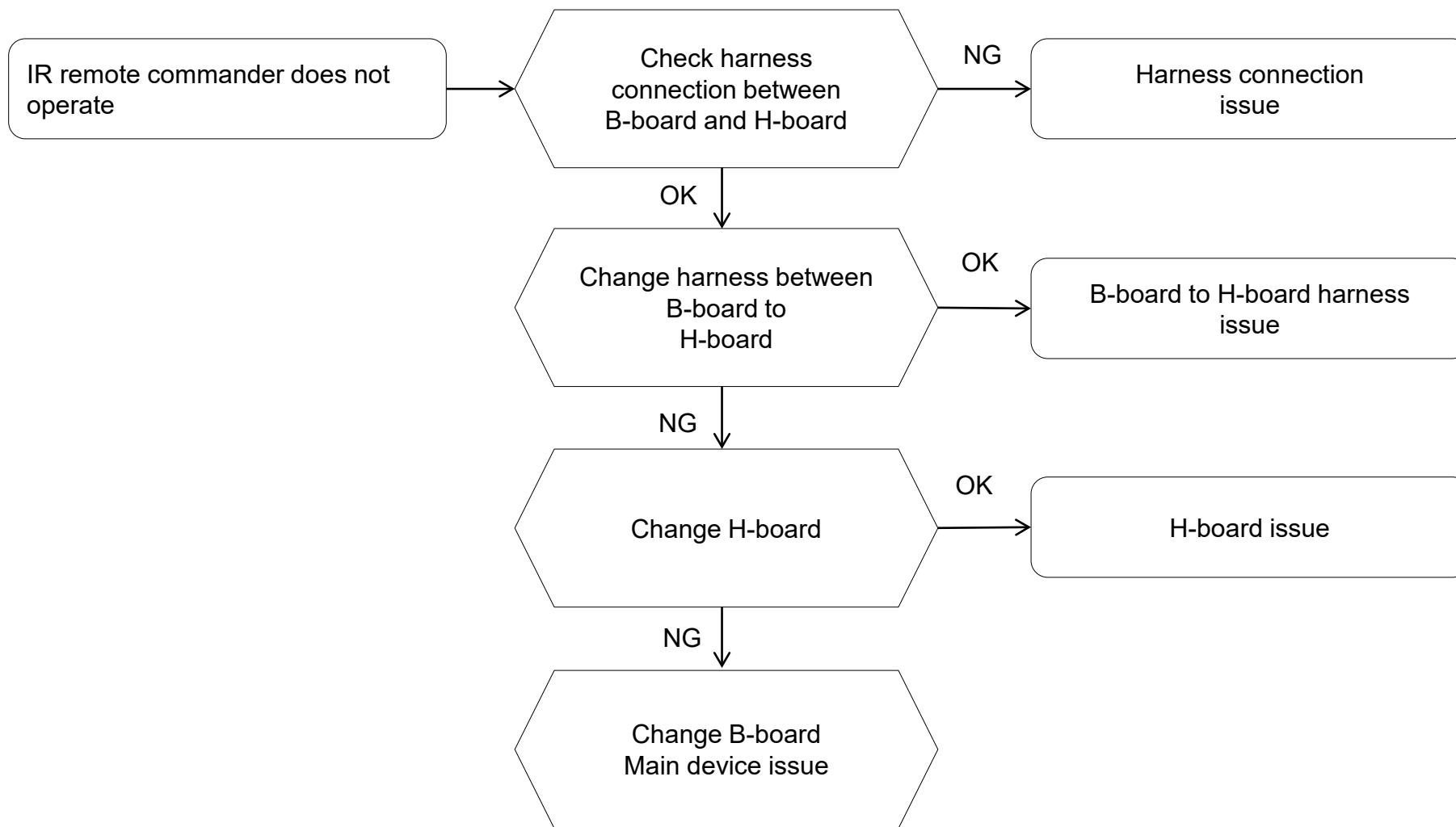
## TROUBLESHOOTING

### 5.0 Key Switch Button Error - Switch module – XR-83A80\*



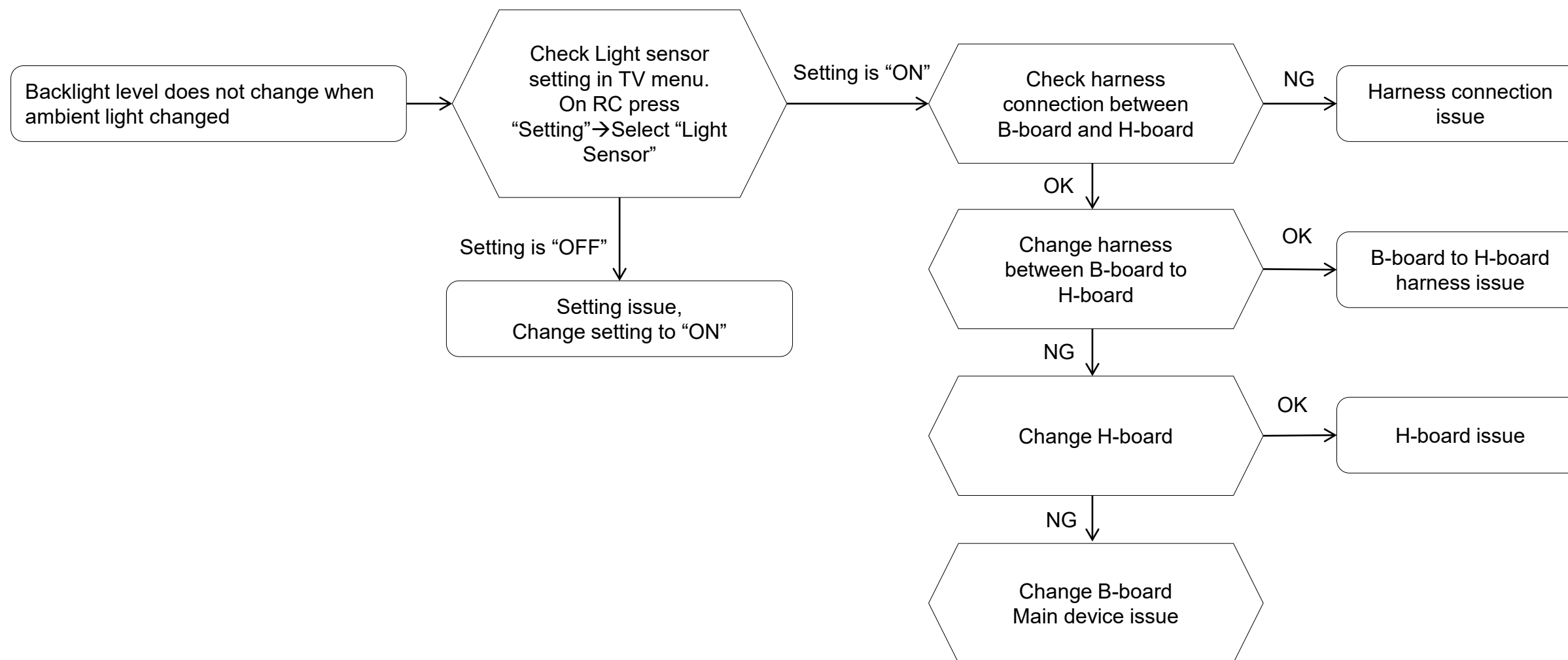
# TROUBLESHOOTING

## 5.1 IR Remote Commander Error



## TROUBLESHOOTING

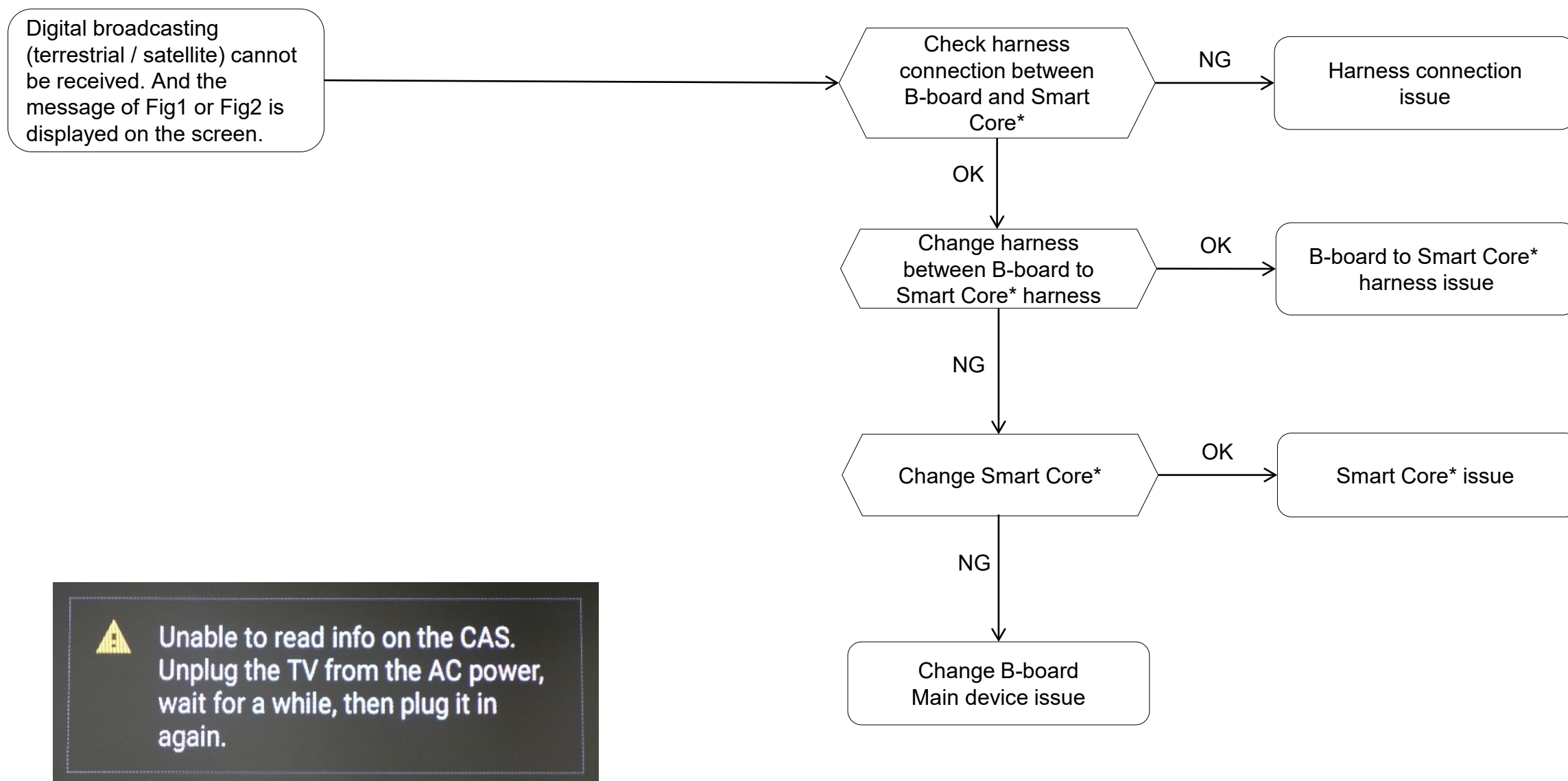
### 5.2 Light Sensor Error





## TROUBLESHOOTING

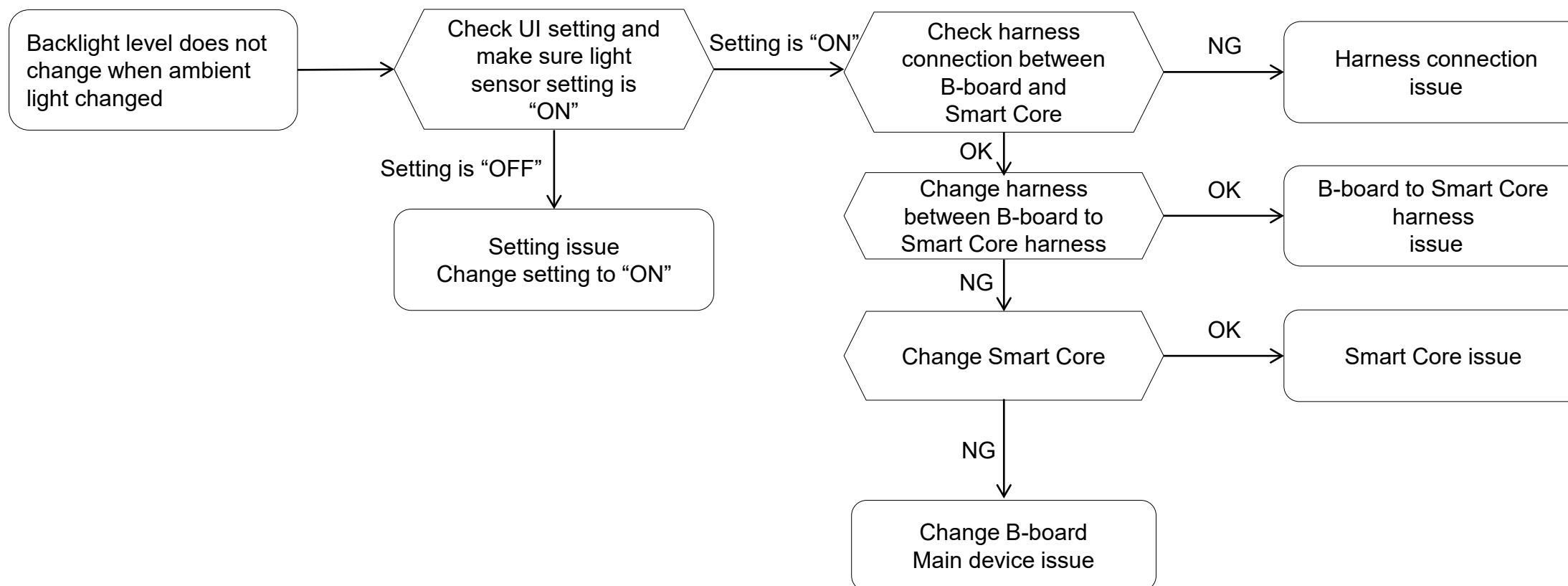
### 5.3 CAS ID Unknown



\*Smart Core = H-board (HY1 / HY2)

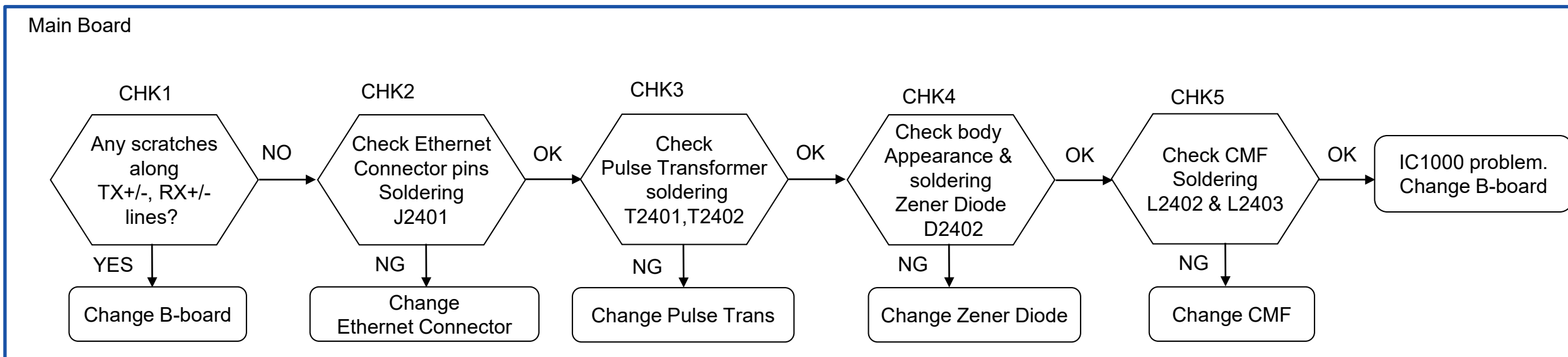
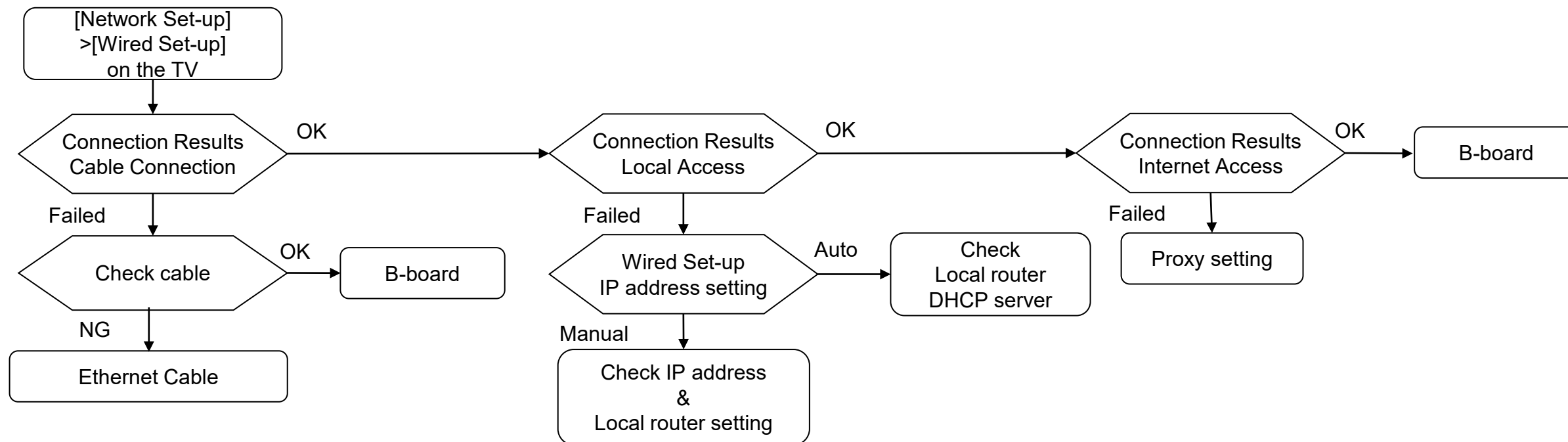
## TROUBLESHOOTING

### 5.3 CAS ID Unknown – XR-83A80\*



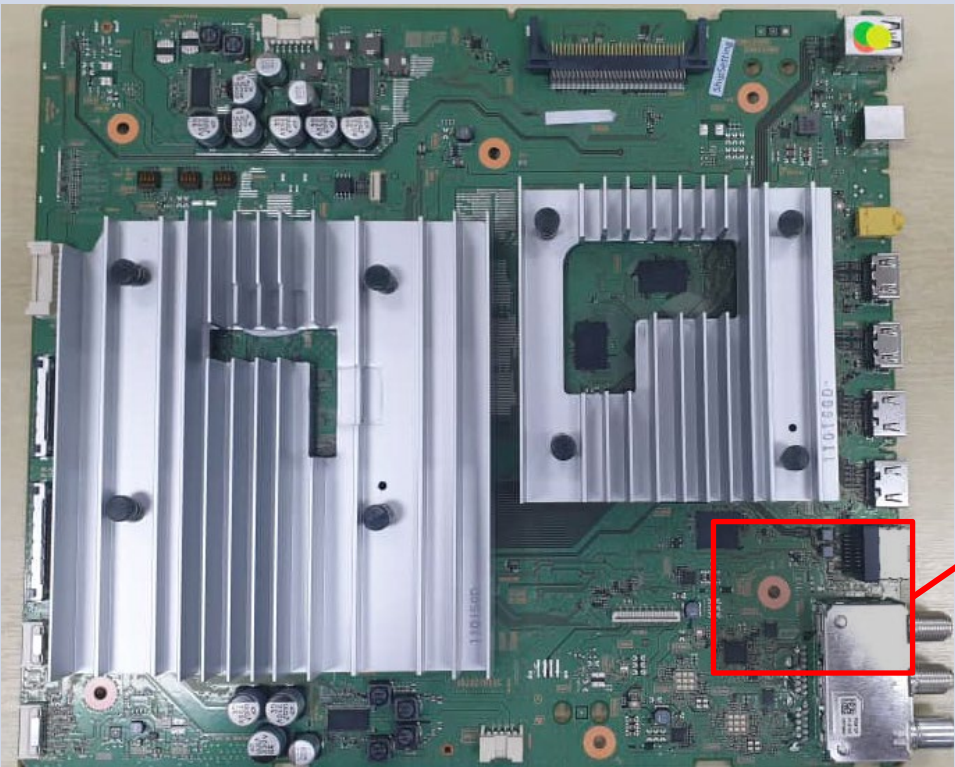
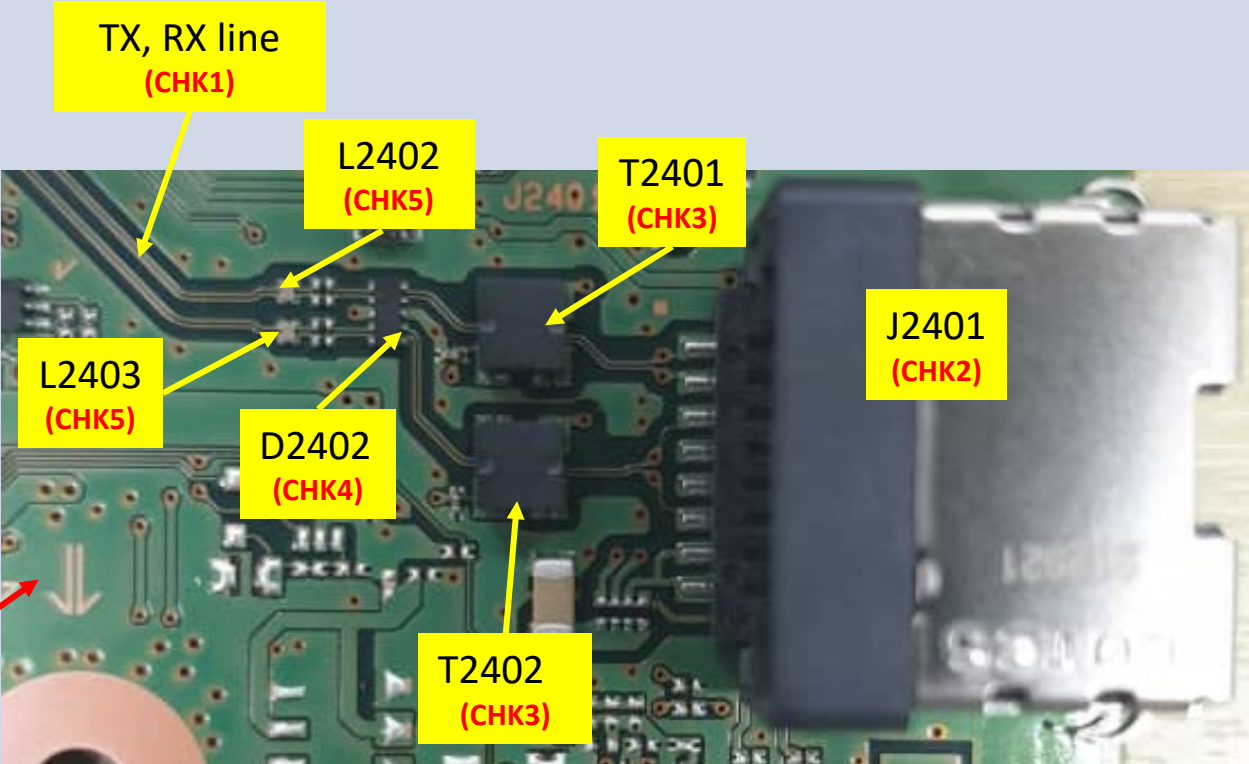
# TROUBLESHOOTING

## 6.0 Network Malfunction: Ethernet (wired)



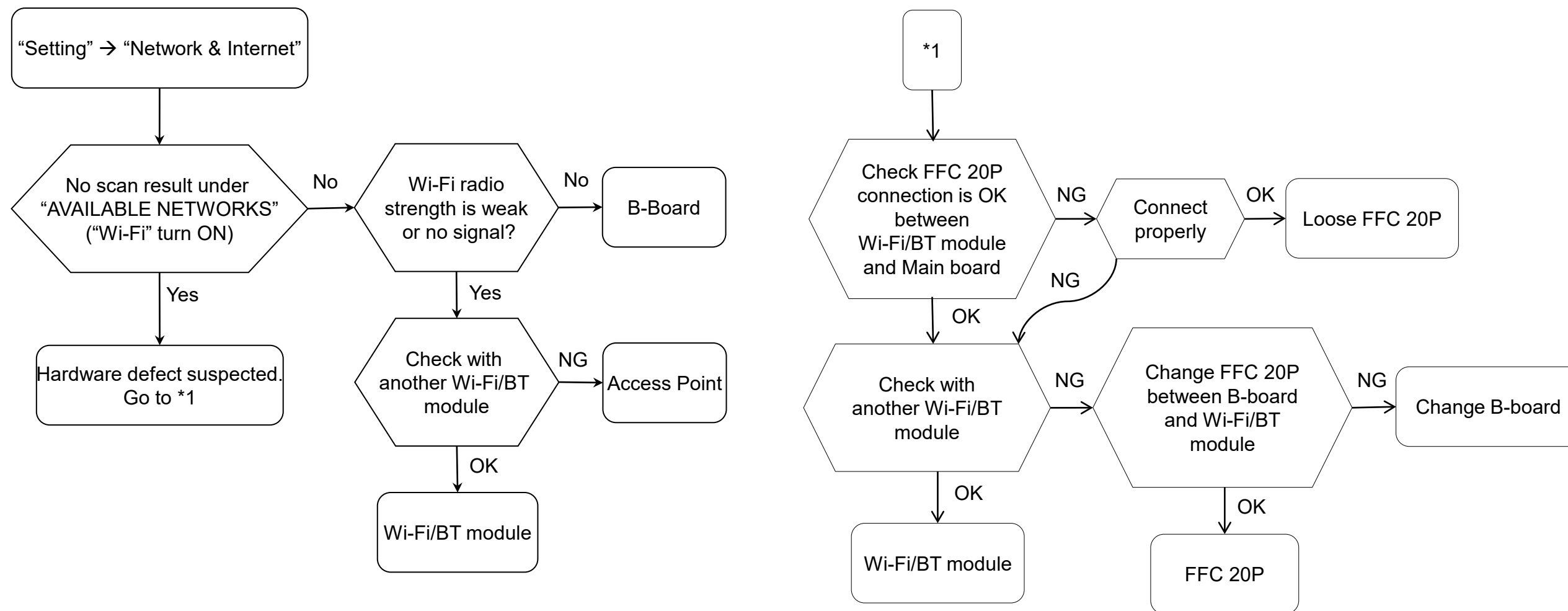
# TROUBLESHOOTING

## 6.1 Network Malfunction: Ethernet (wired)

Name	Full Board (A side)	Zoomed in view
<p><b>BM5STY</b> (Actual board)</p>		

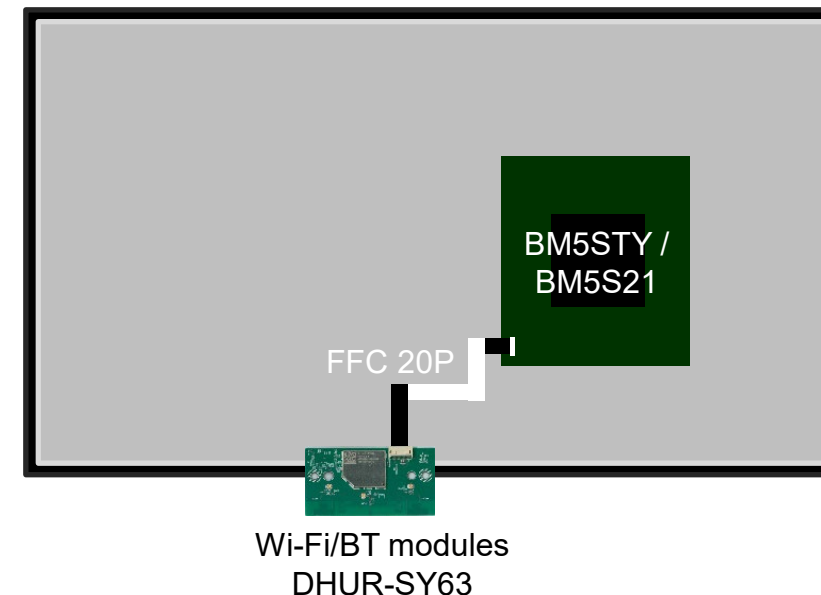
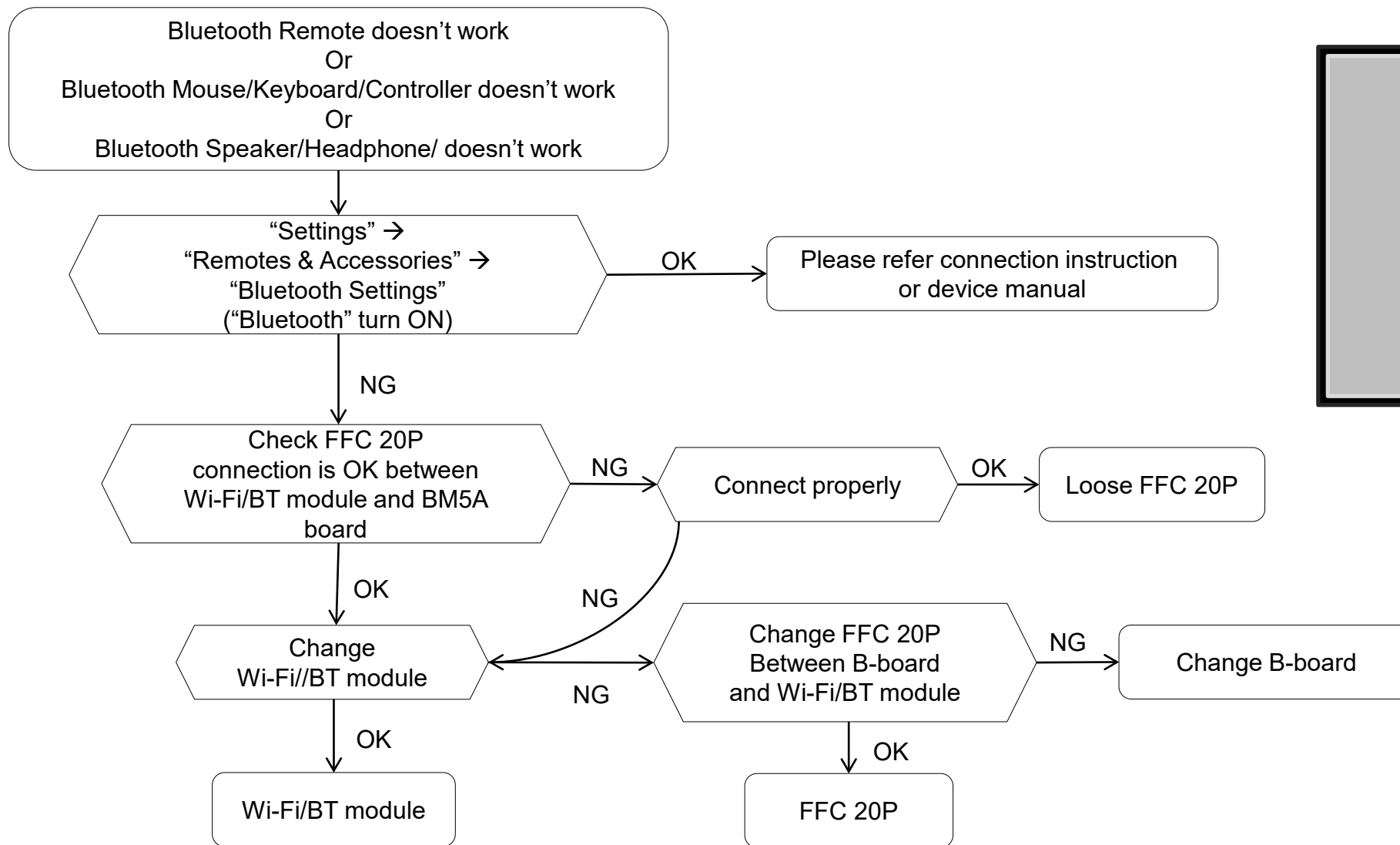
## TROUBLESHOOTING

### 6.2 Wi-Fi Bluetooth - Wireless Network malfunction



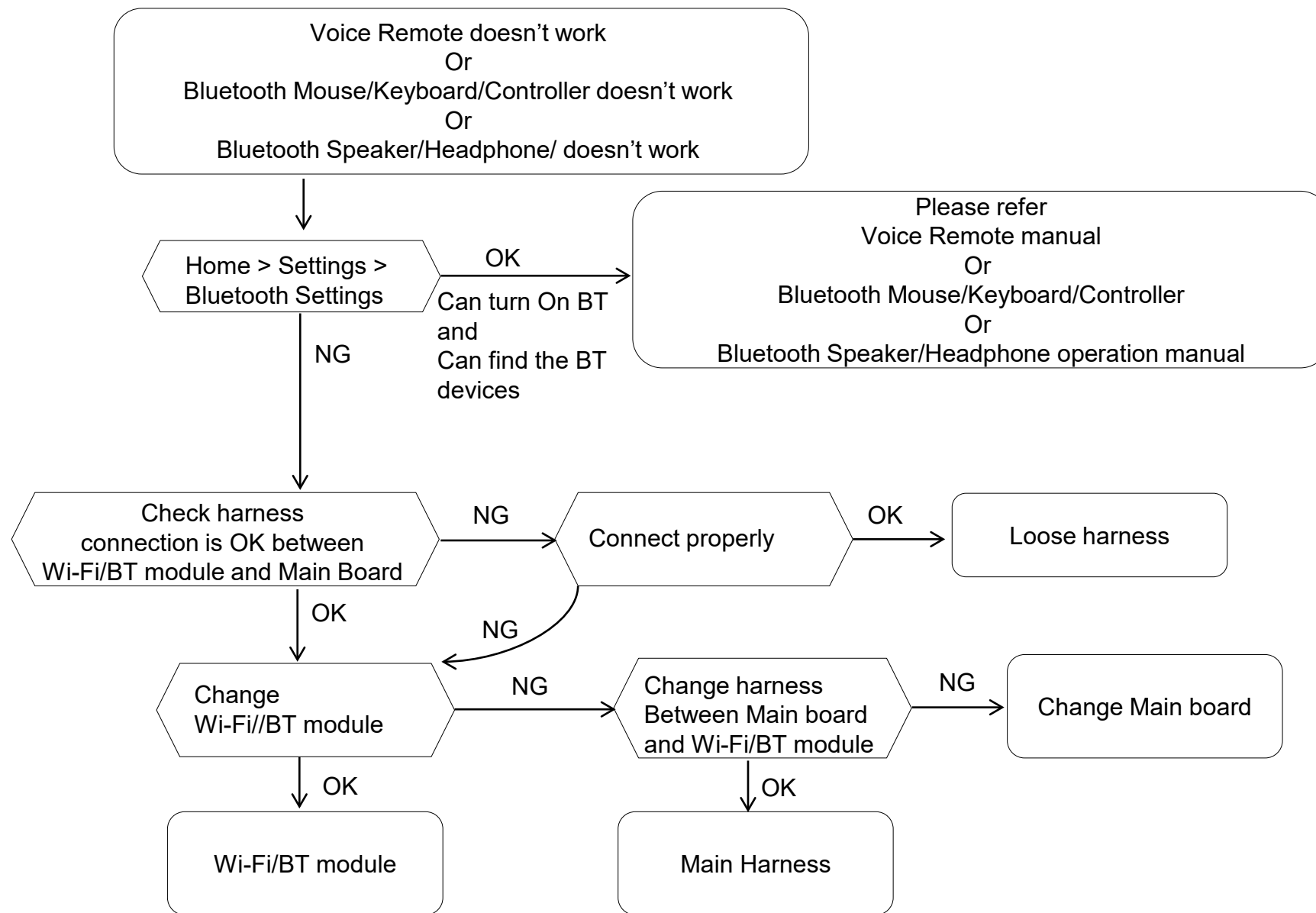
# TROUBLESHOOTING

## 6.3 Wi-Fi Bluetooth - Bluetooth malfunction



## TROUBLESHOOTING

### 6.3 Wi-Fi Bluetooth - Bluetooth malfunction – XR-83A80\*



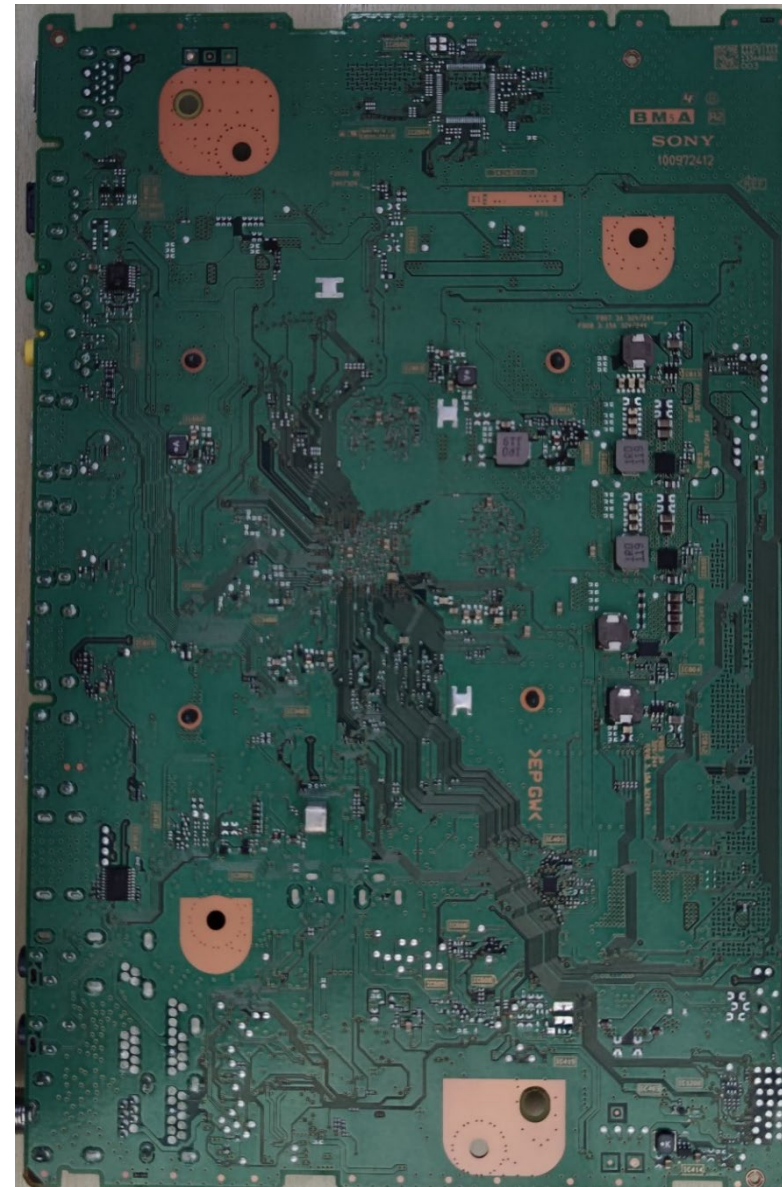
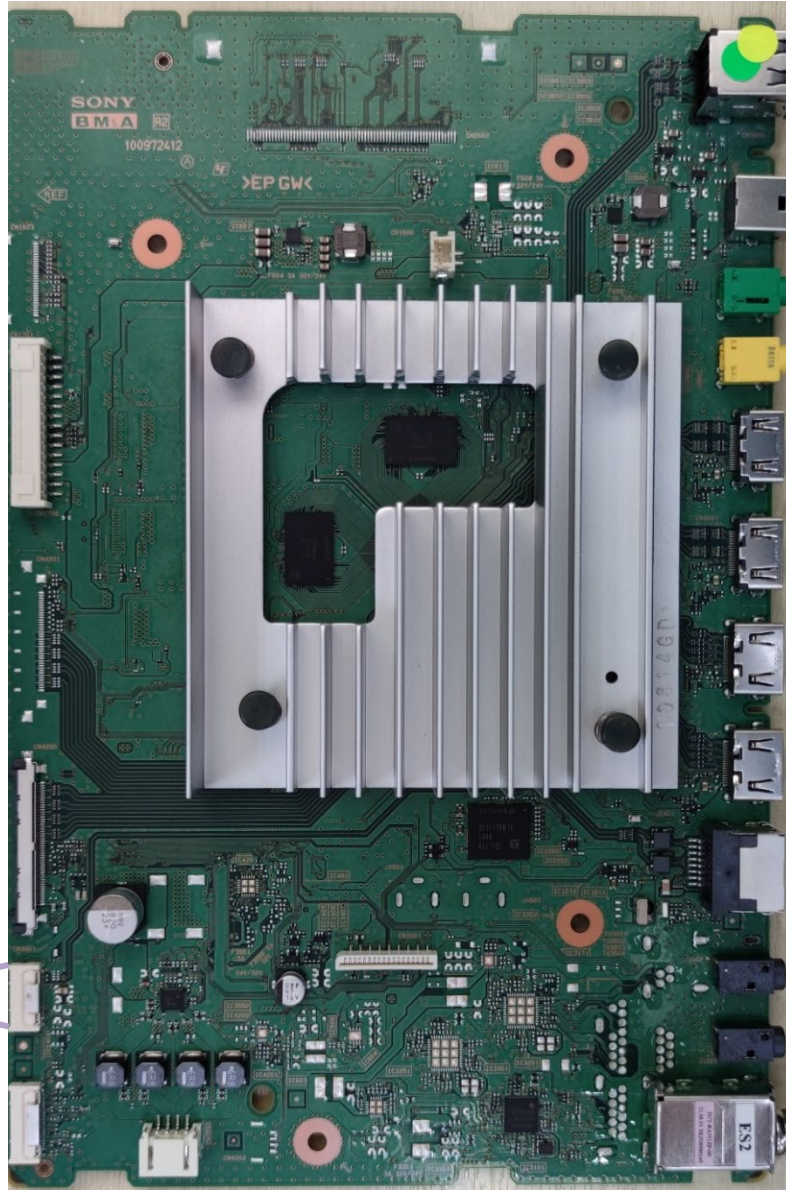
# TROUBLESHOOTING

## 6.3 Wi-Fi Bluetooth

A Side

B Side

Wi-fi connector

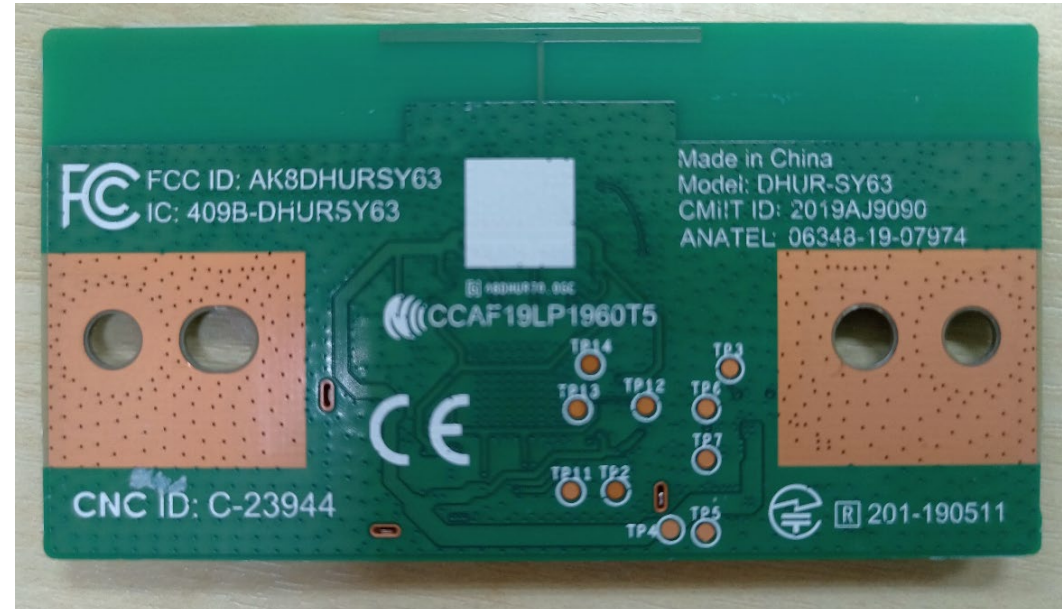
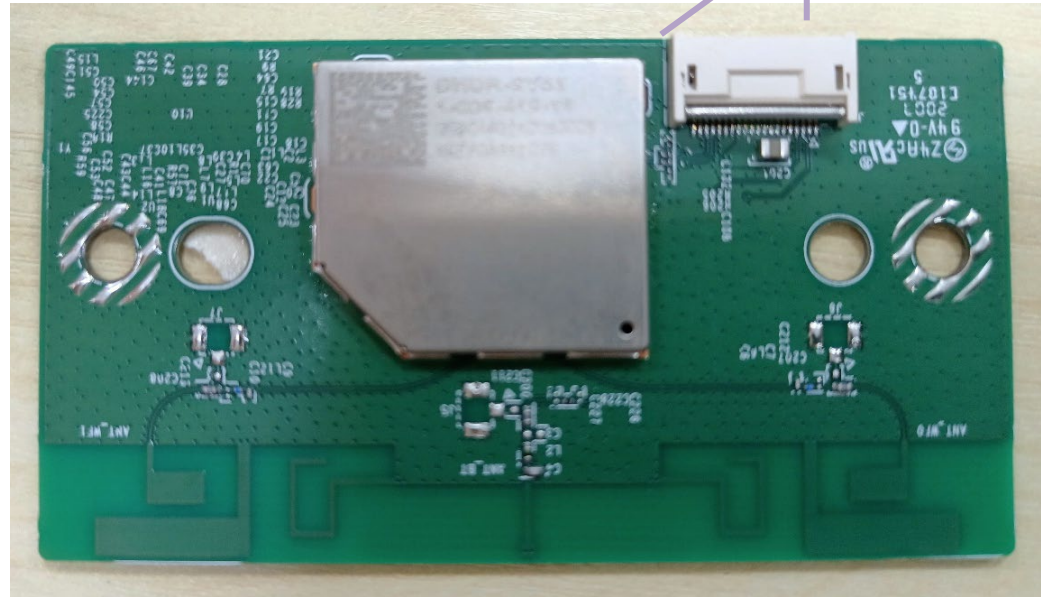




# TROUBLESHOOTING

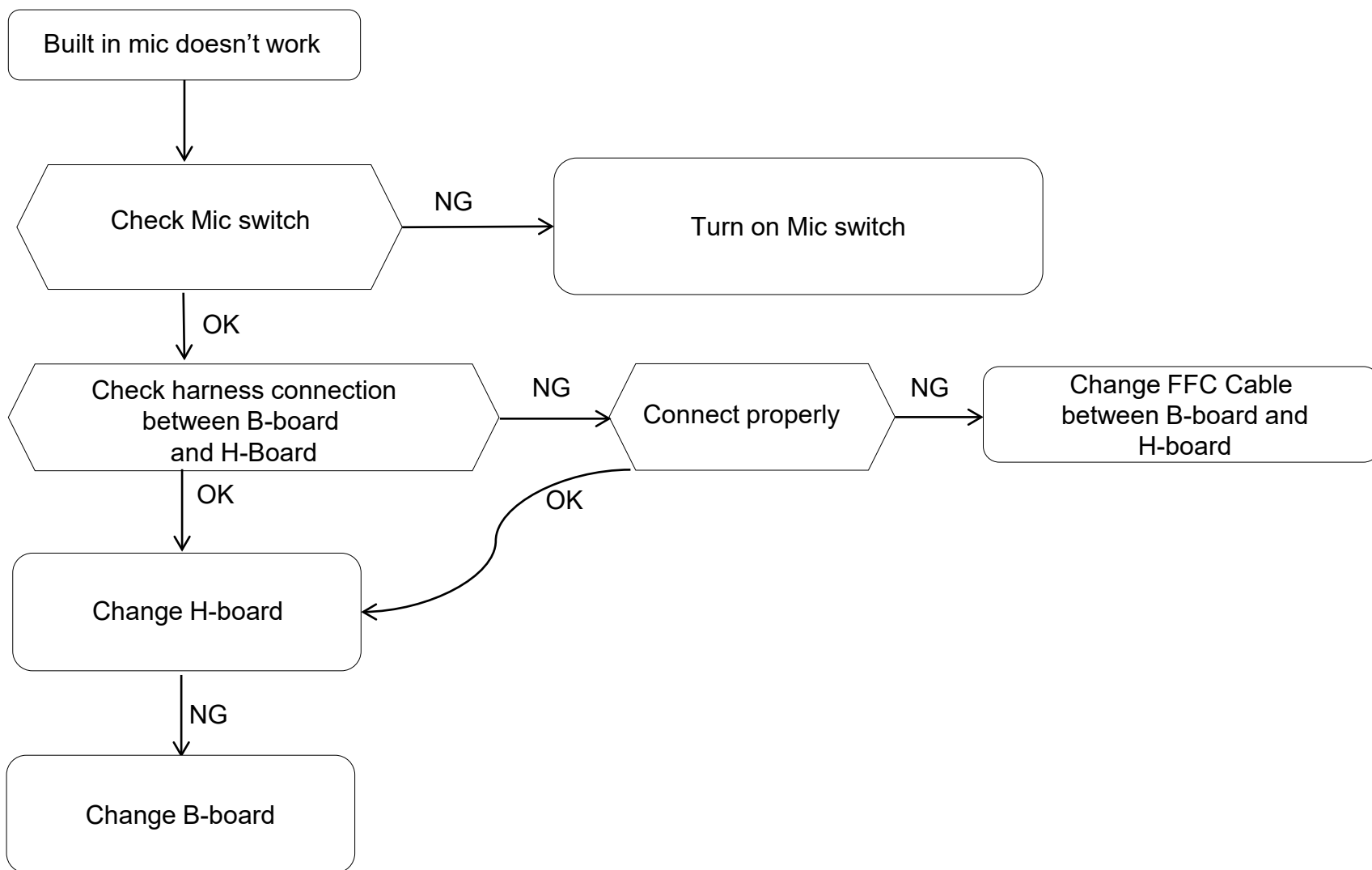
## Wi-Fi Module

Wi-fi connector

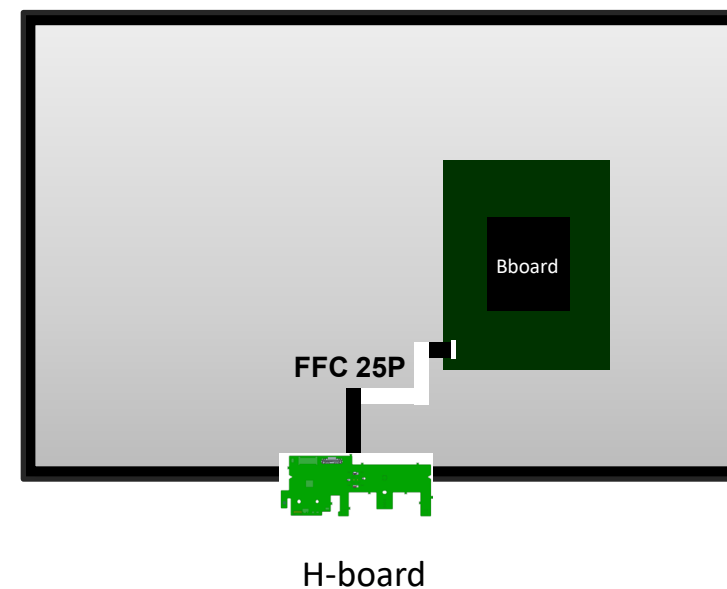


# TROUBLESHOOTING

## 6.4 Built in Mic Malfunction

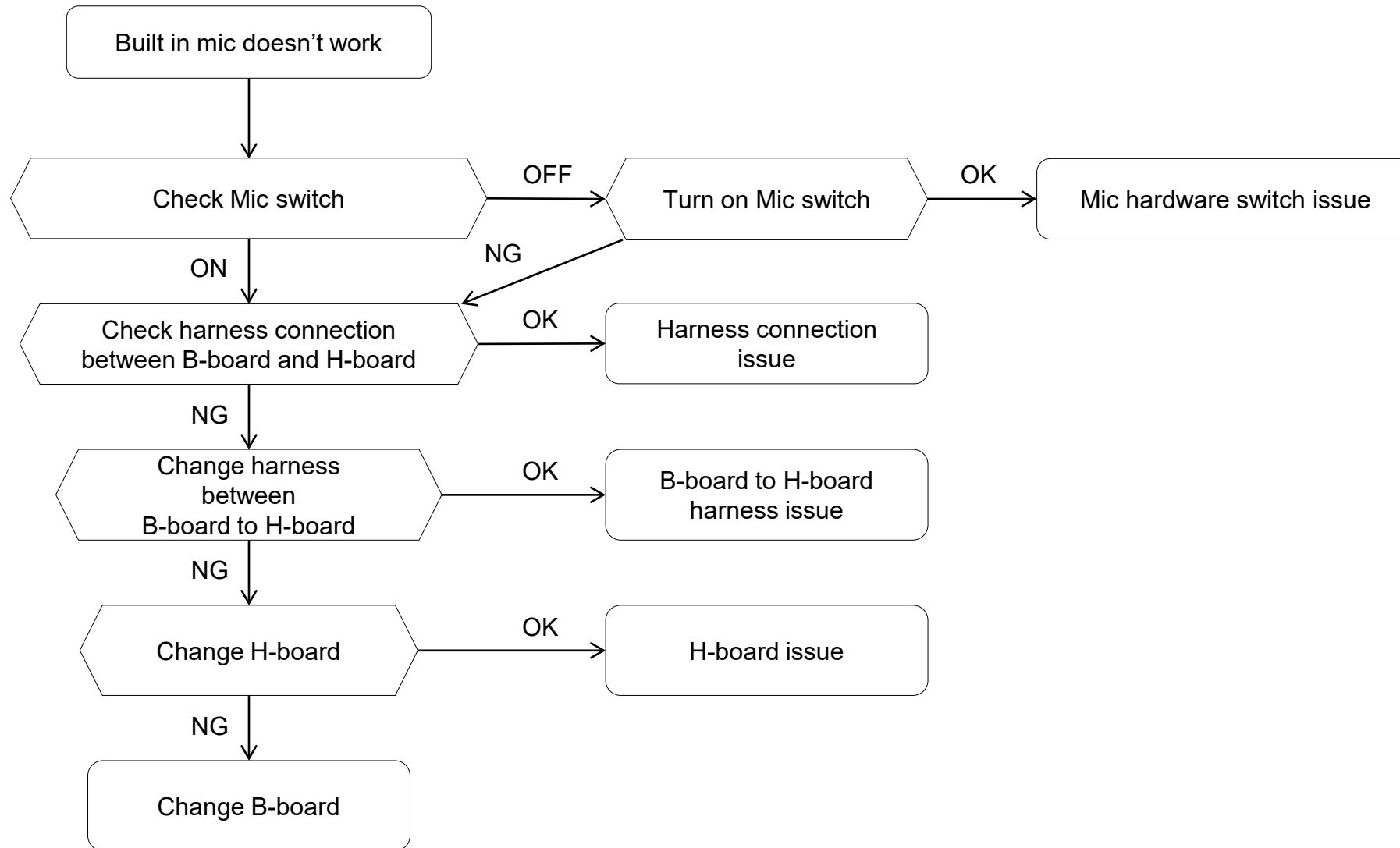


	FS / FS2 / FSL2
<b>B-board</b>	BM5STY
<b>H-board</b>	HY1 / HY2



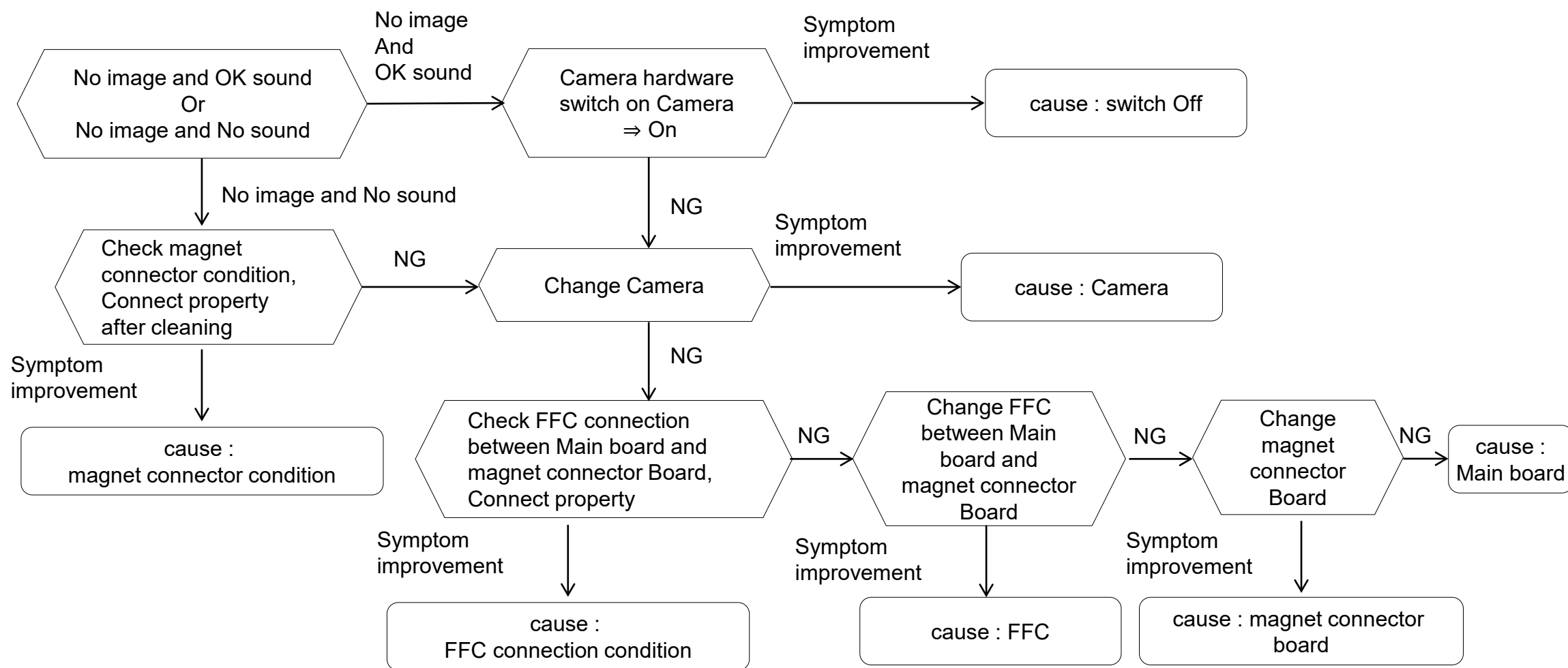
## TROUBLESHOOTING

### 6.4 Built in Mic Malfunction - B-board or H-board Switch – XR-83A80\*



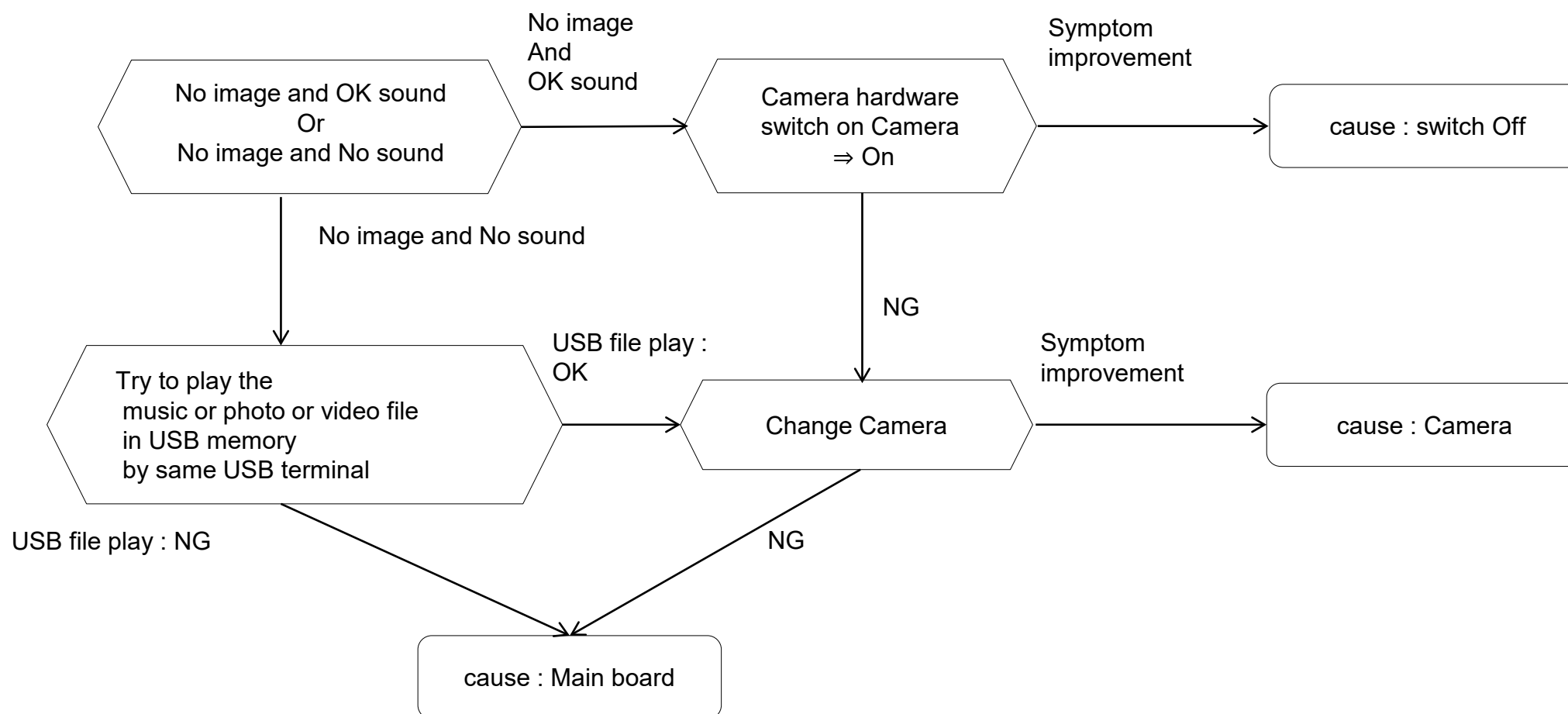
## TROUBLESHOOTING

### 6.5 Camera Magnet connector type Camera (Bundle)



## TROUBLESHOOTING

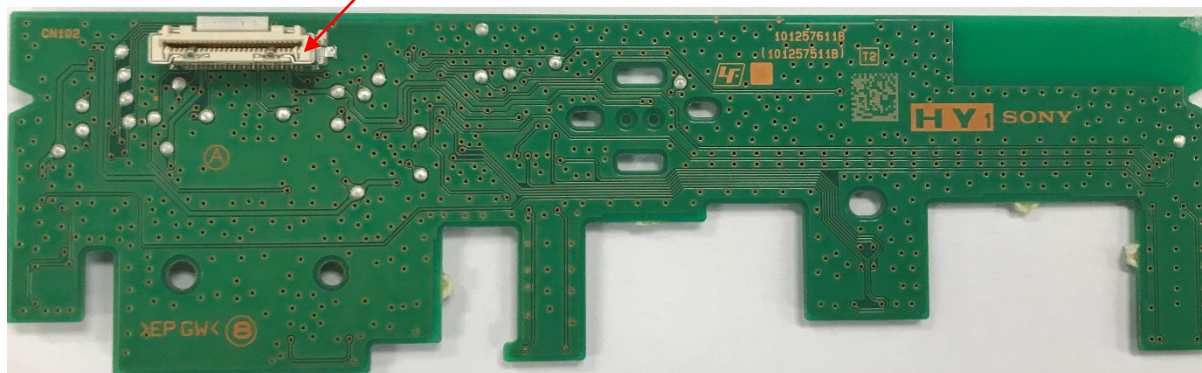
### 6.5 Camera USB connector type Camera (Accessory)



# TROUBLESHOOTING

## Board View

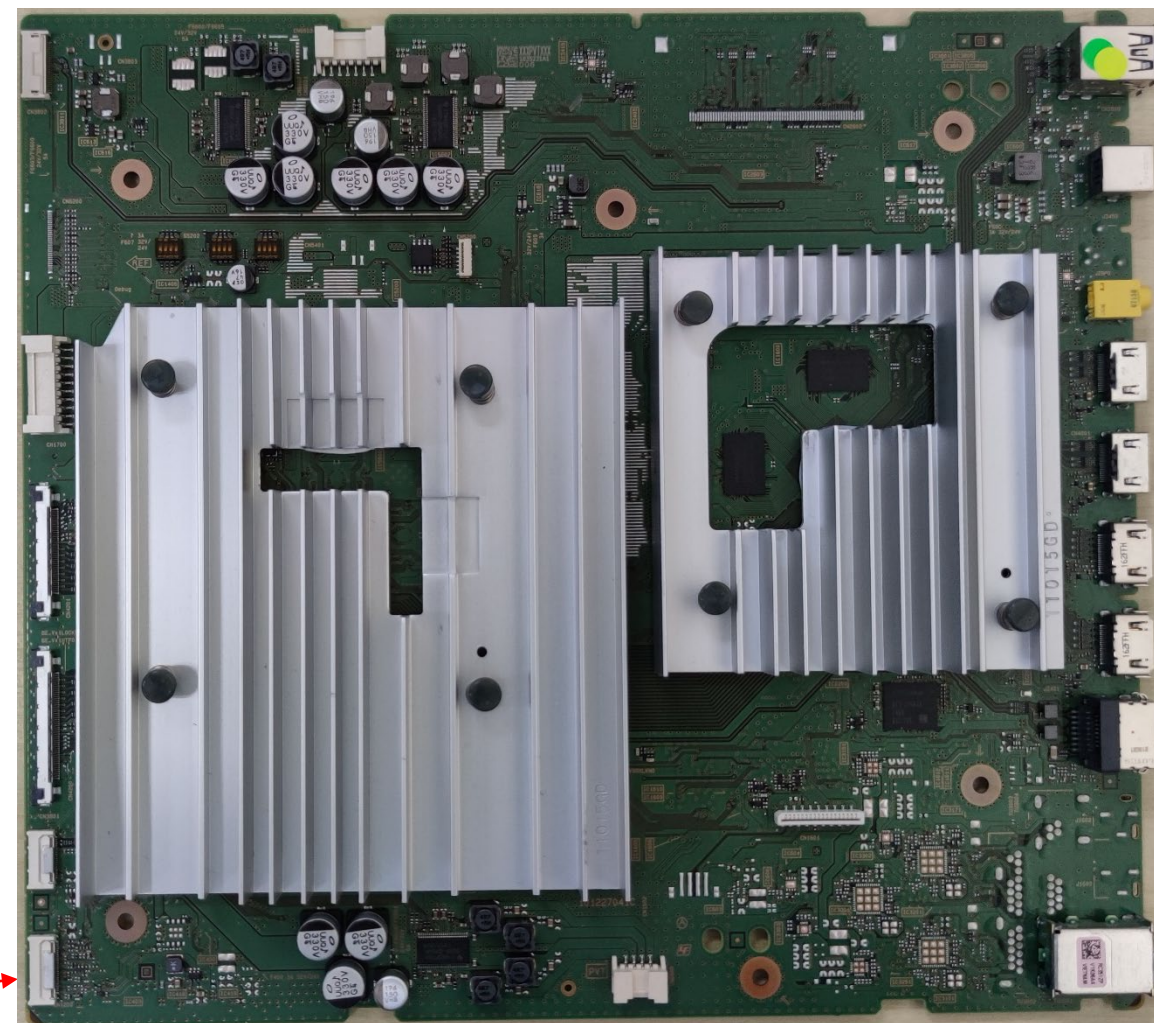
HY1 / HY2  
(Top view)



H-board  
connector

H-board  
connector

BM5STY (Top view)



# SOFTWARE UPDATE & RESET

## USB Update

**Caution: Do not power off while the update is in progress.**

1: Download USB image and unzip file.

