

SERVICE MANUAL (TROUBLESHOOTING)

ORIGINAL MANUAL ISSUE DATE: 2023.12

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9-888-795-21

OLED TV

SONY®

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

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



MODEL

XR-55A80J	XR-65A80J	XR-77A80J
-	XR-65A80CJ	XR-77A80CJ

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Please refer Service Manual (Disassembly) for below information:

- Disassembly and Removal Caution
- Wire Dressing
- Circuit Board Location
- Exploded Views and Part Lists

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 contained 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 could be in the neutral of the mains supply. When replacing the fuse, the mains shall be disconnected for 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 operation. 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 operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.
- 6) IMPORTANT REMINDER FOR TV MAINBOARD REPLACEMENT :

It is mandatory for service centers to confirm the TV's system information after each repair carried out with Mainboard 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.

*Do not recommend power-on in the conditions which laid face down the panel, in repair activity. Refer Figure 1.

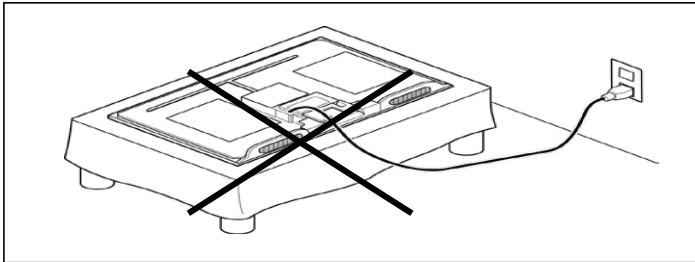
*When transporting by hand, do not put stress on the panel and the frame around the screen.

Refer to the panel handling chapter of each Service manual,

or the "Transporting" information of the Reference Guide of each model for how to hold it.

SAFETY NOTES

Figure 1.



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 TV's 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 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)

SAFETY NOTES

※Things to prepare in advance

ESD wrist-strap



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.

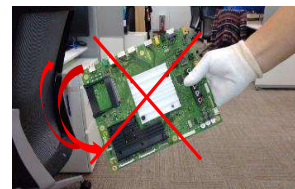
① Hold the board with both hands



② Do not hold/push Heat-Sink



③ Handle with care. Do not swing.



SAFETY NOTES

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



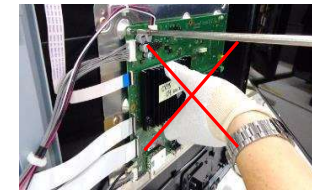
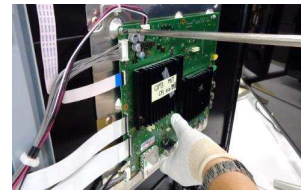
⑤Do not stack up



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



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



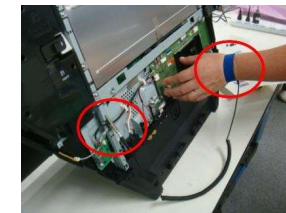
2) Caution for Board handling(ESD)

Be sure to observe the following contents.

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



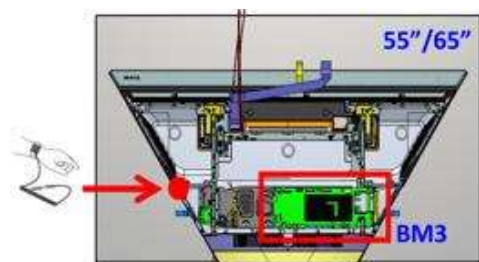
②Use ESD wrist-strap



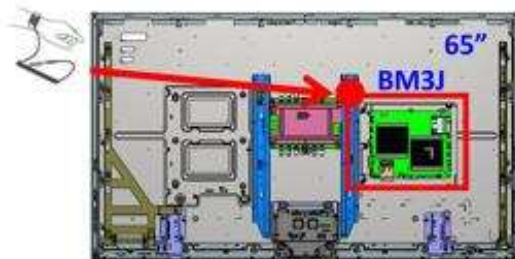
SAFETY NOTES

※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

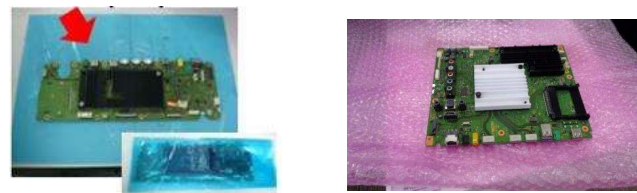
ESD wrist-strap to be checked daily.

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

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



④After 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



SAFETY NOTES

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 high-wattage 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, though functioning show obvious signs of deterioration. Point them out to the customer and recommend their 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 volt meter: Input resistance > 1 Mohm, Input capacitance < 200 pF, Frequency range: 15 Hz – 1MHz . Refer Figure 2. Isolated type volt -meter (FLUKE 8921A etc *1)

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

Leakage current of measurement instrument is less than 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

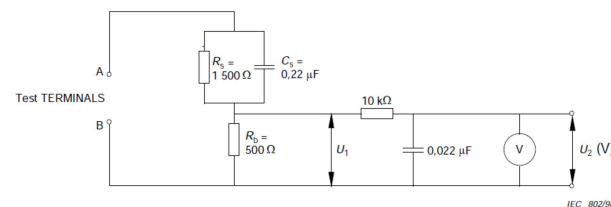


Figure 2 – Measuring network for Leakage Current

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).

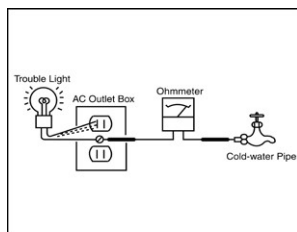


Figure B. Checking for earth ground.

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

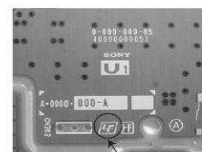


Figure 5: LF logo on circuit board

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 DIAGNOSTIC 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	Detection Items
2x	<B/G> Main 12V over voltage [MAIN_POWER]
3x	<B/G> Main 5.0V failure [DC_ALERT]
	<B/S/G> Audio amp. protection [AUD_ERR]
4x	<P/T/B/G> TCON internal error/TCON I2C communication failure [LD_ERR]
	<P/T/G/B> EVDD failure [BCM_ERR]
5x	<P/T/G/B> <i>Panel ID EEPROM I2C No ACK</i> (Also panel power failure is a suspect) [P_ID_ERR] <T/B> <i>Data corruption in EEPROM</i> [P_ID_ERR]
6x	<P/G/B> EVDD over voltage [BACKLIGHT_ERR]
7x	<P/B> Over temperature protection [TEMP_ERR]
8x	 4KBE failure (4KBE WDT) [4KBE_ERR]

Notes :

Blue italic: detect at startup sequence only.
 <G>: Power Supply board, : Main board,
 <T>: T-con board
 <P>: Panel module,
 <S>: Speaker,

SELF DIAGNOSTIC FUNCTION

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

Error Item	Detection Items
TU_DEMOD	-
TCON_ERR	-
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
EARC_ERR_I2C	-
8KBE_COM_ERR	-
8KSHV_ERR	-
AMB_ERR_I2C	-

Notes :

: Main board, <T>: T-con board,

<H>: LED / IR & sensor board,

SELF DIAGNOSTIC 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_MAINPOWR = 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.

Number of off/on action during the error shutdown is recorded to STDWN_OFFON_CNT.

*1) If $STDWN_OFFON_CNT \leq STDWN_RTRY_LIMIT$, and $STDWN_OFFON_CNT_MAIN_POWER \leq STDWN_RTRY_LIMIT_MAINPOWR$, 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.

TROUBLESHOOTING

Triage Chart

Before you make the service call...

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

RED DOT: Most likely defective part

BLUE TRIANGLE: Secondary possible defective part

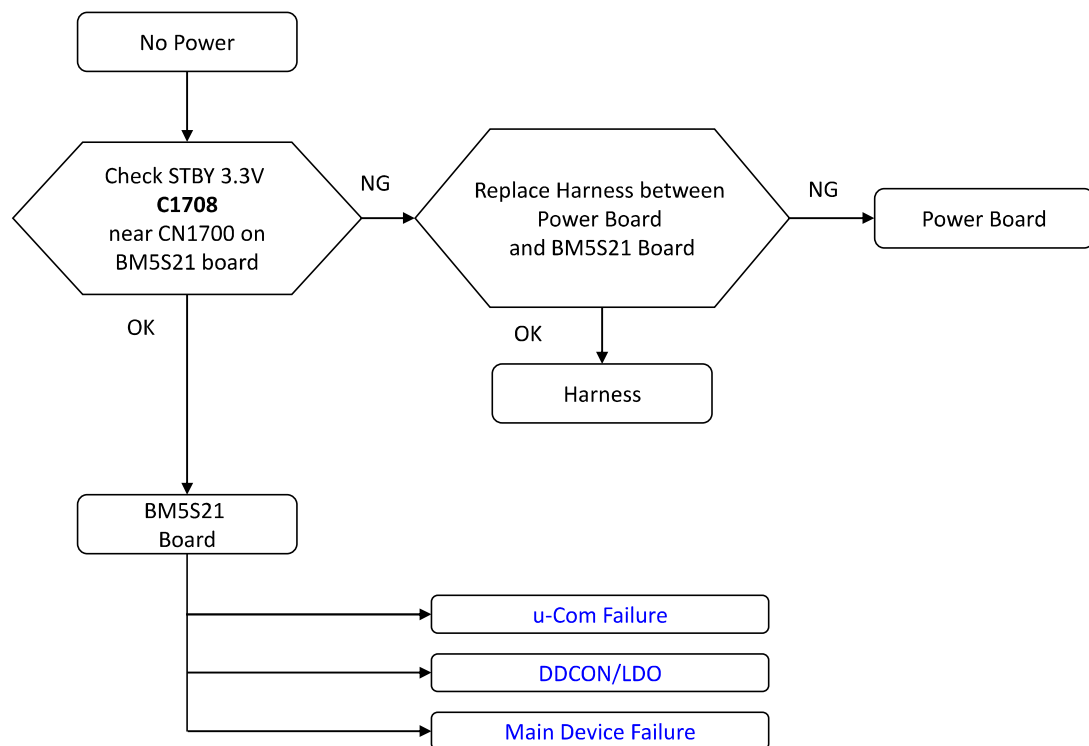
GREEN SQUARE: Tertiary possible defective part

BLACK TEXT: Board that may correct the symptom

Reference	Symptoms - Shutdown. Power LED blinking red diagnostics sequences							Symptoms - no shutdown Error log record only								No Power	Video - missing or distorted				Remote	Network	Audio	Smart Core	Bluetooth (BT)	
	2	3	4	5	6	7	8	TU_DEMOD_I2C	TCON_ERR_I2C	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 response to remote (Dead Set)	Stationary colored lines or dots	No video One of Inputs	No RF input	No video all Inputs	No Remote	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)		▲																						●		
Wifi & BT Module																						●				●
V By One FFC				▲														▲			▲					
Tcon (Panel module)			▲	●														▲			■					
OLED Panel (Panel module)			●	▲	●	▲												●			■					
Problem	Power	Power	Panel module	Panel (Communication)	Panel Power	TEMP	4KBE																			
		Audio	T-con Power	T-con																						

TROUBLESHOOTING

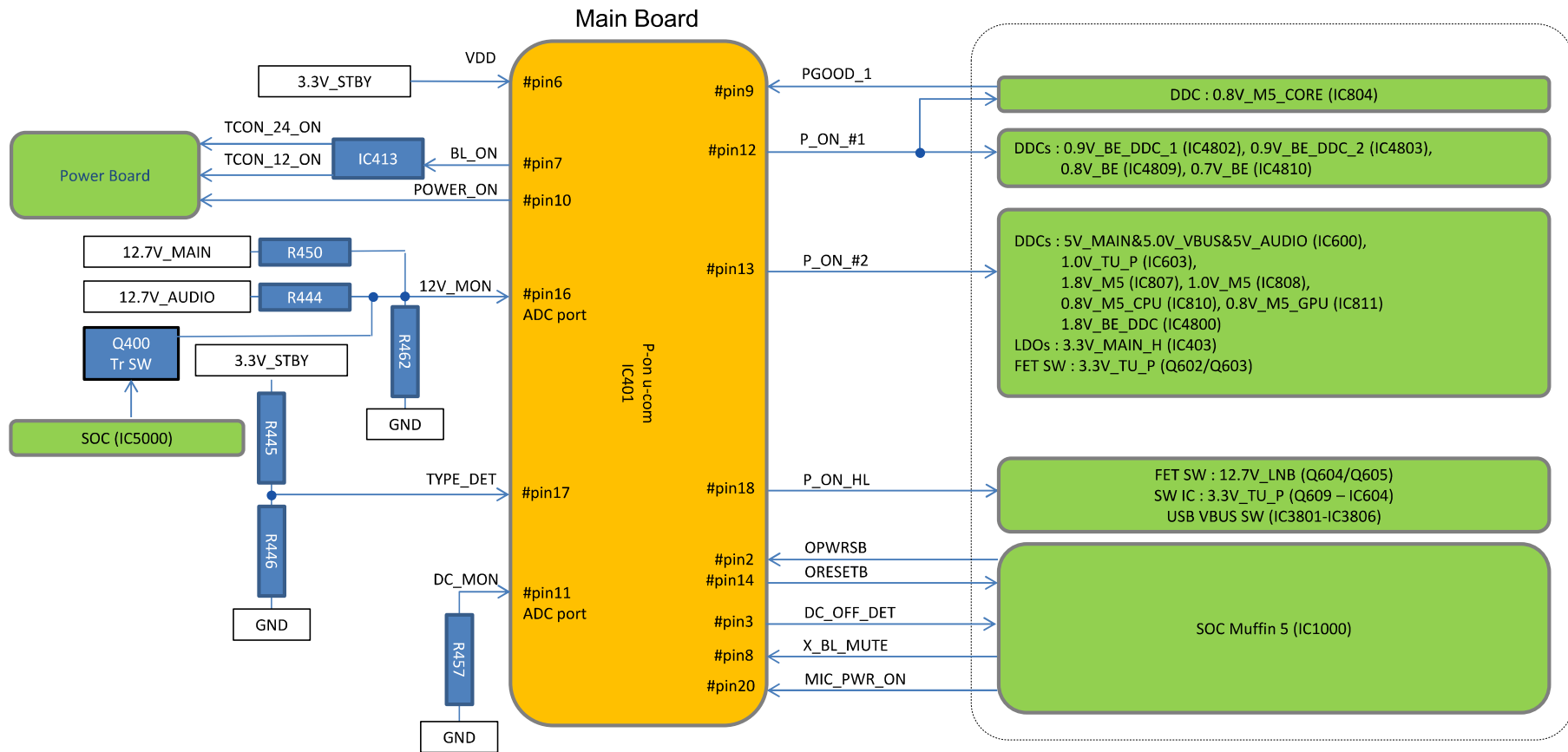
1.1 No Power



TROUBLESHOOTING

1.2 No Power U-Com Failure

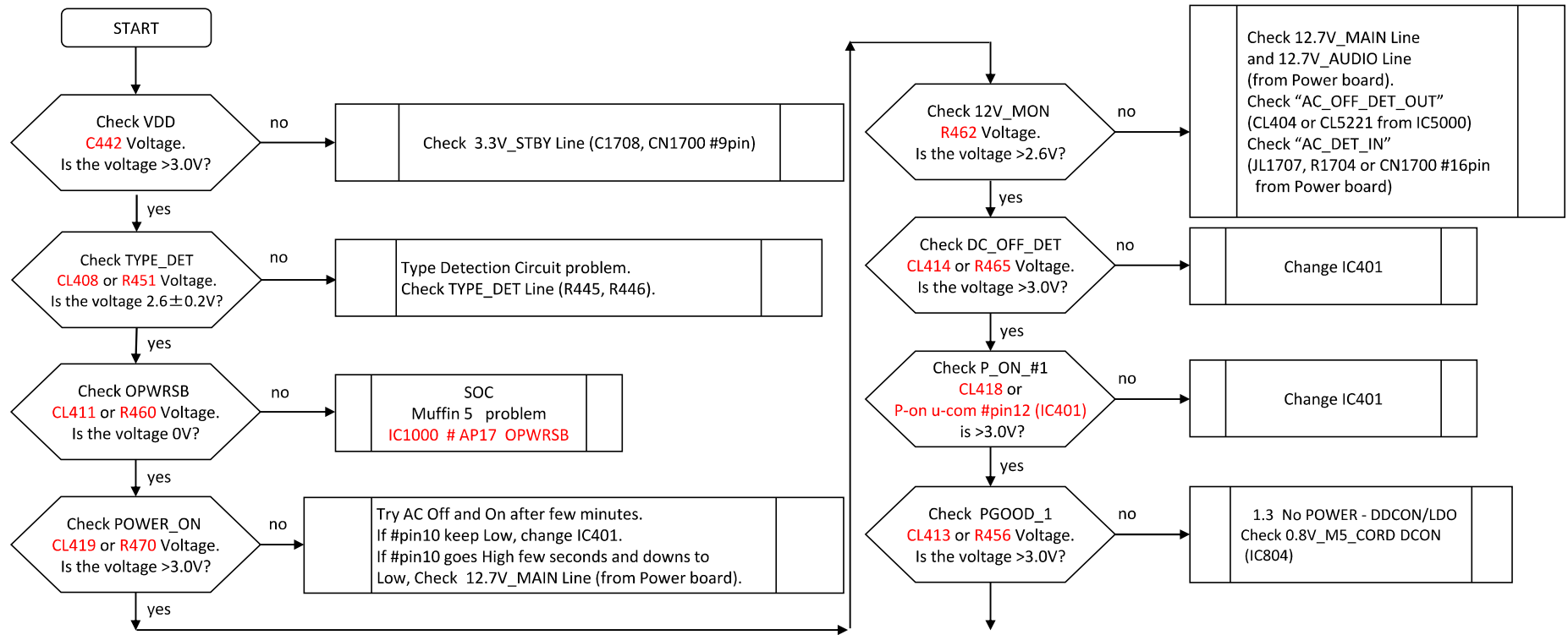
P-on u-com control signal path summary



TROUBLESHOOTING

1.2 No Power U-Com Failure

P-on u-com control signal path summary



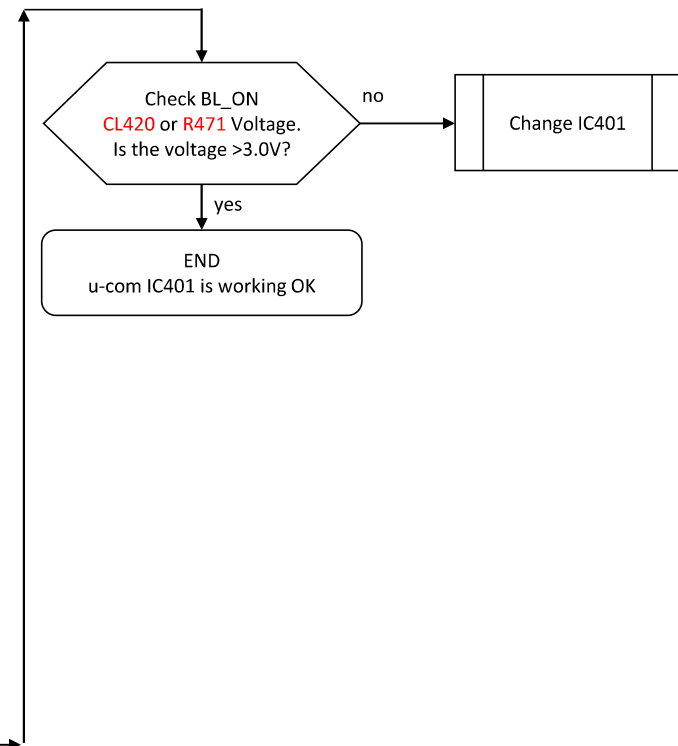
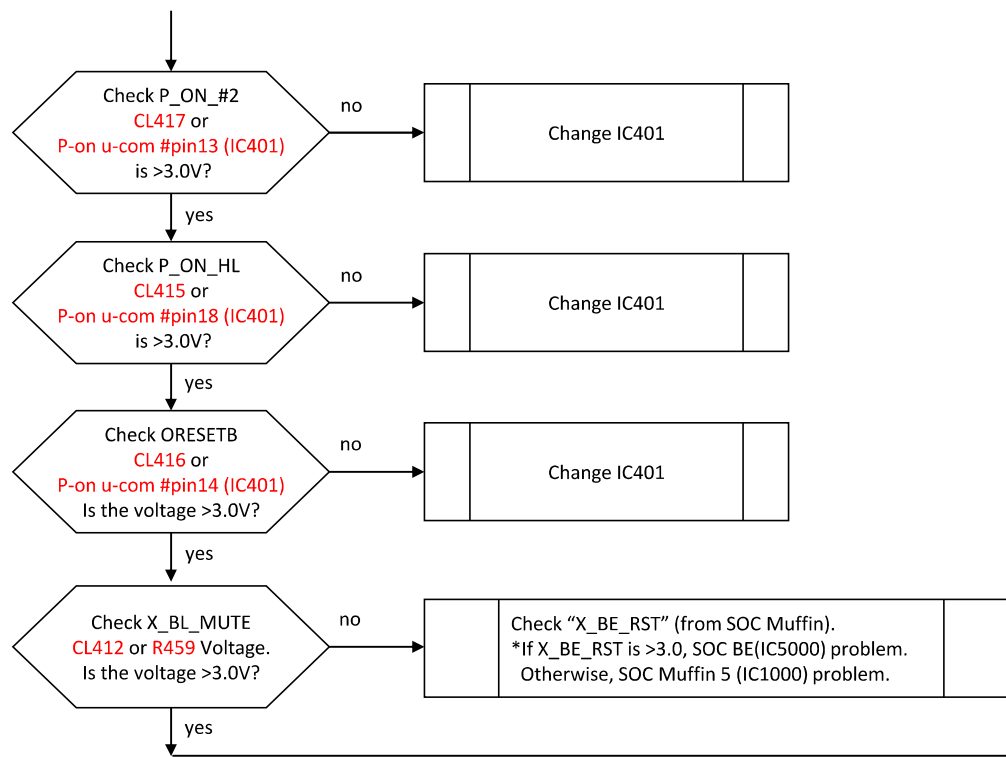
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TROUBLESHOOTING

