SERVICE MANUAL (TROUBLESHOOTING)

ORIGINAL MANUAL ISSUE DATE: 2023.12

DISCLAIMER: USE AT OWN RISK. SONY AND ITS AFFILIATES ARE NOT LIABLE FOR ANY DAMAGE OR INJURY CAUSED TO ANY DIGITAL ELECTRONIC EQUIPMENT, PERSON, OR PROPERTY, WHICH OCCURS DUE TO USE OF THE TOOLS, PARTS, DOCUMENTATION, OR OTHER MATERIALS HEREIN PROVIDED, WHETHER FOR REPAIR, DIAGNOSIS, MAINTENANCE, MODIFICATION, OR OTHERWISE, INCLUDING BUT NOT LIMITED TO: ANY INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES; ANY LOSS OF DATA, PRIVACY OR PROFITS; OR ANY INABILITY TO USE, OR REDUCED FUNCTIONALITY OF, THE DIGITAL ELECTRONIC EQUIPMENT. PLEASE READ ALL INSTRUCTIONS IN THIS MANUAL BEFORE PROCEEDING. PLEASE FOLLOW ALL STEPS IN THE ORDER IN WHICH THEY ARE DESCRIBED. IF YOU DO NOT HAVE ALL TOOLS AND PARTS AVAILABLE TO YOU, OR ARE NOT COMFORTABLE PERFORMING THE REPAIRS DESCRIBED HEREIN, DO NOT PROCEED. FAILURE TO FOLLOW THESE INSTRUCTIONS, OR USE THE PROPER TOOLS AND PARTS, MAY DAMAGE YOUR PRODUCT, LEAD TO PERSONAL INJURY OR CAUSE PROPERTY DAMAGE.

9-888-907-21

OLED TV

SONY_®

Sony EMCS (Malaysia) Sdn. Bhd. HES-M © 2023.12

MODEL LISTS

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

MODEL

XR-42A90K XR-48A90K



TABLE OF CONTENTS

Title	Page	Self Diagnosis Supported model
SAFETY NOTES	4	
SELF DIAGNOSIS FUNCTION	12	
TROUBLESHOOTING	15	
SOFTWARE UPDATE & RESET	75	
DIAGRAMS	78	
HANDLING GUIDE	80	
		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 an actual sets

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 of time.

*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.

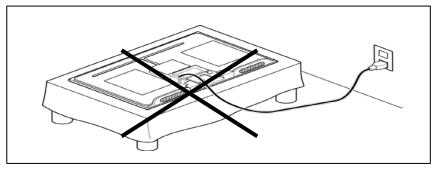
*Always clean the panel with a soft cloth material.

*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.

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





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.

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 of time.

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°C and 40 °C.

Pixel shift.

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

Other feature.

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

1-3. Caution_for_Board_handling.

Symptom : 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)

XThings to prepare in advance.



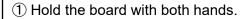
ESD cushion/sheet.

Please use a bag containing the board or a special seat.





ESD wrist-strap to be checked daily. Use Multi-meter to make sure resistance of ESD wrist-strap is OK. (R=750K Ohms to 35Mega Ohms) 1) Caution for Board handling(Stress) Be sure to observe the following contents.







② Do not hold/push Heat-Sink.





③ Handle with care. Do not swing.



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





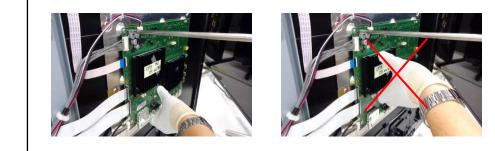
5 Do not stack up.



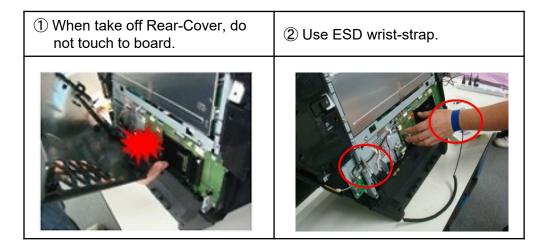
(6) Keep vertical position and put in/take out from Box.Always put into ESD bag then place into Box/Container Box.



O Do not hold Heat-Sink when dis-assembly or assembly it.

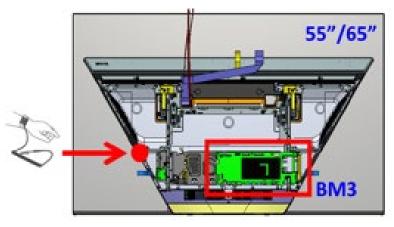


2) Caution for Board handling(ESD).Be sure to observe the following contents.

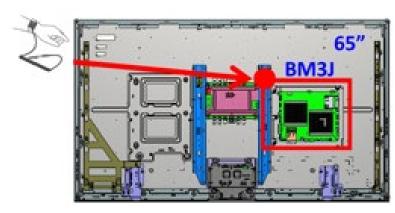


XInstallation example of wrist-strap.

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>



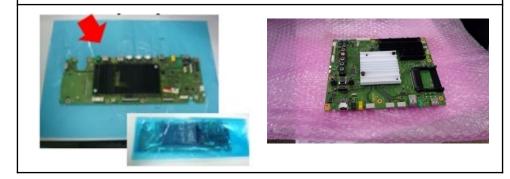
%Caution

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/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.

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 highwattage resistors.

3) Check all control knobs, shields, covers, ground straps and mounting hardware have been replaced. Be absolutely 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 - 1 MHz. Refer Figure 2. Isolated type volt -meter (FLUKE 8921A etc *1).

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

Leakage current of measurement instrument is less than 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).

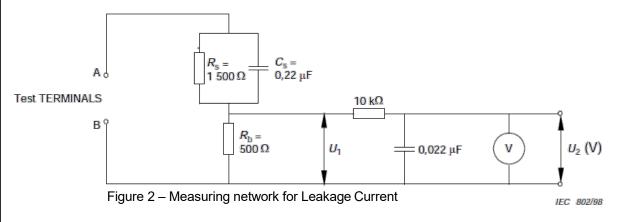
Measure the leakage current between one phase conductor and neutral for terminal A and terminal B.

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.



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).

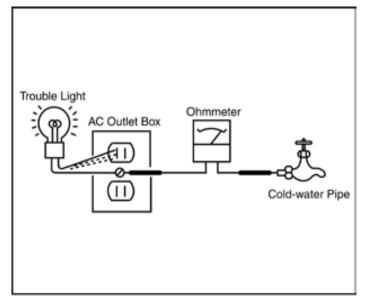


Figure 3. Checking for earth ground.

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.



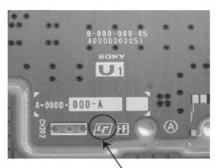


Figure 4: LF Logo

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
2x	MAIN_POWER	<b g=""> Main 12V over voltage
37	DC_ALERT	<b g=""> Main 5.0V failure
3х	AUD_ERR	<b g="" s=""> Audio amp. protection
4	LD_ERR	<p b="" g="" t="">TCON internal error/TCON I2C communication failure</p>
4x	BCM_ERR	<p b="" g="" t=""> EVDD failure</p>
5x	P_ID_ERR	<p b="" g="" t=""> Panel ID EEPROM I2C No ACK (Also panel power failure is a suspect) <t b="">Data corruption in EEPROM</t></p>
6x	BACKLIGHT_ERR	<p b="" g=""> EVDD over voltage</p>
7x	TEMP_ERR	<p b=""> Over temperature protection</p>
8x	4KBE_ERR	 4KBE failure (4KBE WDT)

Blue italic: detect at startup sequence only.

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

SELF DIAGNOSIS FUNCTION

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

Error Item	Detection Items			
AUD_ERR_I2C	 Audio amp I2C communication failure			
TEMP_ERR_I2C	<b h=""> Temp sensor I2C communication failure			
TU_DEMOD_I2C	 Tuner & Demodulator I2C communication failure			

Notes : : Main board, <H>: LED / IR & sensor board

SELF DIAGNOSIS FUNCTION

Retry Limitation by Remote/Power Key

Smart Core Red LED blinking count	Error Name	Retry Permission Times *1	Note		Number of off/on action for MAIN POWER
2x	MAIN_POWER	STDWN_RTRY_LIMIT_MAINPOWR = 1		\rightarrow	shutdown is recorded to STDWN OFFON CNT MAIN POWER.
3x	DC_ALERT (5V)	STDWN_RTRY_LIMIT = 2			
JX	AUD_ERR	STDWN_RTRY_LIMIT = 2			
4x	LD_ERR	STDWN_RTRY_LIMIT = 2			Number of off/on action during the
4X	BCM_ERR	STDWN_RTRY_LIMIT = 2		$\left \right\rangle$	error shutdown is recorded to
5x	P_ID_ERR	STDWN_RTRY_LIMIT = 2			STDWN_OFFON_CNT.
6x	BACKLIGHT	STDWN_RTRY_LIMIT = 2			
7x	TEMP_ERR	STDWN_RTRY_LIMIT = 2			
8x	4KBE_ERR	STDWN_RTRY_LIMIT = 2		\mathcal{V}	

*1) If STDWN_OFFON_CNT <= STDWN_RTRY_LIMIT, and STDWN_OFFON_CNT_MAIN_POWER <= STDWN_RTRY_LIMIT_MAINPOWR, 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.

Triage Chart

Before you make the service call:

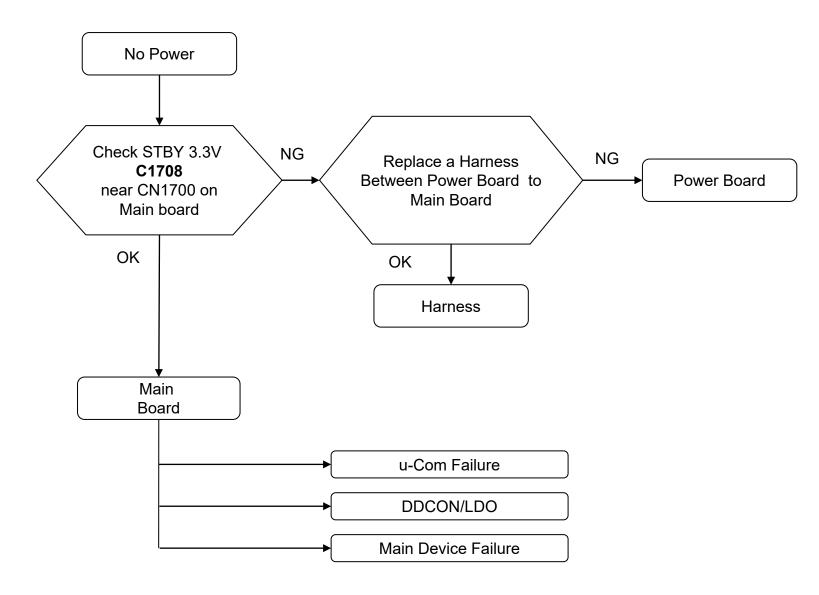
- 1. Confirm the symptom from the customer.
- 2. Select that symptom from the chart.
- 3. Bring all the boards and cables listed for that symptom.
- 4. Follow the troubleshooting charts in the technical guides to isolate the board.
- 5. Chart Color Code: : Most likely defective part
 - ▲ : Secondary possible defective part

: Tertiary possible defective part

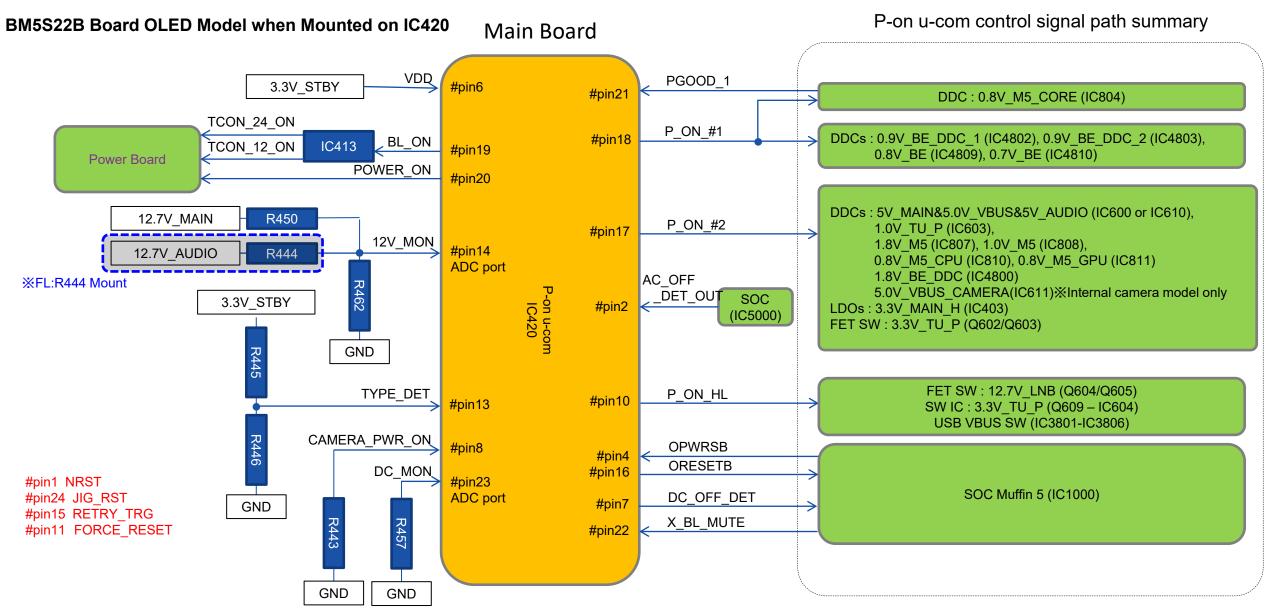
BLACK TEXT: Board that may correct the symptom

				ns - Shutdown. Po red diagnostics s									no shutdo ecord onl					No Power		missin	Video g or di៖	storted		Remote	Network	Audio	Smart Core	Bluetooth (BT)
Reference	2	3	4	5	6	7	8	TU_ Demod	TU_ DEMOD _12C	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	One of		No video of Camera		Operation	Cannot connect to Wireless Network	No Audio	no LED	Bluetooth / One Step Remote (OSR) can't connect
Main Board		•	-	•		•	•		•			•		•						•	•		•			•		
Power Board	•		•	•														•										
Receiver Board														•				A						•			•	
Actuator (Panel module)																										•		
Speaker (Sub-woofer)																										•		
Wi-fi & BT Module																									•			•
V By One FFC				A																								
T-con (Panel module)			•	•															•				•					
OLED Panel (Panel module)			•		•	•													•				•					
Camera																						•						
(accessory) Problem	Power	Power	Panel module T-con Power	Panel (Communication) T-con	Panel Power	TEMP	4KBE												1	I						1	1	
		Auuio	rower	1-0011				1																				

1.0 No Power

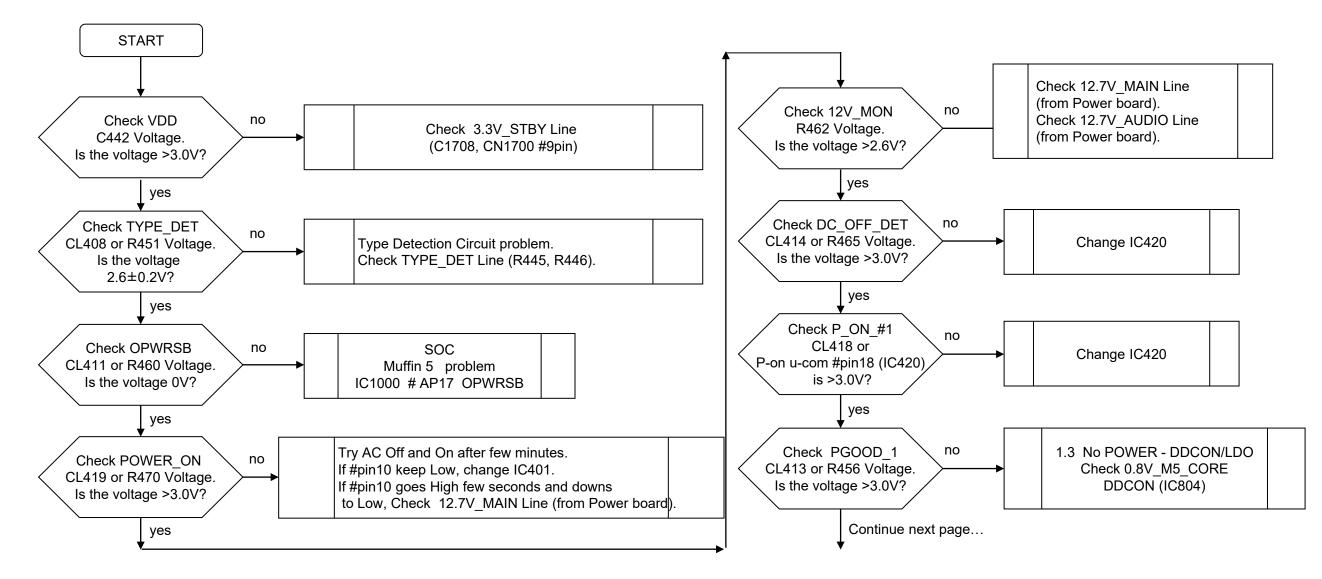


1.2 No Power u-com Failure



1.2 No Power u-com Failure

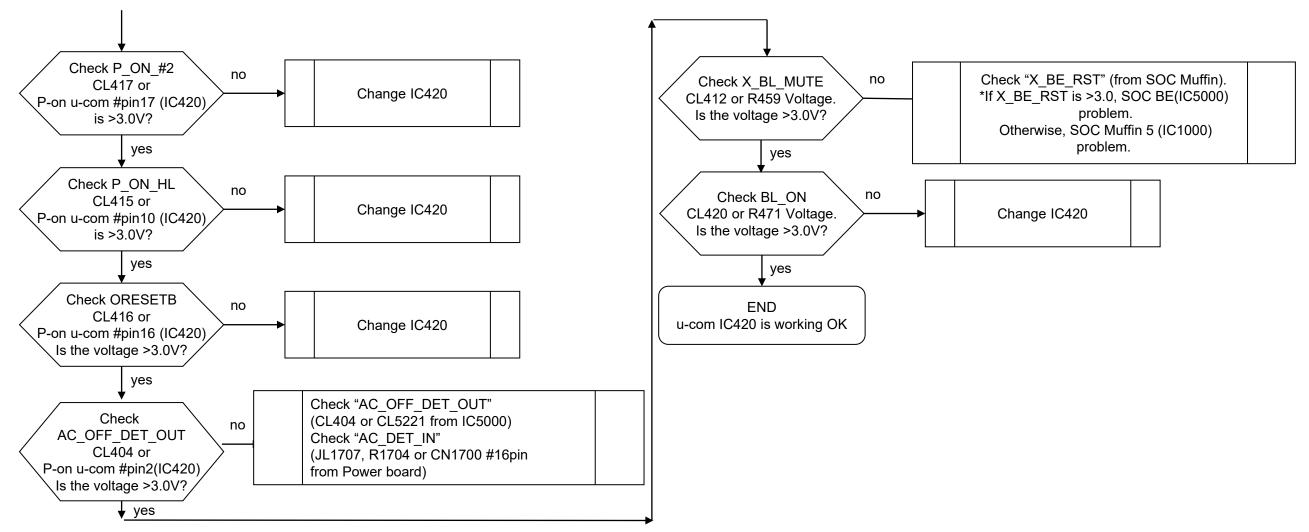
BM5S22B Board OLED Model when Mounted on IC420



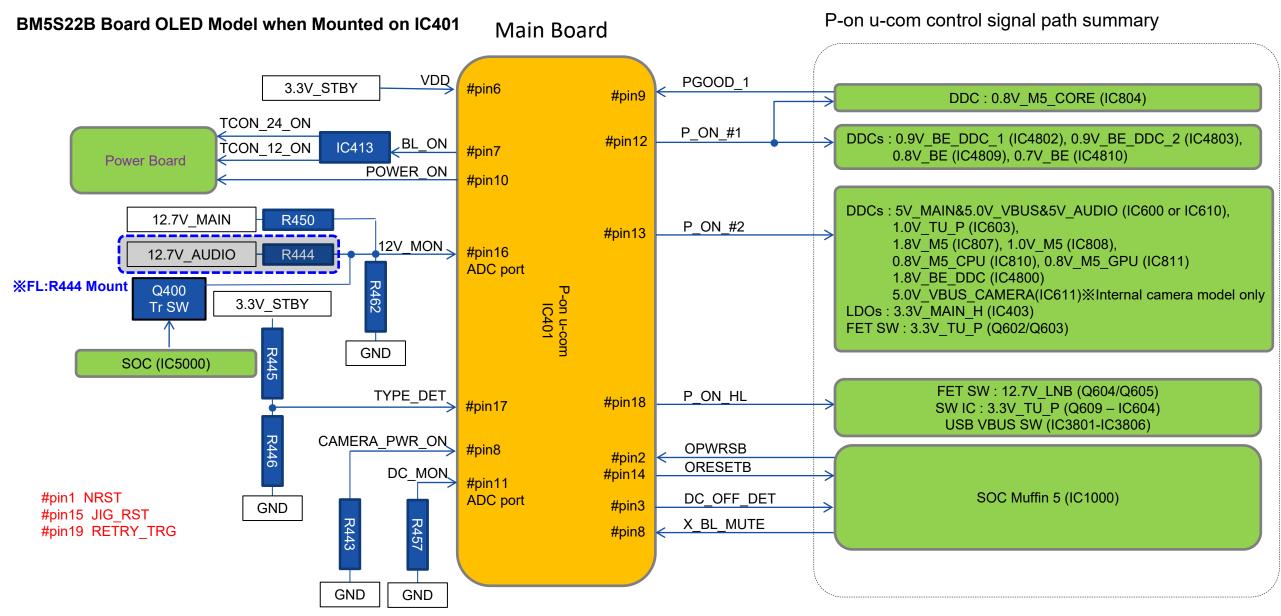
1.2 No Power u-com Failure

BM5S22B Board OLED Model when Mounted on IC420

Previous page



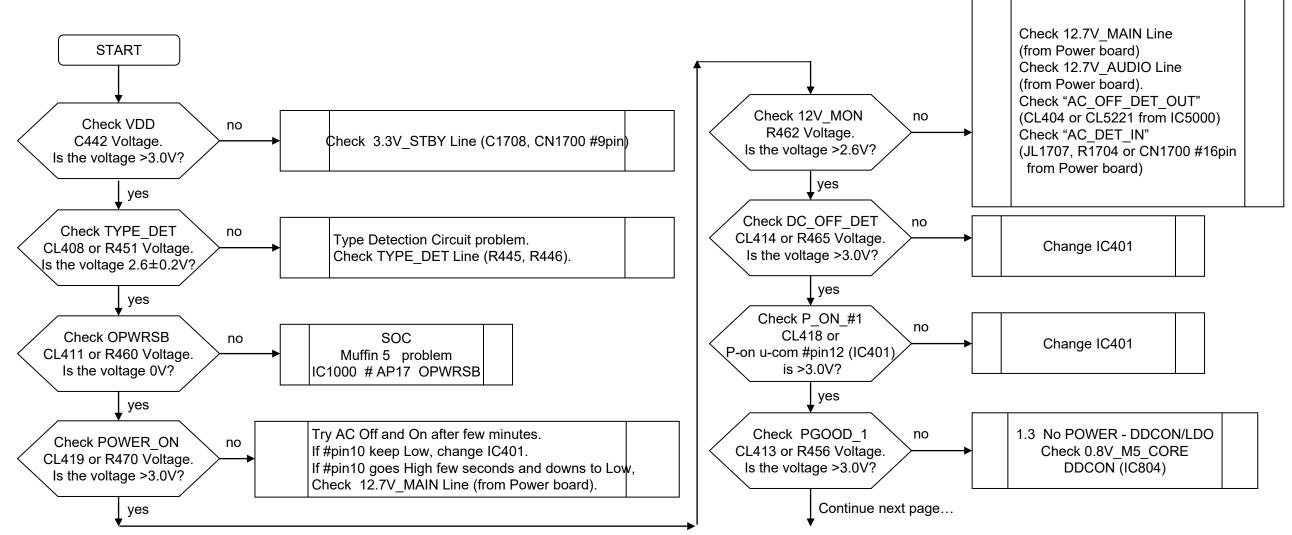




20 SYS SET

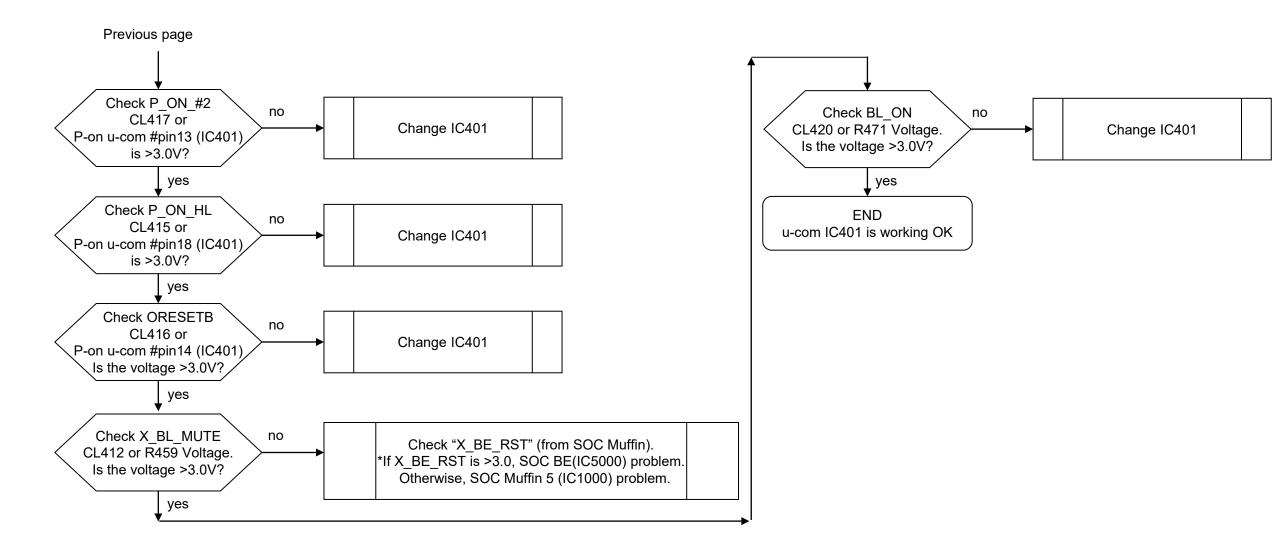
1.2 No Power u-com Failure

BM5S22B Board OLED Model when Mounted on IC401



1.2 No Power u-com Failure

BM5S22B Board OLED Model when Mounted on IC401



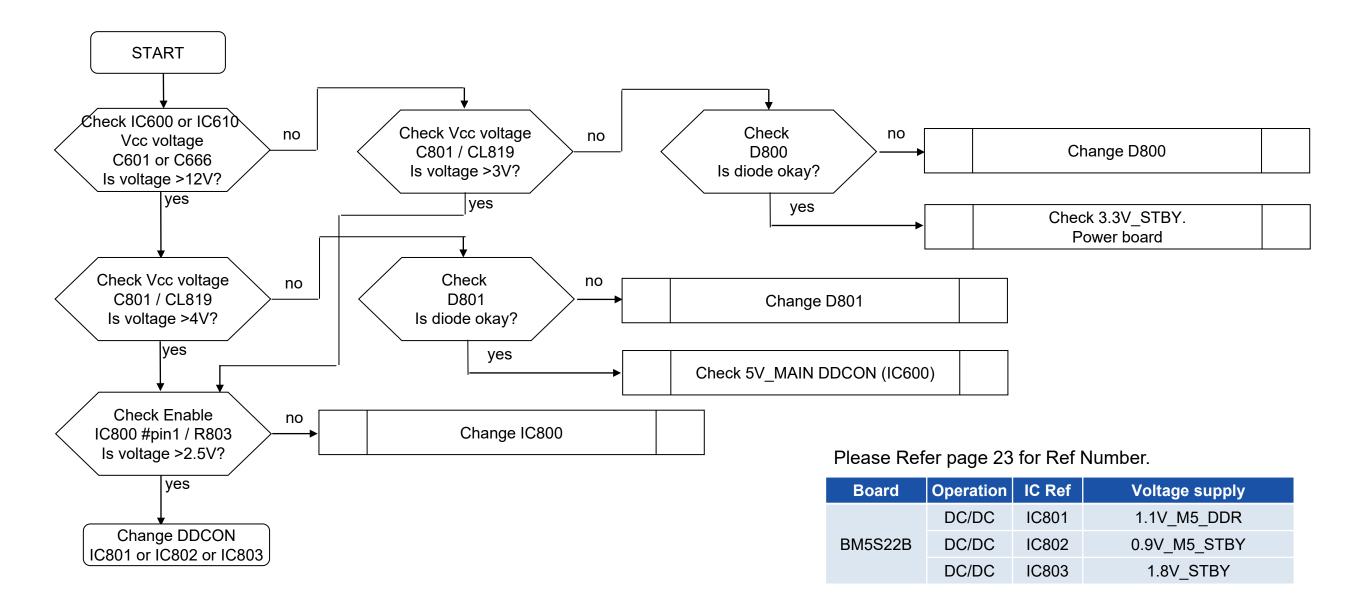
1.3 No Power DDCON/LDO

Board	Operation	IC Ref	Voltage supply	Output ref.	Enable pin	Enable source	Fuse	Vcc ref.
	DC/DC	IC418 or IC419	5.0V_STBY_H	C508 or C514 /JL1212	R557	R557(3.3V_STBY)	-	C505 or C511
	LDO	IC403	3.3V_MAIN_H	C416/CL402	R413(shorted)	P_ON_#2	-	C415
	DC/DC	IC600 or IC610 5V_MAIN/5V_AUDIO		C610 or C673/JL601	R600 or R670/ CL604 or CL615	P_ON_#2	F600 or F602	C601 or C666
	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	IC611	5.0V_VBUS_CAMERA	C682/JL635	R681/CL616	P_ON_#2	F603	C681
	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
BM5S22B	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		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	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