2: Copy zip file to USB memory root folder.

3: USB memory insert TV.

**4-a:USB image is newer soft version.**  
Automatically show message and start update.  
Please follow directions.

**4-b:USB image is not newer soft version.**  
Automatically show message.  
Please follow directions.

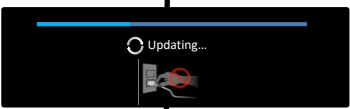
**Updating your TV software...** 46%

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 **10** minutes to complete. Press the BACK button on your remote control to cancel the update.

**System software update**

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

OK



The system reboot will happen once or twice

5: finished

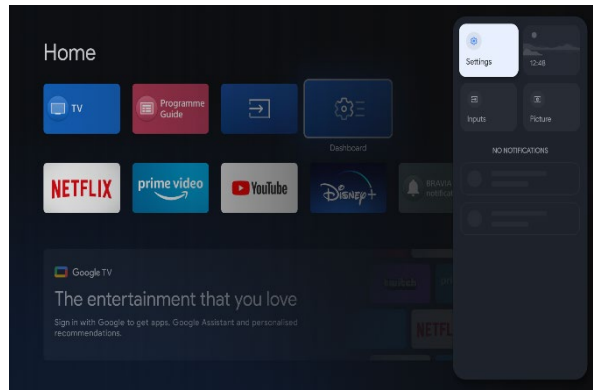
5: finished

※ Display may change depending on the model / SW version.

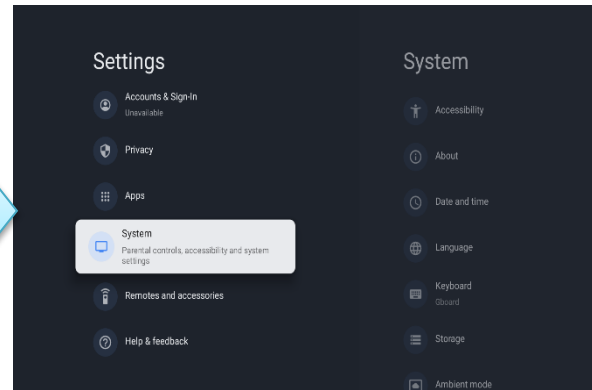
# SOFTWARE UPDATE & RESET

## Factory Data Reset – with UI method

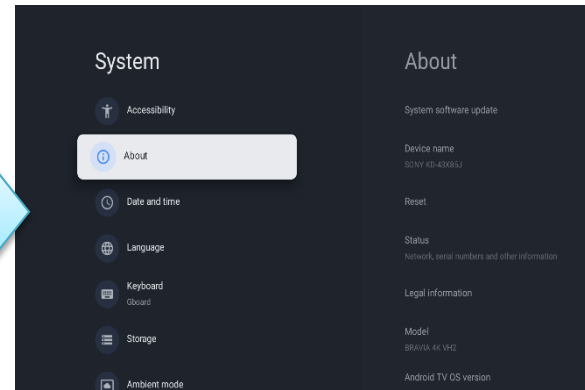
1. At Home Menu, go to Settings



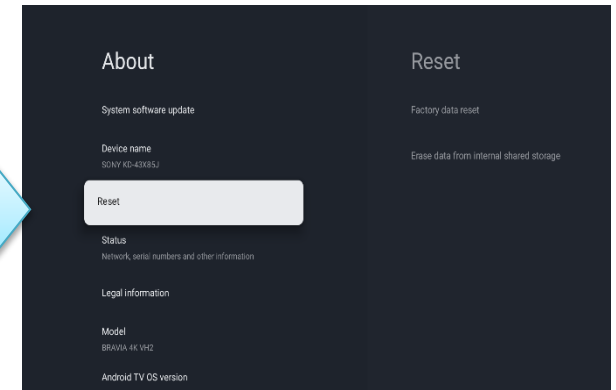
2. Select System / Device Preferences



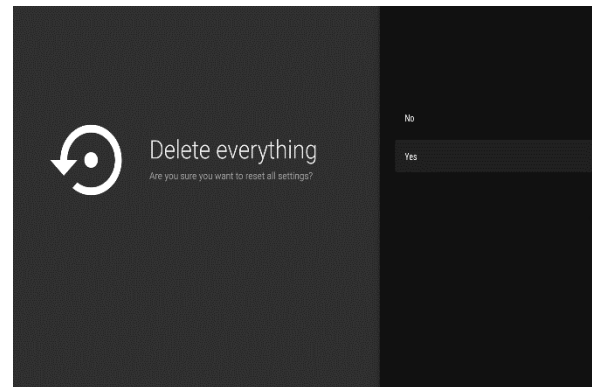
3. In System, select 'About'.



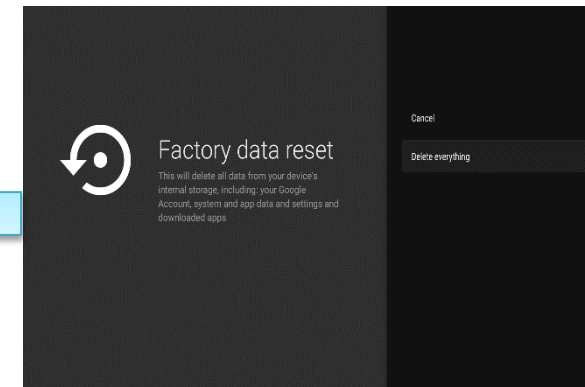
4. In About, Select 'Reset'



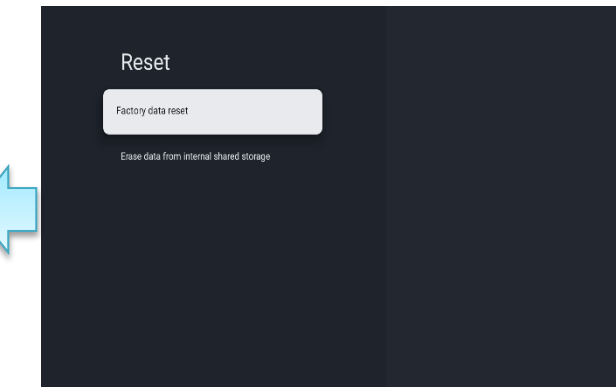
7. Select 'Yes'



6. Select 'Delete everything'



5. In Reset, Select 'Factory data reset'



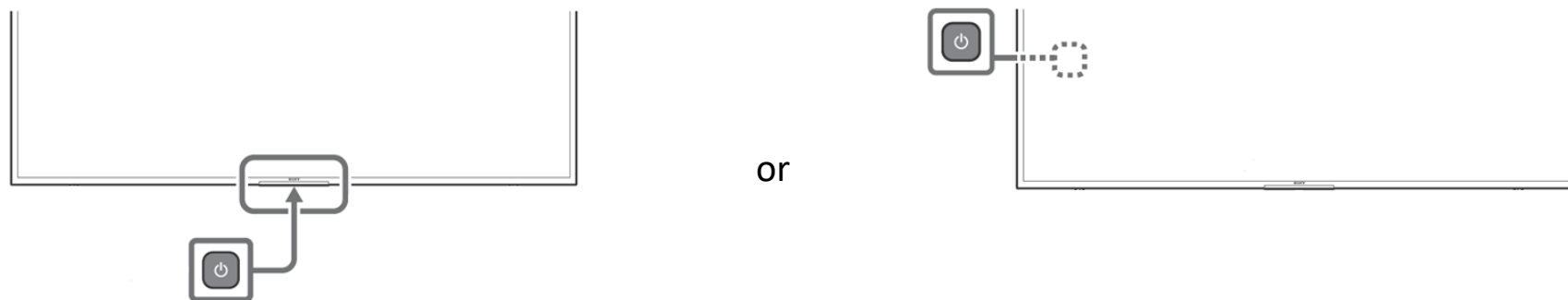


## SOFTWARE UPDATE & RESET

---

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

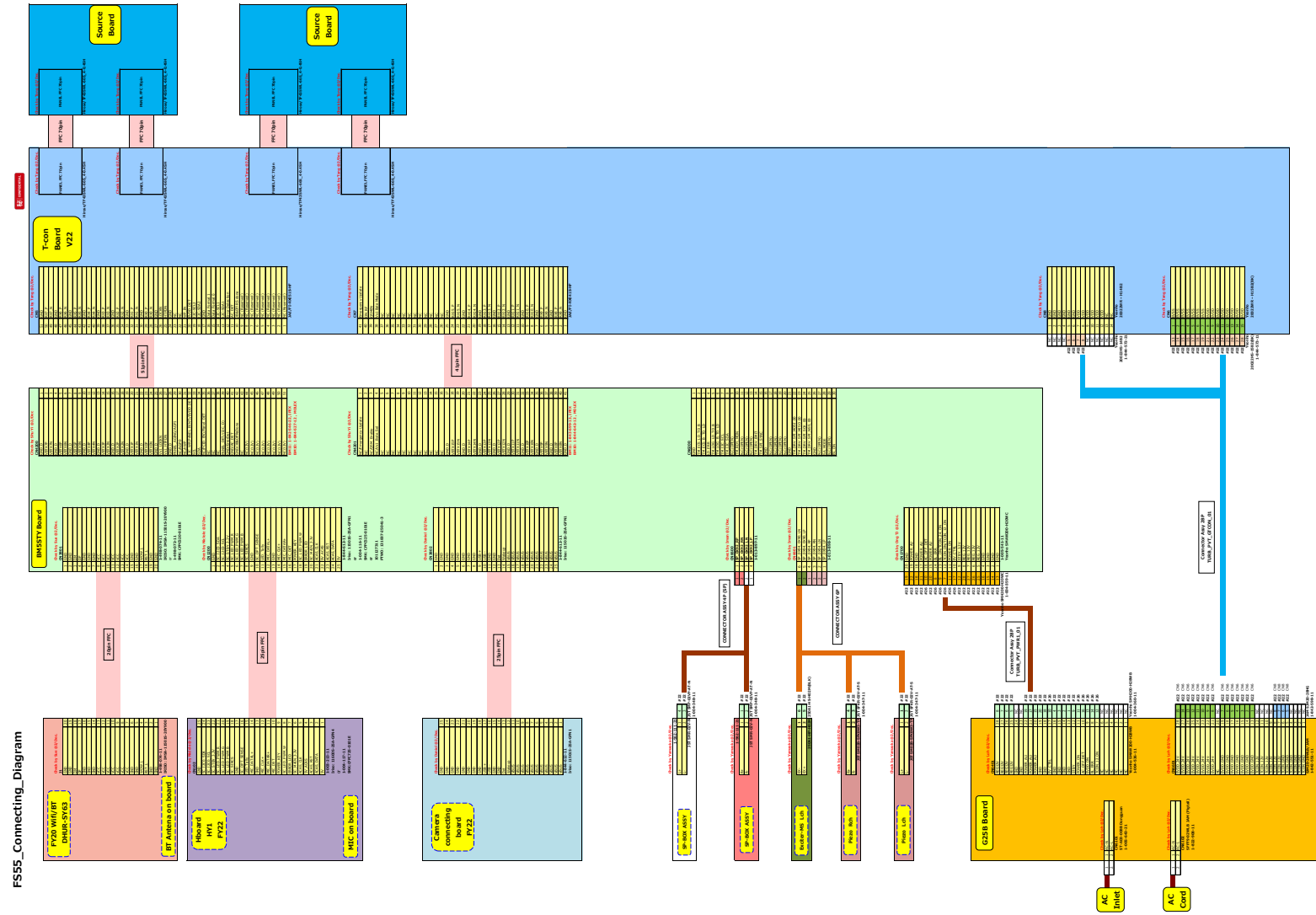
1. Press and hold the Power button. (The position of the Power button depends on the model.)



2. AC on.
3. Hold the Power button down for several seconds until the system starts Factory Data Reset.

# DIAGRAM

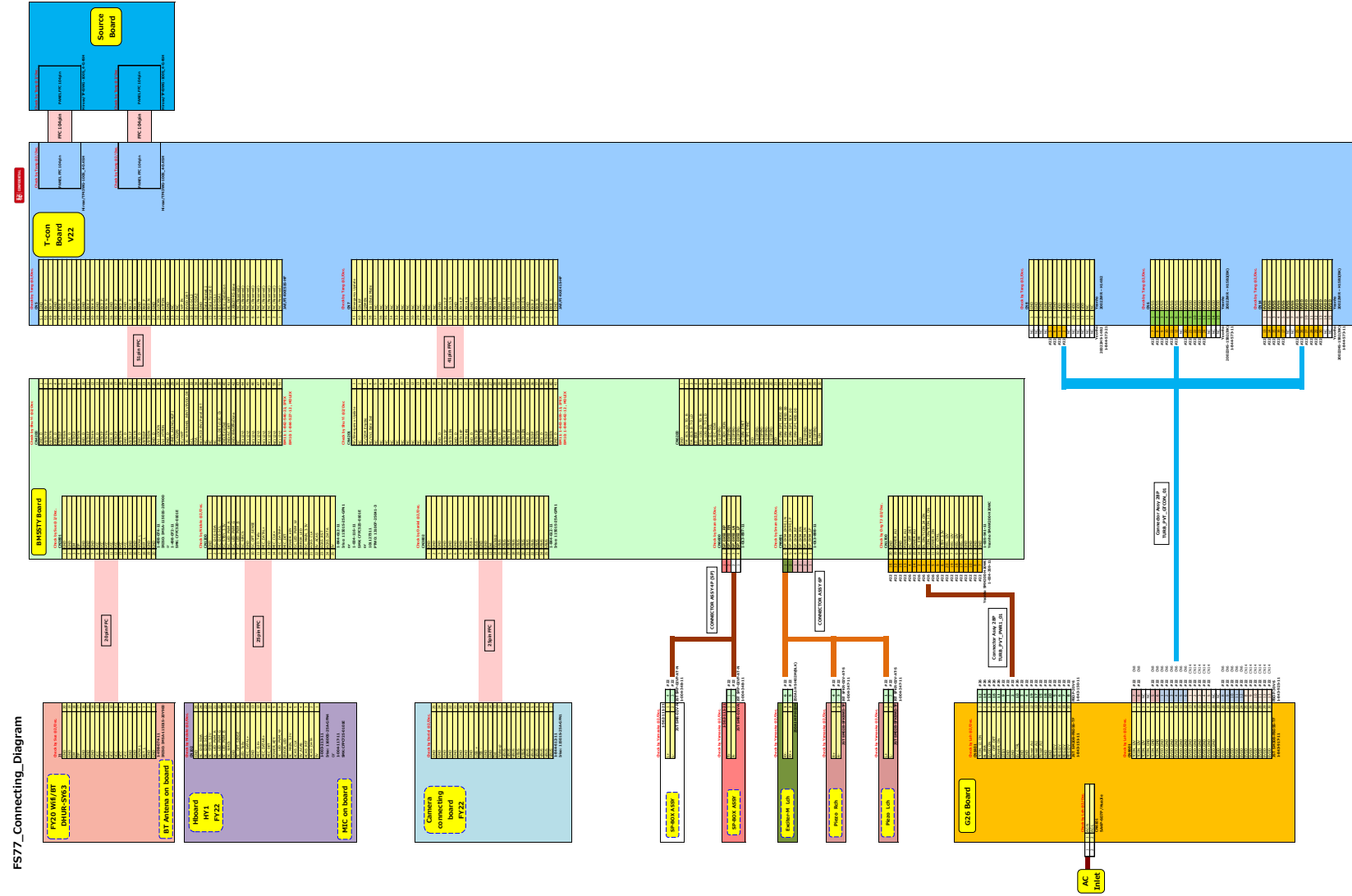
## Connecting Diagram: XR-55A80\*K





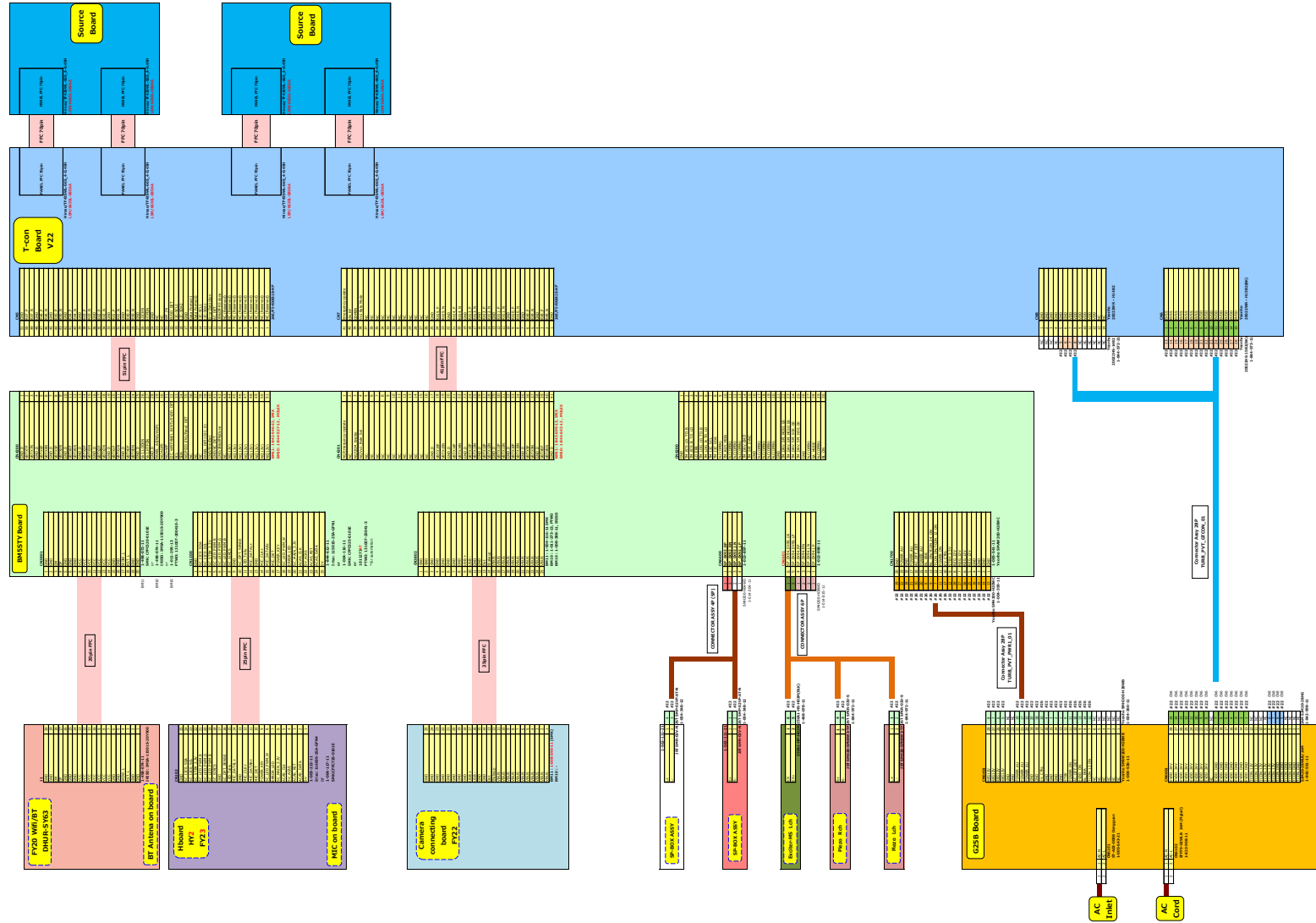
# DIAGRAM

## Connecting Diagram: XR-77A80\*K



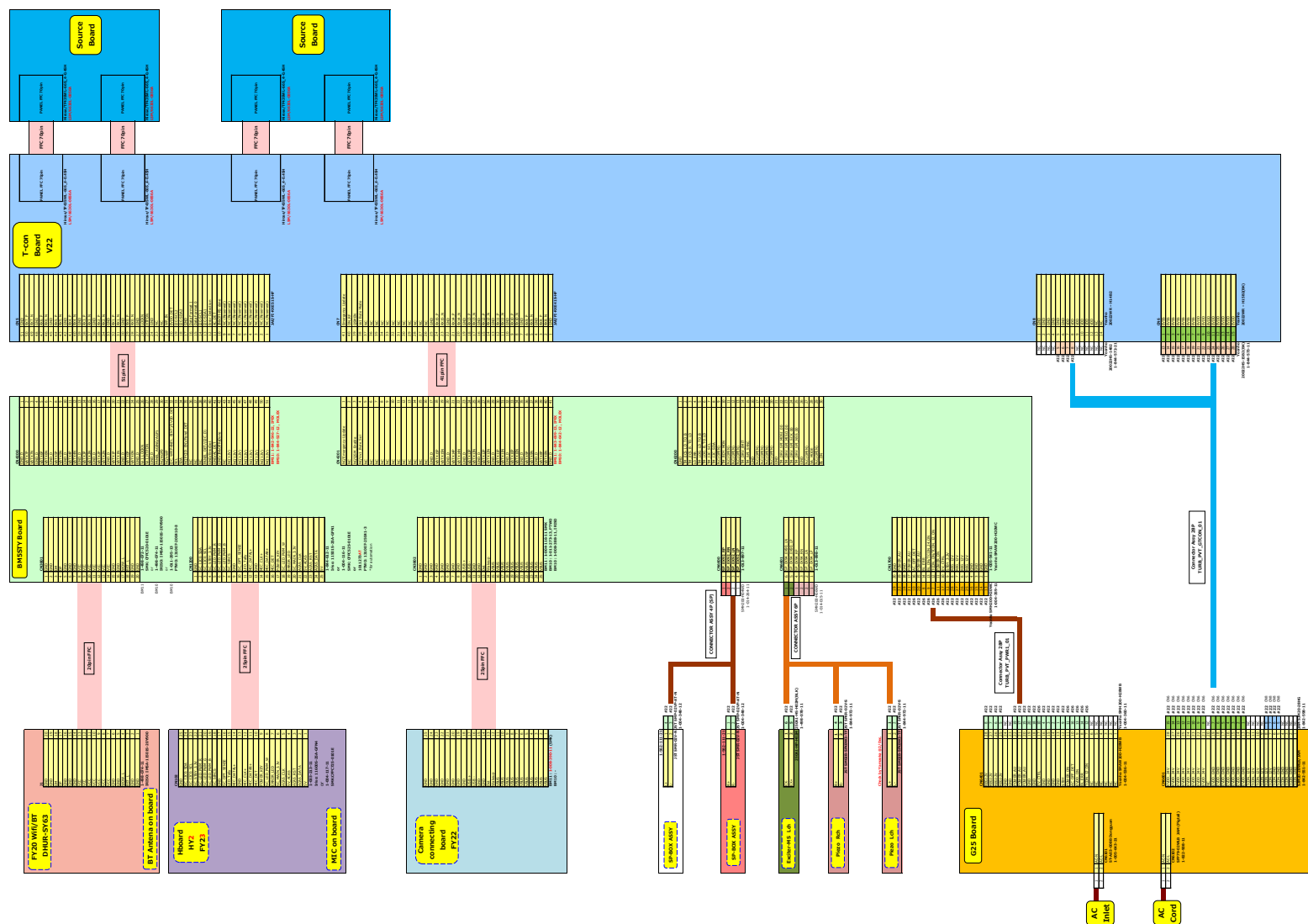
# DIAGRAM

## Connecting Diagram: XR-55A80\*L



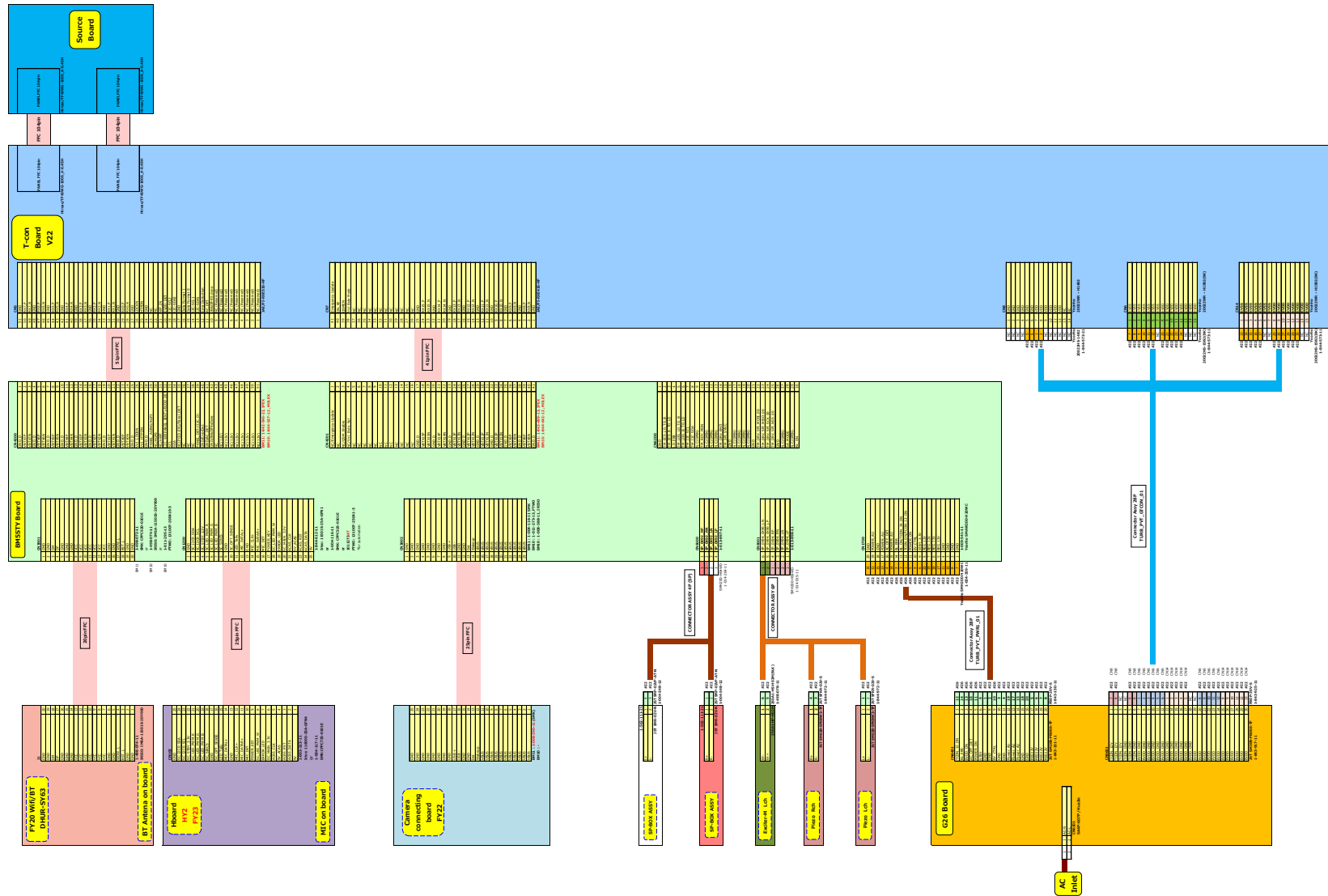
# DIAGRAM

## Connecting Diagram: XR-65A80\*L



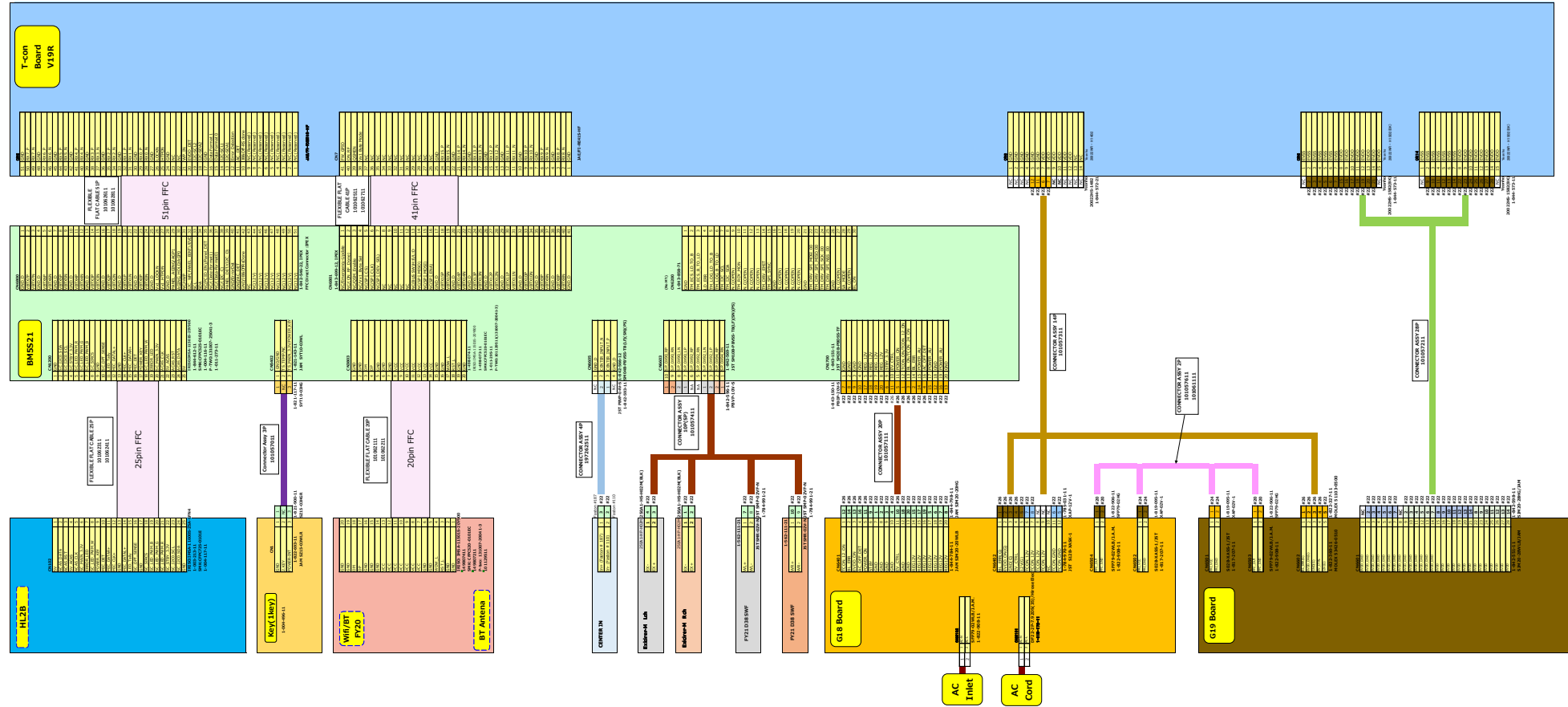
# DIAGRAM

## Connecting Diagram: XR-77A80\*L



# DIAGRAM

## Connecting Diagram: XR-83A80\*L









## HANDLING GUIDE

### Take out from P-mod packing

Hold top and bottom center.

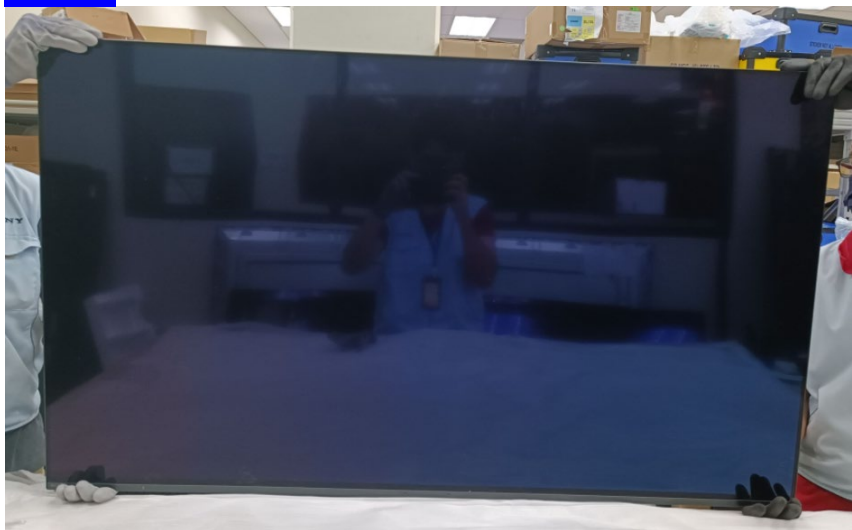
Holding positions are as follow



# HANDLING GUIDE

## Holding Position

**OK**



Be sure to wear gloves and work with two people

**OK**



**OK**



**NG**

**DO NOT** catch frame by finger



**NG**

**DO NOT** push display by finger



**NG**

**DO NOT** push display by finger



**NG**

**DO NOT** grab four corner

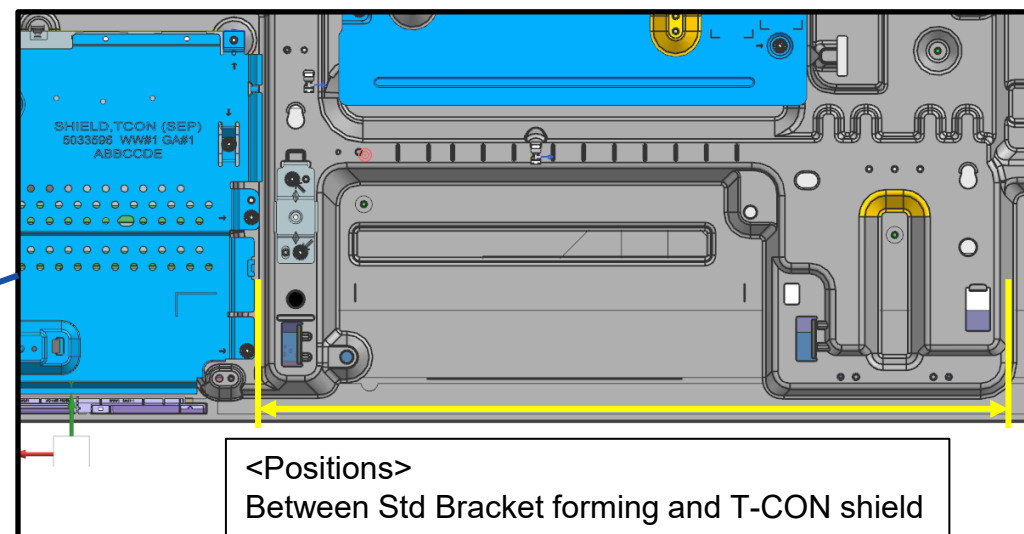
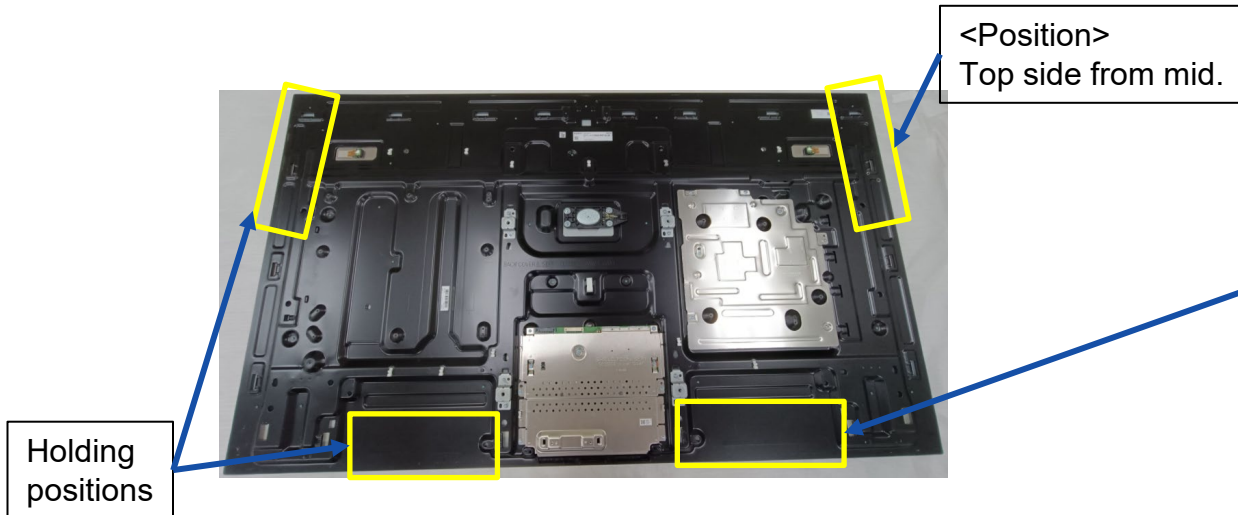
# HANDLING GUIDE

## Moving panel vertical position (OK)



Hold top and bottom center.  
Holding positions are as follow

### Holding positions



## HANDLING GUIDE

### Moving panel vertical position (NG)

Don't allow to carry panel on face down condition.



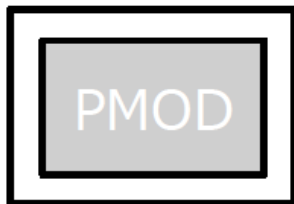
# HANDLING GUIDE

## Resting Condition



Resting P-mod by 2 persons

Table

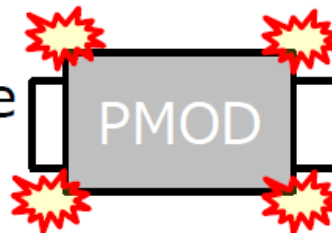


Panel can be fully supported by table surface



Resting P-mod by 1 person

Table



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

## HANDLING GUIDE

### Restricted Area



Avoid touch Rear Cover hook during P-mod handling



Touch on Rear Cover hemming





# ***SERVICE MANUAL (DISASSEMBLY)***

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**ORIGINAL MANUAL ISSUE DATE: 2023.11**

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The manual is intended for a trained professional and the use of the manual is at your own risk.

9-888-906-U1

**OLED TV**

**SONY®**

Sony EMCS (Malaysia) Sdn. Bhd. HES-M  
© 2023.11

## MODEL LISTS

Model	Remote	Destination
XR-55A80K	RMF-TX800U	UCM
XR-55A80CK	RMF-TX900U	UC2
XR-55A80L	RMF-TX810U	UCM
XR-55A80CL	RMF-TX910U	UC2
XR-55A75L	RMF-TX810U	UC2
XR-65A80K	RMF-TX800U	UCM
XR-65A80CK	RMF-TX900U	UC2
XR-65A80L	RMF-TX810U	UCM
XR-65A80CL	RMF-TX910U	UC2
XR-65A75L	RMF-TX810U	UC2
XR-77A80K	RMF-TX800U	UCM
XR-77A80CK	RMF-TX900U	UC2
XR-77A80L	RMF-TX810U	UCM
XR-77A80CL	RMF-TX910U	UC2
XR-83A80L	RMF-TX810U	UCM
XR-83A80CL	RMF-TX910U	UC2

**Self Diagnosis**  
Supported model

RMF-TX800U



RMF-TX900U



RMF-TX810U



RMF-TX910U



## TABLE OF CONTENTS

**Self Diagnosis**  
Supported model

Title	Page
<b>TOOLS &amp; EQUIPMENTS</b>	4
<b>FFC PRECAUTIONS</b>	5
<b>SECTION 1 : XR-55A80* / XR-55A75L</b>	
1-1 DISASSEMBLY AND REMOVAL CAUTION	7
1-2 BOARD LOCATION	13
1-3 WIRE DRESSING	14
1-4 EXPLODED VIEW AND PART LIST	24
<b>SECTION 2 : XR-65A80* / XR-65A75L</b>	
2-1 DISASSEMBLY AND REMOVAL CAUTION	30
2-2 BOARD LOCATION	36
2-3 WIRE DRESSING	37
2-4 EXPLODED VIEW AND PART LIST	46
<b>SECTION 3 : XR-77A80*</b>	
3-1 DISASSEMBLY AND REMOVAL CAUTION	52
3-2 BOARD LOCATION	58
3-3 WIRE DRESSING	59
3-4 EXPLODED VIEW AND PART LIST	65
<b>SECTION 4 : XR-83A80*</b>	
4-1 DISASSEMBLY AND REMOVAL CAUTION	70
4-2 BOARD LOCATION	73
4-3 WIRE DRESSING	74
4-4 EXPLODED VIEW AND PART LIST	85

### SMART CORE

DISASSEMBLY AND REMOVAL CAUTION	91
EXPLODED VIEW AND PART LIST	92

### APPENDIX

SHARP EDGE	94
FFC REPLACEMENT CAUTIONS	95

Please refer Service Manual (Troubleshooting) for below information:

- General Safety Notes
- Self Diagnosis Function
- Triage Chart
- Troubleshooting, Troubleshooting reference
- Software Update & Reset
- Diagram: Connector Diagram
- Handling Guide

**Note: Pictures provided in this manual may have difference from actual sets**

## TOOLS & EQUIPMENTS

### 1 LIST OF ITEMS TO PREPARE

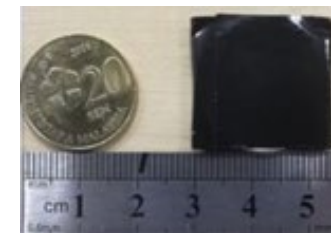
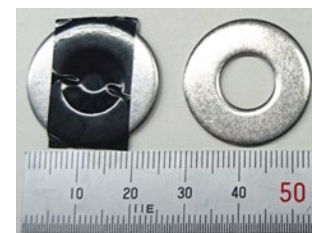
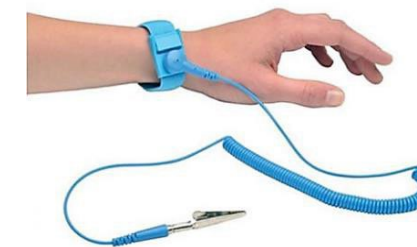
- i. Screwdriver (e.g., #2 Phillips Screwdriver)
- ii. Multimeter
- iii. ESD Wrist Straps
- iv. Metal Washer (Flat) or Coin (for remove Rear Cover)
- v. Ruler (for remove Rear Cover)
- vi. Service Manual (Disassembly) (for remove & replace details)

### 2 OPTIONAL EQUIPMENTS

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

### 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.



Thickness: approx. 1.5mm  
Diameter: 20~25mm  
(wrap in tape (L=50mm))



Plastic or Metal Ruler  
(In case of Metal ruler, wrap in tape (L=50mm) for prevent scratches)



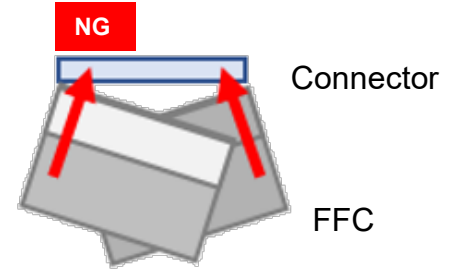
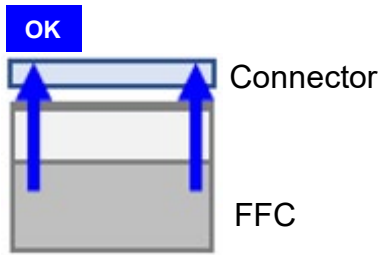
# FFC PRECAUTIONS

## 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

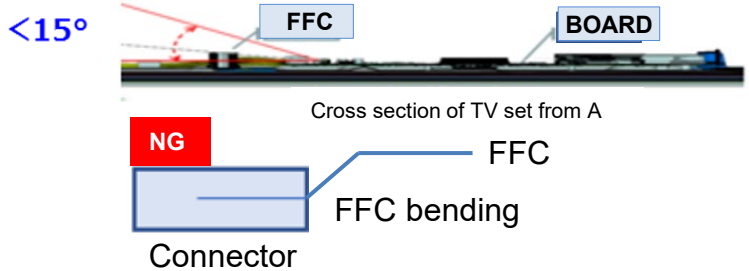
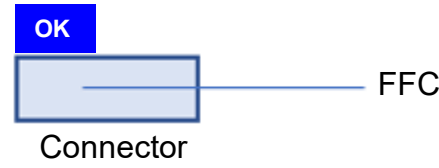
### STRAIGHT INSERT



INSERT FFC IN STRAIGHT CONDITION

DO NOT INSERT FFC IN SLANTING CONDITION

### INSERT ANGLE

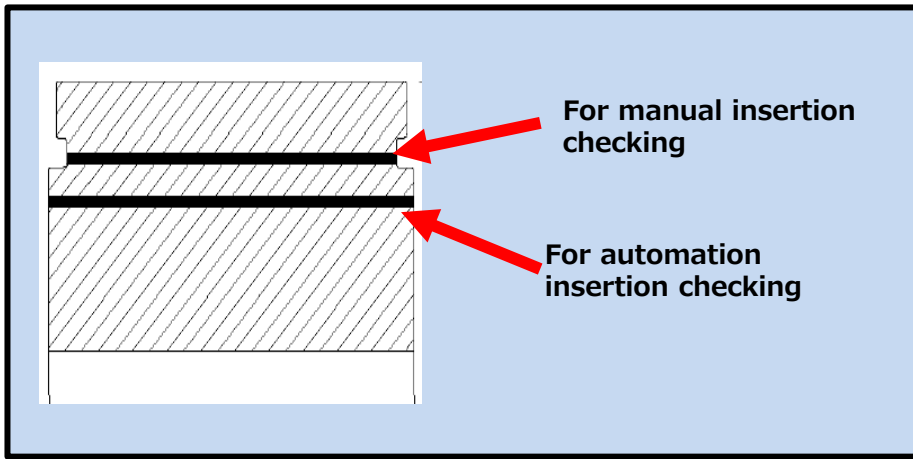


DO NOT APPLY EXCESSIVE FORCE DURING INSERTION

### RECOMMENDED FFC HOLDING METHOD MATRIX

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

### INDICATION FOR FFC FULL INSERTION

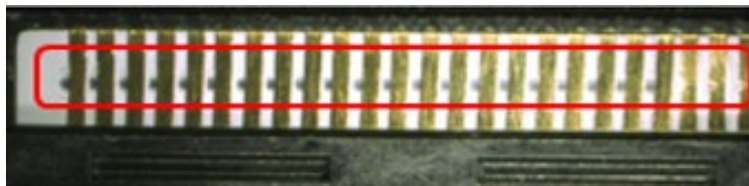
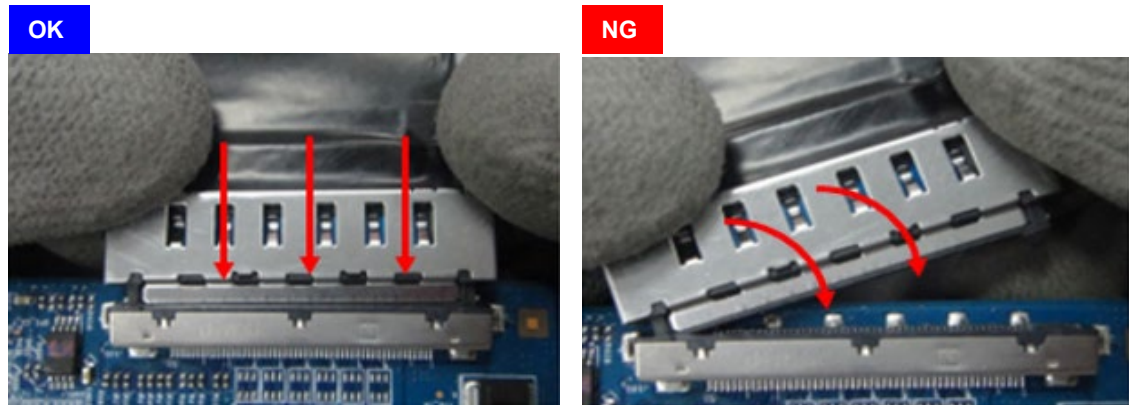


# FFC PRECAUTIONS

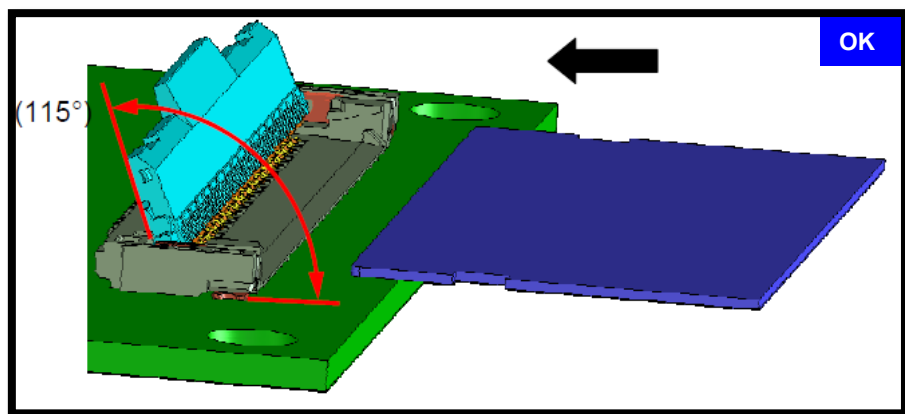
## Caution for FFC with Housing Connector

CAUTION FOR FFC WITH CONNECTOR INSTALLATION AT PANEL SIDE

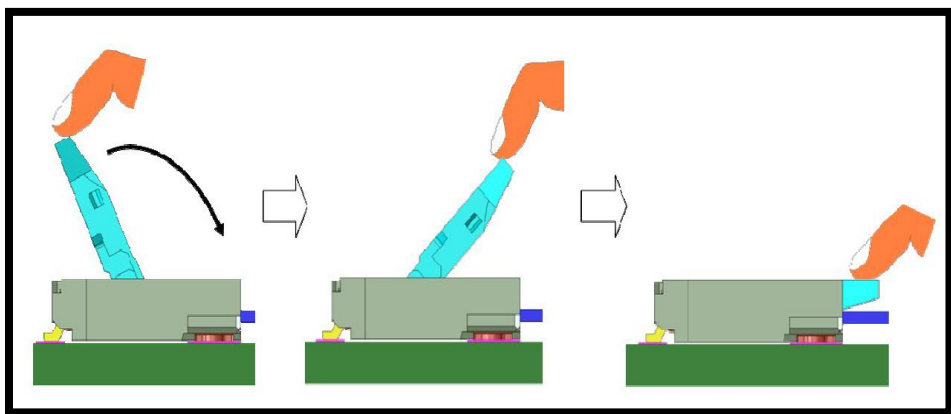
ABNORMAL HANDLING WILL CAUSE CONTACT SHIFTED & FOREIGN PARTICLES ISSUE AS PICTURE BELOW:



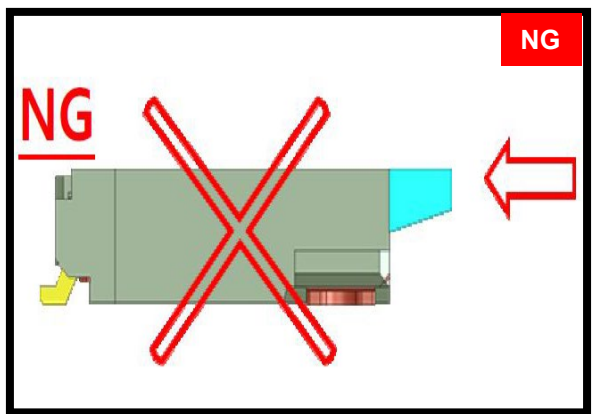
## ZIFF FFC Insertion Caution



Pull up to open actuator.



Close actuator securely to lock  
Make sure line indication on FFC is align with actuator.



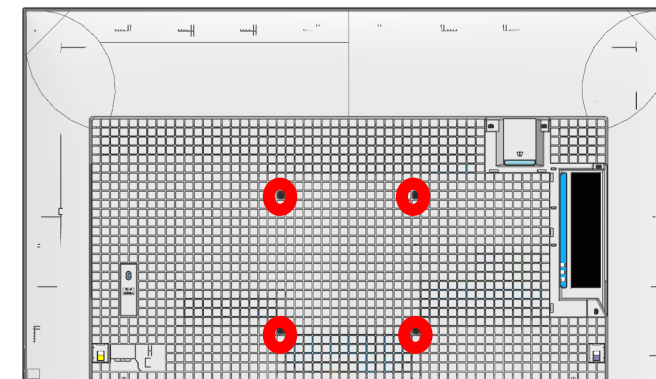
Do not push inwards with excessive force.

## SECTION 1: XR-55A80\* / XR-55A75L

### 1-1. DISASSEMBLY AND REMOVAL CAUTION

#### REAR COVER

1. Remove the screws from the rear cover (4 pcs)

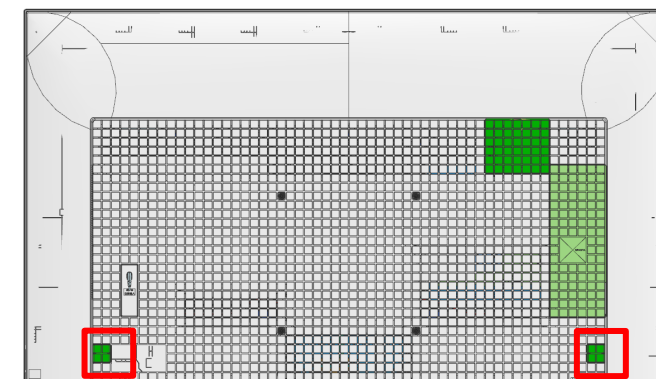
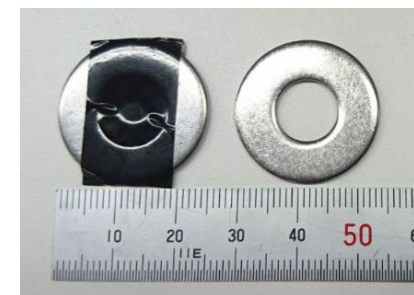


2. Remove the bottom cover in red box.

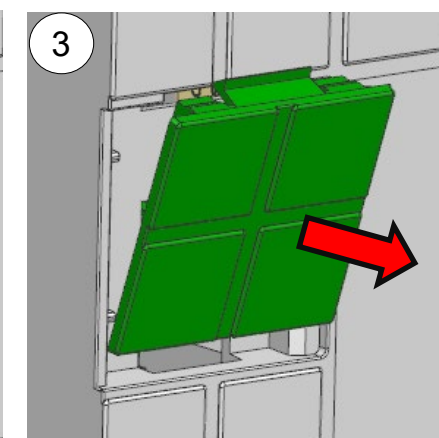
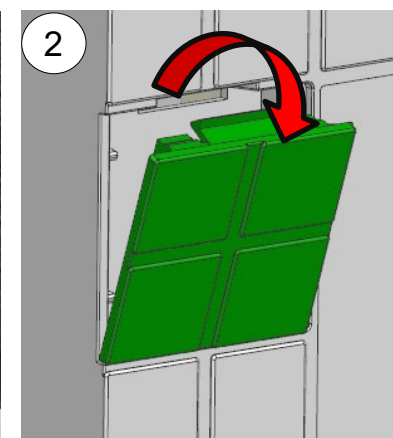
Washer or coin to unhook Cover Hook

\*Wrap washer in VA tape (15mm X 55mm)

\*Thickness approximately 1.5mm



- ① Put washer or coin in the slit of cover hook.
- ② Turn washer or coin to the direction of the arrow.
- ③ Remove cover hook.






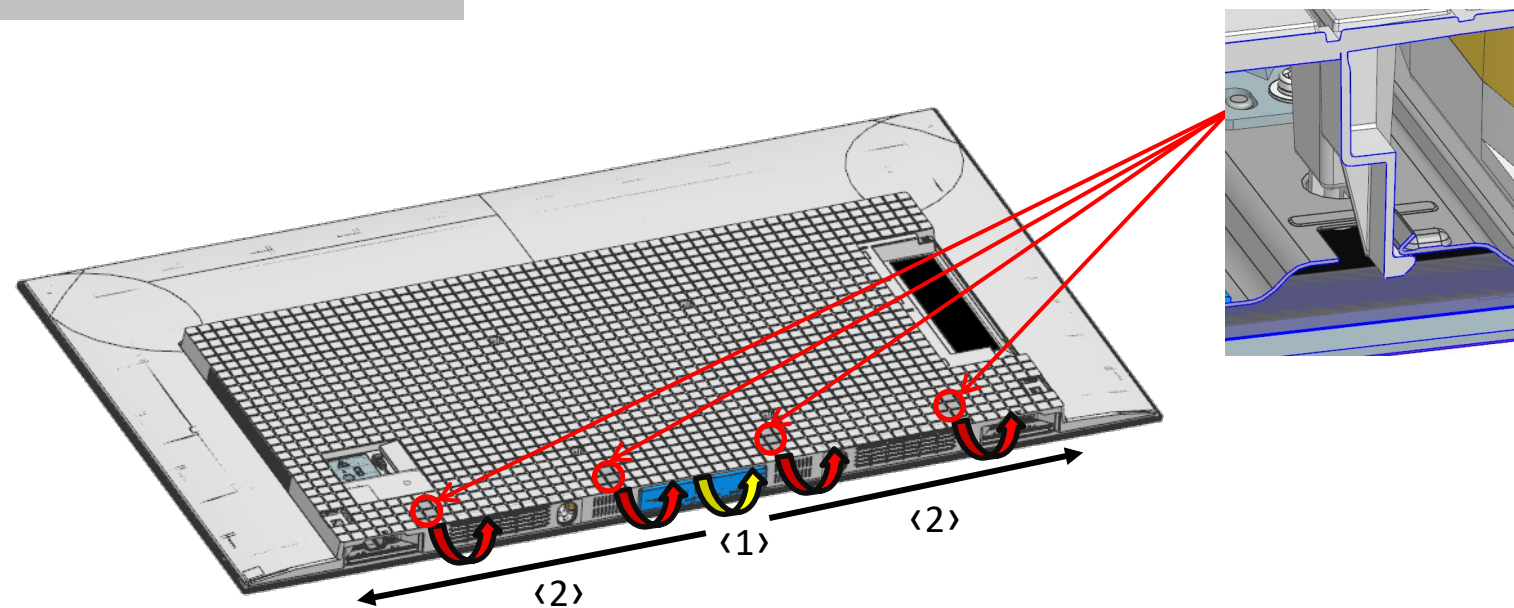
# SECTION 1: XR-55A80\* / XR-55A75L

## 1-1. DISASSEMBLY AND REMOVAL CAUTION

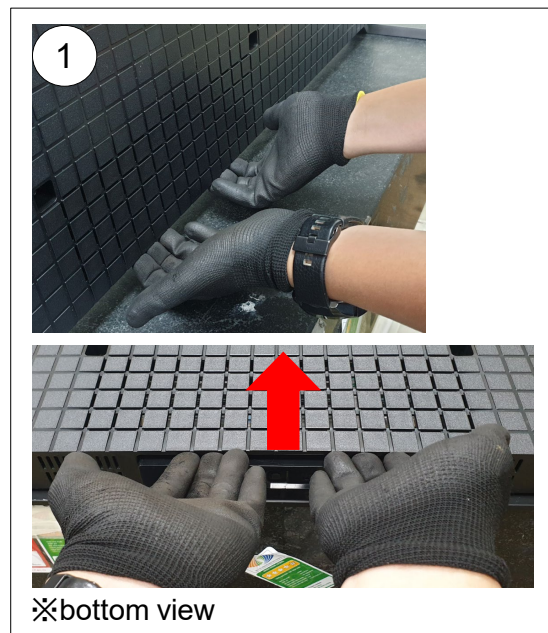
### REAR COVER

3. Unhook the bottom hook, starting from center.(4 hooks)

Legend  
 =bottom hook



- ① Pull rear cover bottom center until hook release sound is heard.
- ② Pull rear cover towards outside direction until hook release sound is heard.