1.2 No Power U-Com Failure

P-on u-com control signal path summary

Previous page



TROUBLESHOOTING

1.3 No Power DDCON / LDO

Check Item Summary

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
BM5S21	LDO	IC403	3.3V_MAIN_H	C416/CL402	R413(shorted)	P_ON_#2	-	C415
BM5S21	DC/DC	IC600	5V_MAIN/5V_AUDIO	C610/JL601	R600(shorted)/CL604	P_ON_#2	F600	C601
BM5S21	DC/DC	IC601	3.3V_MAIN/3.3V_AUDIO	C619/JL603	R658/CL605	R658(1.8V_BE_DDC)	F601	C618
BM5S21	DC/DC	IC603	1.0V_TU_P	C630/CL607	R631(shorted)/JL607	P_ON_#2 or IC1000 #AL18 (EWS_PWR_ON)	-	C628
BM5S21	DC/DC	IC801	1.1V_M5_DDR	C806/JL801	R913(shorted)	R804/R907 (3.3V_STBY)	-	C801/CL819
BM5S21	DC/DC	IC802	0.9V_M5_STBY	C809/CL803	R908(shorted)	R804/R907 (3.3V_STBY)	-	C807/CL822
BM5S21	DC/DC	IC803	1.8V_STBY	C812/CL811	R822(shorted)	R804 (3.3V_STBY)	-	C810/CL824
BM5S21	DC/DC	IC804	0.8V_M5_CORE	C846/JL803	R849(shorted)/CL816	P_ON_#1	F802	C831
BM5S21	LDO	IC806	1.8V_M5_ET_STBY	C818/JL808	R832(shorted)	IC1000 #AN19 (ETHER_PWR_EN)	-	C817/CL826
BM5S21	DC/DC	IC807	1.8V_M5	C823/JL811	R833(shorted)/CL827	P_ON_#2	F800	C822
BM5S21	DC/DC	IC808	1.0V_M5	C829/JL813	R839(shorted)/CL828	P_ON_#2	F801	C828
BM5S21	LDO	IC809	3.3V_M5_STBY	C816/CL831	R917	R917(3.3V_STBY)	-	C815
BM5S21	DC/DC	IC810	0.8V_M5_CPU	C861/JL816	R914/CL829	P_ON_#2	F803	C855
BM5S21	DC/DC	IC811	0.8V_M5_GPU	C874/JL818	R915/CL830	P_ON_#2	F804	C868

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

Check Item Summary

Board	Operation	IC Ref	Voltage supply	Output ref.	Enable pin	Enable source	Fuse	Vcc ref.
BM5S21	DC/DC	IC4800	1.8V_BE_DDC	C4805/JL4801	R4801(shorted)/CL4816	P_ON_#2	F4800	C4803
BM5S21	DC/DC	IC4801	1.1V_BE	C4813/JL4803	R4907/CL4817	R4907(1.8V_BE_DDC)	F4801	C4812
BM5S21	DC/DC	IC4802	0.9V_BE_DDC_1	C4820/JL4805	R4819(shorted)/CL4818	P_ON_#1	F4802	C4819
BM5S21	DC/DC	IC4803	0.9V_BE_DDC_2	C4828/JL4807	R4827(shorted)/CL4819	P_ON_#1	F4803	C4827
BM5S21	DC/DC	IC4809	0.8V_BE	C4860/JL4819	R4849(shorted)/CL4808	P_ON_#1	F4804	C4845
BM5S21	DC/DC	IC4810	0.7V_BE	C4878/JL4821	R4865(shorted)/CL4811	P_ON_#1	F4805	C4863

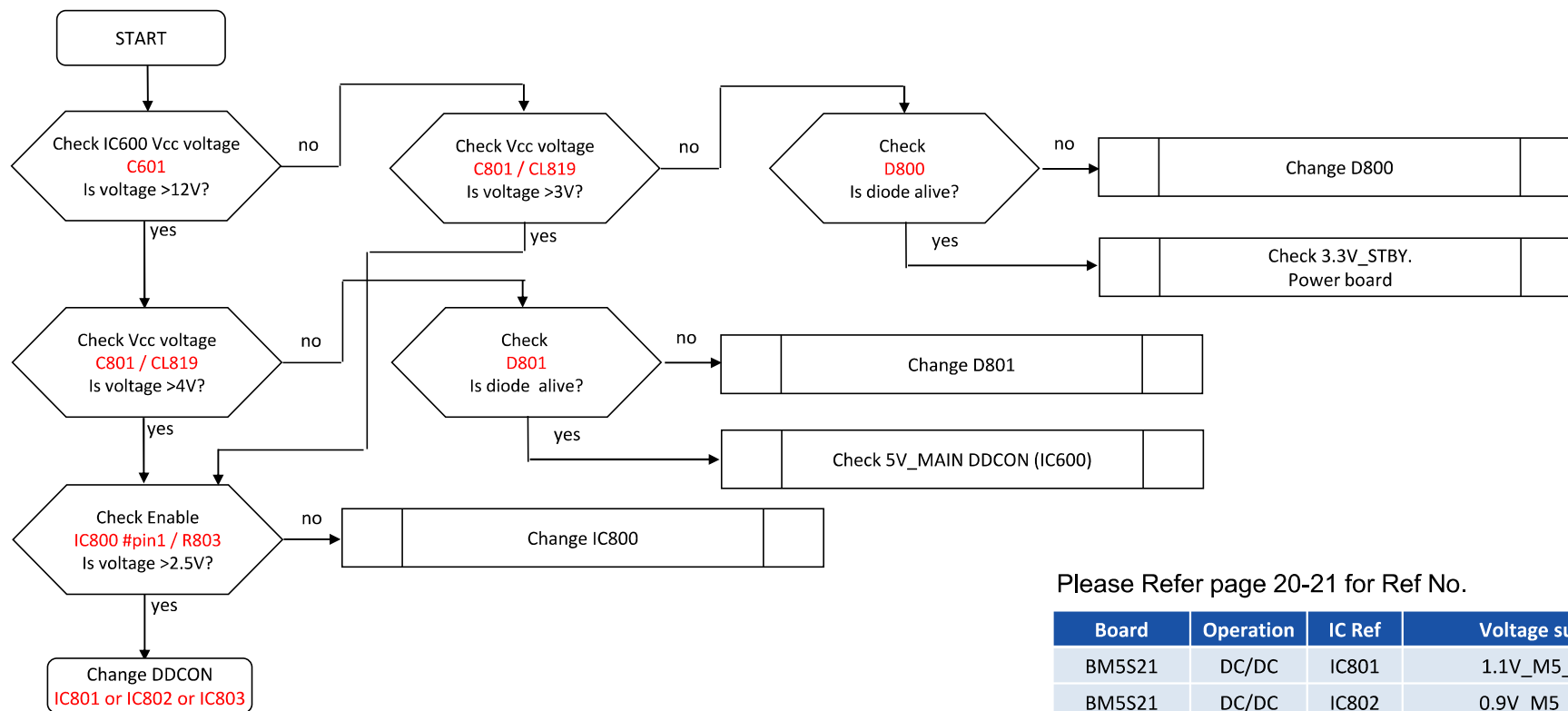
P_ON_#1 : P-on u-com IC401 #pin12

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

TROUBLESHOOTING

1.3 No Power DDCON / LDO

DDCONs Check



Please Refer page 20-21 for Ref No.

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

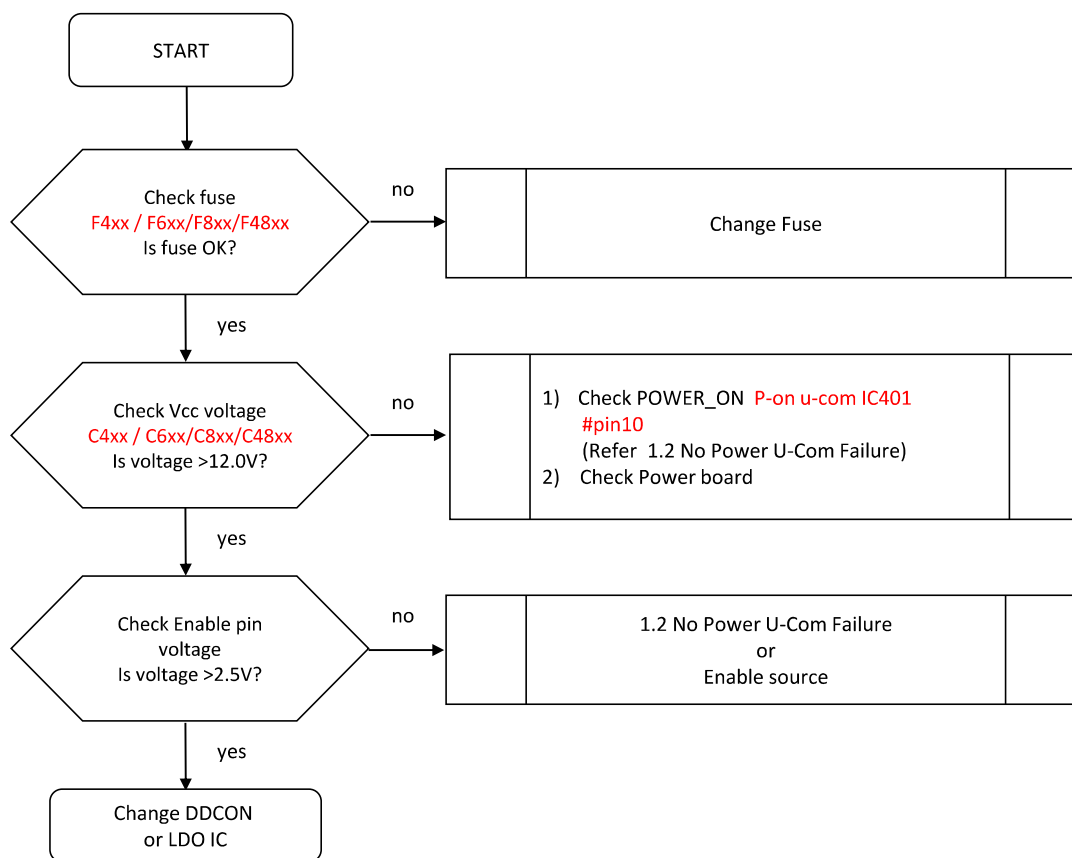
TROUBLESHOOTING

1.3 No Power DDCON / LDO

DDCONs & LDO Check

Please Refer page 20-21 for Ref No.

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



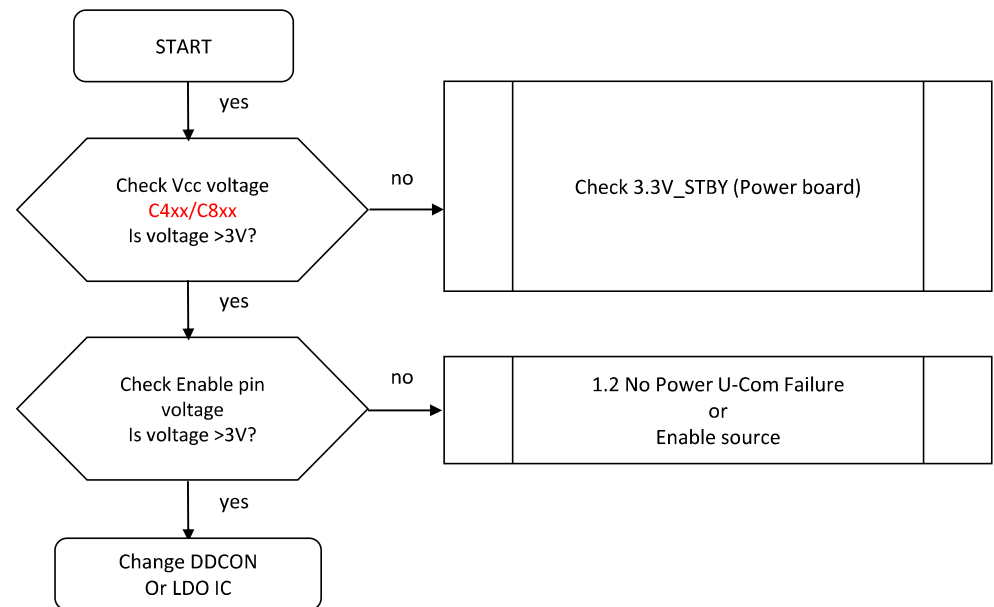
TROUBLESHOOTING

1.3 No Power DDCON / LDO

DDCONs & LDOs Check

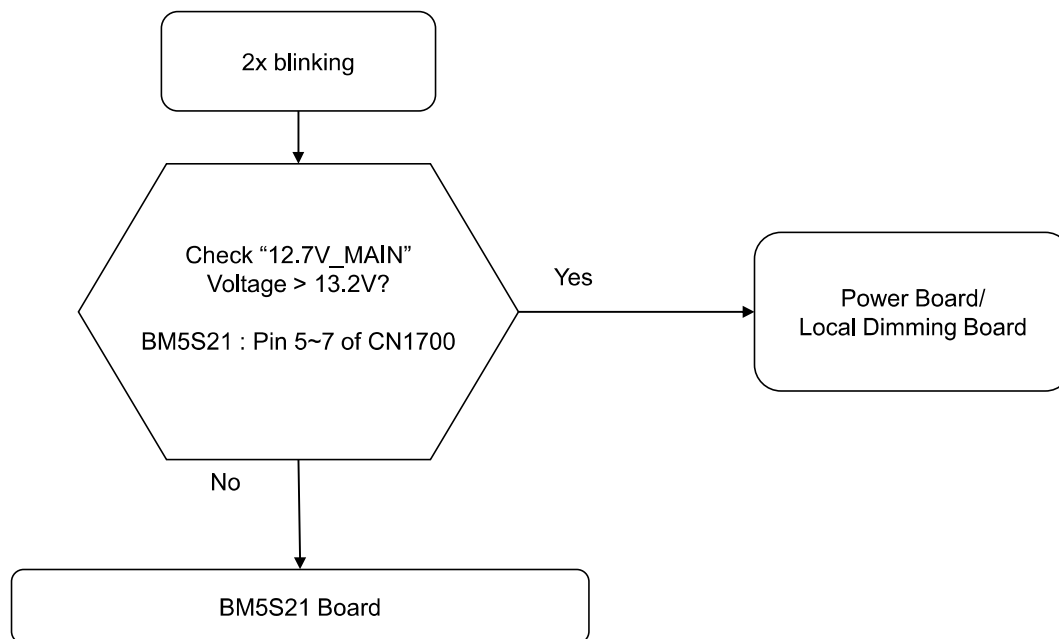
Please Refer page 20-21 for Ref No.

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




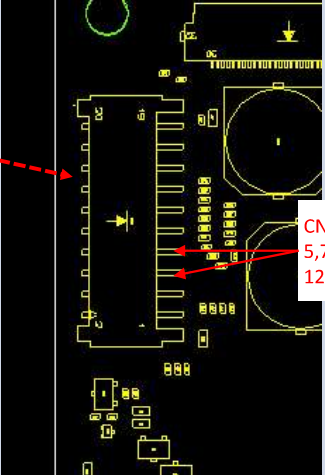
TROUBLESHOOTING

2.0 2x LED Blinking : Main Power Error



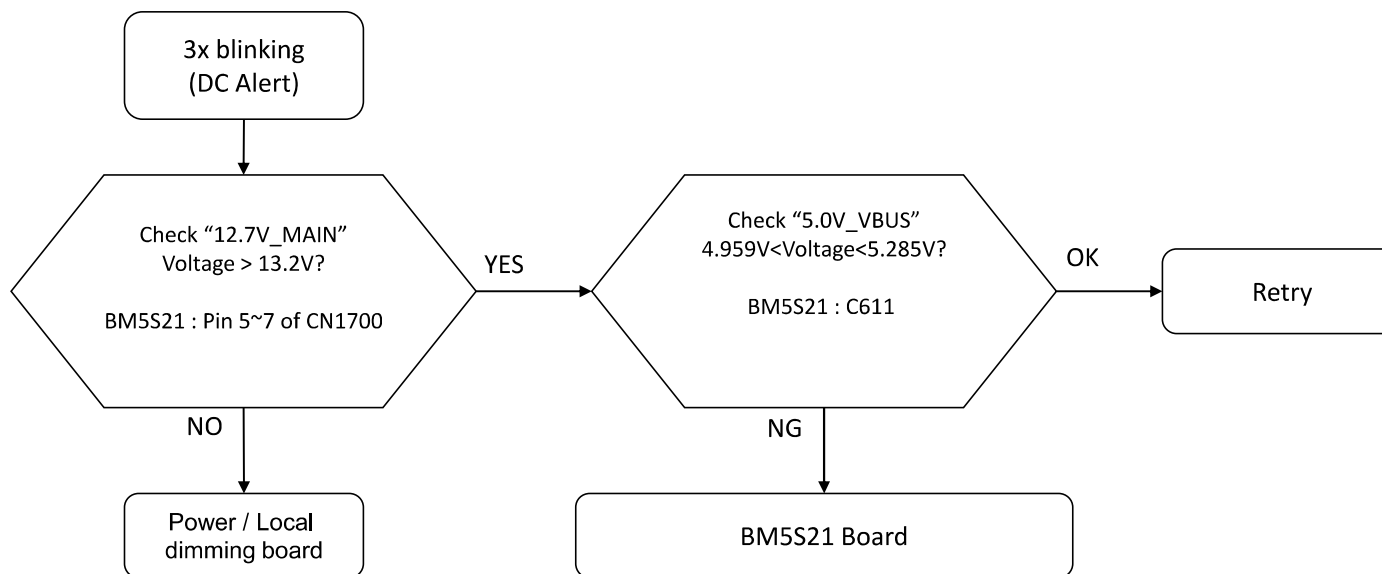
TROUBLESHOOTING

2.0 2x LED Blinking : Main Power Error

Name	Board PWB (A side)	Detail
BM5S21	 <p>The image shows the A-side of the Board PWB. A red rectangle highlights the location of connector CN1700 in the upper left quadrant. A red dashed arrow points from this connector to the detailed view in the adjacent column.</p>	 <p>The detail view shows the CN1700 connector with a red arrow pointing to pins 5 and 7. A text box indicates: CN1700 5,7pin 12.7V_MAIN.</p>

TROUBLESHOOTING

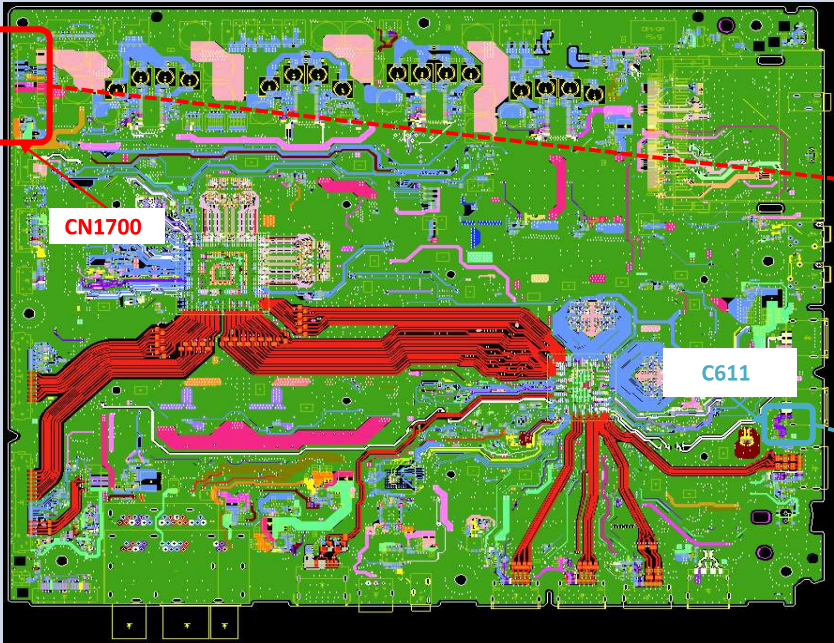
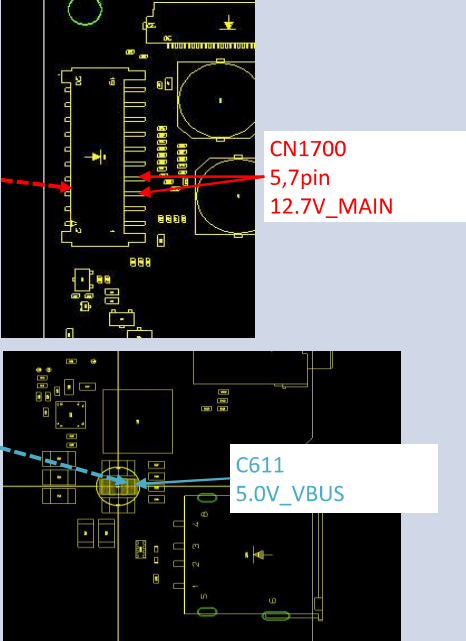
2.1 3x LED Blinking : DC Alert