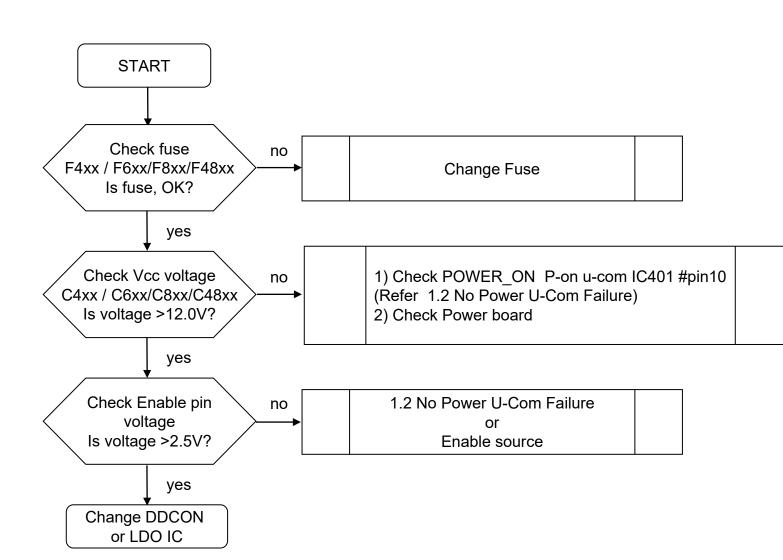
P_ON_#1 : P-on u-com IC401 #pin12 P_ON_#2 : P-on u-com IC401 #pin13

23

1.3 No Power DDCON/LDO (DDCON Check)



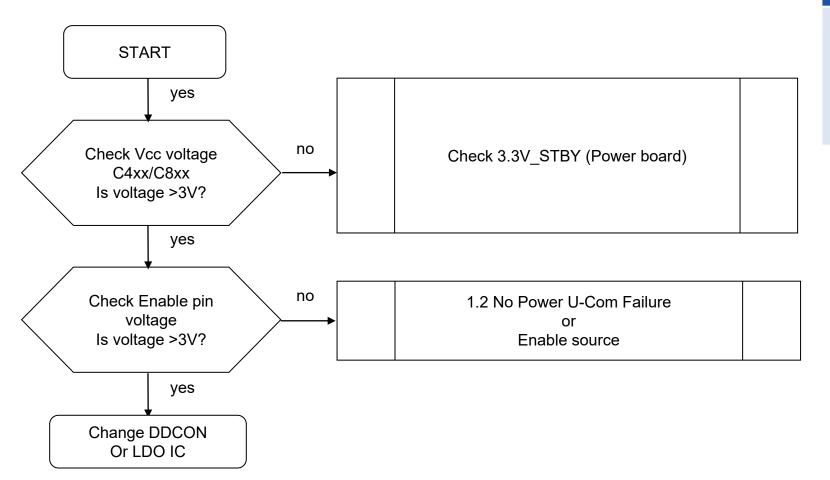
1.3 No Power DDCON/LDO (DDCON Check)



Please Refer page 23 for Ref Number.

Board	Operation	IC Ref	Voltage supply
	DC/DC	IC600 or IC610	5V_MAIN/5V_AUDIO
	DC/DC	IC601	3.3V_MAIN/3.3V_AUDIO
BM5S22B	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
Board	Operation	IC Ref	Voltage supply
	DC/DC	IC4800	1.8V_BE_DDC
	DC/DC	IC4801	1.1V_BE
DMECOOD	DC/DC	IC4802	0.9V_BE_DDC_1
BM5S22B	DC/DC	IC4803	0.9V_BE_DDC_2
	DC/DC	IC4809	0.8V_BE
	DC/DC	IC4810	0.7V_BE

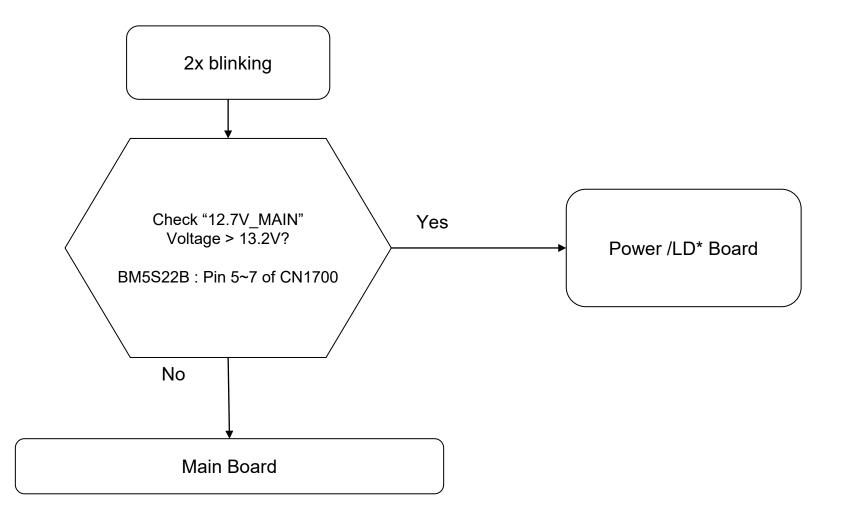
1.3 No Power DDCON/LDO (DDCON Check)



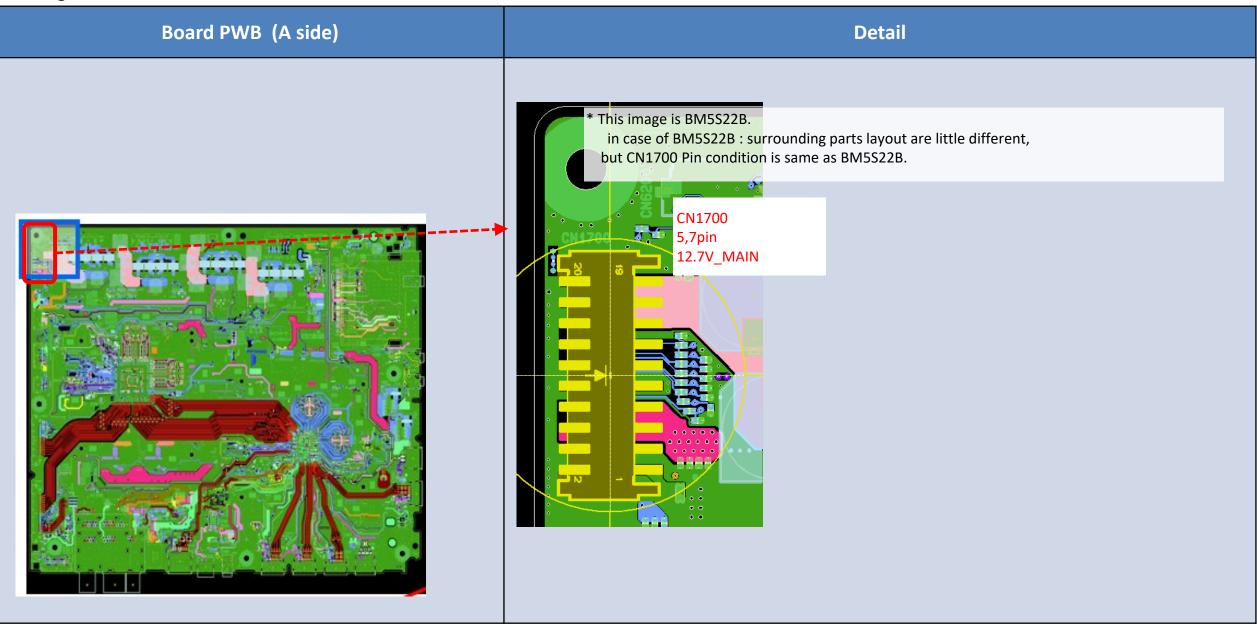
Please Refer page 23 for Ref Number.

Board	Operation	IC Ref	Voltage supply
		IC418	
	DC/DC	or	5.0V_STBY_H
		IC419	
BM5S22B	LDO	IC403	3.3V_MAIN_H
	LDO	IC806	1.8V_M5_ET_STBY
	LDO	IC809	3.3V_M5_STBY

2.0 LED Blinking: 2x (Main Power Error)

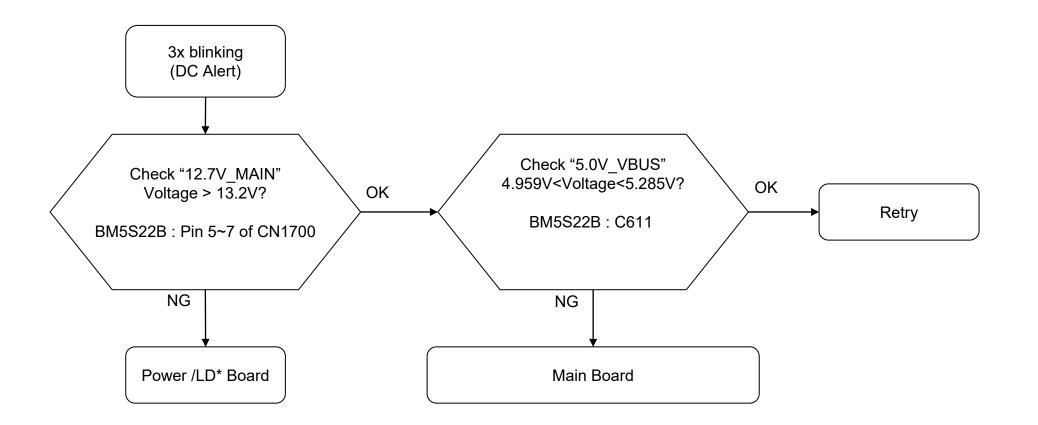


Checking Point



28

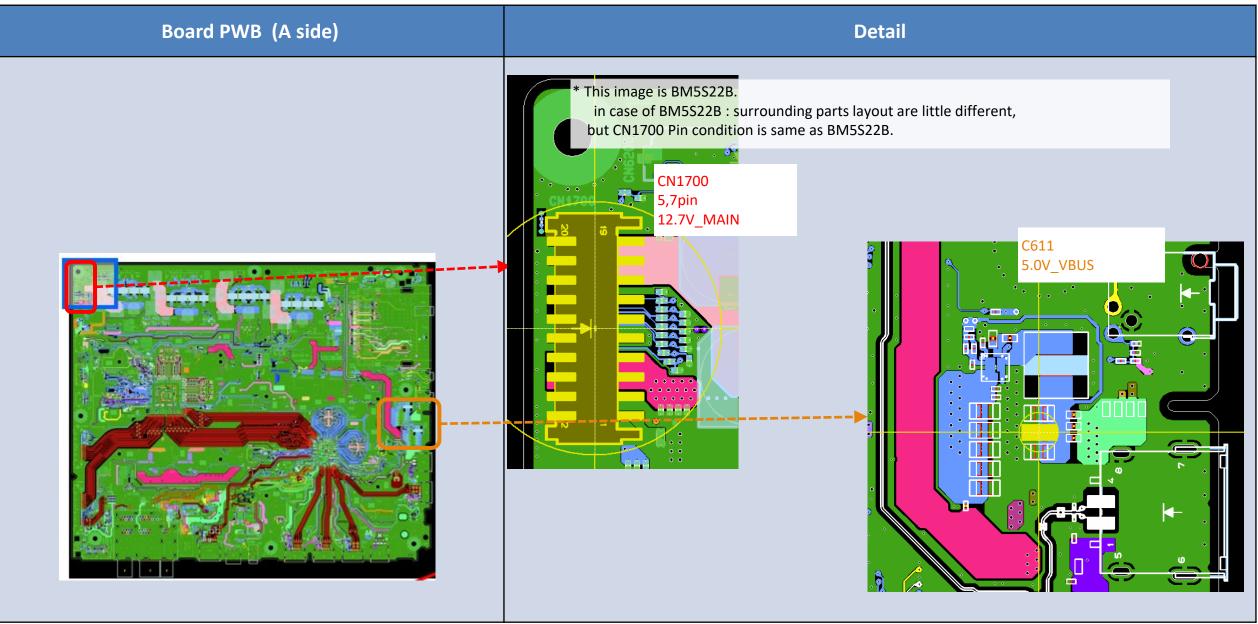
2.1 LED Blinking: 3x (DC ALERT)



Detail of 3x LED Blinking

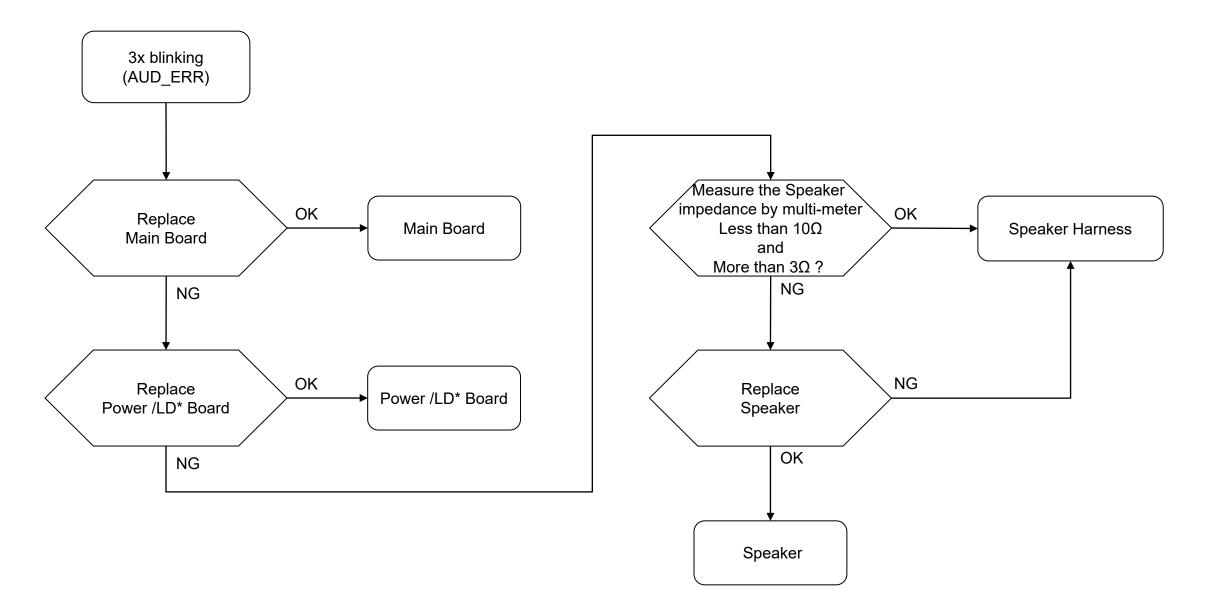
Error Item	Number of STBY LED Blinking	Description
DC_ALERT	3	Main 5V power failure
AUD_ERR	3	Audio amp. protection

Checking Point



31

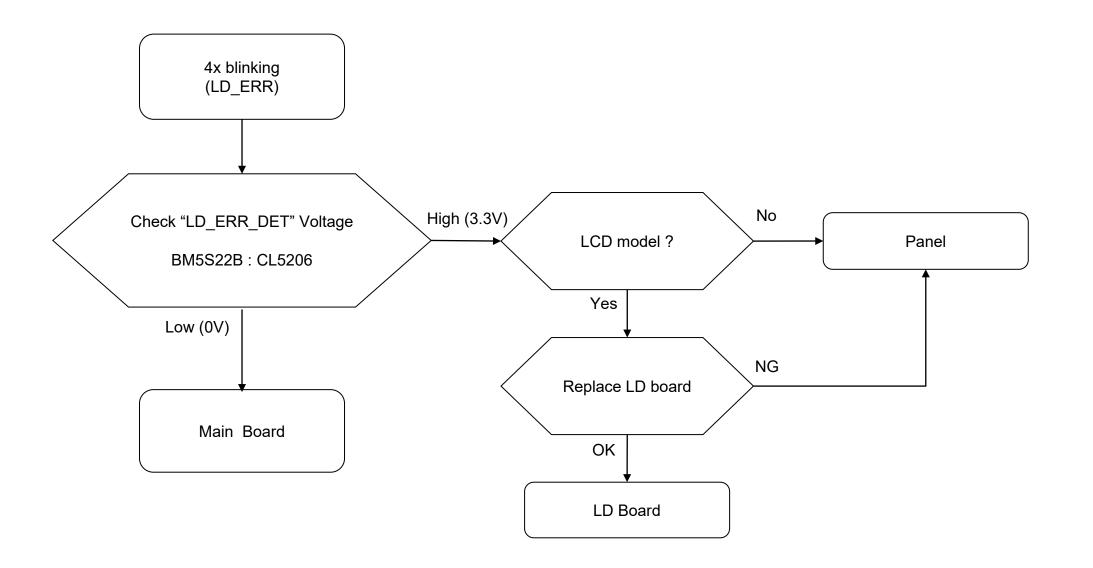
2.2 LED Blinking: 3x (AU ERR)



Detail of 3x LED Blinking

Error Item	Number of STBY LED Blinking	Description
DC_ALERT	3	Main 5V power failure
AUD_ERR	3	Audio amp. protection

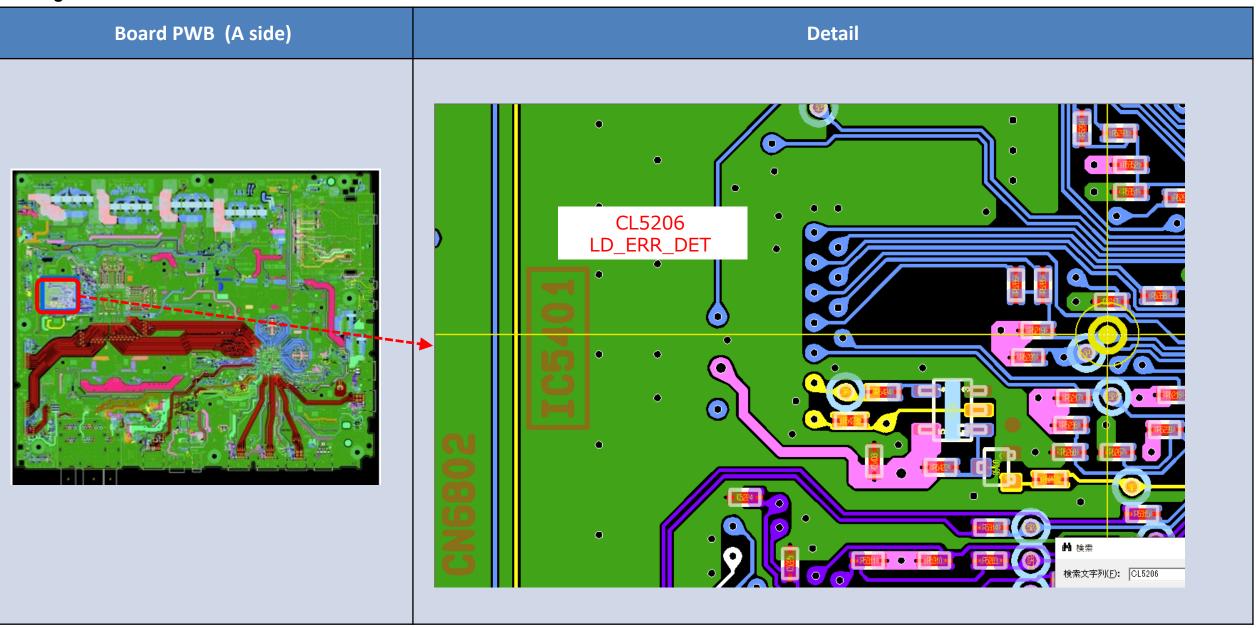
2.3 LED Blinking: 4x (LD_ERR)



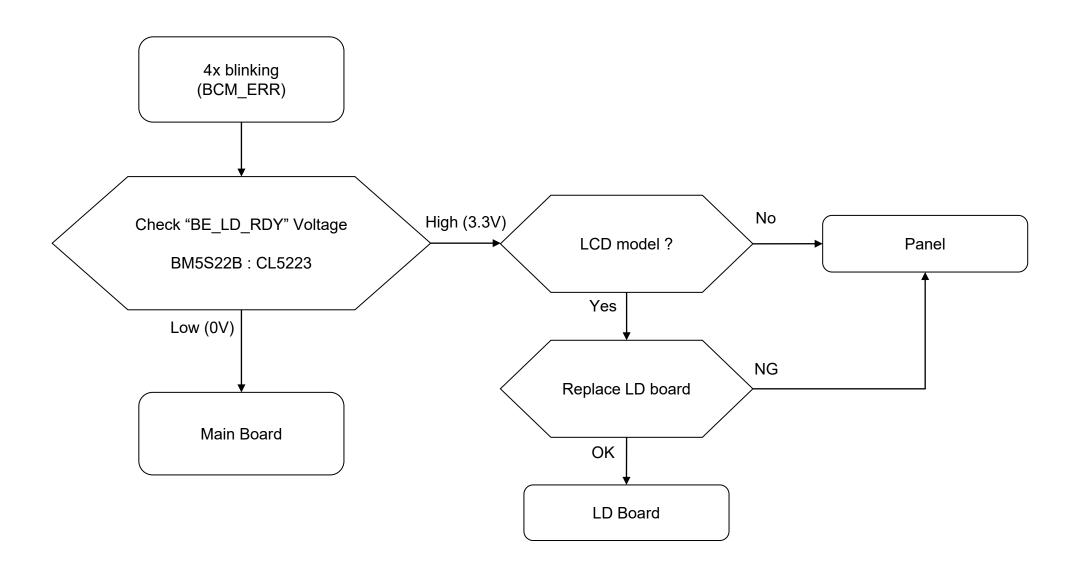
Detail of 4x LED Blinking

Error Item	Number of STBY LED Blinking	Descrip	Description				
LD_ERR	4	LCD	LED driver failure/LED voltage protection				
		OLED	TCON internal or I2C communication failure				
BCM_ERR	4	LCD	LD IC initialize or I2C communication failure				
		OLED	Panel power failure				

Checking Point



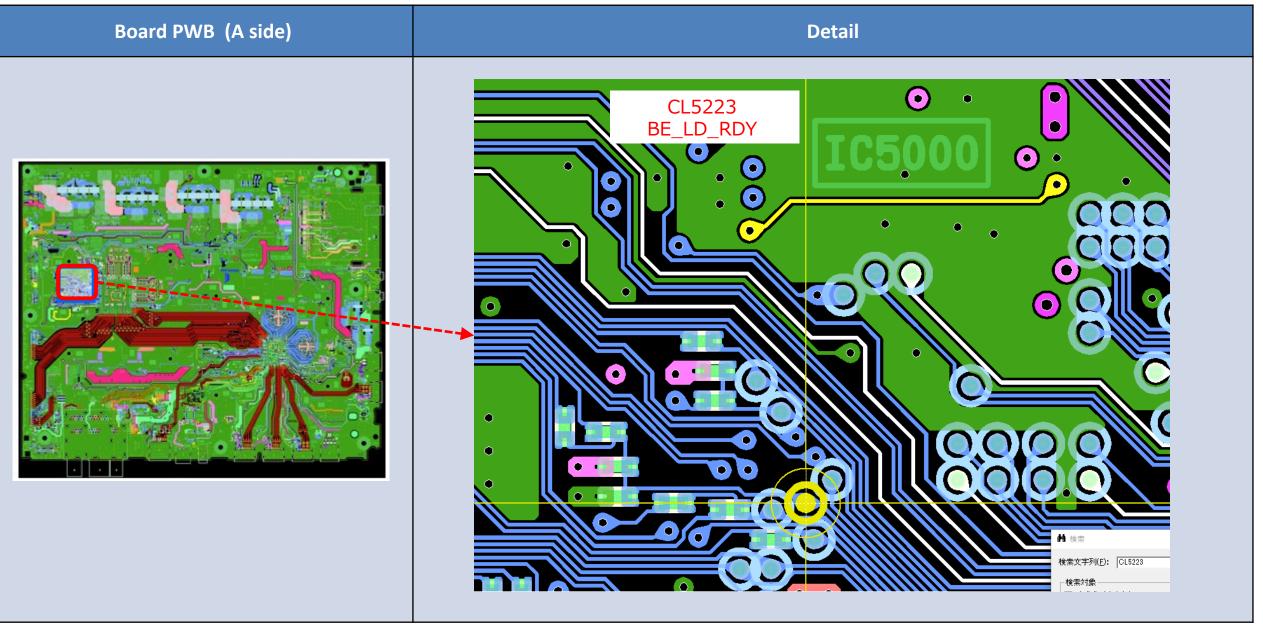
2.4 LED Blinking: 4x (BCM_ERR)