## SECTION 1: XR-55A80\* / XR-55A75L

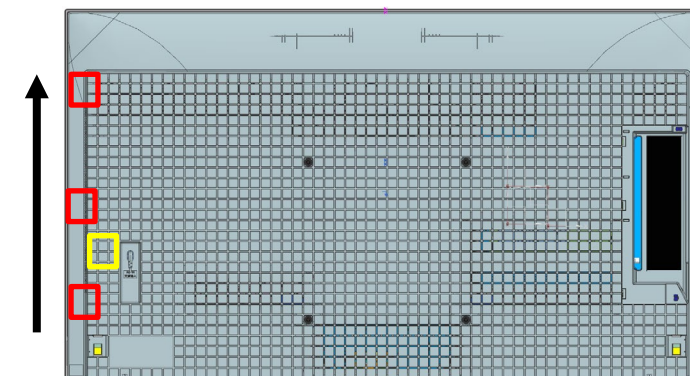
### 1-1. DISASSEMBLY AND REMOVAL CAUTION

#### REAR COVER

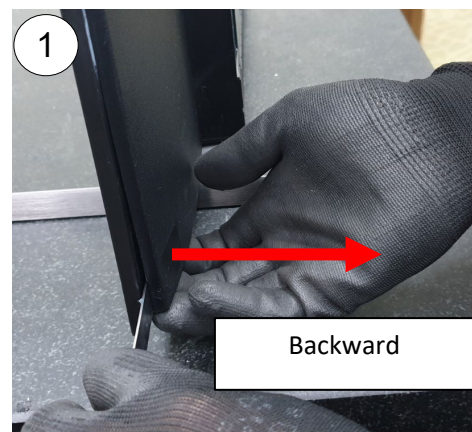
4. Unhook the left side hooks. (3 hooks)

Legend

- =outline hook
- =AC tml Hook (1 hook)



- ① When releasing hook, pull the rear cover corner and insert jig
- ② Flex the rear cover outwards to release outline hook
- ③ Pull rear cover below the AC tml to release the AC tml hook



Ruler or jig to release corner hook  
 \*Wrap ruler with tape to prevent scratch





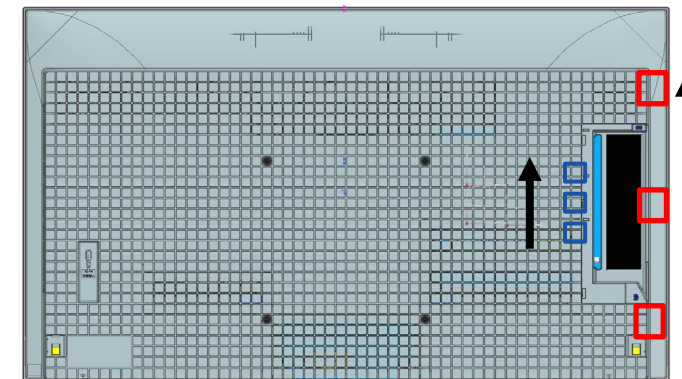
## SECTION 1: XR-55A80\* / XR-55A75L

### 1-1. DISASSEMBLY AND REMOVAL CAUTION

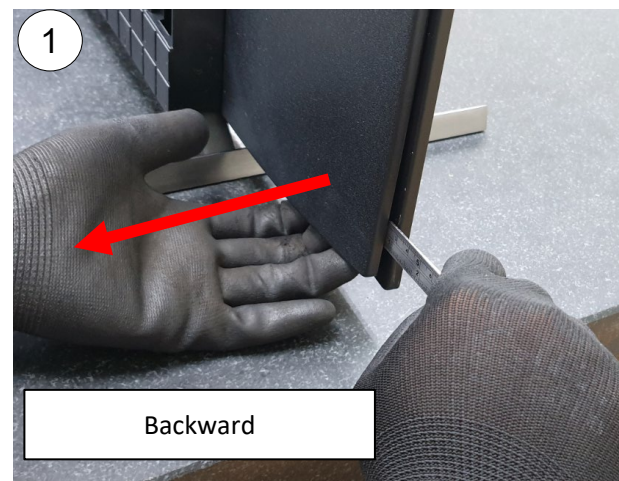
#### REAR COVER

5. Unhook the right-side hooks. (3 hooks)

Legend	
	=outline hook
	=Side Jack Bottom Hook (3 hooks)



- ① When releasing hook, pull the rear cover and insert jig
- ② Flex the rear cover outwards to release outline hook
- ③ Pull rear cover below the side jack to release the side jack bottom hook.



Ruler or jig to release corner hook  
 \*Wrap ruler with tape to prevent scratch



## SECTION 1: XR-55A80\* / XR-55A75L

### 1-1. DISASSEMBLY AND REMOVAL CAUTION

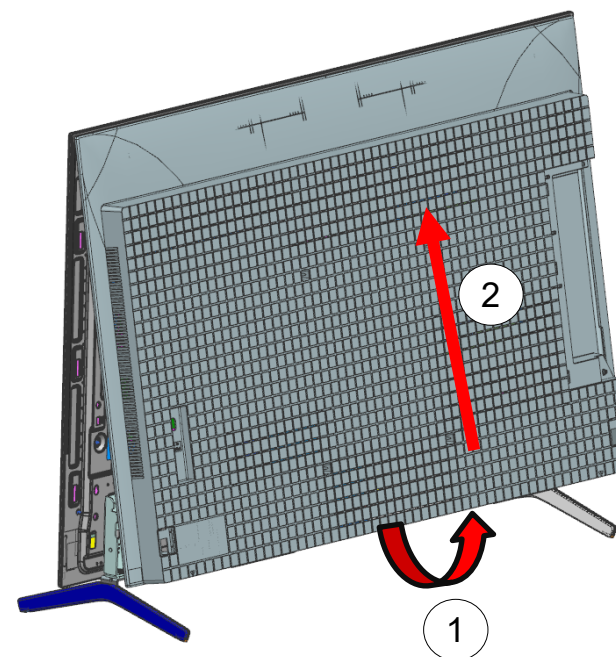
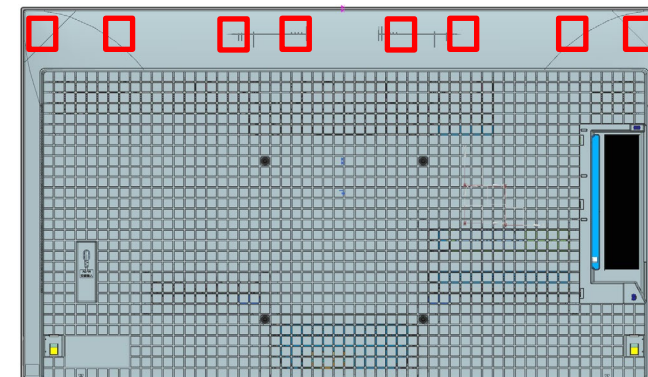
#### REAR COVER

6. Unhook the top row hooks. (8 hooks)

Legend

=outline hook

- ① Tilt the rear cover and push upwards on the left/right side.
- ② Lift the rear cover off from the center

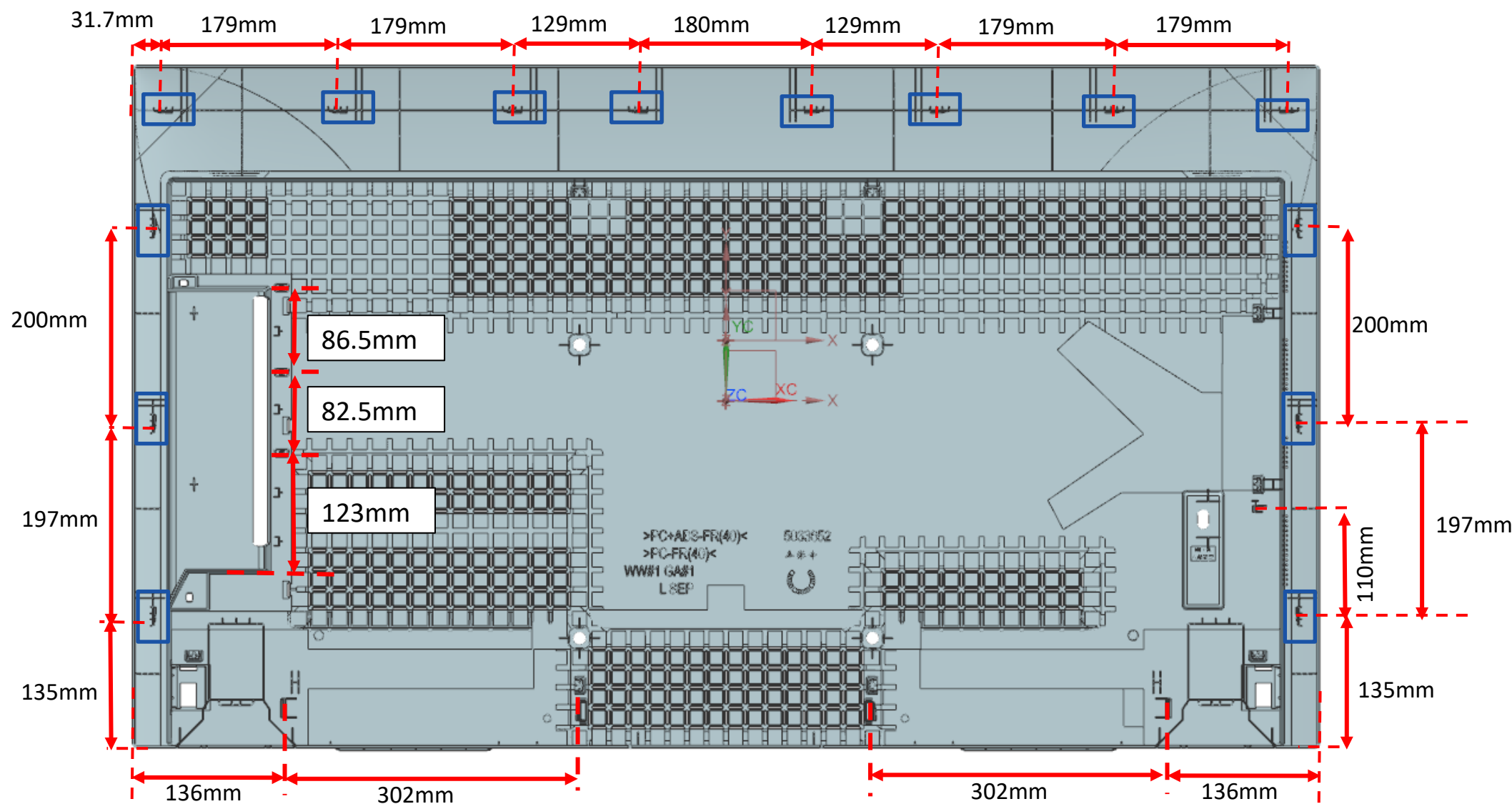


# SECTION 1: XR-55A80\* / XR-55A75L

# 1-1. DISASSEMBLY AND REMOVAL CAUTION

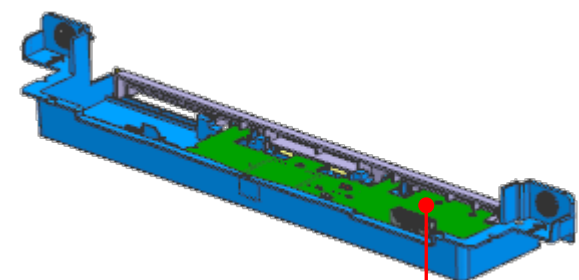
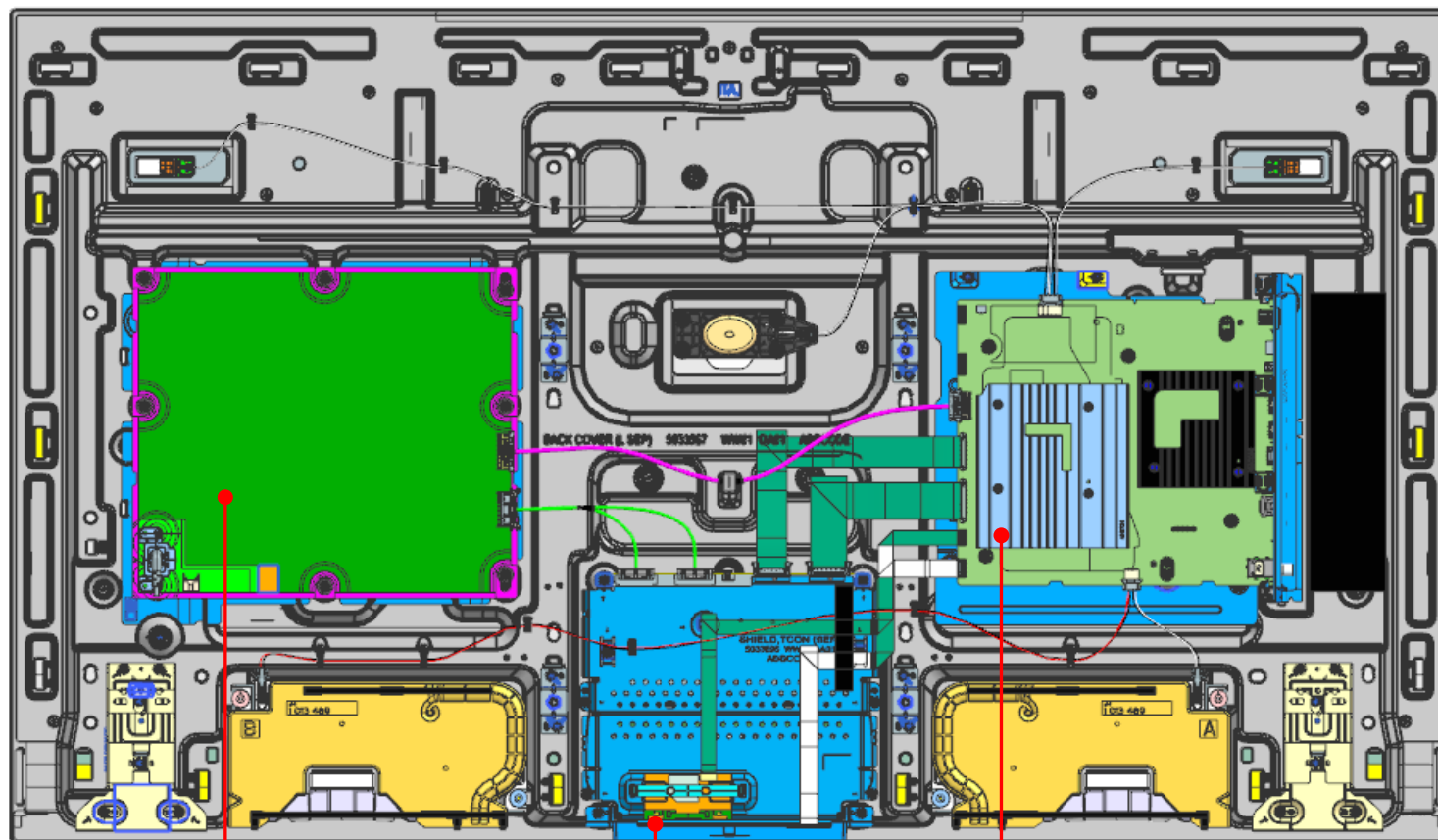
## REAR COVER

Hook positioning.



# SECTION 1: XR-55A80\* / XR-55A75L

## 1-2. BOARD LOCATION



POWER BOARD

WI-FI BOARD

MAIN BOARD

RECEIVER BOARD

## SECTION 1: XR-55A80\* / XR-55A75L

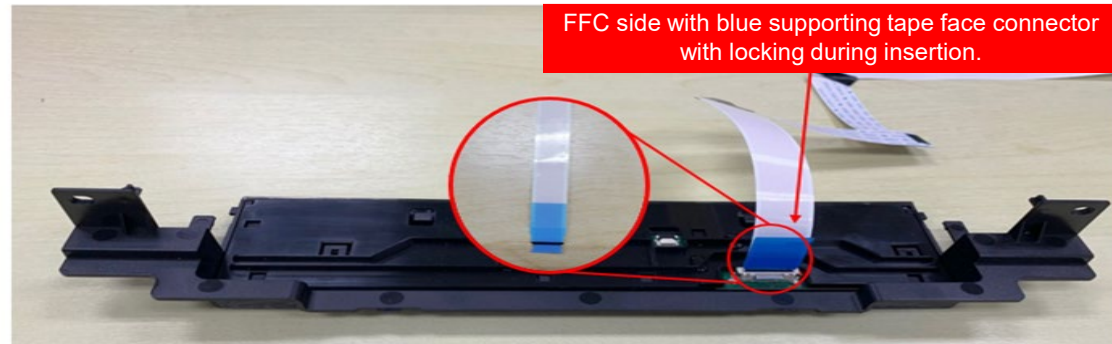
## 1-3. WIRE DRESSING

INFORMATION

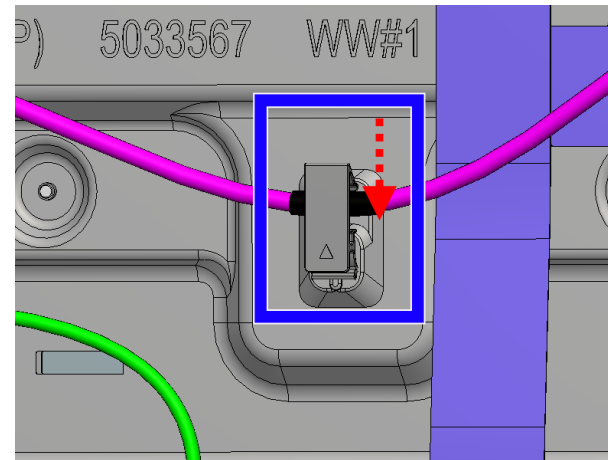
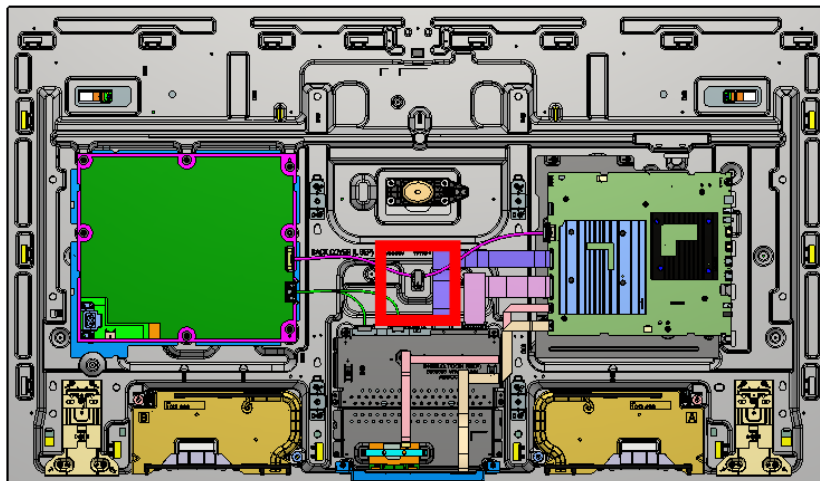
## Caution:

1. Operator need to fix Smart Core on FLAT surface before FFC insertion to ensure FFC STRAIGHT insertion.
2. FFC side with blue supporting tape, must face CONNECTOR WITH LOCKING during FFC insertion.

After assemble Receiver board to Smart Core, operator need to insert Receiver board FFC in straight condition.



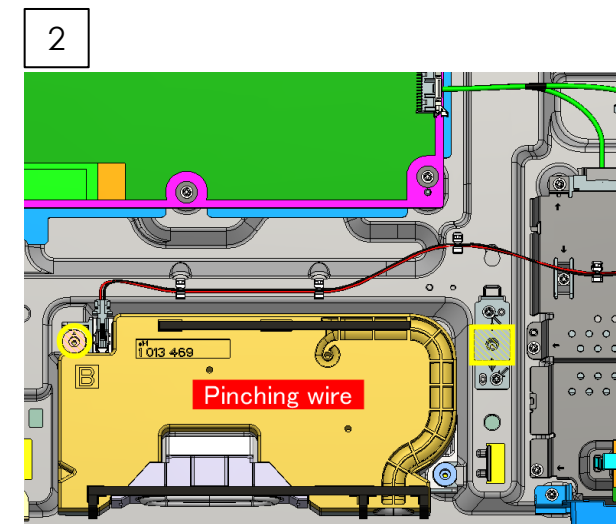
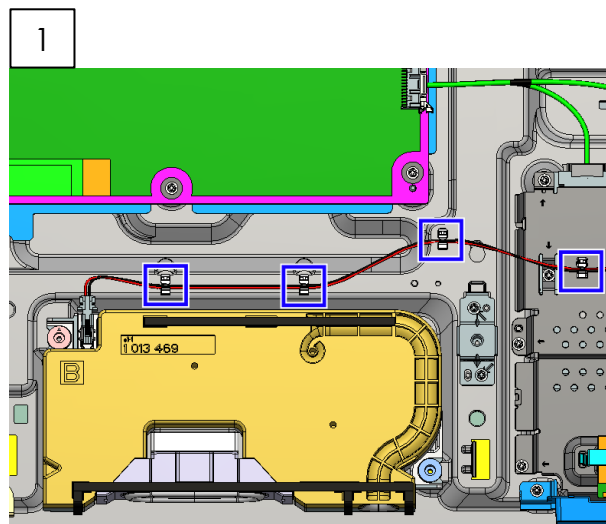
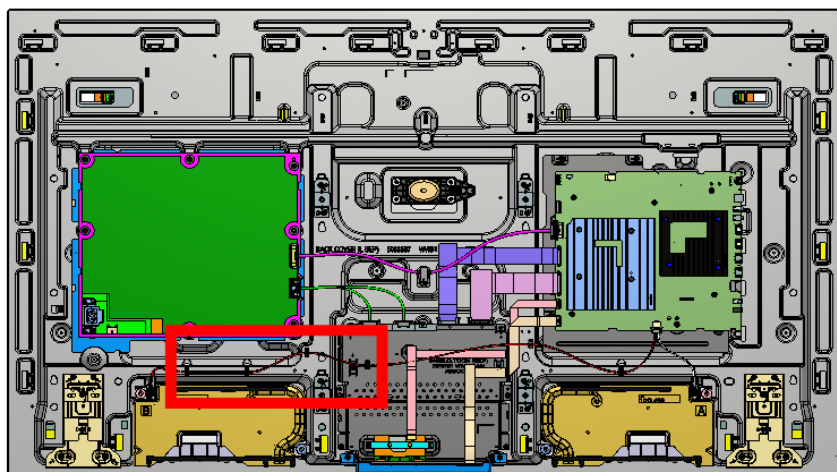
Smart Core is placed on FLAT surface during FFC insertion.

WIRE DRESSING

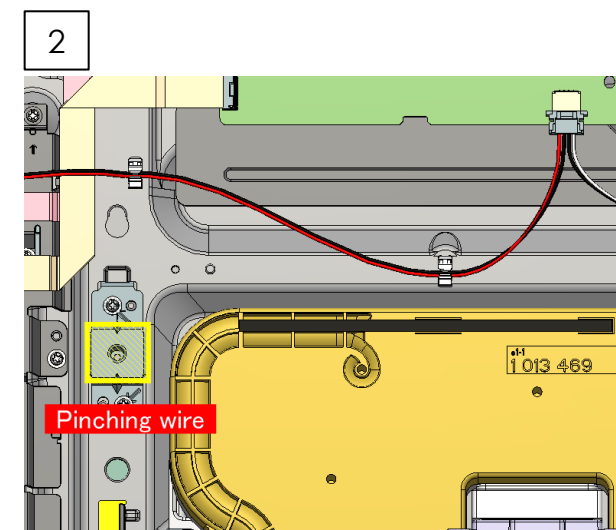
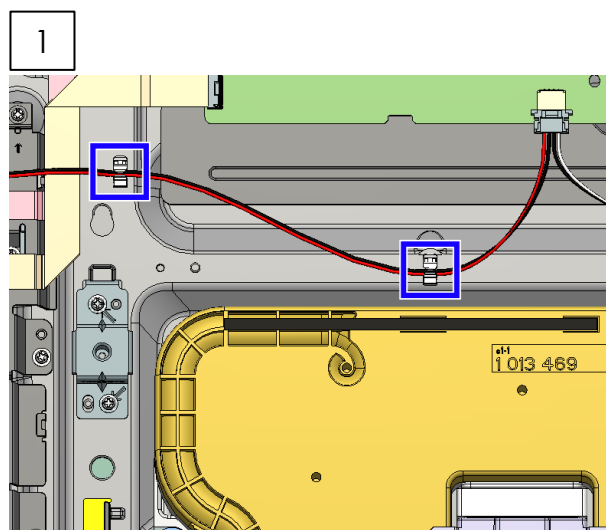
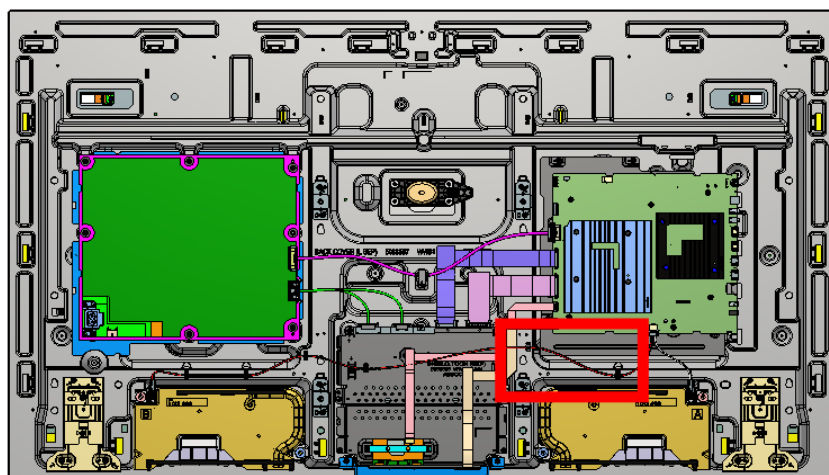
# SECTION 1: XR-55A80\* / XR-55A75L

## 1-3. WIRE DRESSING

### WIRE DRESSING



### WIRE DRESSING

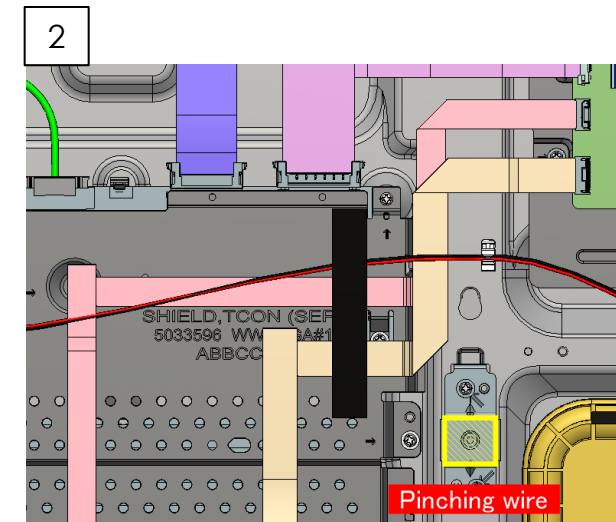
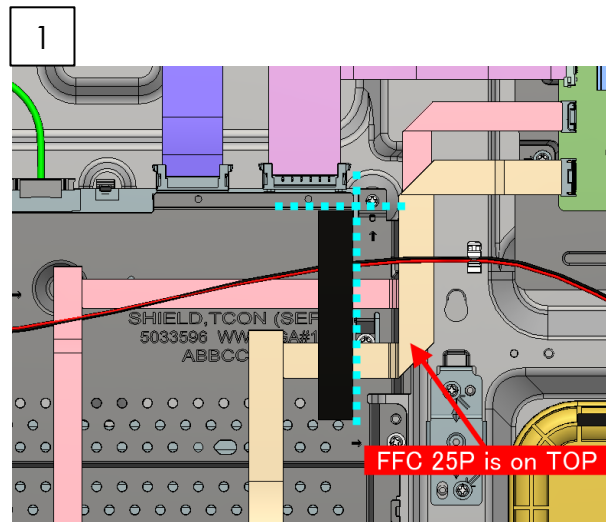
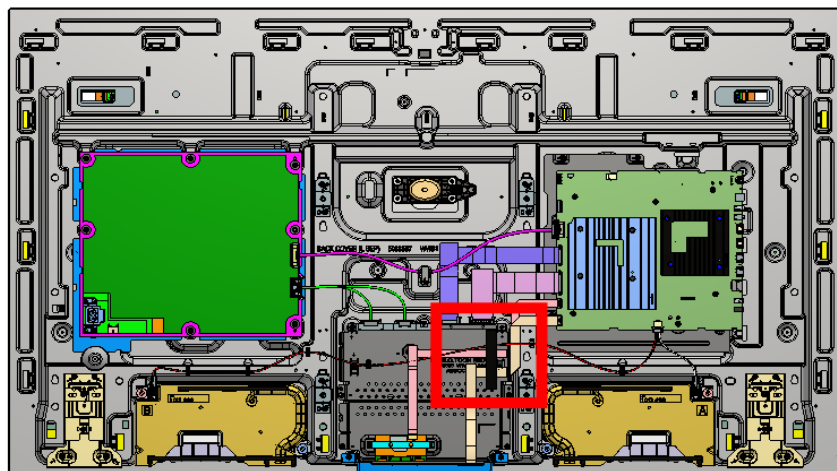




# SECTION 1: XR-55A80\* / XR-55A75L

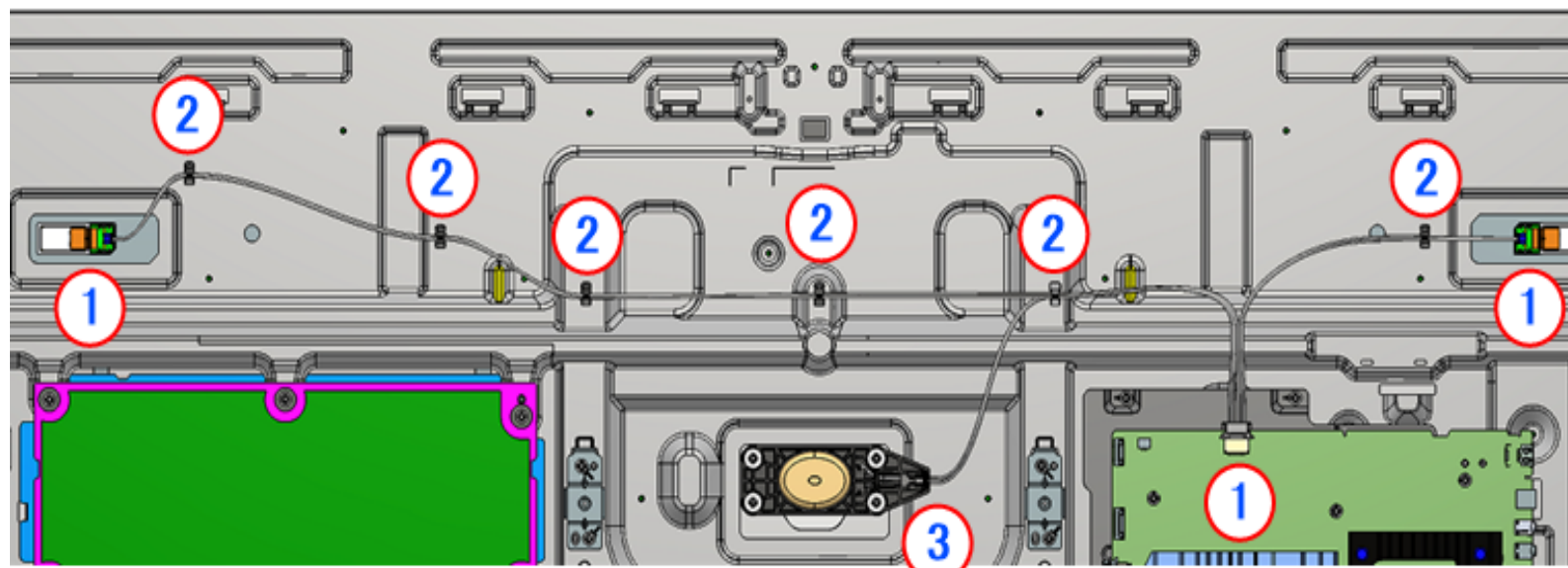
## 1-3. WIRE DRESSING

### TAPE



**SECTION 1: XR-55A80\* / XR-55A75L****1-3. WIRE DRESSING**WIRE DRESSING**<Sequence Information>**

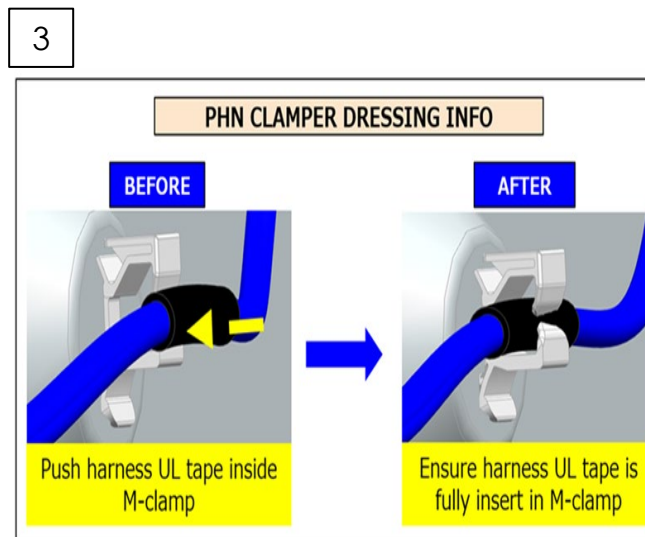
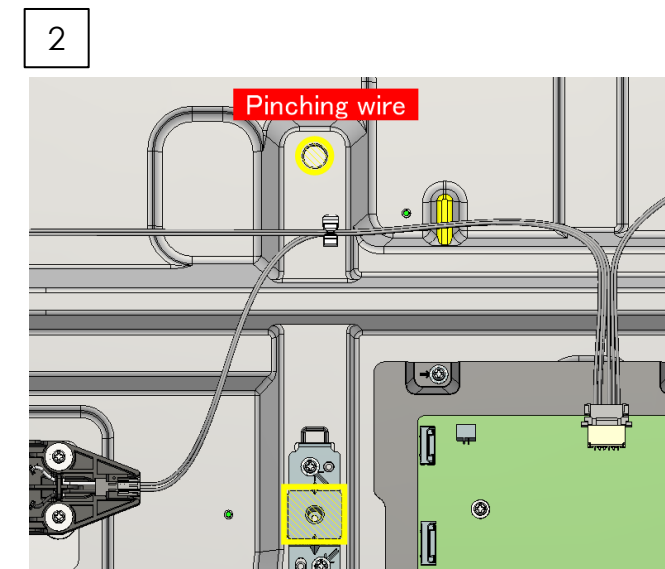
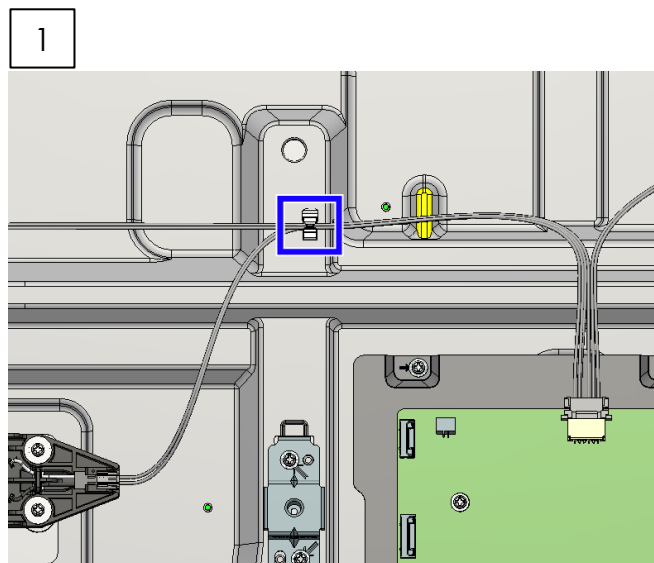
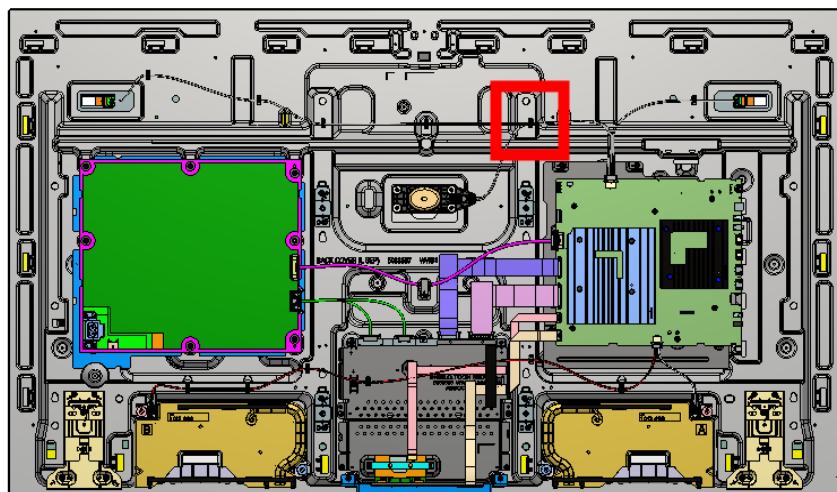
1. Connect harness at Main Board, Piezo L & R.
2. Wire dressing (clammer) for harness.
3. Connect harness at Exciter.



# SECTION 1: XR-55A80\* / XR-55A75L

# 1-3. WIRE DRESSING

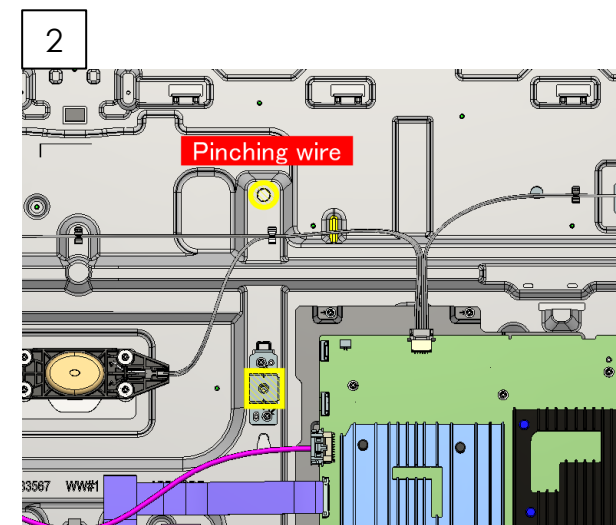
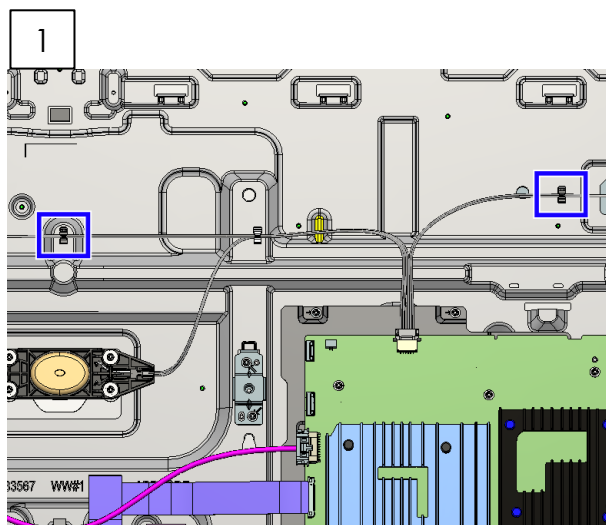
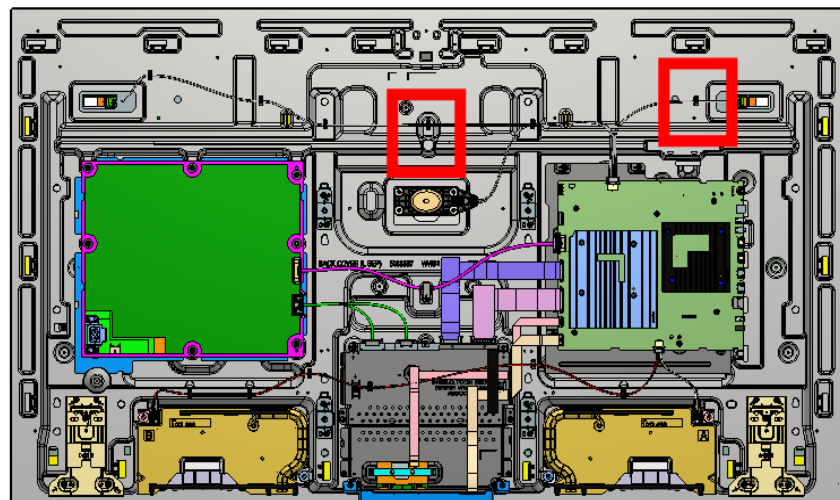
## WIRE DRESSING – 80K / 80CK / 80L / 80CL



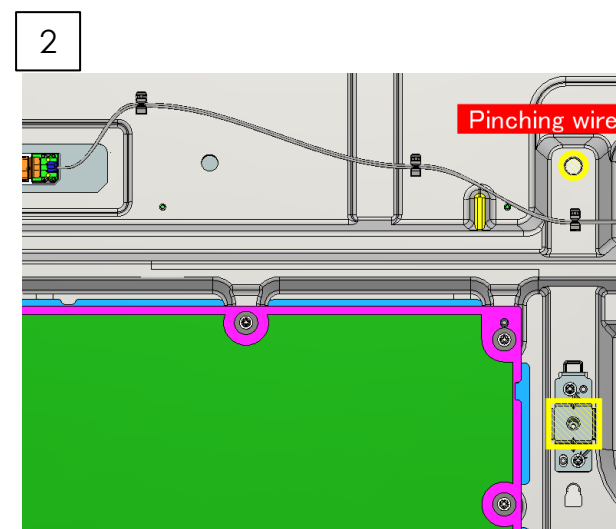
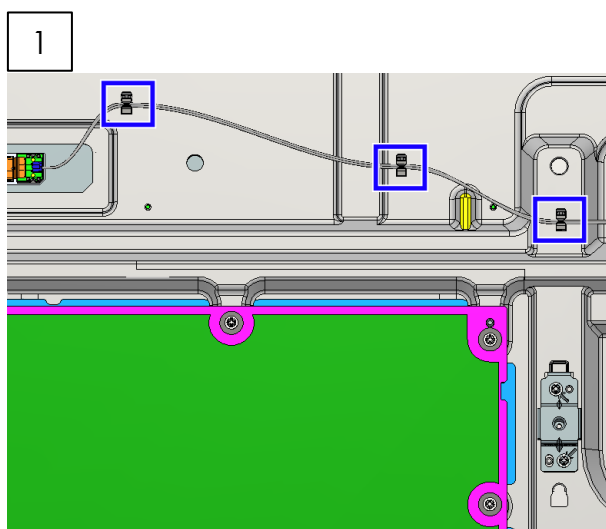
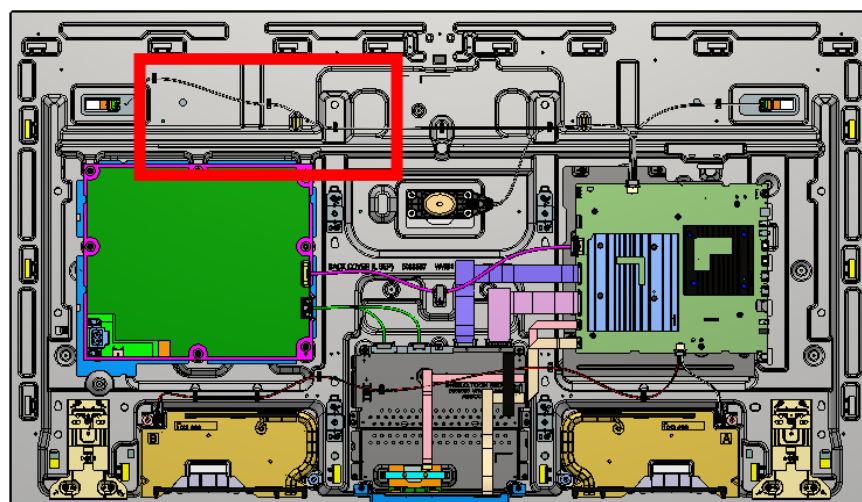
# SECTION 1: XR-55A80\* / XR-55A75L

## 1-3. WIRE DRESSING

### WIRE DRESSING – 80K / 80CK / 80L / 80CL



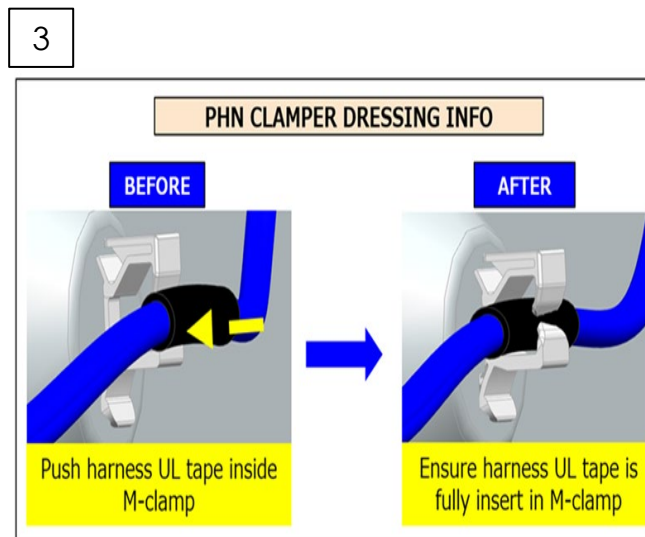
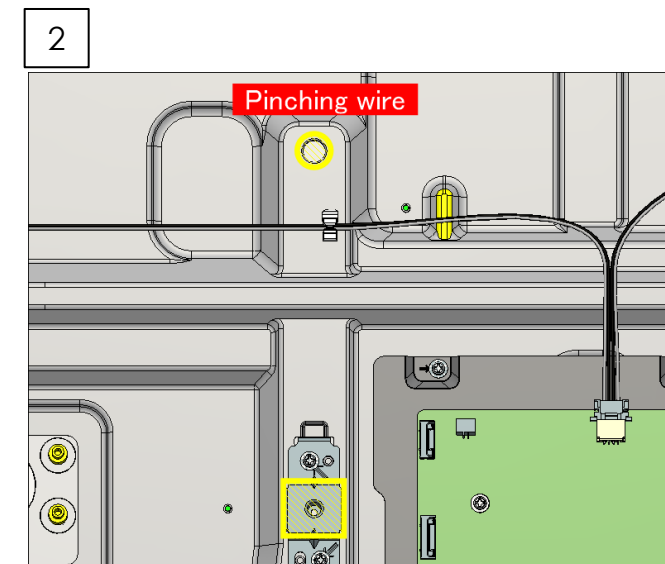
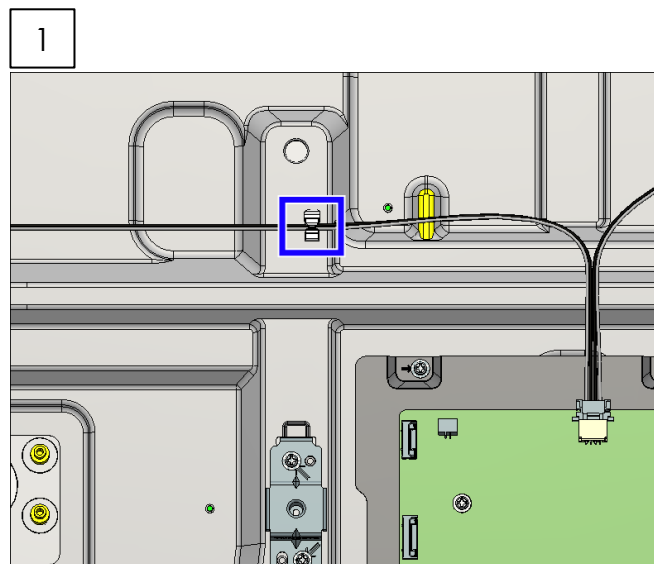
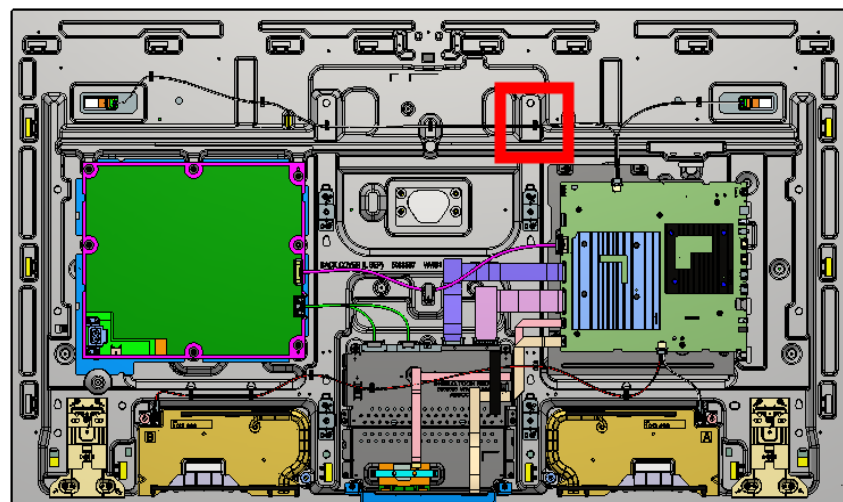
### WIRE DRESSING – 80K / 80CK / 80L / 80CL



# SECTION 1: XR-55A80\* / XR-55A75L

# 1-3. WIRE DRESSING

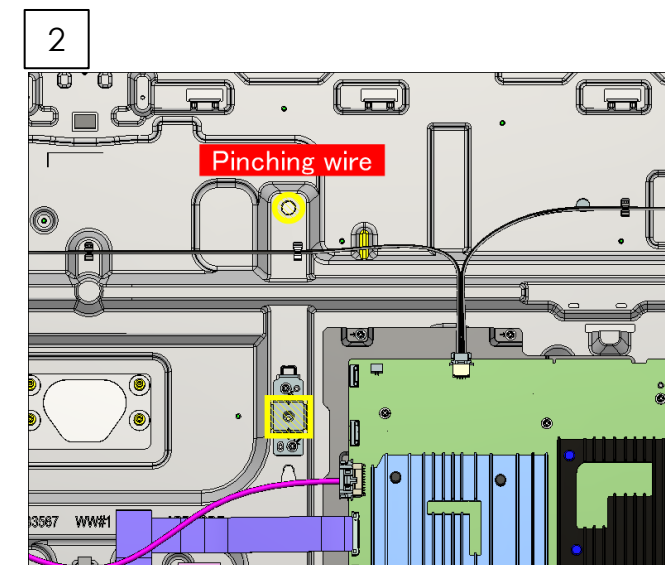
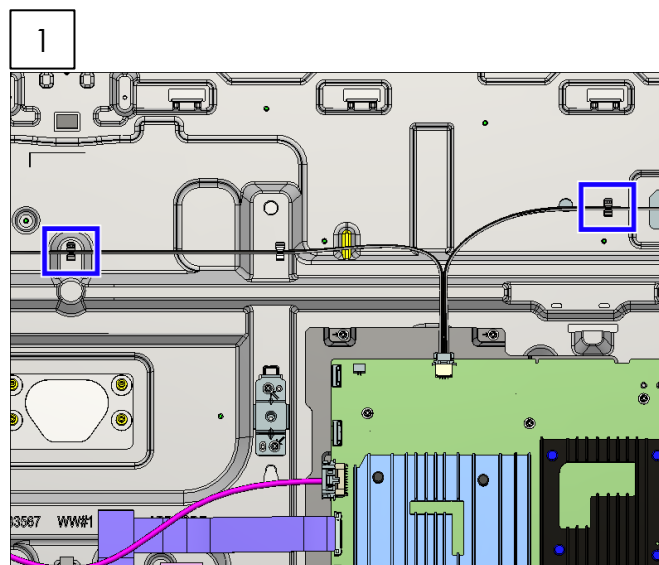
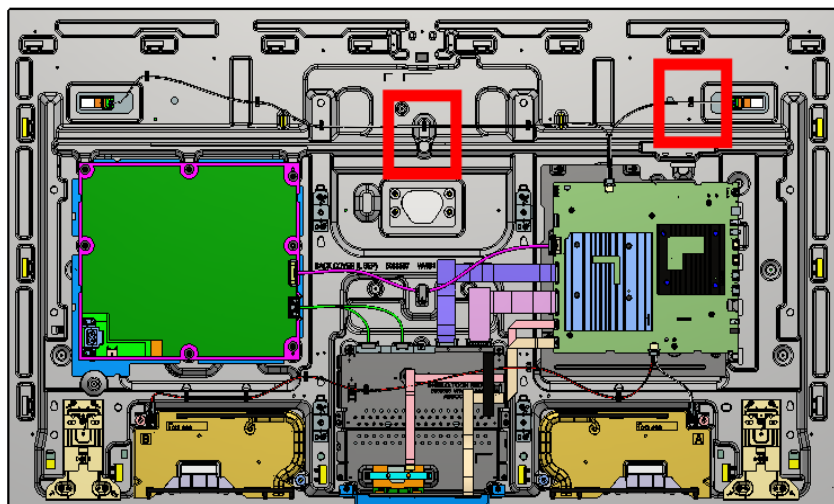
## WIRE DRESSING – 75L



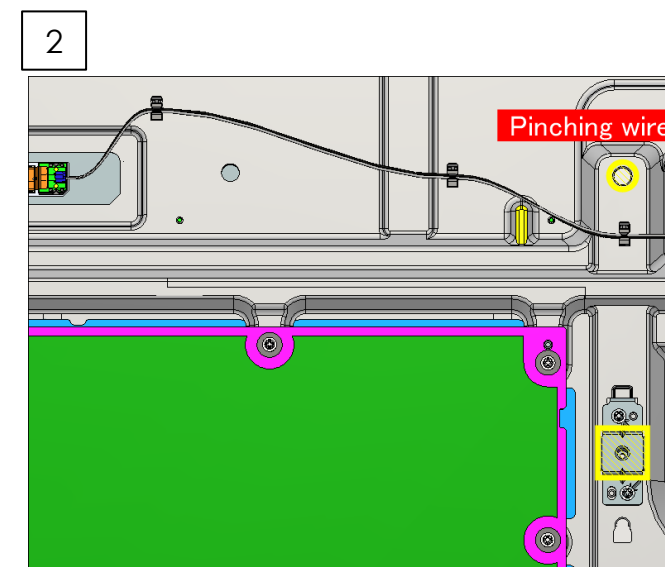
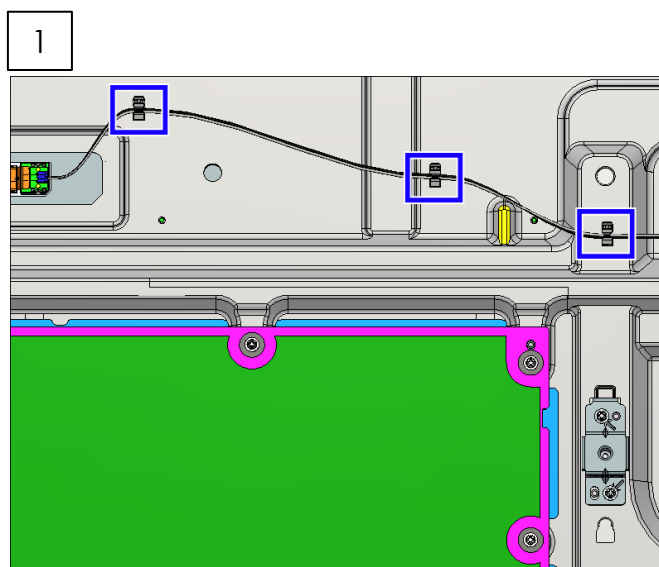
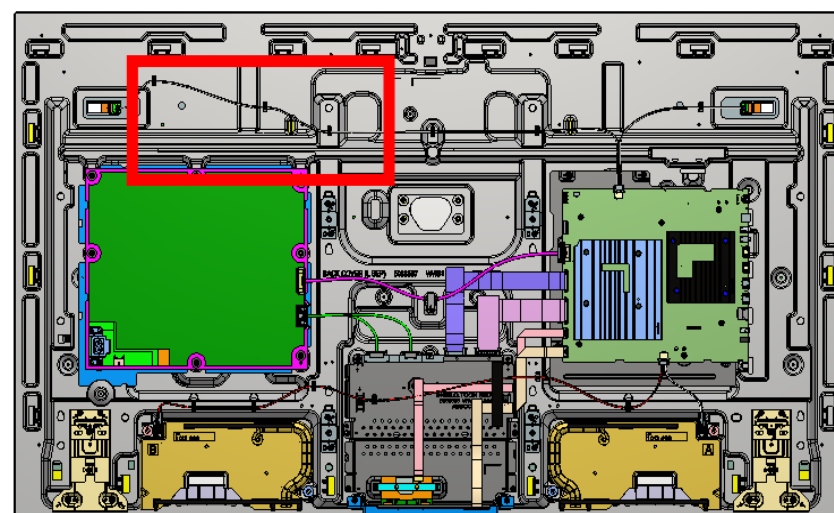
# SECTION 1: XR-55A80\* / XR-55A75L

# 1-3. WIRE DRESSING

## WIRE DRESSING – 75L



## WIRE DRESSING – 75L

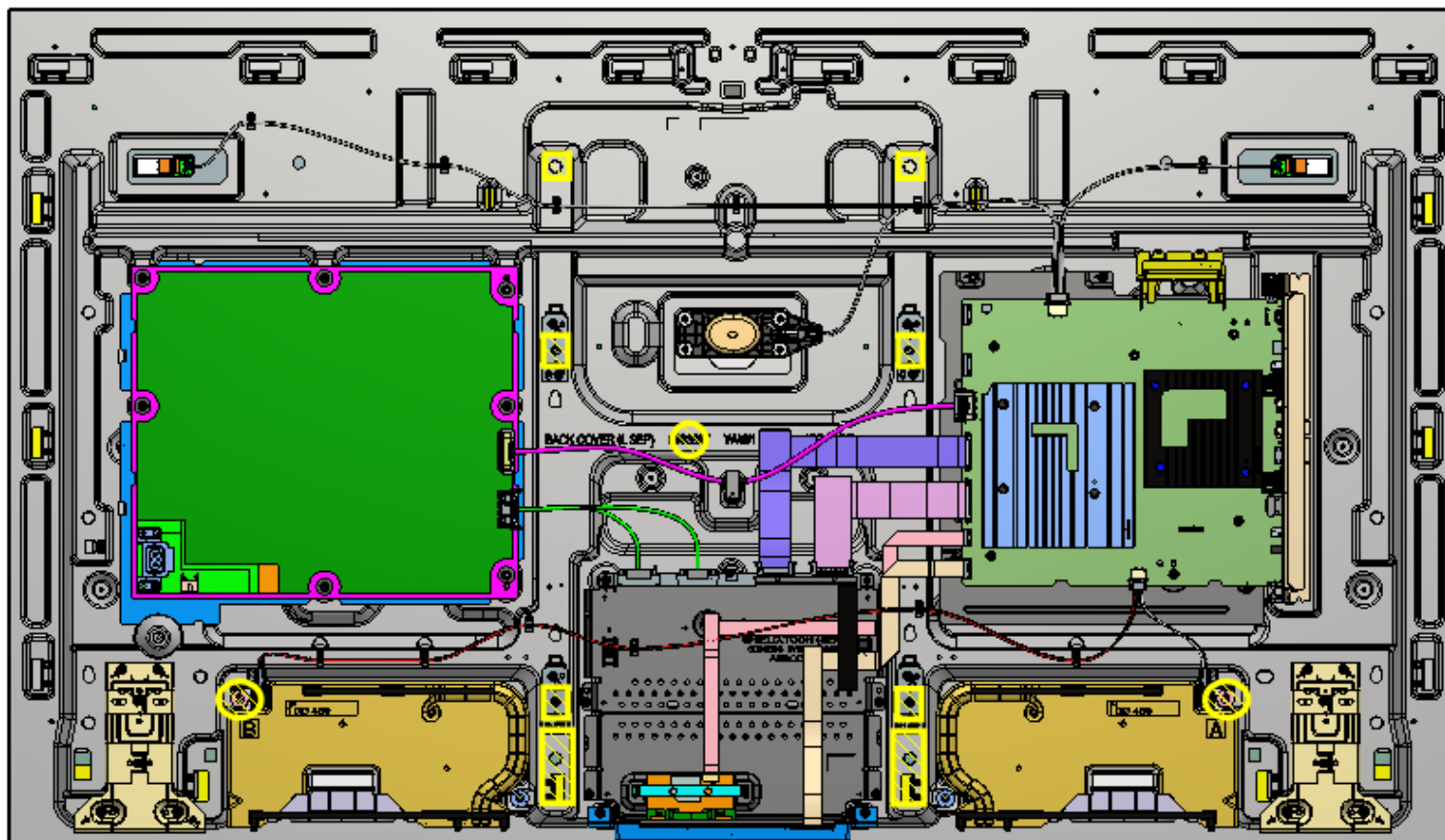


# SECTION 1: XR-55A80\* / XR-55A75L

# 1-3. WIRE DRESSING

INFORMATION – 80K / 80CK / 80L / 80CL

Keep harness away from inhibit area.