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

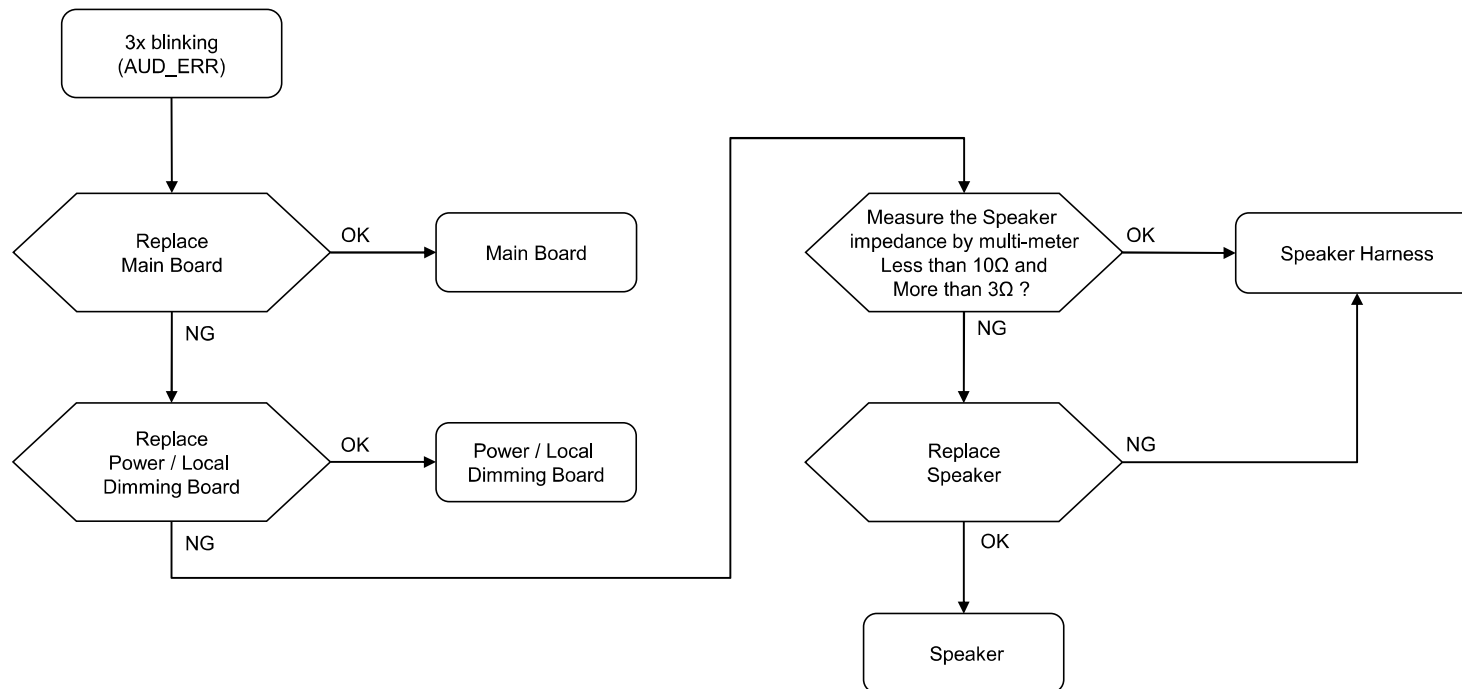
TROUBLESHOOTING

2.1 3x LED Blinking : DC Alert

Name	Board PWB (A side)	Detail
BM5S21	 <p>The image shows the A-side of the Board PWB for BM5S21. A red box highlights the CN1700 connector area in the upper left. A blue box highlights the C611 component area in the lower right. Red traces are visible across the board.</p>	 <p>Two detail views are provided. The top view shows the CN1700 connector with labels for 5,7pin and 12.7V_MAIN. The bottom view shows the C611 component with a label for 5.0V_VBUS.</p>

TROUBLESHOOTING

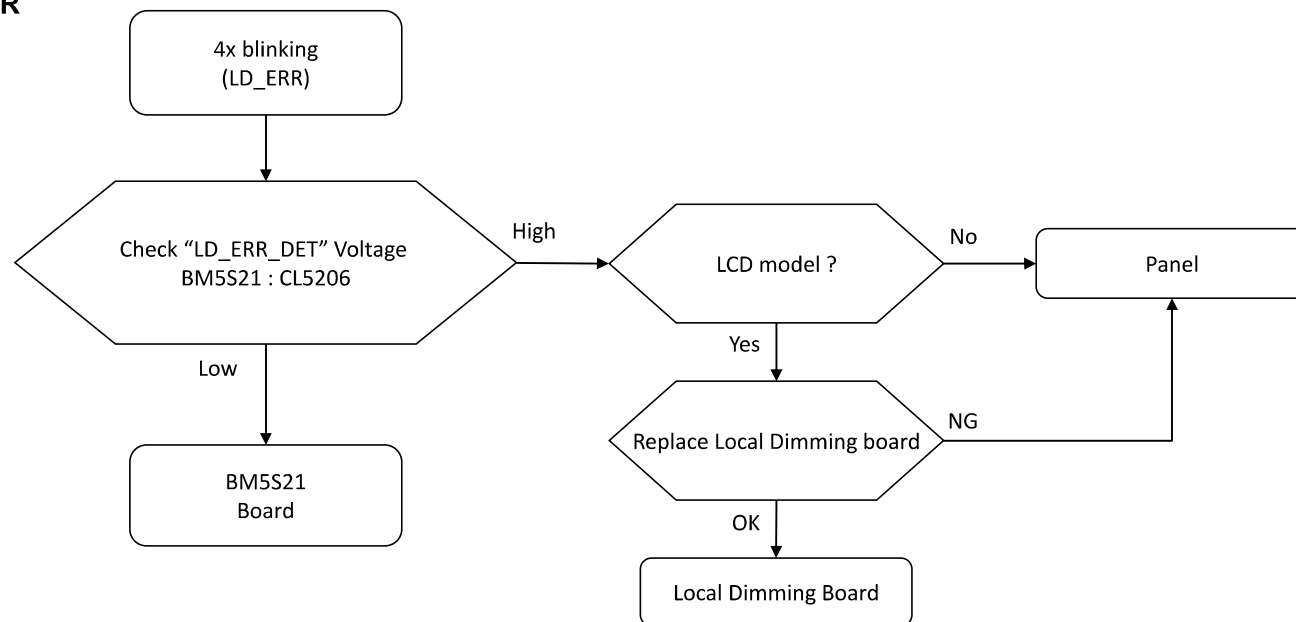
2.2 3x LED Blinking : AUD_ERR



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

TROUBLESHOOTING

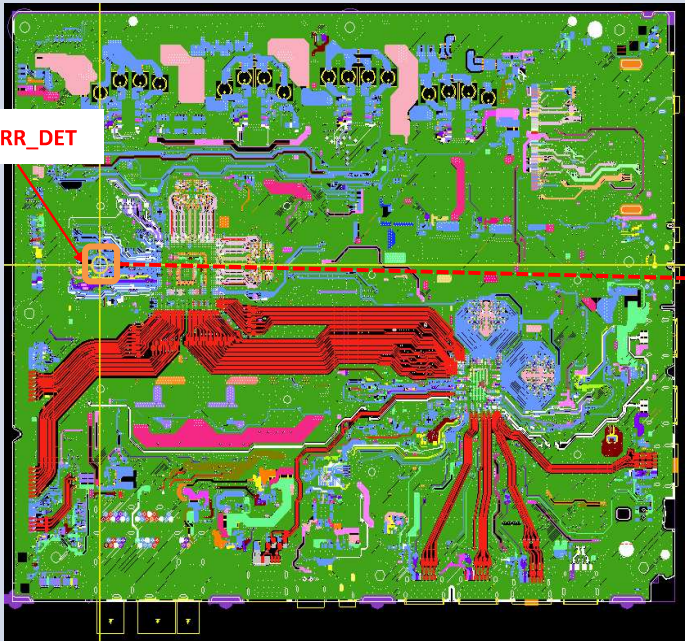
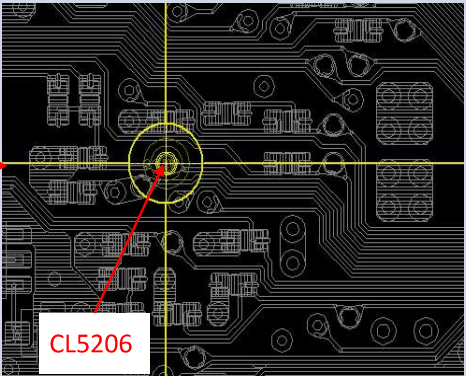
2.3 4x LED Blinking : LD ERR



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	4	LCD	LD IC initialize or I2C communication failure
		OLED	Panel power failure

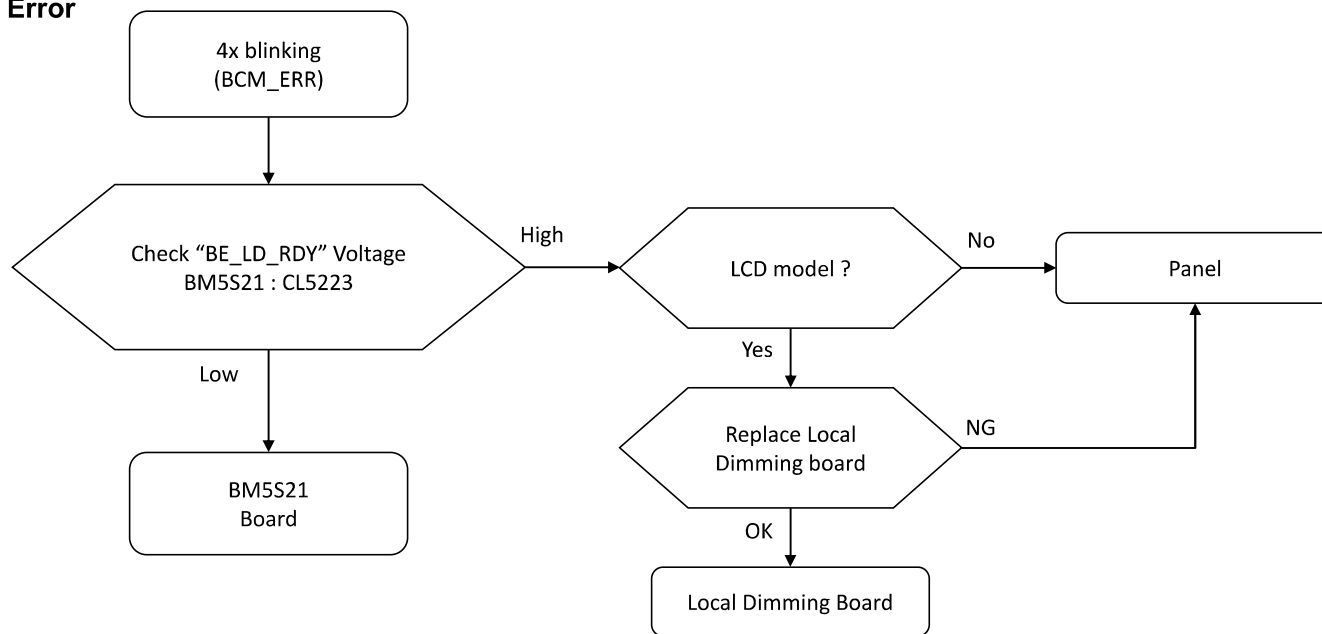
TROUBLESHOOTING

2.3 4x LED Blinking : LD Error

Name	Board PWB (A side)	Detail
BM5S21	 A photograph of the BM5S21 board PWB (A side). The board is green with various components and traces. A red dashed line points from a label 'LD_ERR_DET' to a specific component on the board. The label is in a white box with red text.	 A detailed view of the component CL5206. The component is a small, circular component with a yellow circle around it. A red dashed line points from the component to the label 'CL5206' in a white box with red text. The background is a black and white circuit board layout.

TROUBLESHOOTING

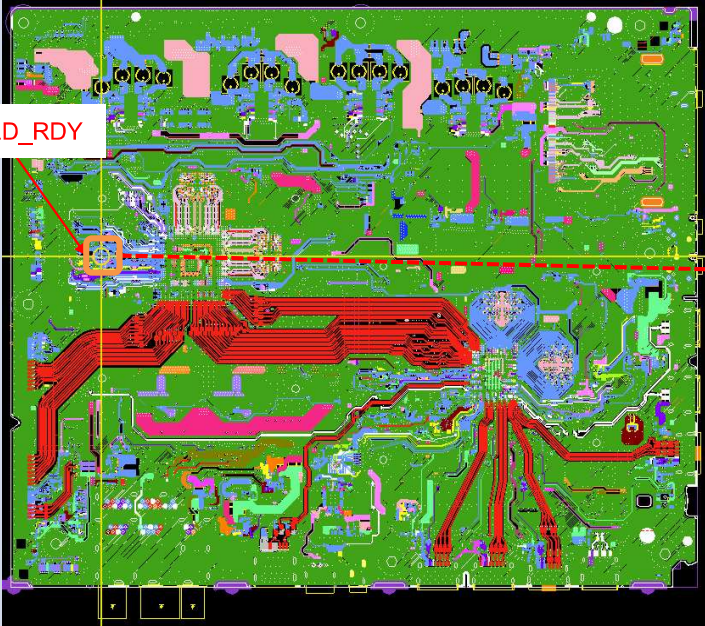
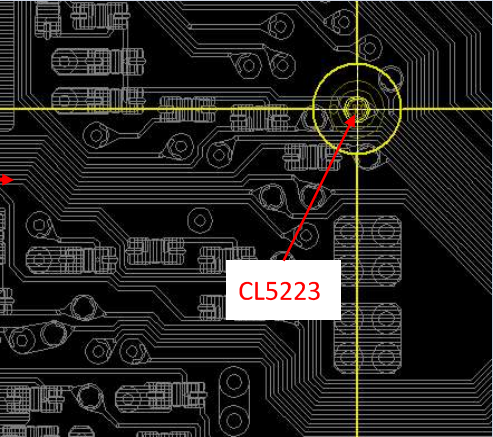
2.4 4x LED Blinking : BCM Error



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	4	LCD	LD IC initialize or I2C communication failure
		OLED	Panel power failure

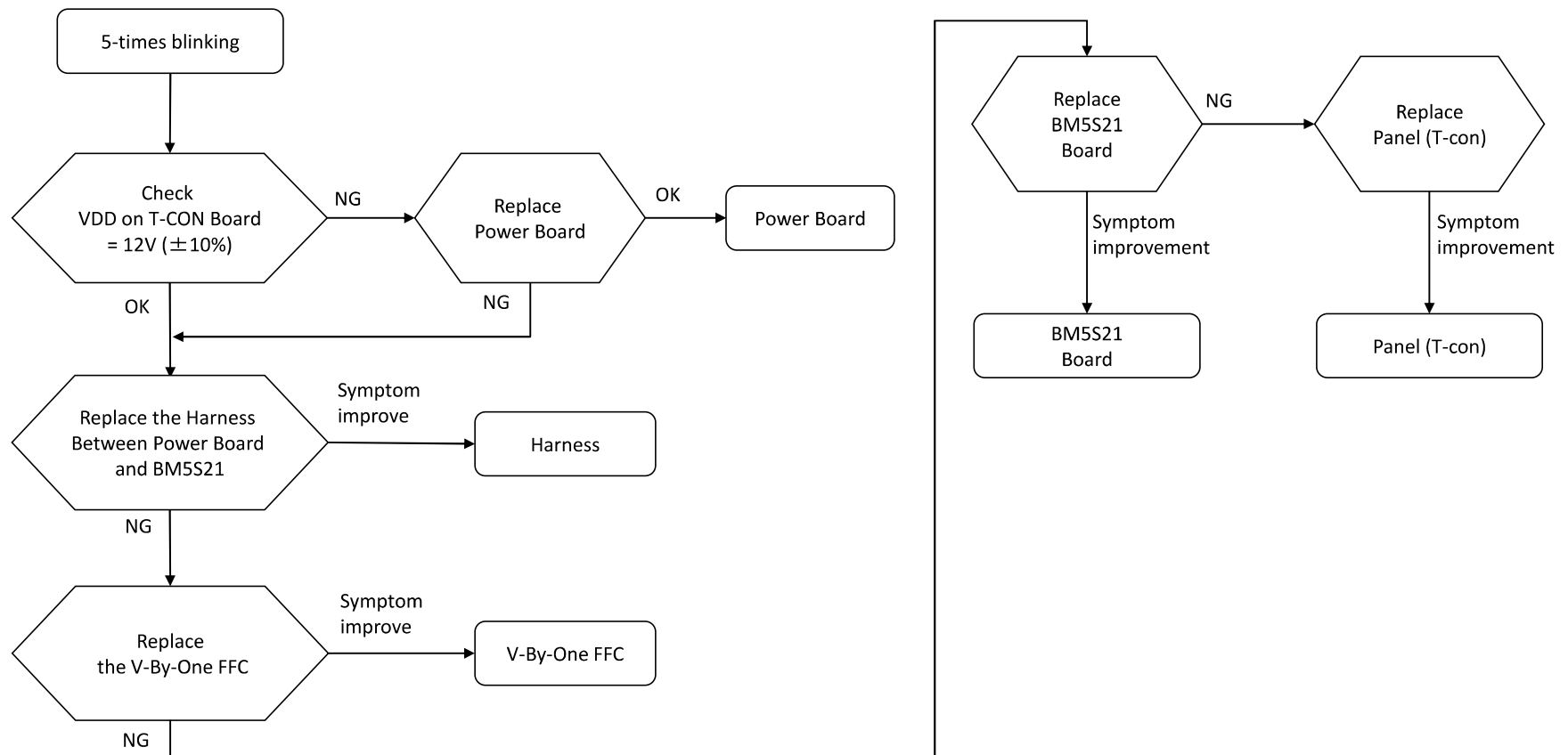
TROUBLESHOOTING

2.4 4x LED Blinking : BCM Error

Name	Board PWB (A side)	Detail
BM5S21	 <p>The image shows the A-side of the Board PWB (Printed Wiring Board) for the BM5S21. It is a green PCB with various components and traces. A red dashed line points from a label 'BE_LD_RDY' to a specific location on the board. A yellow crosshair is centered on this location. A red dashed line also points from this location to the detail image on the right.</p>	 <p>The detail image shows a close-up of the PCB traces and components. A yellow circle highlights a specific component, and a red dashed line points to it from the label 'CL5223'.</p>