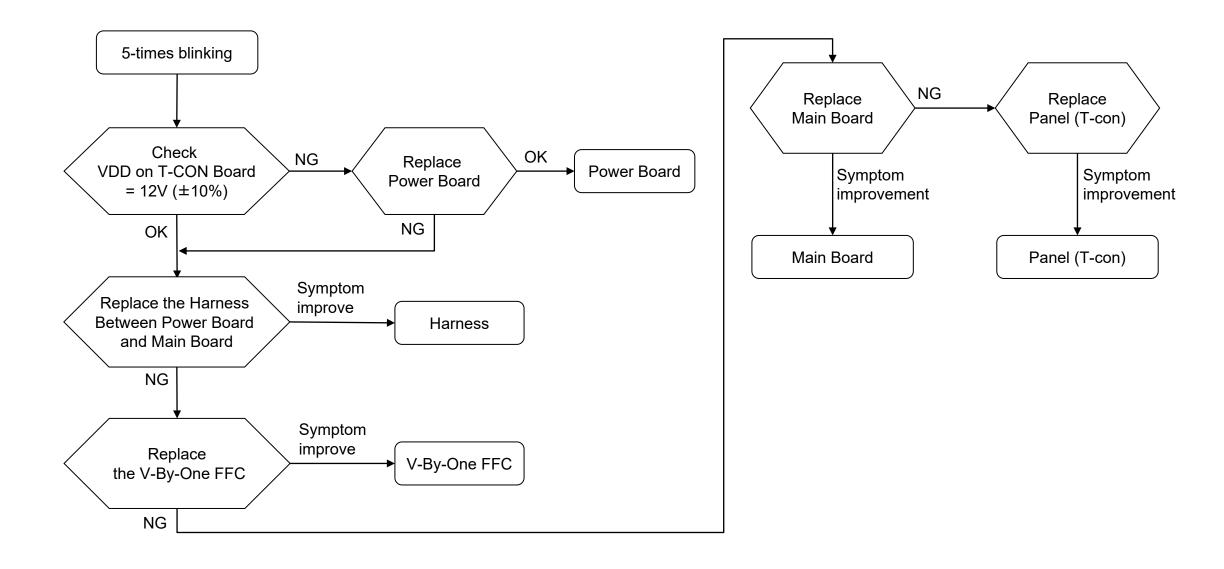
Detail of 4x LED Blinking

Error Item	Number of STBY LED Blinking	Description	
LD_ERR	4	LCD	LED driver failure/LED voltage protection
		OLED	TCON internal or I2C communication failure
BCM_ERR	BCM_ERR 4 LCD LD IC initialize or 12		LD IC initialize or I2C communication failure
		OLED	Panel power failure

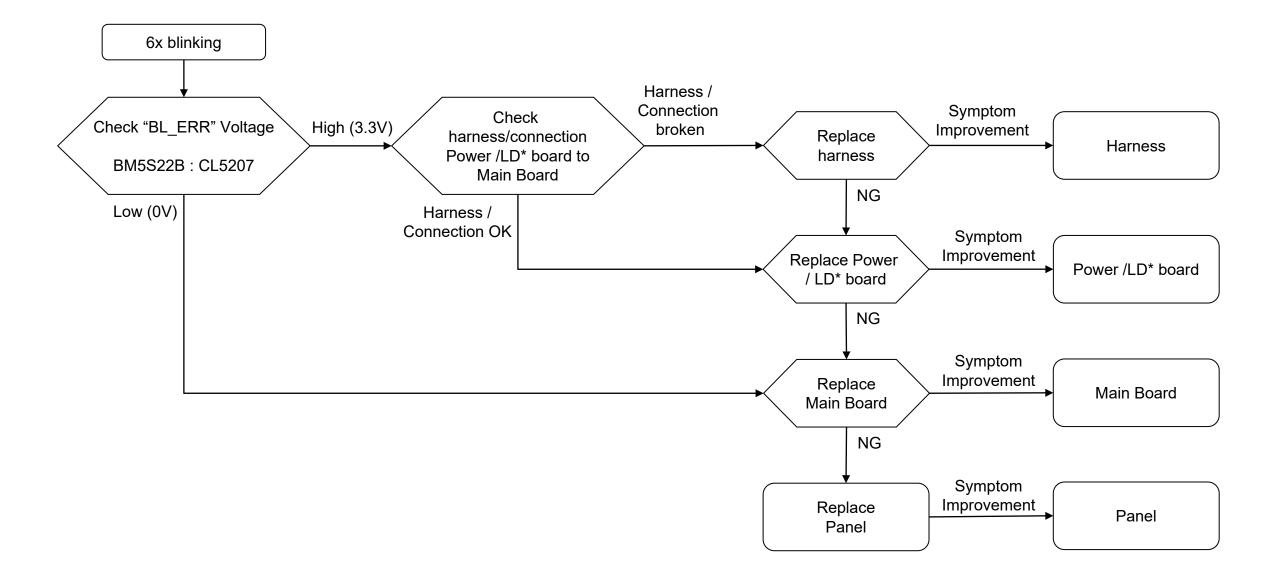
Checking Point



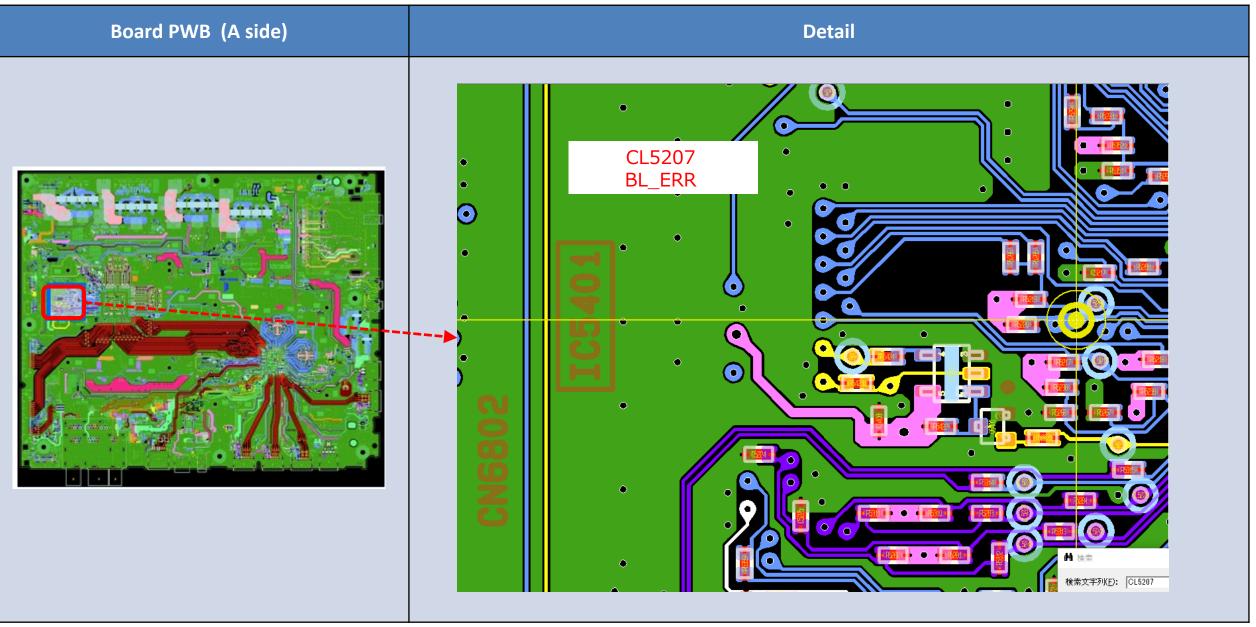
2.5 LED Blinking: 5x (P_ID_ERR)



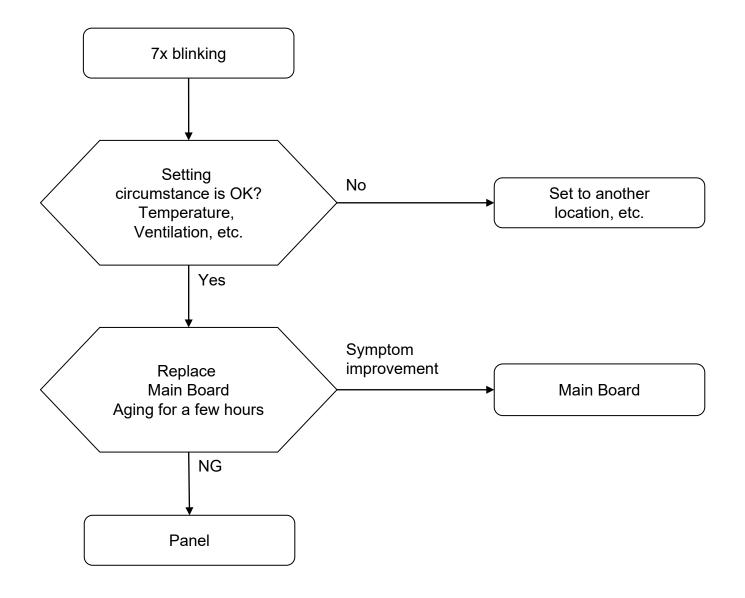
2.6 LED Blinking: 6x (Backlight Error)



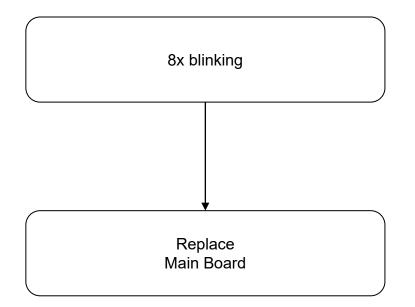
Checking Point



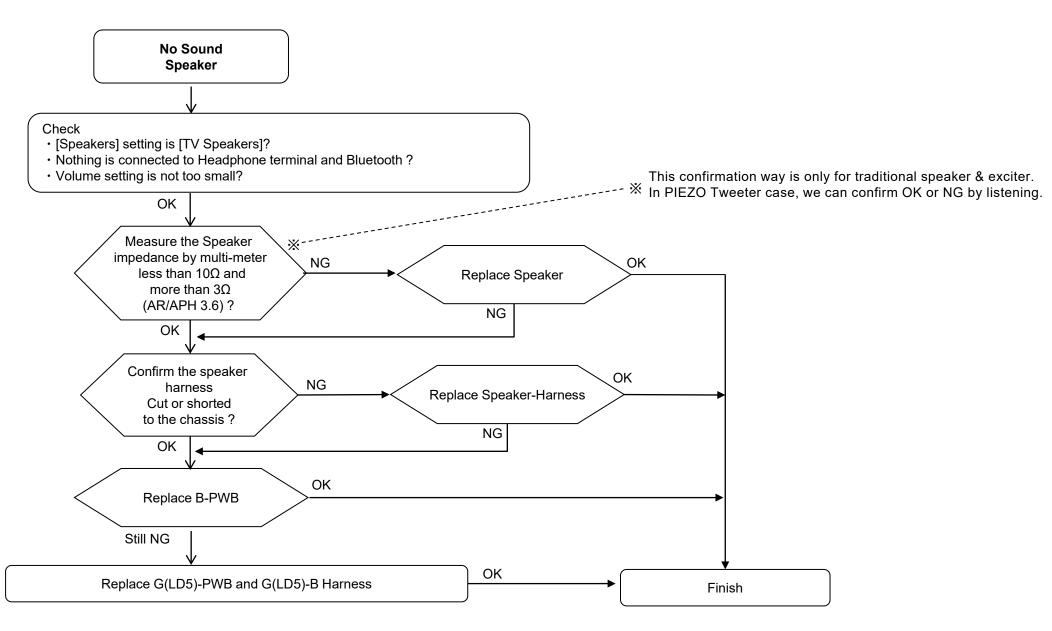
2.7 LED Blinking: 7x (Temperature Error)



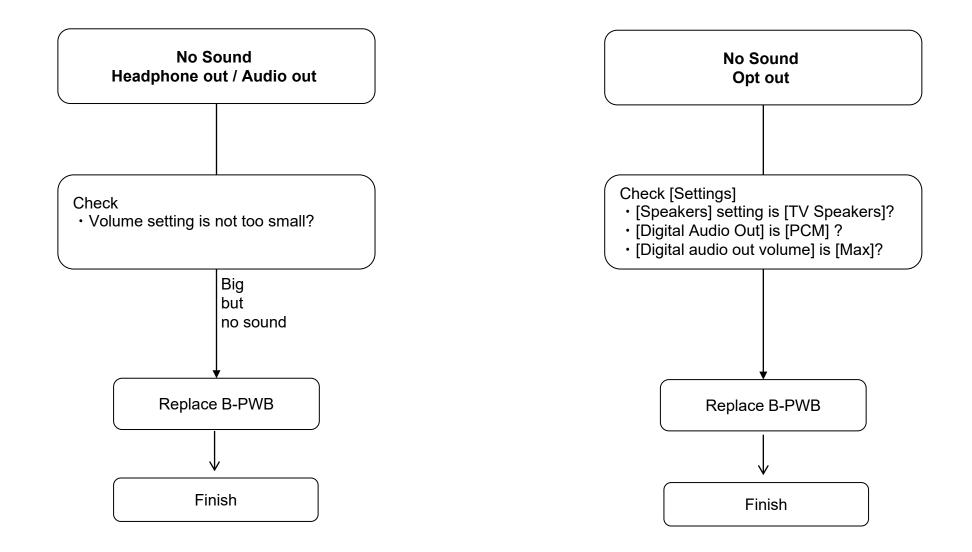
2.8 LED Blinking : 8x Blinking (4KBE_ERR)



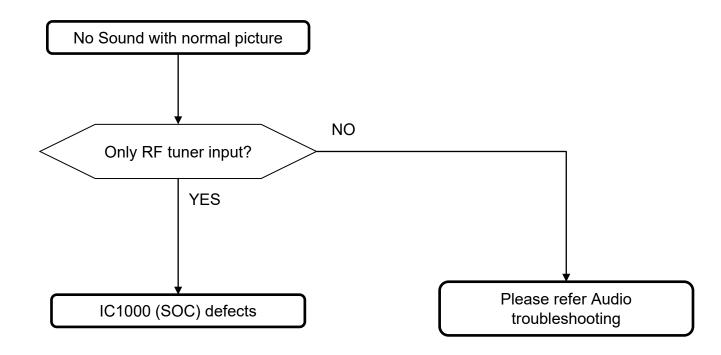
3.1 No Sound for Speaker



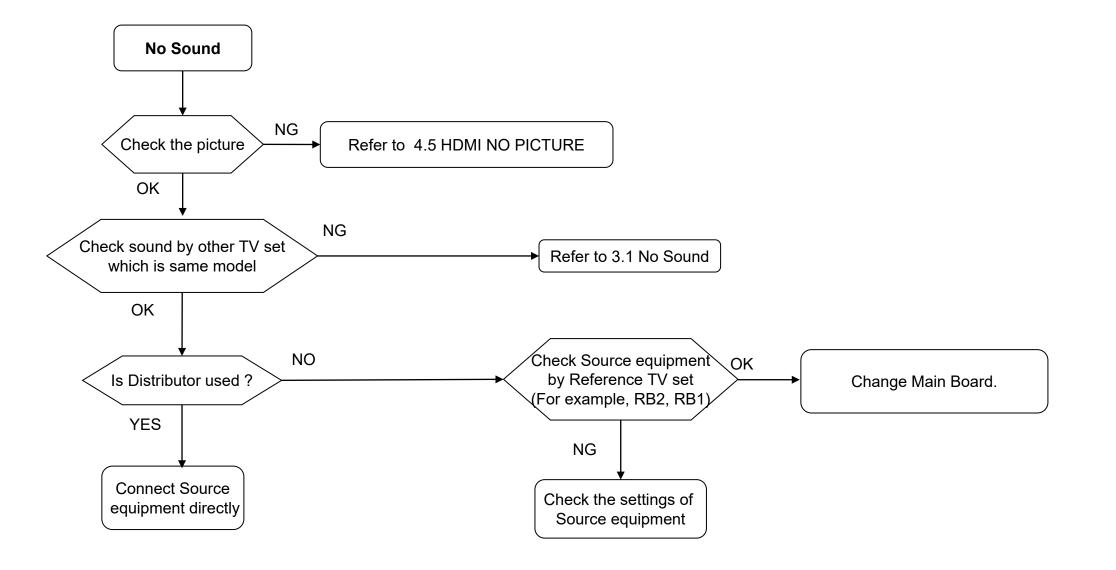
3.2 No Sound for Headphone out/ Audio out/Optical out



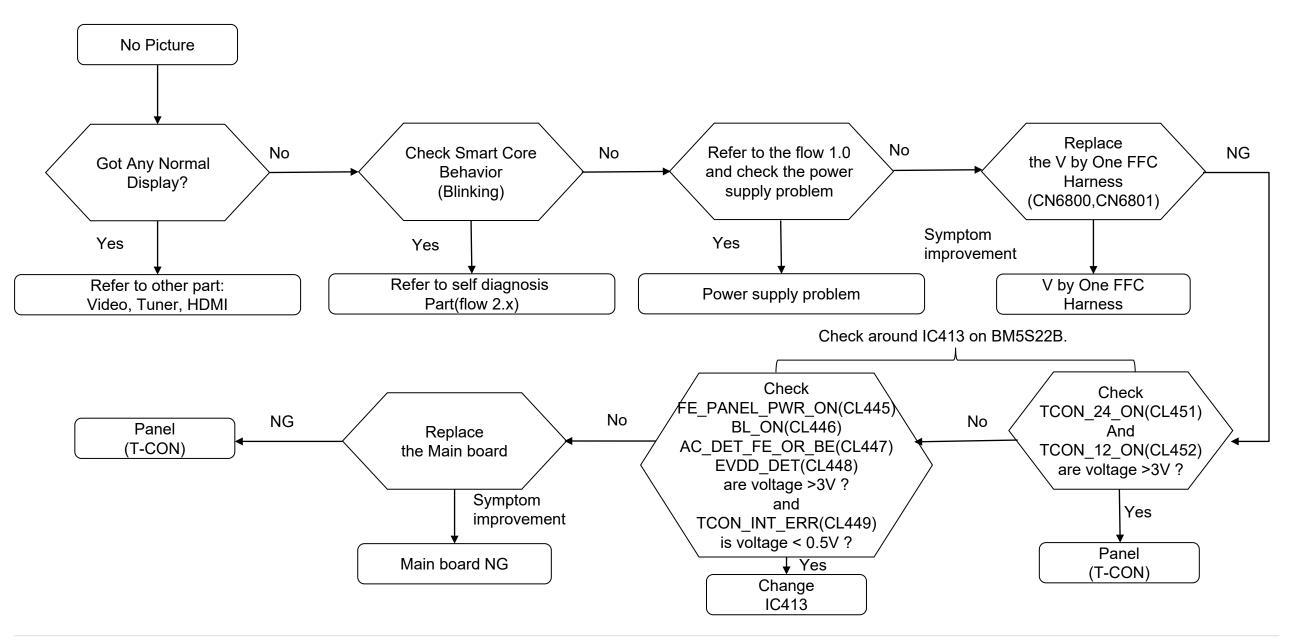
3.7 No Sound at Tuner



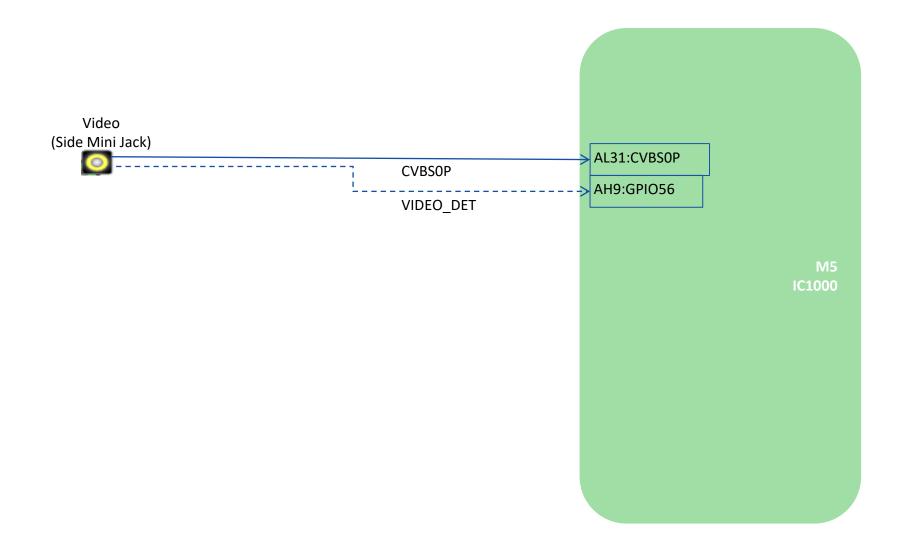
3.8 No Sound HDMI 1/2/3/4



4.0 No Picture

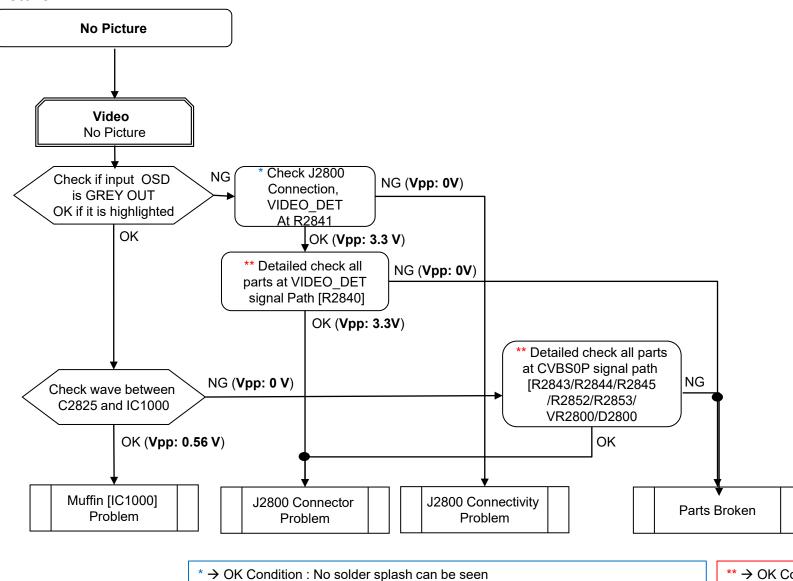


4.1 Analog Video Signal Path



50 SYS SET





 \rightarrow NG Condition : Solder splash can be seen

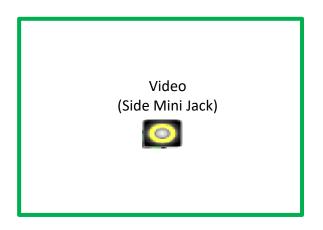
** → OK Condition : No part short-circuited
 → NG Condition : Part short-circuited

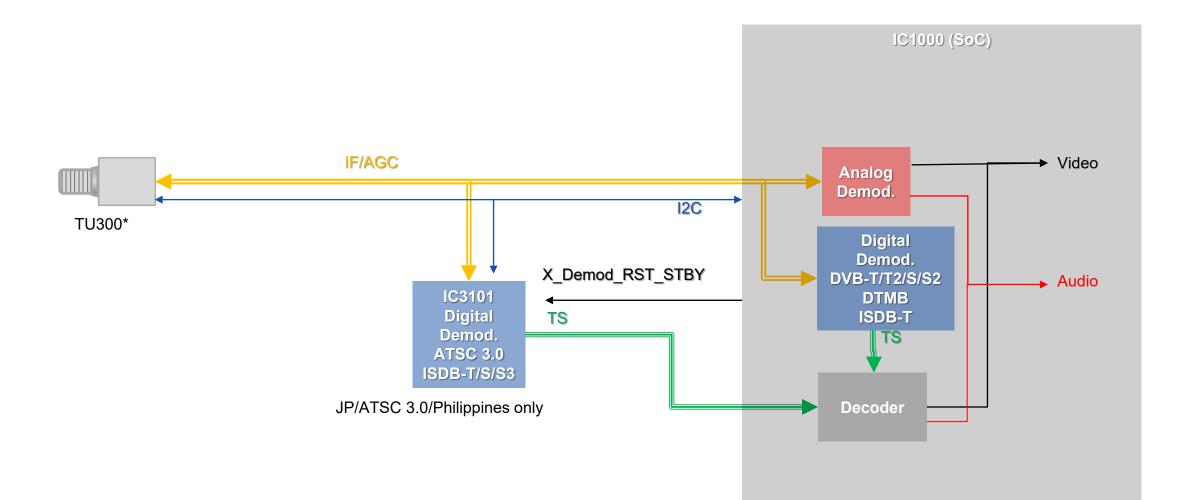
4.2 No Picture

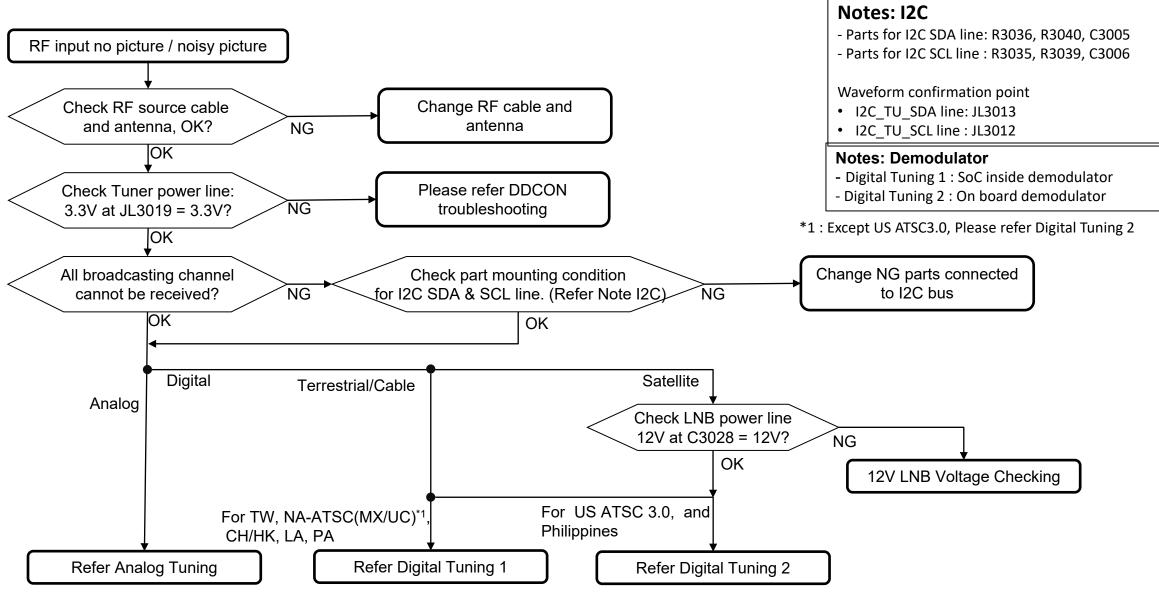
Condition	Actions to be taken
Muffin [IC1000] Problem	Refer to IC troubleshooting for further investigation
J2800 Connector Problem	Change Connector
J2800 Connectivity Problem	
Parts Broken	Change Part