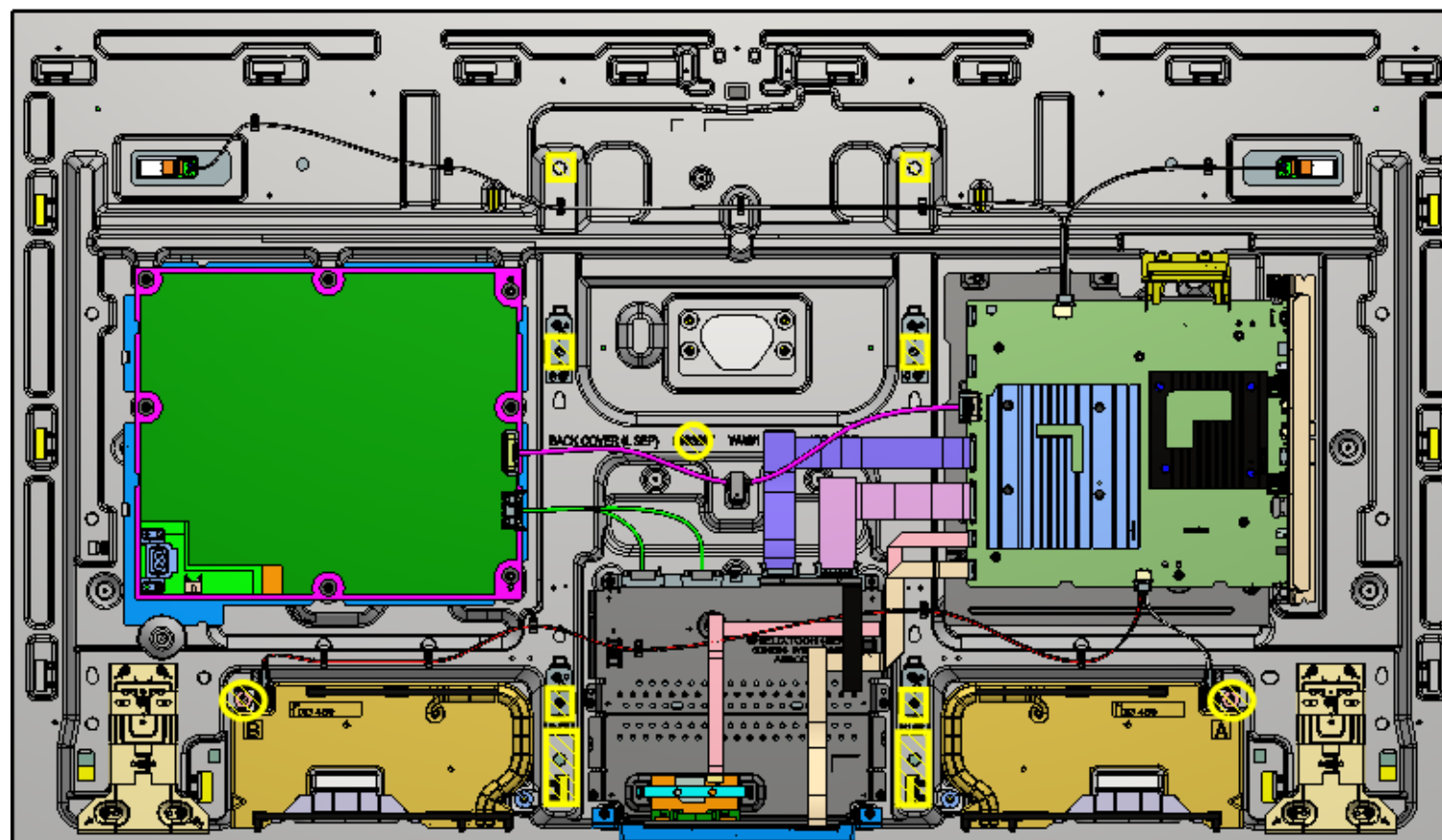


# SECTION 1: XR-55A80\* / XR-55A75L

# 1-3. WIRE DRESSING

INFORMATION – 75L



**Keep harness away from inhibit area.**



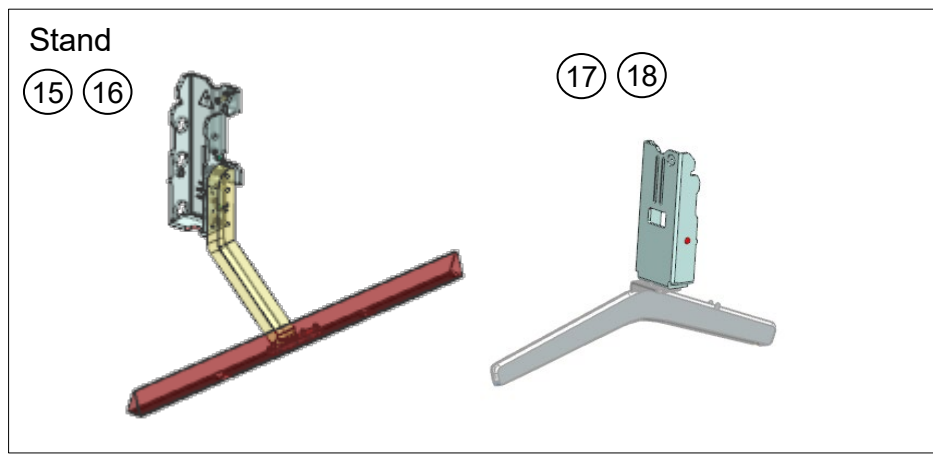
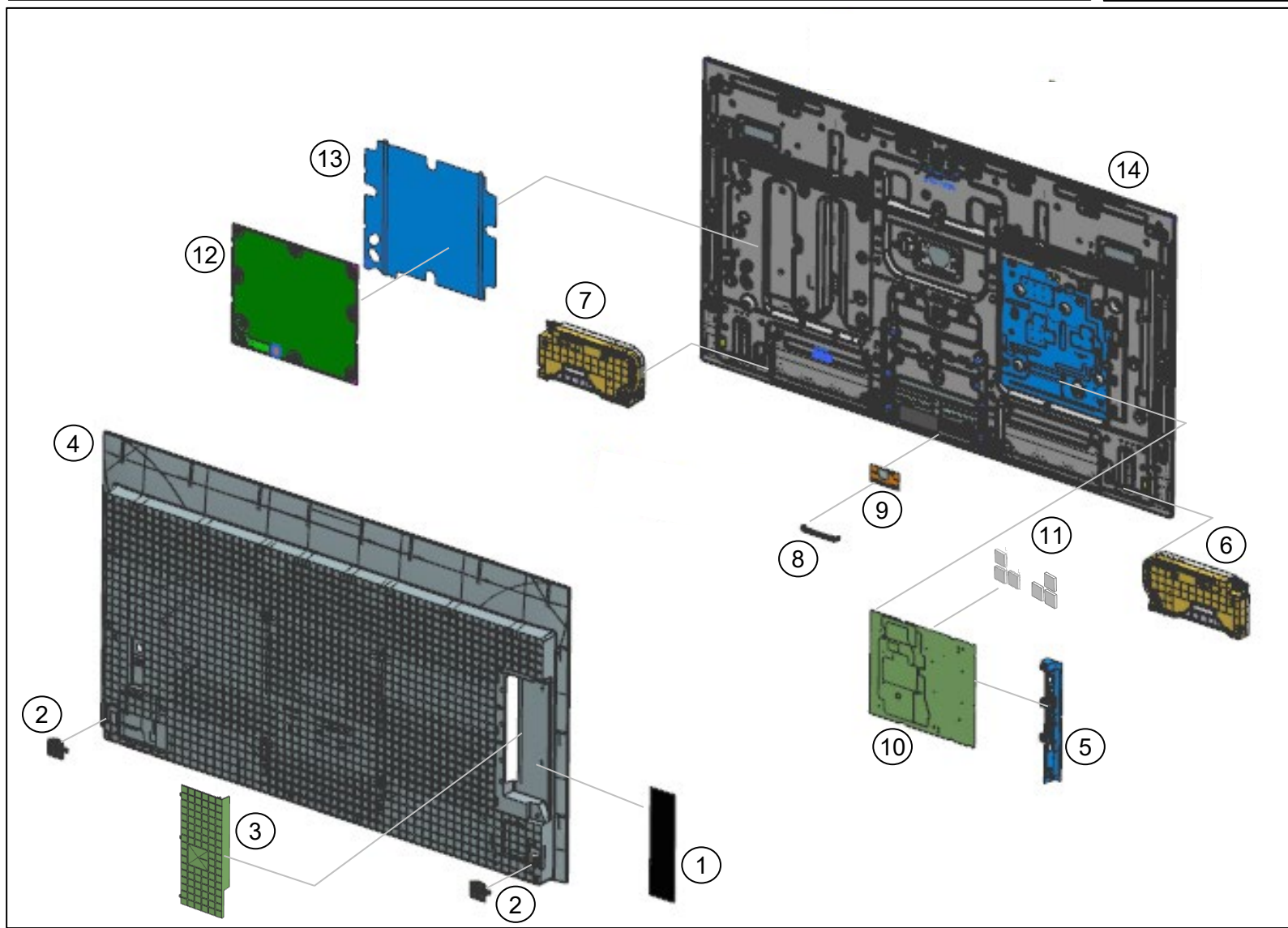


# SECTION 1: XR-55A80\* / XR-55A75L

# 1-4. EXPLODED VIEW AND PART LIST

- 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: XR-55A80\* / XR-55A75L

## 1-4. EXPLODED VIEW AND PART LIST

## SET PART LIST

REF. NO	PART NO.	DESCRIPTION	XR-55A80K	XR-55A80CK	XR-55A80L	XR-55A80CL	XR-55A75L
			UCM	UC2	UCM	UC2	UC2
1	5-039-876-01	LABEL, SIDE TERMINAL HP (TGR)	•	•	n/a	n/a	n/a
2	5-033-671-01	BTM COVER BARE (COM SEP)	•	•	•	•	•
3	5-033-669-01	TERMINAL COVER (COM SEP)	•	•	•	•	•
 4	5-036-202-03	REAR COVER (L SEP) A	•	•	•	•	•
5	5-039-955-11	BRACKET SIDE (BNN) A	•	•	•	•	•
6	1-013-469-11	SP-BOX ASSY,FY22 W40L-A	•	•	n/a	n/a	n/a
6	1-016-024-11	SP-BOX ASSY,FY22 W40L-FA	n/a	n/a	•	•	•
7	1-013-469-21	SP-BOX ASSY,FY22 W40L-B	•	•	n/a	n/a	n/a
7	1-016-024-21	SP-BOX ASSY,FY22 W40L-FB	n/a	n/a	•	•	•
8	5-009-258-22	BRACKET, WIFI(BNN)	•	•	•	•	•
 9	1-005-419-14	WLAN/BT MODULE(11AC)	•	•	•	•	•
 10	A-5042-804-A	COMPL_SVC_BM5STY_UC_FS	•	•	n/a	n/a	n/a
 10	A-5056-923-A	COMPL_SVC_BM5STY_FS2_UCM	n/a	n/a	•	•	n/a
 10	A-5056-949-A	COMPL_SVC_BM5STY_FSL2_UCM	n/a	n/a	n/a	n/a	•
11	4-457-451-12	SHEET, THERMAL (BAF)	•	•	•	•	•
 12	1-013-507-22	G25BP-STATIC CONVERTER (TV)	•	•	n/a	n/a	n/a
 12	1-013-507-41	G25BP-STATIC CONVERTER (TV)	n/a	n/a	•	•	•
 13	5-035-920-11	SHEET, INSULATION (L SEP) A	•	•	•	•	•
 14	A-5044-454-A	P-MOD (YDCM055UNG01)(SVC)	•	n/a	n/a	n/a	n/a
 14	A-5058-099-A	P-MOD (YDCM055UNG01)(SVC)	n/a	n/a	•	n/a	n/a

TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SMART CORE	APPENDIX
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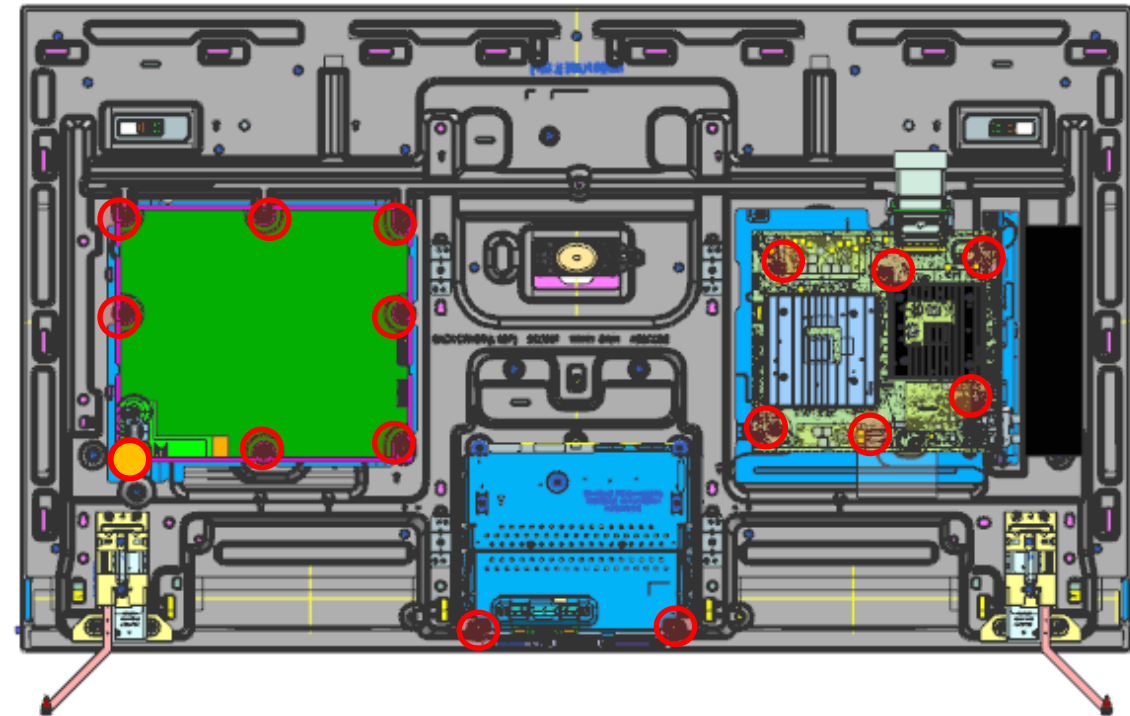
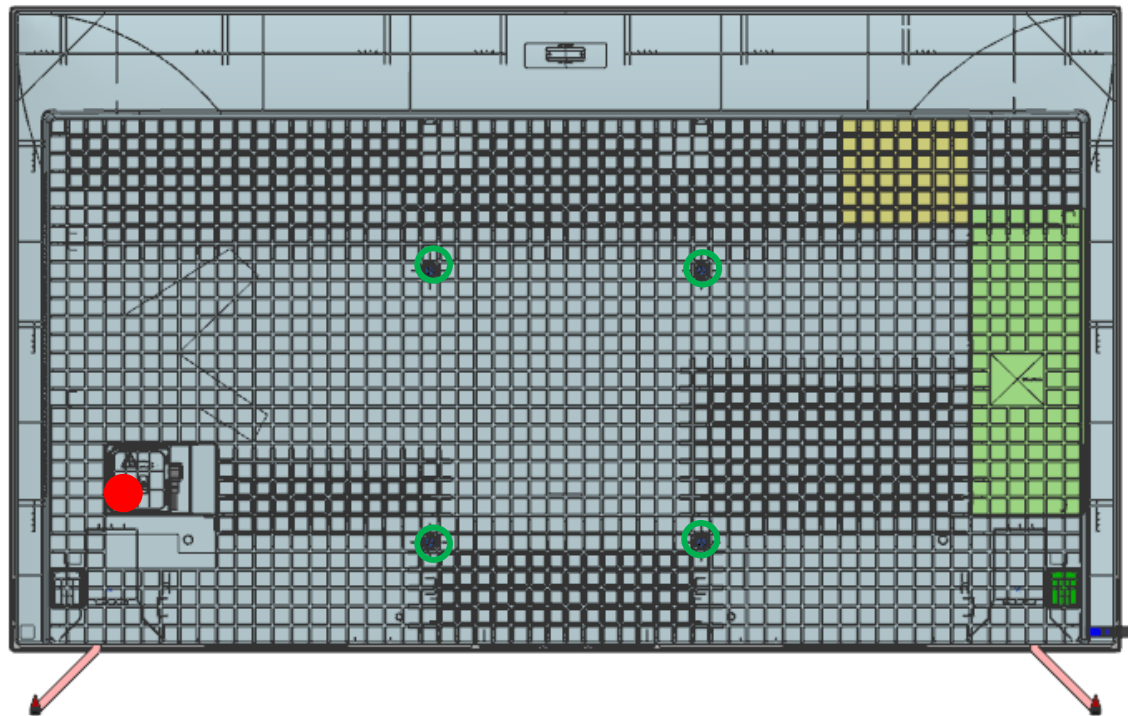
**SECTION 1: XR-55A80\* / XR-55A75L****1-4. EXPLODED VIEW AND PART LIST****SET PART LIST**

REF. NO	PART NO.	DESCRIPTION	XR-55A80K	XR-55A80CK	XR-55A80L	XR-55A80CL	XR-55A75L
			UCM	UC2	UCM	UC2	UC2
15	5-034-379-02	STAND L (2L SEP) A – Silver	•	•	•	•	n/a
16	5-034-380-02	STAND R (2L SEP) A – Silver	•	•	•	•	n/a
17	5-038-127-01	STAND DERI L (2L SEP) A – Black	n/a	n/a	n/a	n/a	•
18	5-038-128-01	STAND DERI R (2L SEP) A – Black	n/a	n/a	n/a	n/a	•

## SECTION 1: XR-55A80\* / XR-55A75L

## 1-4. EXPLODED VIEW AND PART LIST

## SCREW

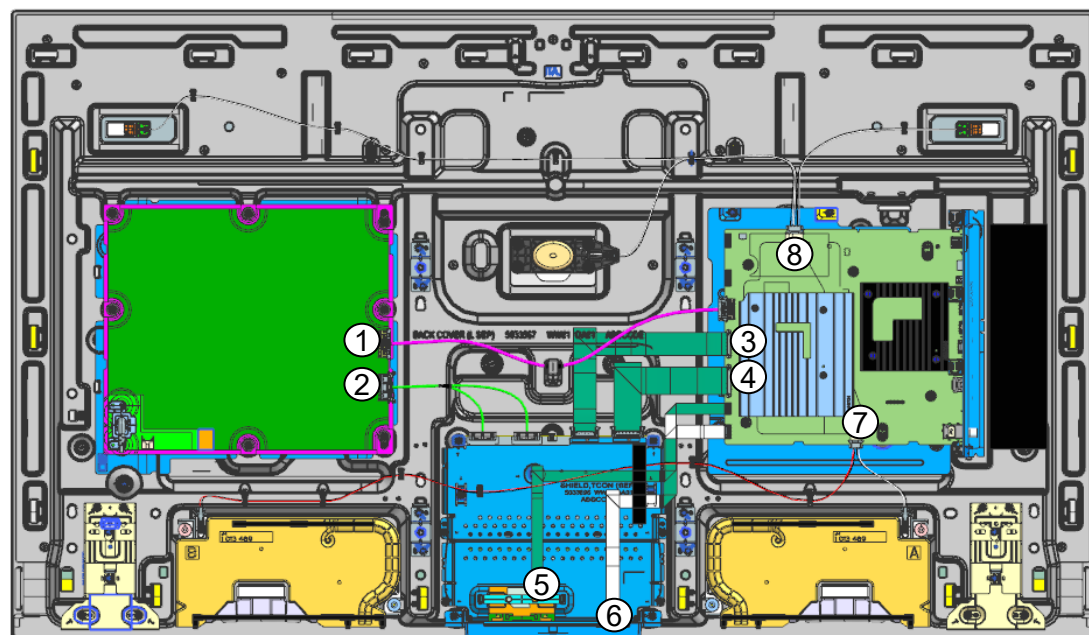


REMARKS	P/N	DESCRIPTION	QTY	TORQUE (N.m)
○	4-472-518-11	SCREW, +PSW M3X6	15	0.4 ± 0.05
●	2-580-592-01	SCREW, +PSW M3X8	1	0.4 ± 0.05
○	5-015-521-01	+PSW M6*16 W14	4	1.2 ± 0.1
●	4-579-926-01	SCREW M3X3.0 STEP (LA8)	1	0.4 ± 0.05

## SECTION 1: XR-55A80\* / XR-55A75L

## 1-4. EXPLODED VIEW AND PART LIST

## CONNECTOR




REF. NO	PART NO.	DESCRIPTION	REMARKS	
1	1-014-495-11	CONNECTOR ASSY 28P (GB)	CN6401(G25/G25B)-CN1700(BM5STY)(1)	
2	1-014-509-11	CONNECTOR ASSY 28P (GT)	CN6601(G25/G25B)-CN6(TCON)-CN8(TCON)(1)	
3	1-014-664-11	FLEXIBLE FLAT CABLE 41P	CN4201(BM5STY)-CN7(TCON)(1)	
4	1-014-666-11	FLEXIBLE FLAT CABLE 51P	CN4200(BM5STY)-CN5(TCON)(1)	
5	1-014-658-11	FLEXIBLE FLAT CABLE 20P	CN3801(BM5STY)-J1(WIFI/BT)(1)	
6	1-014-660-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5STY)-CN102(HY1)(1)	
7	1-014-508-11	CONNECTOR ASSY 4P (SP)	CN6600(BM5STY)-SP(1)	
8	1-014-491-11	CONNECTOR ASSY 6P	CN6601(BM5STY)-PZ-EXCITER(1)	80K / 80CK / 80L / 80CL
8	1-014-741-11	CONNECTOR ASSY 4P (PZ)	CN6603(B)-PZ(1)	75L

## SECTION 1: XR-55A80\* / XR-55A75L

## 1-4. EXPLODED VIEW AND PART LIST

## OTHER PARTS

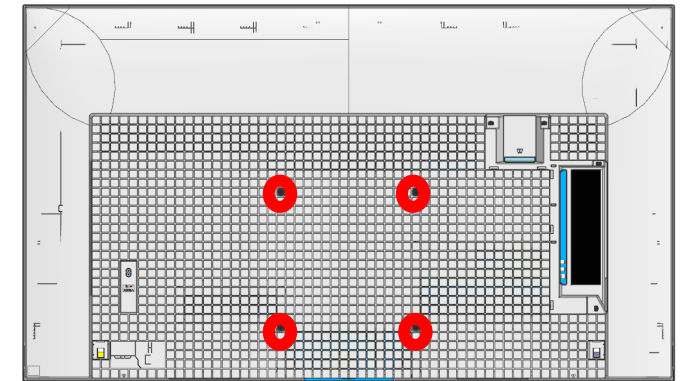
PART NO.	DESCRIPTION	XR-55A80K	XR-55A80CK	XR-55A80L	XR-55A80CL	XR-55A75L	REMARKS
		UCM	UC2	UCM	UC2	UC2	
4-535-064-62	ASSY,FALL LOCK,BELT LL	•	•	•	•	•	-
5-009-031-02	CLAMPER,CABLE S(BNN)	•	•	•	•	•	-
1-013-691-23	REMOTE COMMANDER (RMF-TX800U)	•	n/a	n/a	n/a	n/a	-
1-013-685-22	REMOTE COMMANDER (RMF-TX900U)	n/a	•	n/a	n/a	n/a	-
1-016-940-21	REMOTE COMMANDER (RMF-TX810U)	n/a	n/a	•	n/a	•	-
1-016-949-21	REMOTE COMMANDER (RMF-TX910U)	n/a	n/a	n/a	•	n/a	-
*5-037-357-11	REFERENCE GUIDE	•	•	n/a	n/a	n/a	-
*5-048-119-11	REFERENCE GUIDE	n/a	n/a	•	•	•	-
*5-050-158-11	SETUP GUIDE	n/a	n/a	•	•	n/a	-
*5-041-861-11	SETUP GUIDE	•	•	n/a	n/a	n/a	-
*5-048-125-11	SETUP GUIDE	n/a	n/a	n/a	n/a	•	-
 1-005-642-12	C7L AC POWER CORD SETS (US)	•	•	•	•	•	-
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	•	•	•	•	-
5-009-861-02	VESA SPACER A (COM)	•	•	•	•	•	Screw extension for Fall Lock Belt and Wall Mount, Qty 1, refer setup Guide for details.

## SECTION 2: XR-65A80\* / XR-65A75L

### 2-1. DISASSEMBLY AND REMOVAL CAUTION

#### REAR COVER

1. Remove the screws from the rear cover (4 pcs)

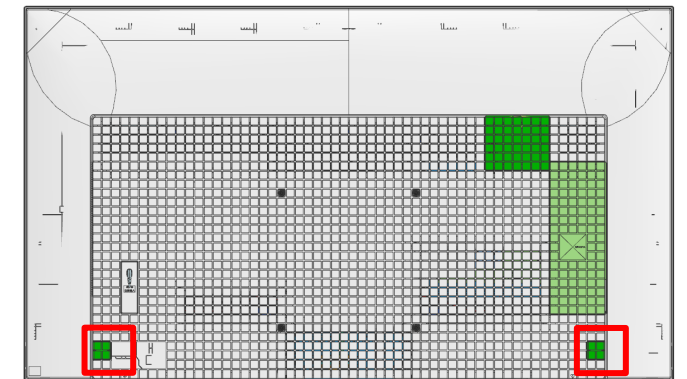
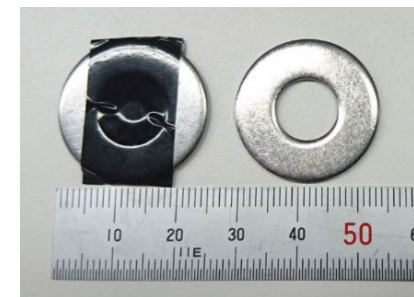


2. Remove the bottom cover.

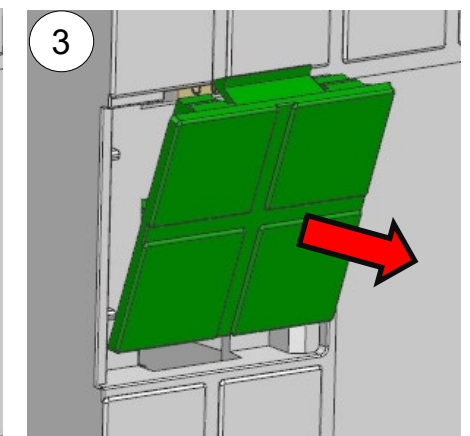
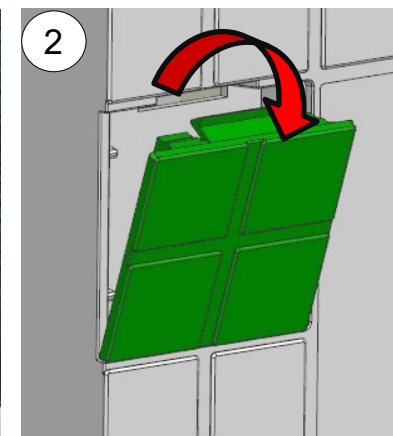
Washer or coin to unhook Cover Hook

\*Wrap washer in VA tape (15mm X 55mm)

\*Thickness approximately 1.5mm



- ① Put washer or coin in the slit of cover hook.
- ② Turn washer or coin to the direction of the arrow.
- ③ Remove cover hook.




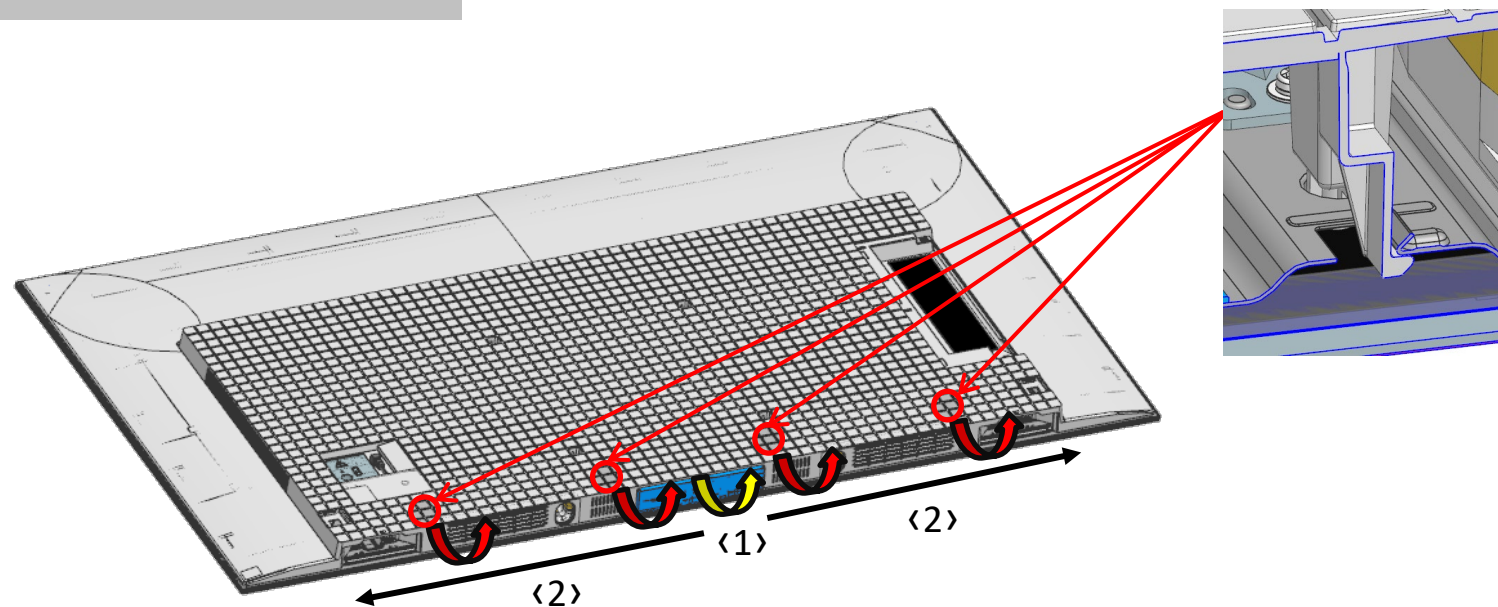
## SECTION 2: XR-65A80\* / XR-65A75L

## 2-1. DISASSEMBLY AND REMOVAL CAUTION

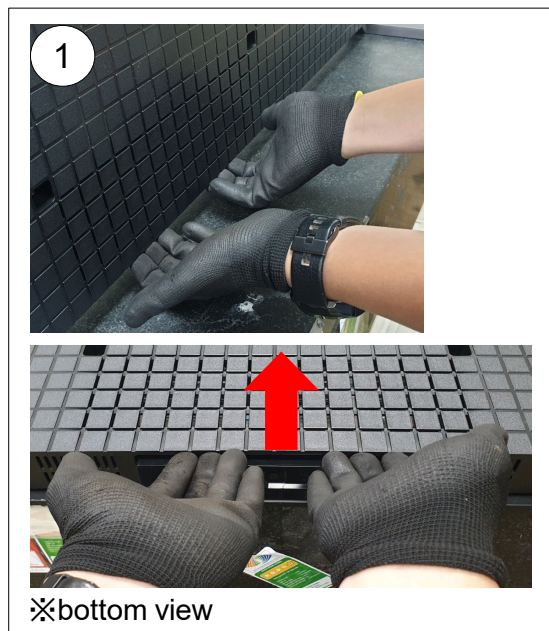
### REAR COVER

3. Unhook the bottom hook, starting from center.(4 hooks)

Legend  
 =bottom hook



- ① Pull rear cover bottom center until hook release sound is heard.
- ② Pull rear cover towards outside direction until hook release sound is heard.







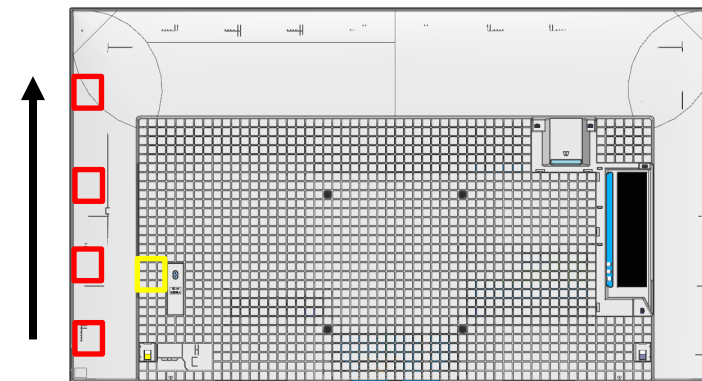
## SECTION 2: XR-65A80\* / XR-65A75L

### 2-1. DISASSEMBLY AND REMOVAL CAUTION

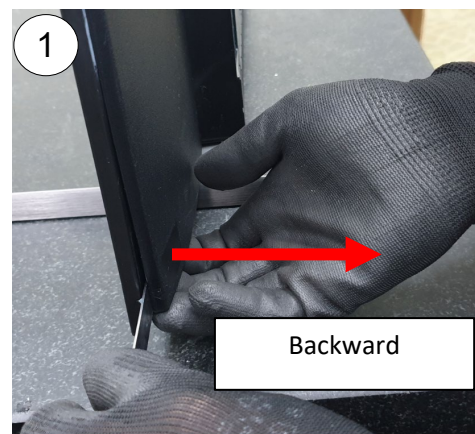
#### REAR COVER

4. Unhook the left side hooks. (4 hooks)

<p>Legend</p> <p> =outline hook</p> <p> =AC tml Hook</p>
--



- ① When releasing hook, pull the rear cover corner and insert jig
- ② Flex the rear cover outwards to release outline hook
- ③ Pull rear cover below the AC tml to release the AC tml hook



Ruler or jig to release corner hook  
 \*Wrap ruler with tape to prevent scratch





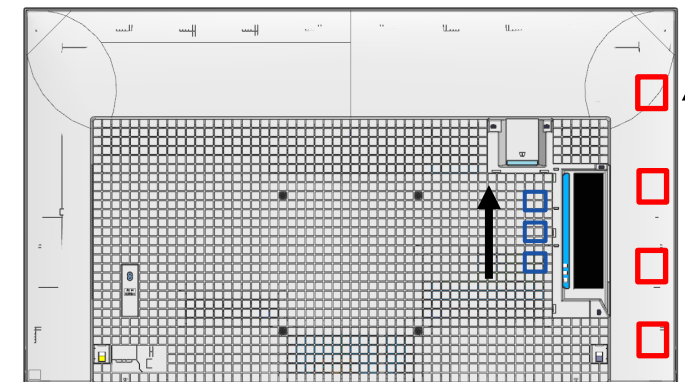
## SECTION 2: XR-65A80\* / XR-65A75L

## 2-1. DISASSEMBLY AND REMOVAL CAUTION

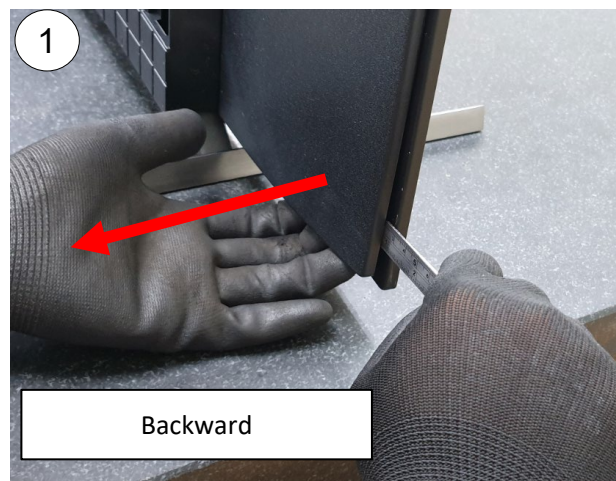
### REAR COVER

5. Unhook the right-side hooks. (4 hooks)

Legend	
	=outline hook
	=Side Jack Bottom Hook (3 hooks)



- ① When releasing hook, pull the rear cover and insert jig
- ② Flex the rear cover outwards to release outline hook
- ③ Pull rear cover below the side jack to release the side jack bottom hook.



Ruler or jig to release corner hook  
 \*Wrap ruler with tape to prevent scratch




## SECTION 2: XR-65A80\* / XR-65A75L

### 2-1. DISASSEMBLY AND REMOVAL CAUTION

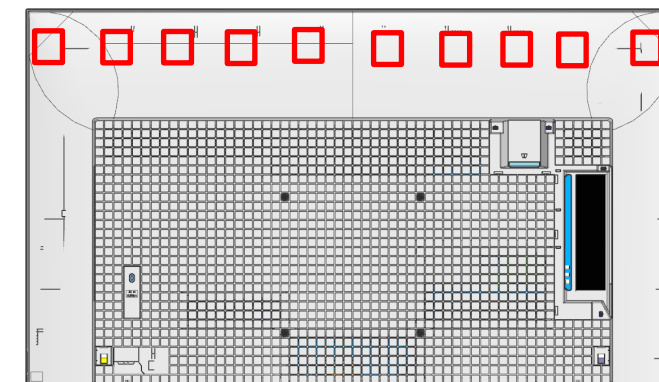
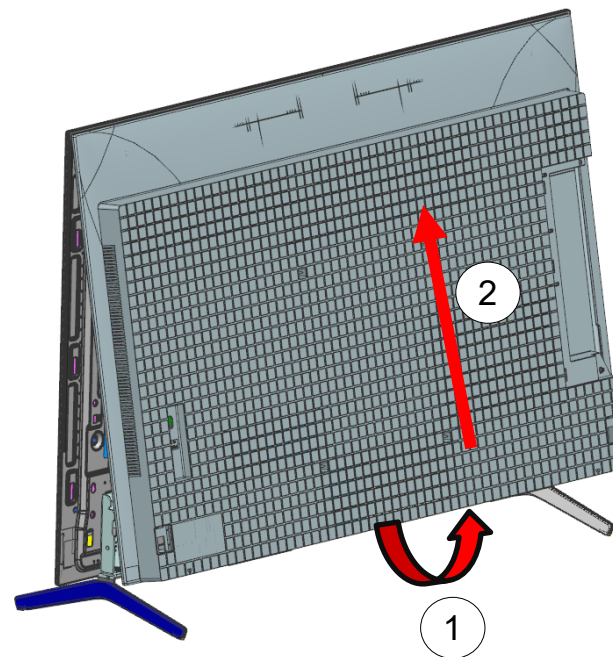
#### REAR COVER

6. Unhook the top row hooks. (10 hooks)

Legend

=outline hook

- ① Tilt the rear cover and push upwards on the left/right side.
- ② Lift the rear cover off from the center

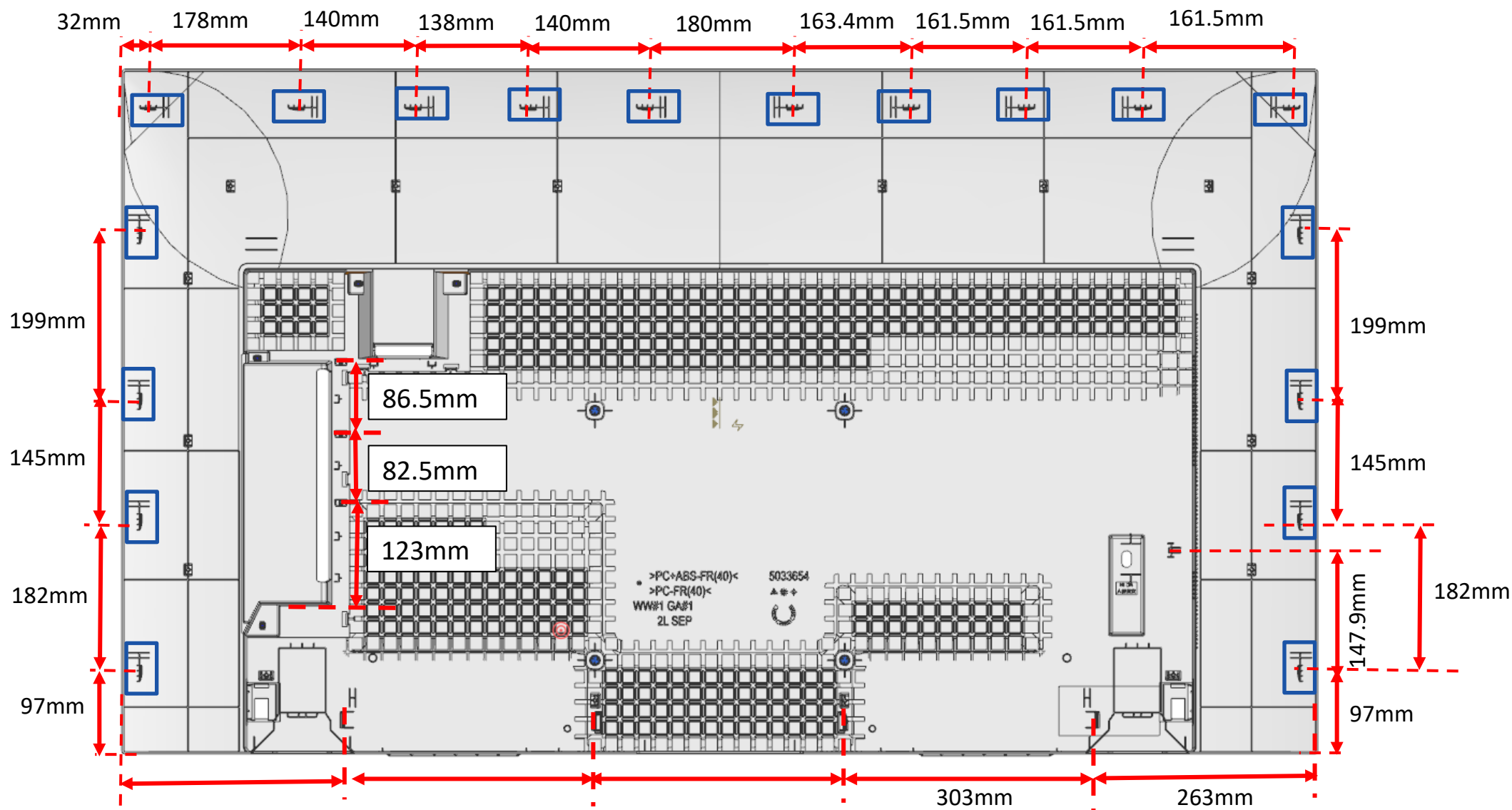


## SECTION 2: XR-65A80\* / XR-65A75L

## 2-1. DISASSEMBLY AND REMOVAL CAUTION

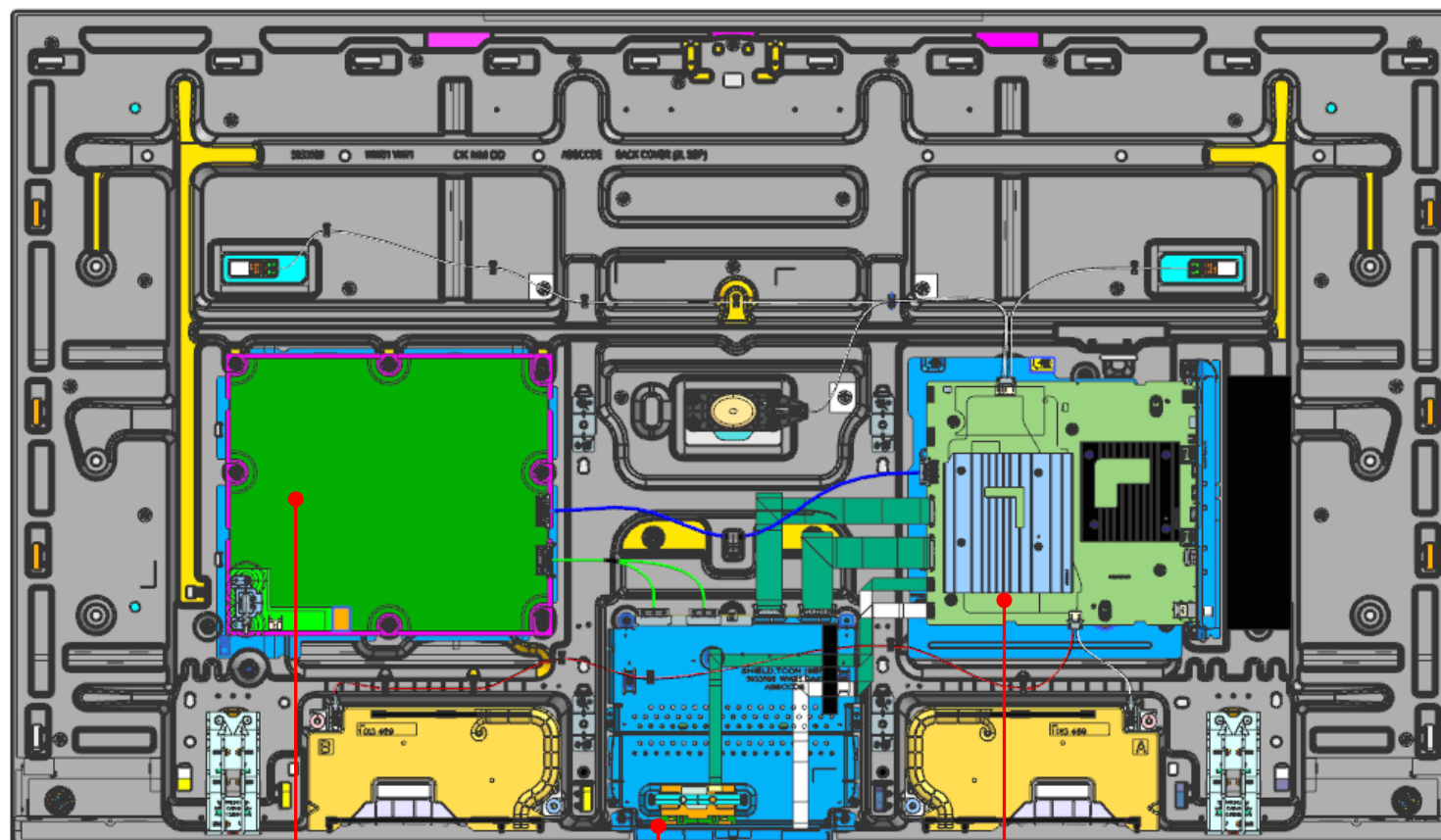
### REAR COVER

Hook positioning.



## SECTION 2: XR-65A80\* / XR-65A75L

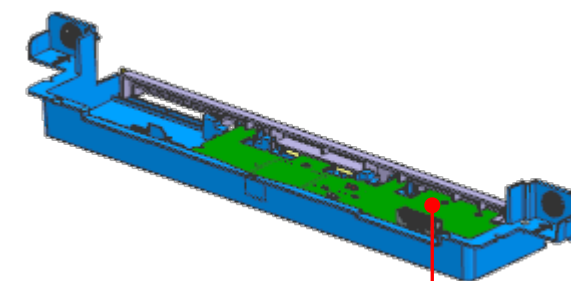
## 2-2. BOARD LOCATION



POWER BOARD

WI-FI BOARD

MAIN BOARD



RECEIVER BOARD

## SECTION 2: XR-65A80\* / XR-65A75L

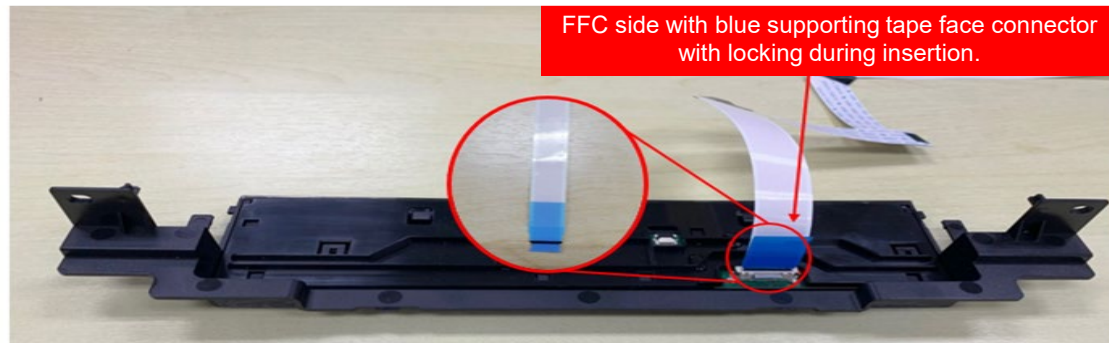
## 2-3. WIRE DRESSING

### INFORMATION

#### Caution:

1. Operator need to fix Smart Core on FLAT surface before FFC insertion to ensure FFC STRAIGHT insertion.
2. FFC side with blue supporting tape, must face CONNECTOR WITH LOCKING during FFC insertion.

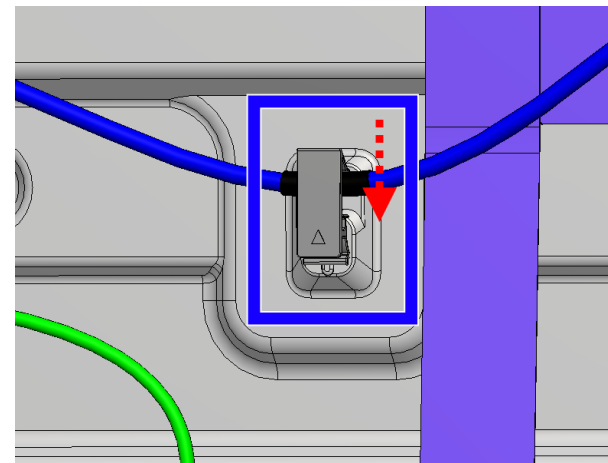
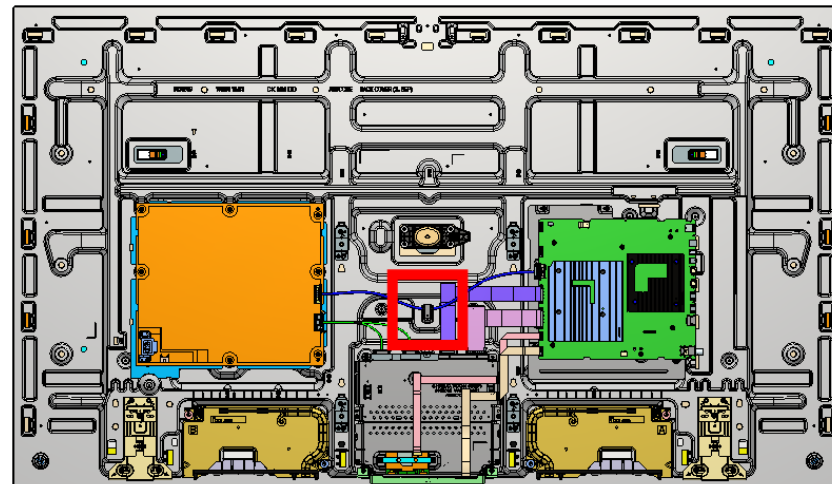
After assemble Receiver board to Smart Core, operator need to insert Receiver board FFC in straight condition.



FFC side with blue supporting tape face connector with locking during insertion.

Smart Core is placed on FLAT surface during FFC insertion.

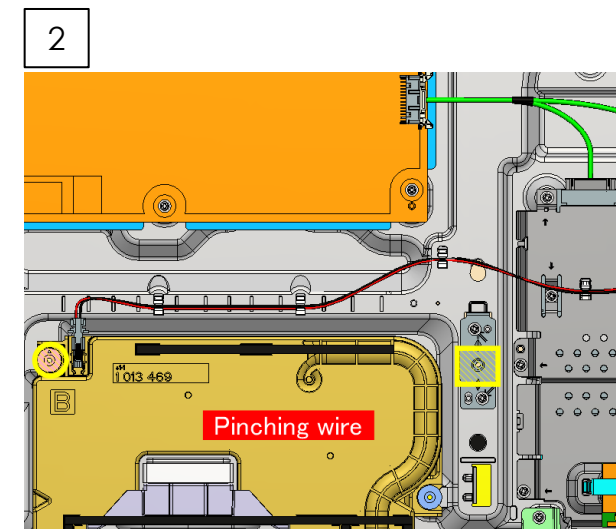
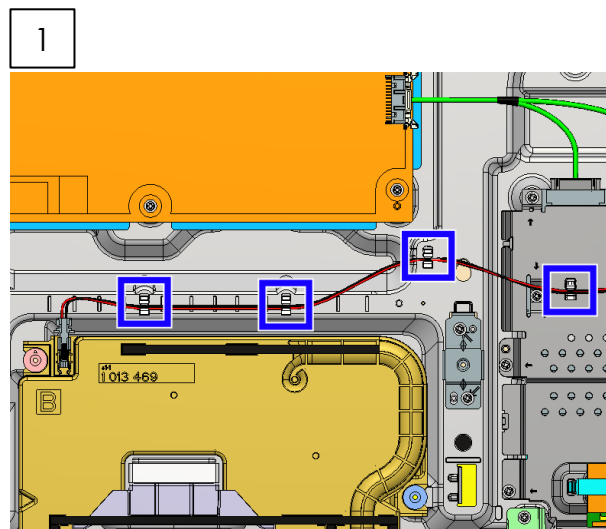
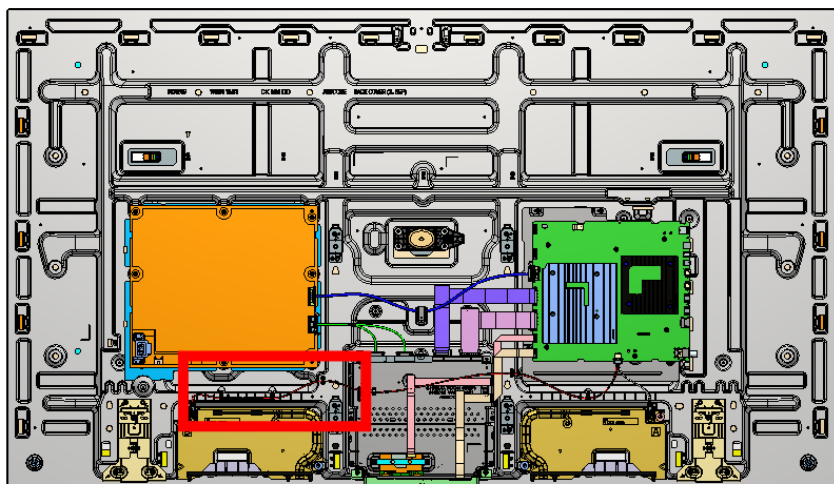
### WIRE DRESSING



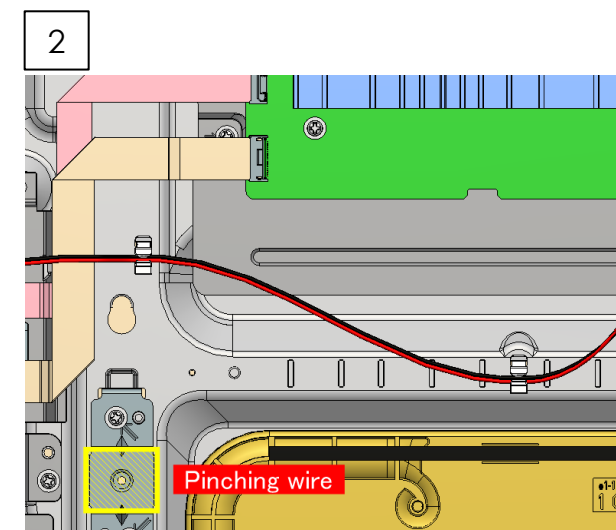
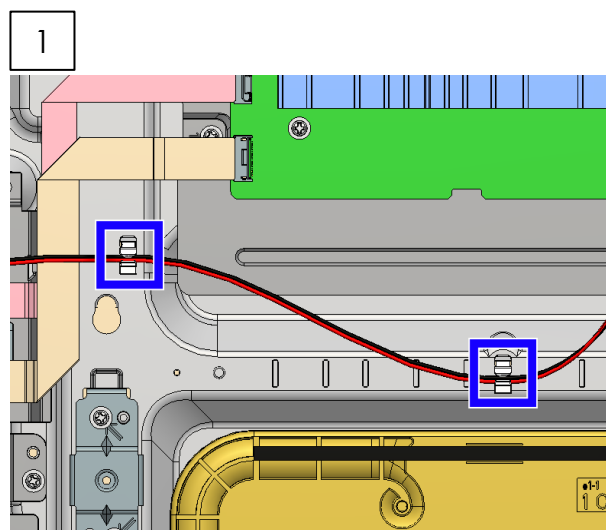
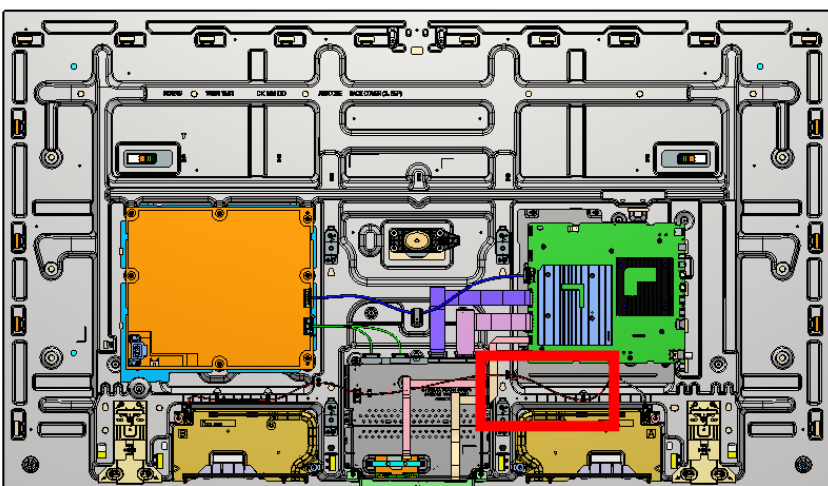
## SECTION 2: XR-65A80\* / XR-65A75L

## 2-3. WIRE DRESSING

### WIRE DRESSING



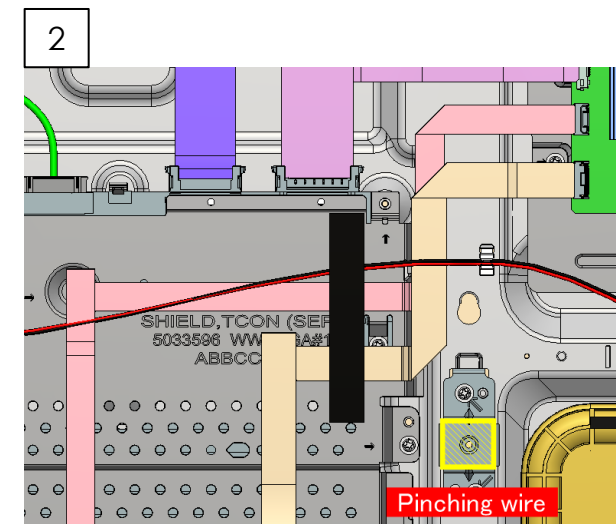
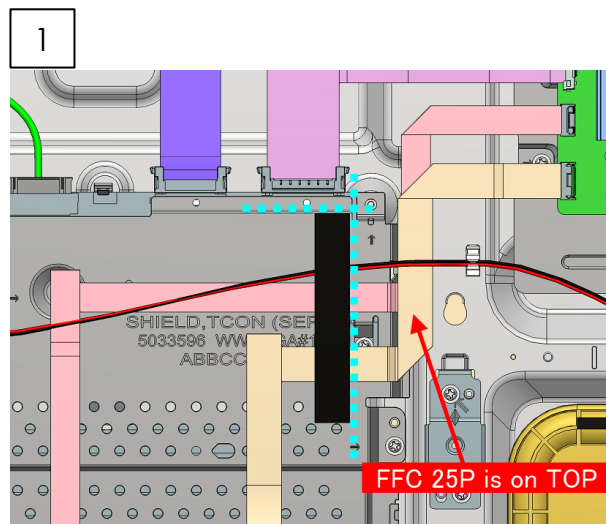
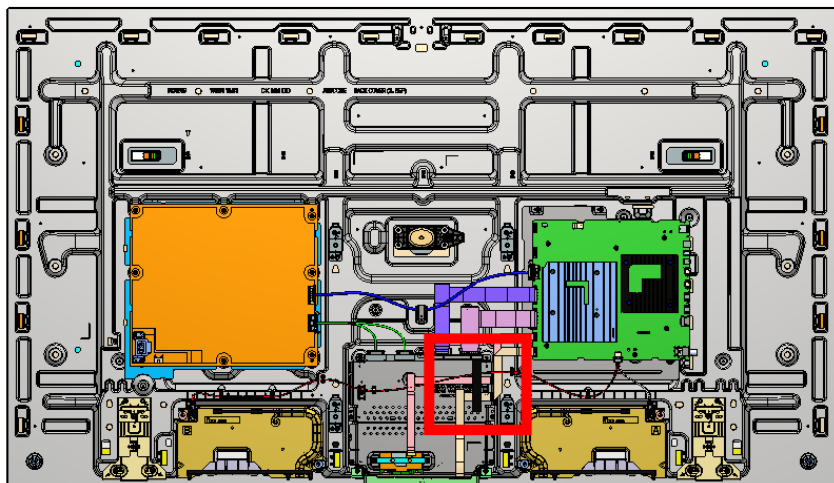
### WIRE DRESSING



## SECTION 2: XR-65A80\* / XR-65A75L

## 2-3. WIRE DRESSING

### TAPE

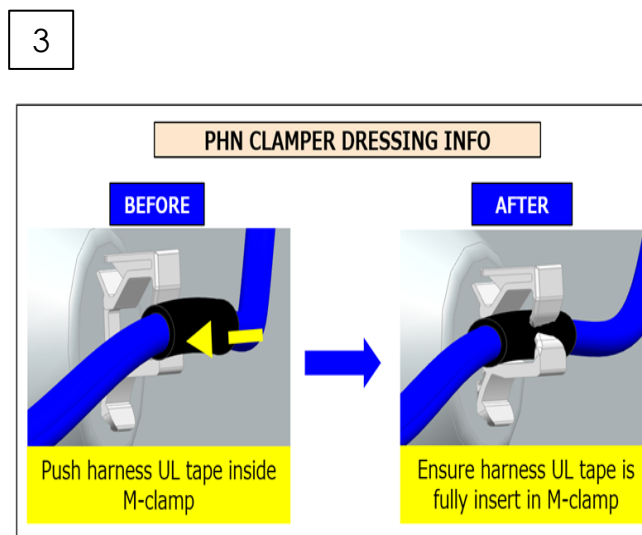
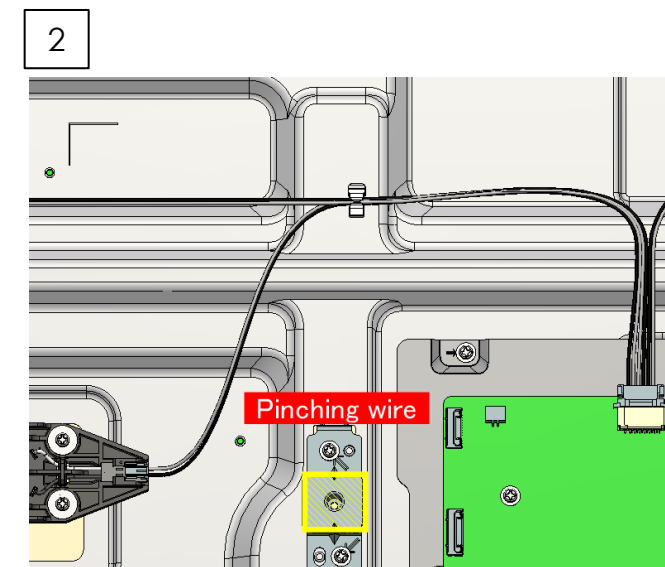
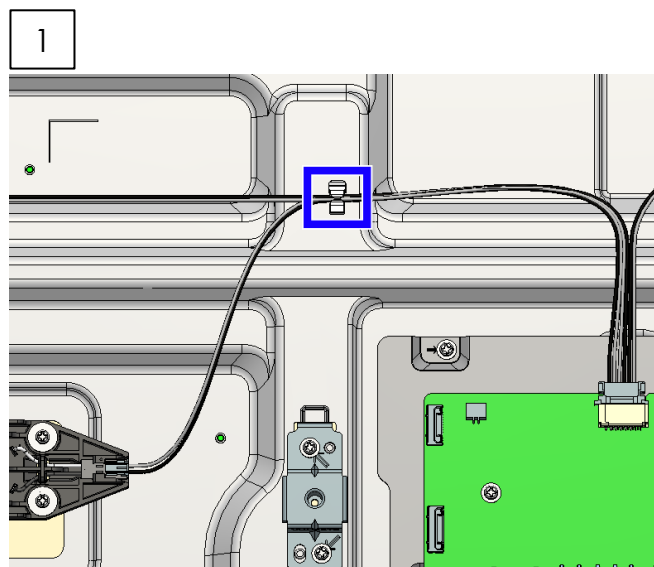
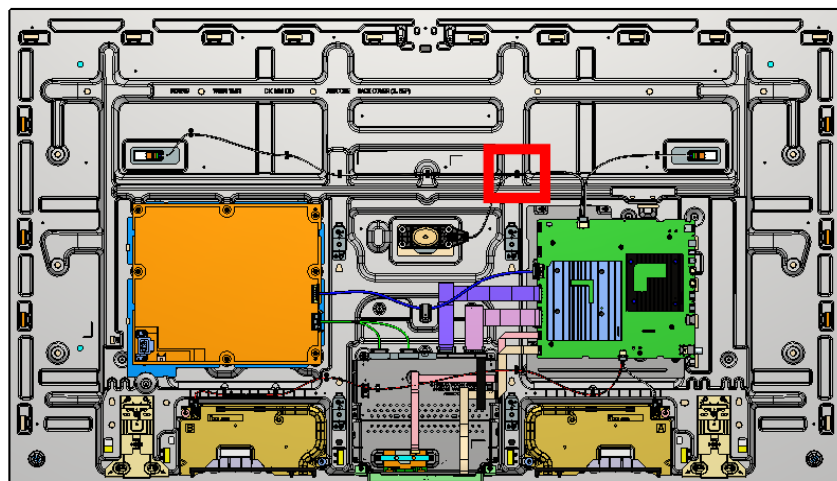