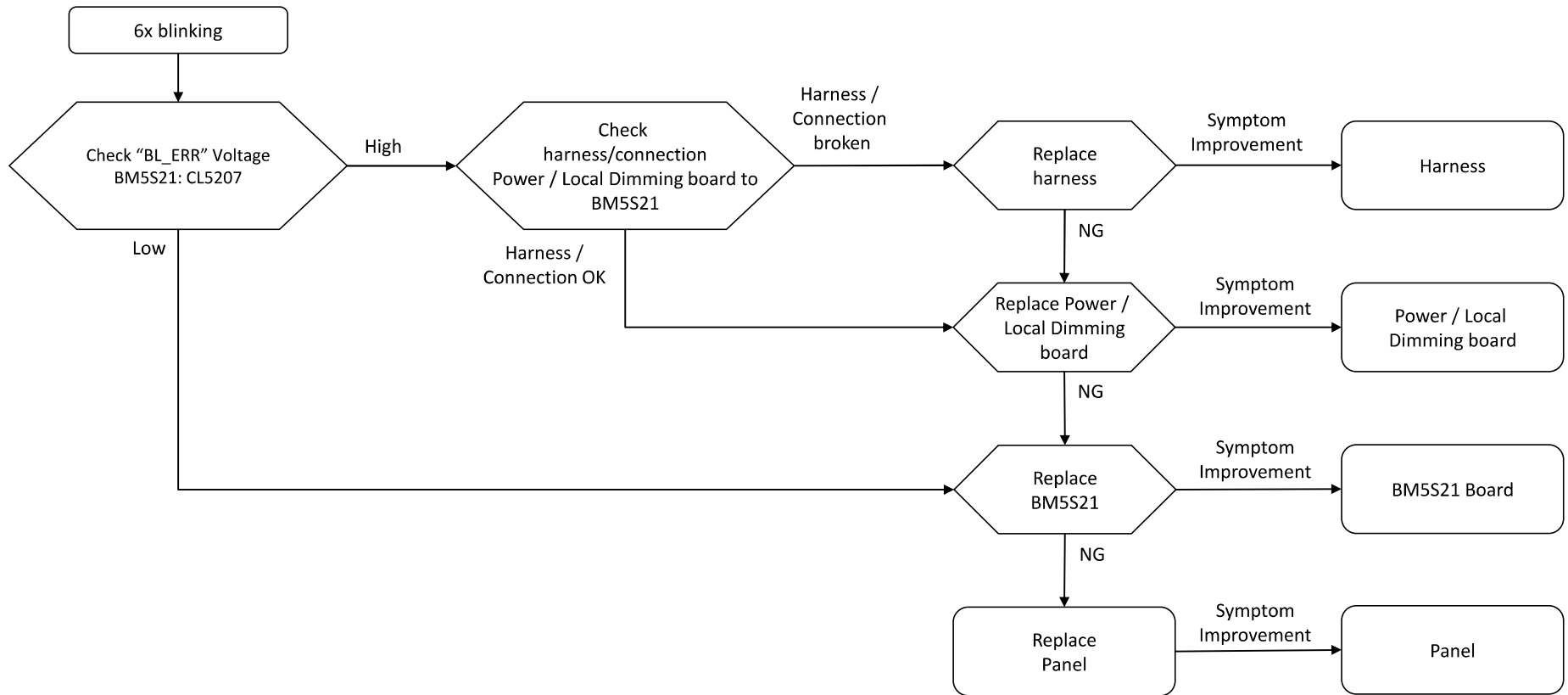
TROUBLESHOOTING

2.5 5x LED Blinking : P_ID_ERR



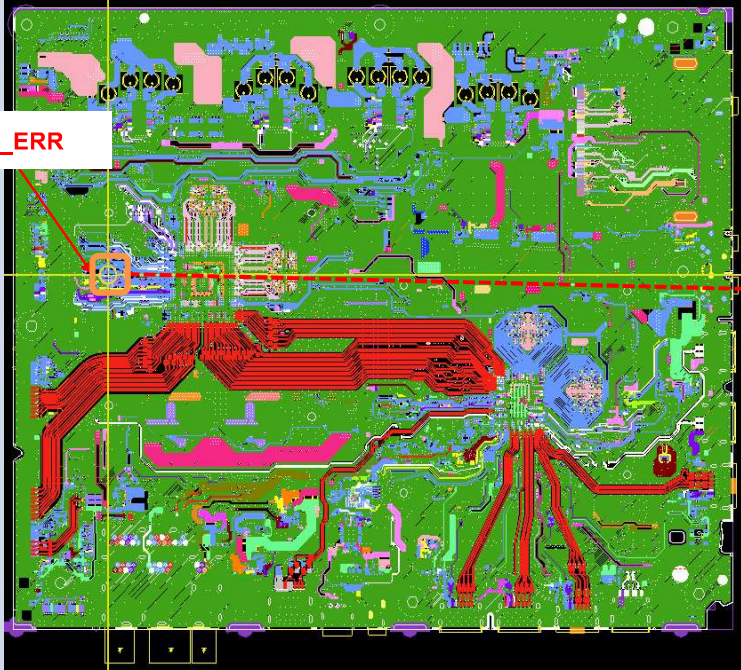
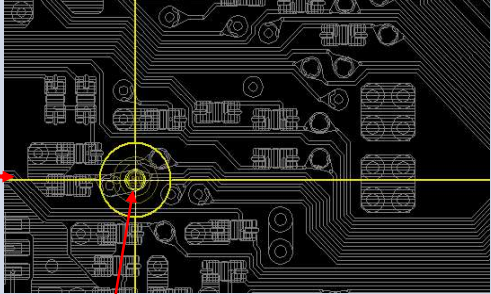
TROUBLESHOOTING

2.6 6x LED Blinking : Backlight Error



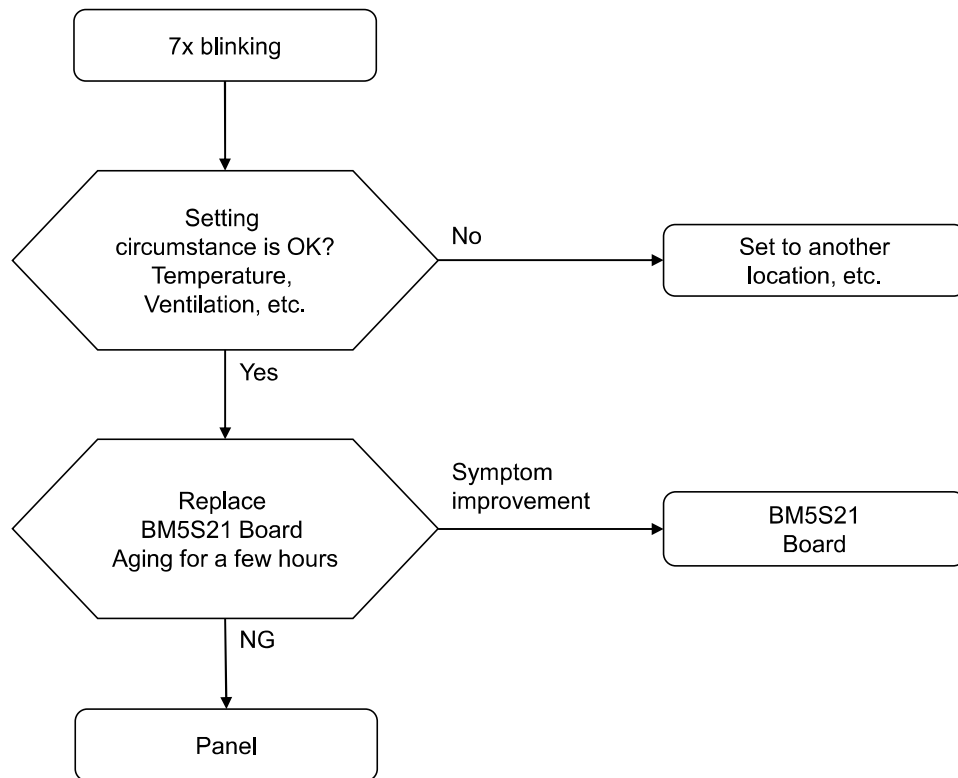
TROUBLESHOOTING

2.6 6x LED Blinking : Backlight Error

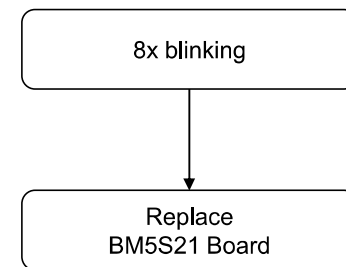
Name	Board PWB (A side)	Detail
BM5S21	 <p>The image shows the main PCB layout for the BM5S21 board. A red box highlights a specific area in the upper left quadrant, labeled "BL_ERR". A red dashed line extends from this box to the right, pointing to a magnified detail of the PCB.</p>	 <p>The magnified detail shows a close-up of the PCB traces and components. A yellow circle highlights a specific component, labeled "CL5207". A red arrow points from this label to the component.</p>