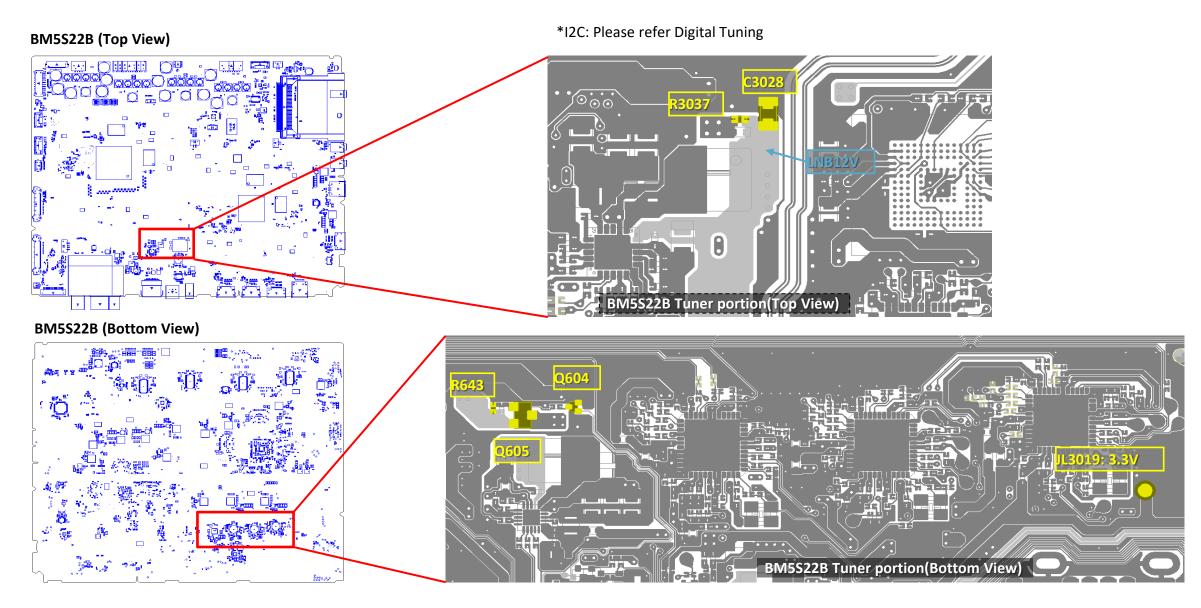
4.3 Input Skip Function

Input	Signal	Non-Detect (Typical)	Detect (Typical)
Video	VIDEO_DET IC1000 AH9-GPIO56	0V	3.3V

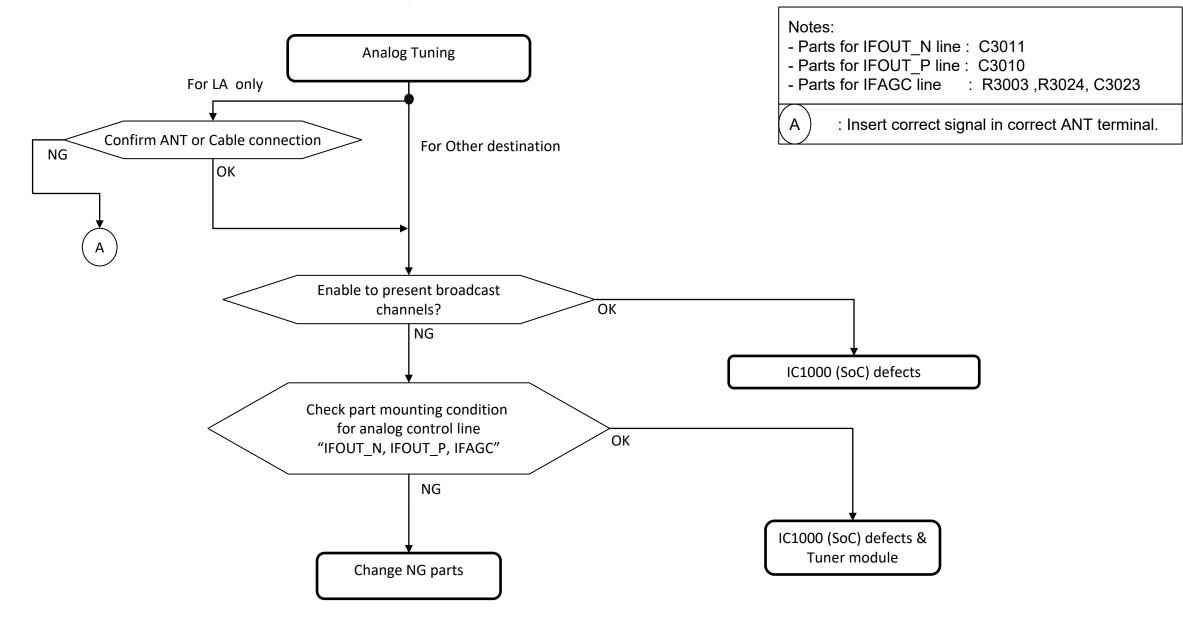


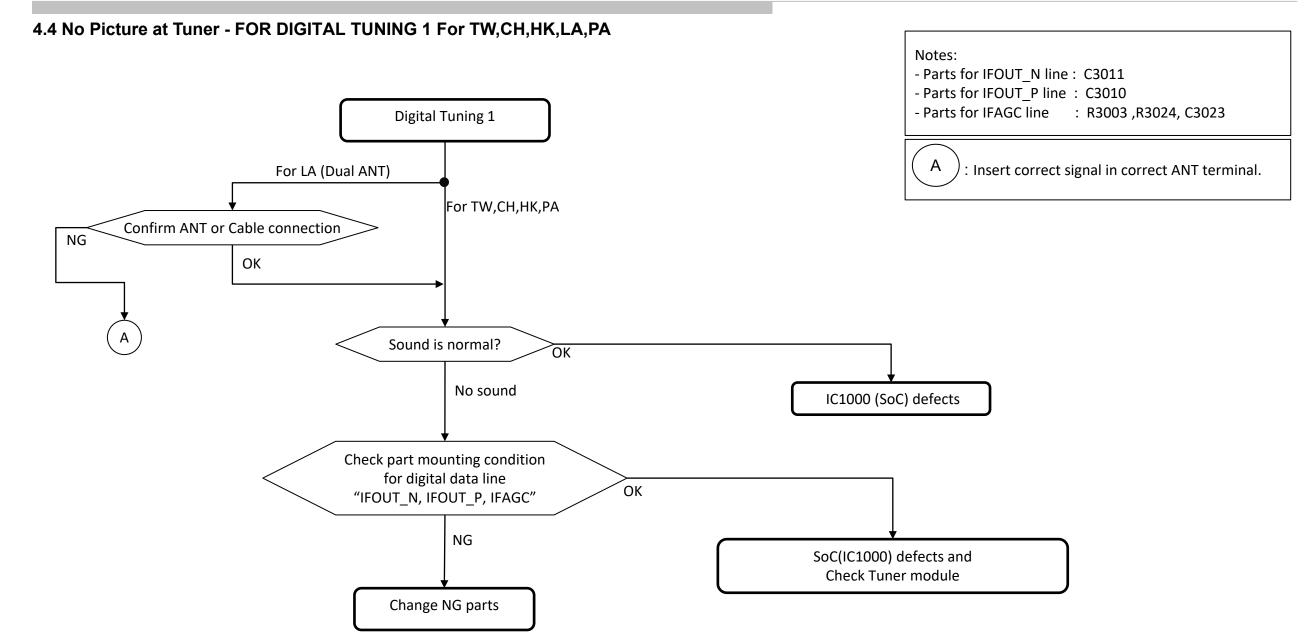


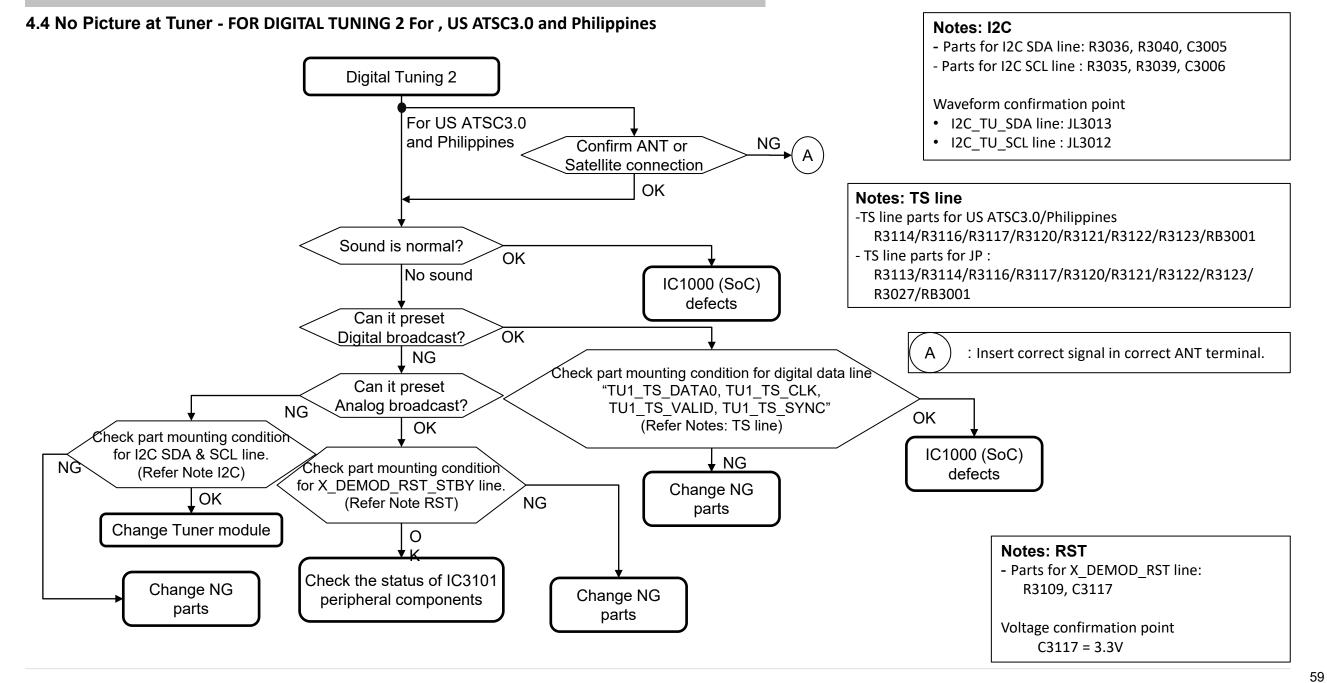




4.4 No Picture at Tuner - FOR ANALOG TUNING @ All destination

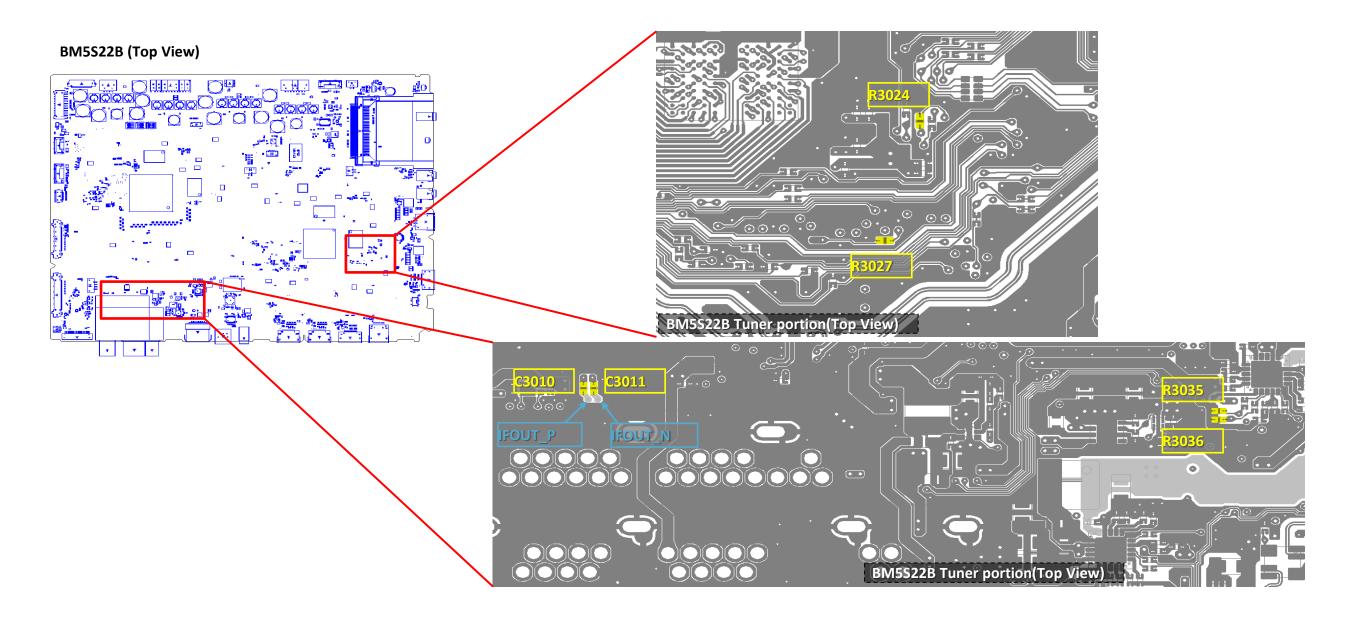




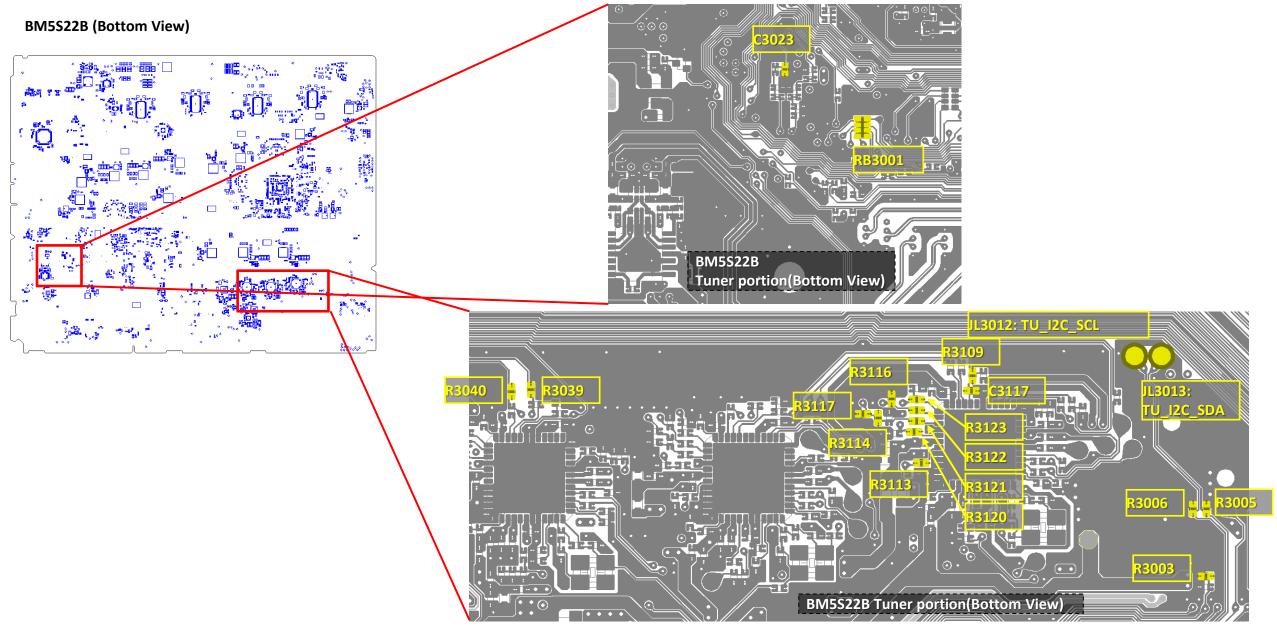


SYS SET

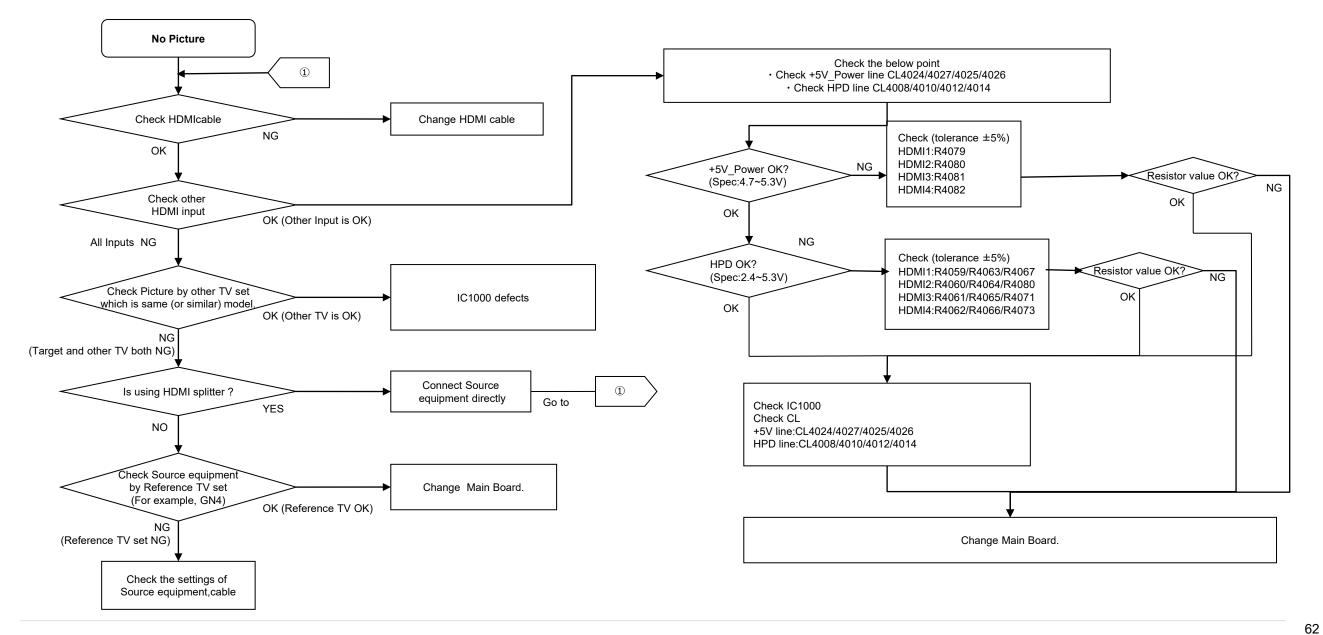
4.4 No Picture at Tuner



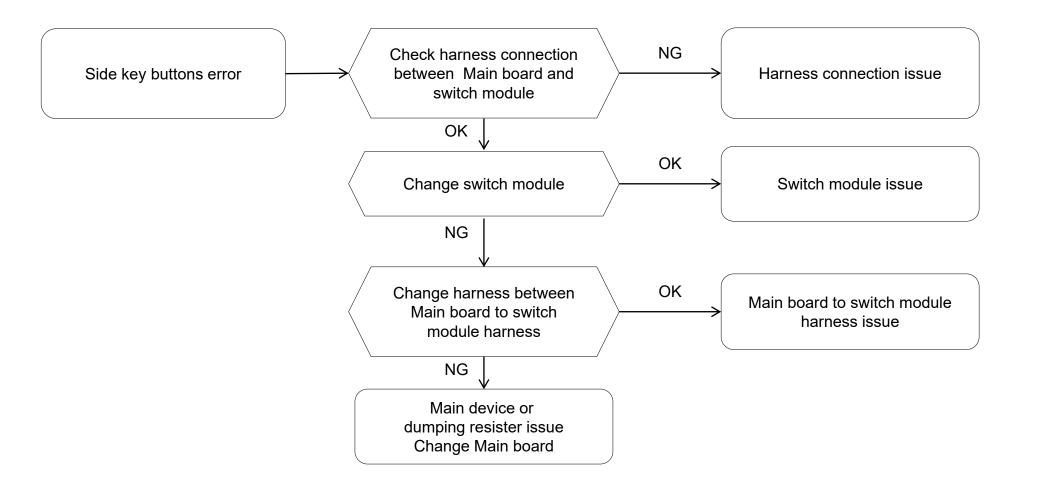
60



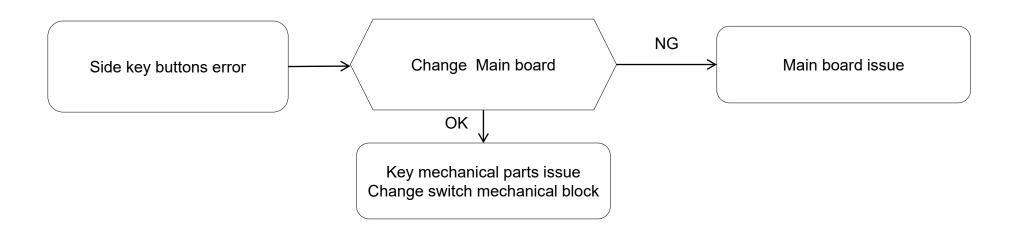
4.5 No Picture HDMI 1/2/3/4



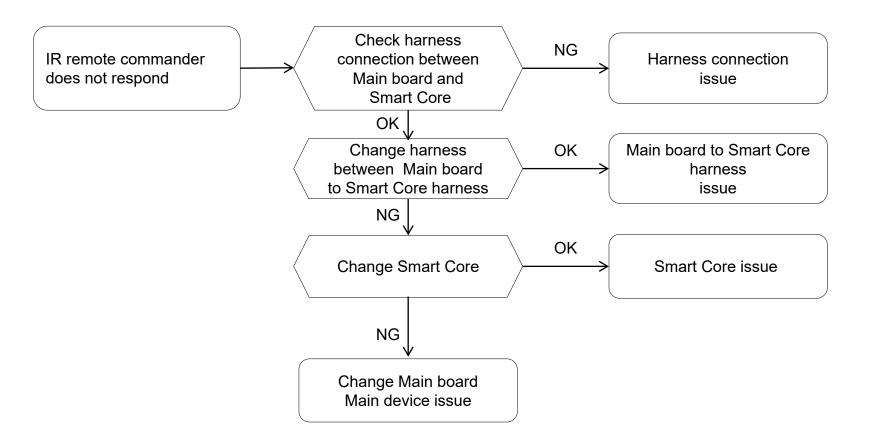
5.0 Key Switch Button Error – Switch model type



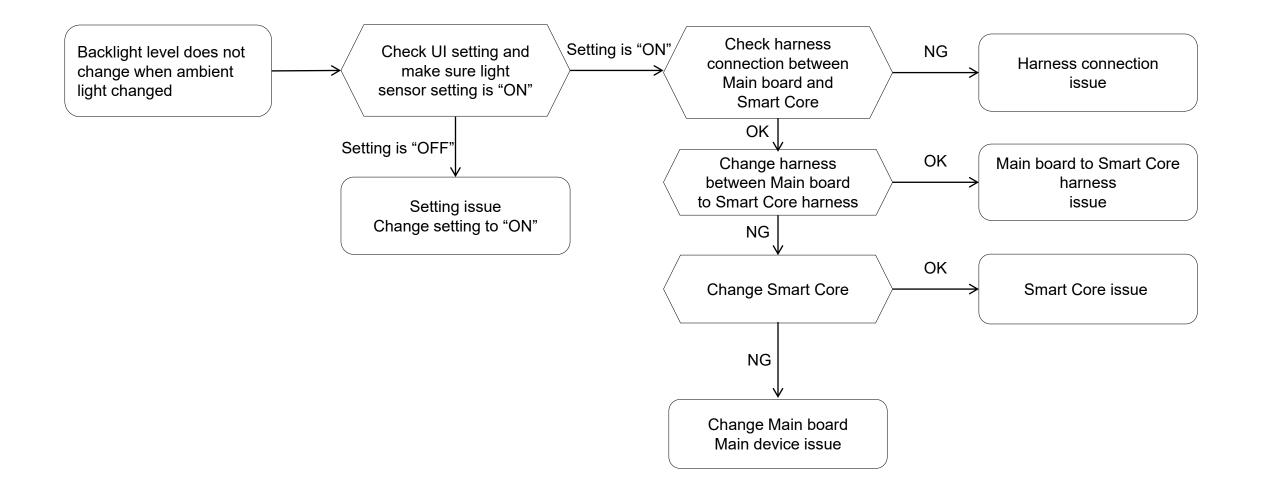
5.0 Key Switch Button Error – On board switch type



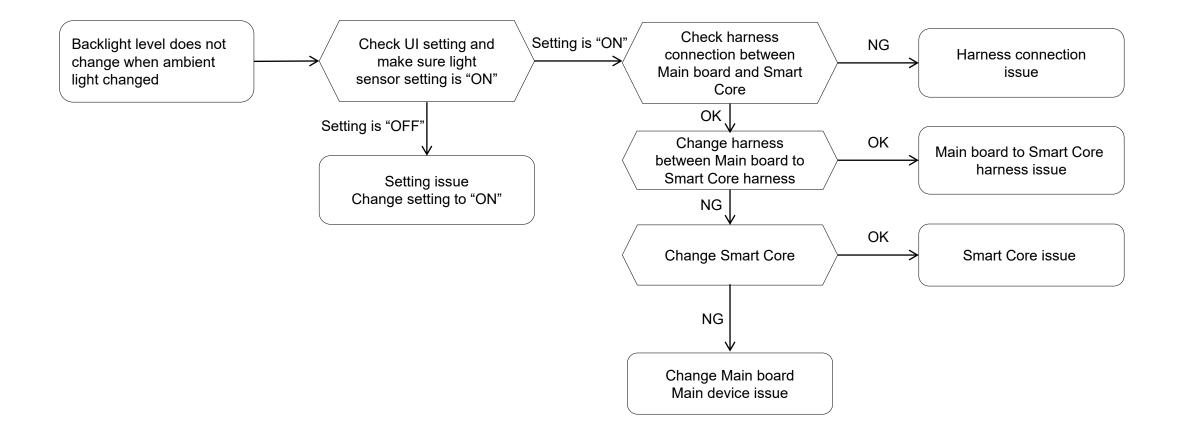
5.1 IR Remote Commander Error



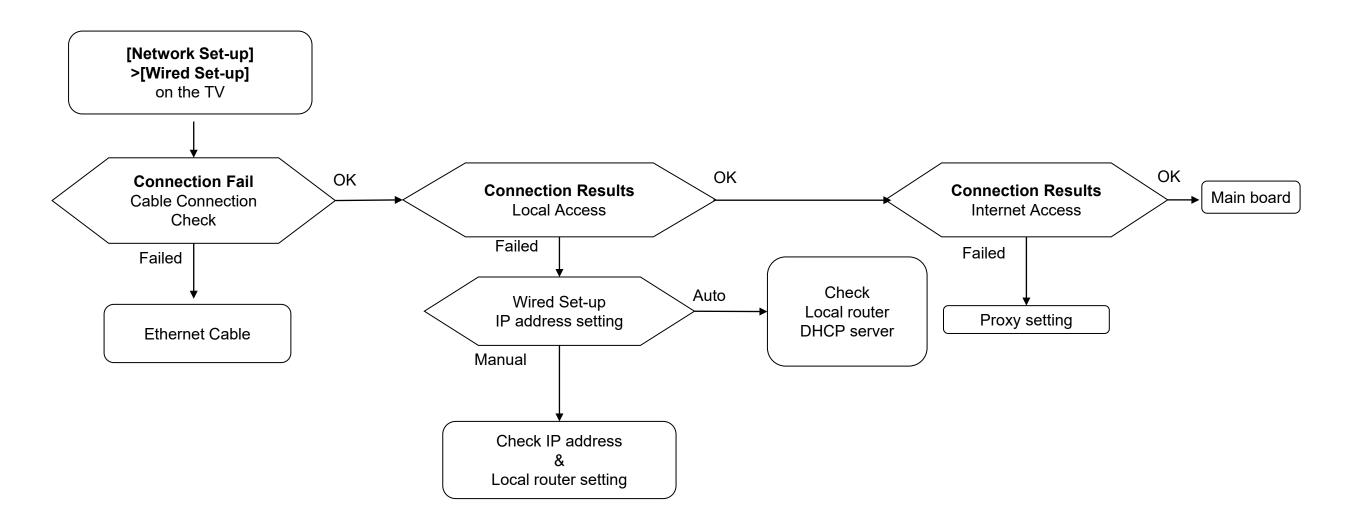
5.2 Light Sensor Error



5.3 CAS ID Unknown



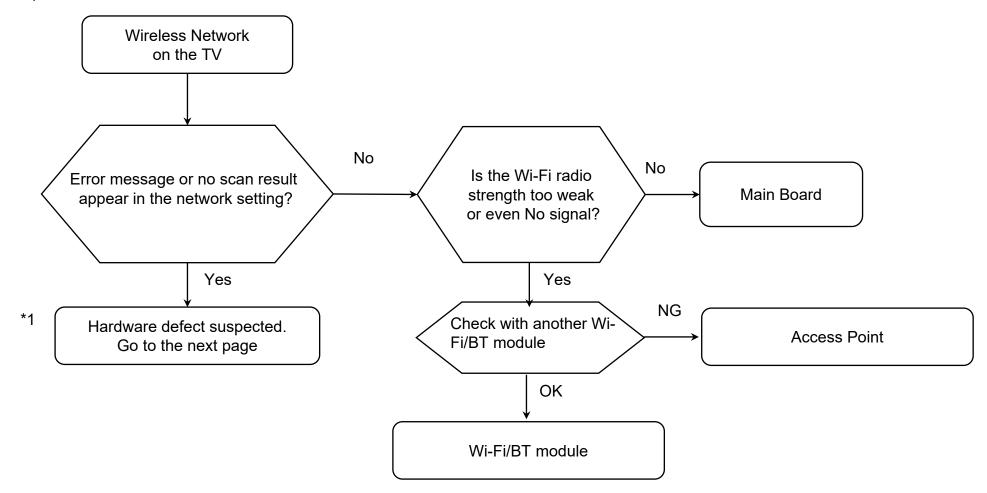
6.0 Network Malfunction: Ethernet (wired)