# SECTION 2: XR-65A80\* / XR-65A75L

# 2-3. WIRE DRESSING

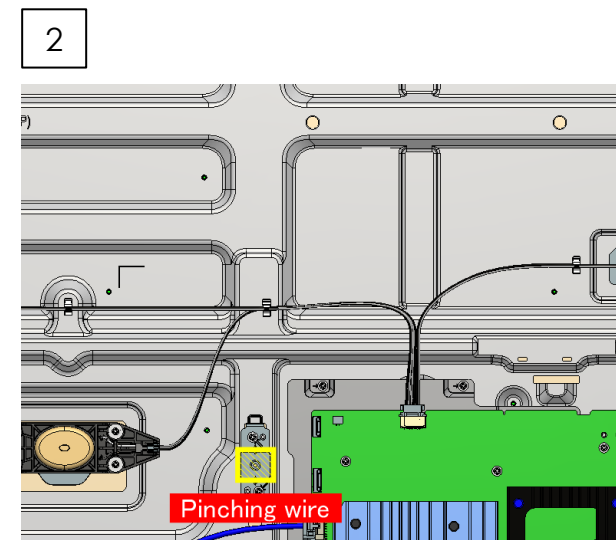
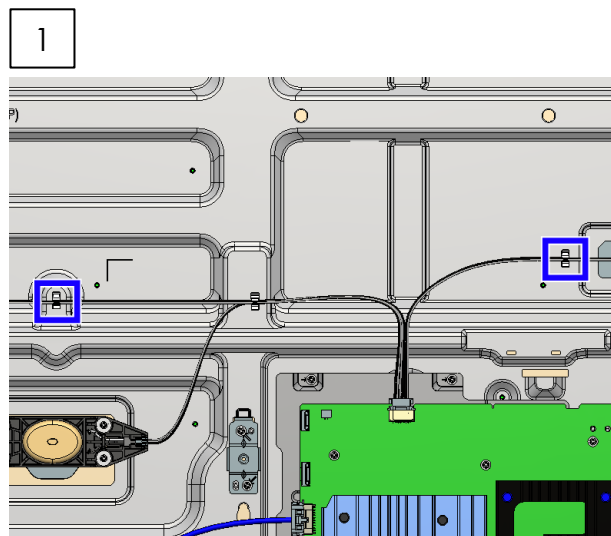
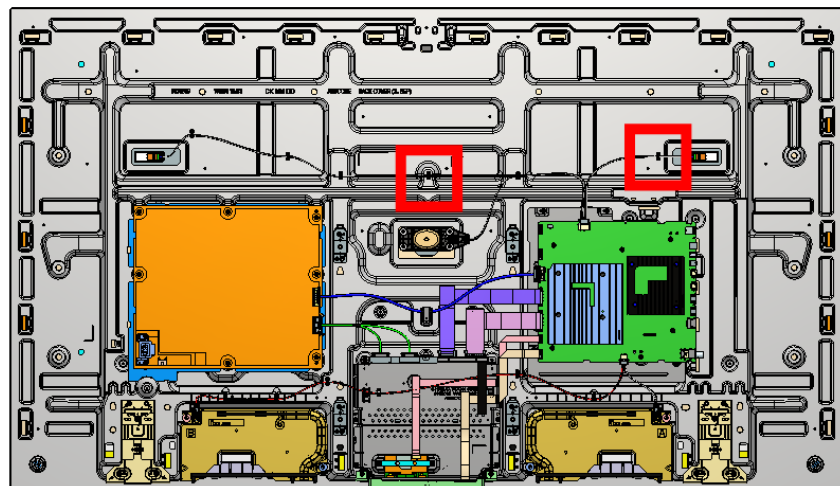
## WIRE DRESSING – 80K / 80CK / 80L / 80CL



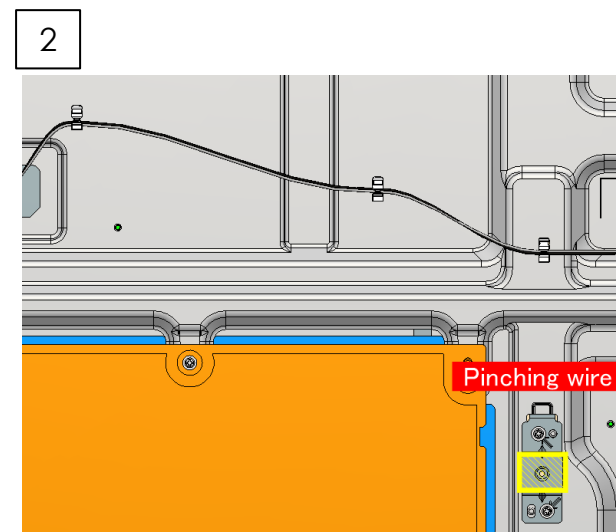
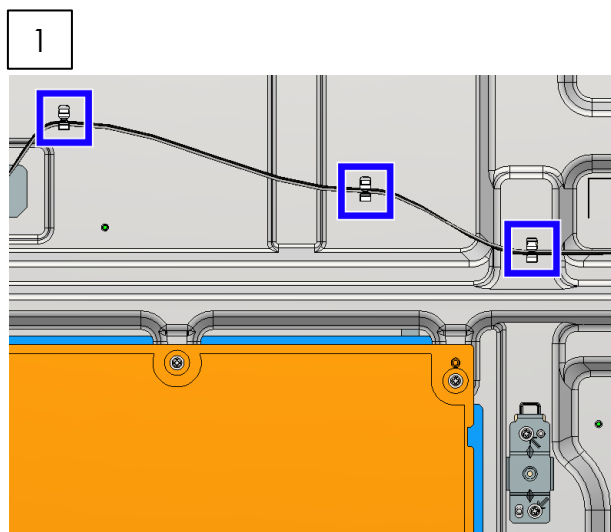
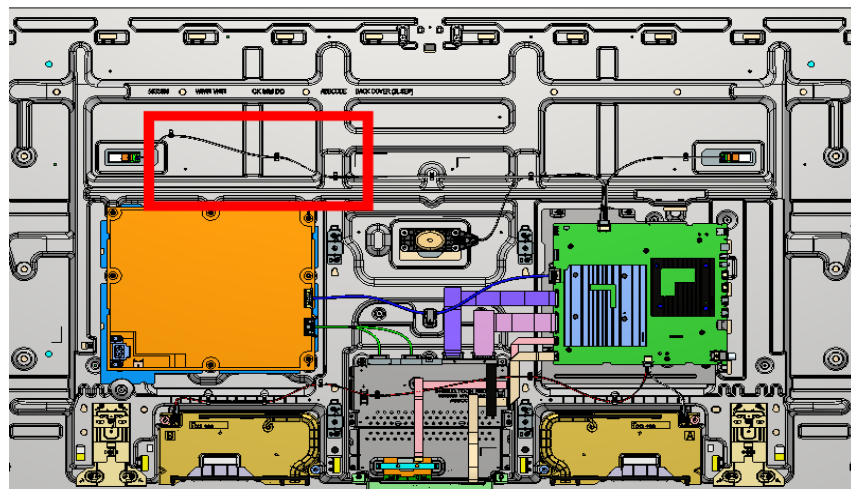
## SECTION 2: XR-65A80\* / XR-65A75L

## 2-3. WIRE DRESSING

### WIRE DRESSING – 80K / 80CK / 80L / 80CL



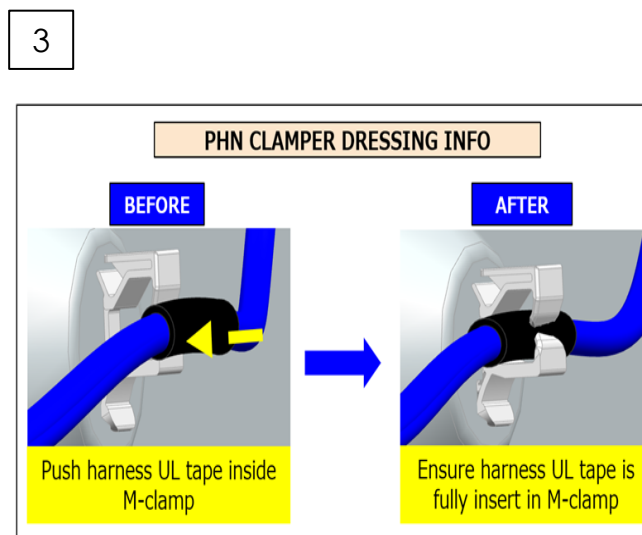
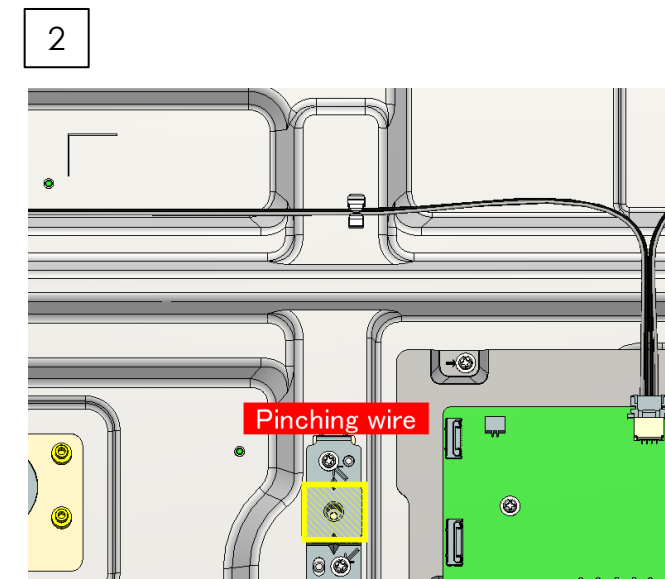
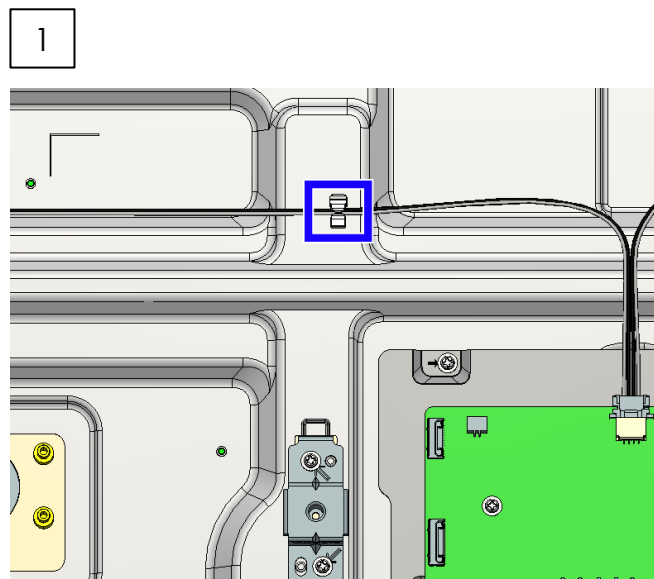
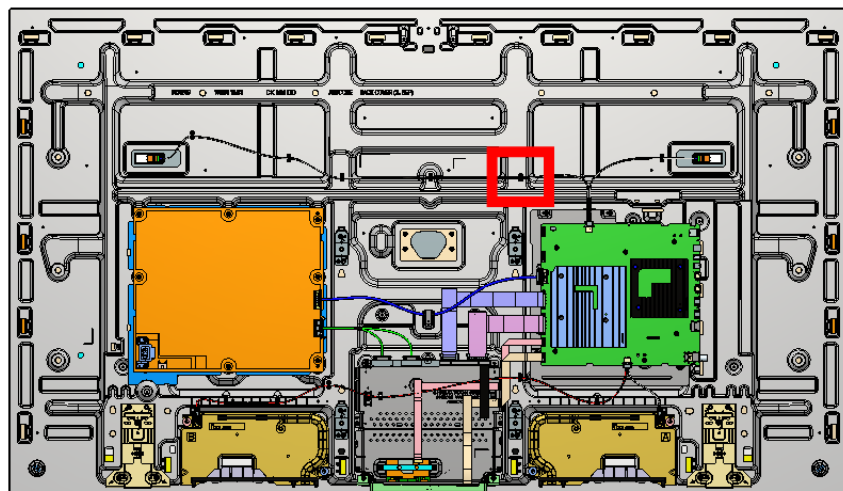
### WIRE DRESSING – 80K / 80CK / 80L / 80CL



# SECTION 2: XR-65A80\* / XR-65A75L

# 2-3. WIRE DRESSING

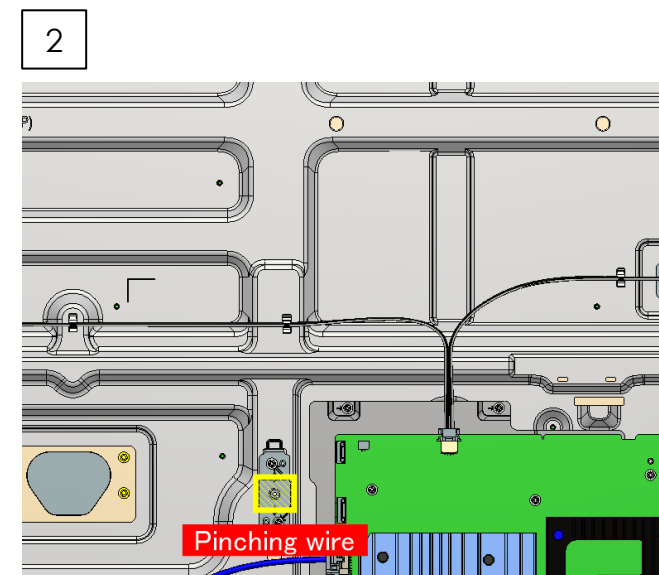
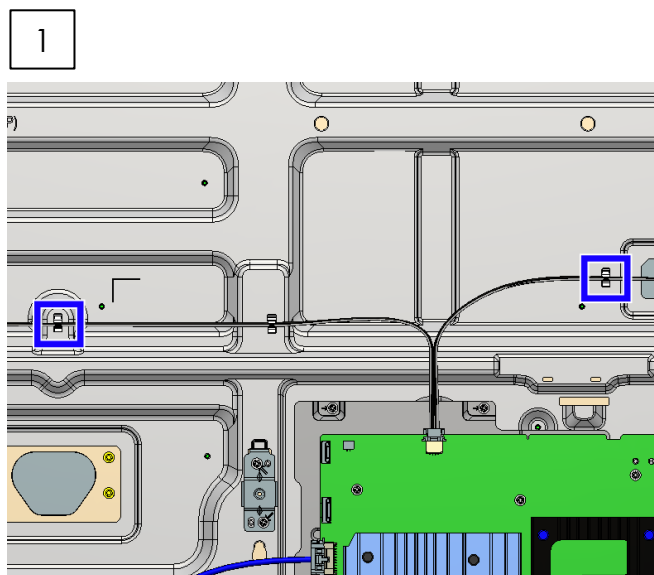
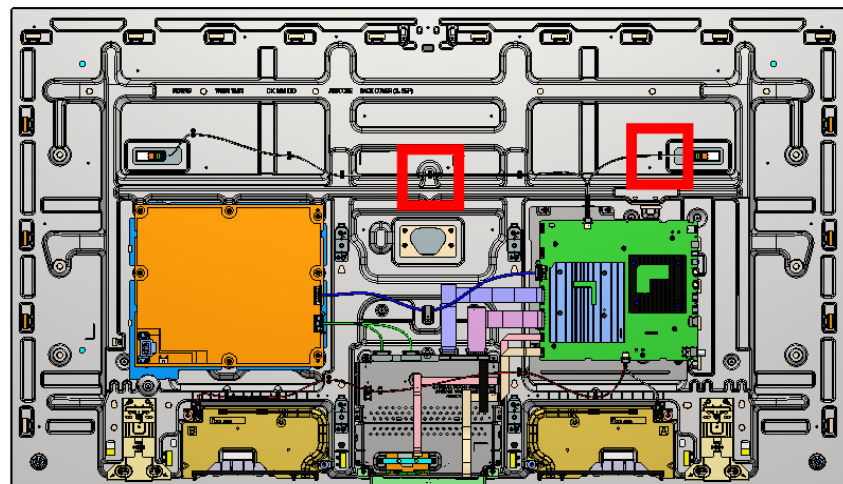
## WIRE DRESSING – 75L



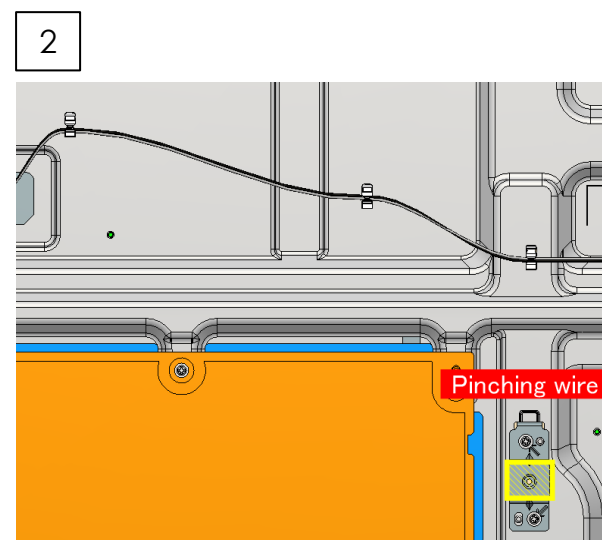
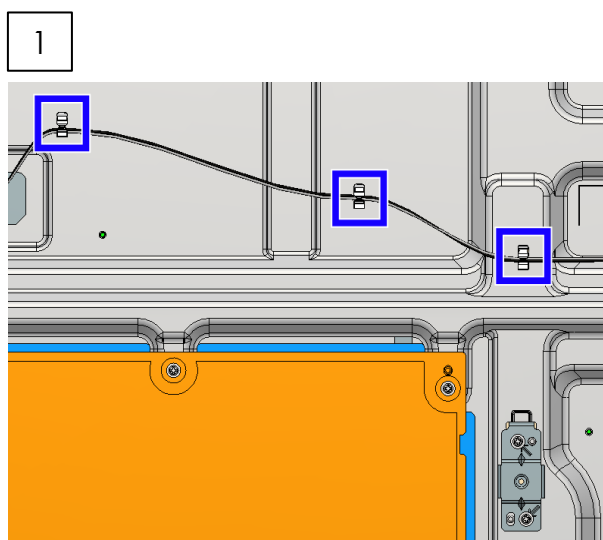
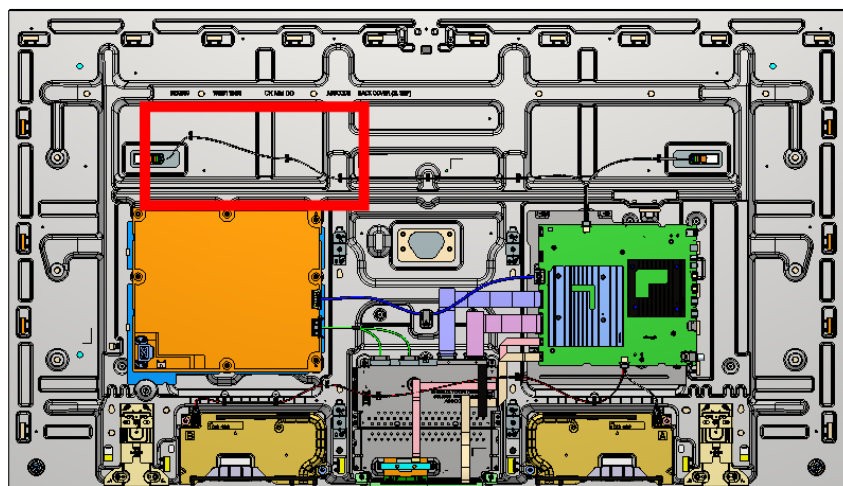
## SECTION 2: XR-65A80\* / XR-65A75L

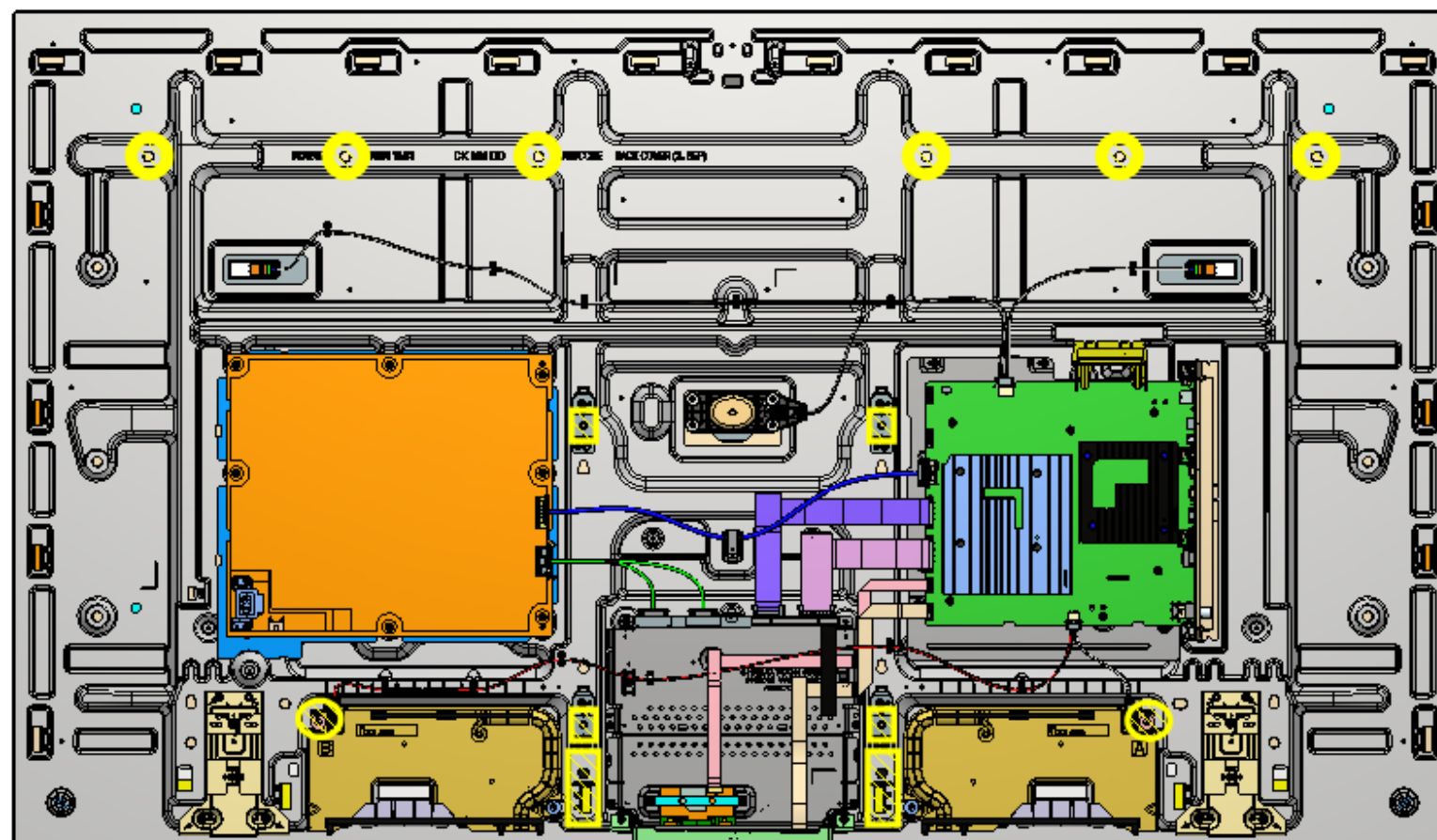
## 2-3. WIRE DRESSING

### WIRE DRESSING – 75L



### WIRE DRESSING – 75L



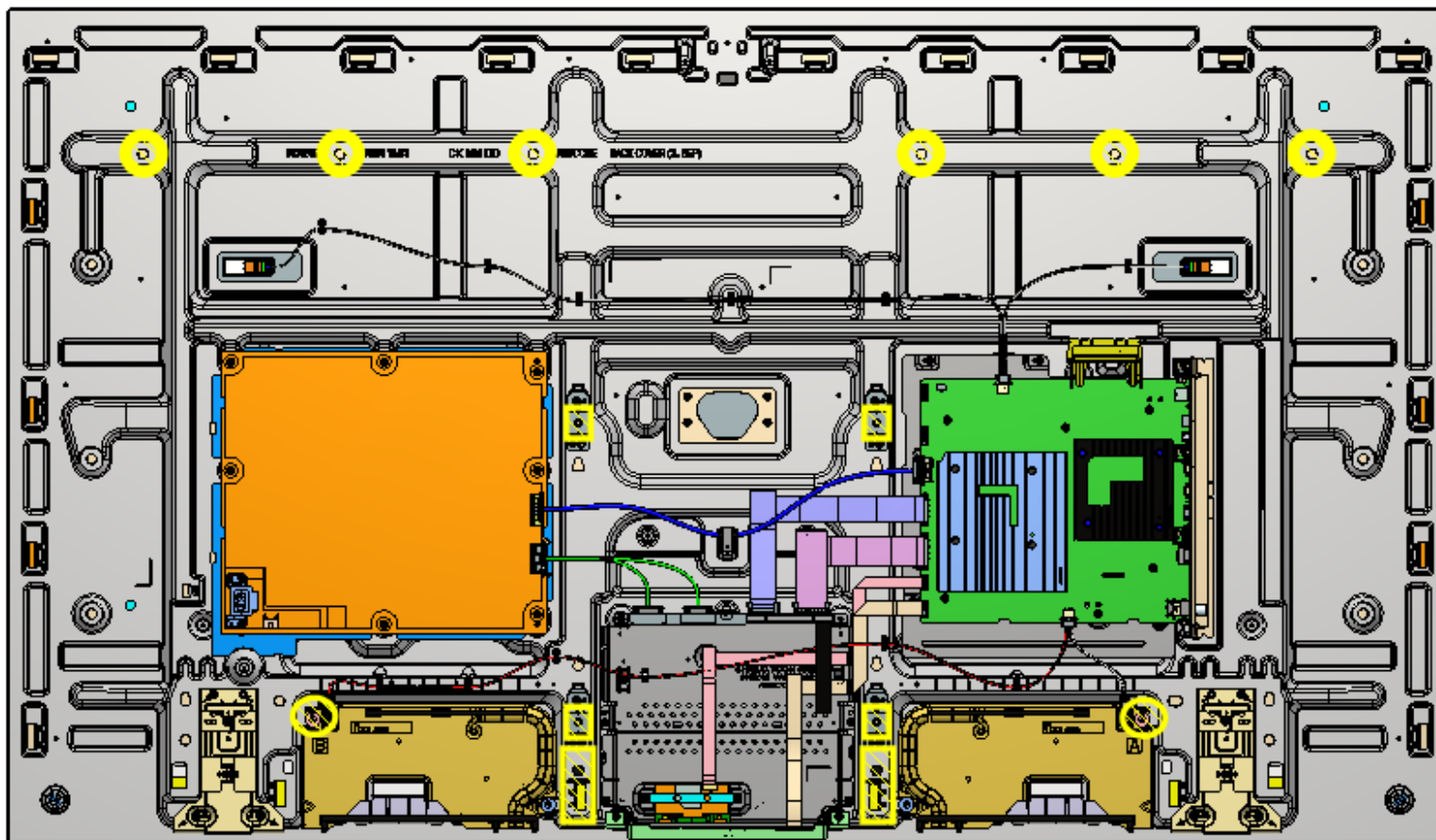
**SECTION 2: XR-65A80\* / XR-65A75L****2-3. WIRE DRESSING**INFORMATION – 80K / 80CK / 80L / 80CL

**Keep harness away from inhibit area**

## SECTION 2: XR-65A80\* / XR-65A75L

## 2-3. WIRE DRESSING



INFORMATION – 75L



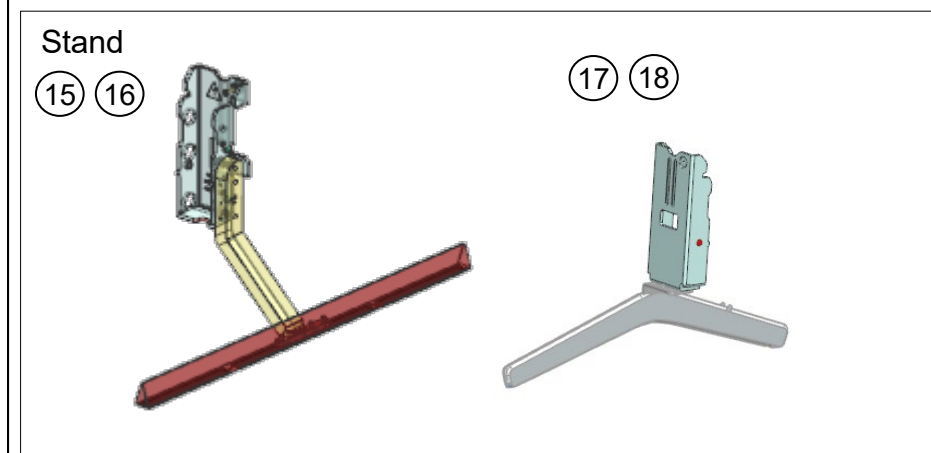
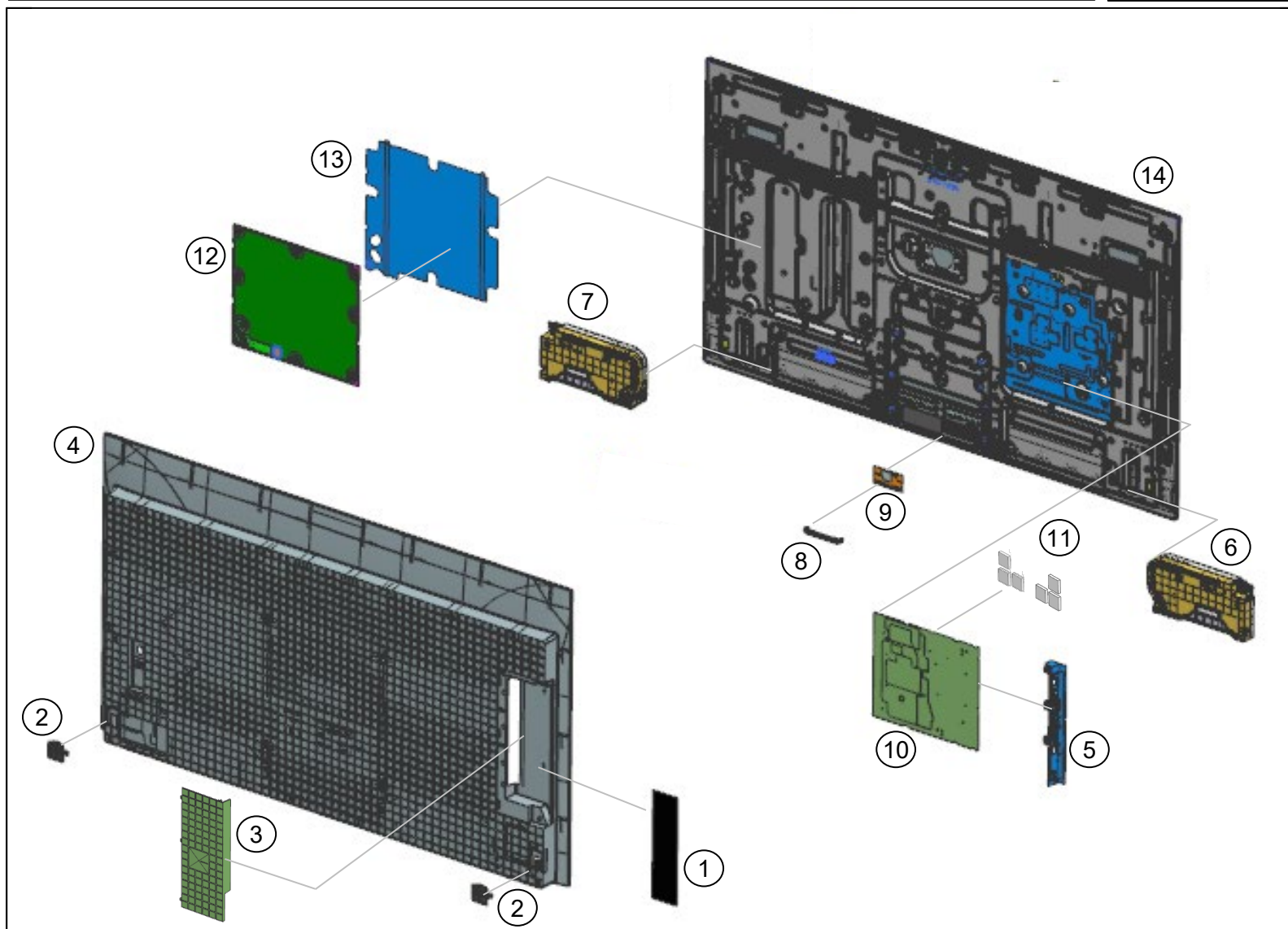
**Keep harness away from inhibit area**

## SECTION 2: XR-65A80\* / XR-65A75L

## 2-4. EXPLODED VIEW AND PART LIST

- 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 2: XR-65A80\* / XR-65A75L

## 2-4. EXPLODED VIEW AND PART LIST

## SET PART LIST

REF. NO	PART NO.	DESCRIPTION	XR-65A80K	XR-65A80CK	XR-65A80L	XR-65A80CL	XR-65A75L
			UCM	UC2	UCM	UC2	UC2
1	5-039-876-01	LABEL, SIDE TERMINAL HP (TGR)	•	•	n/a	n/a	n/a
2	5-033-671-01	BTM COVER BARE (COM SEP)	•	•	•	•	•
3	5-033-669-01	TERMINAL COVER (COM SEP)	•	•	•	•	•
 4	5-036-345-04	REAR COVER (2L SEP) A	•	•	•	•	•
5	5-039-955-11	BRACKET SIDE (BNN) A	•	•	•	•	•
6	1-013-469-11	SP-BOX ASSY,FY22 W40L-A	•	•	•	•	•
7	1-013-469-21	SP-BOX ASSY,FY22 W40L-B	•	•	•	•	•
8	5-009-258-22	BRACKET, WIFI(BNN)	•	•	•	•	•
 9	1-005-419-14	WLAN/BT MODULE(11AC)	•	•	•	•	•
 10	A-5042-804-A	COMPL_SVC_BM5STY_UC_FS	•	•	n/a	n/a	n/a
 10	A-5056-923-A	COMPL_SVC_BM5STY_FS2_UCM	n/a	n/a	•	•	n/a
 10	A-5056-949-A	COMPL_SVC_BM5STY_FSL2_UCM	n/a	n/a	n/a	n/a	•
11	4-457-451-12	SHEET, THERMAL (BAF)	•	•	•	•	•
 12	1-013-508-22	G25P-STATIC CONVERTER (TV)	•	•	n/a	n/a	n/a
 12	1-013-508-41	G25P-STATIC CONVERTER (TV)	n/a	n/a	•	•	•
 13	5-035-920-11	SHEET, INSULATION (L SEP) A	•	•	•	•	•
 14	A-5044-453-A	P-MOD (YDCM065UNG01)(SVC)	•	n/a	n/a	n/a	n/a
 14	A-5058-098-A	P-MOD (YDCM065UNG01)(SVC)	n/a	n/a	•	n/a	n/a



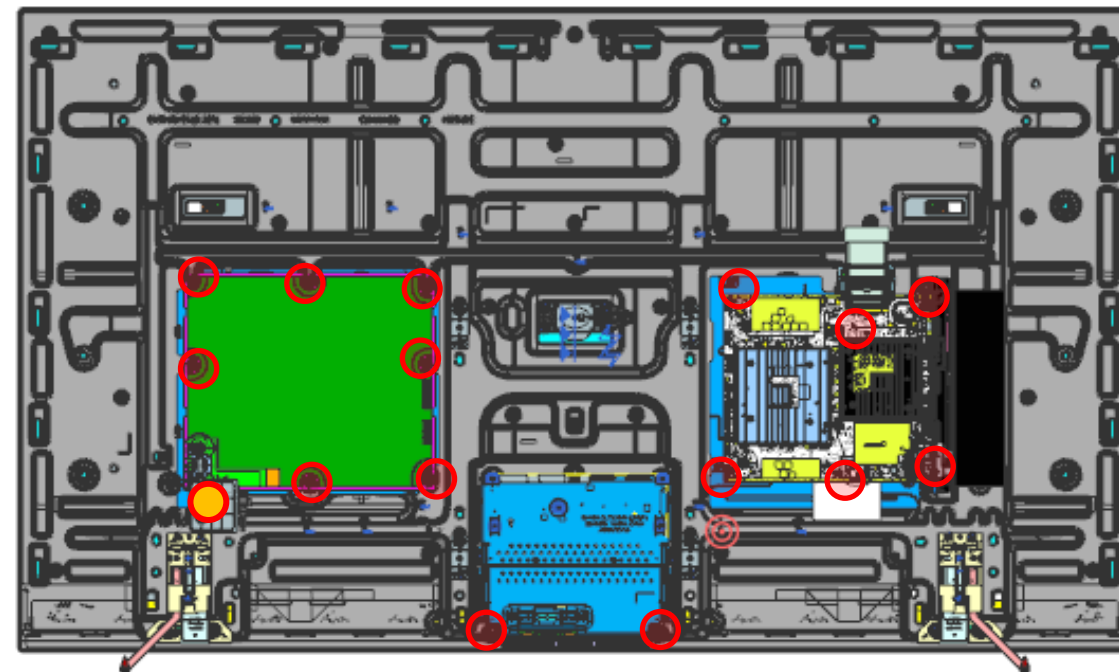
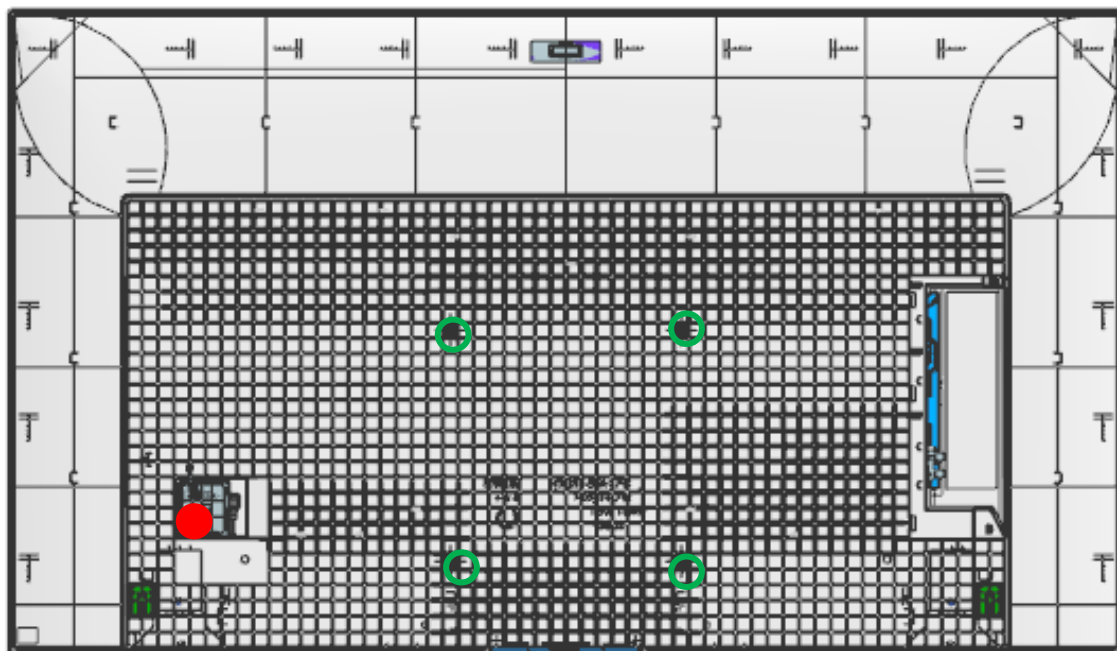
**SECTION 2: XR-65A80\* / XR-65A75L****2-4. EXPLODED VIEW AND PART LIST****SET PART LIST**

REF. NO	PART NO.	DESCRIPTION	XR-65A80K	XR-65A80CK	XR-65A80L	XR-65A80CL	XR-65A75L
			UCM	UC2	UCM	UC2	UC2
15	5-034-379-02	STAND L (2L SEP) A – Silver	•	•	•	•	n/a
16	5-034-380-02	STAND R (2L SEP) A – Silver	•	•	•	•	n/a
17	5-038-127-01	STAND DERI L (2L SEP) A – Black	n/a	n/a	n/a	n/a	•
18	5-038-128-01	STAND DERI R (2L SEP) A – Black	n/a	n/a	n/a	n/a	•

**SECTION 2: XR-65A80\* / XR-65A75L**

**2-4. EXPLODED VIEW AND PART LIST**

**SCREW**

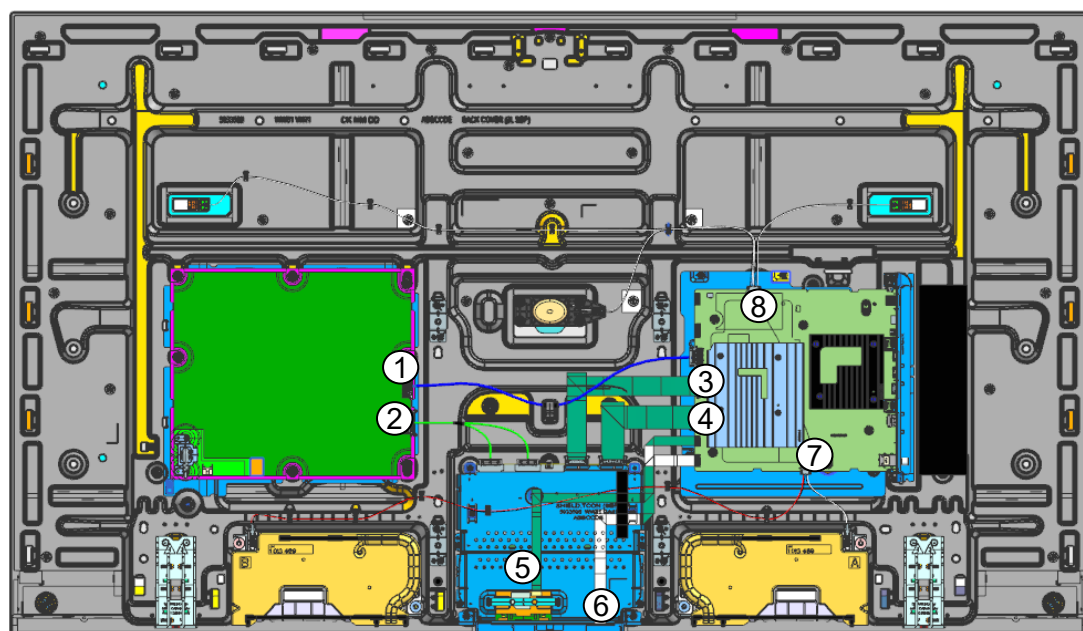


REMARKS	P/N	DESCRIPTION	QTY	TORQUE (N.m)
○	4-472-518-11	SCREW, +PSW M3X6	15	0.4 ± 0.05
●	2-580-592-01	SCREW, +PSW M3X8	1	0.4 ± 0.05
○	5-015-521-01	+PSW M6*16 W14	4	1.2 ± 0.1
●	4-579-926-01	SCREW M3X3.0 STEP	1	0.4 ± 0.05

## SECTION 2: XR-65A80\* / XR-65A75L

## 2-4. EXPLODED VIEW AND PART LIST

## CONNECTOR




REF. NO	PART NO.	DESCRIPTION	REMARKS	
1	1-014-495-11	CONNECTOR ASSY 28P (GB)	CN6401(G25/G25B)-CN1700(BM5STY)(1)	
2	1-014-509-11	CONNECTOR ASSY 28P (GT)	CN6601(G25/G25B)-CN6(TCON)-CN8(TCON)(1)	
3	1-014-664-11	FLEXIBLE FLAT CABLE 41P	CN4201(BM5STY)-CN7(TCON)(1)	
4	1-014-666-11	FLEXIBLE FLAT CABLE 51P	CN4200(BM5STY)-CN5(TCON)(1)	
5	1-014-658-11	FLEXIBLE FLAT CABLE 20P	CN3801(BM5STY)-J1(WIFI/BT)(1)	
6	1-014-660-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5STY)-CN102(HY1)(1)	
7	1-014-508-11	CONNECTOR ASSY 4P (SP)	CN6600(BM5STY)-SP(1)	
8	1-014-491-11	CONNECTOR ASSY 6P	CN6601(BM5STY)-PZ-EXCITER(1)	80K / 80CK / 80L / 80CL
8	1-014-741-11	CONNECTOR ASSY 4P (PZ)	CN6603(B)-PZ(1)	75L

## SECTION 2: XR-65A80\* / XR-65A75L

## 2-4. EXPLODED VIEW AND PART LIST

## OTHER PARTS

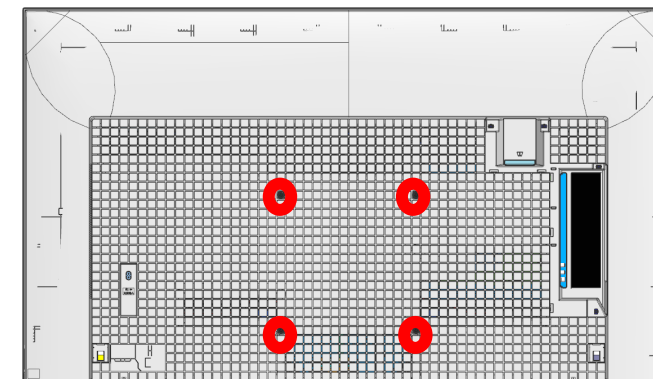
PART NO.	DESCRIPTION	XR-65A80K	XR-65A80CK	XR-65A80L	XR-65A80CL	XR-65A75L	REMARKS
		UCM	UC2	UCM	UC2	UC2	
4-535-064-62	ASSY,FALL LOCK,BELT LL	•	•	•	•	•	-
5-009-031-02	CLAMPER,CABLE S(BNN)	•	•	•	•	•	-
1-013-691-23	REMOTE COMMANDER (RMF-TX800U)	•	n/a	n/a	n/a	n/a	-
1-013-685-22	REMOTE COMMANDER (RMF-TX900U)	n/a	•	n/a	n/a	n/a	-
1-016-940-21	REMOTE COMMANDER (RMF-TX810U)	n/a	n/a	•	n/a	•	-
1-016-949-21	REMOTE COMMANDER (RMF-TX910U)	n/a	n/a	n/a	•	n/a	-
*5-037-357-11	REFERENCE GUIDE	•	•	n/a	n/a	n/a	-
*5-048-119-11	REFERENCE GUIDE	n/a	n/a	•	•	•	-
*5-048-121-11	SETUP GUIDE	n/a	n/a	•	•	n/a	-
*5-048-124-11	SETUP GUIDE	n/a	n/a	n/a	n/a	•	-
*5-037-358-11	SETUP GUIDE	•	•	n/a	n/a	n/a	-
 1-005-642-12	C7L AC POWER CORD SETS (US)	•	•	•	•	•	-
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	•	•	•	•	-
5-009-861-02	VESA SPACER A (COM)	•	•	•	•	•	Screw extension for Fall Lock Belt and Wall Mount, Qty 1, refer setup Guide for details.

## SECTION 3: XR-77A80\*

### 3-1. DISASSEMBLY AND REMOVAL CAUTION

#### REAR COVER

1. Remove the screws from the rear cover (4 pcs)

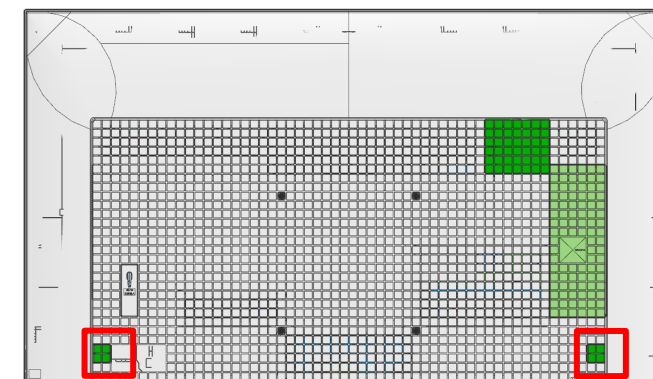


2. Remove the bottom cover.

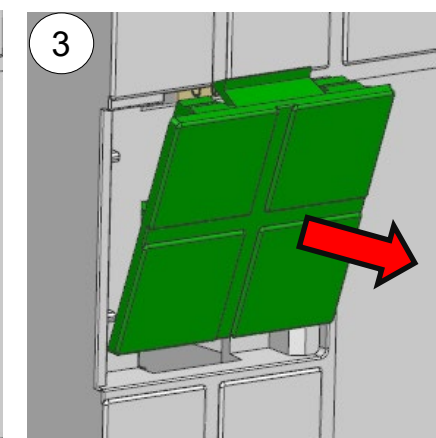
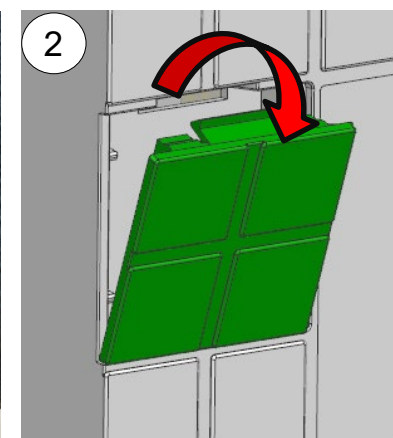
Washer or coin to unhook Cover Hook

\*Wrap washer in VA tape (15mm X 55mm)

\*Thickness approximately 1.5mm



- ① Put washer or coin in the slit of cover hook.
- ② Turn washer or coin to the direction of the arrow.
- ③ Remove cover hook.




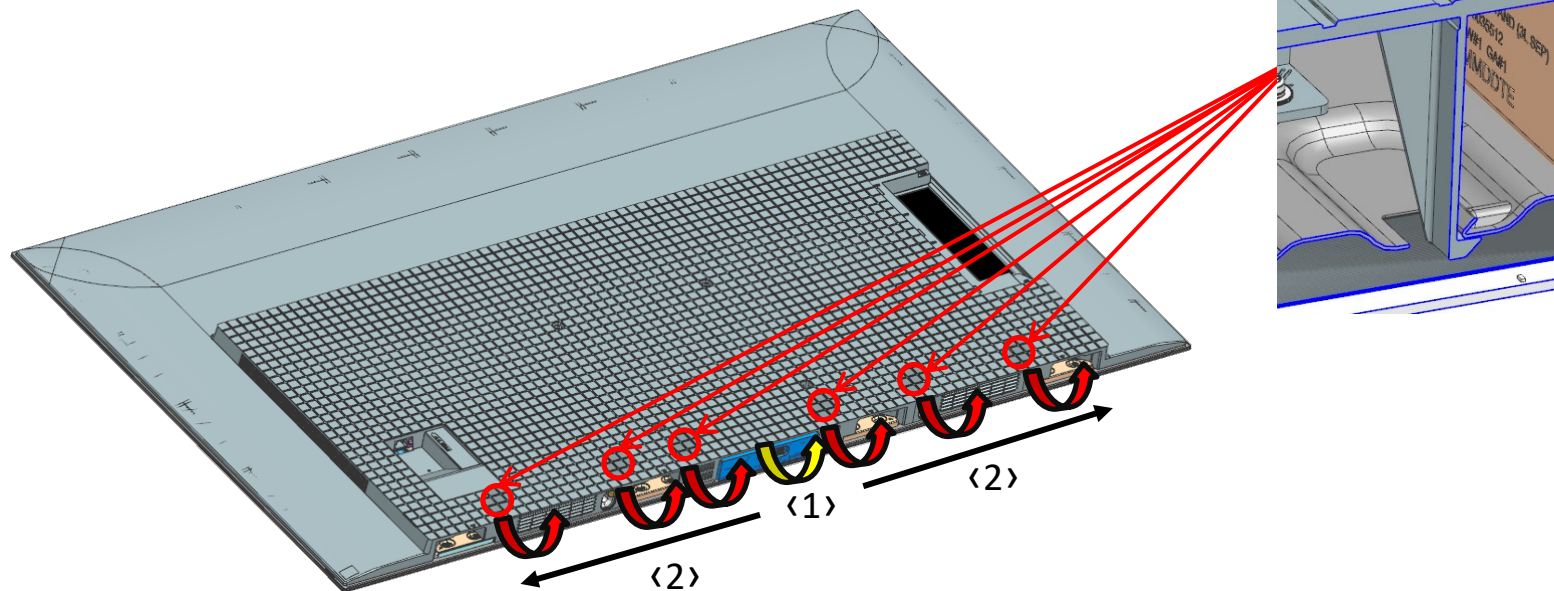
## SECTION 3: XR-77A80\*

## 3-1. DISASSEMBLY AND REMOVAL CAUTION

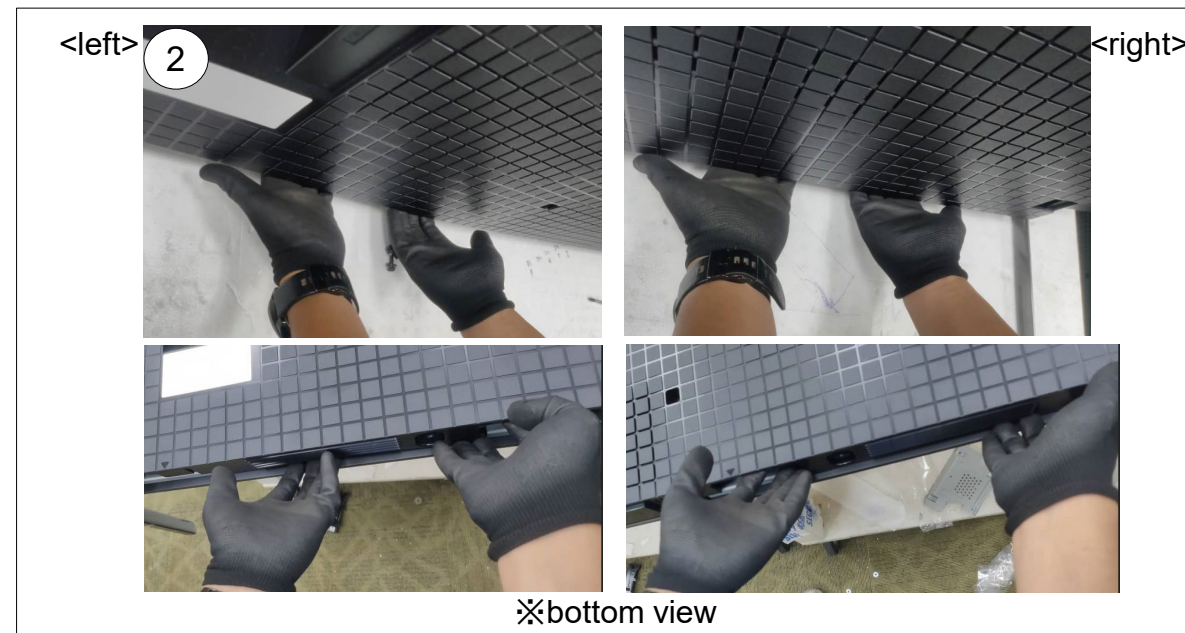
### REAR COVER

3. Unhook the bottom hook, starting from center.(6 hooks)

Legend  
 =bottom hook



- ① Pull rear cover bottom center until hook release sound is heard.
- ② Pull rear cover towards outside direction until hook release sound is heard.





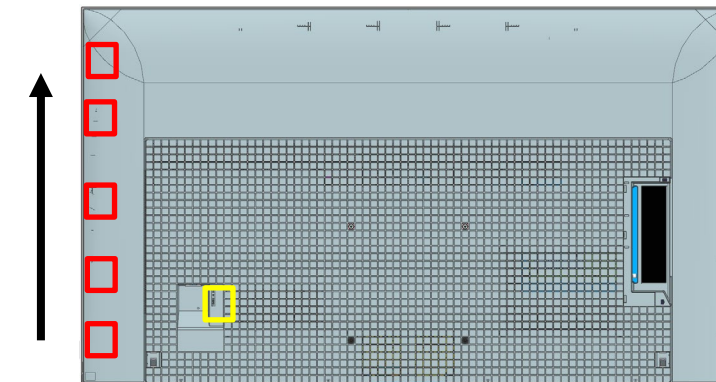
## SECTION 3: XR-77A80\*

### 3-1. DISASSEMBLY AND REMOVAL CAUTION

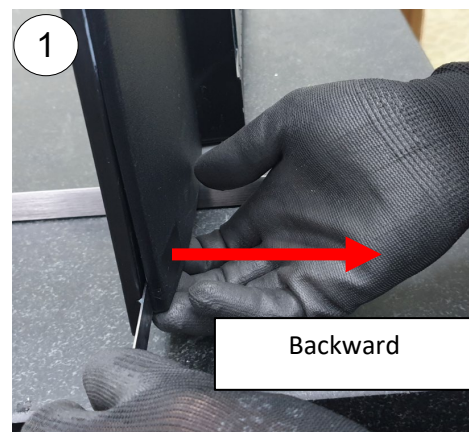
#### REAR COVER

4. Unhook the left side hooks. (5 hooks)

<p>Legend</p> <p> =outline hook</p> <p> =AC tml Hook</p>
--



- ① When releasing hook, pull the rear cover corner and insert jig
- ② Flex the rear cover outwards to release outline hook
- ③ Pull rear cover below the AC tml to release the AC tml hook



Ruler or jig to release corner hook  
 \*Wrap ruler with tape to prevent scratch



## SECTION 3: XR-77A80\*

### 3-1. DISASSEMBLY AND REMOVAL CAUTION

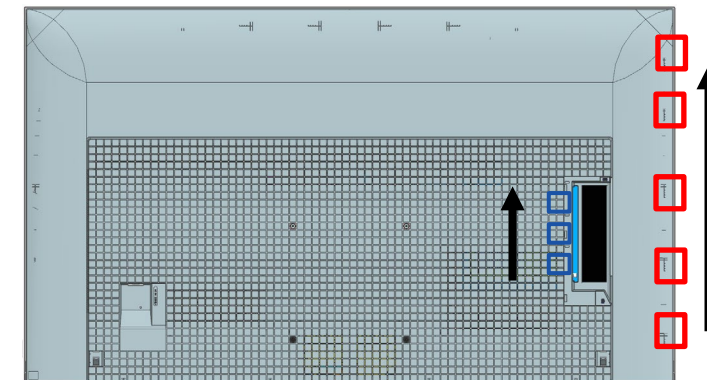
#### REAR COVER

5. Unhook the right-side hooks. (5 hooks)

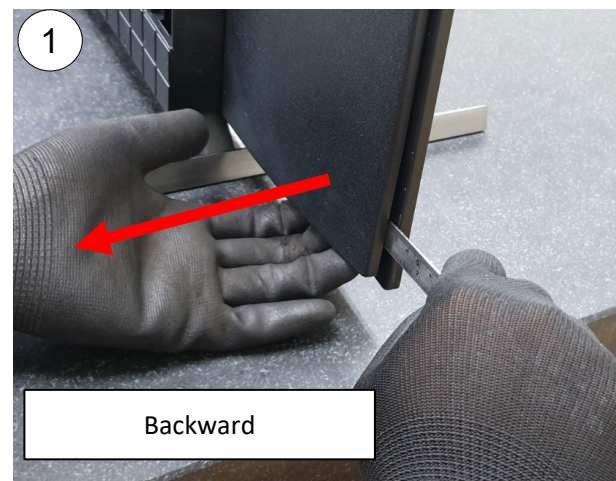
Legend

 =outline hook

 =Side Jack Bottom Hook (3 hooks)



- ① When releasing hook, pull the rear cover and insert jig
- ② Flex the rear cover outwards to release outline hook
- ③ Pull rear cover below the side jack to release the side jack bottom hook.