TROUBLESHOOTING

2.7 7x LED Blinking : Temperature Error

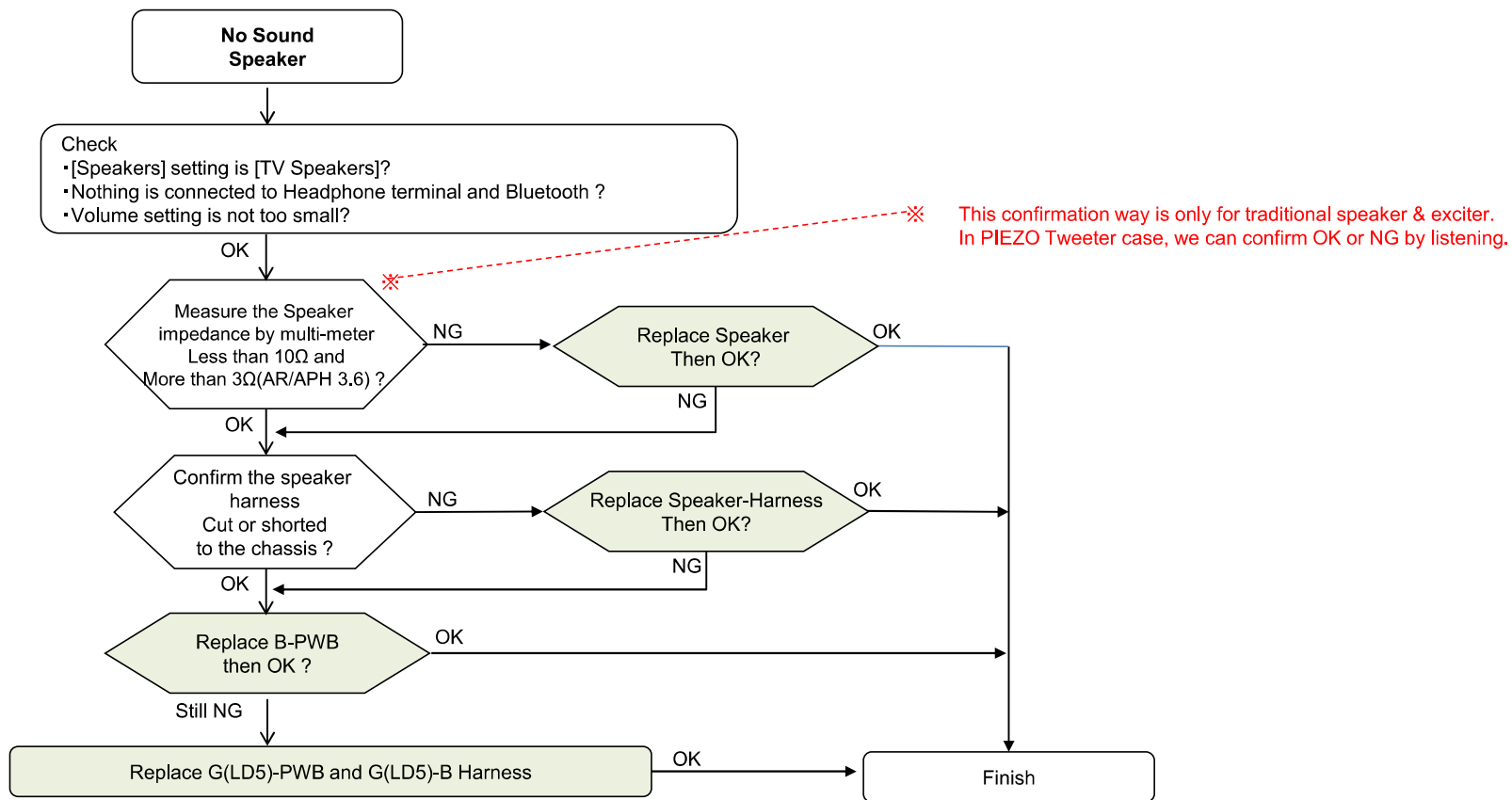


2.8 8x LED Blinking : 4KBE Error



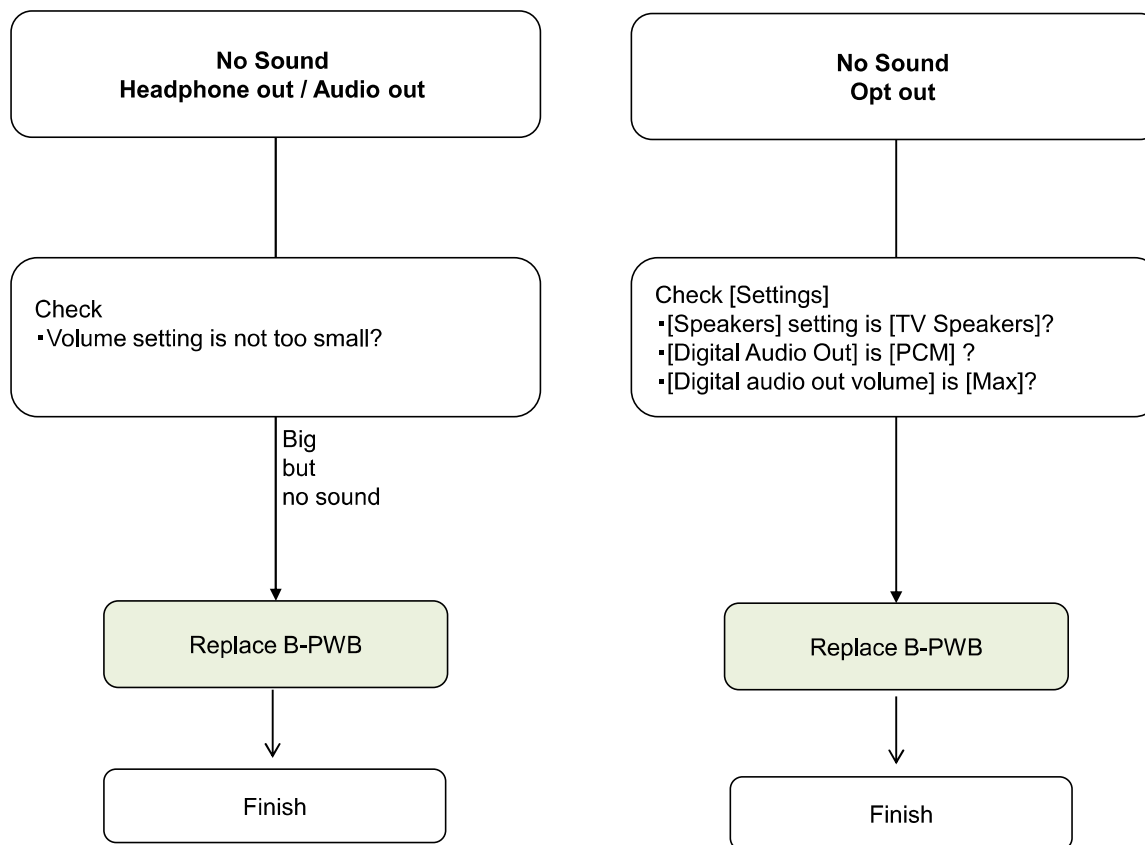
TROUBLESHOOTING

3.1 No Sound - Speaker



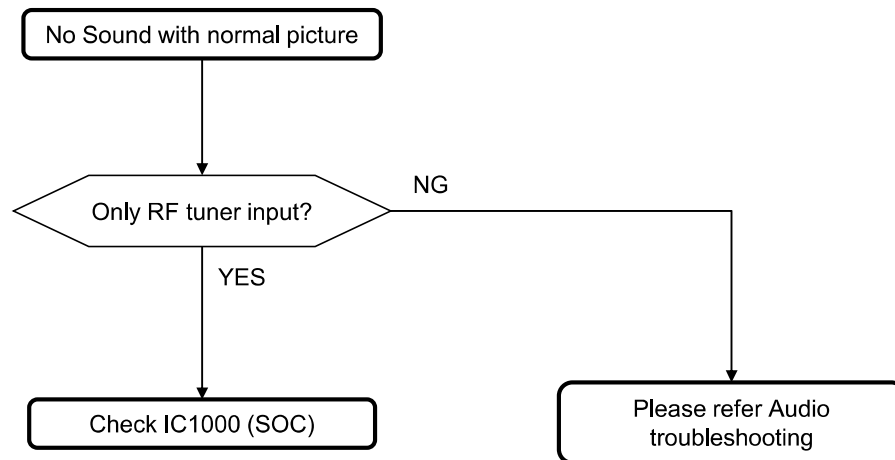
TROUBLESHOOTING

3.2 No Sound – Headphone Out / Audio Out / Opt Out



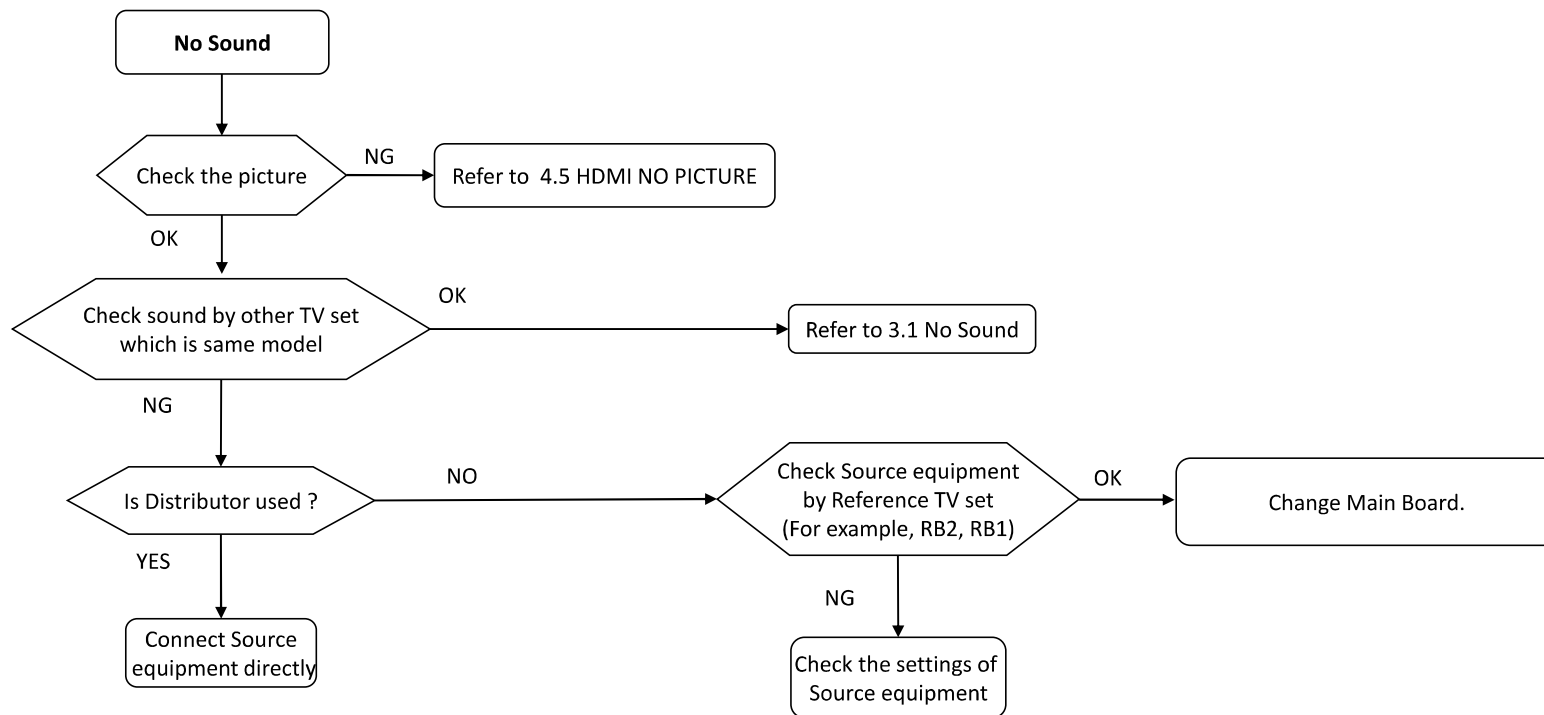
TROUBLESHOOTING

3.7 No Sound – Tuner



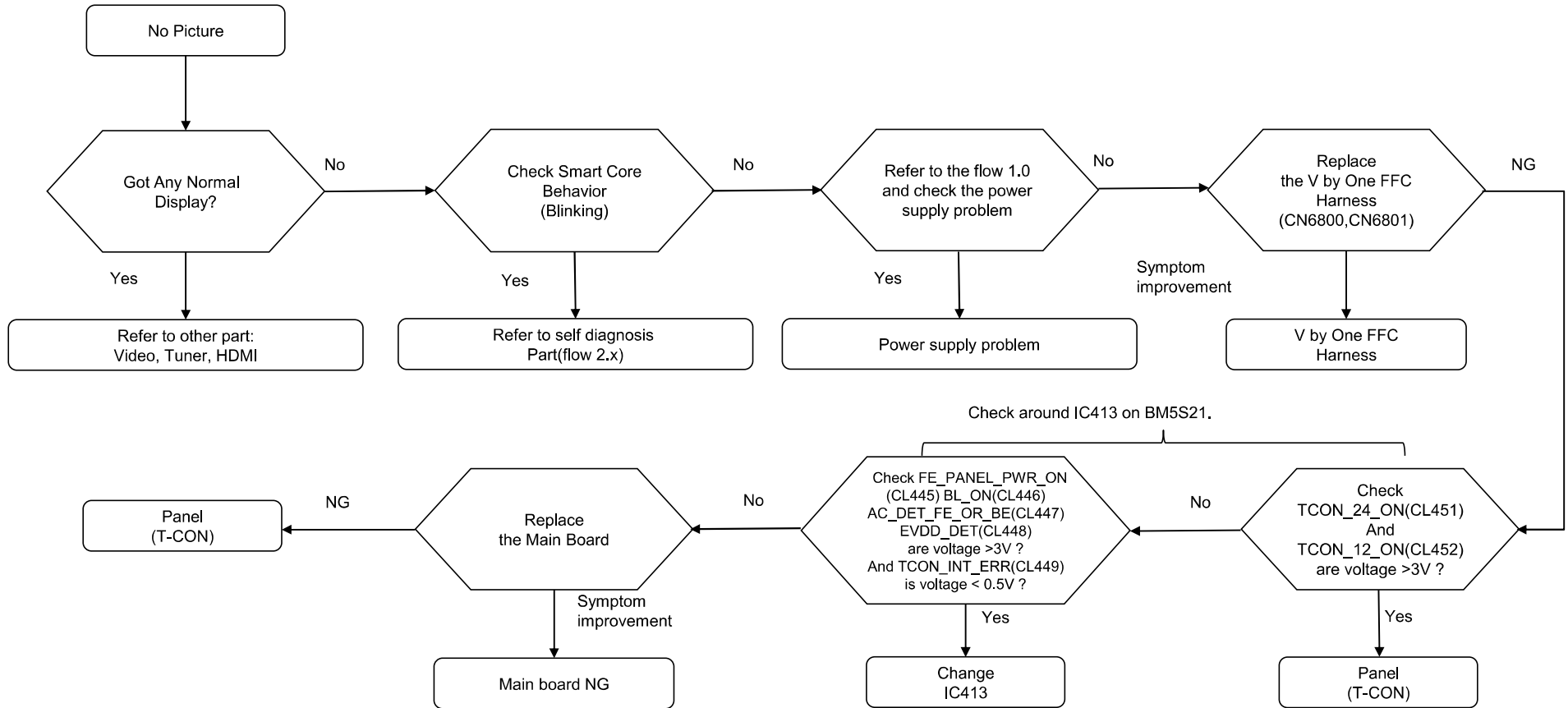
TROUBLESHOOTING

3.8 No Sound – HDMI 1/2/3/4



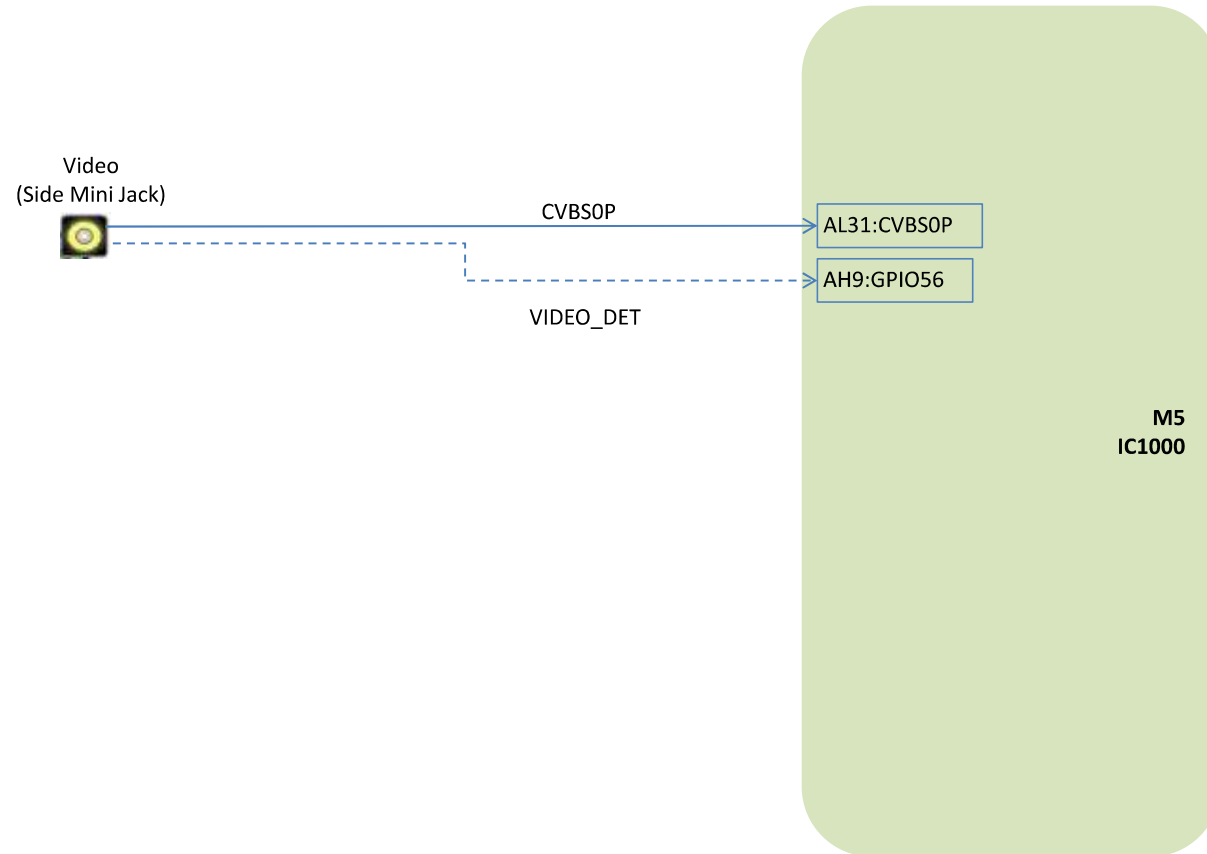
TROUBLESHOOTING

4.0 No Picture



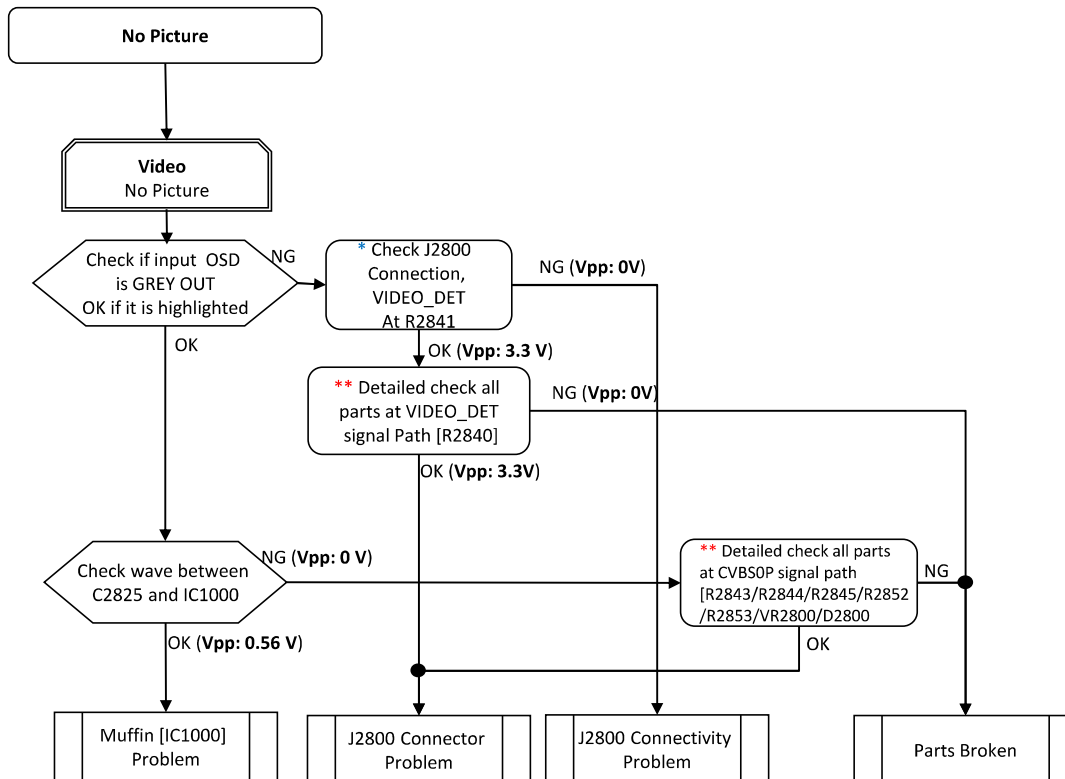
TROUBLESHOOTING

4.1 Video Analog Signal Path



TROUBLESHOOTING

4.2 No Picture



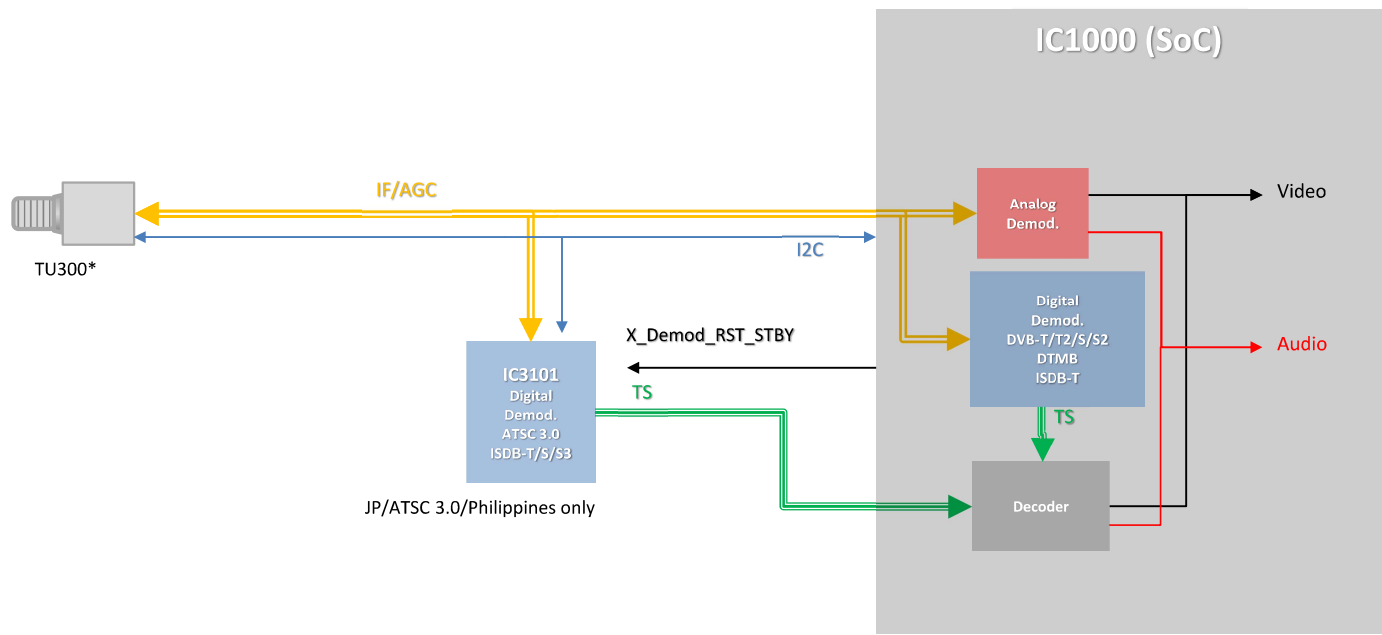
* → OK Condition : No solder splash can be seen
→ NG Condition : Solder splash can be seen

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

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

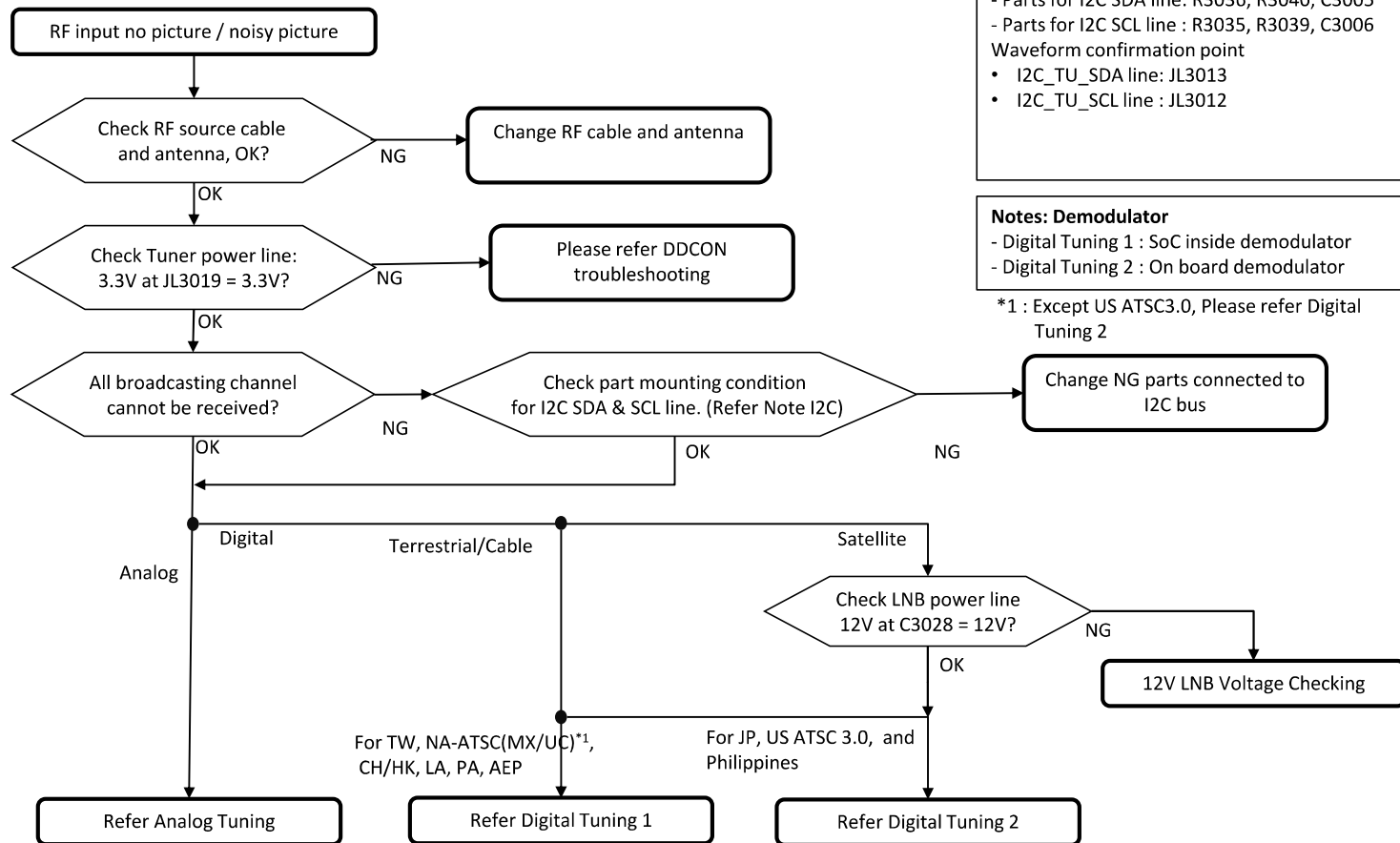
TROUBLESHOOTING

4.4 No Picture - Tuner



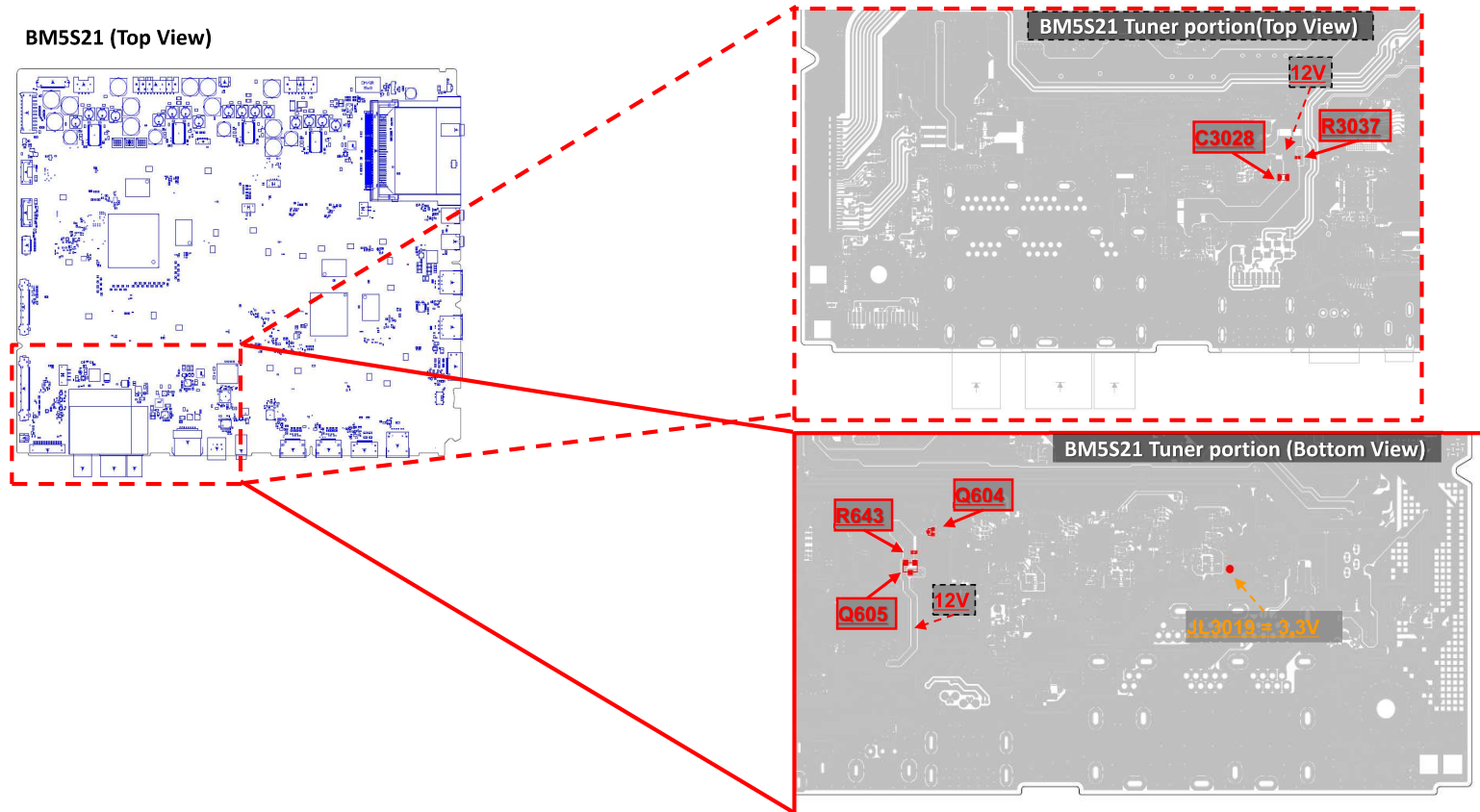
TROUBLESHOOTING

4.4 No Picture - Tuner



TROUBLESHOOTING

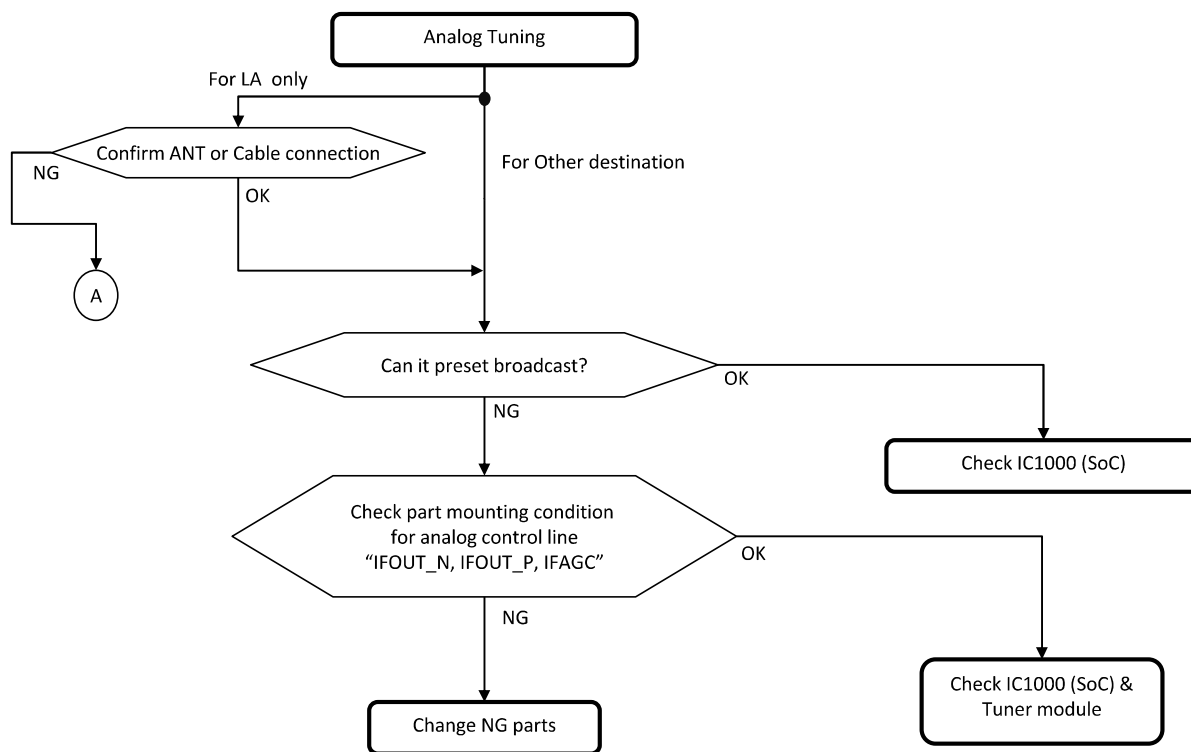
4.4 No Picture - Tuner



TROUBLESHOOTING

4.4 No Picture - Tuner

FOR ANALOG TUNING: @ All destination



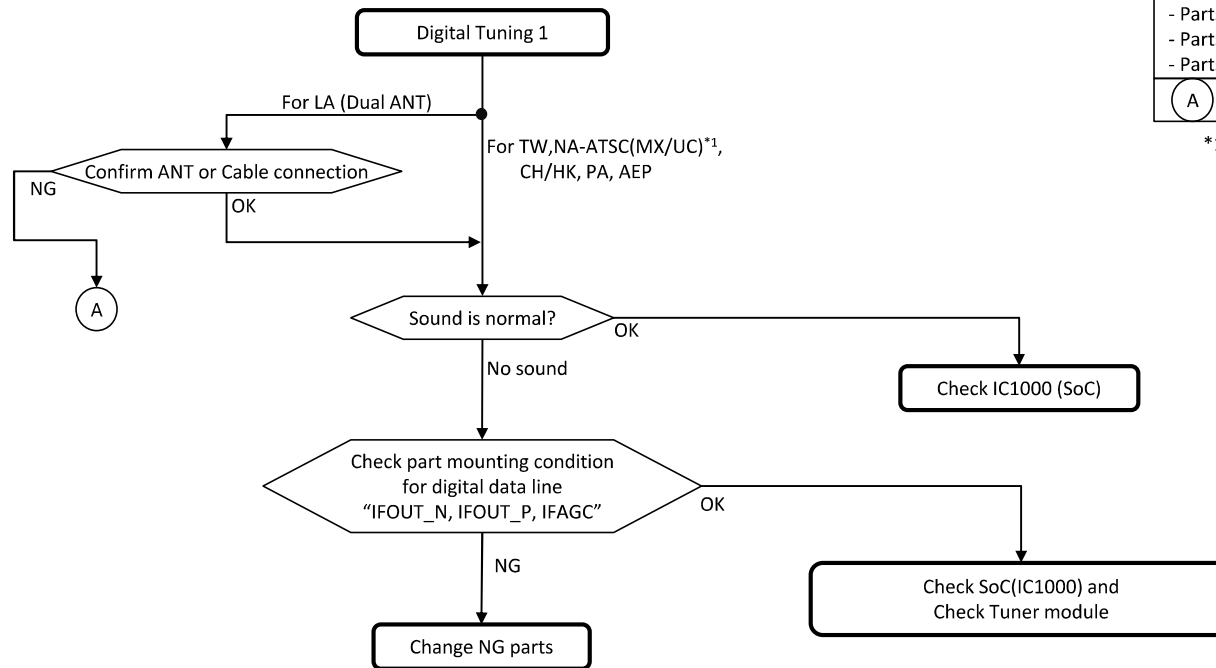
Notes:
- Parts for IFOUT_N line : C3011
- Parts for IFOUT_P line : C3010
- Parts for IFAGC line : R3003 ,R3024, C3023

(A) : Insert correct signal in correct ANT terminal.