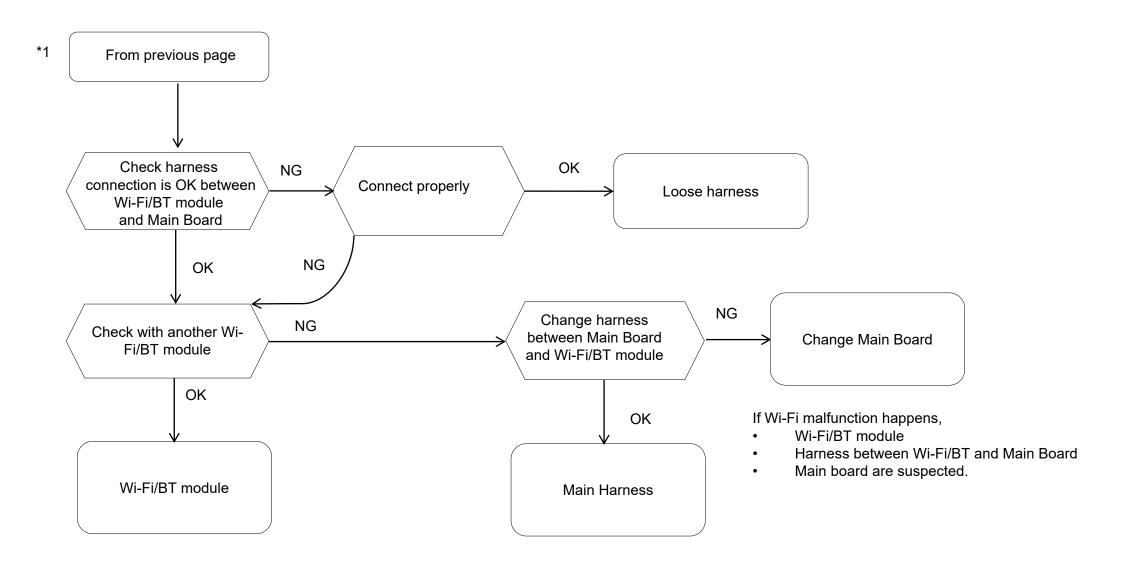
68

6.2 Wi-Fi Bluetooth - Wireless Network malfunction (1/2)

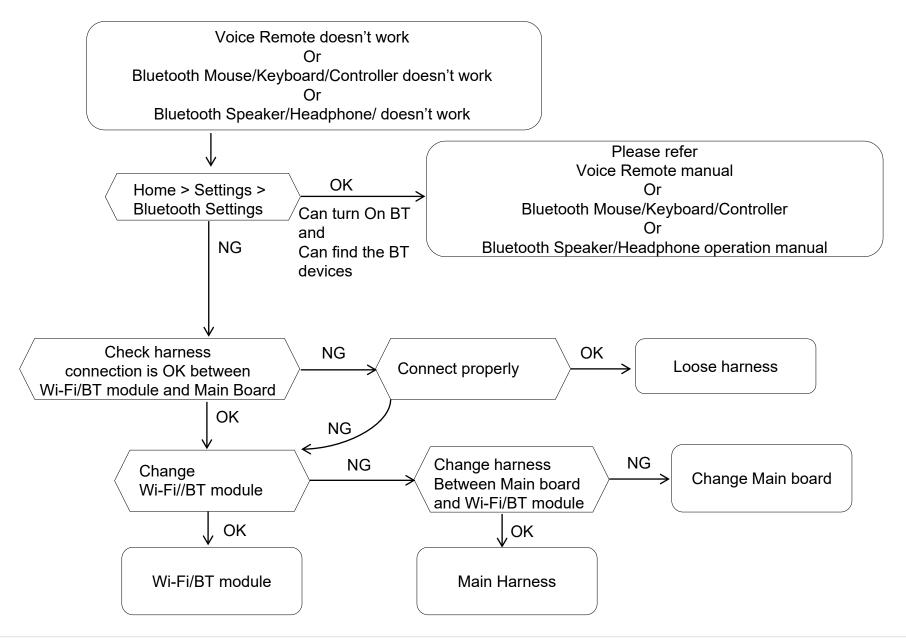
1) Internal Wireless Network malfunction



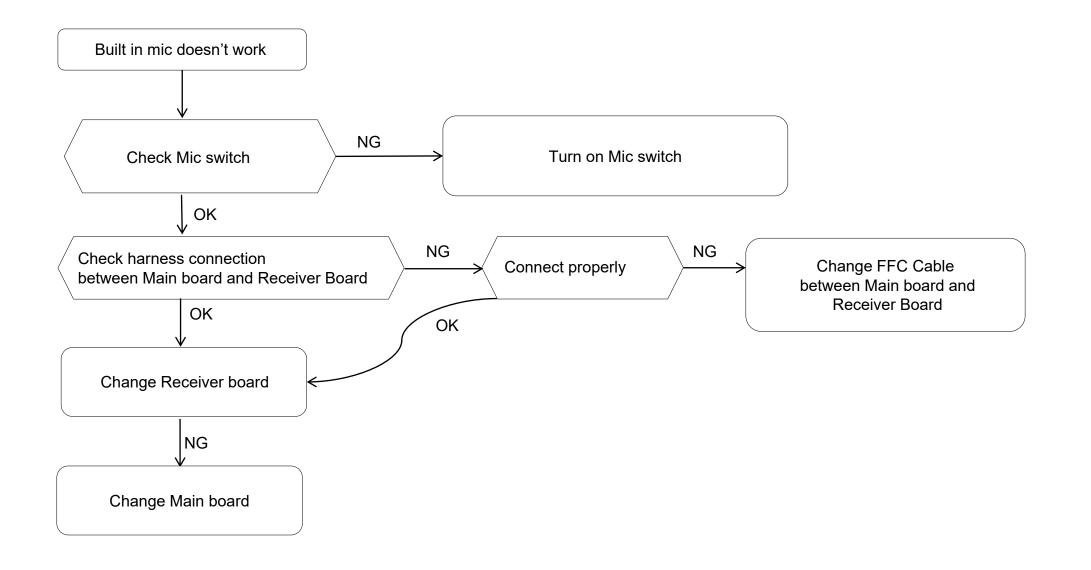
6.2 Wi-Fi Bluetooth - Wireless Network malfunction (2/2)



6.3 Wi-Fi Bluetooth - Bluetooth malfunction

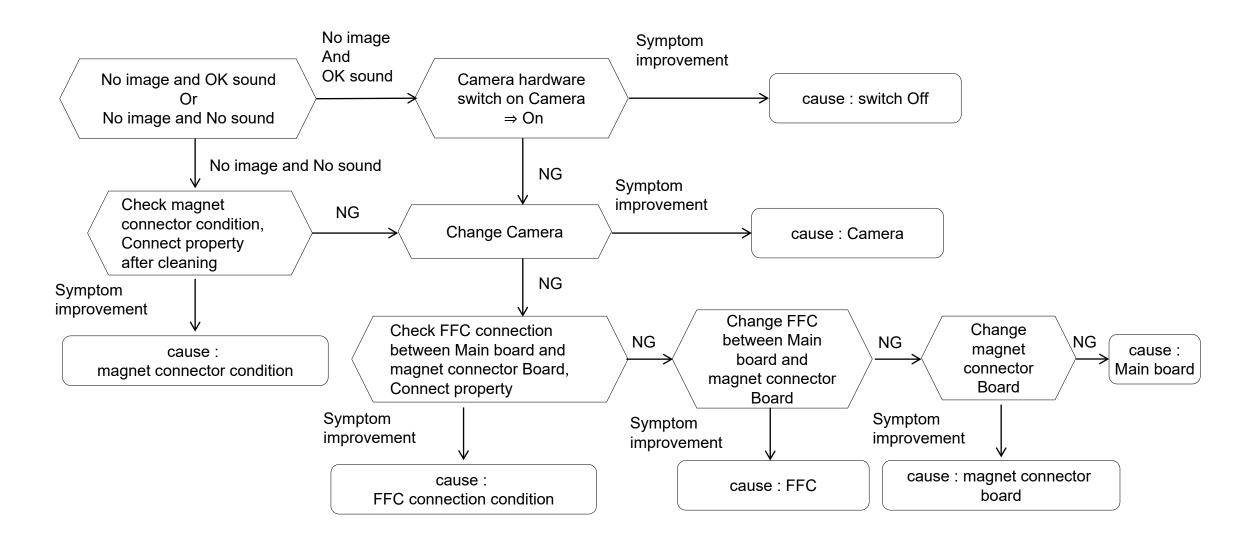


6.4 Built in Mic Malfunction



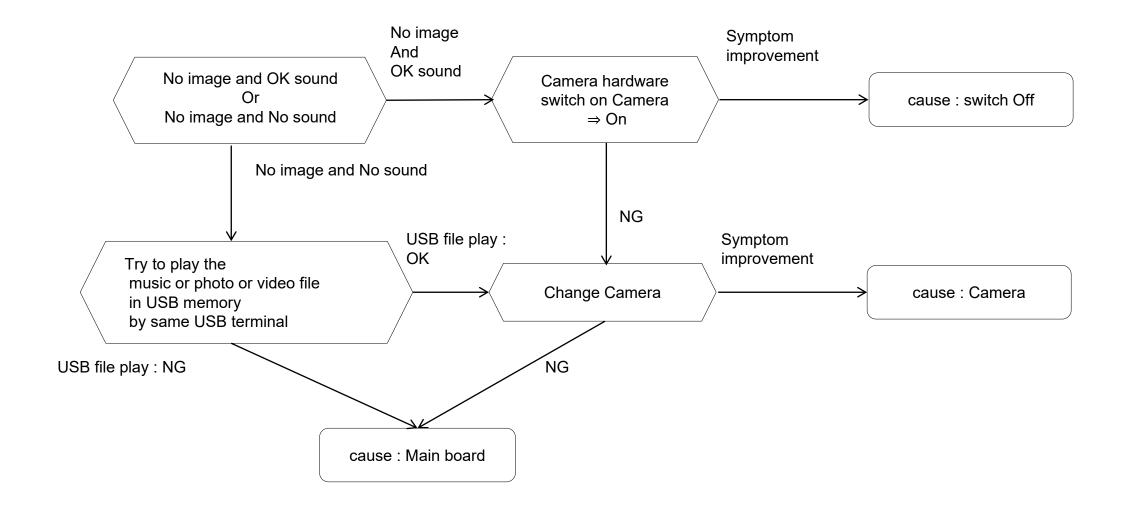
TROUBLESHOOTING

6.5 Camera Magnet connector type Camera (Bundle)

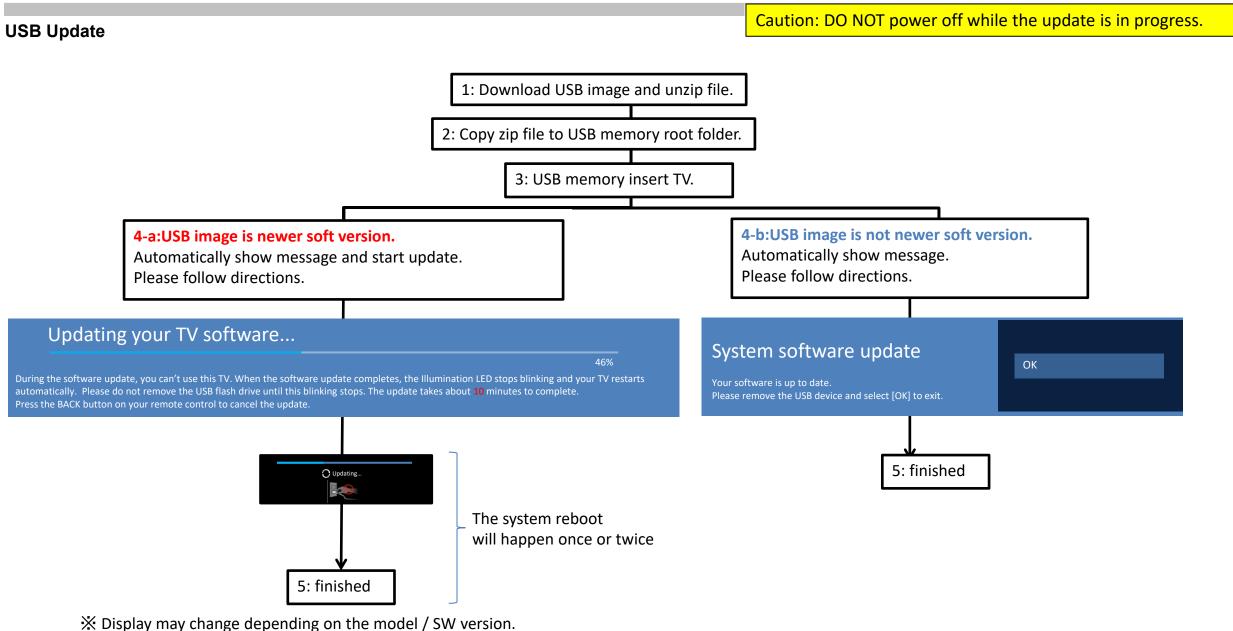


TROUBLESHOOTING

6.5 Camera USB connector type Camera (Accessory)



SOFTWARE UPDATE & RESET



SOFTWARE UPDATE & RESET

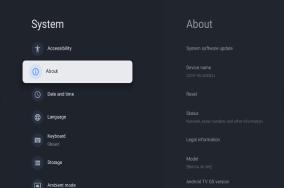
Factory Data Reset – with UI method

1. At Home Menu, go to Settings



2. Select System/Device Preferences





4. In About, Select 'Reset'



7. Select 'Yes'

Settings

Privacy

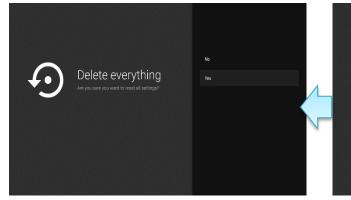
Apps

System Parental cor settings

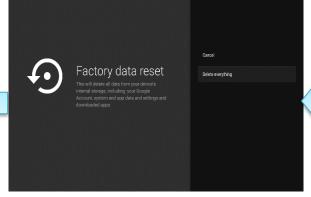
(?) Help & feedback

Remotes and accessories

Accounts & Sign-In
 Unavailable



6. Select 'Delete everything'



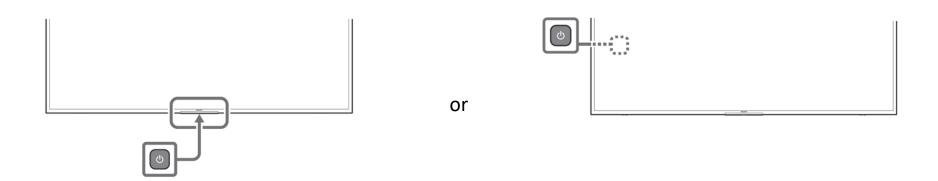
5. In Reset, Select 'Factory data reset'



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.

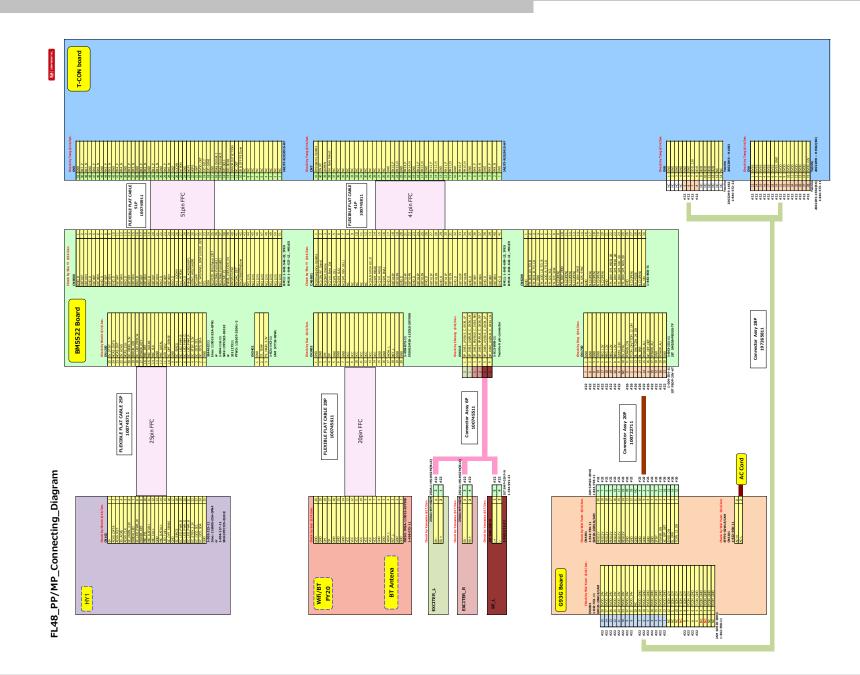
DIAGRAM

42" Connecting Diagram



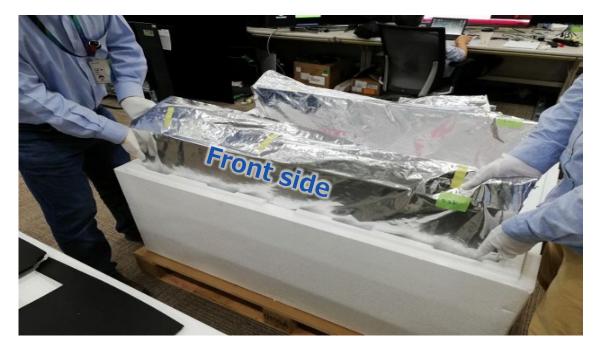
DIAGRAM

48" Connecting Diagram



Take out from P-mod packing

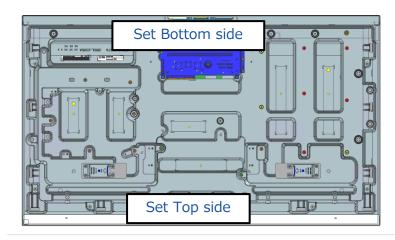
Holding positions are as follow



Grab the AL bag and take out.



Top side: Grab the AL bagBottom side: Support the bottom of the panel

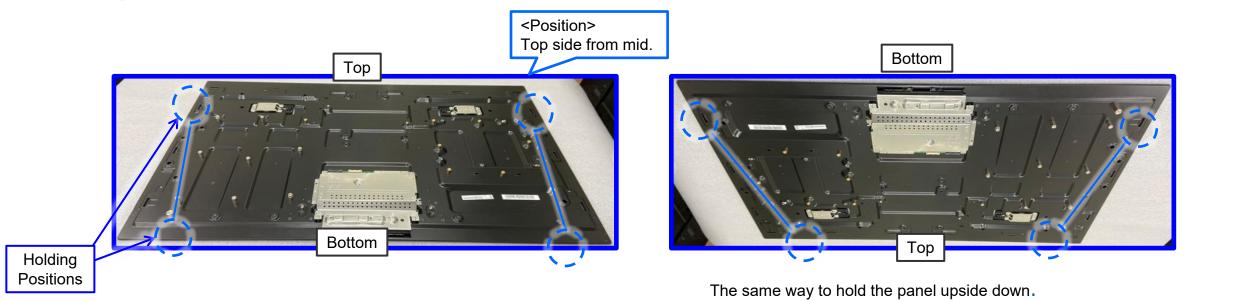


*P-Mod packing condition : Upside down

Moving panel vertical position (OK)



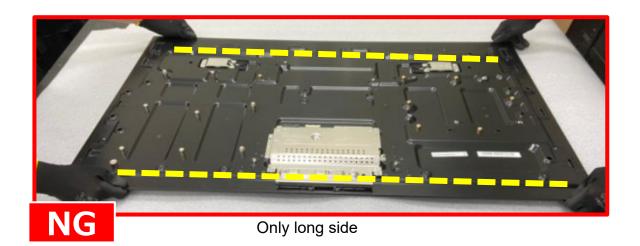
Holding Positions

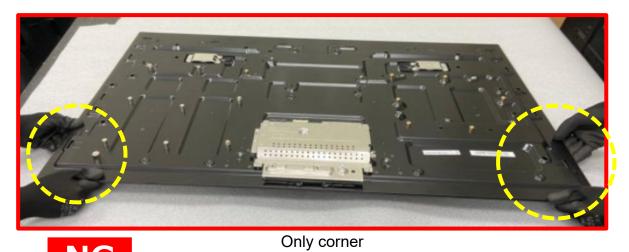


81

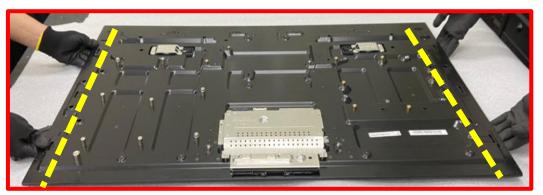
Moving panel vertical position (NG)

DO NOT allow to carry panel on face down condition.





NG

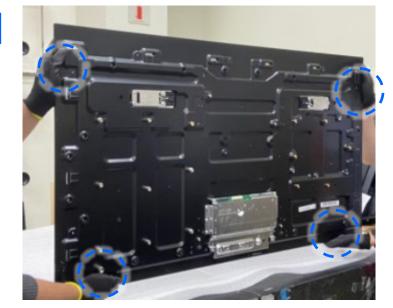




Only short side

Holding on Vertical Position & Moving 1/2





The same way to hold the panel upside down.





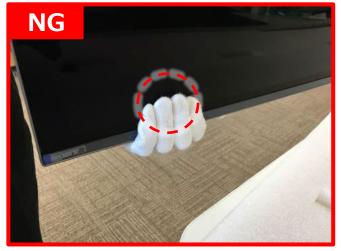
DO NOT catch frame by finger.



DO NOT push display by finger.



DO NOT grab 4 corner



DO NOT push display by finger.

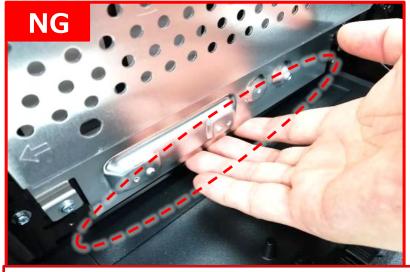
Holding on Vertical Position & Moving 2/2



DO NOT grab all STUD.



DO NOT grab EXCITER.



DO NOT grab T-CON COVER SHIELD.

2023/12/21 05:27:45 (GMT+09:00)

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

English © 2023.12

SERVICE MANUAL (DISASSEMBLY)

ORIGINAL MANUAL ISSUE DATE: 2023.12

DISCLAIMER: USE AT OWN RISK. SONY AND ITS AFFILIATES ARE NOT LIABLE FOR ANY DAMAGE OR INJURY CAUSED TO ANY DIGITAL ELECTRONIC EQUIPMENT, PERSON, OR PROPERTY, WHICH OCCURS DUE TO USE OF THE TOOLS, PARTS, DOCUMENTATION, OR OTHER MATERIALS HEREIN PROVIDED, WHETHER FOR REPAIR, DIAGNOSIS, MAINTENANCE, MODIFICATION, OR OTHERWISE, INCLUDING BUT NOT LIMITED TO: ANY INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES; ANY LOSS OF DATA, PRIVACY OR PROFITS; OR ANY INABILITY TO USE, OR REDUCED FUNCTIONALITY OF, THE DIGITAL ELECTRONIC EQUIPMENT. PLEASE READ ALL INSTRUCTIONS IN THIS MANUAL BEFORE PROCEEDING. PLEASE FOLLOW ALL STEPS IN THE ORDER IN WHICH THEY ARE DESCRIBED. IF YOU DO NOT HAVE ALL TOOLS AND PARTS AVAILABLE TO YOU, OR ARE NOT COMFORTABLE PERFORMING THE REPAIRS DESCRIBED HEREIN, DO NOT PROCEED. FAILURE TO FOLLOW THESE INSTRUCTIONS, OR USE THE PROPER TOOLS AND PARTS, MAY DAMAGE YOUR PRODUCT, LEAD TO PERSONAL INJURY OR CAUSE PROPERTY DAMAGE.

9-888-907-U1

OLED TV

SONY_®

Sony EMCS (Malaysia) Sdn. Bhd. HES-M © 2023.12 2023/12/21 05:25:19 (GMT+09:00)

MODEL LISTS

Model	Remote	Destination
XR-42A90K	RMF-TX900U	UCM
XR-48A90K	RMF-TX900U	UCM





TABLE OF CONTENTS

Title		Page	Self Diagnosis
TOOLS & E	QUIPMENTS	4	
FFC PREC	AUTIONS	5	
SECTION	1 : XR-42A90K		
1-1	DISASSEMBLY AND REMOVAL CAUTION	7	
1-2	BOARD LOCATION	12	
1-3	WIRE DRESSING	13	
1-4	EXPLODED VIEW AND PART LIST	21	
SECTION	2:XR-48A90K		
2-1	DISASSEMBLY AND REMOVAL CAUTION	26	
2-2	BOARD LOCATION	31	
2-3	WIRE DRESSING	32	
2-4	EXPLODED VIEW AND PART LIST	37	
SMART CO	RE		
DISASS	EMBLY AND REMOVAL CAUTION	42	Please refer Service Manual (Troubleshooting) for below information:
EXPLOD	ED VIEW AND PART LIST	43	General Safety Notes
			 Self Diagnosis Function
APPENDIX			 Triage Chart
SHARP	EDGE	44	 Troubleshooting, Troubleshooting reference
FFC REPLACEMENT CAUTIONS		45	 Software Update & Reset
			Diagrams: Connector Diagram
			Handling Guide
			Note: Pictures provided in this manual may have difference from an 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 wallmounted, 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.