Ruler or jig to release corner hook  
 \*Wrap ruler with tape to prevent scratch





## SECTION 3: XR-77A80\*

### 3-1. DISASSEMBLY AND REMOVAL CAUTION

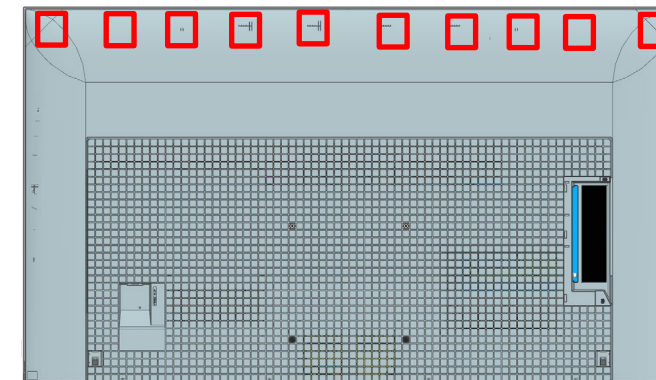
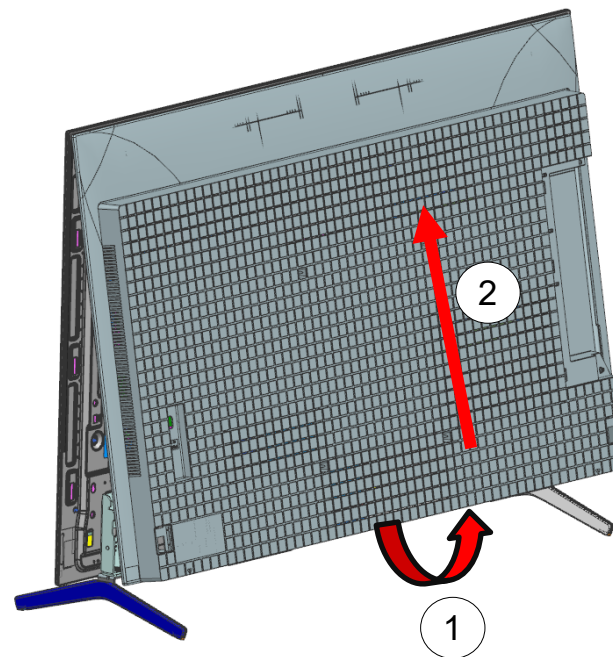
#### REAR COVER

6. Unhook the top row hooks. (10 hooks)

Legend

=outline hook

- ① Tilt the rear cover and push upwards on the left/right side.
- ② Lift the rear cover off from the center

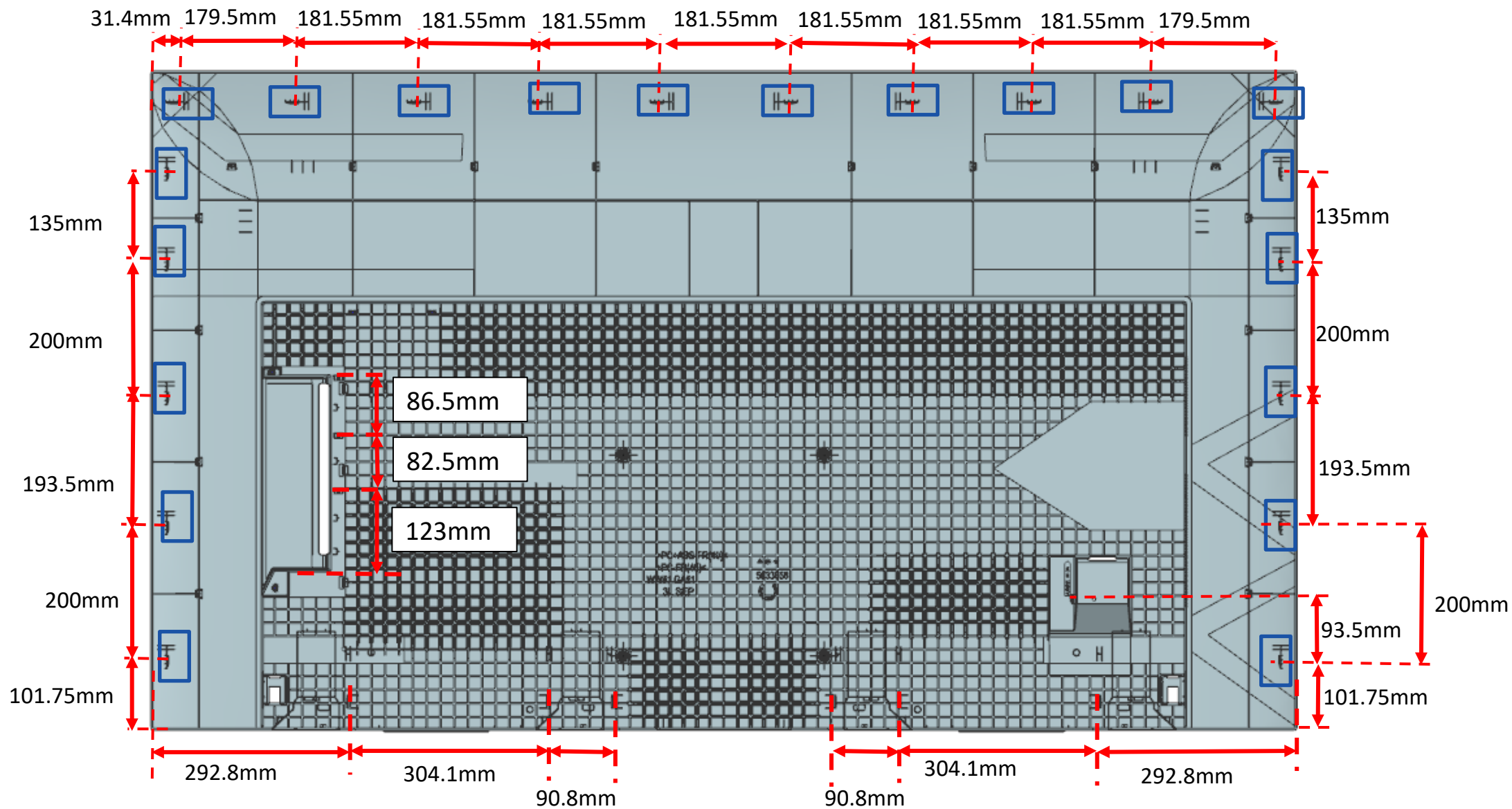


### SECTION 3: XR-77A80\*

### 3-1. DISASSEMBLY AND REMOVAL CAUTION

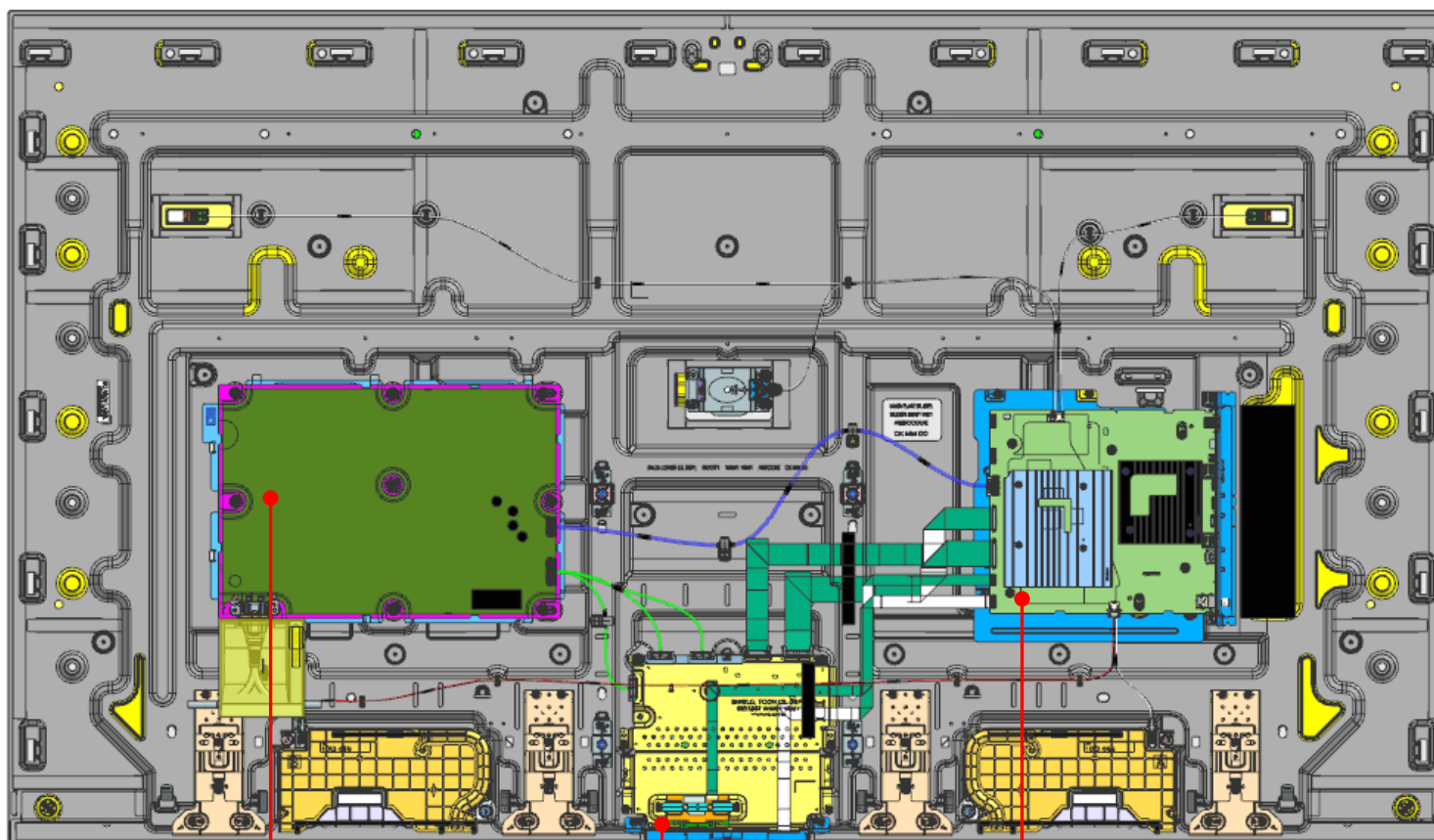
#### REAR COVER

Hook positioning.



### SECTION 3: XR-77A80\*

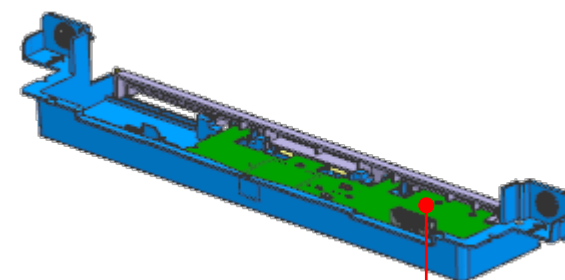
### 3-2. BOARD LOCATION



POWER BOARD

WI-FI BOARD

MAIN BOARD



RECEIVER BOARD

## SECTION 3: XR-77A80\*

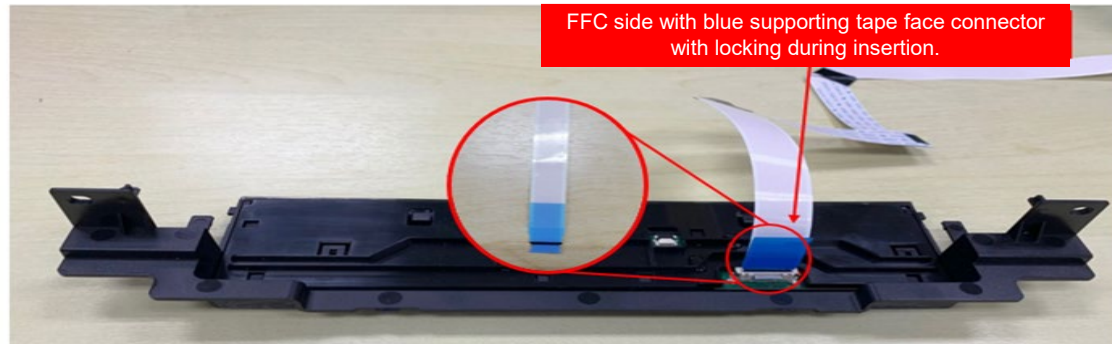
## 3-3. WIRE DRESSING

## INFORMATION

## Caution:

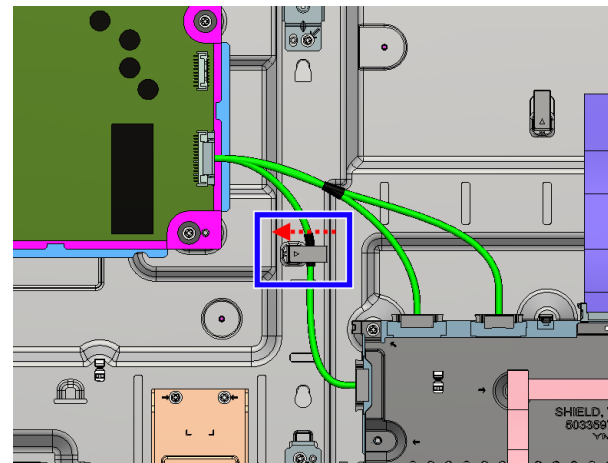
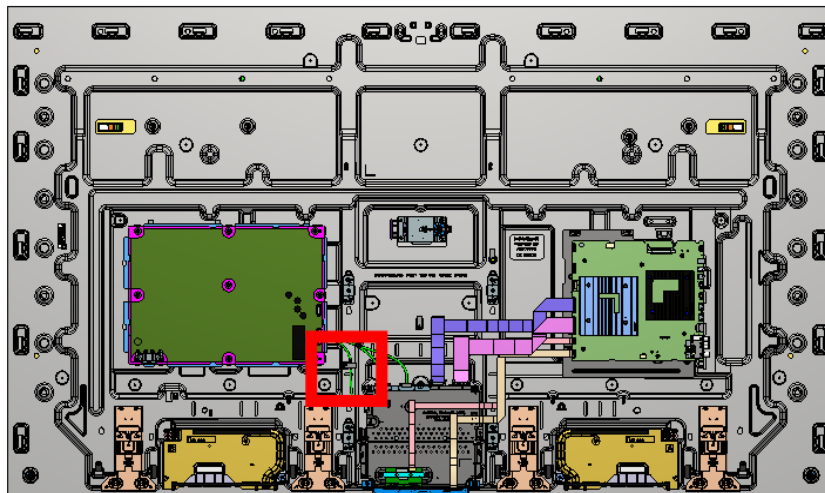
1. Operator need to fix Smart Core on FLAT surface before FFC insertion to ensure FFC STRAIGHT insertion.
2. FFC side with blue supporting tape, must face CONNECTOR WITH LOCKING during FFC insertion.

After assemble Receiver board to Smart Core, operator need to insert Receiver board FFC in straight condition.



Smart Core is placed on FLAT surface during FFC insertion.

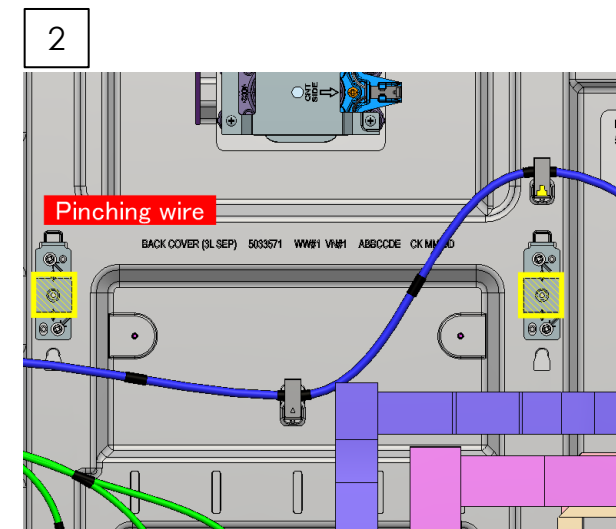
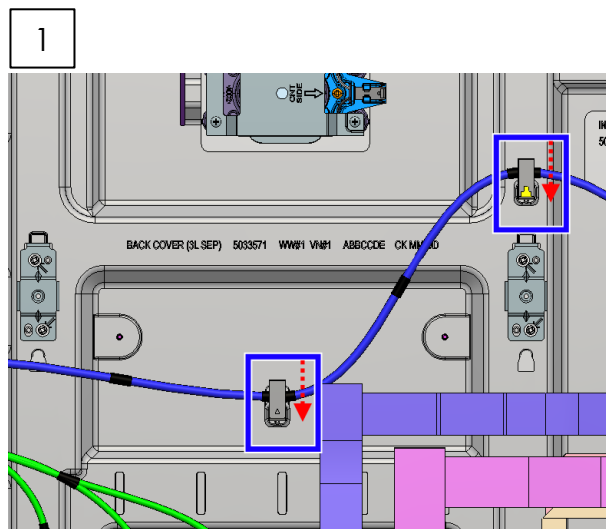
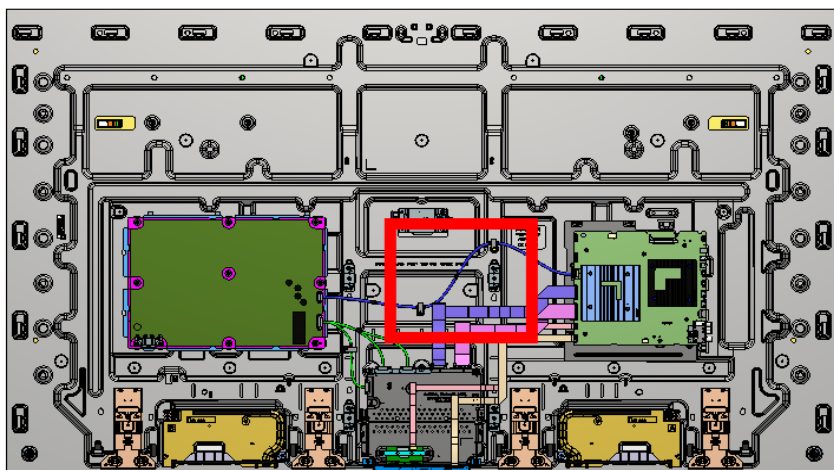
## WIRE DRESSING



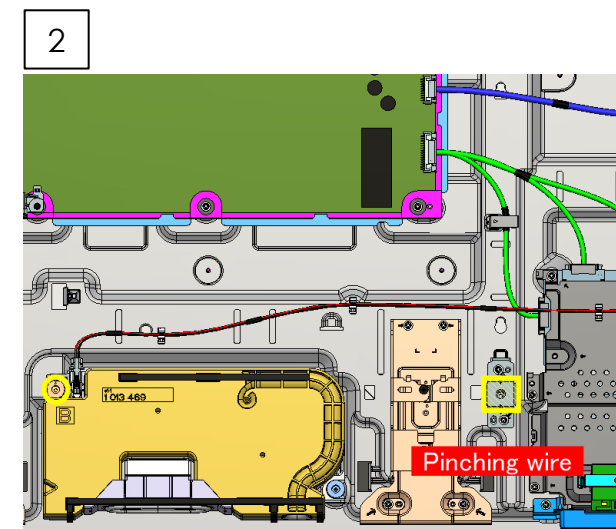
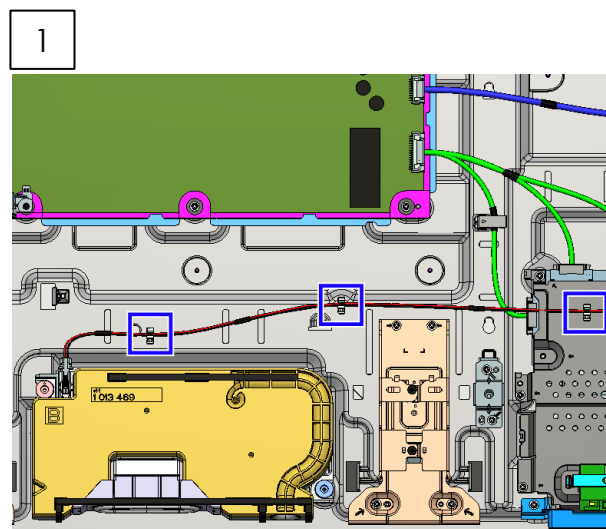
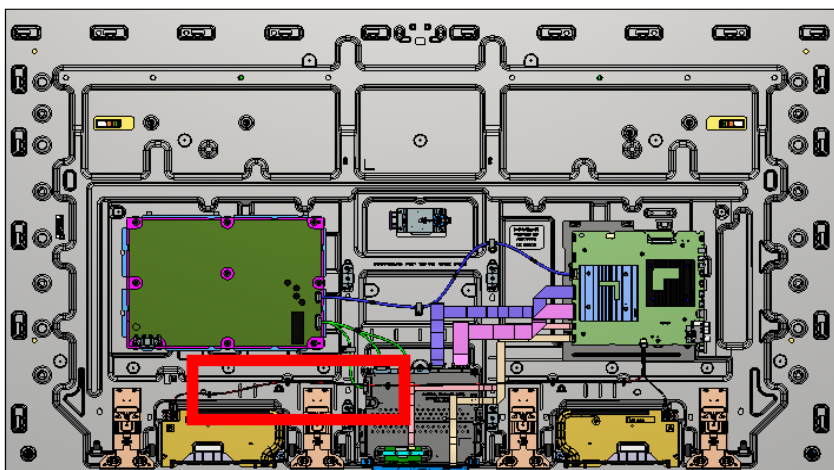
# SECTION 3: XR-77A80\*

# 3-3. WIRE DRESSING

## WIRE DRESSING



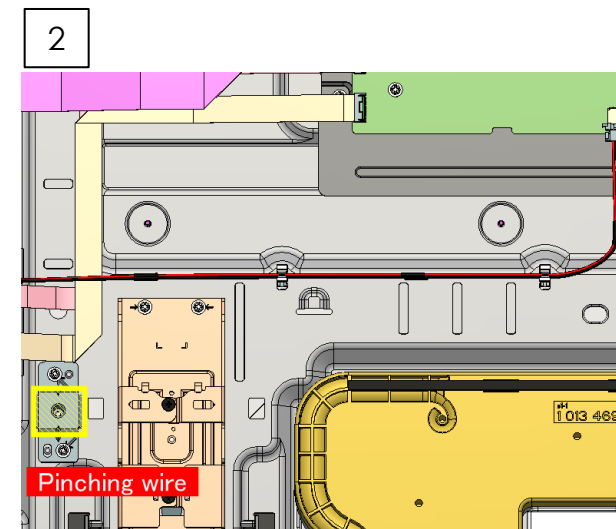
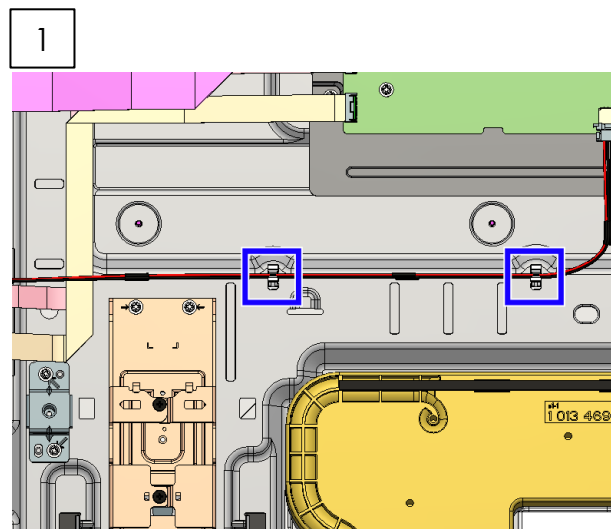
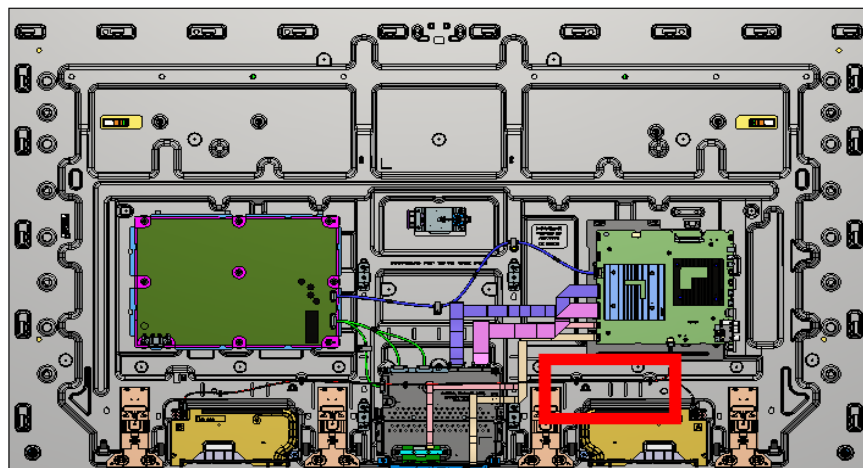
## WIRE DRESSING



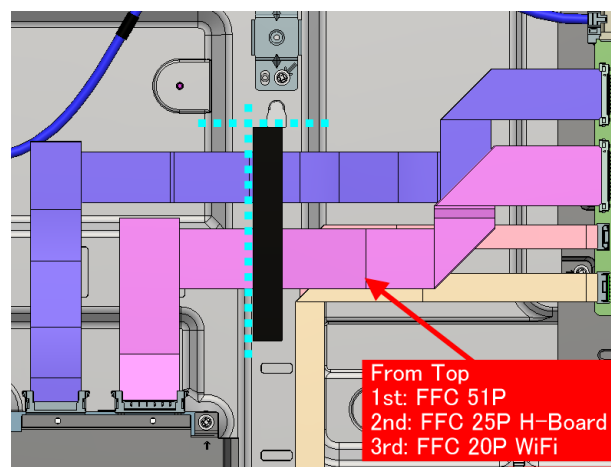
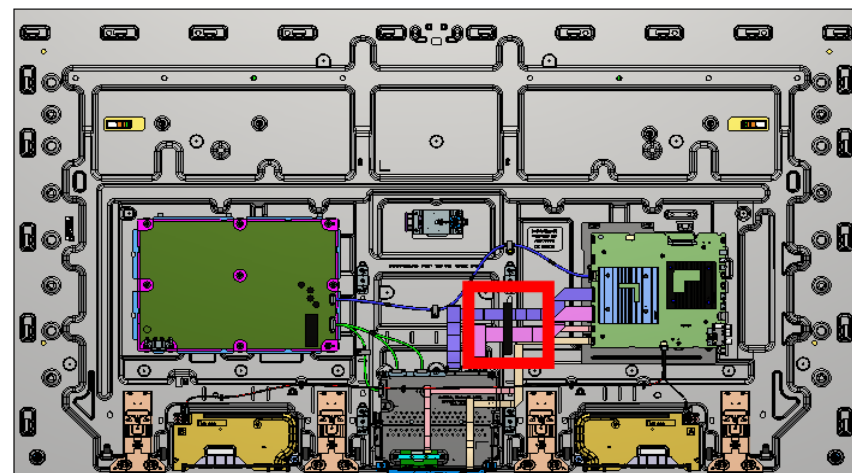
# SECTION 3: XR-77A80\*

# 3-3. WIRE DRESSING

## WIRE DRESSING



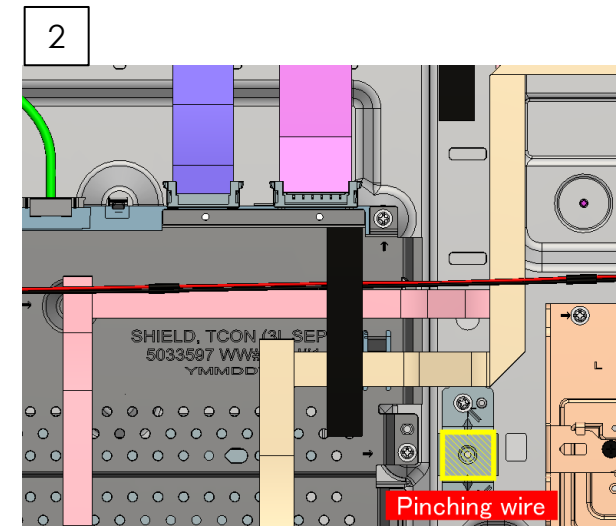
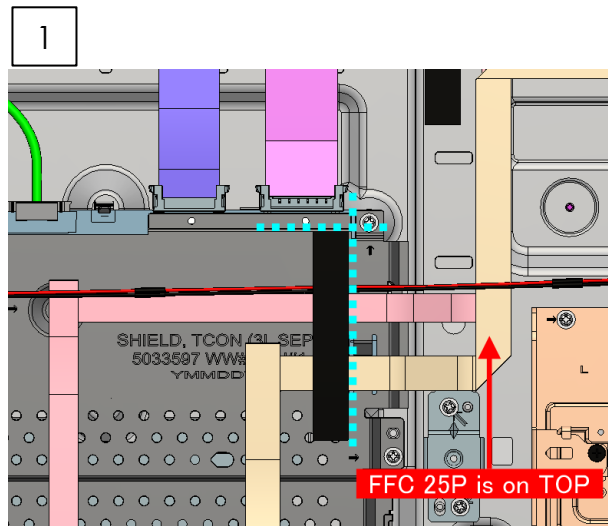
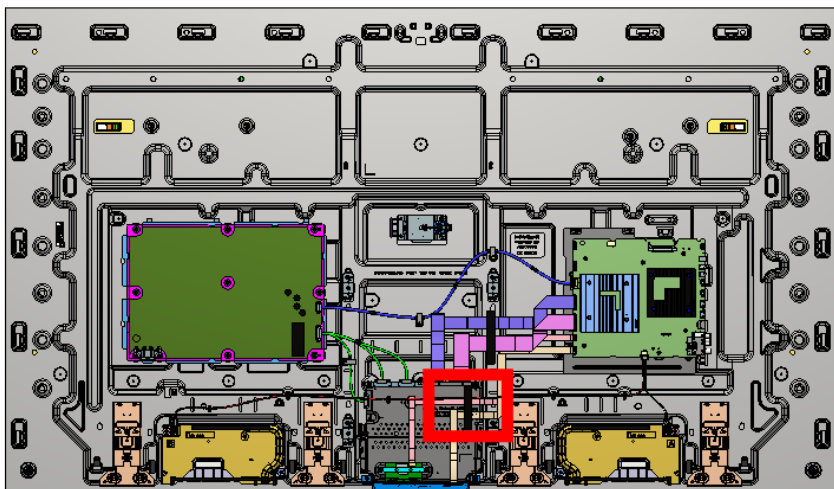
## TAPE



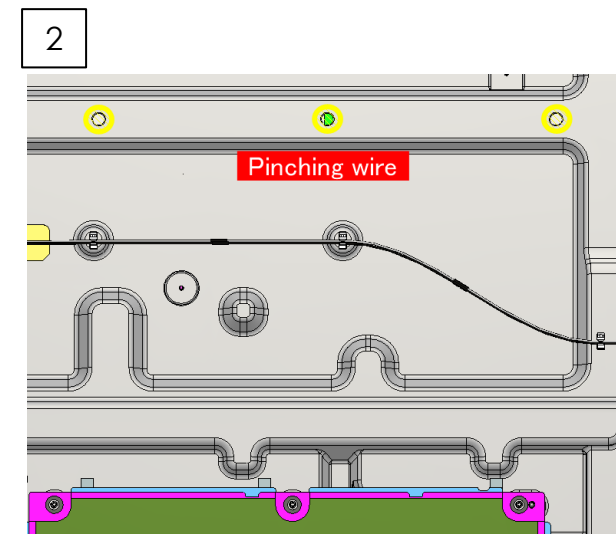
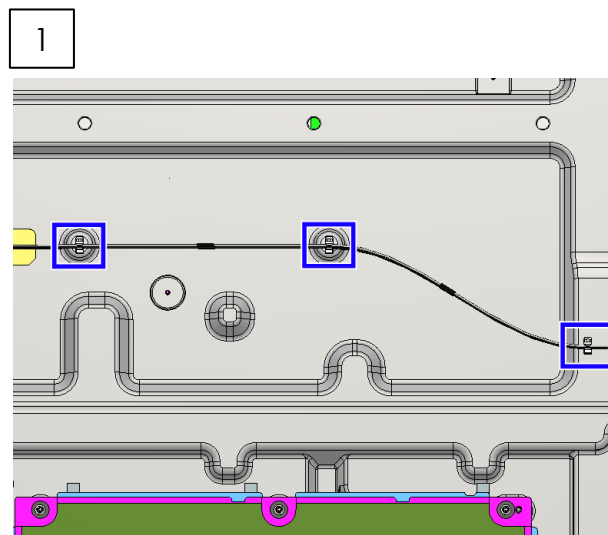
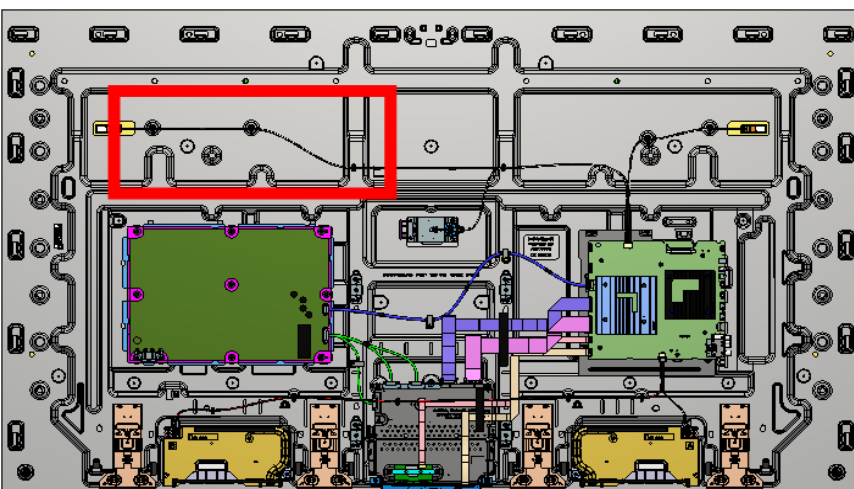
# SECTION 3: XR-77A80\*

# 3-3. WIRE DRESSING

## TAPE



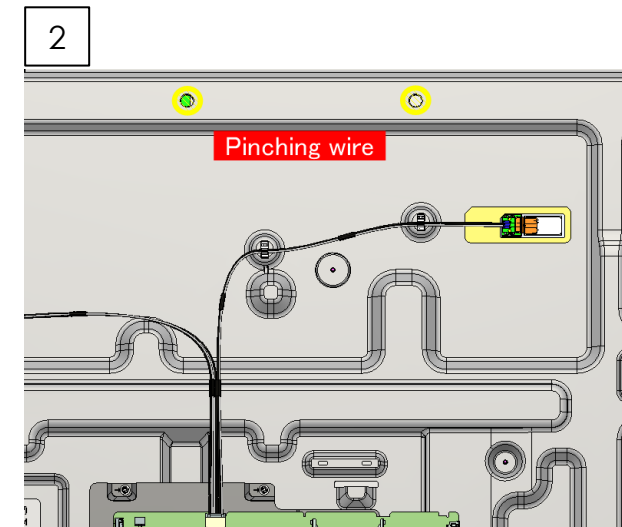
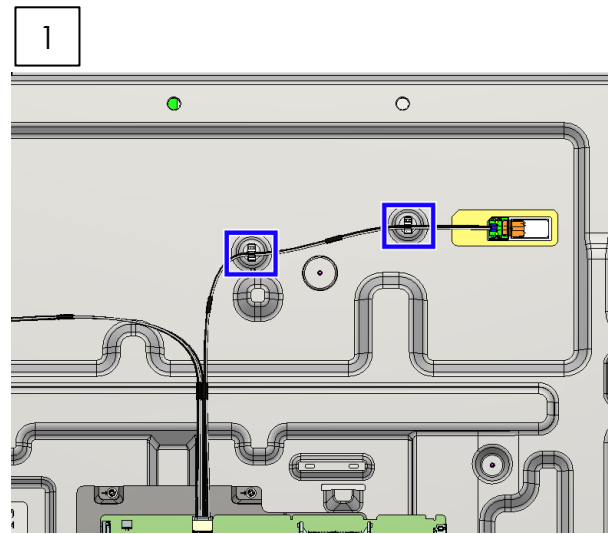
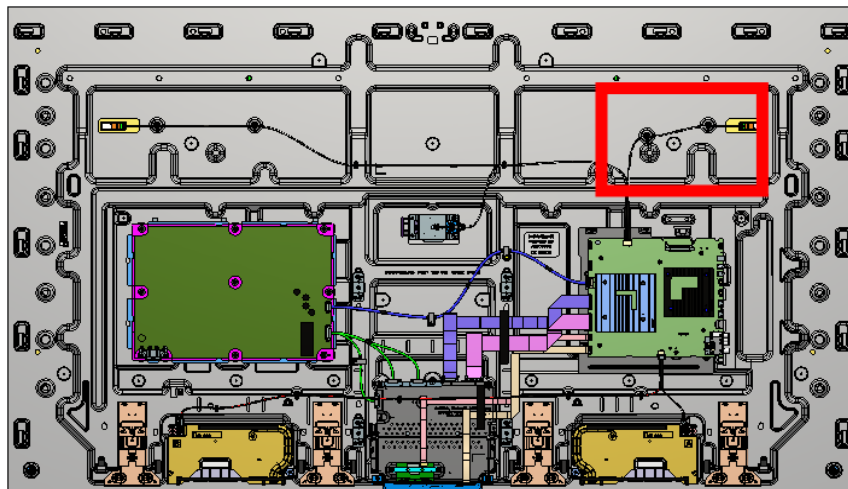
## WIRE DRESSING



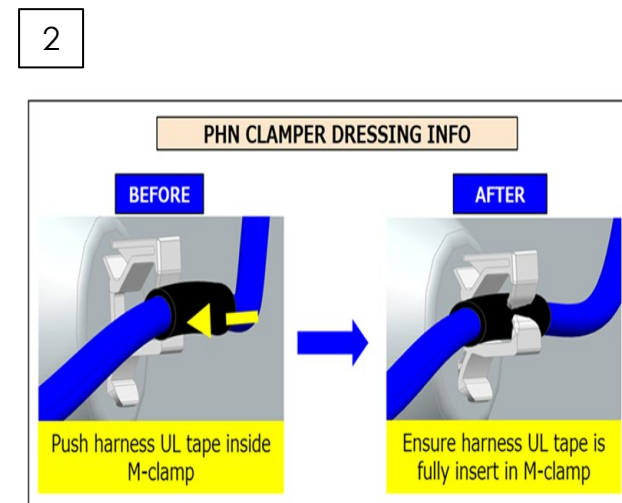
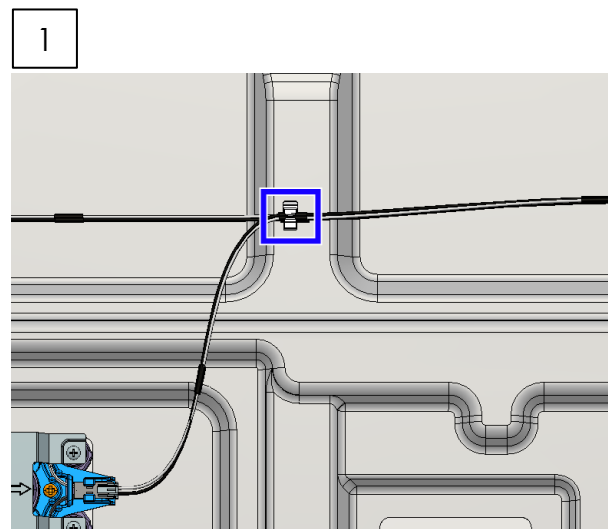
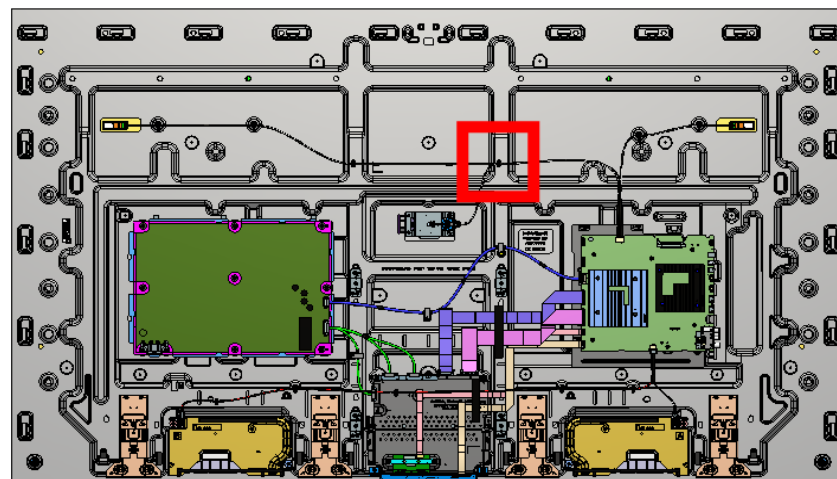
### SECTION 3: XR-77A80\*

### 3-3. WIRE DRESSING

#### WIRE CROSSING



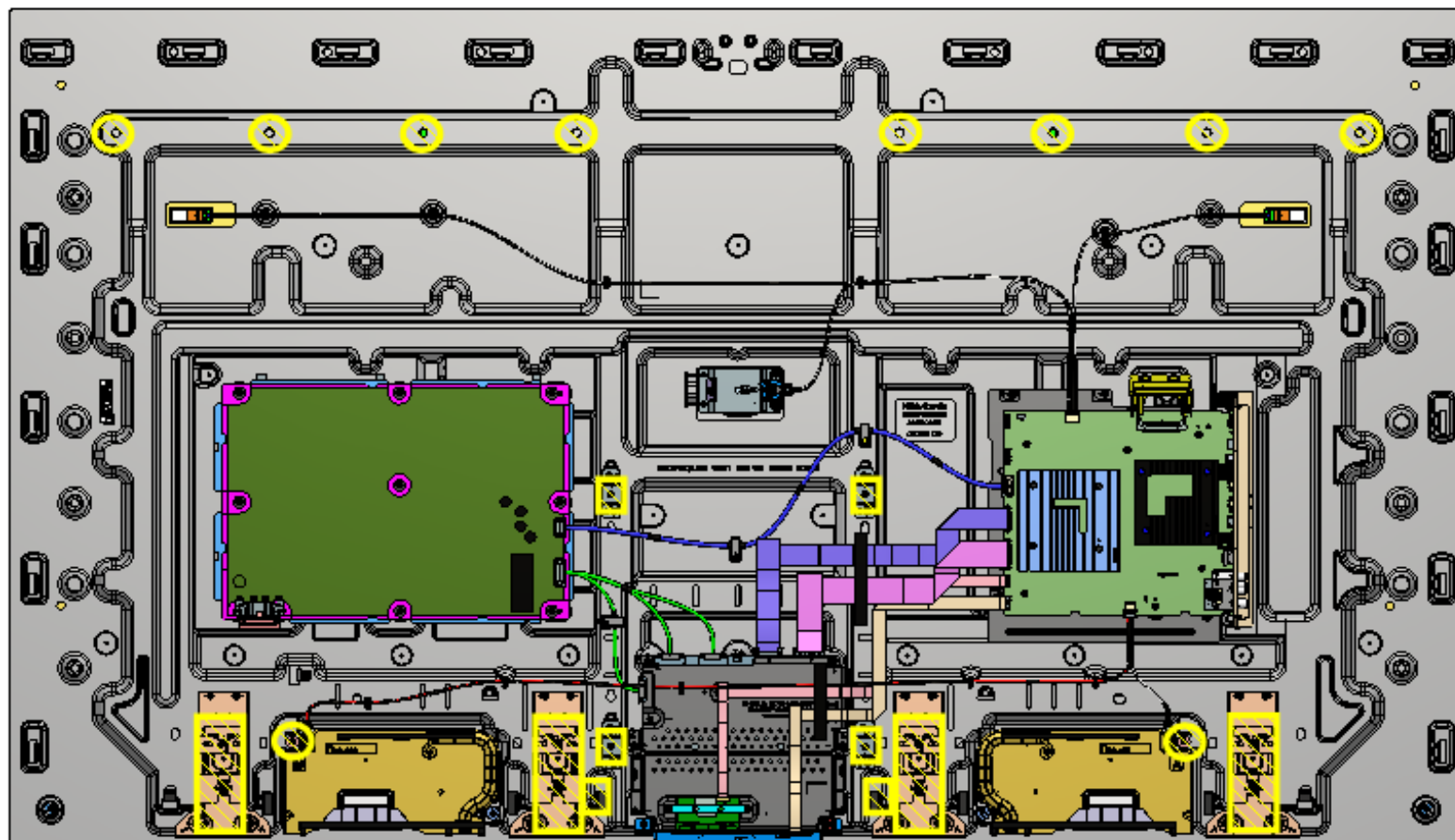
#### WIRE DRESSING







**SECTION 3: XR-77A80\*****3-3. WIRE DRESSING**INFORMATION

Keep harness away from inhibit area.

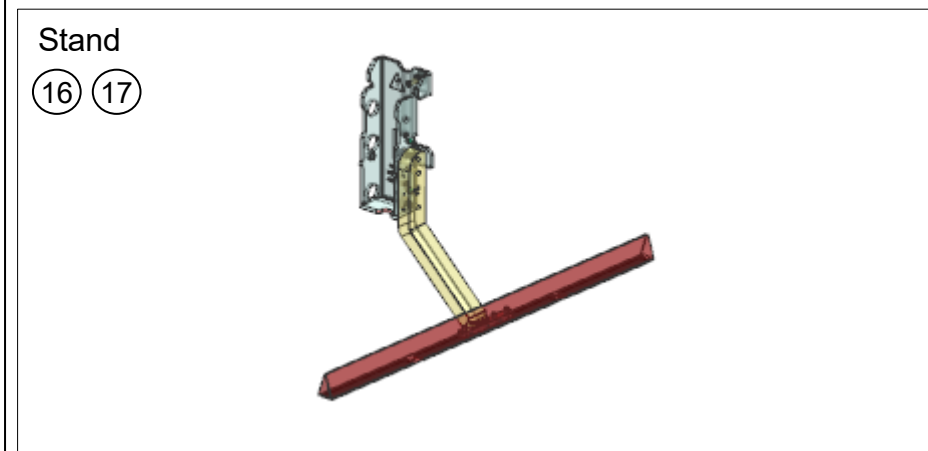
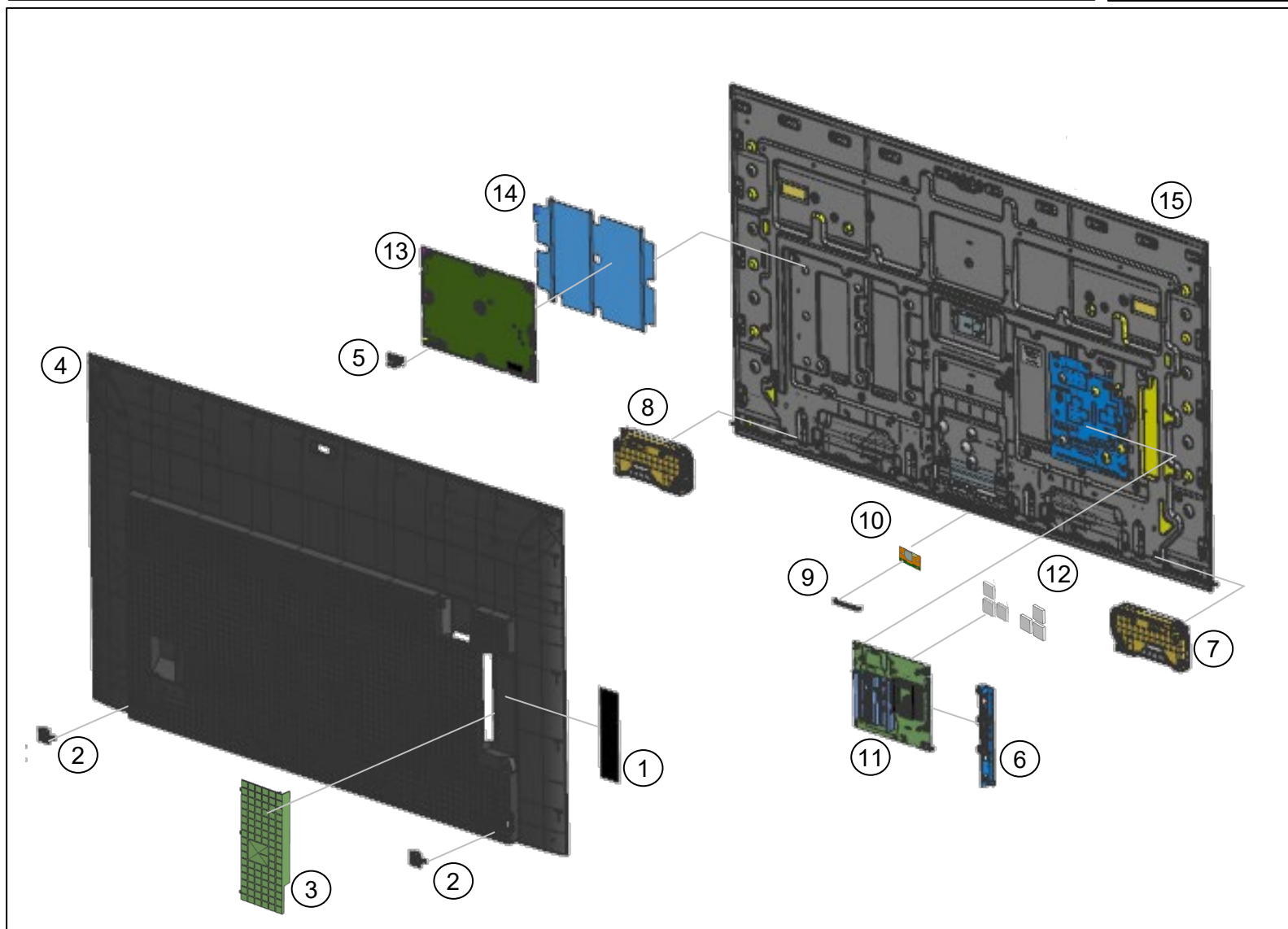


## SECTION 3: XR-77A80\*

## 3-4. EXPLODED VIEW AND PART LIST

- 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: XR-77A80\*

## 3-4. EXPLODED VIEW AND PART LIST

## SET PART LIST

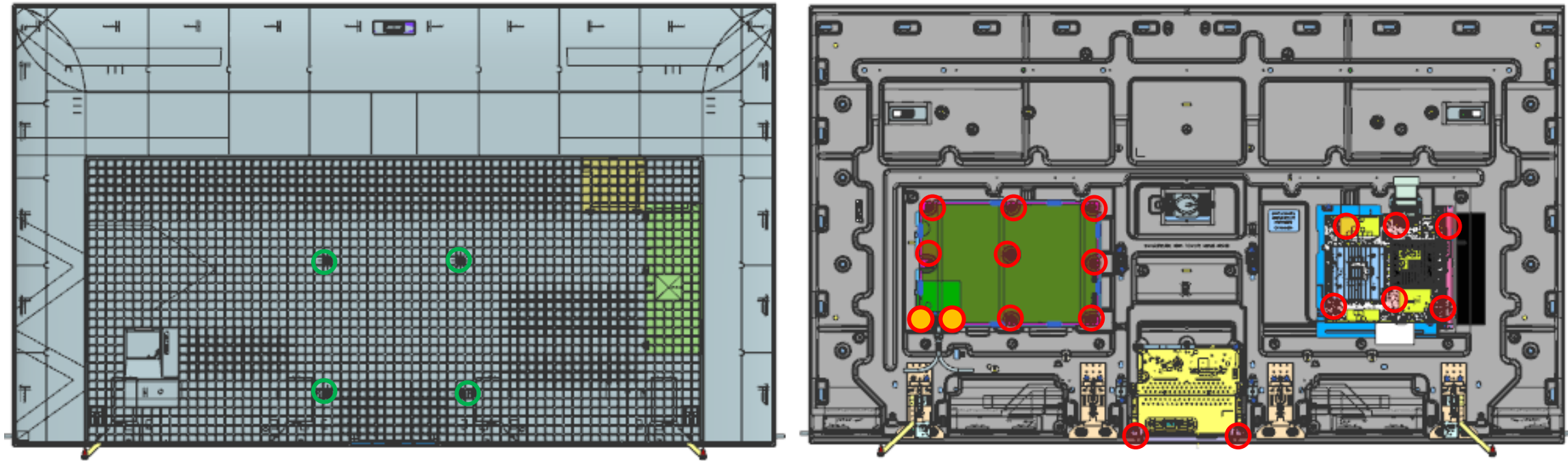
REF. NO	PART NO.	DESCRIPTION	XR-77A80K	XR-77A80CK	XR-77A80L	XR-77A80CL
			UCM	UC2	UCM	UC2
1	5-039-876-01	LABEL, SIDE TERMINAL HP (TGR)	•	•	n/a	n/a
2	5-033-671-01	BTM COVER BARE (COM SEP)	•	•	•	•
3	5-033-669-01	TERMINAL COVER (COM SEP)	•	•	•	•
 4	5-036-379-04	REAR COVER (3L SEP) A	•	•	•	•
5	5-023-743-01	BRACKET, AC INLET (C18)	•	•	•	•
6	5-039-955-11	BRACKET SIDE (BNN) A	•	•	•	•
7	1-013-469-11	SP-BOX ASSY,FY22 W40L-A	•	•	•	•
8	1-013-469-21	SP-BOX ASSY,FY22 W40L-B	•	•	•	•
9	5-009-258-22	BRACKET, WIFI(BNN)	•	•	•	•
 10	1-005-419-14	WLAN/BT MODULE(11AC)	•	•	•	•
 11	A-5042-836-A	COMPL_SVC_BM5STY_UC_FS_77	•	•	n/a	n/a
 11	A-5056-937-A	COMPL_SVC_BM5STY_FS2_77_UCM	n/a	n/a	•	•
12	4-457-451-12	SHEET, THERMAL (BAF)	•	•	•	•
 13	1-013-510-11	G26-STATIC CONVERTER (TV)	•	•	n/a	n/a
 13	1-013-510-21	G26C-STATIC CONVERTER (TV)	n/a	n/a	•	•
 14	5-035-921-11	SHEET, INSULATION (3L SEP) A	•	•	•	•
 15	A-5044-489-A	P-MOD (YDCM077UNG13)(SVC)	•	n/a	n/a	n/a
 15	A-5058-198-A	P-MOD (YDCM077UNG13)(SVC)	n/a	n/a	•	n/a
16	5-034-385-02	STAND L (3L SEP) A	•	•	•	•
17	5-034-386-02	STAND R (3L SEP) A	•	•	•	•

Caution : When replacing the power supply board, please reuse BRACKET, AC INLET (C18).

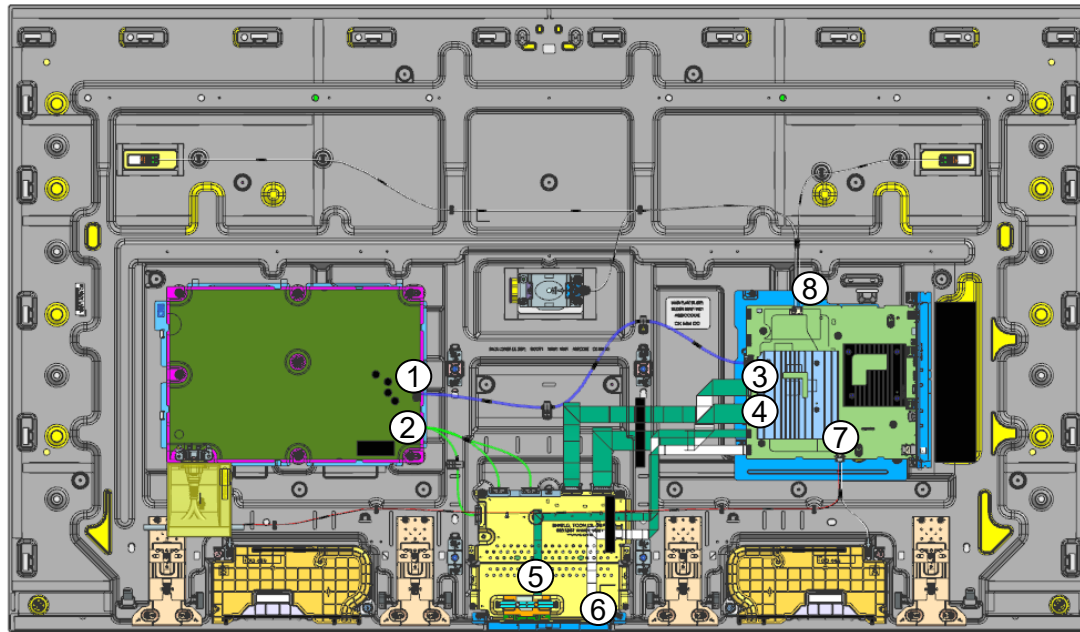
## SECTION 3: XR-77A80\*

## 3-4. EXPLODED VIEW AND PART LIST

## SCREW




REMARKS	P/N	DESCRIPTION	QTY	TORQUE (N.m)
○	4-472-518-11	SCREW, +PSW M3X6	16	0.4 ± 0.05
●	7-682-948-09	SCREW, +PSW 3X8	2	0.4 ± 0.05
○	5-015-521-01	+PSW M6*16 W14	4	1.2 ± 0.1

**SECTION 3: XR-77A80\*****3-4. EXPLODED VIEW AND PART LIST****CONNECTOR**

REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-014-674-11	CONNECTOR ASSY 20P	CN6401(G26)-CN1700(BM5STY)(1)
2	1-014-675-11	CONNECTOR ASSY 30P	CN6601(G26)-CN6(TCON)-CN8(TCON)-CN14(TCON)(1)
3	1-014-682-11	FLEXIBLE FLAT CABLE 41P	CN4201(BM5STY)-CN7(TCON)(1)
4	1-014-684-11	FLEXIBLE FLAT CABLE 51P	CN4200(BM5STY)-CN5(TCON)(1)
5	1-014-676-11	FLEXIBLE FLAT CABLE 20P	CN3801(BM5STY)-J1(WIFI/BT)(1)
6	1-014-678-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5STY)-CN102(HY1)(1)
7	1-014-672-11	CONNECTOR ASSY 4P (SP)	CN6600(BM5STY)-SP(1)
8	1-014-673-11	CONNECTOR ASSY 6P	CN6601(BM5STY)-PZ-EXCITER(1)

**SECTION 3: XR-77A80\*****3-4. EXPLODED VIEW AND PART LIST****OTHER PARTS**

PART NO.	DESCRIPTION	XR-77A80K	XR-77A80CK	XR-77A80L	XR-77A80CL	REMARKS
		UCM	UC2	UCM	UC2	
4-535-064-62	ASSY,FALL LOCK,BELT LL	•	•	•	•	-
5-009-031-02	CLAMPER,CABLE S(BNN)	•	•	•	•	-
1-013-691-23	REMOTE COMMANDER (RMF-TX800U)	•	n/a	n/a	n/a	-
1-013-685-22	REMOTE COMMANDER (RMF-TX900U)	n/a	•	n/a	n/a	-
1-016-940-21	REMOTE COMMANDER (RMF-TX810U)	n/a	n/a	•	n/a	-
1-016-949-21	REMOTE COMMANDER (RMF-TX910U)	n/a	n/a	n/a	•	-
*5-037-357-11	REFERENCE GUIDE	•	•	n/a	n/a	-
*5-048-119-11	REFERENCE GUIDE	n/a	n/a	•	•	-
*5-048-122-11	SETUP GUIDE	n/a	n/a	•	•	-
*5-040-671-11	SETUP GUIDE	•	•	n/a	n/a	-
 1-836-883-13	POWER-SUPPLY CORD	•	•	•	•	-
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	•	•	•	-
5-009-861-02	VESA SPACER A (COM)	•	•	•	•	Screw extension for Fall Lock Belt and Wall Mount, Qty 1, refer setup Guide for details.



## SECTION 4: XR-83A80\*

### 4-1. DISASSEMBLY AND REMOVAL CAUTION


#### Rear Cover

##### 1. Release Screw

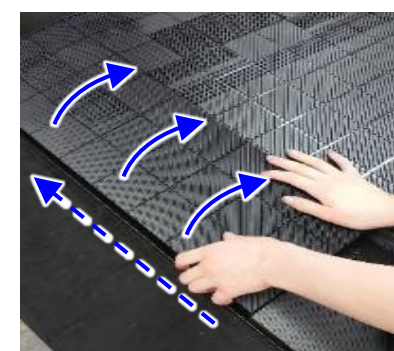
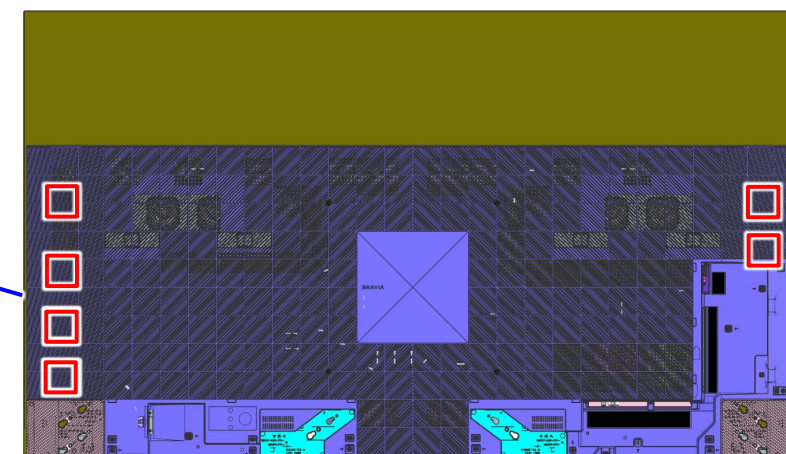
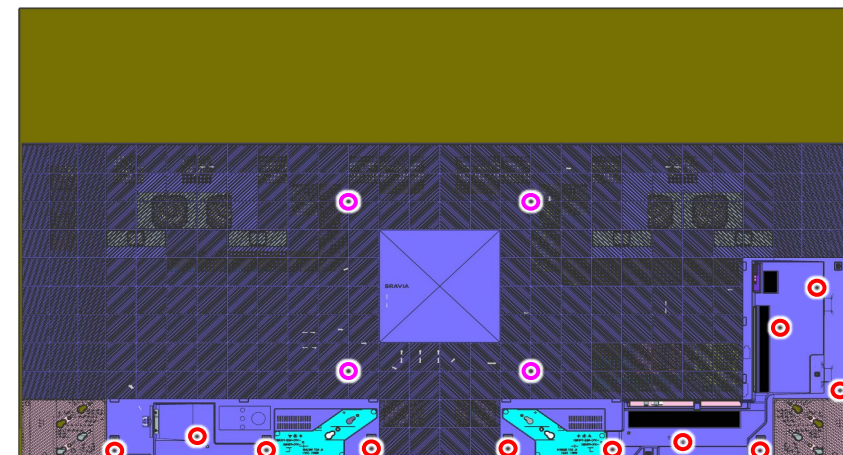
Take out screws below to open the rear cover :

-  SCREW M3X3.0 STEP (11pcs)
-  SCREW, ORNAMENTAL M6X12 (4pcs)

##### 2. Release Side Hook

-  Location of hook and the quantity is 6pcs

- Note : Using Metal Shaft is **NG** when open the side hook ! Example like screwdriver




## SECTION 4: XR-83A80\*

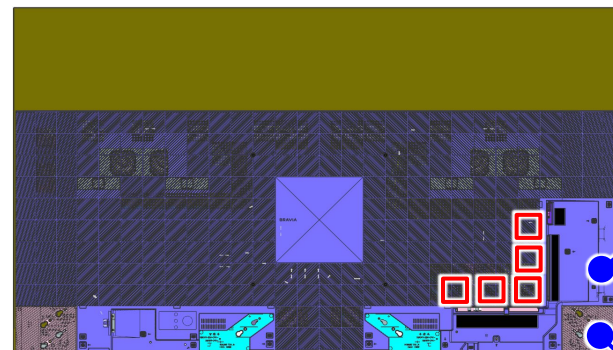
### 4-1. DISASSEMBLY AND REMOVAL CAUTION

#### Rear Cover

#### 3. Release Bracket Hook


Take out screws below to release the bracket hook:

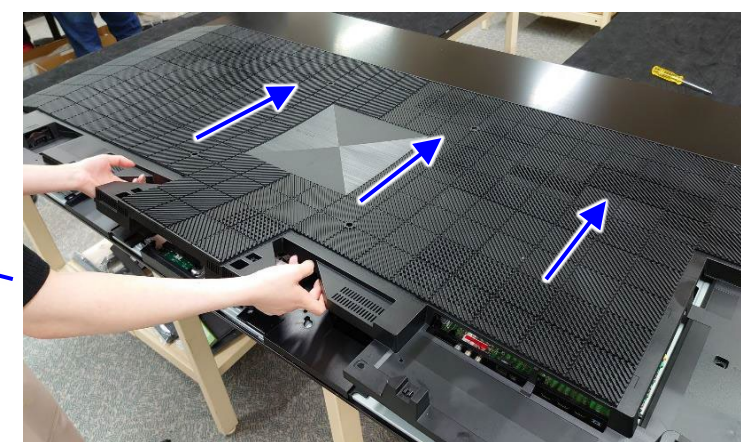
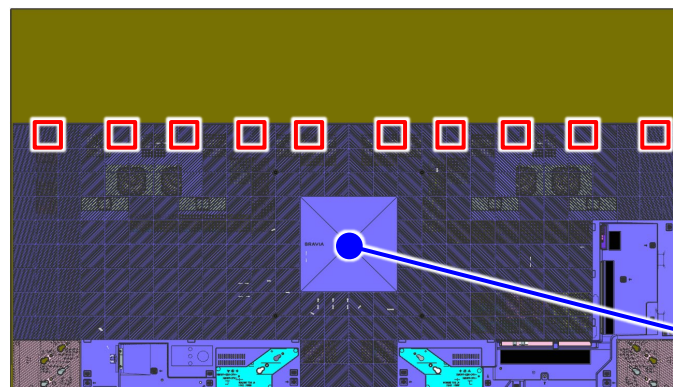
 Location of hook and the quantity is 5pcs



#### 4. Release Top Hook

When TV is in a rest condition

 Location of hook and the quantity is 10pcs






## SECTION 4: XR-83A80\*

## 4-1. DISASSEMBLY AND REMOVAL CAUTION


## Rear Cover

## 4. Release Top Hook

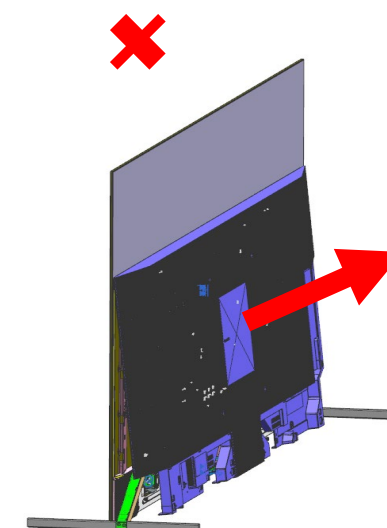
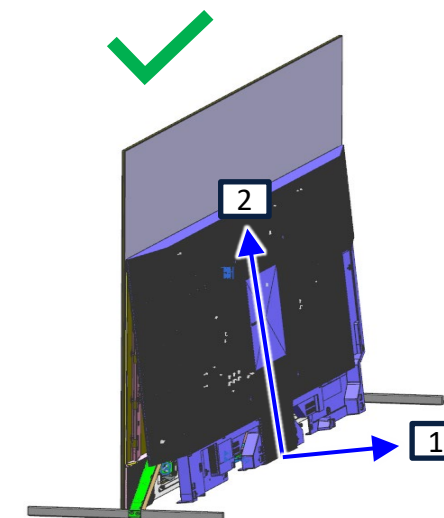
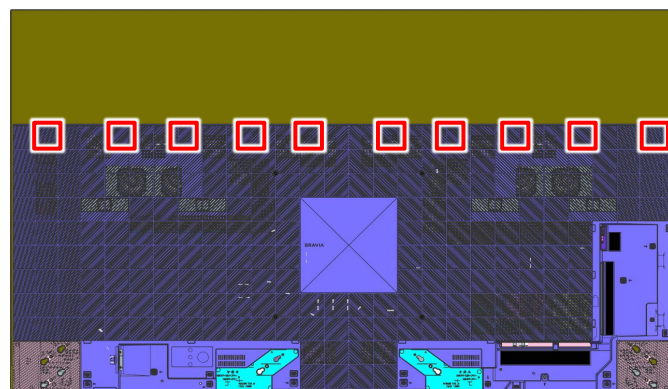
When TV is standing

 Location of hook and the quantity is 10pcs

-  1) Pull Rear Cover.  
2) Push Rear Cover upwards to release top hooks.