TROUBLESHOOTING

4.4 No Picture - Tuner

FOR DIGITAL TUNING 1: @ For TW, NA-ATSC(MX/UC)*1, CH/HK, LA, PA



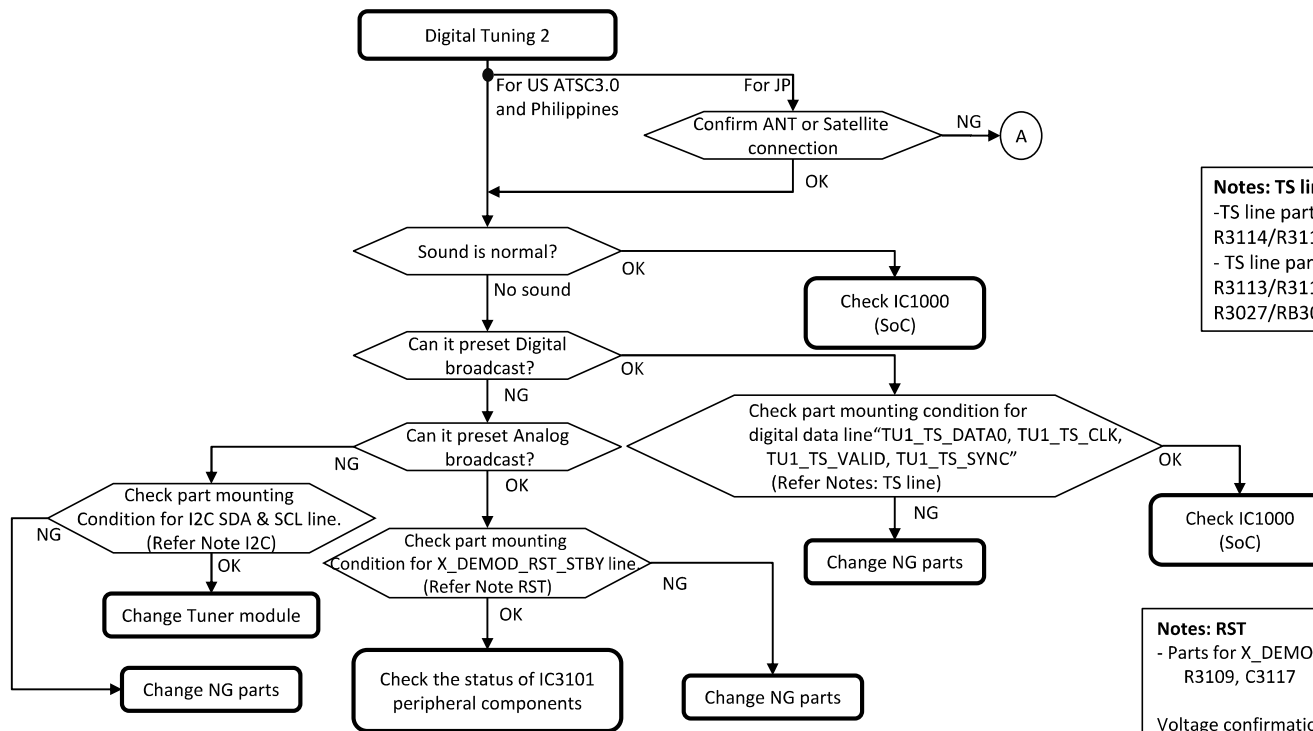
Notes:
 - Parts for IFOUT_N line : C3011
 - Parts for IFOUT_P line : C3010
 - Parts for IFAGC line : R3003 ,R3024, C3023
 (A) : Insert correct signal in correct ANT terminal.

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

TROUBLESHOOTING

4.4 No Picture - Tuner

FOR DIGITAL TUNING 2: @ US ATSC3.0 and Philippines



Notes: I2C
 - Parts for I2C SDA line: R3036, R3040, C3005
 - Parts for I2C SCL line : R3035, R3039, 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
 R3114/R3116/R3117/R3120/R3121/R3122/R3123/RB301
 - TS line parts for JP :
 R3113/R3114/R3116/R3117/R3120/R3121/R3122/R3123/
 R3027/RB3001

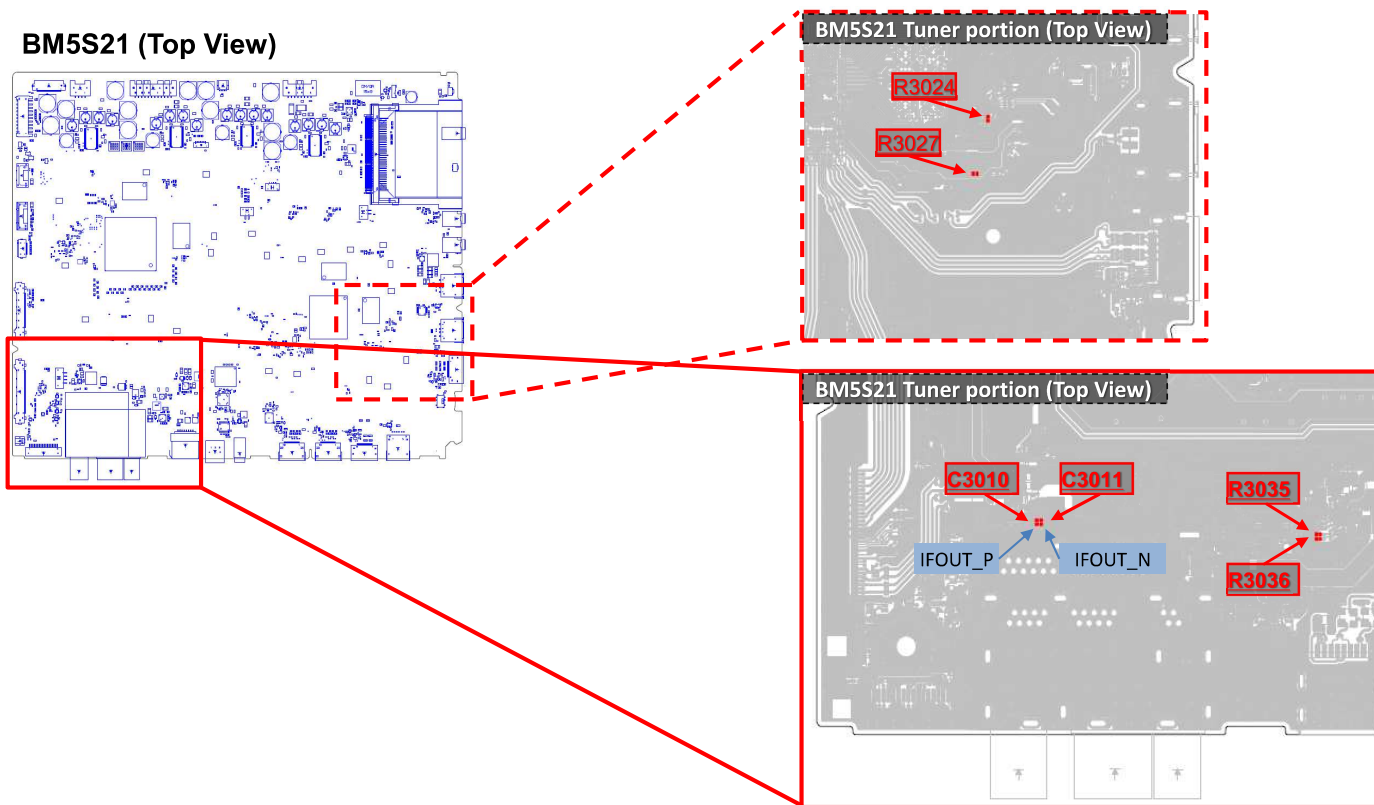
(A) : Insert correct signal in correct ANT terminal.