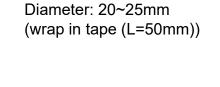












Thickness: approx. 1.5mm

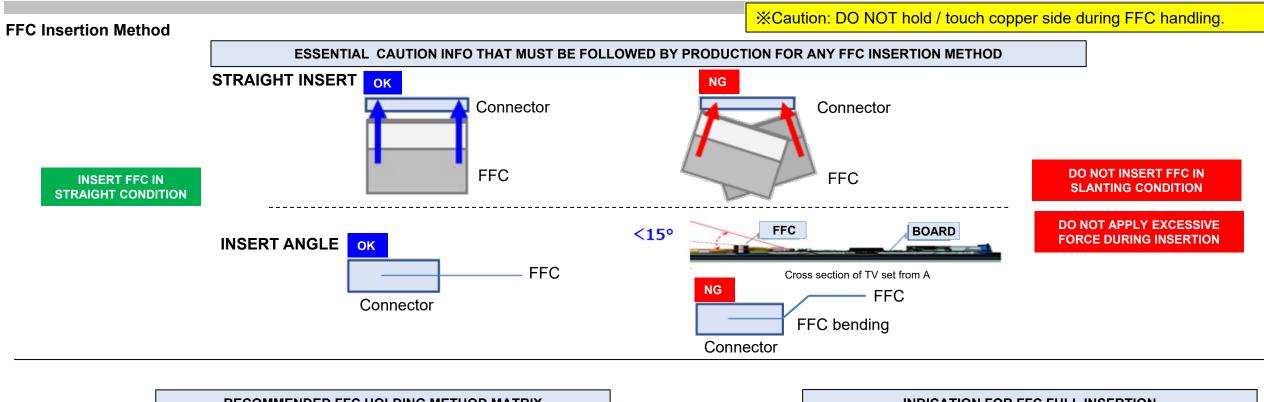


Plastic or Metal Ruler (In case of Metal ruler, wrap in tape (L=50mm) for prevent scratches)



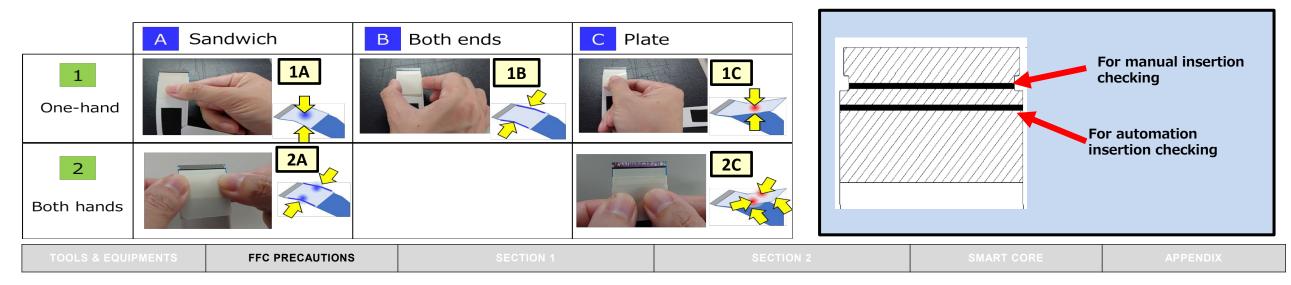
SYS SET

FFC PRECAUTIONS



RECOMMENDED FFC HOLDING METHOD MATRIX

INDICATION FOR FFC FULL INSERTION

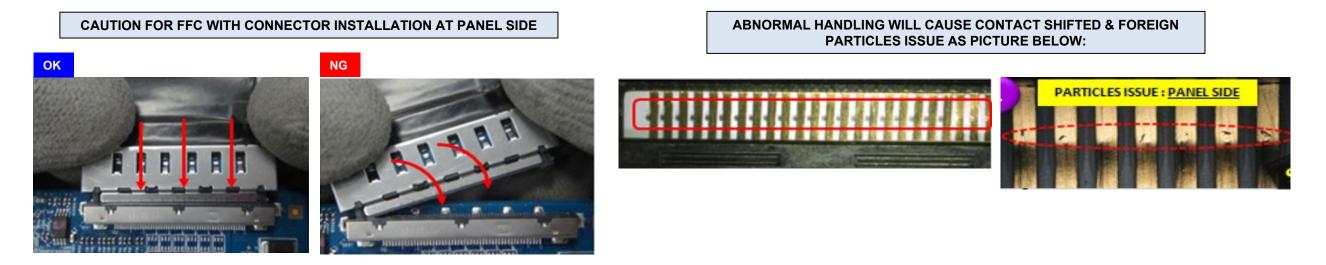


SYS SET

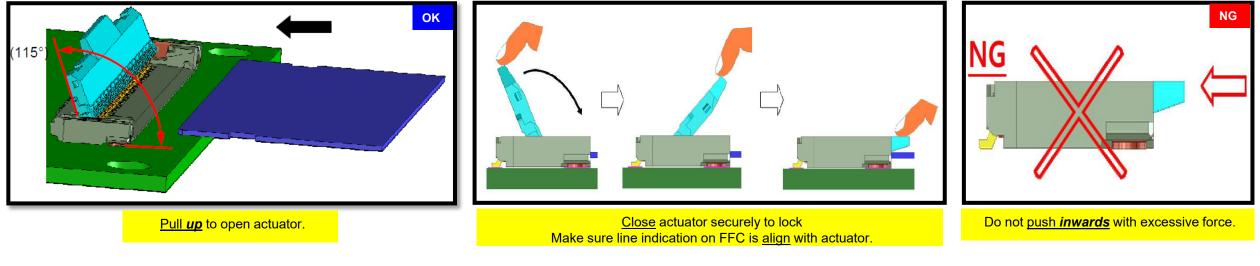
5

FFC PRECAUTIONS

Caution for FFC with Housing Connector



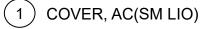
ZIFF FFC Insertion Caution



TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	6
						SYS SET

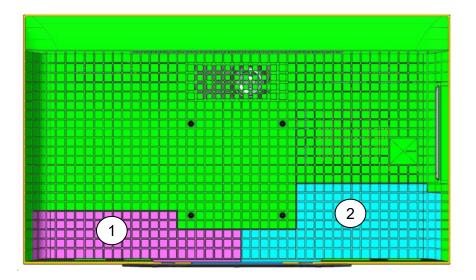
REAR COVER

1. Remove AC Cover and Under Cover



2 COVER, UNDER (SM LIO)

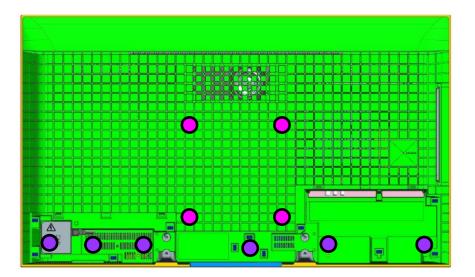
1-1. DISASSEMBLY AND REMOVAL CAUTION



2. Remove screws from Rear Cover

0	SCREW M3X3.0 STEP	6 pcs
0	SCREW, ORNAMENTAL M6x12	4 pcs

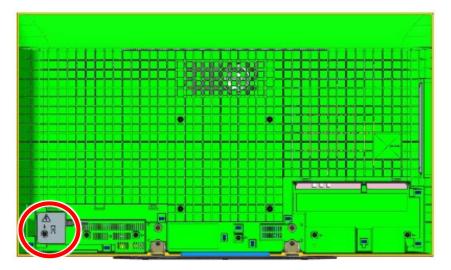
Total screws : 10 pcs

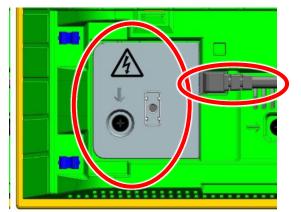


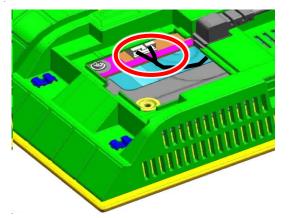
						_
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	7
			A			SYS SET

REAR COVER

3. Remove AC Cover (AC COVER (AT) and Power Supply Cord Then disconnect from Power Board .

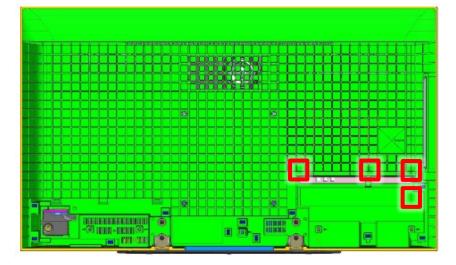






4. Hold near Smart Core and pull up Rear Cover. Then release all hooks at under recess area.

Total hooks : 4 pcs



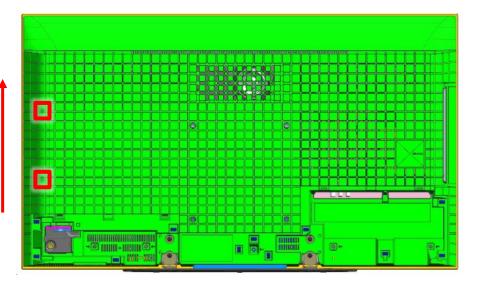
OLS & EQUIPMENTS FFC PRECAUTIONS SECTION 1 SECTION 2 SMART CORE APPENDIX

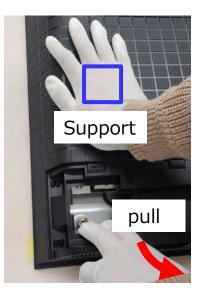
1-1. DISASSEMBLY AND REMOVAL CAUTION

8

REAR COVER

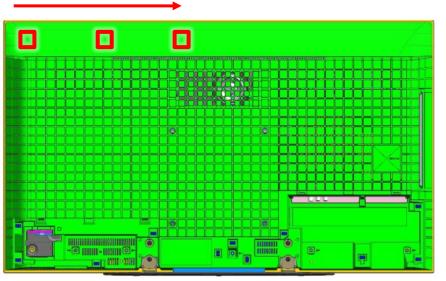
- 5. Remove hooks at the left side
 - 1. Use gloves is a must to remove the hooks
 - 2. Support at right figure area and hold the hole at the AC Cover
 - 3. After that pull the Rear Cover downwards
 - 4. Then , release the 2 pcs of hooks

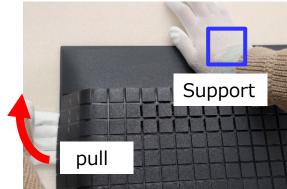




6. Remove hooks at the top side

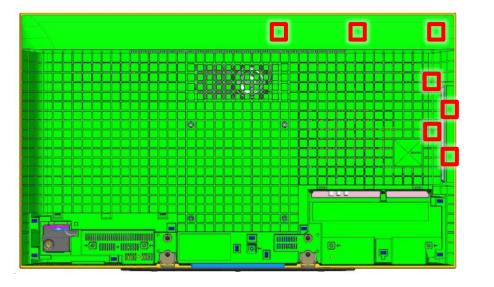
- 1. Use gloves is a must to remove the hooks
- 2. Support at right figure area and hold the gap between the Rear Cover panel
- 3. After that pull the Rear Cover
- 4. Then , release the corner hooks
- 5. Release other hooks with the same method





REAR COVER

- 7. Remove hooks at the top / right side and terminal area
 - 1. Push Rear Cover to the right side
 - 2. Then , release 7 pcs of hooks at top / right side and terminal area as well
 - 3. When releasing hooks , please support Rear Cover to make sure it doesn't fall.





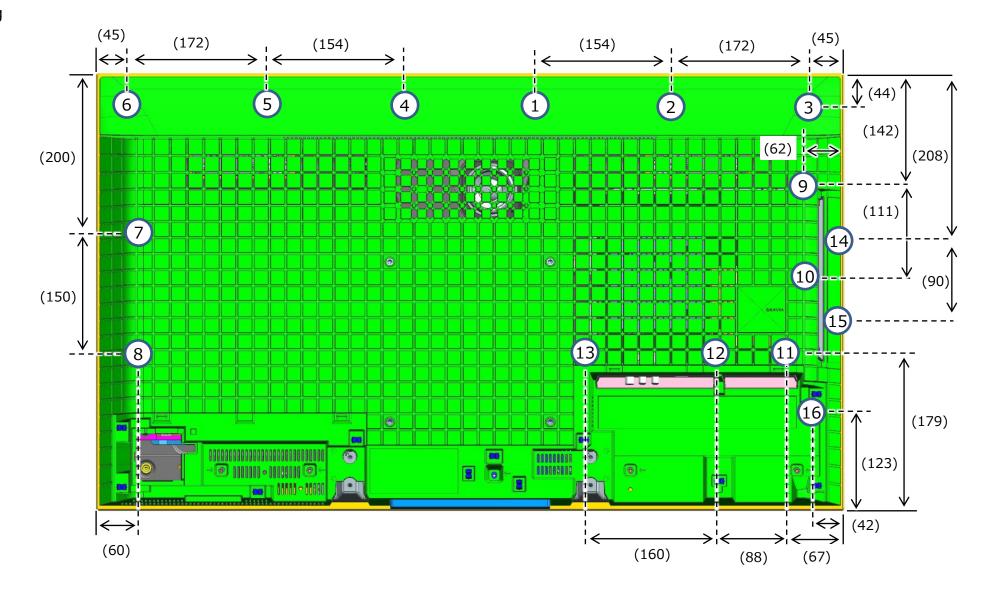
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	10

1-1. DISASSEMBLY AND REMOVAL CAUTION

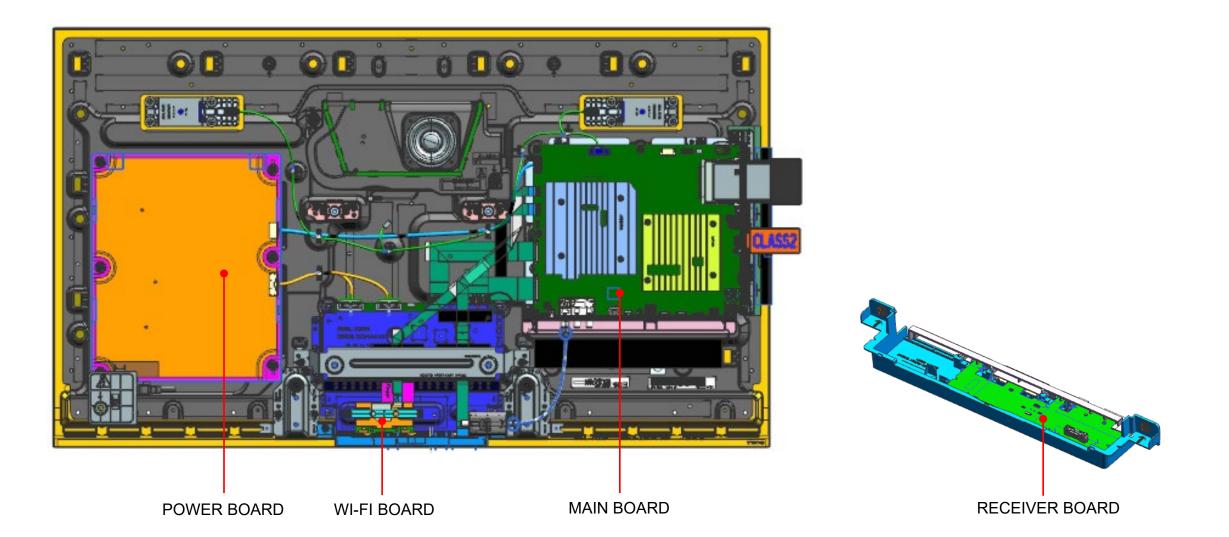
1-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

8. Hooks Positioning

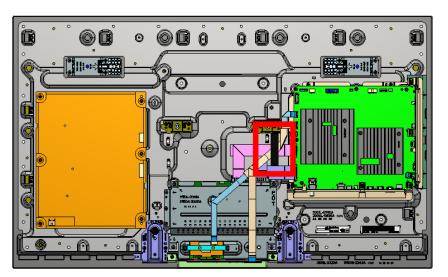


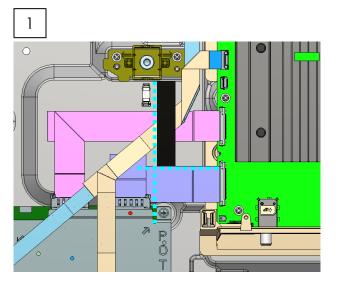
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	A
--------------------	-----------------	-----------	-----------	------------	---

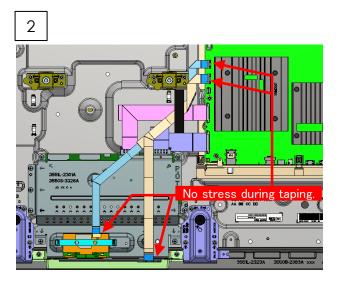


TOOLS & EQUIPMENTS FFC PRECAUTIONS SECTION 1 SECTION 2 SMART CORE APPENDIX 12	 					
	C PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	12

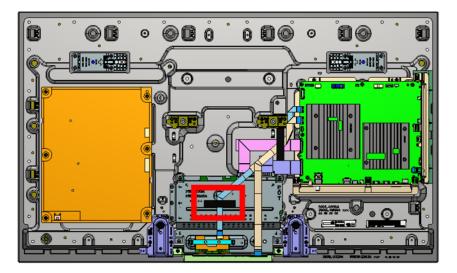
<u>TAPE</u>

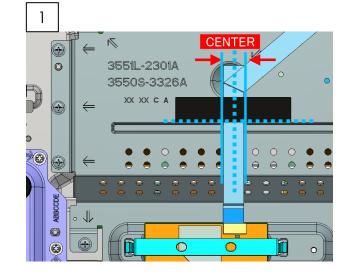


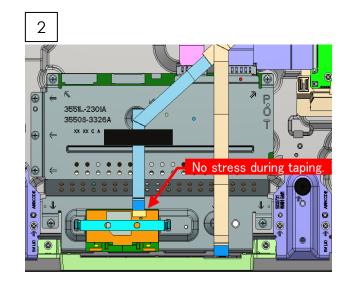




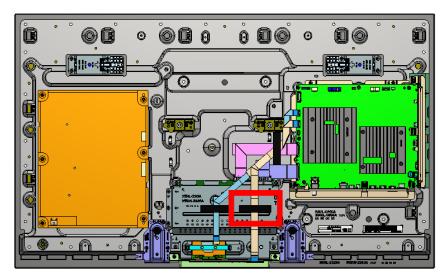
<u>TAPE</u>

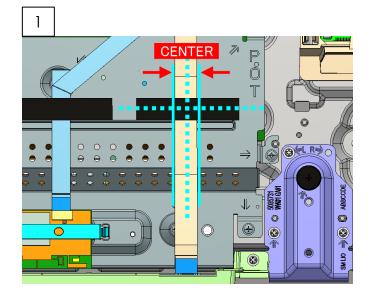


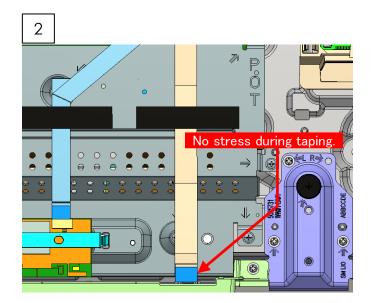




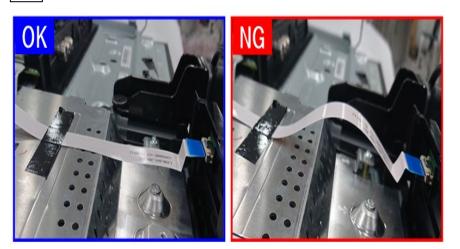
<u>TAPE</u>







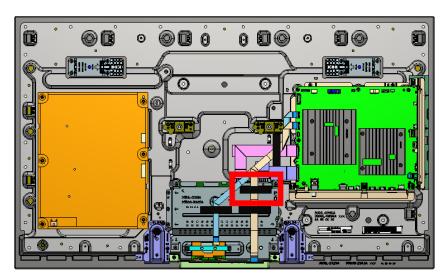
3

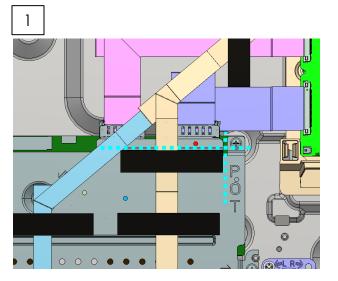


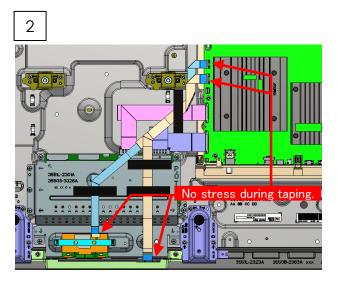
TOOLS & EQUIPMENTS

SYS SET

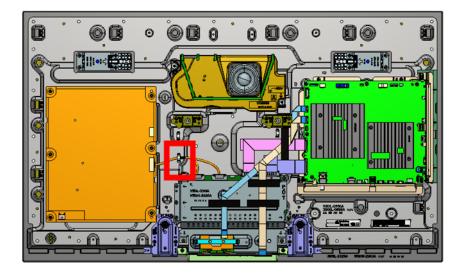
<u>TAPE</u>

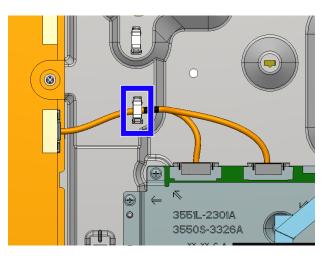






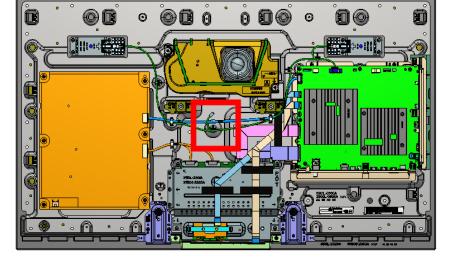
WIRE DRESSING

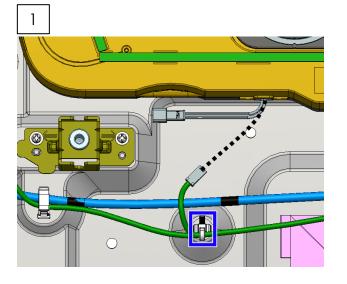


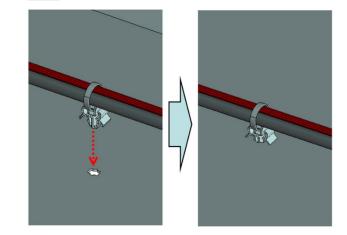


SYS SET



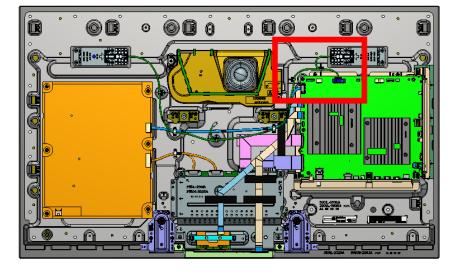


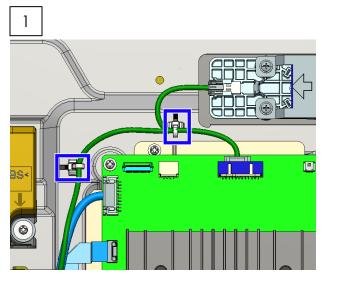


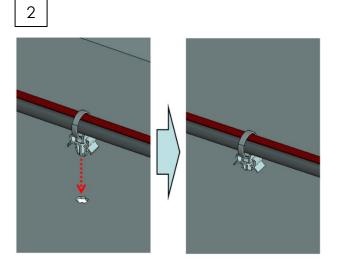


2









WIRE DRESSING

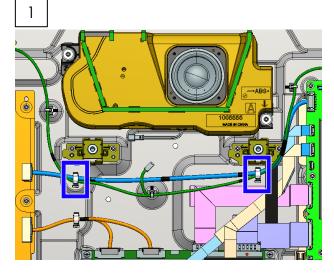
SECTION 1: XR-42A90K

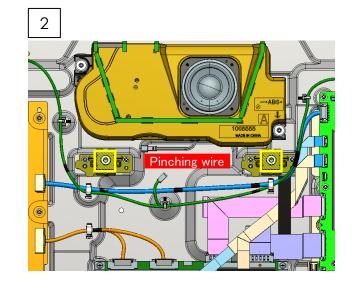
1-3. WIRE DRESSING



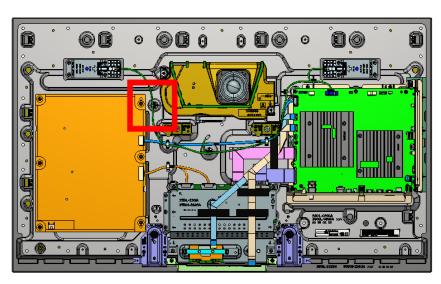
17

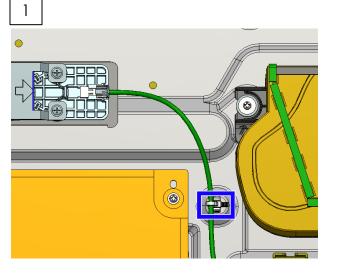
SYS SET

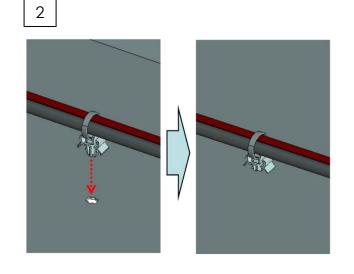




WIRE DRESSING







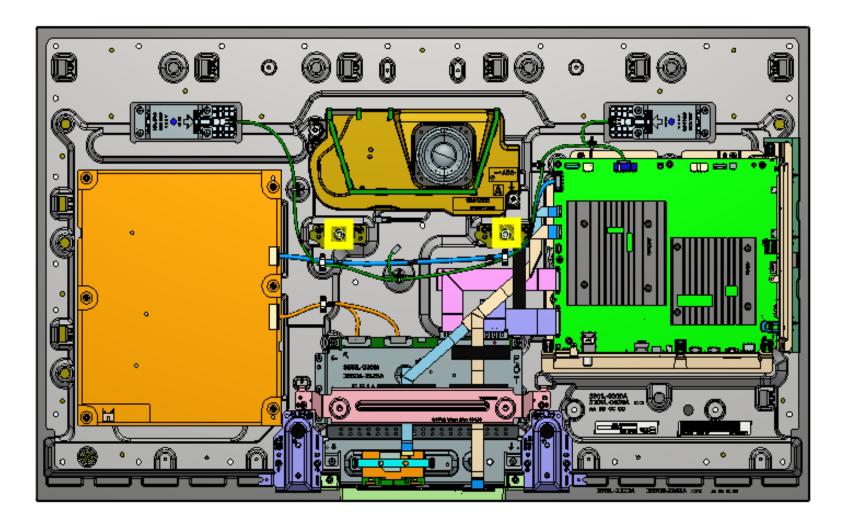
WIRE DRESSING

SECTION 1: XR-42A90K

1-3. WIRE DRESSING

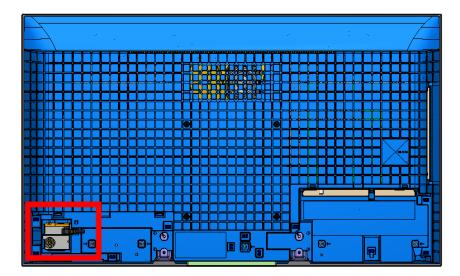
INFORMATION

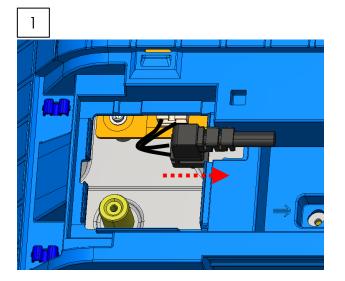
Keep harness away from inhibit area.