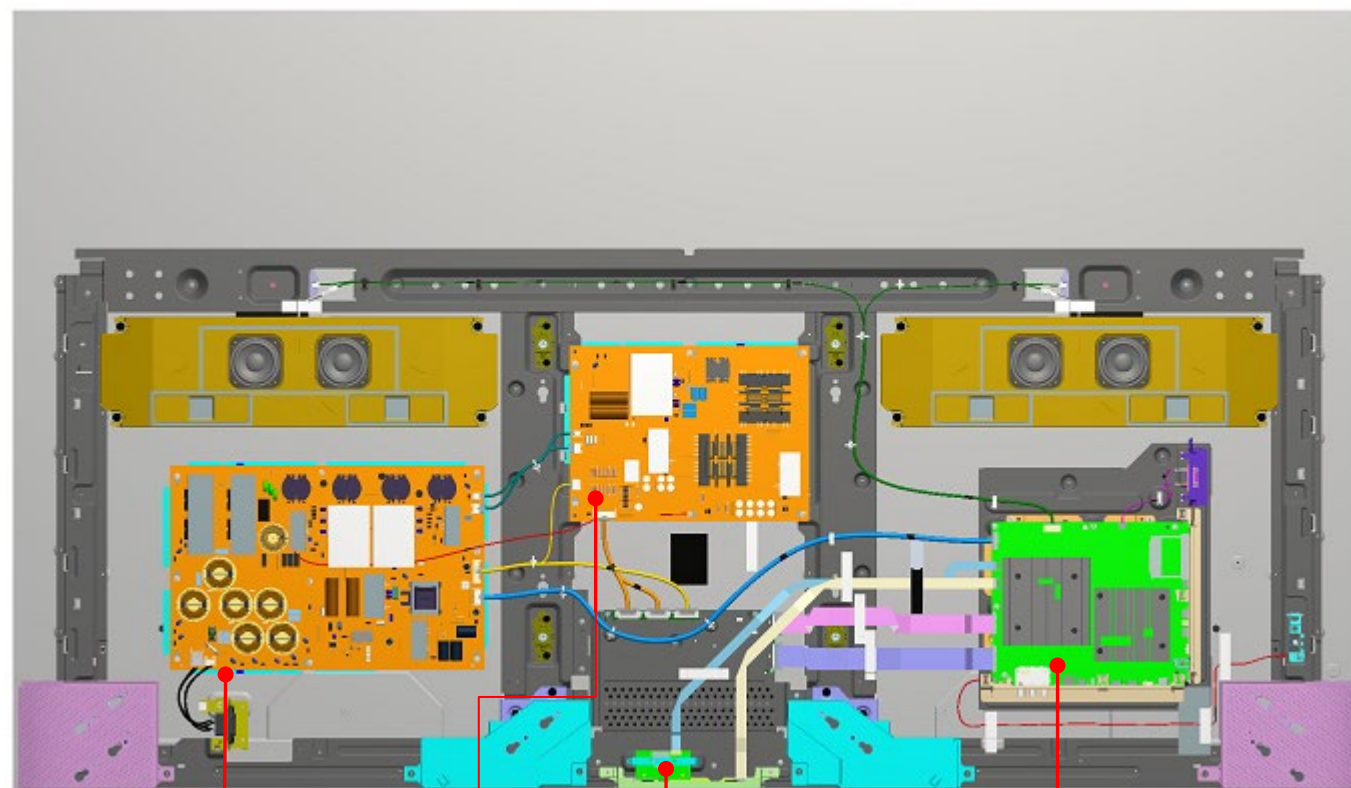
 Pull Rear Cover to back side to remove.  
(TOP HOOK will break)

Note : Support Panel by large size Cushion for front surface supporting (in order NOT to concentrate pushing force to display: Prevention of Front surface damage)



## SECTION 4: XR-83A80\*

## 4-2. BOARD LOCATION

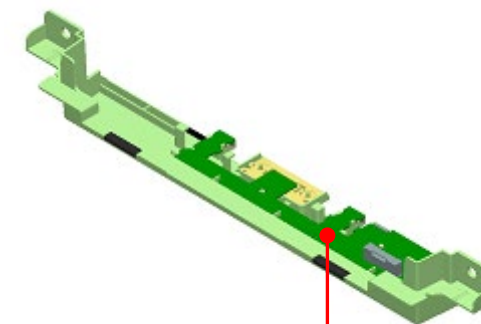


POWER BOARD G18

POWER BOARD G19

WLAN BOARD

MAIN BOARD

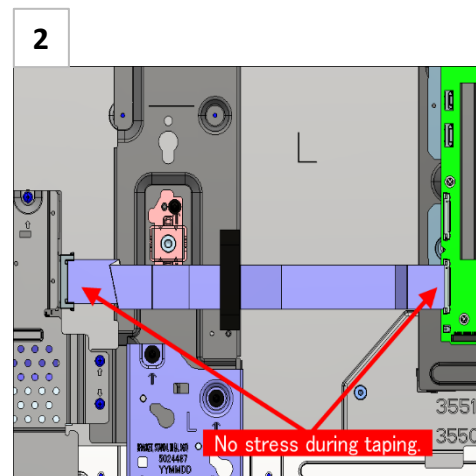
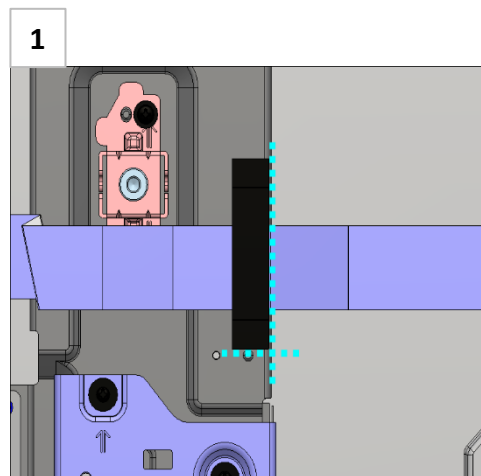
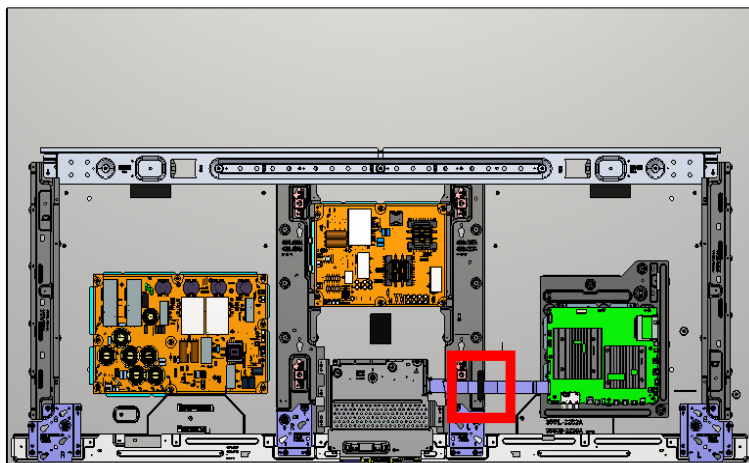


RECEIVER BOARD

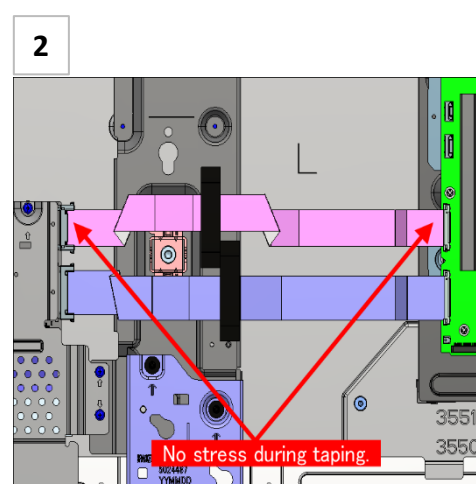
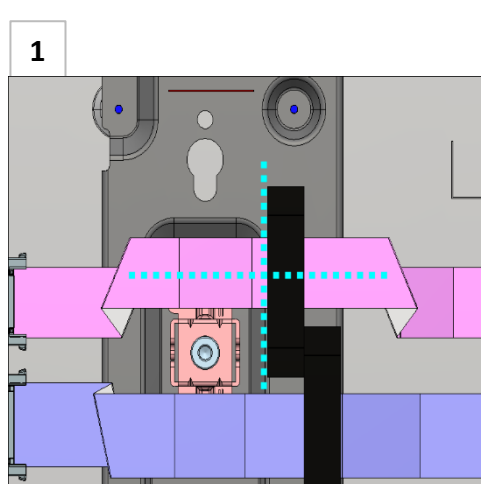
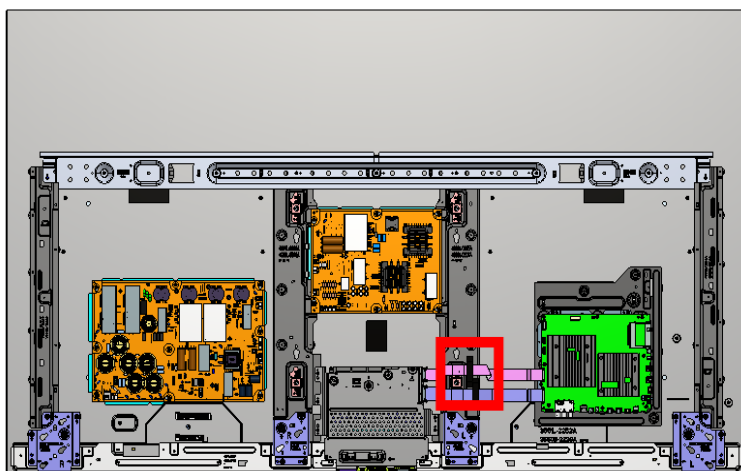
# SECTION 4: XR-83A80\*

# 4-3. WIRE DRESSING

## Tape



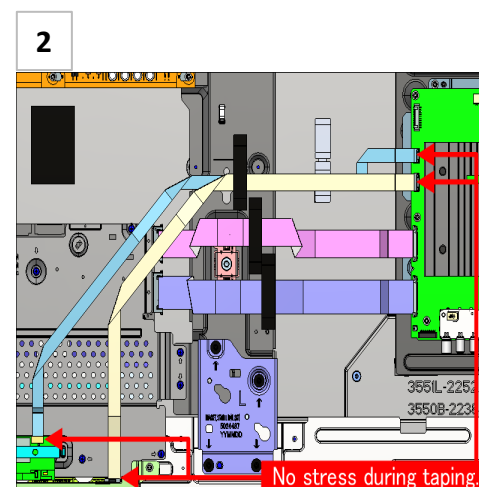
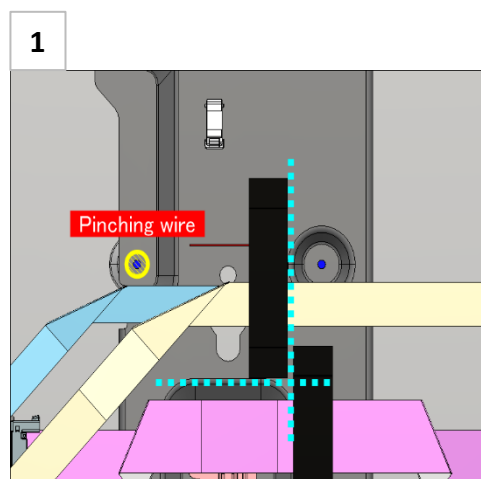
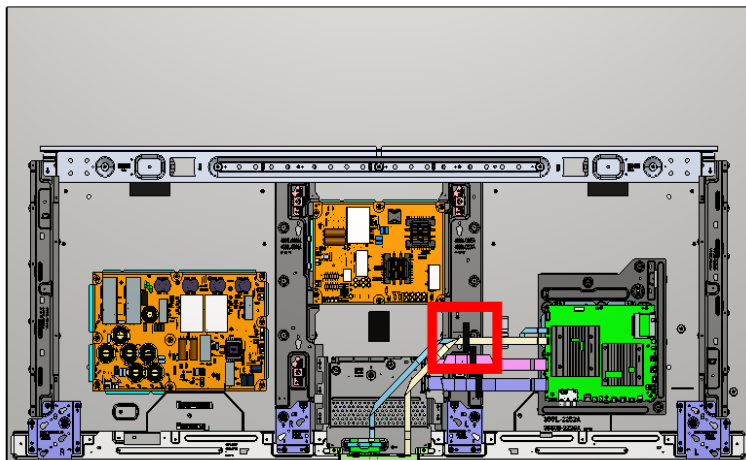
## Tape



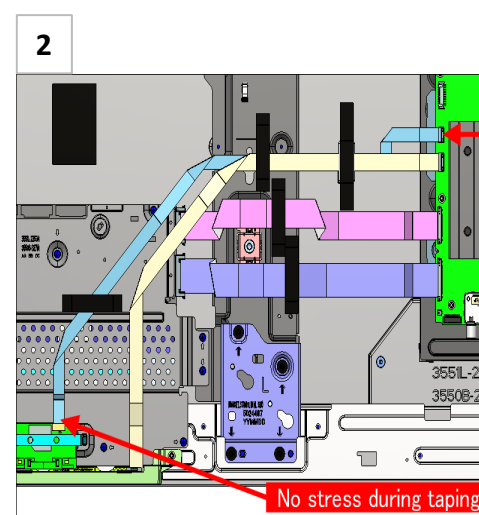
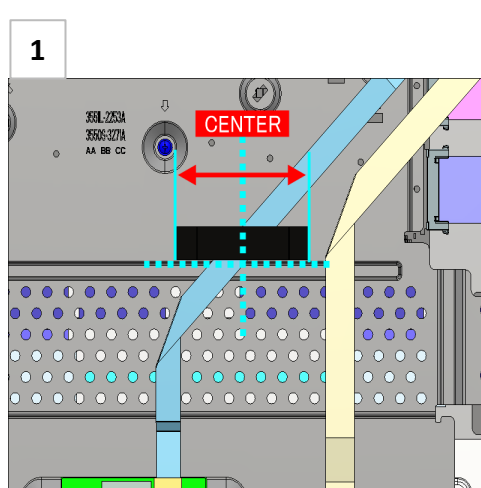
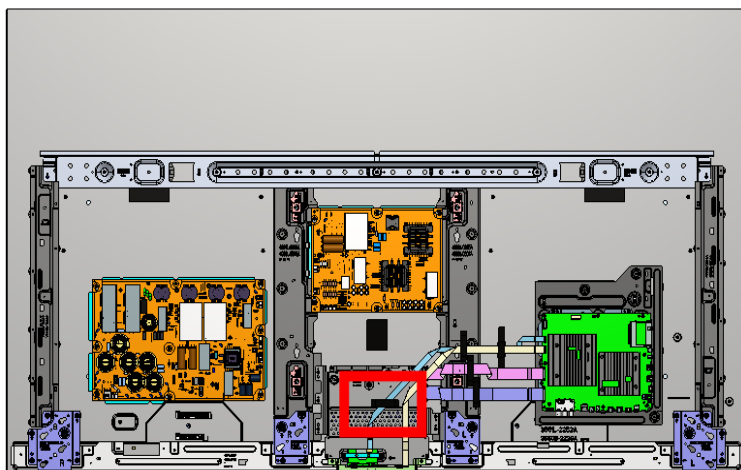
# SECTION 4: XR-83A80\*

# 4-3. WIRE DRESSING

## Tape



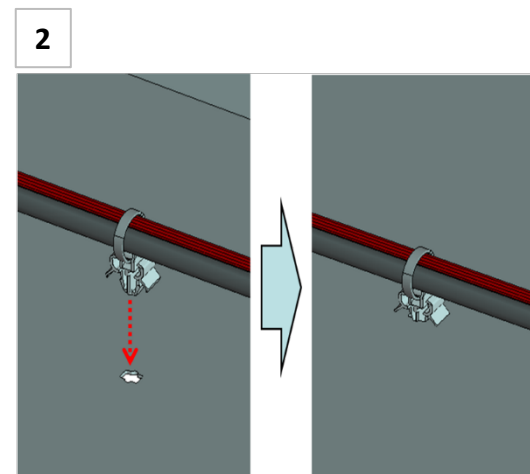
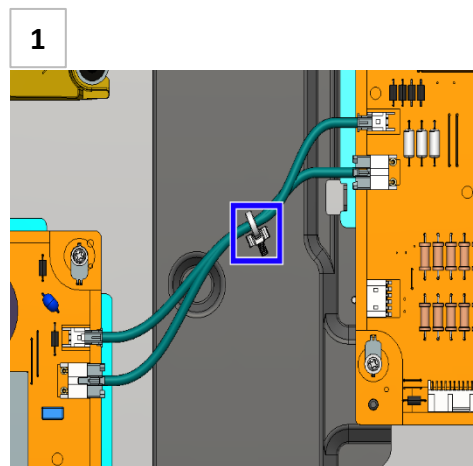
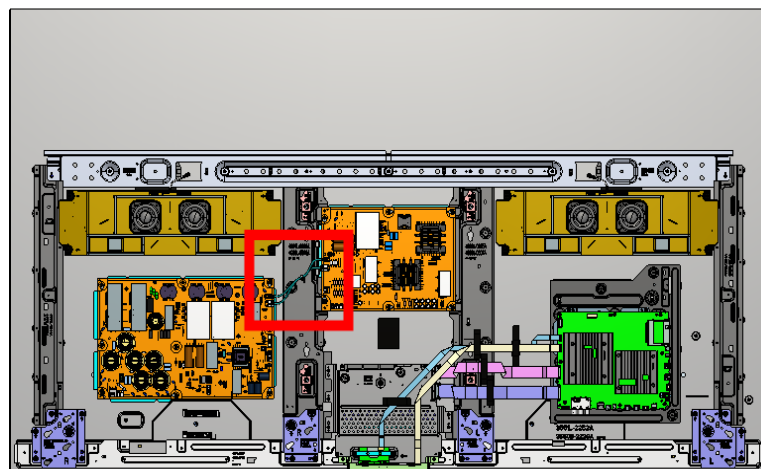
## Tape



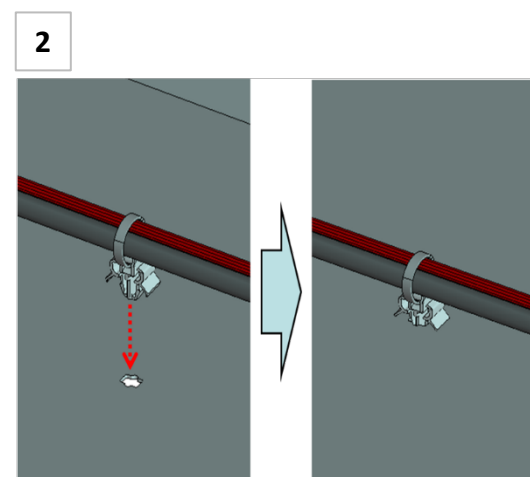
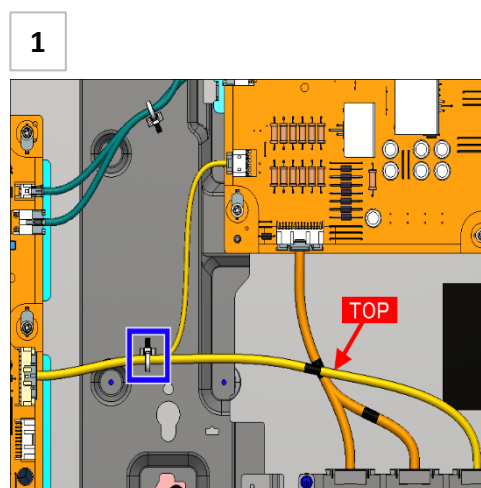
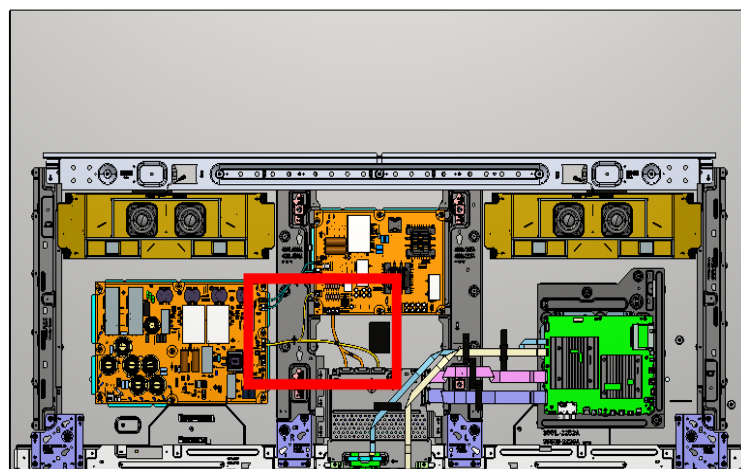
# SECTION 4: XR-83A80\*

# 4-3. WIRE DRESSING

## Wire Dressing



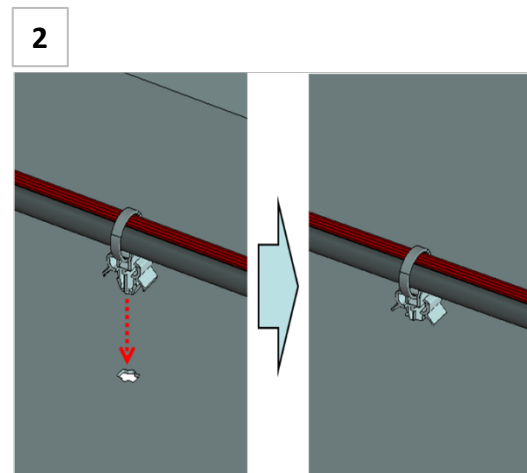
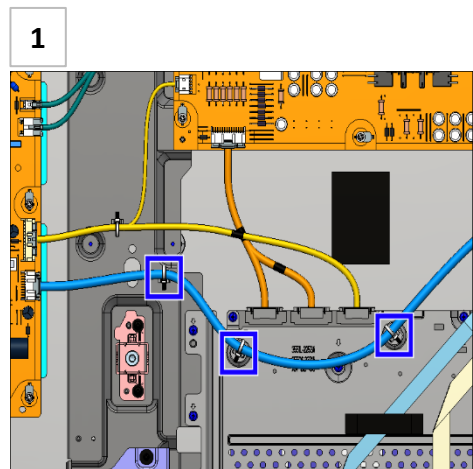
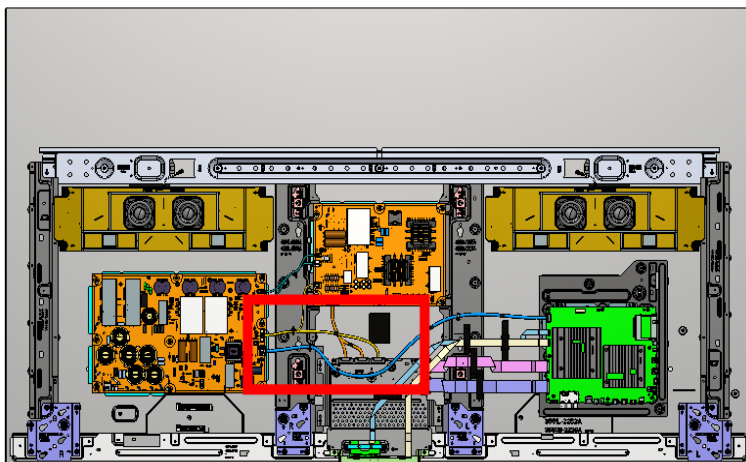
## Wire Dressing



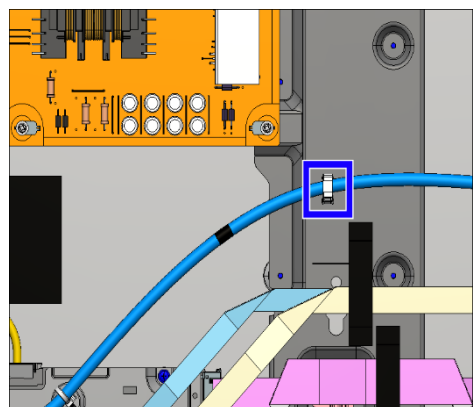
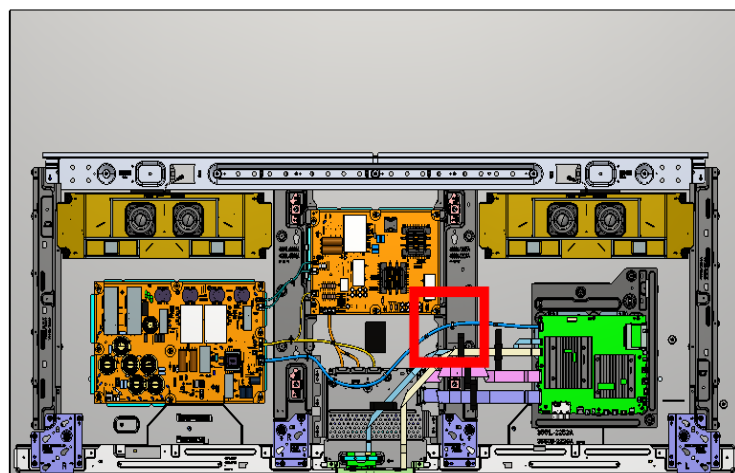
# SECTION 4: XR-83A80\*

# 4-3. WIRE DRESSING

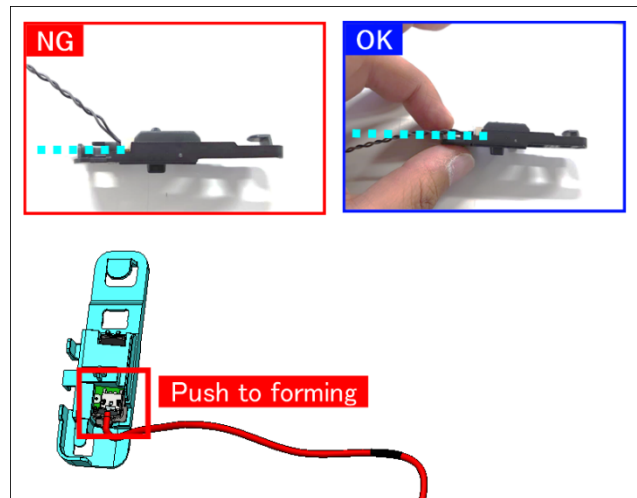
## Wire Dressing



## Wire dressing

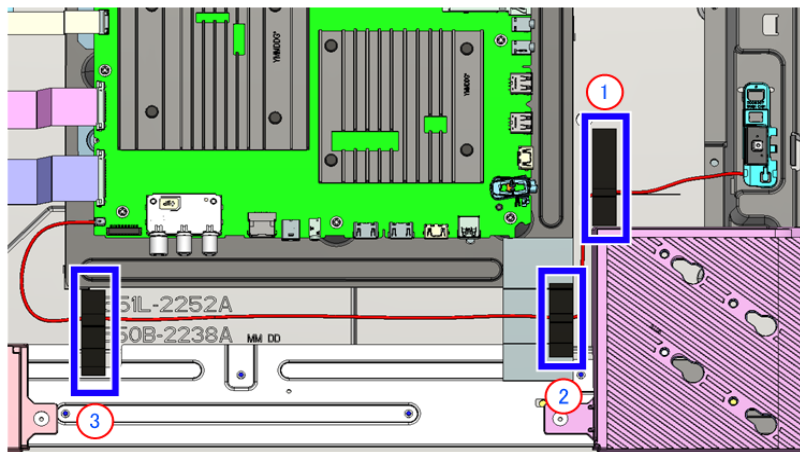


Wire Dressing



Information

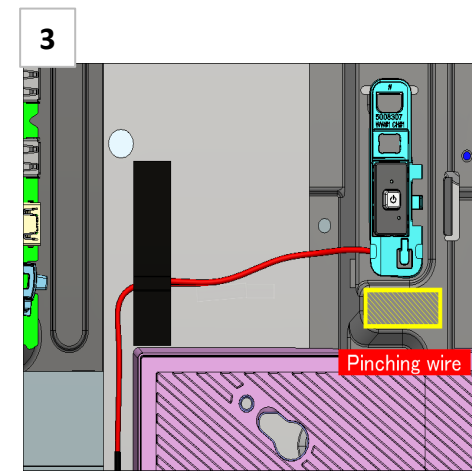
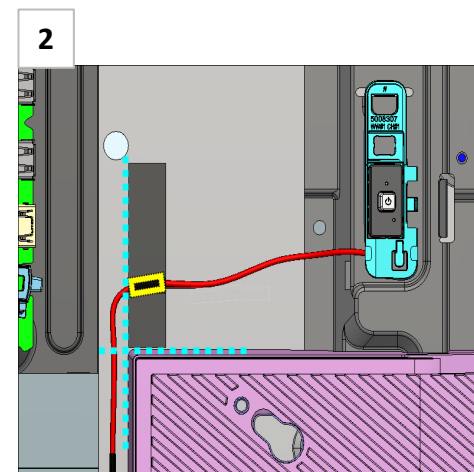
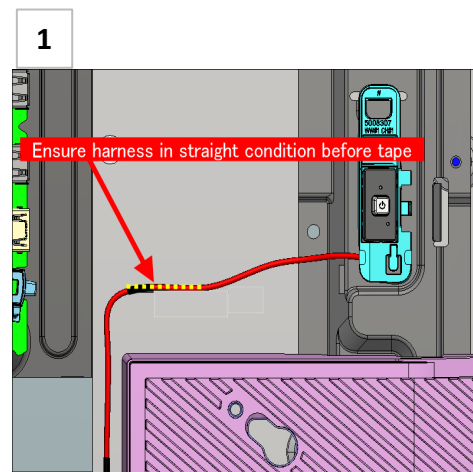
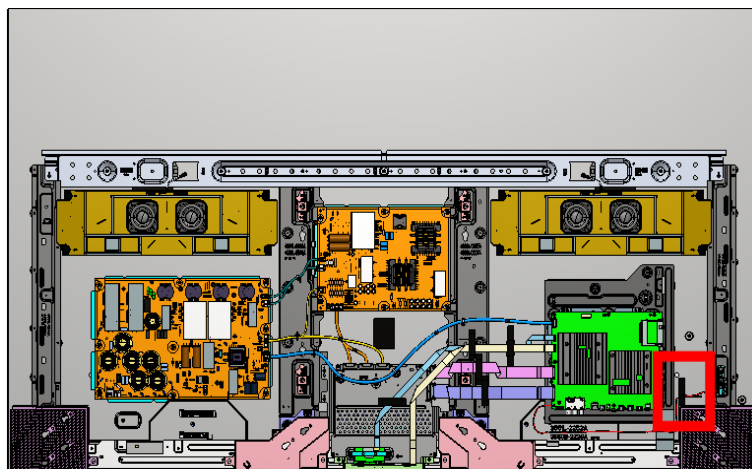
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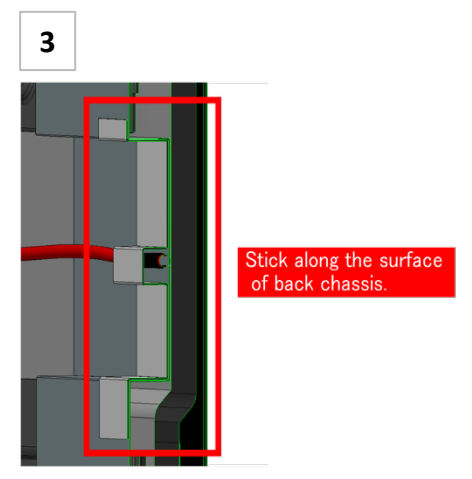
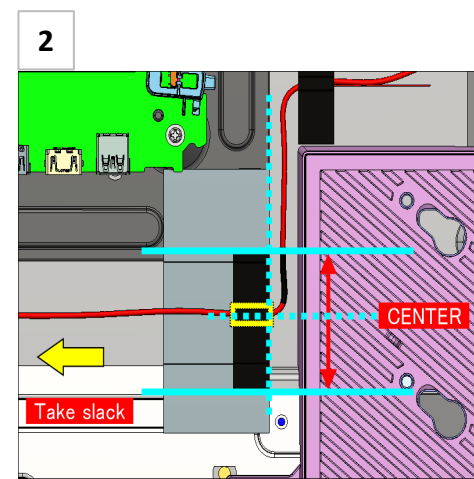
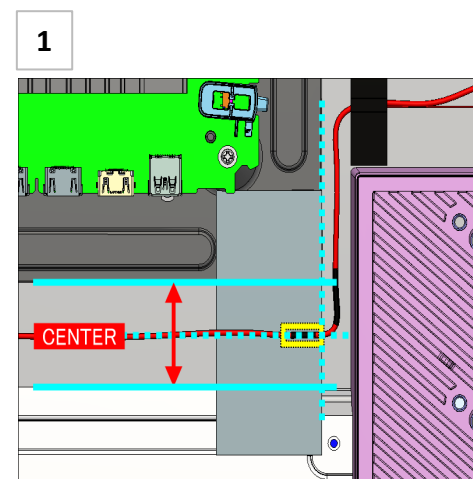
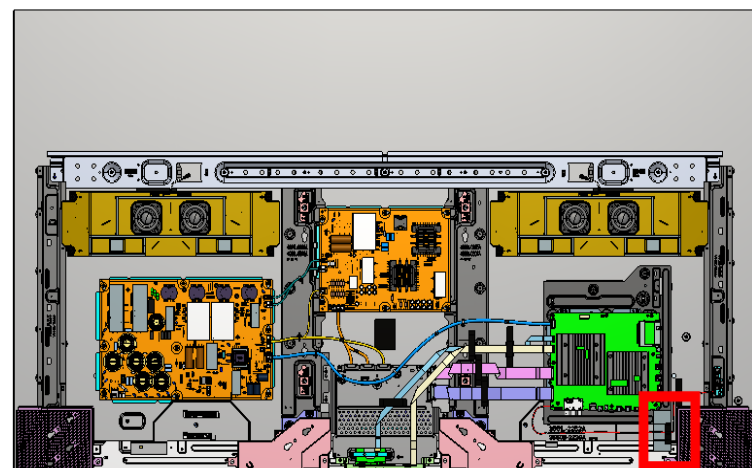
# SECTION 4: XR-83A80\*

# 4-3. WIRE DRESSING

## Tape



## Tape

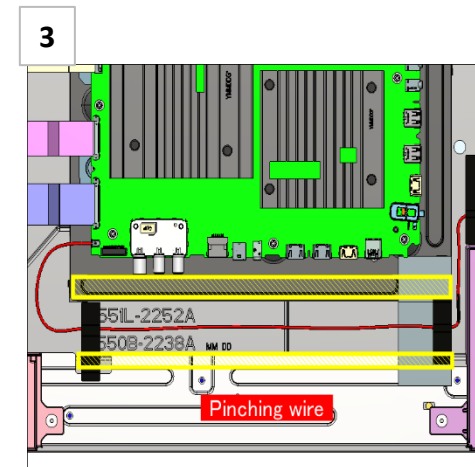
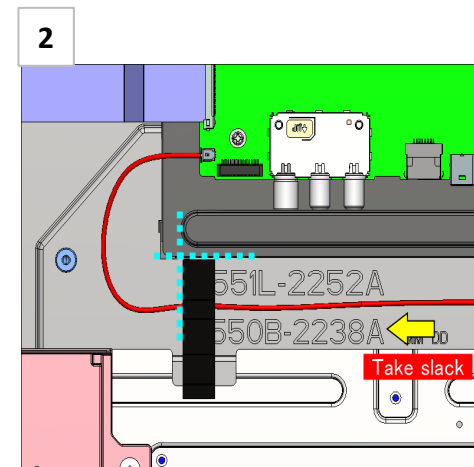
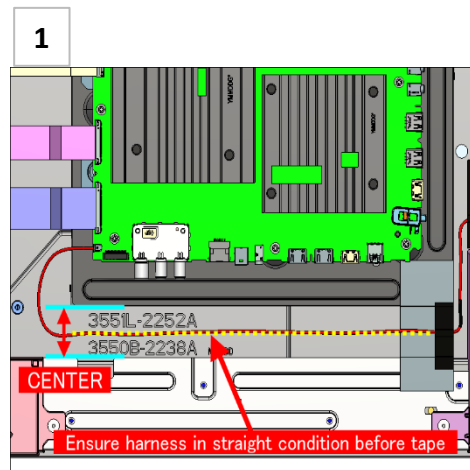
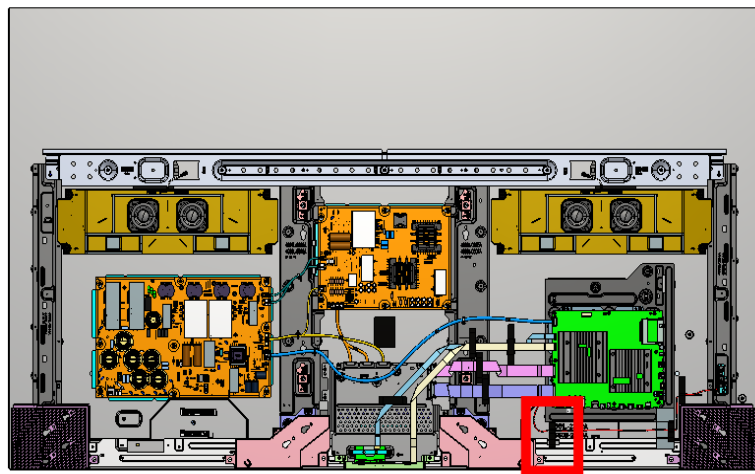




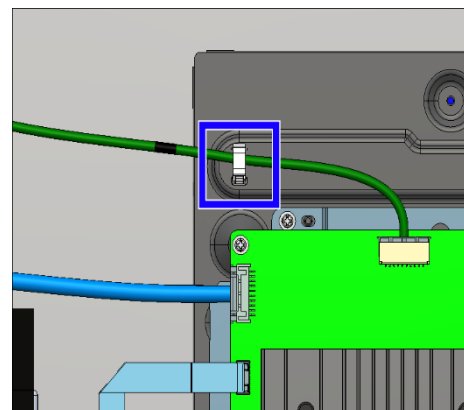
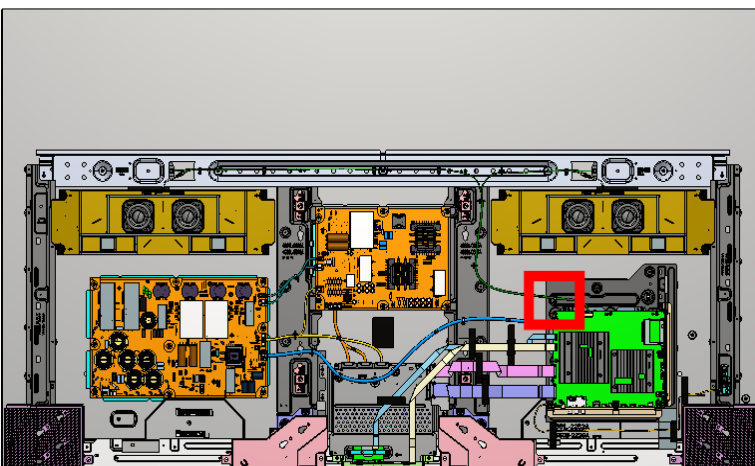
# SECTION 4: XR-83A80\*

## 4-3. WIRE DRESSING

### Tape



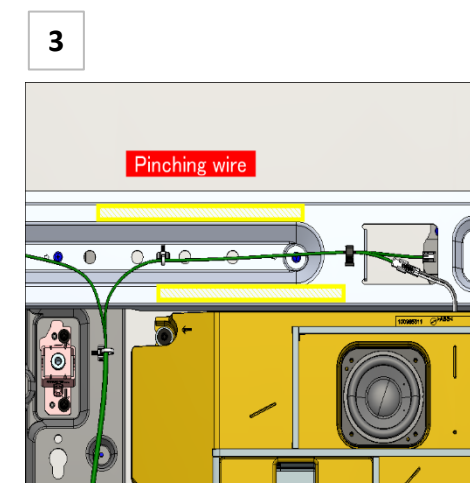
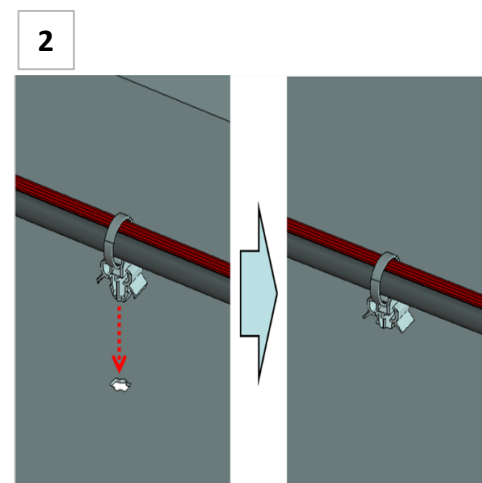
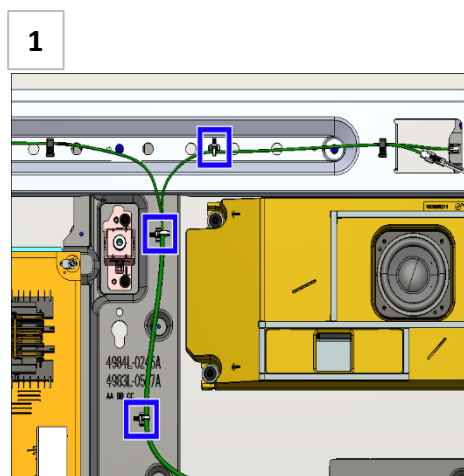
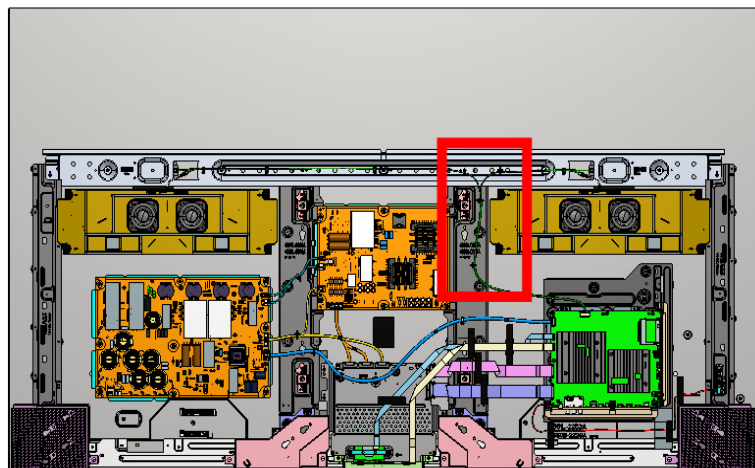
### Wire Dressing



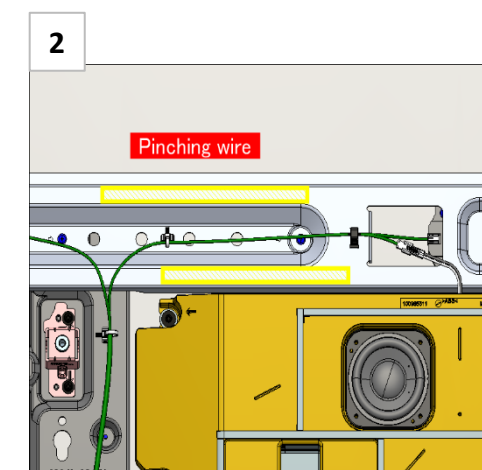
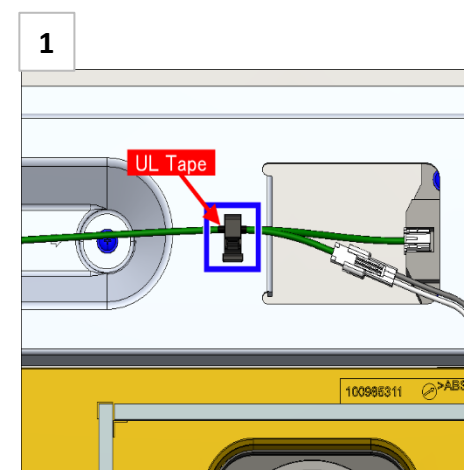
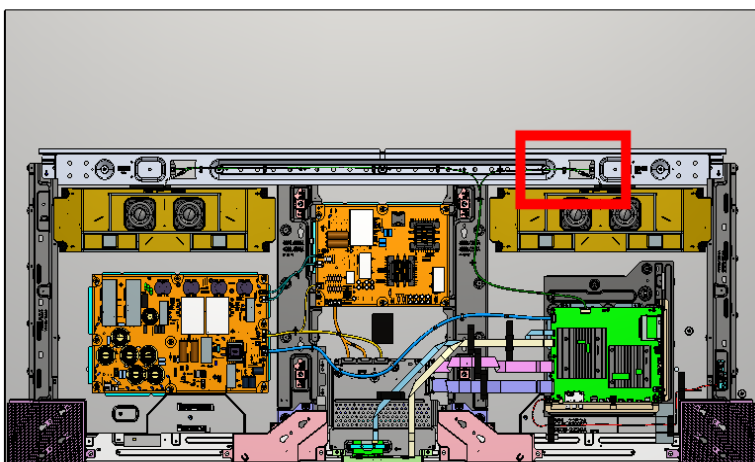
# SECTION 4: XR-83A80\*

## 4-3. WIRE DRESSING

### Wire Dressing



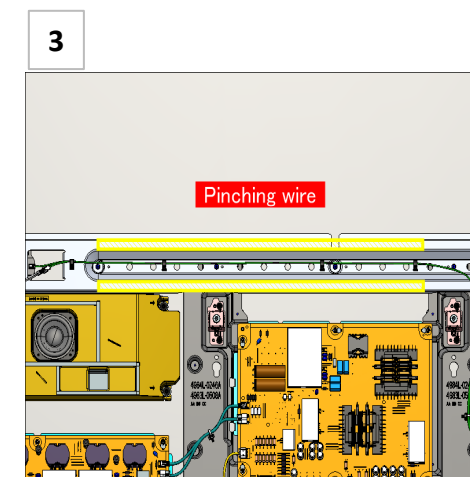
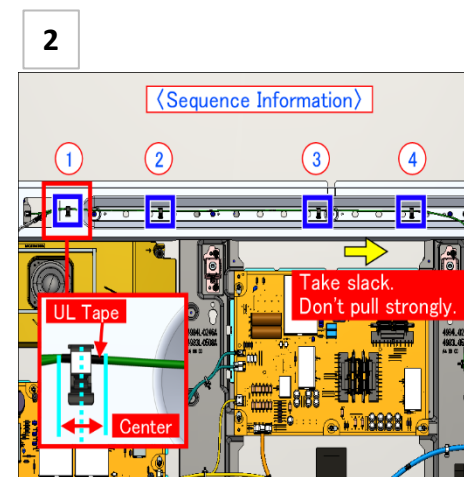
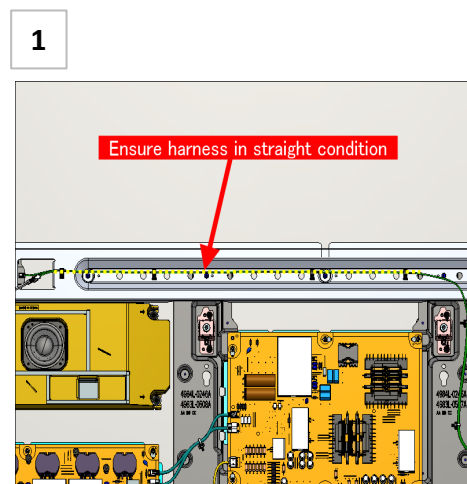
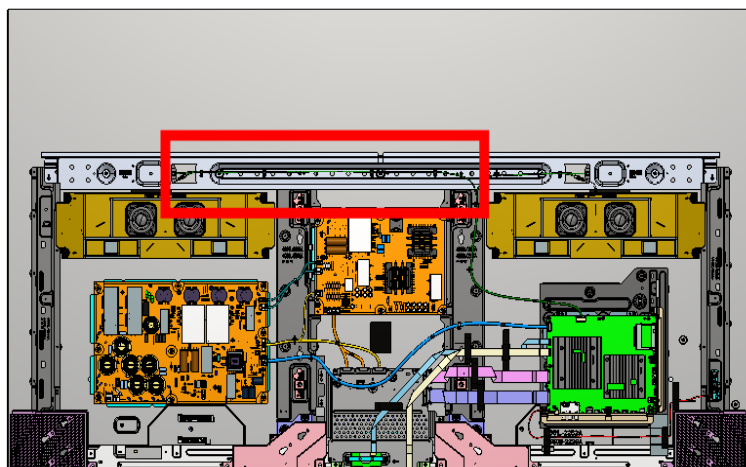
### Wire Dressing



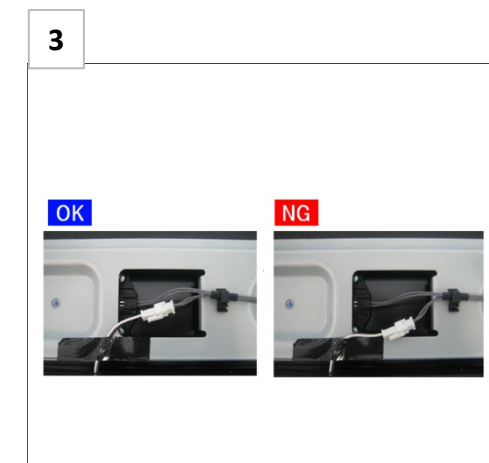
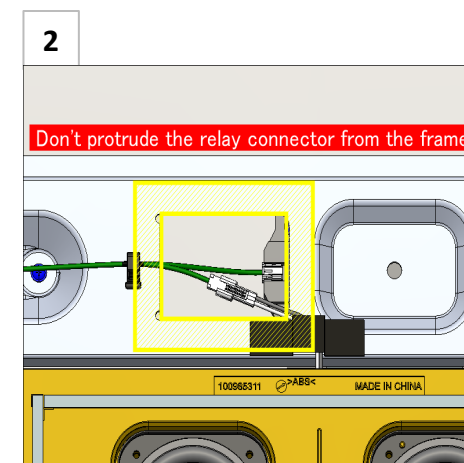
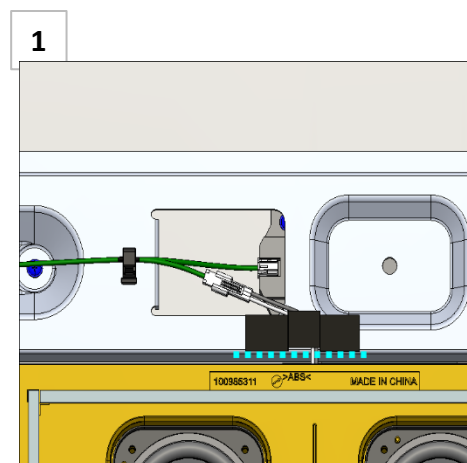
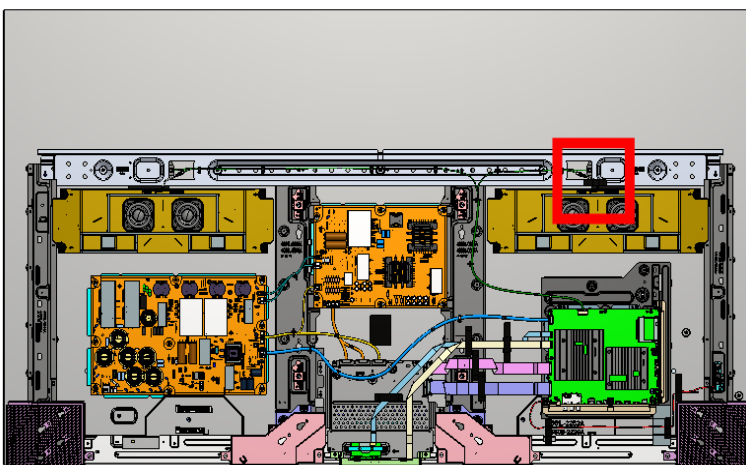
# SECTION 4: XR-83A80\*

## 4-3. WIRE DRESSING

### Wire Dressing



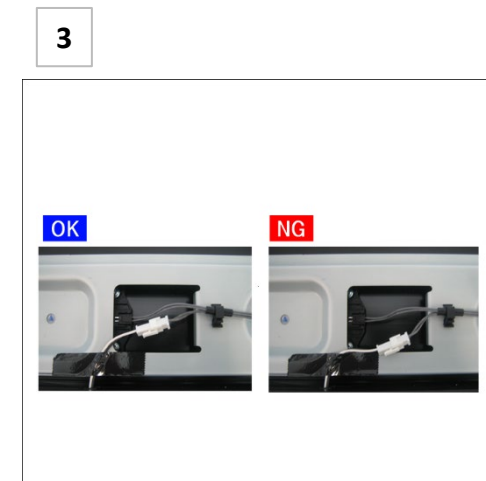
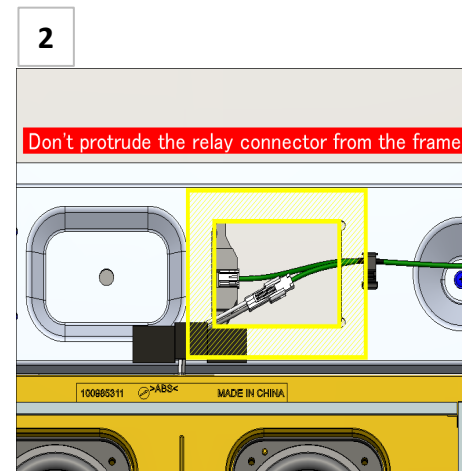
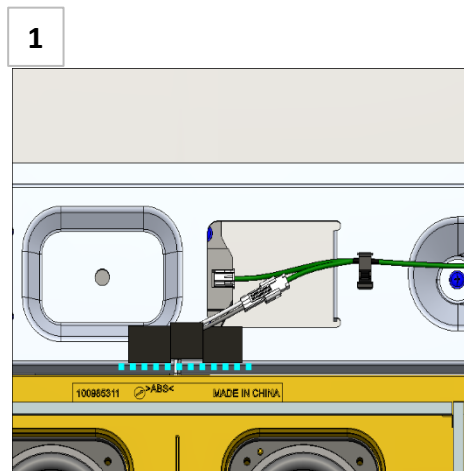
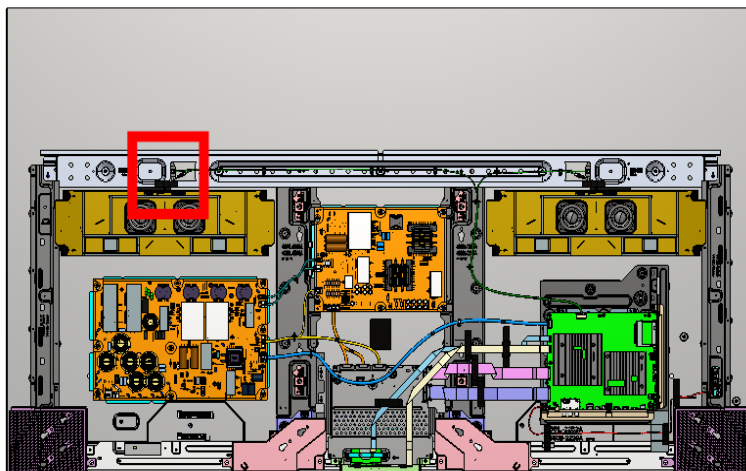
### Tape



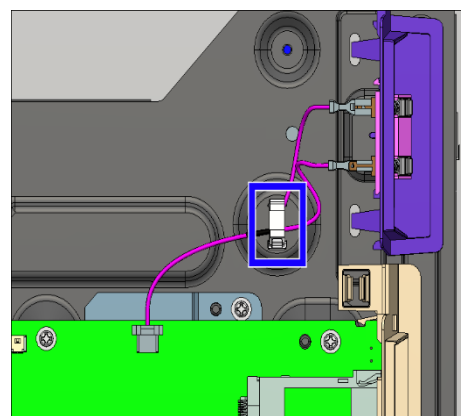
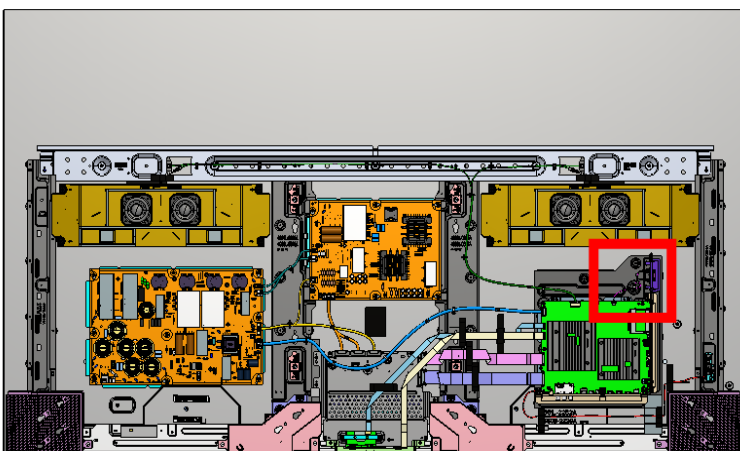
# SECTION 4: XR-83A80\*