Notes: RST
 - Parts for X_DEMOD_RST line:
 R3109, C3117

 Voltage confirmation point
 C3117 = 3.3V

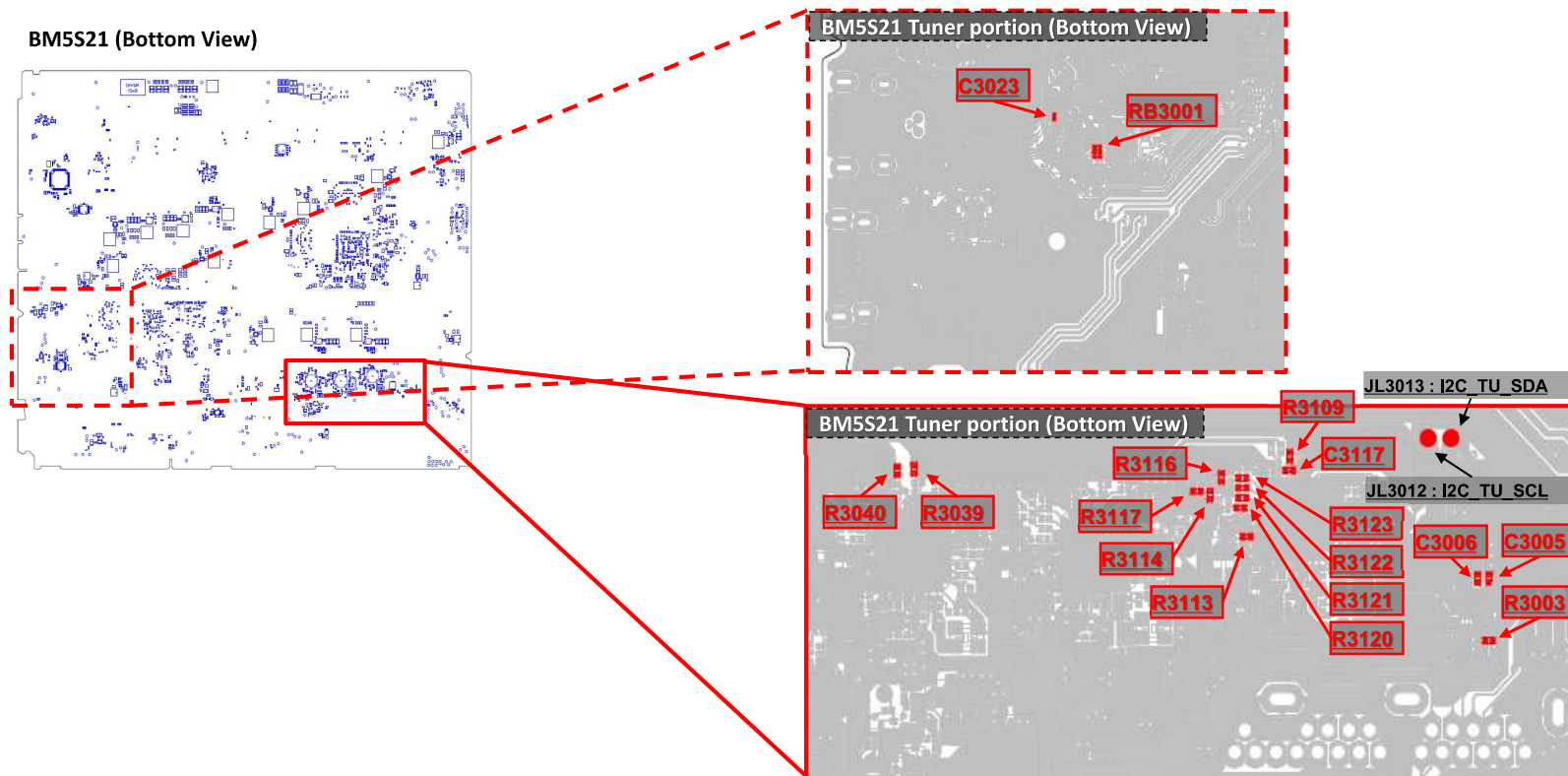
TROUBLESHOOTING

4.4 No Picture - Tuner



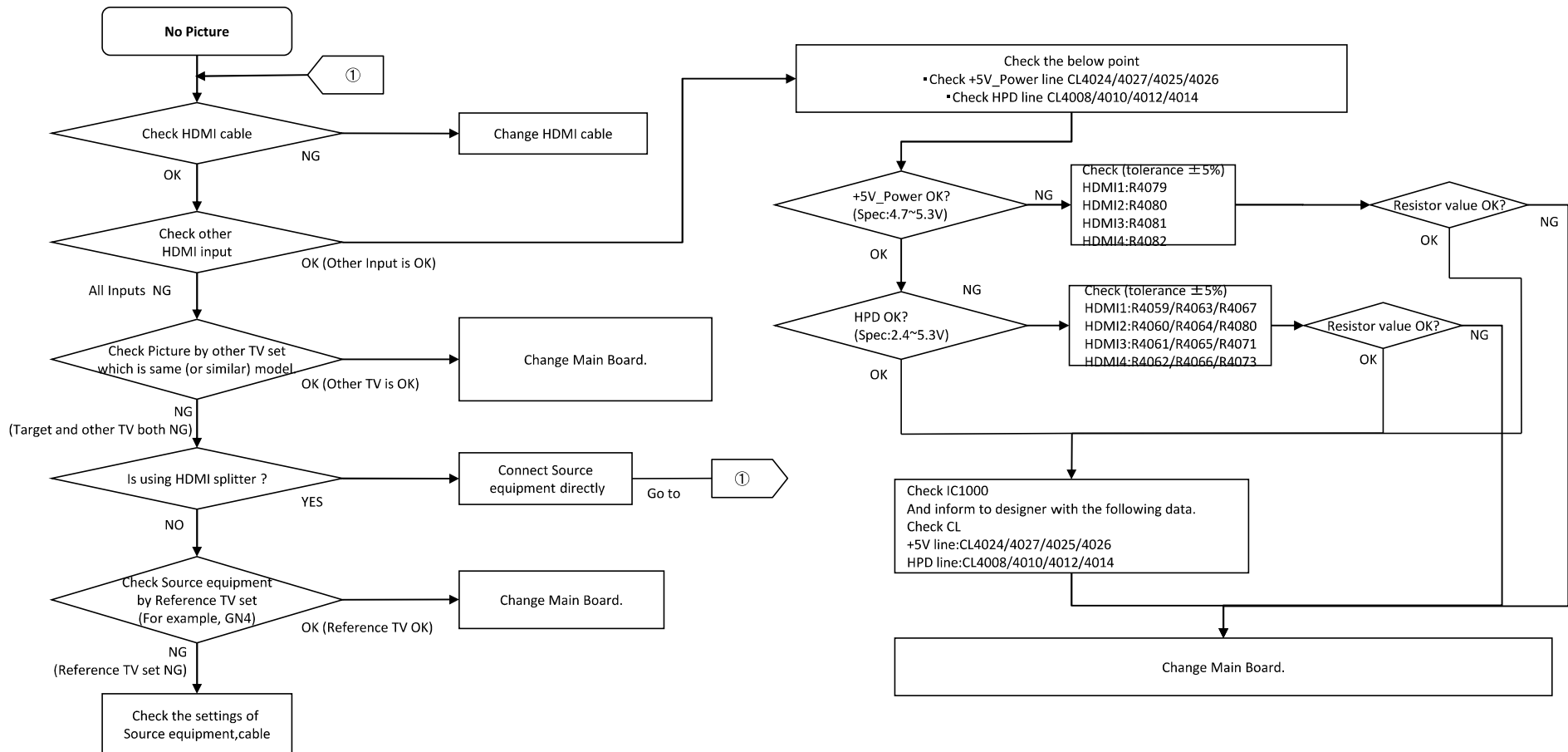
TROUBLESHOOTING

4.4 No Picture - Tuner



TROUBLESHOOTING

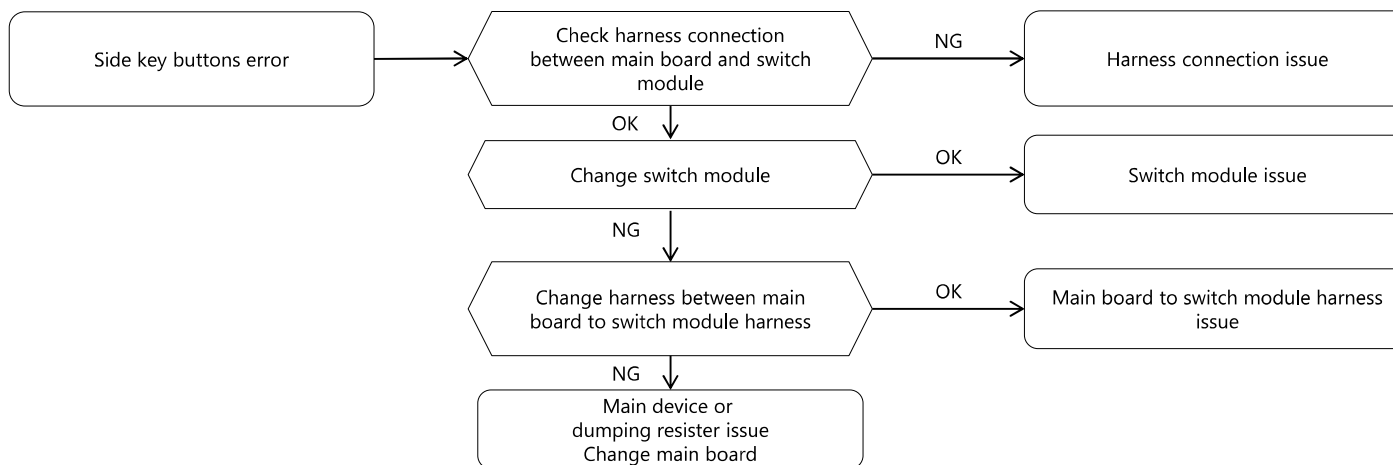
4.5 No Picture – HDMI 1/2/3/4



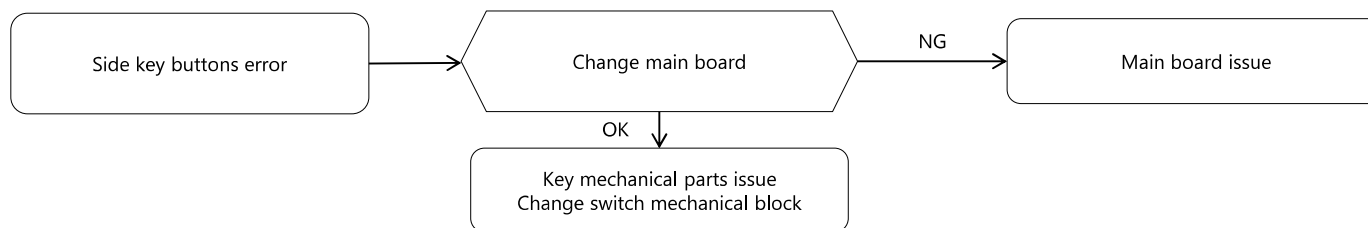
TROUBLESHOOTING

5.0 Key Switch Buttons Errors

1. Switch module type

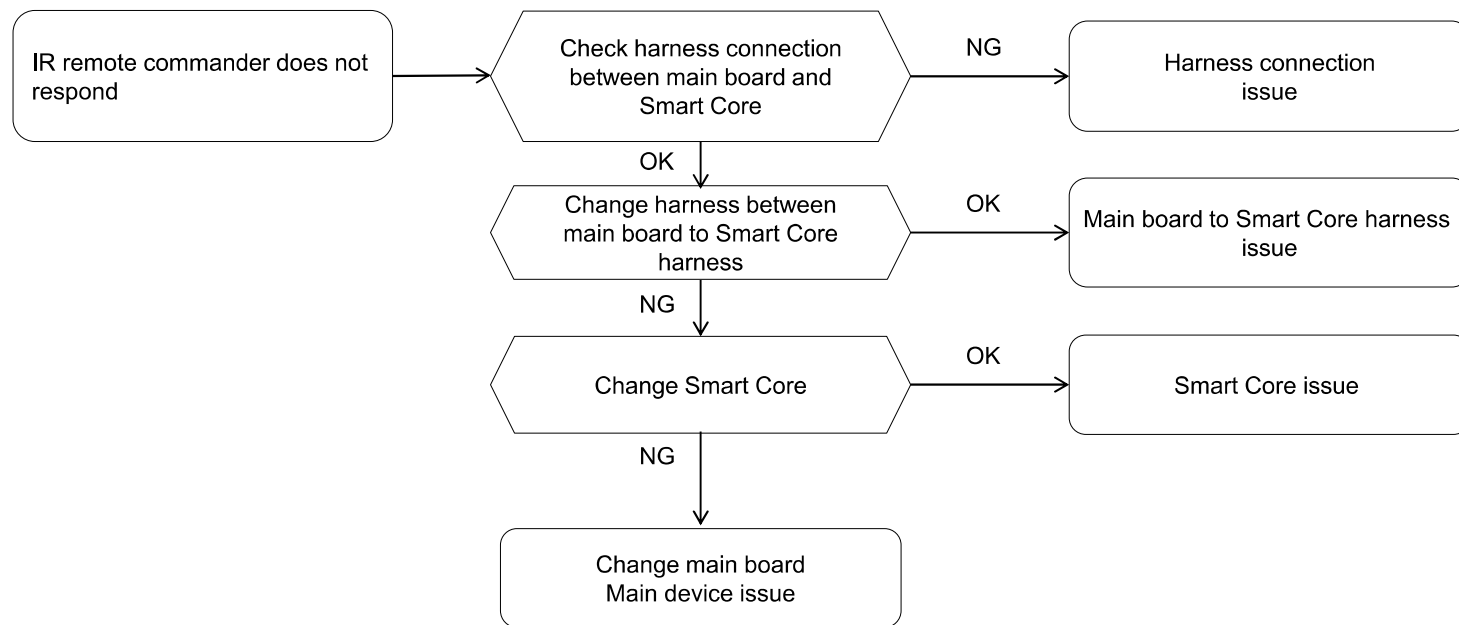


2. On board Switch type



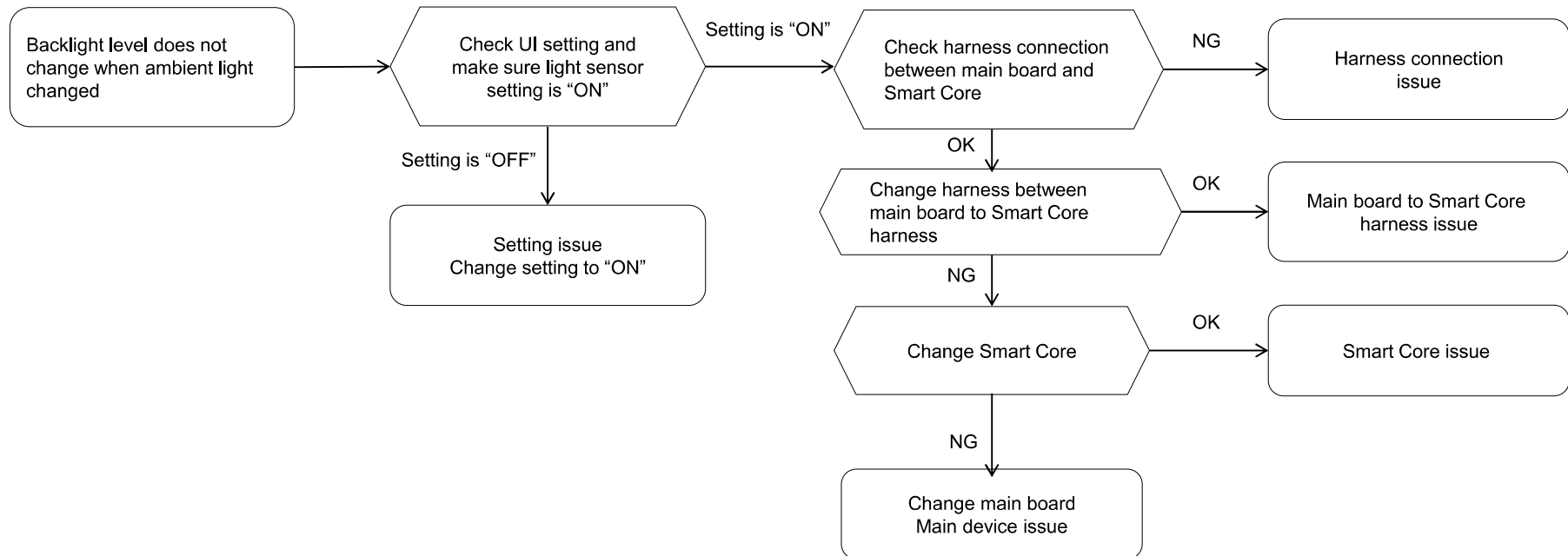
TROUBLESHOOTING

5.1 IR Remote Commander



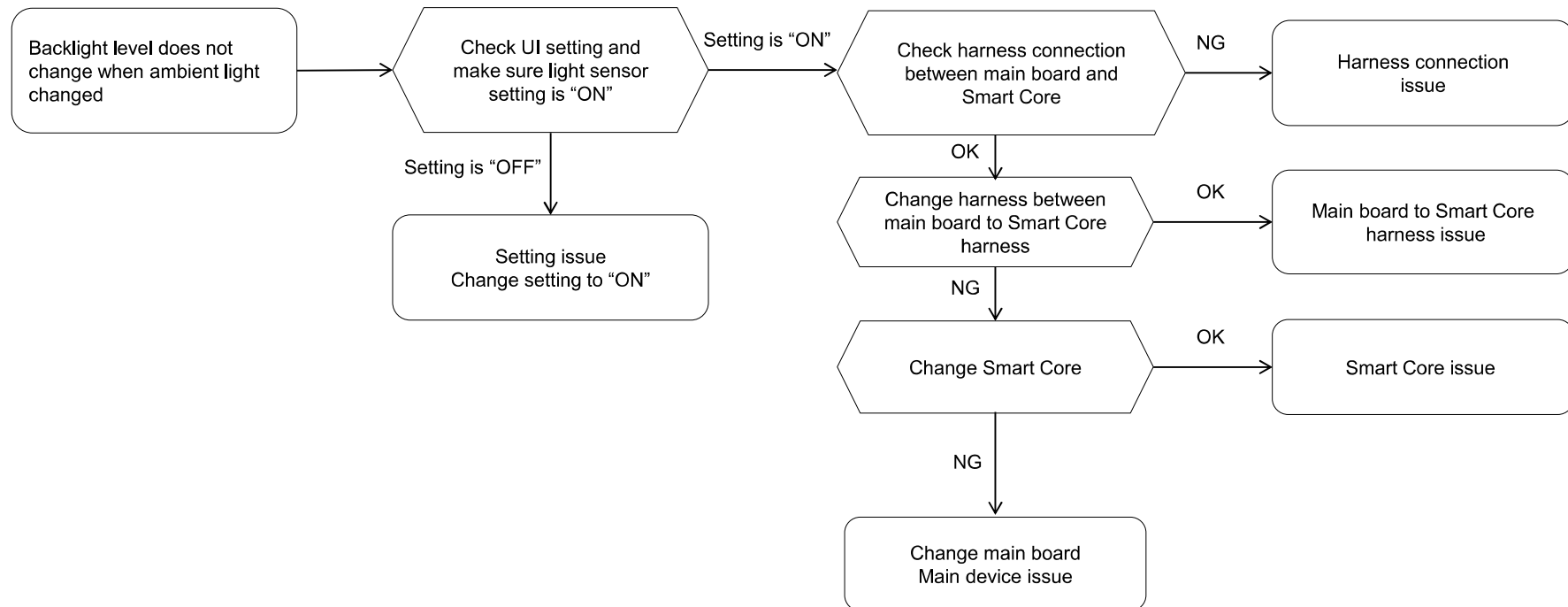
TROUBLESHOOTING

5.2 Light Sensor Errors



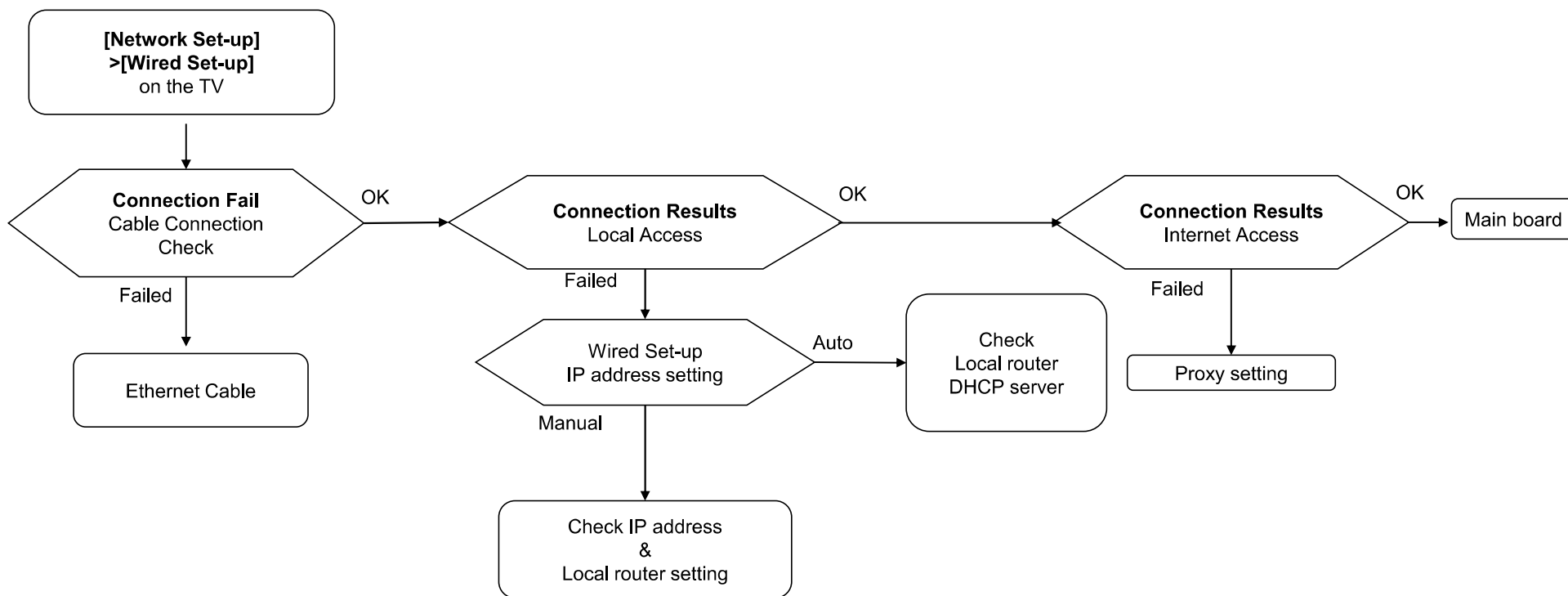
TROUBLESHOOTING

5.3 CAS ID Unknown



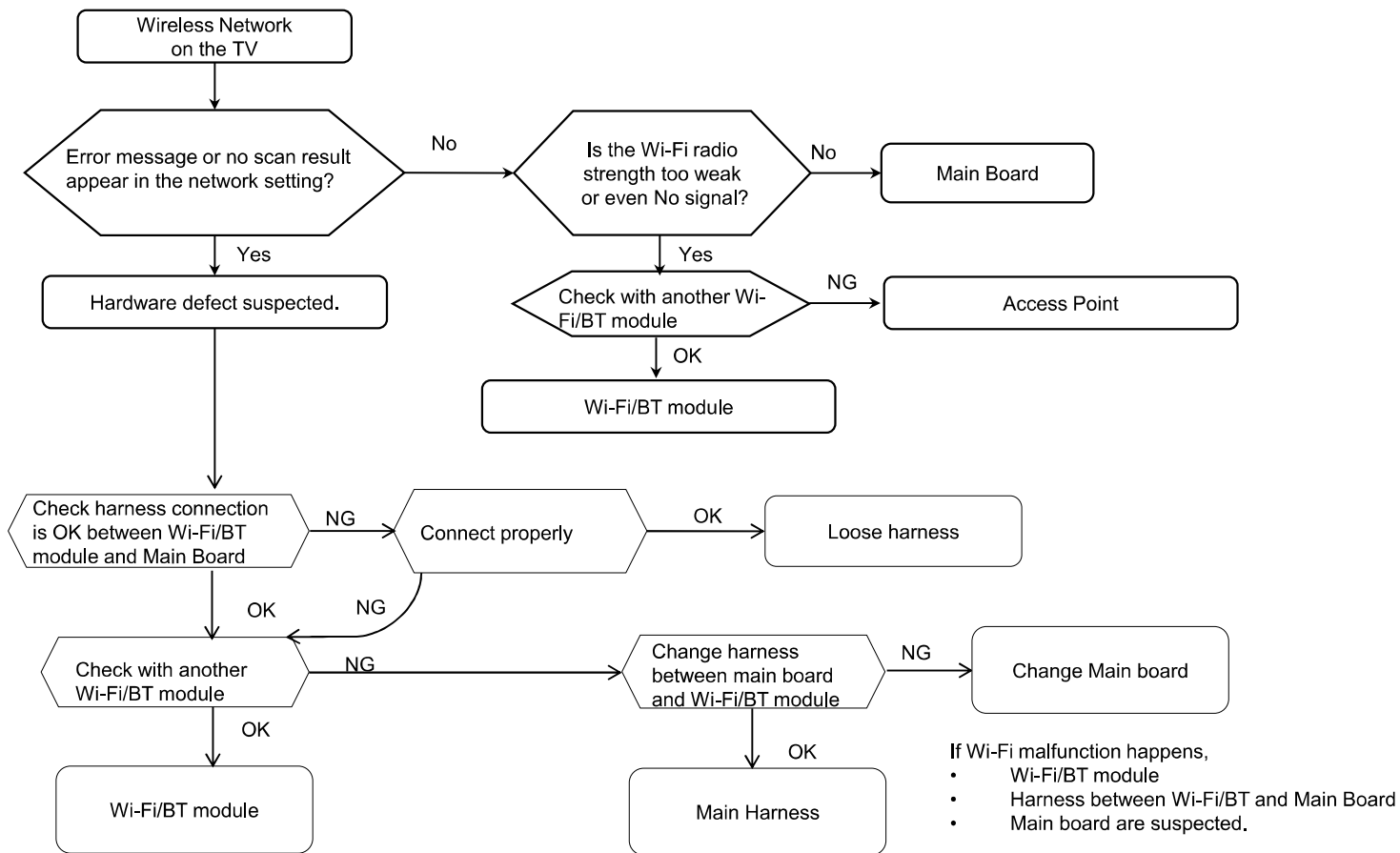
TROUBLESHOOTING

6.0 Network Malfunction : Ethernet Wired



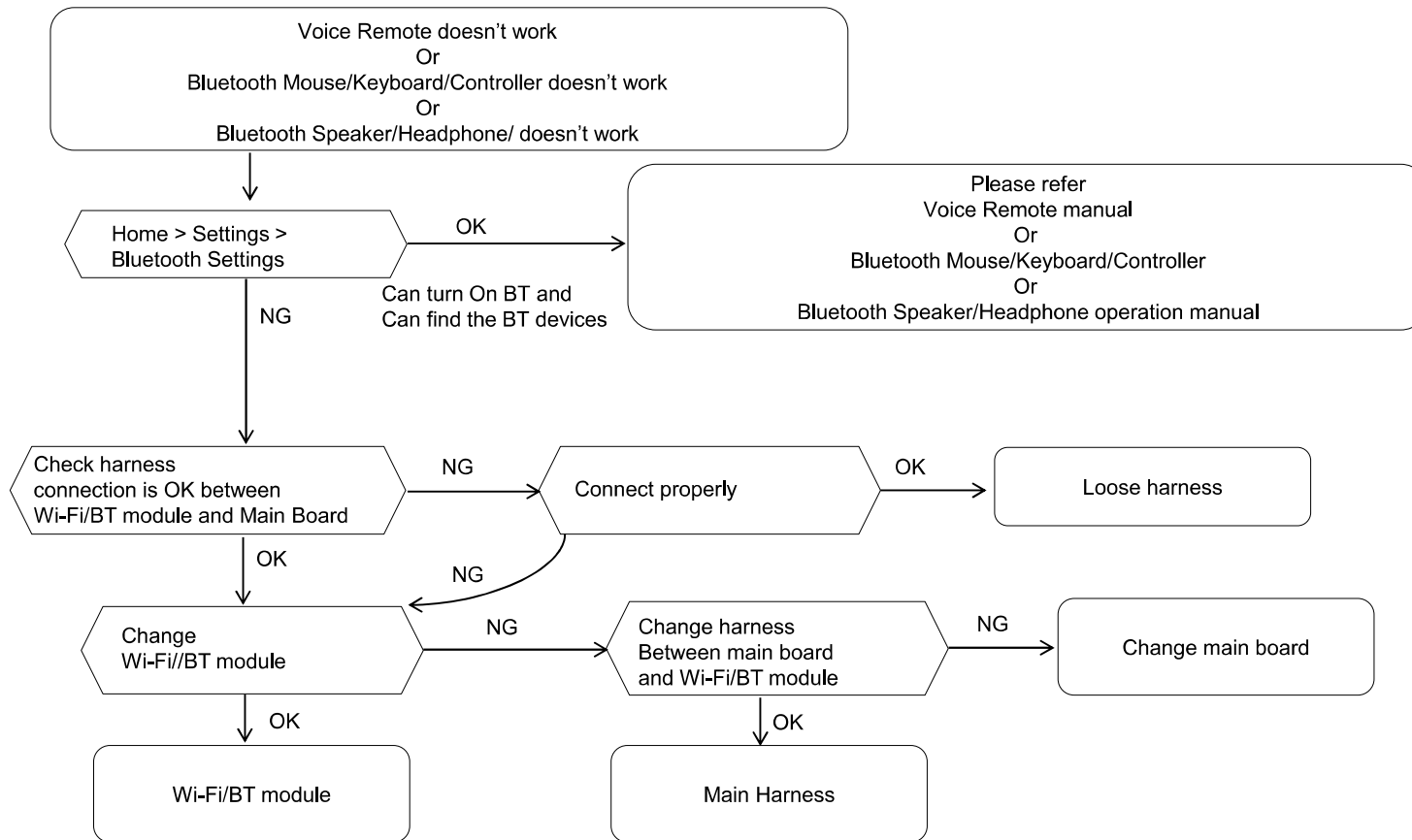
TROUBLESHOOTING

6.1 Wireless Network Malfunction



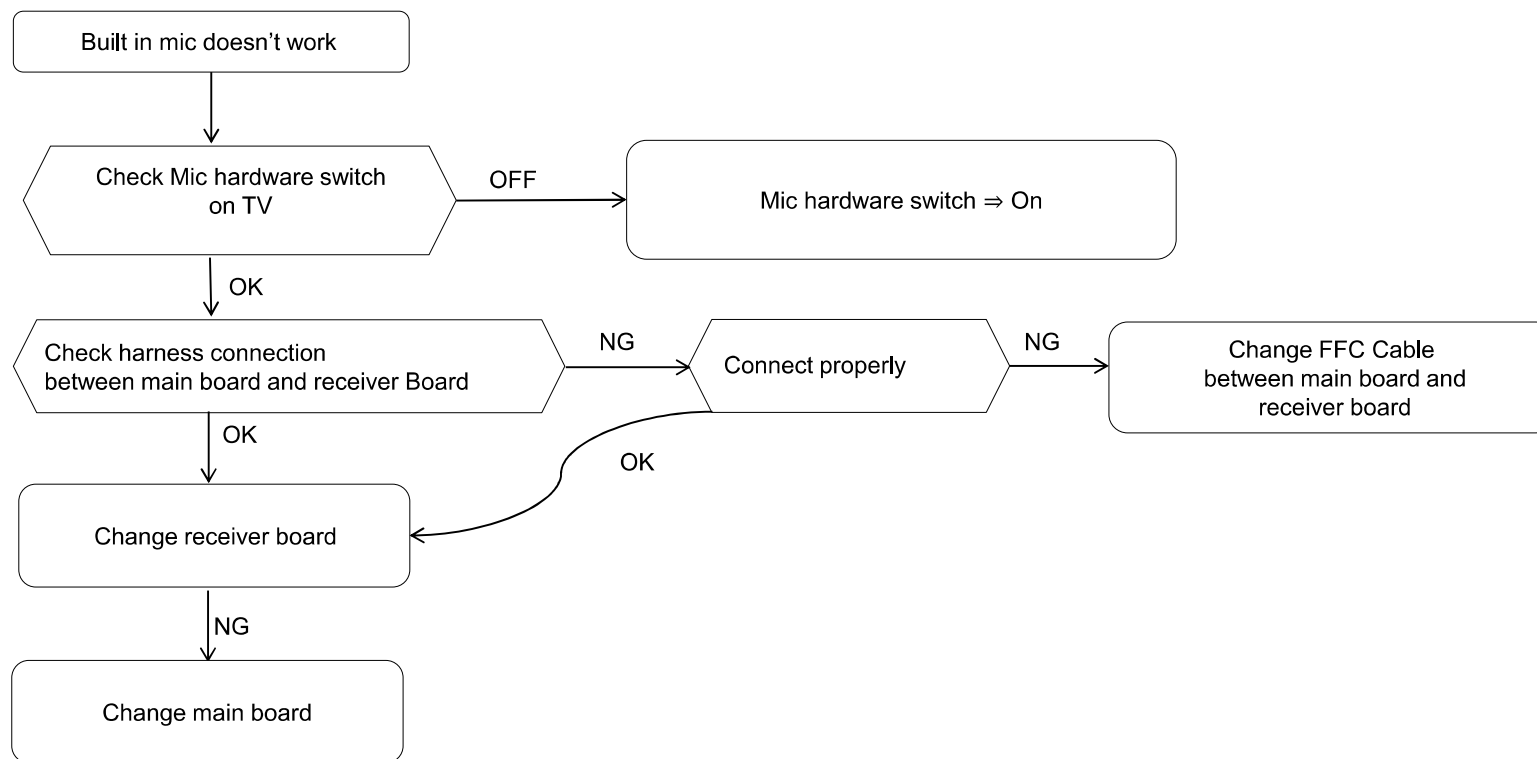
TROUBLESHOOTING

6.2 Bluetooth Malfunction