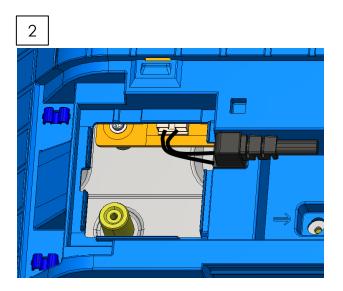


SYS SET

WIRE DRESSING





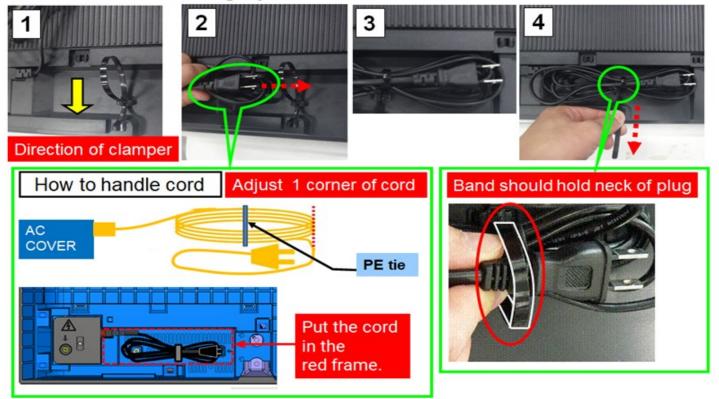


						10
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	19

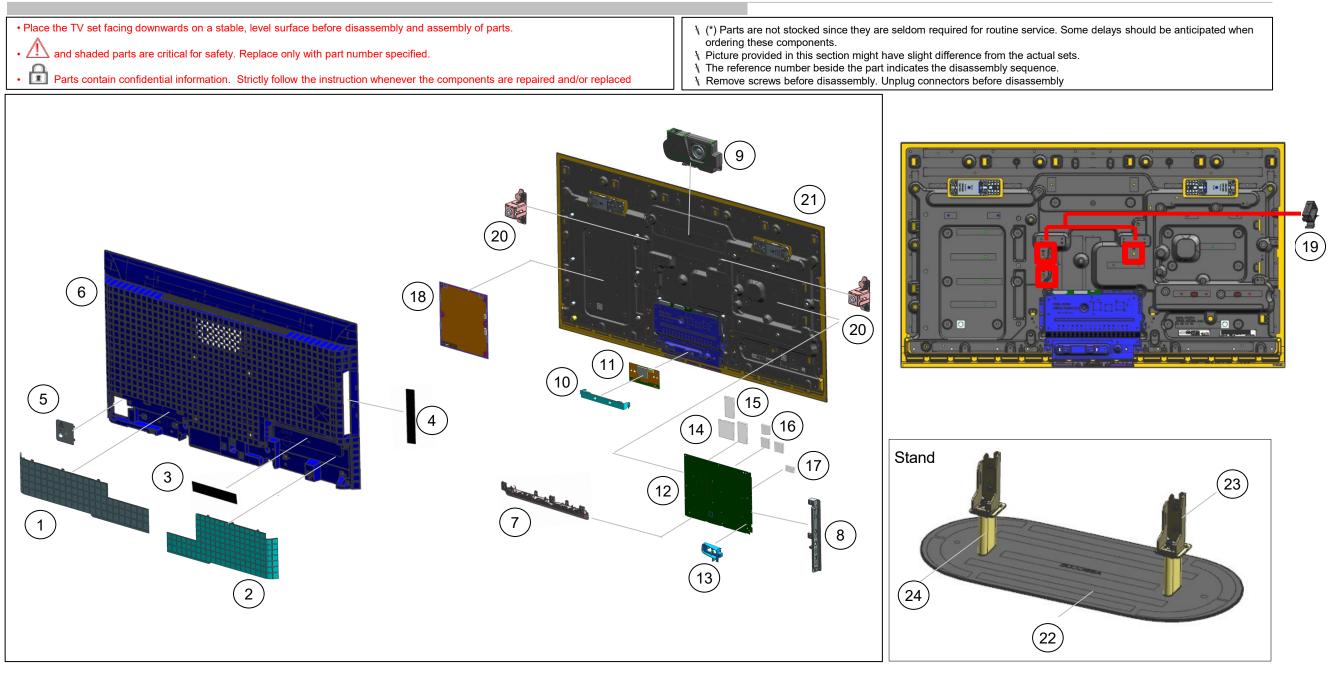
1-3. WIRE DRESSING

WIRE DRESSING

- 1. Make sure of the direction of clamper.
- 2. Let bundled cord into clamper.
- 3. AC plug in front side.
- 4. Pull band to the left tightly.



1-4. EXPLODED VIEW AND PART LIST



SYS SET

1-4. EXPLODED VIEW AND PART LIST

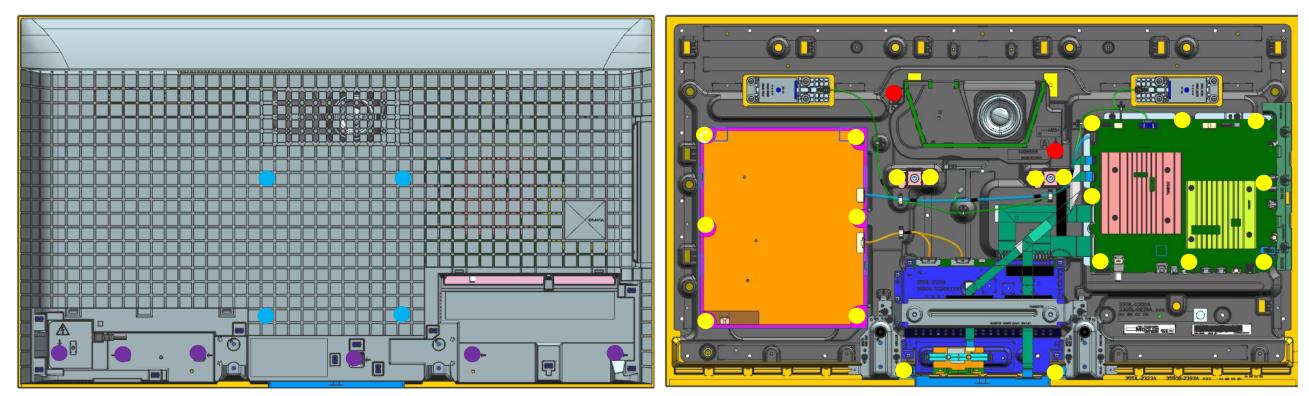
SET PART LIST

REF. NO	PART NO.	DESCRIPTION	UCM
1	5-035-735-11	COVER, AC(SM LIO)	•
2	5-035-734-11	COVER, UNDER (SM LIO)	•
3	5-036-141-01	LABEL, UNDER TERMINAL (BM5S22)	•
4	5-036-145-31	LABEL, SIDE TERMINAL (BM5S22)	•
<u>/</u> 5	4-745-608-01	AC COVER (AT)	•
<u>/</u> 6	5-035-728-01	REAR COVER (SM LIO) A	•
7	4-724-146-14	BRACKET, UNDER (BM2A)	•
8	5-036-017-22	BRACKET SIDE(SGT)	•
9	1-005-555-32	SP-BOX ASSY,FY20 D40-WF-DRN	•
10	5-009-258-21	BRACKET, WIFI(BNN)	•
11	1-005-419-33	WLAN/BT MODULE(11AC)FXC	•
12	A-5044-985-A	COMPL SVC BM5S22B_FL_UCMX	•
13	5-023-281-02	KEY,TOP(SGT)	•
14	5-011-960-01	SHEET, THERMAL(LMN TCON)	•
15	5-023-557-01	SHEET THERMAL(BM5S21 DDR)	•
16	4-699-975-02	SHEET,THERMAL(5567H)	•
17	5-020-359-01	SHEET, THERMAL CSOT (APL)	•
18	1-014-412-11	G210 - STATIC CONVERTER(TV)	•
19	2-650-770-21	SLIDE, CLAMP	•
20	*5-023-713-01	BRACKET, VESA(3L LMN)	•
1 21	1-014-435-11	OLED PANEL (L42EQD1)	•
22	5-035-696-01	STAND BASE (ML LIO) A	•
23	5-035-705-01	NECK STD (ML LIO) A	•
24	5-035-702-01	STAND ARM (ML LIO) A	•

						-
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	22

SYS SET

SCREW



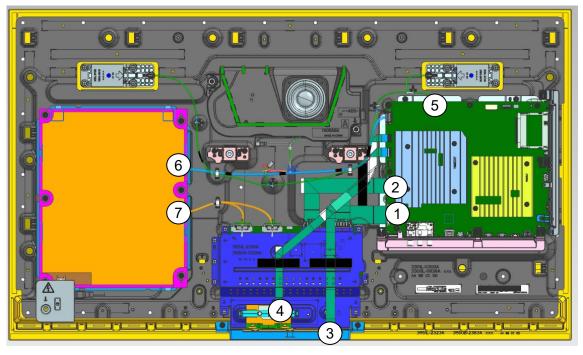
REMARKS	P/N	DESCRIPTION	QTY	TORQUE (N.m)	
	4-579-926-01	SCREW M3X3.0 STEP	6	0.4 ± 0.05	
	4-268-126-02	SCREW, ORNAMENTAL M6X12	4	1.2±0.1	
	4-256-393-12	SCREW, +PSW M3X6 W12	2	0.4 ± 0.05	
•	4-472-518-11	SCREW, +PSW M3X6	20	0.4 ± 0.05	

TOOLS & EQUIPMENTS		SECTION 1		SMART CORE	APPENDIX
--------------------	--	-----------	--	------------	----------

23

SECTION 1: XR-42A90K

CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-014-887-11	FLEXIBLE FLAT CABLE 51P	CN6800(BM5S22)-CN5(TCON)(1)
2	1-014-886-11	FLEXIBLE FLAT CABLE 41P	CN6801(BM5S22)-CN7(TCON)(1)
3	1-014-885-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5S22)-CN102(HY1)(1)
4	1-014-884-11	FLEXIBLE FLAT CABLE 20P	CN3803(BM5S22)-WIFI(1)
5	1-014-918-11	CONNECTOR ASSY 6P	CN6613(BM5S22)-SPK-EX(1)
6	1-014-916-11	CONNECTOR ASSY 20P	CN1700(BM5S22)-CN6401(G93G)(1)
7	1-014-917-11	CONNECTOR ASSY 28P	CN6601(G93G)-CN6(TCON)-CN8(TCON)(1)

						24
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	27
		•			•	SYS SET

SECTION 1: XR-42A90K

OTHER PARTS

PART NO.	DESCRIPTION	UCM	REMARKS
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	-
5-035-707-01	BAG, SCREW (ML LIO) A	•	Including SCREW, +PSW M5X12XW10 (Qty 8) & SCREW, CS M4X11 (Qty 4)
4-262-708-04	CLAMPER, CABLE	•	-
1-849-274-11	POWER-SUPPLY CORD (WITH CONN.)	•	
1-013-685-22	REMOTE COMMANDER (RMF-TX900U)	•	-
*5-039-051-11	REFERENCE GUIDE	•	-
*5-037-332-11	SETUP GUIDE	•	-
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	-

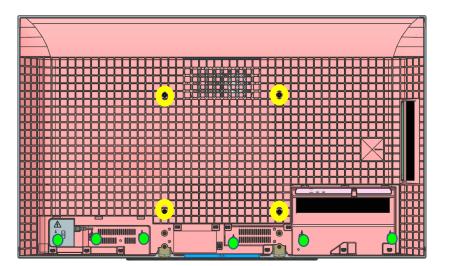
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	25

REAR COVER

1. Remove screws from the rear cover

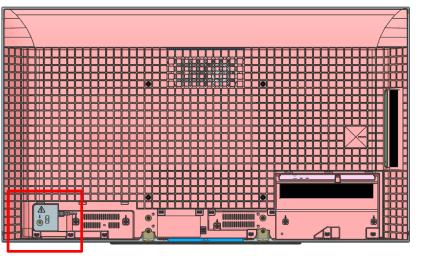
0	Ornament Screw M6	4 pcs
	Step screw M3	6 pcs

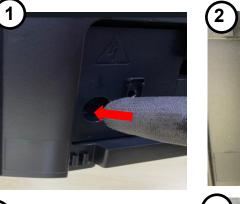
Total screws is 10 pcs



2. Remove AC Connector

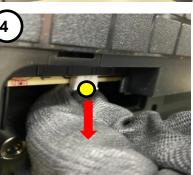
- 1. Use finger to slot into AC cover screw hole
- 2. Pull out the AC cover then remove it
- 3. Slide AC Cable to left side until detach from rear cover
- 4. Remove the connector by push yellow area & slide down while still push yellow point







3



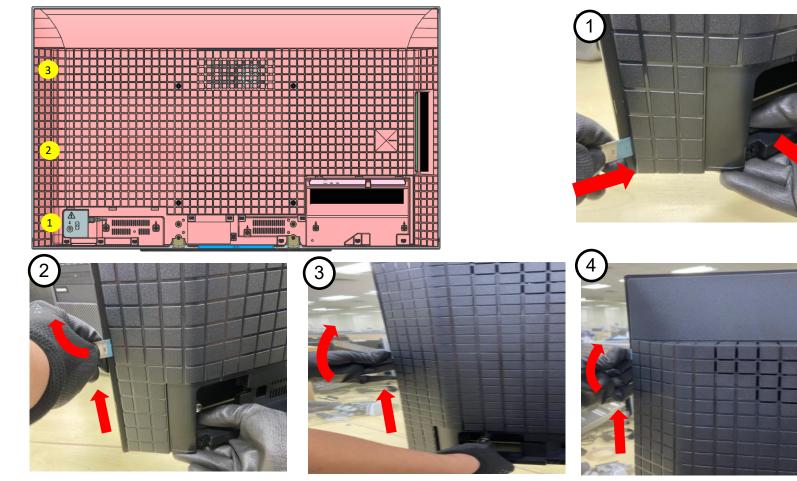
2-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

- 3. Unhook left side hook
- Use 1 hand to pull the rear cover, until creating gap between rear cover & back chassis, then slide in the ruler
- Slide up ruler until hook 1 location, then rotate the ruler to front of TV until hear pop-out sound, that indicate the hook is disassemble
- Slide up ruler to hook 2 location, then repeat
 same as step 2 above
- Slide up ruler to hook <a>Iocation, then repeat same as step 2 above

Notes :

- i. Refer to page 30 for specific hook location
- ii. Ruler or jig to release corner hook
- iii. Wrap ruler with tape to prevent scratch





2-1. DISASSEMBLY AND REMOVAL CAUTION

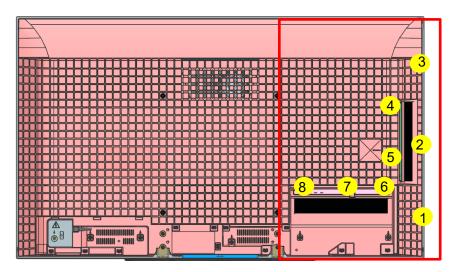
REAR COVER

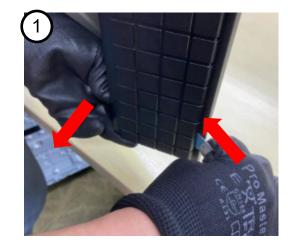
- 4. Unhook right side hook
- Use 1 hand to pull the rear cover a little bit, to create gap between rear cover & back chassis then carefully slide in the ruler
- Slide up ruler until hook 1 location, then rotate the ruler to front of TV until hear pop-out sound that indicate the hook is disassemble
- 3. Slide up ruler to hook 2 location, then repeat same as step 2 above
- 4. Slide up ruler to hook 3 location, then repeat same as step 2 above
- 5. Normally hook 4 5 6 7 8 will detach when disassemble hook 1 & 2 . but if not, then gently pull the rear cover toward back will do

Notes :

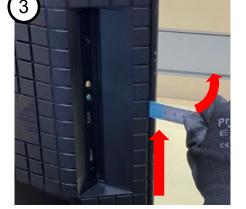
- i. Refer to page 30 for specific hook location
- ii. Ruler or jig to release corner hook
- iii. Wrap ruler with tape to prevent scratch

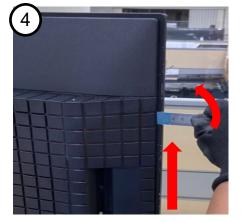












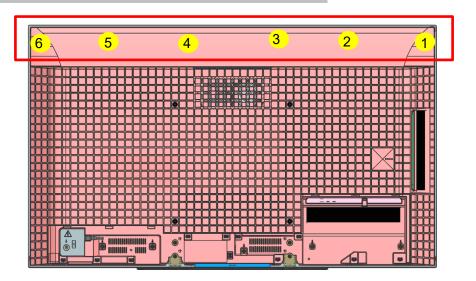


REAR COVER

- 5. Unhook top hook
- 1. Hold bottom side of rear cover using both hand then push up the rear cover gently toward upside
- 2. Repeat step 1 gently, until top side of rear cover is detached

Notes :

i. Refer to next page for specific hook location





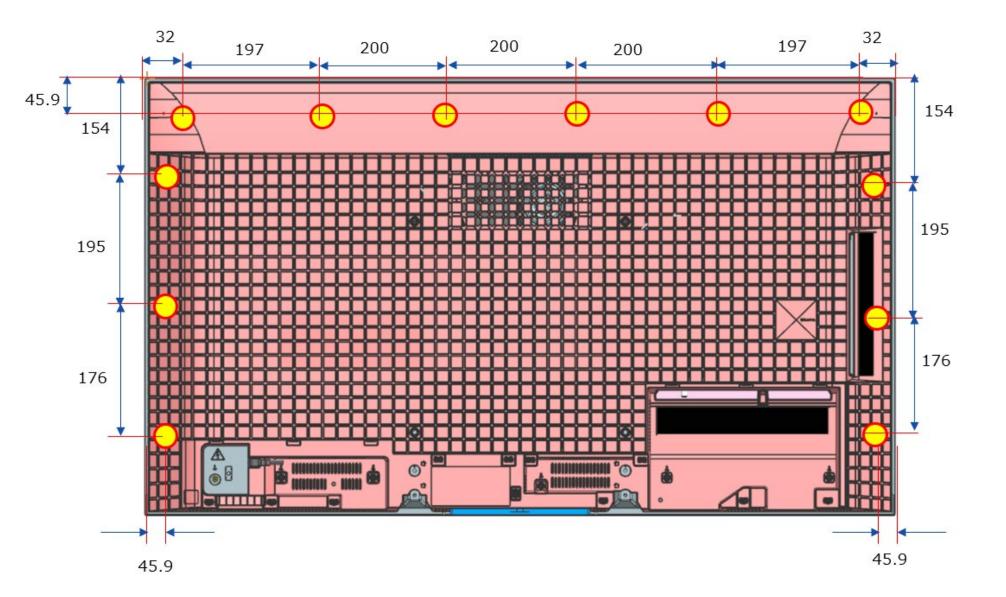


2-1. DISASSEMBLY AND REMOVAL CAUTION

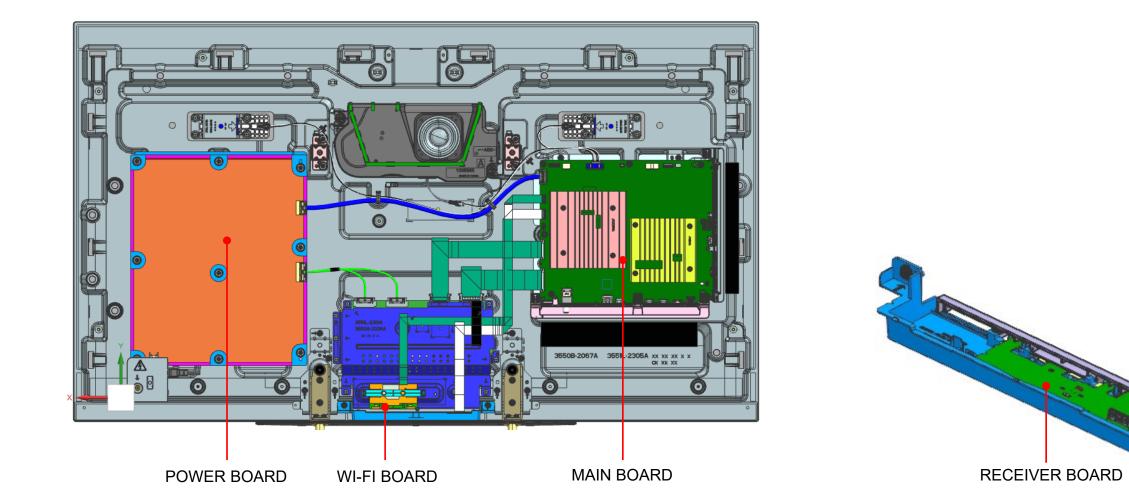
2-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

6. Hooks Positioning



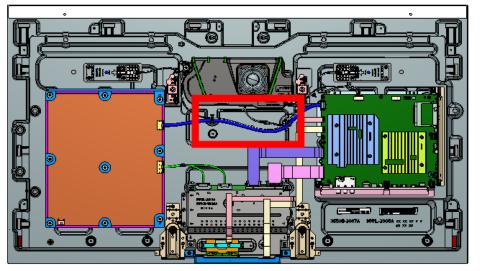
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	
--------------------	-----------------	-----------	-----------	------------	--

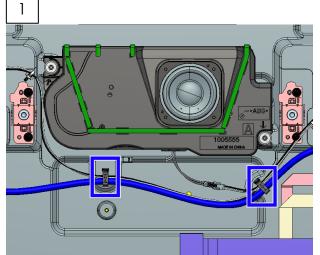


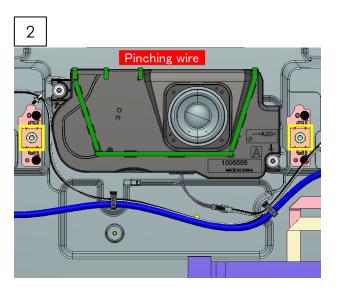
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX

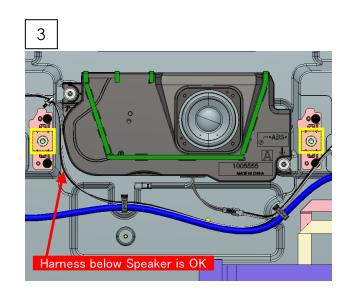
2-3. WIRE DRESSING

WIRE DRESSING





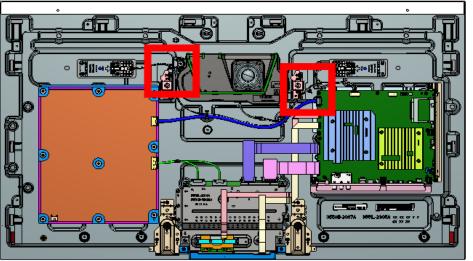


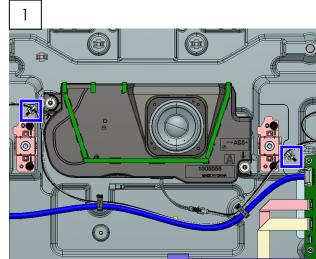


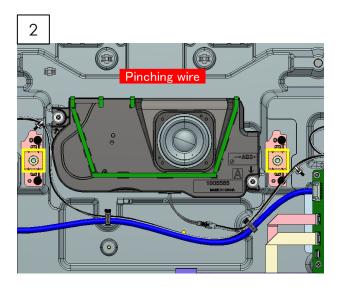
TOOLS & EQUIPMENTS			

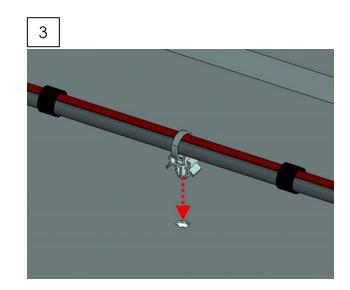
2-3. WIRE DRESSING

WIRE DRESSING



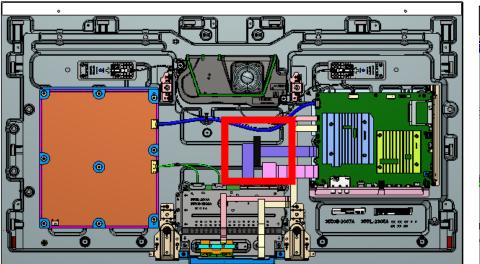


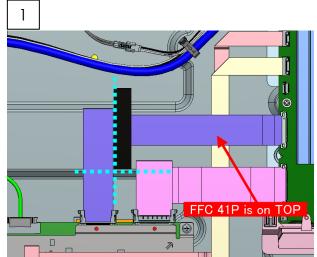


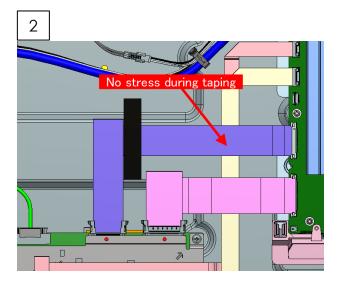


TOOL		T D V L	

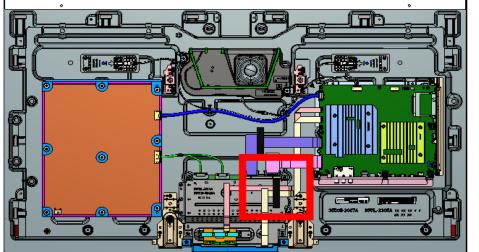
<u>TAPE</u>

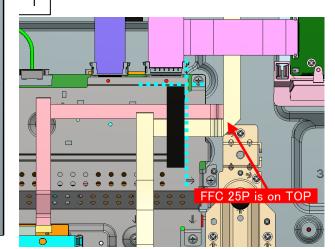


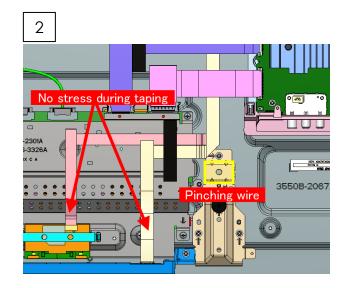




<u>TAPE</u>

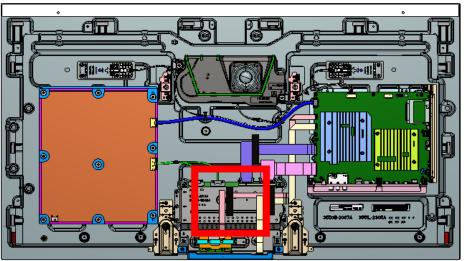


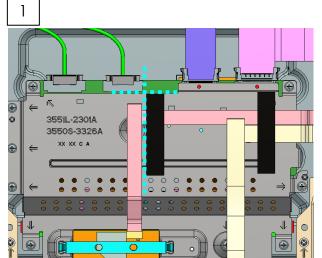


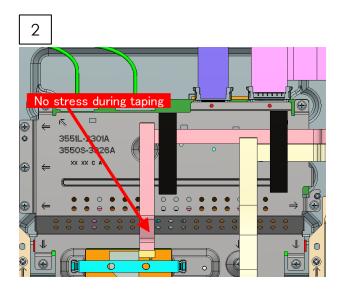


2-3. WIRE DRESSING

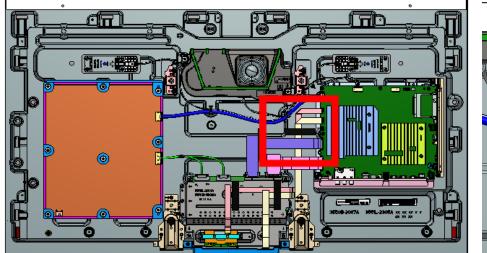
<u>TAPE</u>

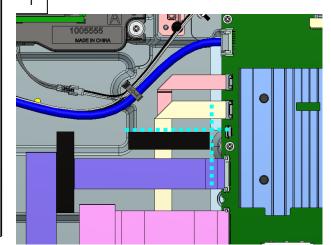


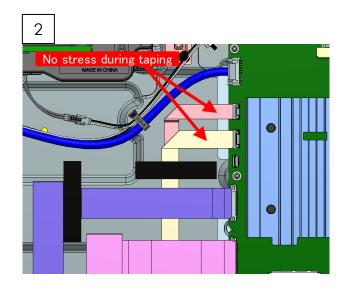




<u>TAPE</u>





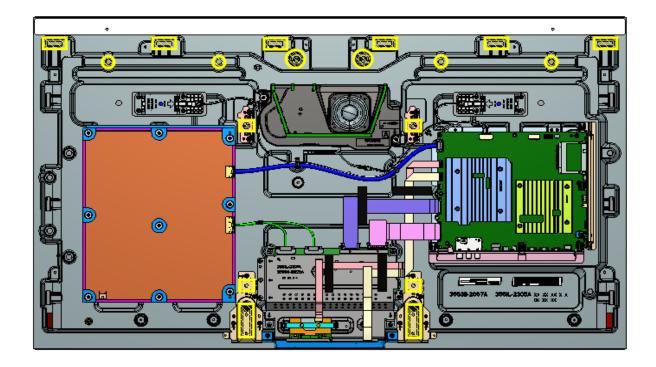


2-3. WIRE DRESSING

INFORMATION

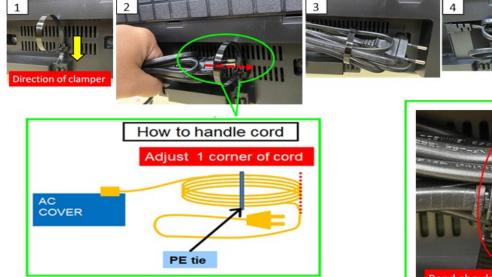
SECTION 2: XR-48A90K

Keep harness away from inhibit area.