## 4-3. WIRE DRESSING

### Tape



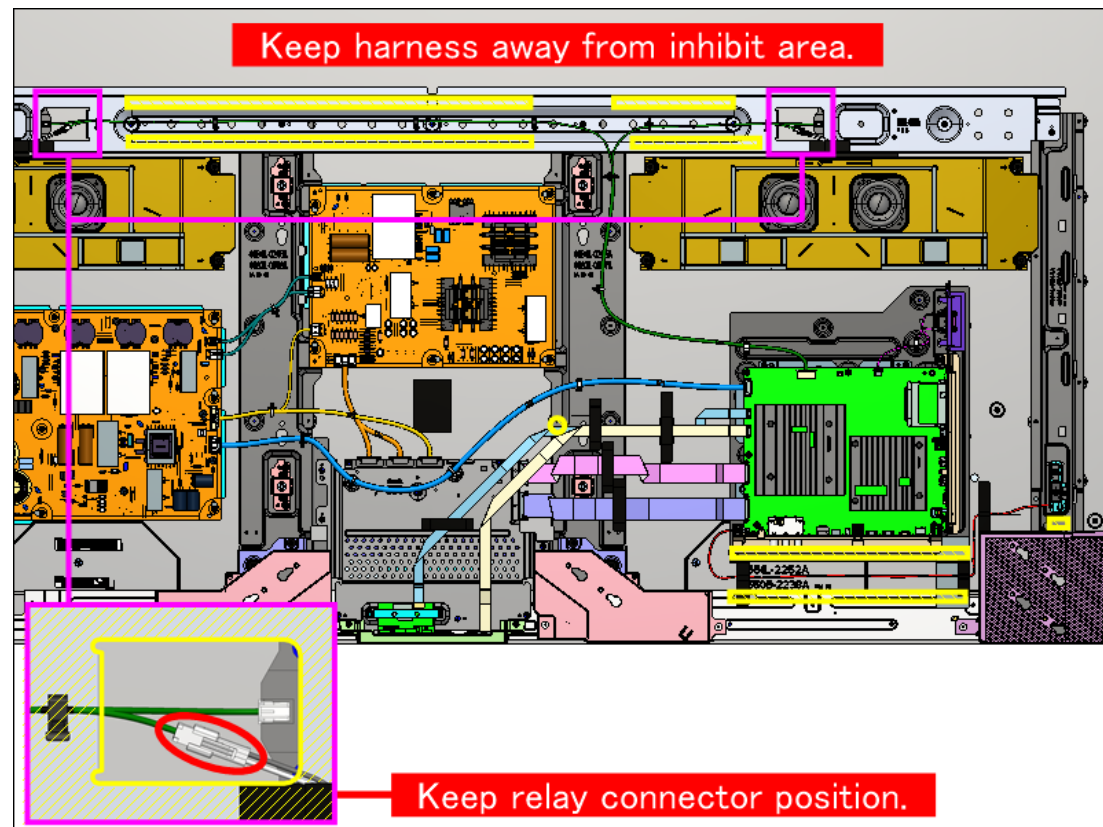
### Wire Dressing



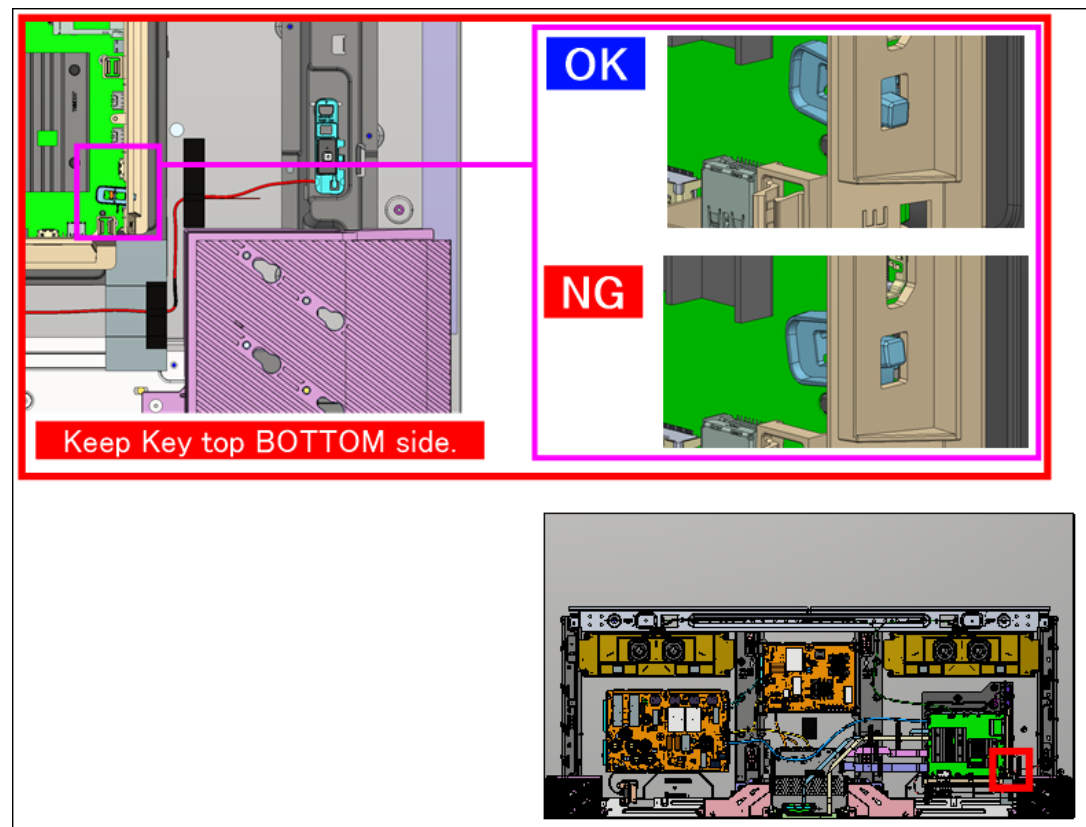
# SECTION 4: XR-83A80\*

## 4-3. WIRE DRESSING

### Information





### Information

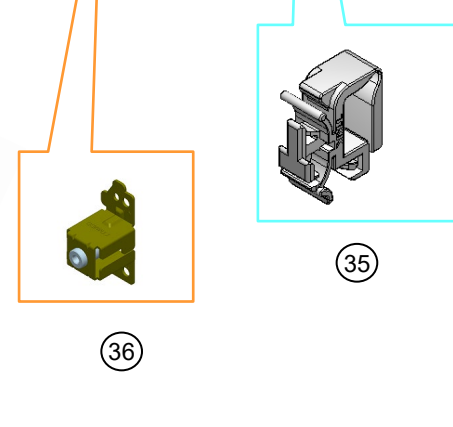
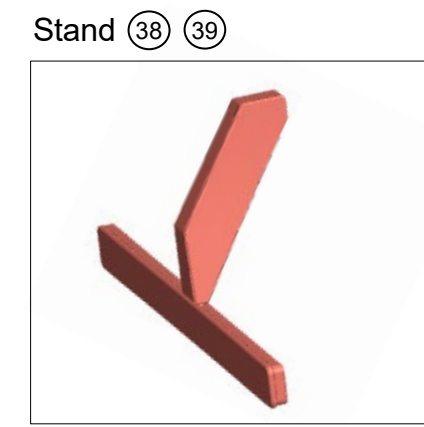
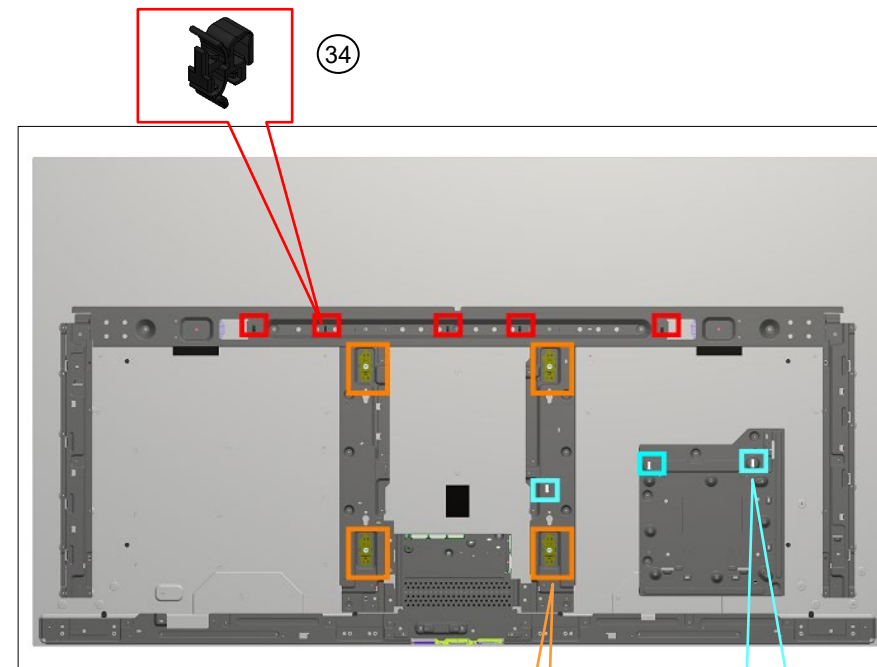
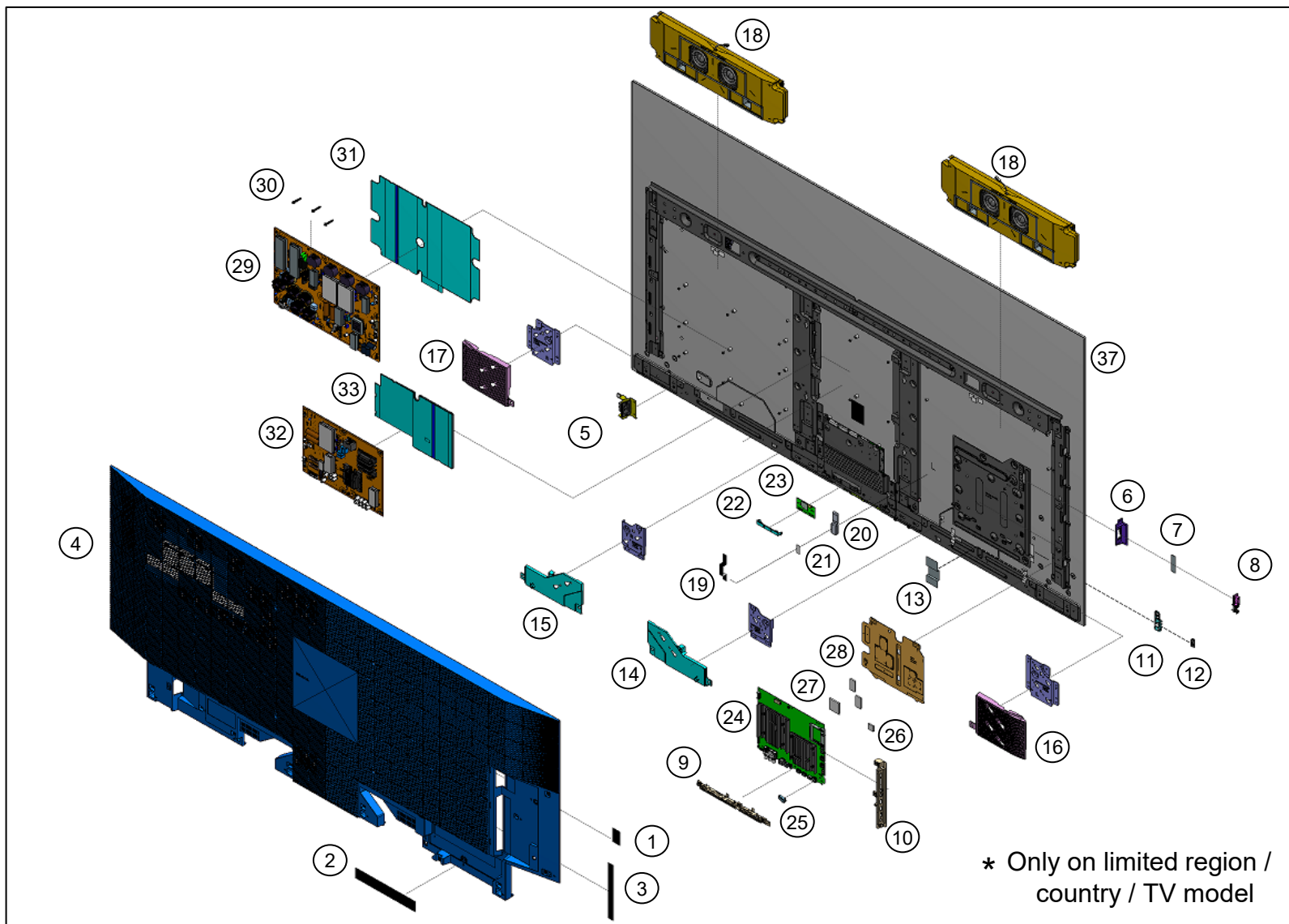


# SECTION 4: XR-83A80\*

# 4-4. EXPLODED VIEW AND PART LIST

- 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: XR-83A80\*


## 4-4. EXPLODED VIEW AND PART LIST

## SET PART LIST

REF. NO	PART NO.	DESCRIPTION	XR-83A80L	XR-83A80CL
			UCM	UC2
1	5-000-203-01	LABEL, CENTER SP (OCD)	•	•
2	5-049-098-01	LABEL, UNDER TERMINAL(BM5S,6S)	•	•
3	5-049-096-01	LABEL, SIDE TERMINAL(BM5S,6S)	•	•
 4	5-025-669-01	REAR COVER (4L SGT) A	•	•
 5	1-001-348-12	C24 AC INLET ASSY	•	•
6	4-743-315-01	BRACKET, CNT SP (OCD)	•	•
7	5-007-447-01	CUSHION, CNT SP BK (3L PAN)	•	•
8	1-001-686-11	PUSHTERMINAL	•	•
9	4-724-146-14	BRACKET, UNDER (BM2A)	•	•
10	5-036-017-71	BRACKET, SIDE(SGT)	•	•
11	5-008-307-01	HOLDER SIDE SW(LMN)	•	•
12	1-004-496-11	1 KEY SWITCH UNIT	•	•
13	5-031-024-01	AL TAPE(SGT 4L)	•	•
14	5-023-219-11	COVER, STAND L IN (4L SGT)	•	•
15	5-023-220-11	COVER, STAND R IN (4L SGT)	•	•
16	5-023-221-11	COVER, STAND L OUT (4L SGT)	•	•
17	5-023-222-11	COVER, STAND R OUT (4L SGT)	•	•

REF. NO	PART NO.	DESCRIPTION	XR-83A80L	XR-83A80CL
			UCM	UC2
18	1-009-853-11	SP BOX ASSY, FY21 D38 SWF	•	•
19	5-025-864-01	CUSHION 1525A	•	•
20	1-011-659-11	CORE, FERRITE	•	•
21	5-028-143-01	DOUBLE SIDE TAPE FOR FC S	•	•
22	5-009-258-22	BRACKET, WIFI(BNN)	•	•
 23	1-005-419-14	WLAN/BT MODULE(11AC)	•	•
 24	A-5055-870-A	COMPL SVC BM5S21_FS2_83_UCMX	•	•
25	5-023-281-02	KEY, TOP(SGT)	•	•
26	4-699-975-02	SHEET, THERMAL(5567H)	•	•
27	5-011-960-01	SHEET, THERMAL(LMN TCON)	•	•
28	5-023-557-01	SHEET THERMAL(BM5S21 DDR)	•	•
 29	1-010-553-11	G18 - STATIC CONVERTER(TV)	•	•
30	5-014-769-01	SPACER(26) WF +C	•	•
 31	5-023-772-01	SHT, INSULATION(SGT 4L)L A	•	•
 32	1-010-554-11	G19 - STATIC CONVERTER(TV)	•	•
 33	5-023-773-01	SHT, INSULATION(SGT 4L)M A	•	•

**SECTION 4: XR-83A80\*****4-4. EXPLODED VIEW AND PART LIST****SET PART LIST**

REF. NO	PART NO.	DESCRIPTION	XR-83A80L	XR-83A80CL
			UCM	UC2
34	2-650-770-41	SLIDE, CLAMP (BLACK)	•	•
35	*2-650-770-21	SLIDE, CLAMP (SILVER)	•	•
36	*5-023-713-01	BRACKET, VESA (3L LMN)	•	•
 37	1-011-756-12	OLED PANEL(L83APB1)	•	n/a
38	5-024-903-11	STAND, L (4L SGT) A	•	•
39	5-024-904-11	STAND, R (4L SGT) A	•	•

Notes : When replacing Panel, please also replace the following parts at the same time.

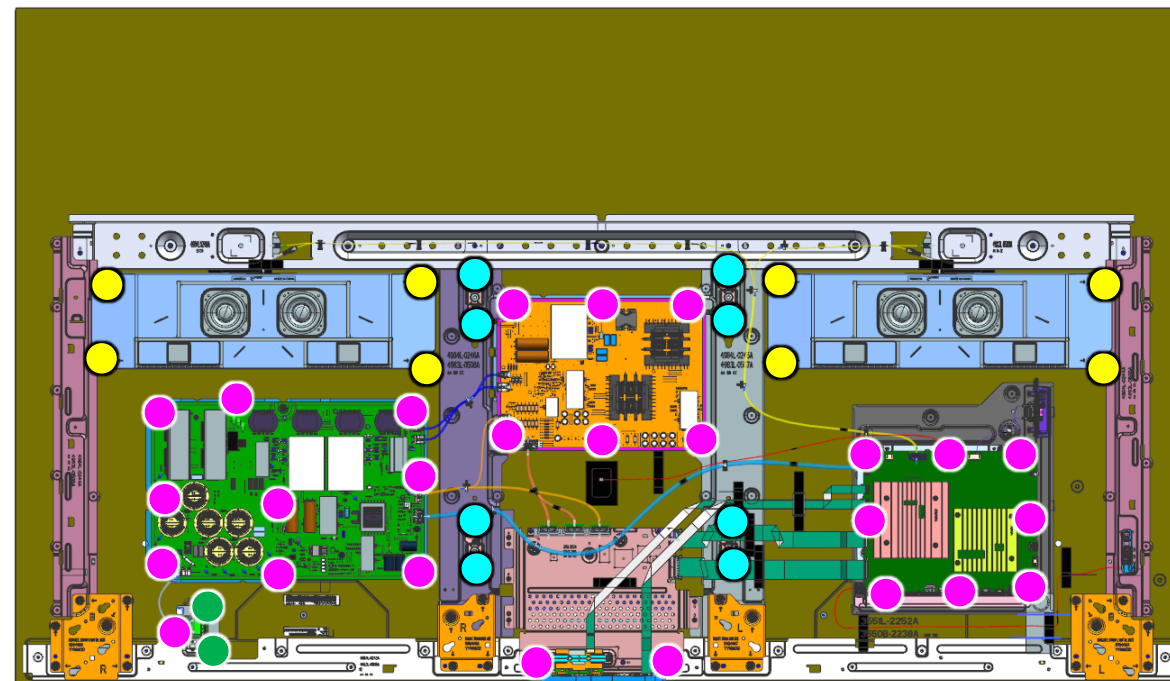
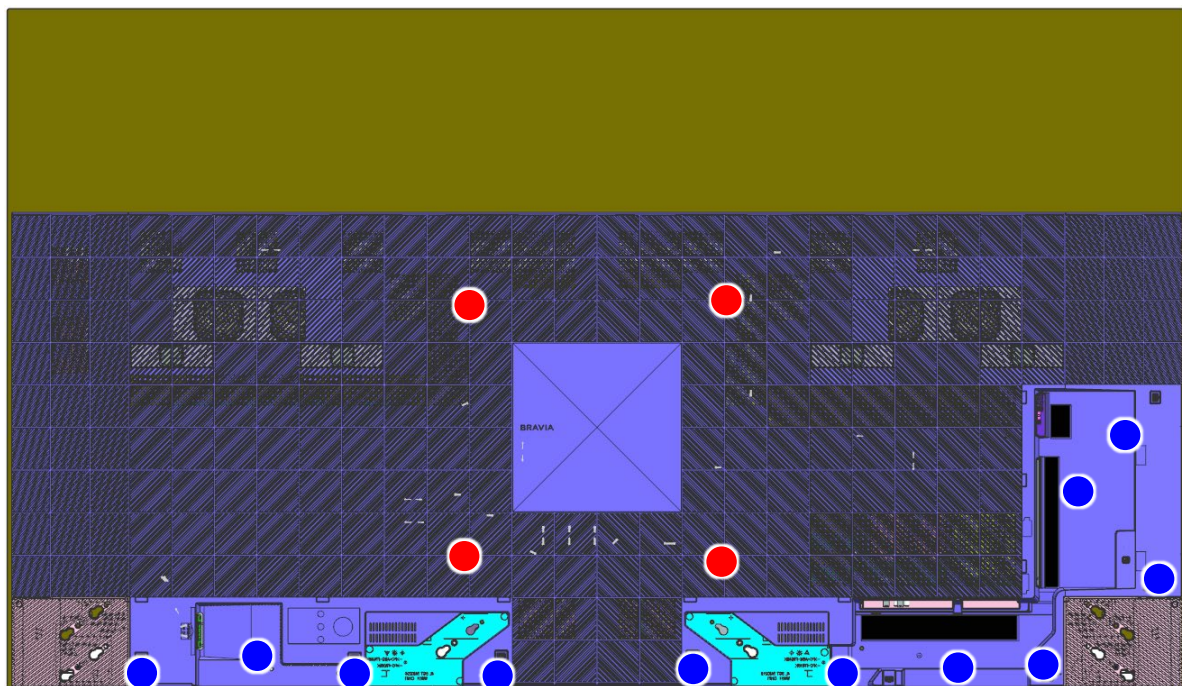
- 13. 5-031-024-01 AL TAPE(SGT 4L)
- 19. 5-025-864-01 CUSHION 1525A
- 21. 5-028-143-01 DOUBLE SIDE TAPE FOR FC S
- 31. 5-023-243-01 SHT, INSULATION(SGT 4L)L (If it is damaged)
- 33. 5-023-244-01 SHT, INSULATION(SGT 4L)M (If it is damaged)









# SECTION 4: XR-83A80\*

# 4-4. EXPLODED VIEW AND PART LIST

## SCREW

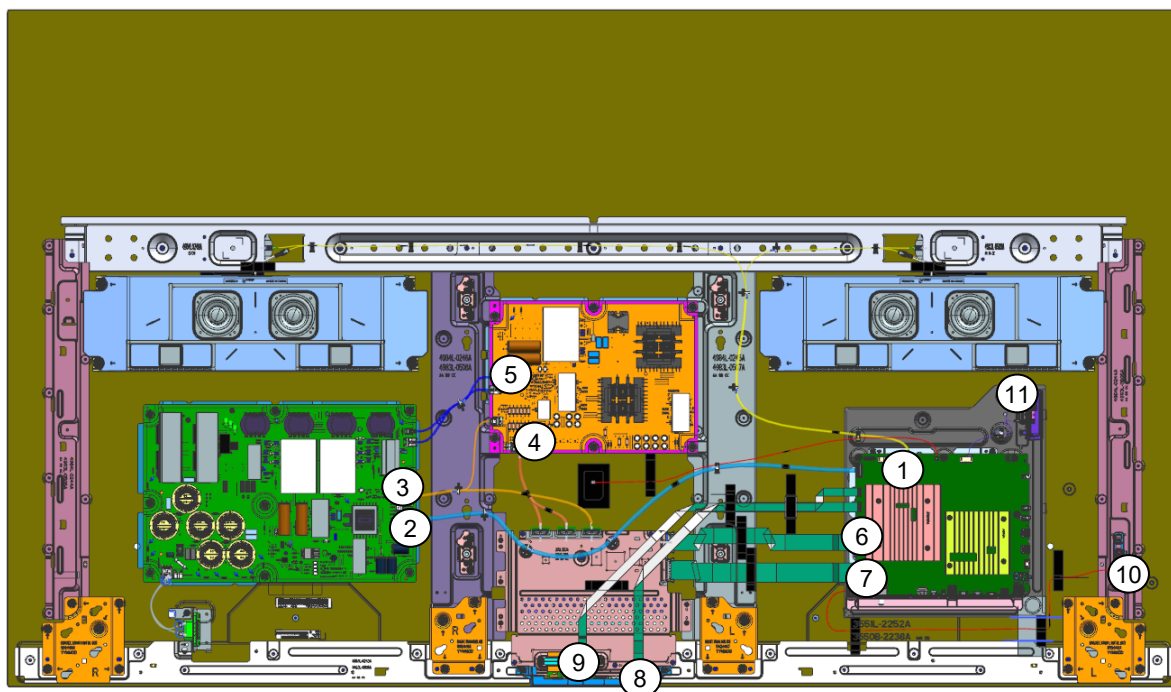


REMARKS	PART NO.	DESCRIPTION	QUANTITY	TORQUE
	4-167-019-22	SCREW +PSW, M3X8	8	0.4±0.05
	4-579-926-01	SCREW M3X3.0 STEP	11	0.65±0.1
	4-268-126-02	SCREW, ORNAMENTAL M6X12	4	1.2±0.1
	4-472-518-11	SCREW, +PSW M3X6	26	0.4±0.05
	4-159-298-01	SCREW, +PSW M4X10	8	0.65±0.1
	2-580-592-01	SCREW, +PSW M3X8	2	0.4±0.05

## SECTION 4: XR-83A80\*


## 4-4. EXPLODED VIEW AND PART LIST

## CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-010-574-11	CONNECTOR ASSY 10P	CN6603(B)-SP(1)
2	1-010-571-11	CONNECTOR ASSY 20P	CN6401(PSU)-CN1700(B)(1)
3	1-010-573-11	CONNECTOR ASSY 14P	CN6402(PSU)-CN6602(PSU)-CN8(TCON)(1)
4	1-010-572-11	CONNECTOR ASSY 28P	CN6601(PSU)-CN6(TCON)-CN14(TCON)(1)
5	1-010-576-11	CONNECTOR ASSY 2P	CN6501(PSU)-CN6503(PSU)-CN6502(PSU)-CN6504(PSU)(1)
6	1-010-625-11	FLEXIBLE FLAT CABLE 41P	CN6801(B)-CN7(TCON)(1)
7	1-010-626-11	FLEXIBLE FLAT CABLE 51P	CN6800(B)-CN5(TCON)(1)
8	1-010-623-11	FLEXIBLE FLAT CABLE 25P	CN1200(B)-CN102(H)(1)
9	1-010-621-11	FLEXIBLE FLAT CABLE 20P	CN3803(B)-BT(1)
10	1-010-570-11	CONNECTOR ASSY 3P	CN5402(B)-KEY(1)
11	1-972-625-11	CONNECTOR ASSY 4P	CN6605(B)-CIN(1)

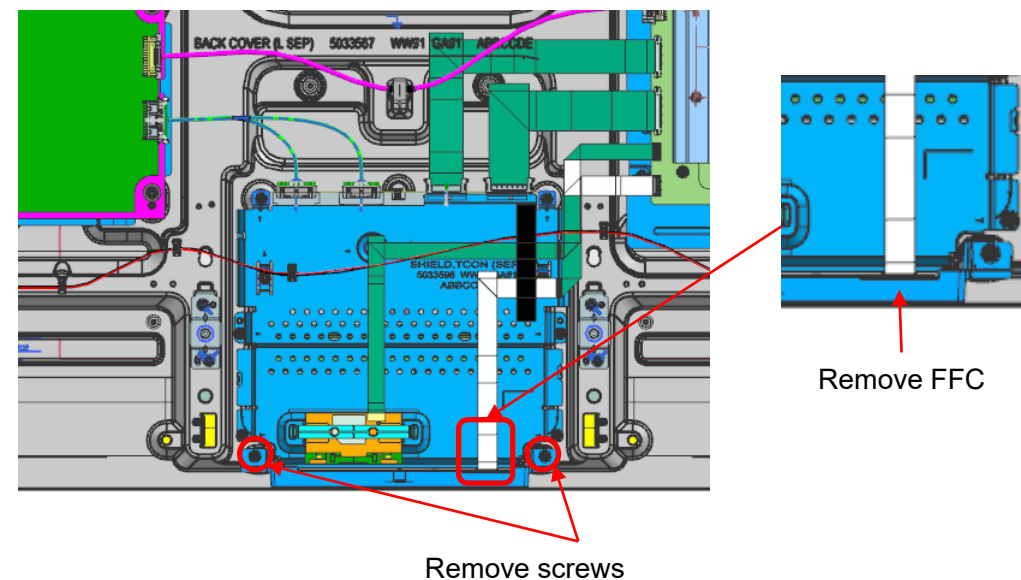
**SECTION 4: XR-83A80\*****4-4. EXPLODED VIEW AND PART LIST****OTHER PARTS**

PART NO.	DESCRIPTION	XR-83A80L	XR-83A80CL	REMARKS
		UCM	UC2	
4-535-064-62	ASSY,FALL LOCK,BELT LL	•	•	-
5-000-746-21	BAG, SCREW ASSY (M5L14)	•	•	Including SCREW, +PSW M5X14 (4pcs)
4-262-708-04	CLAMPER, CABLE	•	•	-
 1-001-346-11	C23 AC POWER CORD SETS (US)	•	•	-
5-023-209-11	COVER, SIDE (4L SGT)	•	•	Side Terminal Cover
5-023-210-11	COVER, UNDER (4L SGT)	•	•	Under Terminal Cover
5-023-211-11	COVER, AC (4L SGT)	•	•	AC Inlet Cover
5-024-918-11	NECK COVER B ASSY (4L SGT)	•	•	Including neck cover for stand L/R (2pcs)
1-016-940-21	REMOTE COMMANDER (RMF-TX810U)	•	n/a	-
1-016-949-21	REMOTE COMMANDER (RMF-TX910U)	n/a	•	-
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	•	-
*5-048-119-11	REFERENCE GUIDE	•	•	-
*5-048-123-11	SETUP GUIDE	•	•	-

# SMART CORE

# DISASSEMBLY AND REMOVAL CAUTION

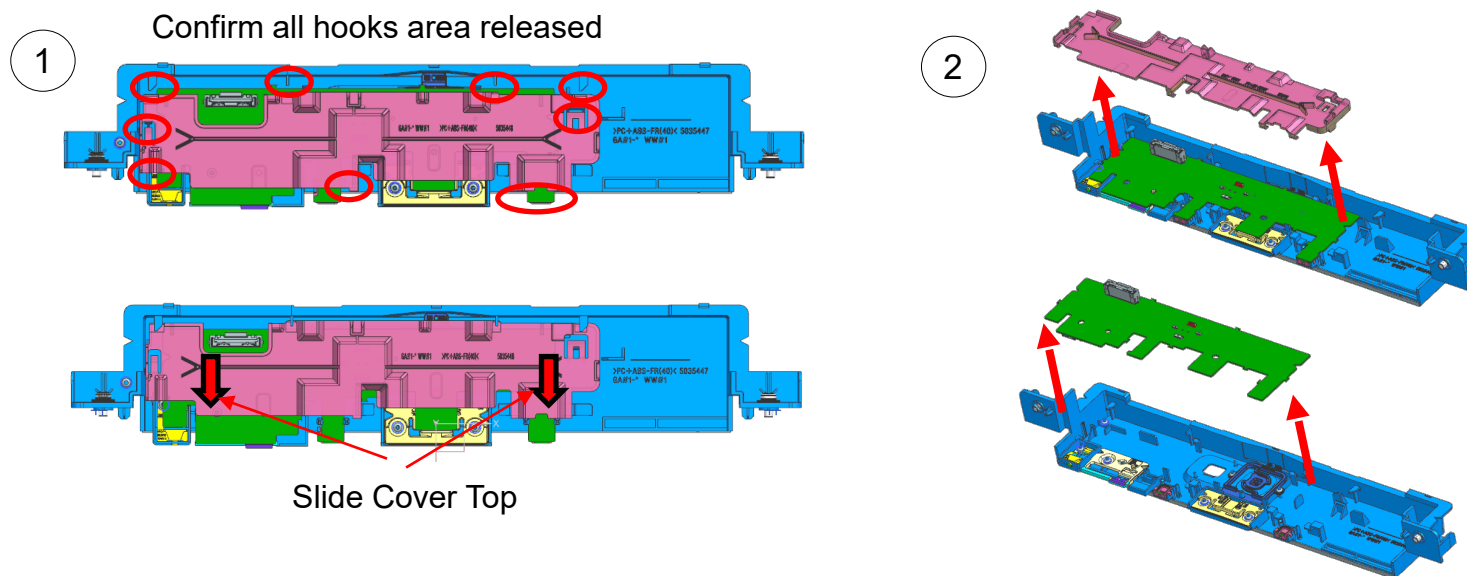
1. Release FFC in red box.
2. Release screws in red circle.
3. Take out the smart core.



## DISASSEMBLE COVER TOP (55" / 65" / 77")

Remove the hooks in the following order.

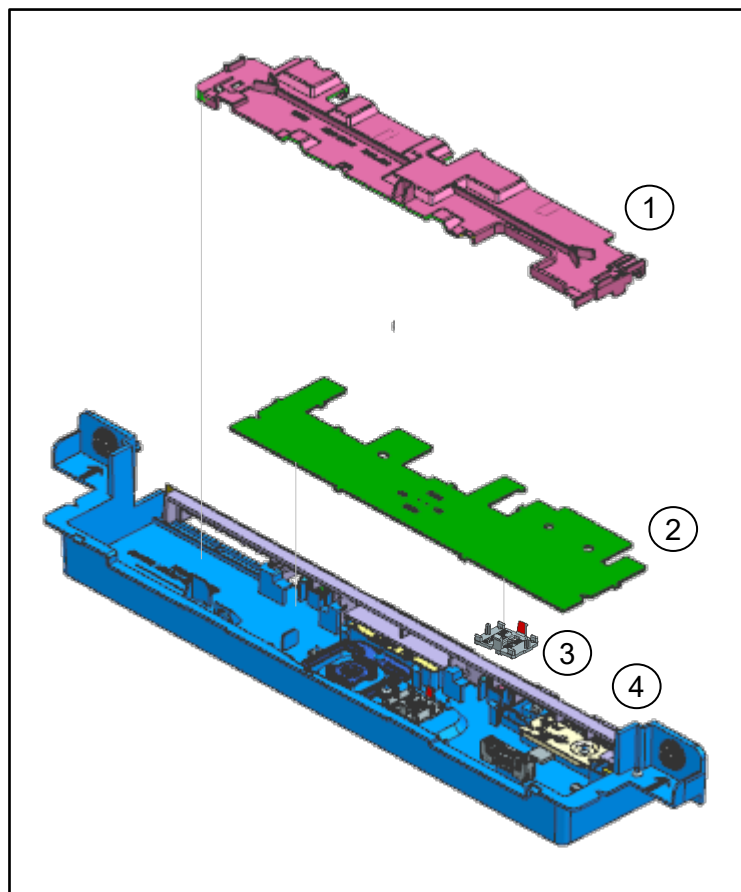
- ① Lift the hook in red circle and slide it.
- ② Hold the area in the red box and lift the receiver board.



# SMART CORE

# EXPLODED VIEW AND PART LIST

55" / 65" / 77"

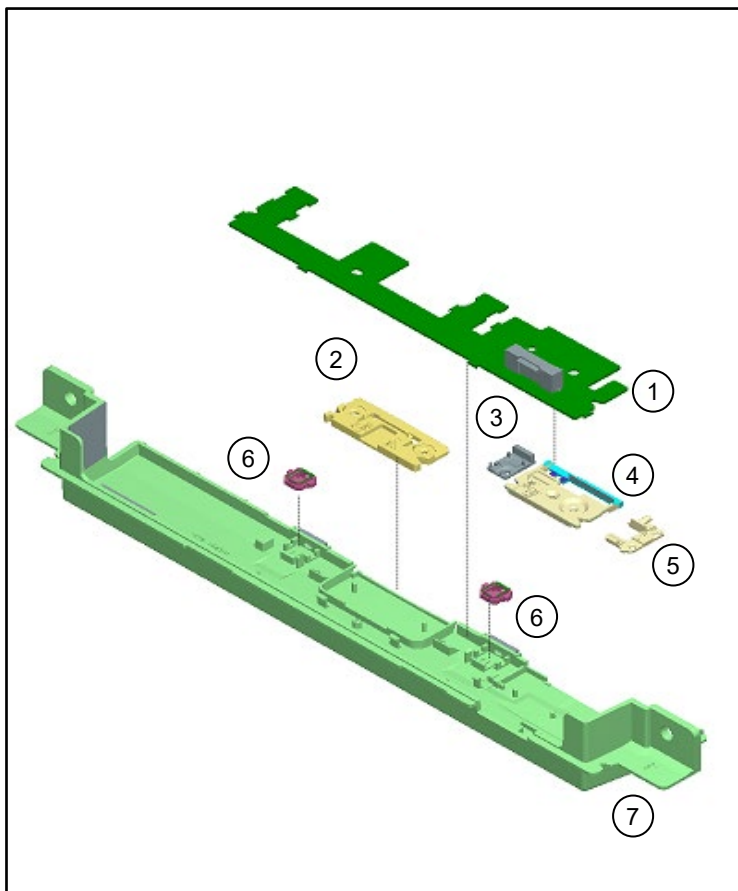


REF. NO	PART NO.	DESCRIPTION	REMARKS
1	*5-035-448-11	COVER, TOP (SEP)	-
2	A-5042-387-A	HY1_MIC_WW_EV_PR_OS MOUNT	80K / 80CK
2	A-5056-099-A	FY23_HY2_MIC_WW_EVSIOS MOUNT	80L / 80CL
2	A-5056-445-A	FY23_HY2_WW_EVSI MOUNT	75L
3	5-024-521-22	SLIDE, SW	80K / 80CK / 80L / 80CL
4	5-036-863-01	COVER, BTM (SEP) A	80K / 80CK / 80L / 80CL
4	5-036-863-21	COVER, BTM (SEP) A	75L

# SMART CORE

# EXPLODED VIEW AND PART LIST

83”





REF. NO	PART NO.	DESCRIPTION	REMARKS
1	A-5055-896-A	HL2B_RGB_MIC_WW MOUNT	-
2	5-023-066-21	LIGHT GUIDE ILM (COM)	-
3	5-023-349-21	LIGHT, GUIDE RGB(SGT)	-
4	5-023-065-22	LIGHT GUIDE OPT (COM)	-
5	5-023-067-21	LIGHT GUIDE LED (COM)	-
6	5-023-161-21	SILICON MIC(PHN)	-
7	5-023-809-11	COVER, BTM(TUR)	-

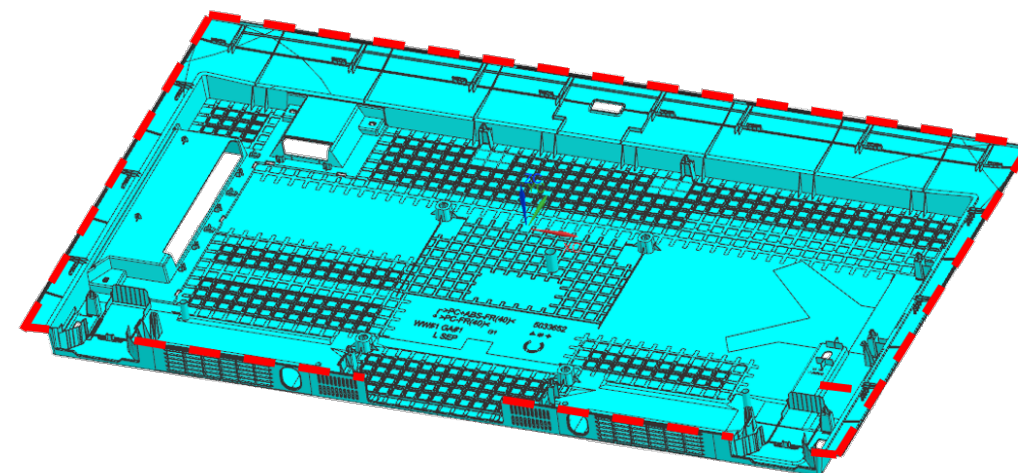
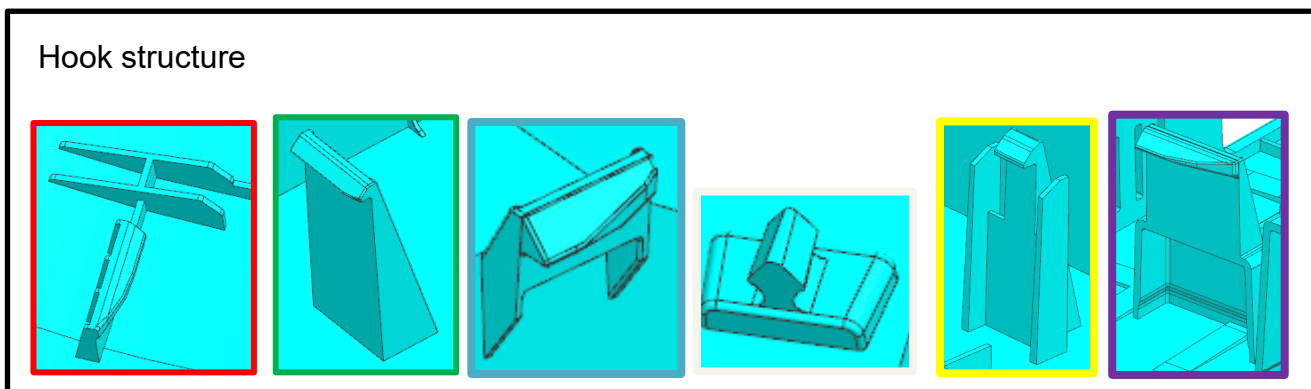
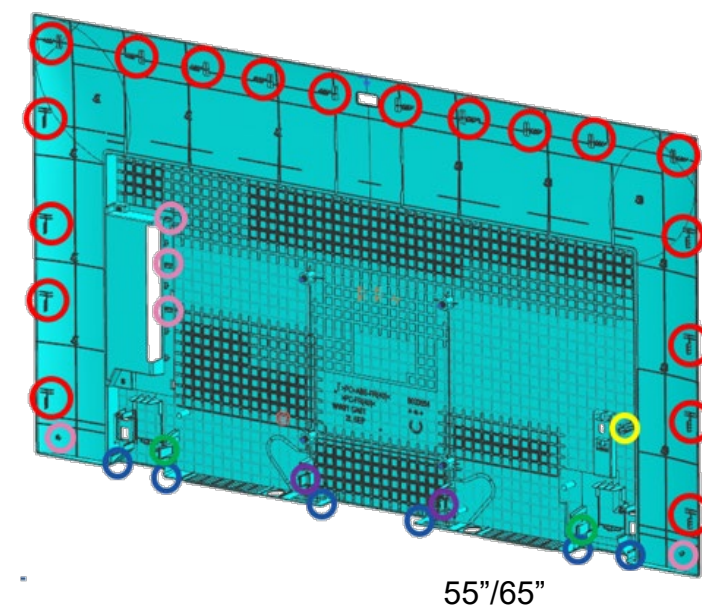
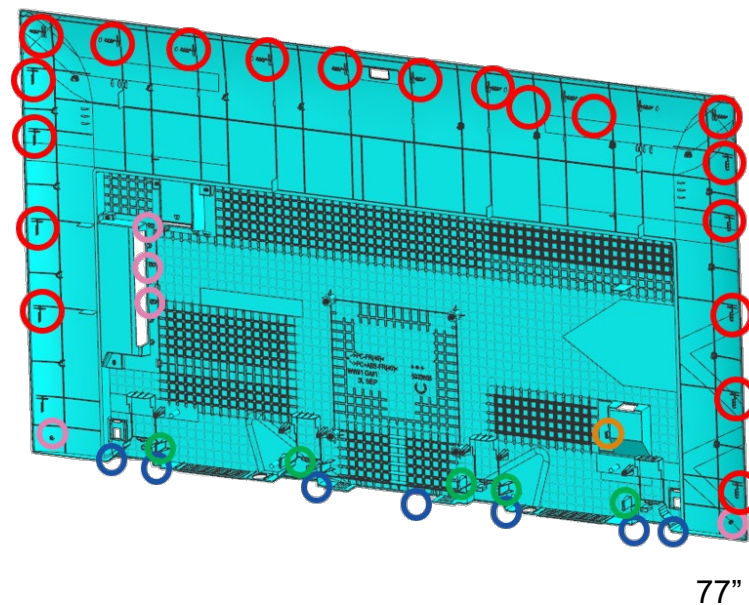
# APPENDIX

# SHARP EDGE

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

 : Bottom side sharp edge and sharp corner position.  
Hook position may vary according to inch

 : Sharp edge



# APPENDIX

# FFC REPLACEMENT CAUTIONS

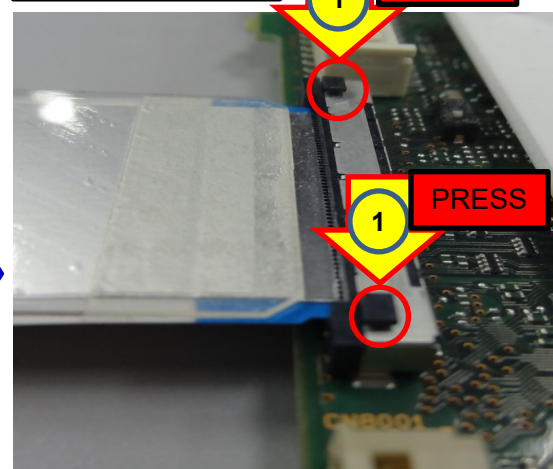
Remark: Refer to Board Location and Connector Diagram

## WITHDRAWAL OF 41P / 51P FFC CONNECTOR (TYPE1)

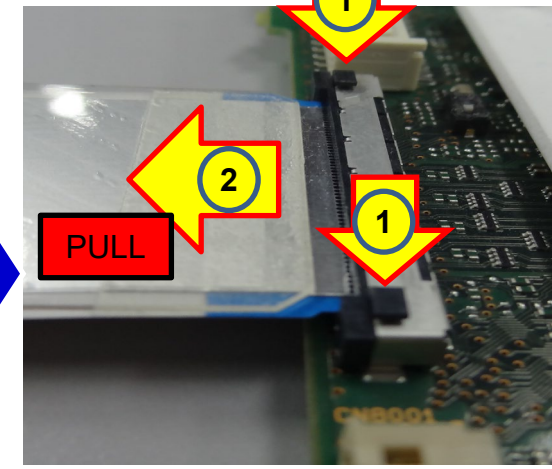
Initial condition



Step 1



Step 2



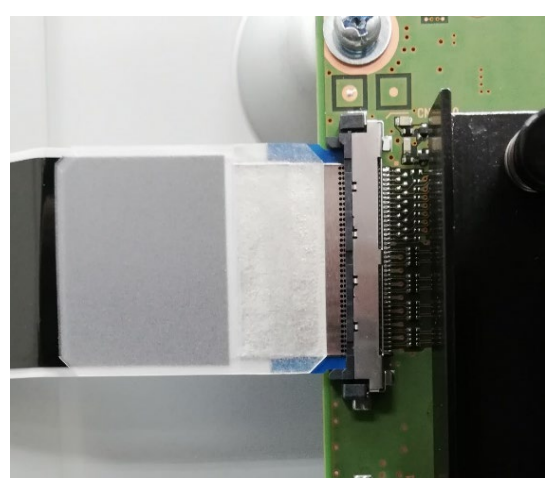
1 Press the release lock button downward at the same time (highlighted in red).

2 Pull FFC in straight direction while pressing both release lock button at the same time.

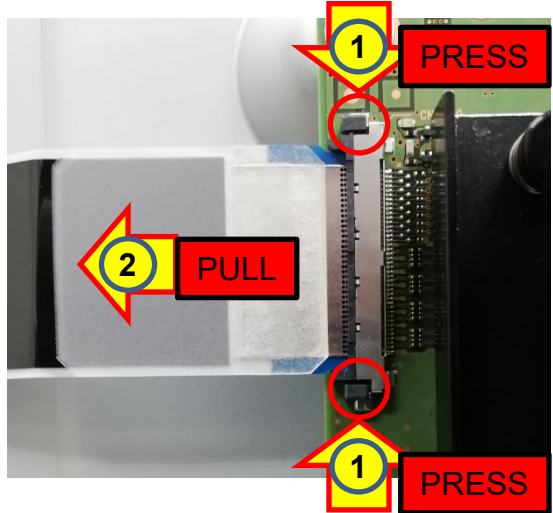
Note: FFC as in image is only for reference purpose. Actual FFC outlook may vary by each vendor.

## WITHDRAWAL OF 41P / 51P FFC CONNECTOR (TYPE2)

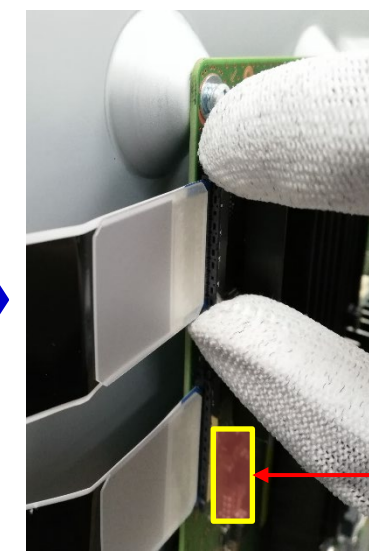
Initial condition



Step 1 & 2



Caution



Ensure fingers does **NOT** touch parts on board and tuner connector when pushing the side locks.

1 Press the release lock button downward at the same time (highlighted in red).

2 Pull FFC in straight direction while pressing both release lock button at the same time.

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



## APPENDIX

## FFC REPLACEMENT CAUTIONS

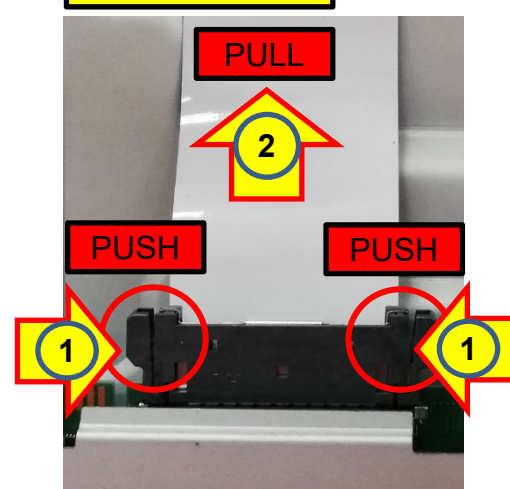
Remark: Refer to Board Location and Connector Diagram

## WITHDRAWAL OF 41P / 51P FFC CONNECTOR (TYPE3)

Initial condition



Step 1 &amp; 2



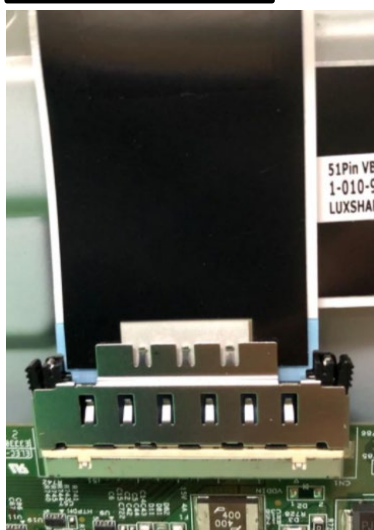
1 Push the side-release lock buttons inward (highlighted in red).

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

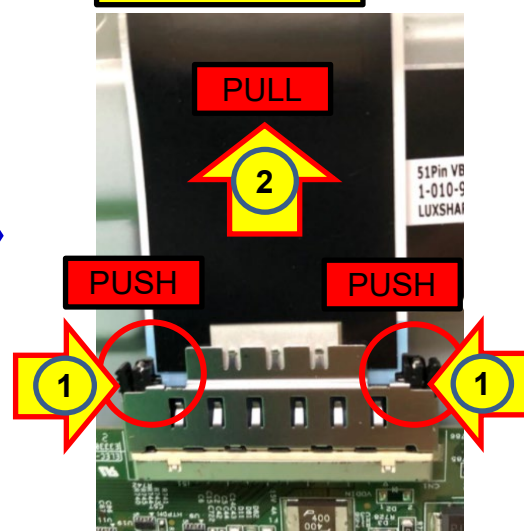
Note: FFC as in image is only for reference purpose. Actual FFC outlook may vary by each vendor.

## WITHDRAWAL OF 41P / 51P FFC CONNECTOR (TYPE4)

Initial condition



Step 1 &amp; 2



1 Push the side-release lock buttons inward (highlighted in red).

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

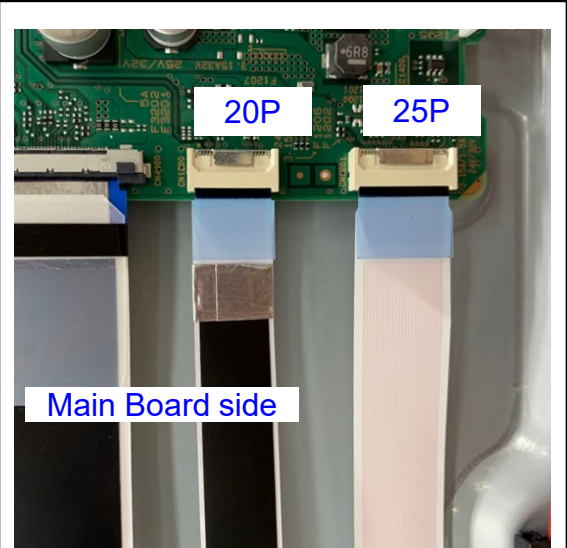
Note: FFC as in image is only for reference purpose. Actual FFC outlook may vary by each vendor.

# APPENDIX

# FFC REPLACEMENT CAUTIONS

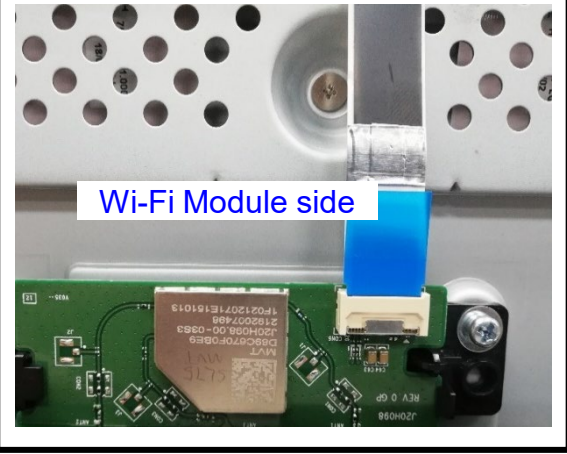
## WITHDRAWAL OF 20P / 25P / 30P FFC CONNECTOR

**Initial condition**



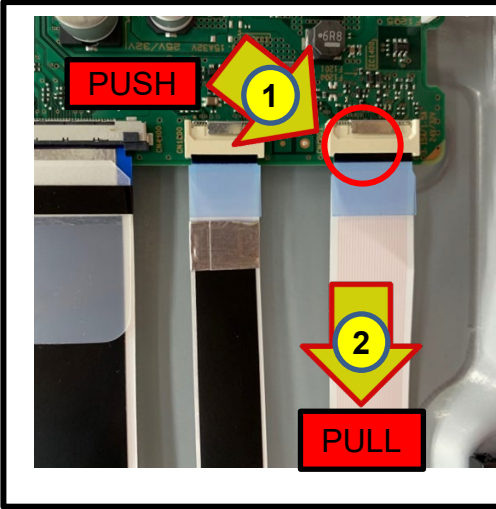
20P 25P

Main Board side

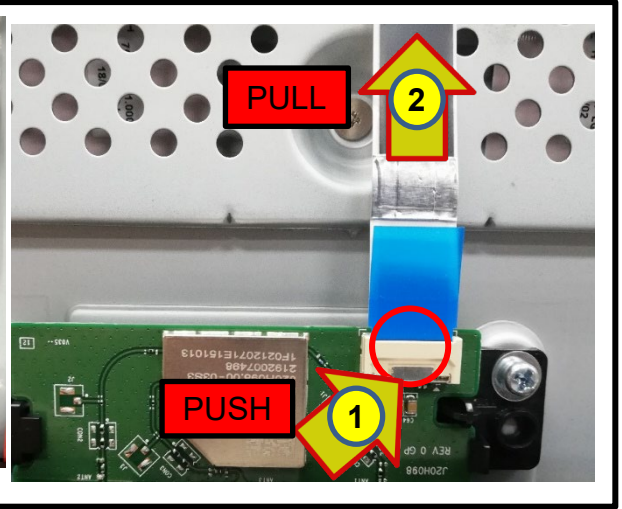


Wi-Fi Module side

**Step 1 & 2**



PUSH 1



PULL 2

PULL 2

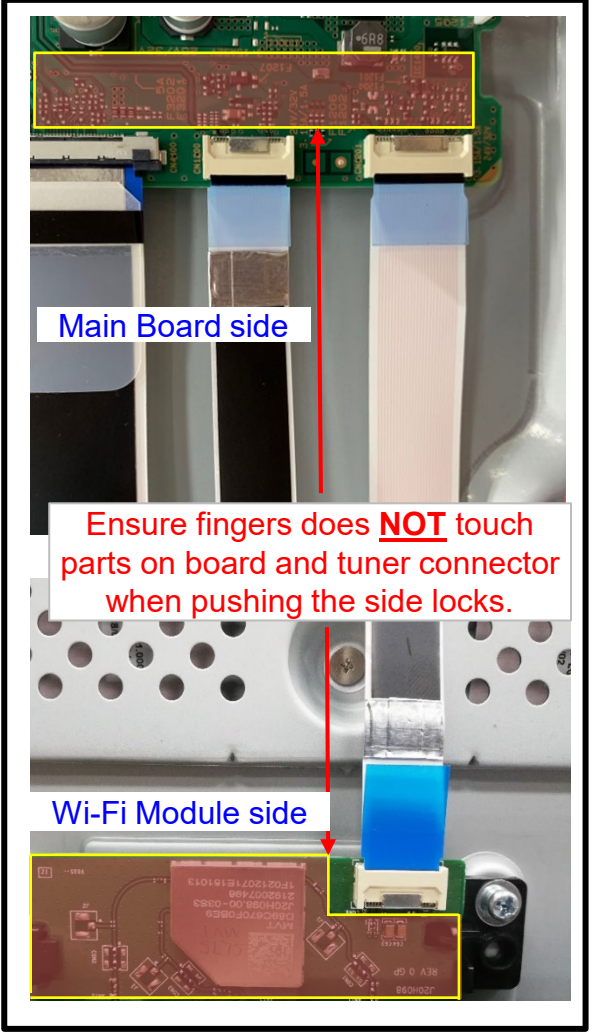
PUSH 1

1 Push the side-release lock buttons inward (highlighted in red).

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

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

**Caution**



Main Board side

Ensure fingers does **NOT** touch parts on board and tuner connector when pushing the side locks.

Wi-Fi Module side

# APPENDIX

# FFC REPLACEMENT CAUTIONS

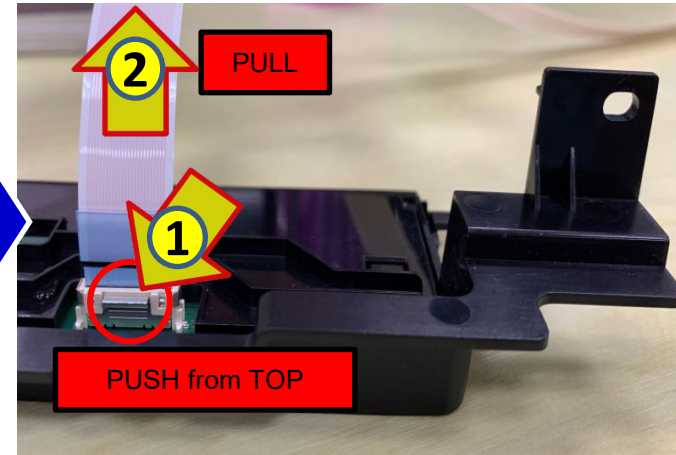
## WITHDRAWAL OF 25P FFC CONNECTOR

Pre-Step Before FFC Removal

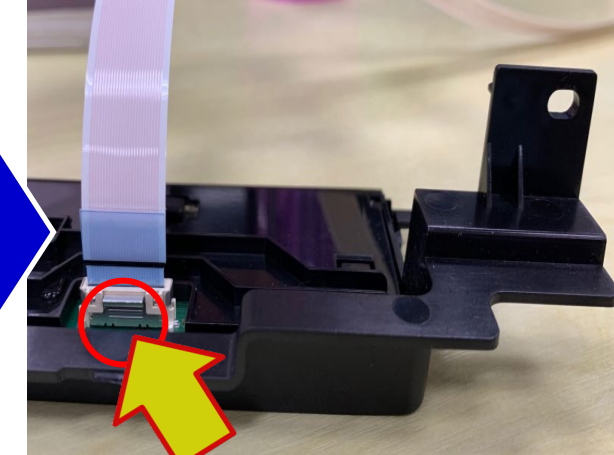


Push Smart Core outwards to dismantle from TV set

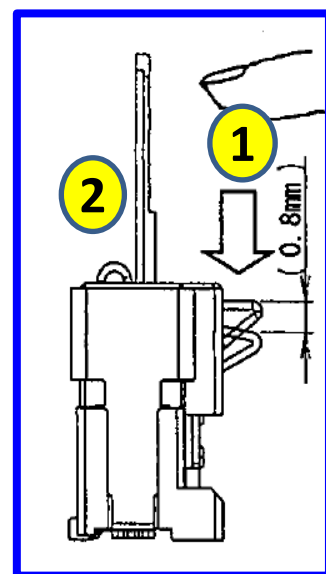
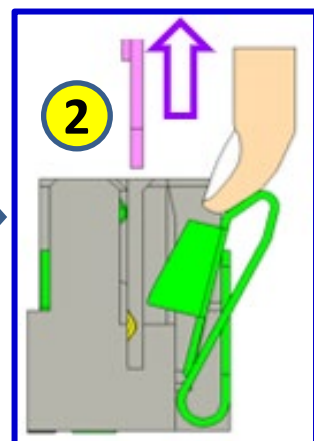
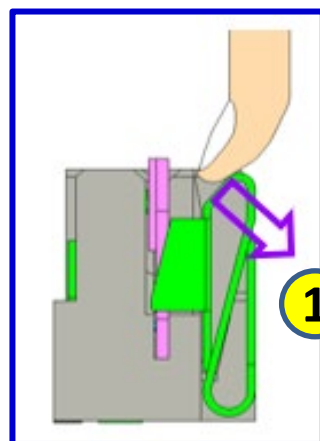
Step 1 & 2



Caution



Do **NOT** push from side as connector will break due to excessive force applied.



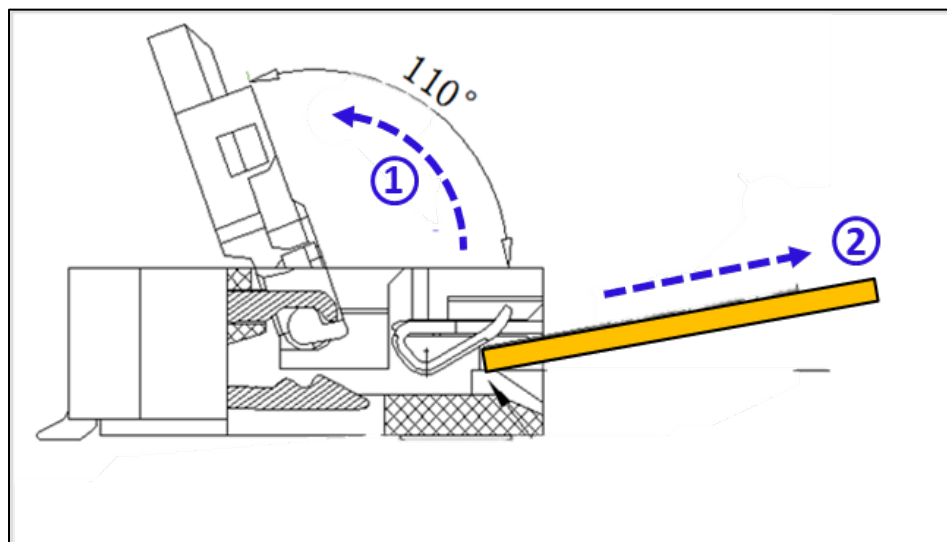
- 1 Push the side-release lock buttons inward (highlighted in red).
- 2 Pull-out FFC in straight direction while pushing side-release lock buttons at the same time.

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

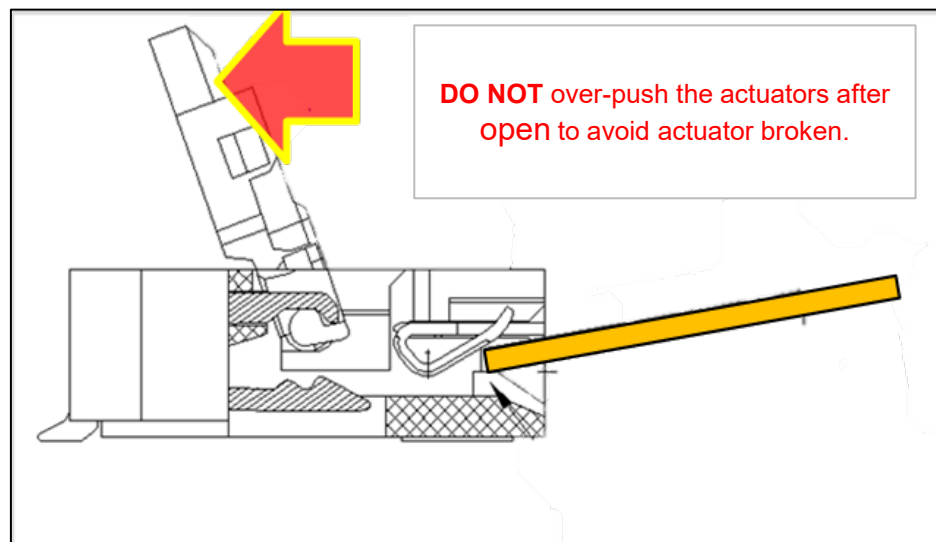
Remark: Release lock mechanism might be different. (depends on connector types)

## WITHDRAWAL OF PANEL MODULE FFC CONNECTOR (60P / 68P / 70P / 80P / 96P / 104P)

## Step 1 &amp; 2



## Caution



- 1 Open and flip actuator.  
**DO NOT** over-push as it may cause actuator broken.

- 2 Pull-out FFC in straight direction.  
**DO NOT** withdraw FFC in slanting direction ( $> 10^\circ$ ).

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