WIRE DRESSING

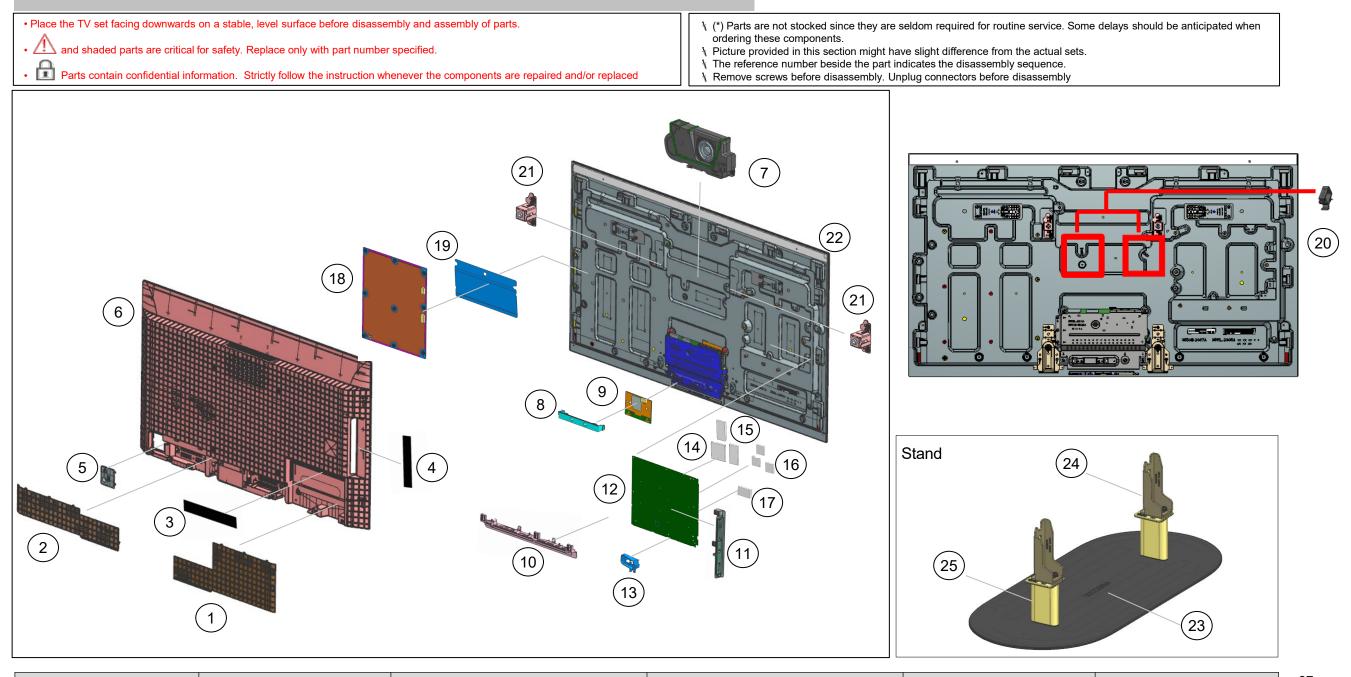
- Make sure of the direction of clamper.
 Let bundled cord into clamper.
- 3. AC plug in front side.
- 4. Pull band to the left tightly.





TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	36

2-4. EXPLODED VIEW AND PART LIST



SECTION 2

37

SYS SET

2-4. EXPLODED VIEW AND PART LIST

SET PART LIST

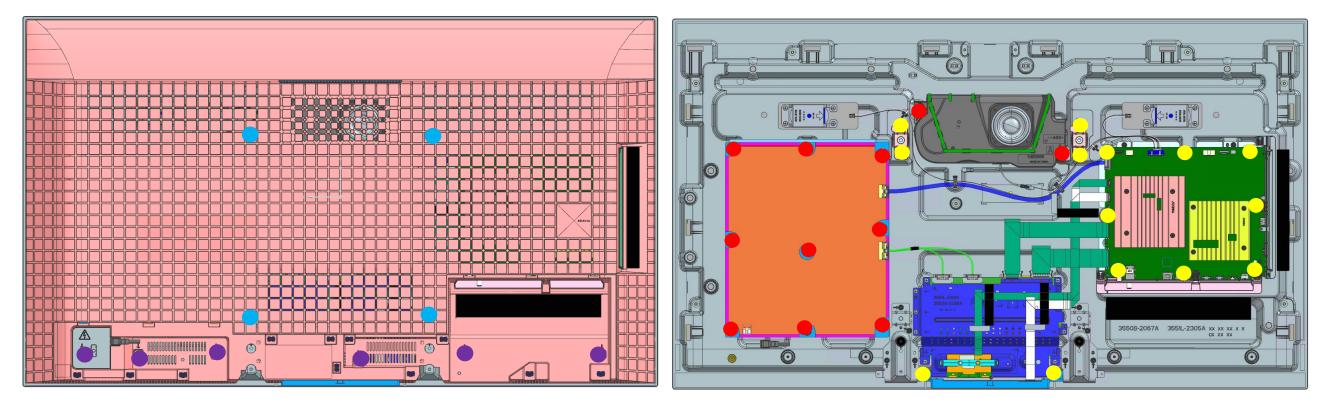
REF. NO	PART NO.	DESCRIPTION	UCM
1	5-033-673-01	TERMINAL COVER (M LIO)	•
2	5-033-674-01	COVER AC (M LIO)	•
3	5-036-141-01	LABEL, UNDER TERMINAL (BM5S22)	•
4	5-036-145-31	LABEL, SIDE TERMINAL (BM5S22)	•
⚠ 5	4-745-608-01	AC COVER (AT)	•
6	5-033-649-01	REAR COVER (M LIO) A	•
7	1-005-555-32	SP-BOX ASSY,FY20 D40-WF-DRN	•
8	5-009-258-21	BRACKET, WIFI(BNN)	•
9	1-005-419-32	WLAN/BT MODULE(11AC)FXC	•
10	4-724-146-14	BRACKET, UNDER (BM2A)	•
11	5-036-017-21	BRACKET SIDE(SGT)	•
12	A-5044-985-A	COMPL SVC BM5S22B_FL_UCMX	•
13	5-023-281-02	KEY,TOP(SGT)	•
14	5-011-960-01	SHEET, THERMAL(LMN TCON)	•
15	5-023-557-01	SHEET THERMAL(BM5S21 DDR)	•
16	4-699-975-02	SHEET,THERMAL(5567H)	•
17	5-020-359-01	SHEET, THERMAL CSOT (APL)	•
18	1-010-088-21	G93G- STATIC CONVERTER(TV)	•

REF. NO	PART NO.	DESCRIPTION	UCM
19	5-015-816-01	SHT, INSULATION (DRN M)	•
20	2-650-770-31	SLIDE, CLAMP	•
21	*5-023-713-01	BRACKET, VESA(3L LMN)	•
<u>^</u> 22	1-014-957-11	OLED PANEL(L48EAQP1B)	•
23	5-035-696-01	STAND BASE (ML LIO) A	•
24	5-035-705-01	NECK STD (ML LIO) A	•
25	5-035-702-01	STAND ARM (ML LIO) A	•

SECTION 2

2-4. EXPLODED VIEW AND PART LIST

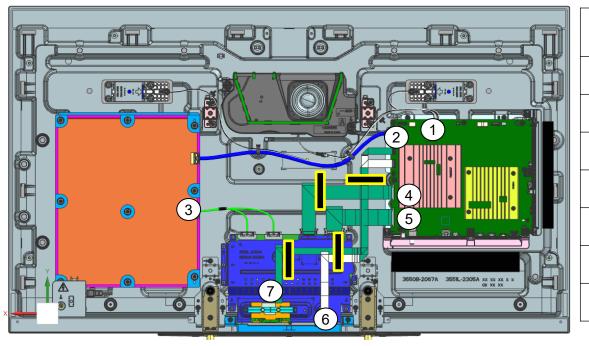
SCREW



REMARKS	P/N	DESCRIPTION	QTY	TORQUE (N.m)
•	4-256-393-12	SCREW, +PSW M3X6 W12	11	0.4 ± 0.05
•	4-472-518-11	SCREW, +PSW M3X6	14	0.4 ± 0.05
	4-268-126-02	SCREW, ORNAMENTAL M6X12	4	1.2 ± 0.1
	4-579-926-01	SCREW M3X3.0 STEP	6	0.4 ± 0.05

TOOLS & EQUIPMENTS FFC PRECAUTIONS SECTION 1	SECTION 2 SMART CORE	APPENDIX	39
--	----------------------	----------	----

CONNECTOR



PART NO.	DESCRIPTION	REMARKS
1-014-688-11	CONNECTOR ASSY 6P	CN6613(BM5S22)-SPK-EX(1)
1-014-689-11	CONNECTOR ASSY 20P	CN1700(BM5S22)-CN6401(G93G)(1)
1-014-690-11	CONNECTOR ASSY 28P	CN6601(G93G)-CN6(TCON)-CN8(TCON)(1)
1-014-695-11	FLEXIBLE FLAT CABLE 41P	CN6801(BM5S22)-CN7(TCON)(1)
1-014-697-11	FLEXIBLE FLAT CABLE 51P	CN6800(BM5S22)-CN5(TCON)(1)
1-014-693-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5S22)-CN102(HY1)(1)
1-014-691-11	FLEXIBLE FLAT CABLE 20P	CN3803(BM5S22)-WIFI(1)
	1-014-688-11 1-014-689-11 1-014-690-11 1-014-695-11 1-014-697-11 1-014-693-11	1-014-688-11CONNECTOR ASSY 6P1-014-689-11CONNECTOR ASSY 20P1-014-690-11CONNECTOR ASSY 28P1-014-695-11FLEXIBLE FLAT CABLE 41P1-014-697-11FLEXIBLE FLAT CABLE 51P1-014-693-11FLEXIBLE FLAT CABLE 25P

TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	40
						SYS SET

2-4. EXPLODED VIEW AND PART LIST

OTHER PARTS

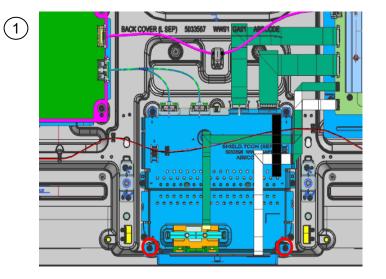
PART NO.	DESCRIPTION	UCM	REMARKS
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	-
5-035-707-01	BAG, SCREW (ML LIO) A	•	Including SCREW, +PSW M5X12XW10 (Qty 8) & SCREW, CS M4X11 (Qty 4)
4-262-708-04	CLAMPER, CABLE	•	-
1-849-274-11	POWER-SUPPLY CORD (WITH CONN.)	•	-
1-013-685-22	REMOTE COMMANDER (RMF-TX900U)	•	-
*5-039-051-11	REFERENCE GUIDE	•	-
*5-037-332-11	SETUP GUIDE	•	-
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	-

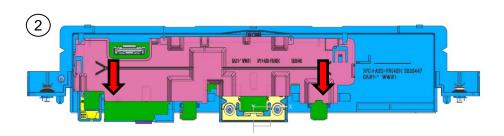
TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	41
						SYS SET

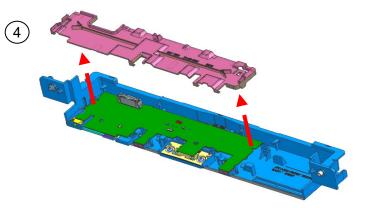
SMART CORE

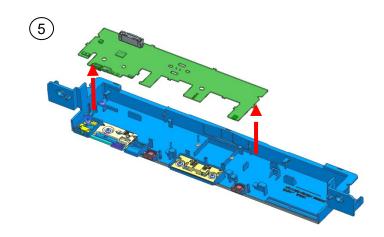
DISASSEMBLE SMART CORE

- 1. Remove screws quantity 2pcs.
- 2. Slide the Cover Top
- 3. Confirm all the hooks area are released
- 4. Open the Cover Top
- 5, Open the H-Board

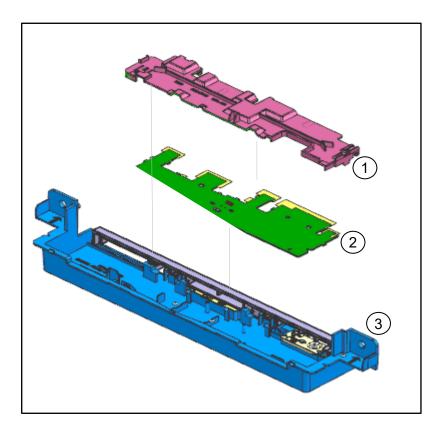








 DISASSEMBLY AND REMOVAL CAUTION

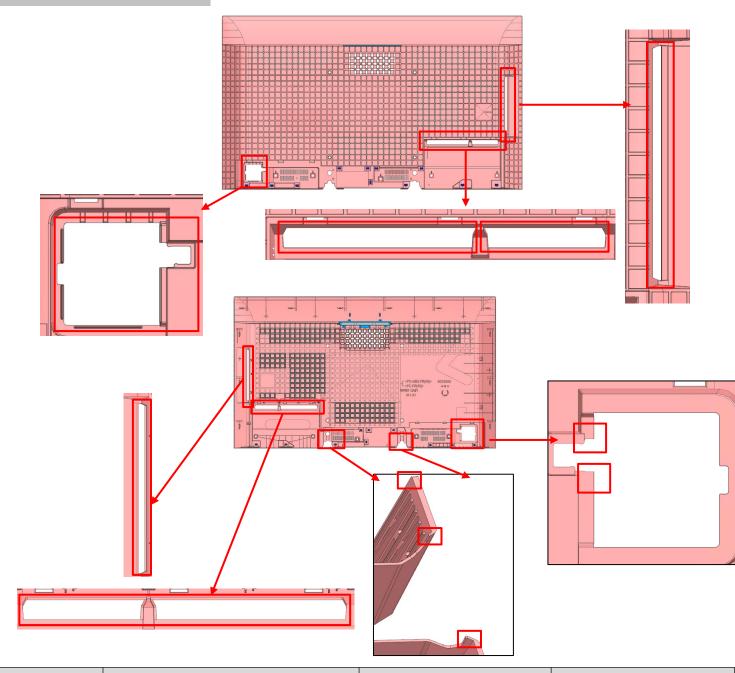


REF	. NO	PART NO.	DESCRIPTION
1	1	*5-035-448-11	COVER,TOP (SEP)
2	2	A-5042-390-A	FL_HY1_MIC_WW_EV_OS_PR MOUNT
3	3	5-036-863-31	COVER,BTM (SEP) A

TOOLS & EQUIPMENTS	FFC PRECAUTIONS	SECTION 1	SECTION 2	SMART CORE	APPENDIX	43
						SYS SET

Recommended Precautions

• Use fabric glove or equivalent while handle the Rear Cover

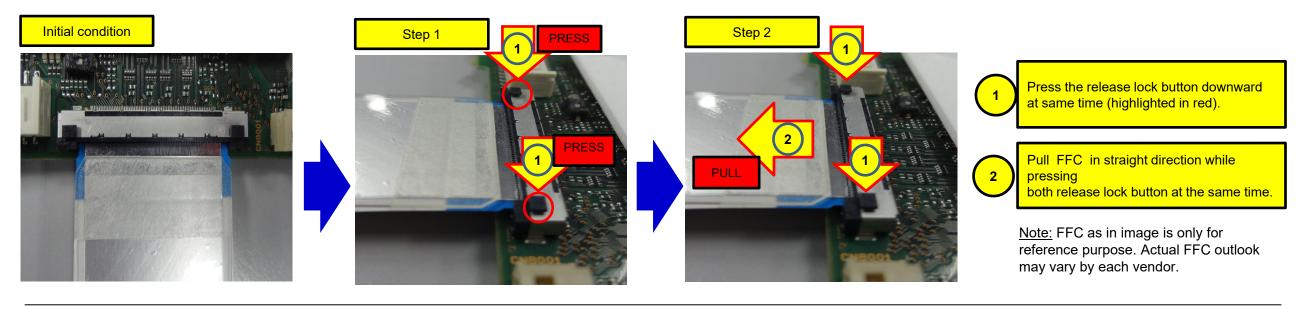


: Sharp edge location

Hook position may vary according to inch

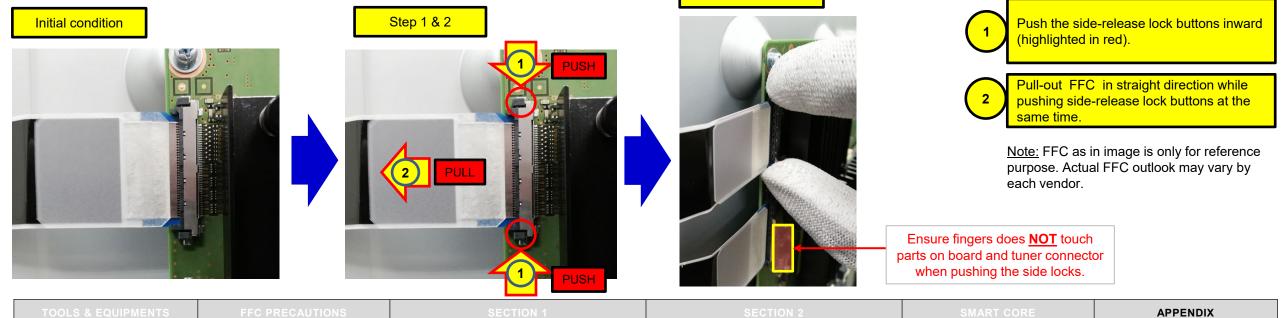
FFC REPLACEMENT CAUTIONS

WITHDRAWAL OF 41P / 51P FFC CONNECTOR (TYPE 1)



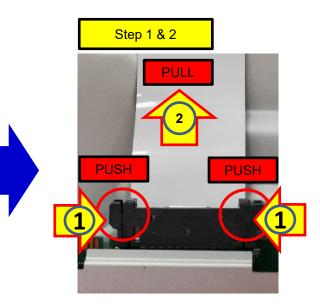
Caution

WITHDRAWAL OF 41P / 51P FFC CONNECTOR (TYPE 2)



WITHDRAWAL OF 41P / 51P FFC CONNECTOR (TYPE 3)





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

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

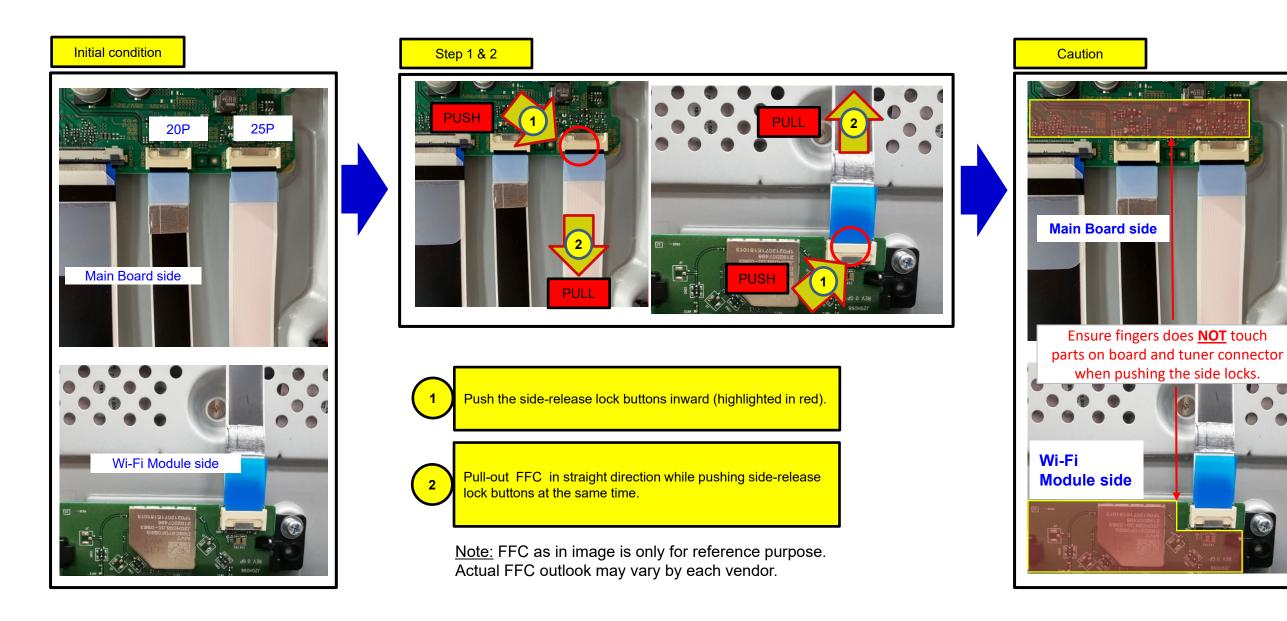
<u>Note:</u> FFC as in image is only for reference purpose. Actual FFC outlook may vary by each vendor.

Remark: Refer to Board Location and Connector Diagram

46	APPENDIX	SMART CORE	SECTION 2	SECTION 1	FFC PRECAUTIONS	TOOLS & EQUIPMENTS

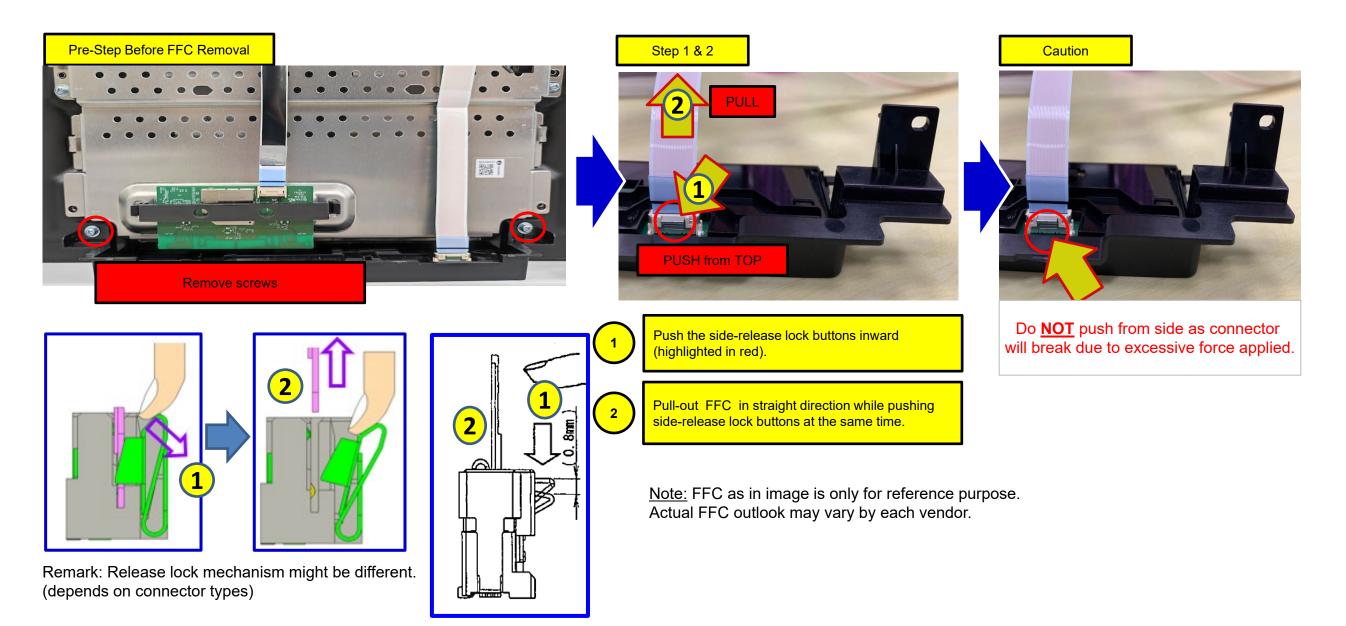
FFC REPLACEMENT CAUTIONS

WITHDRAWAL OF 20P / 25P FFC CONNECTOR



FFC REPLACEMENT CAUTIONS

WITHDRAWAL OF 25P FFC CONNECTOR



2023/12/21 05:25:19 (GMT+09:00)

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

9-888-907-U1