TROUBLESHOOTING

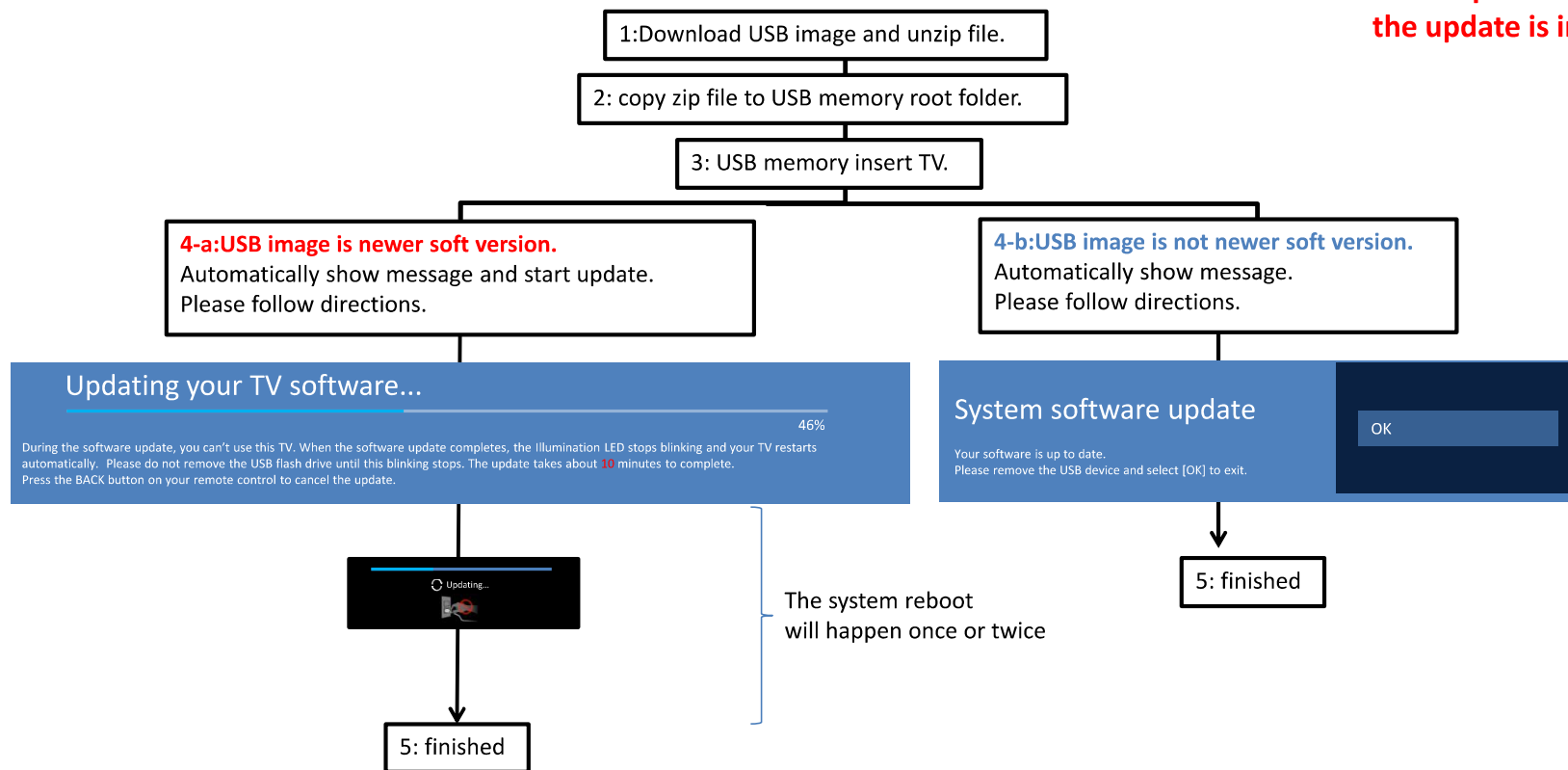
6.3 Built in Mic Malfunction



SOFTWARE UPDATE & RESET

How to update via USB.


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



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

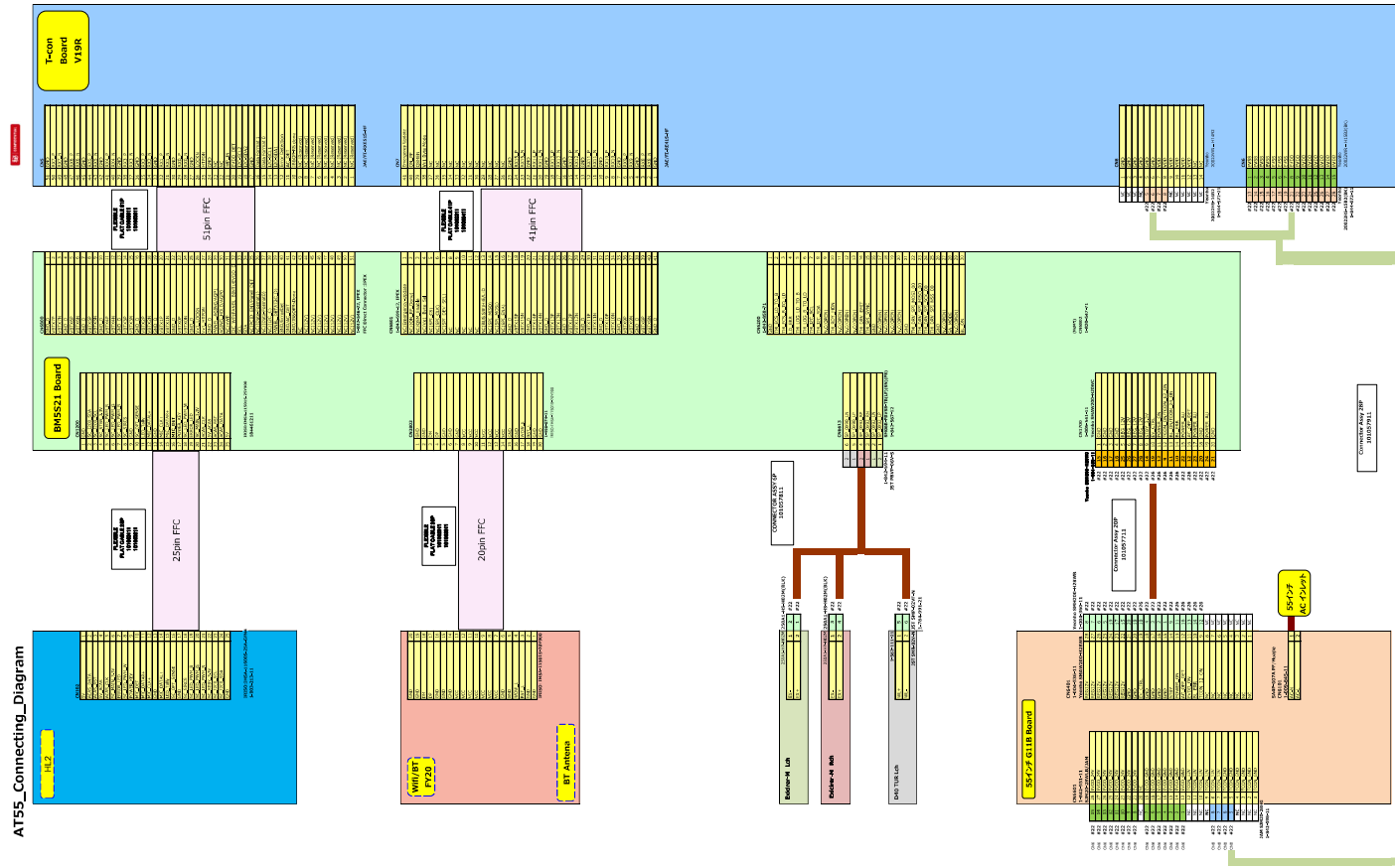
SOFTWARE UPDATE & RESET

Force FDR by Control Buttons

	1 Key
Key type	 Center Key
Procedure	<ol style="list-style-type: none">1) Press and hold <u>Center Key</u>.2) AC ON.3) Hold the button down for several seconds until the system starts FDR.

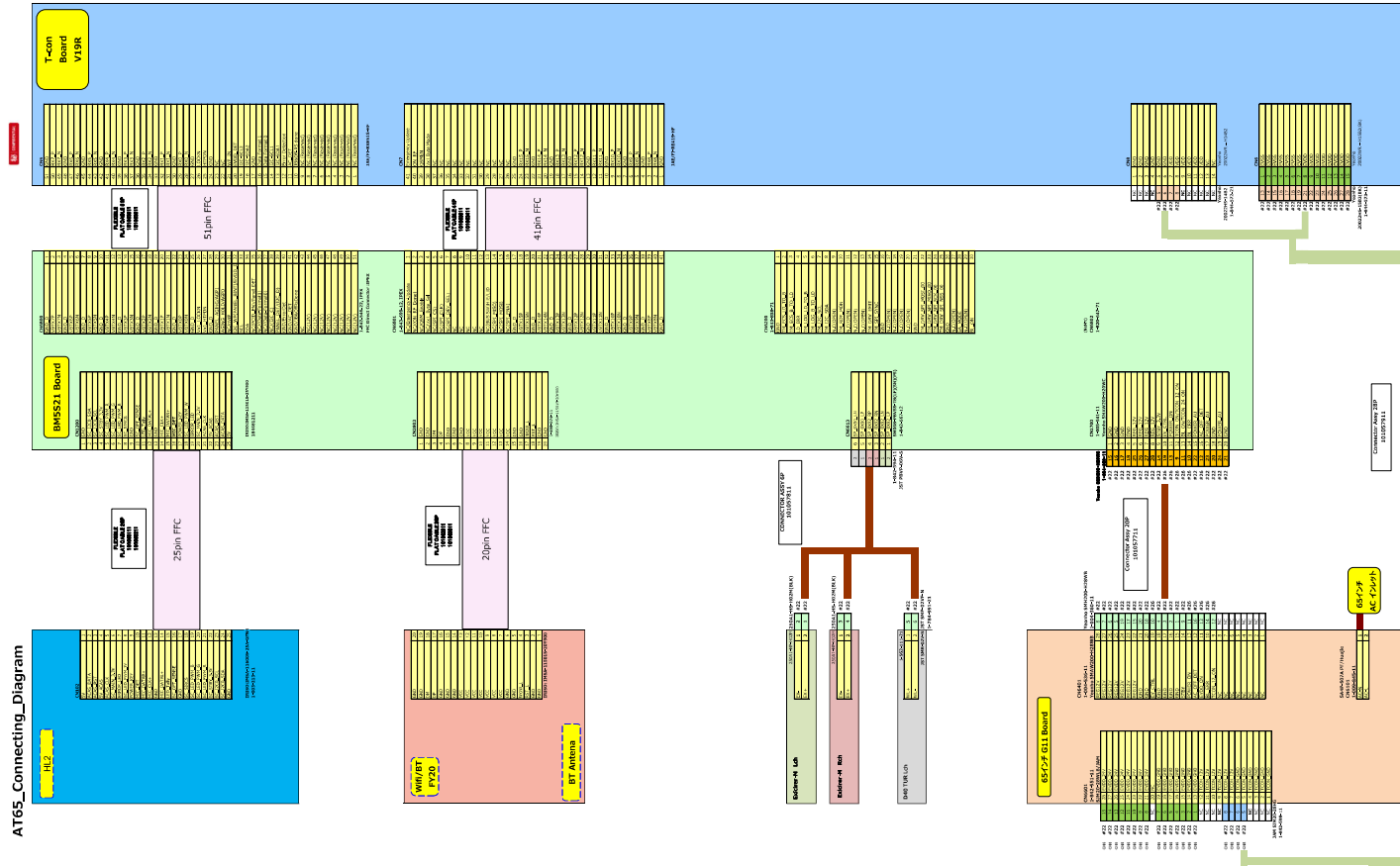
DIAGRAM

55 Connecting Diagram



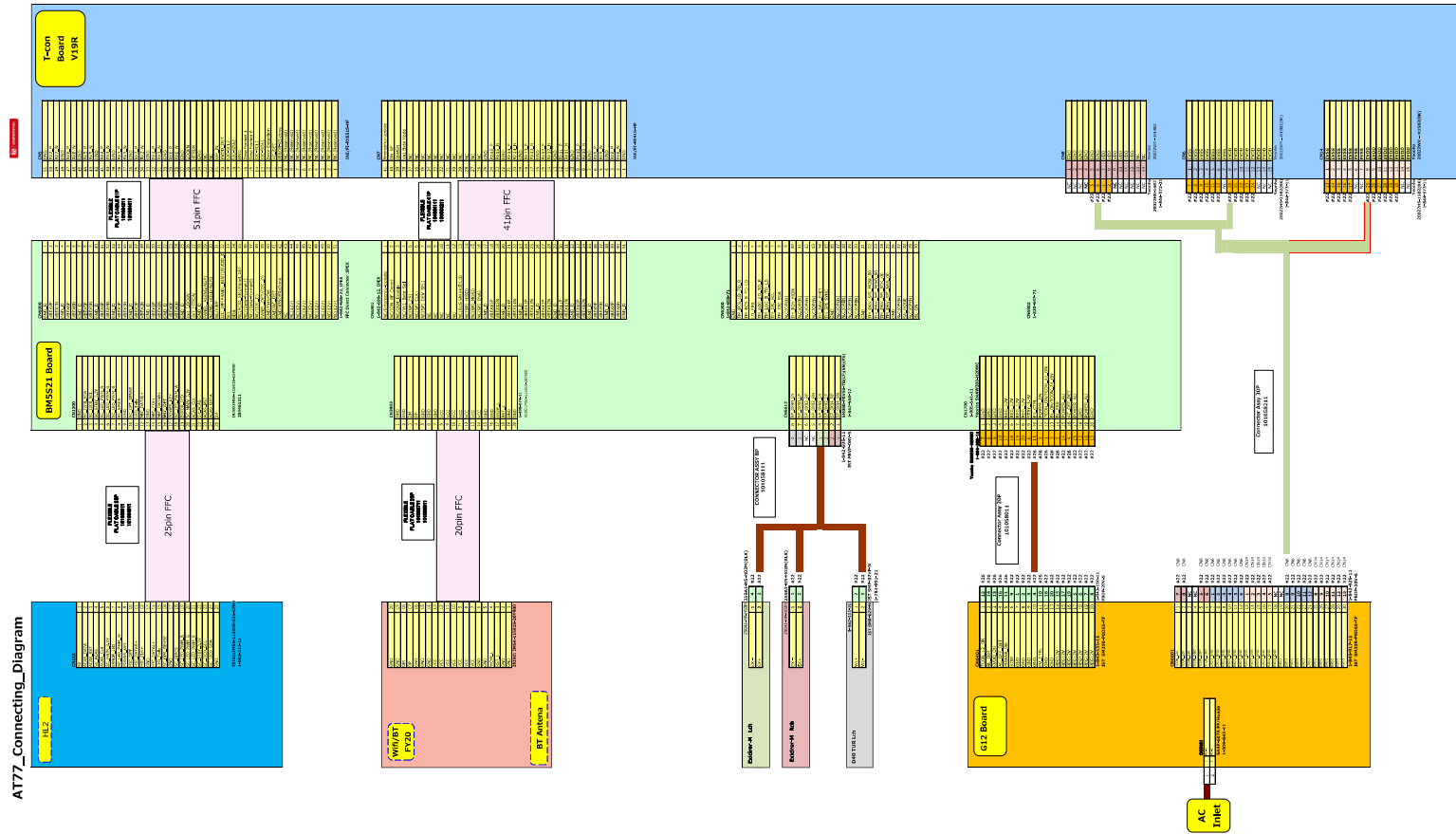
DIAGRAM

65 Connecting Diagram



DIAGRAM

77 Connecting Diagram



HANDLING GUIDE

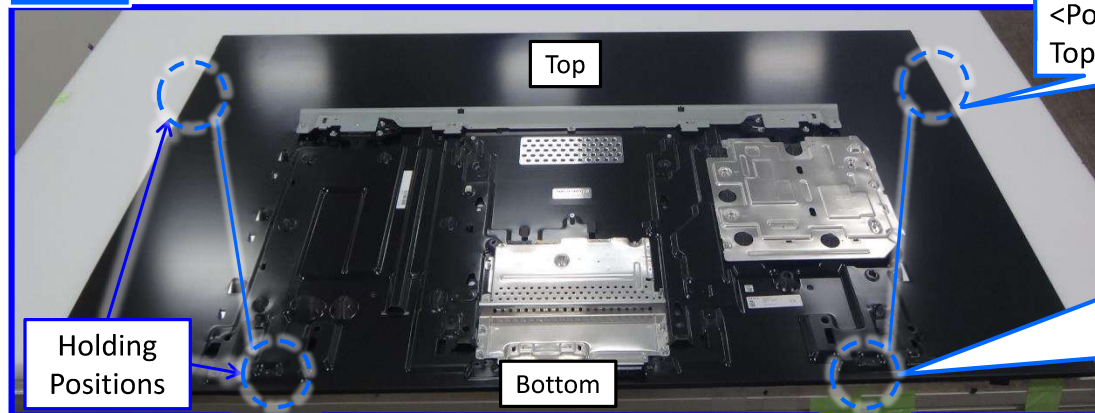
PANEL HANDLING GUIDE – CARRYING (55" / 65")

OK Moving panel vertical position



Hold top and bottom center.
Holding positions are as follows.

OK Holding Positions



<Position>
Top side from mid.

<Position>
Between Spine & T-CON emboss

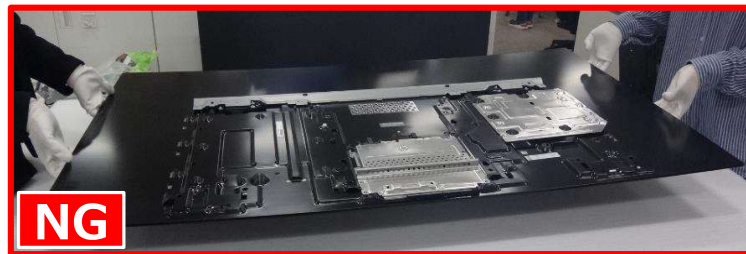
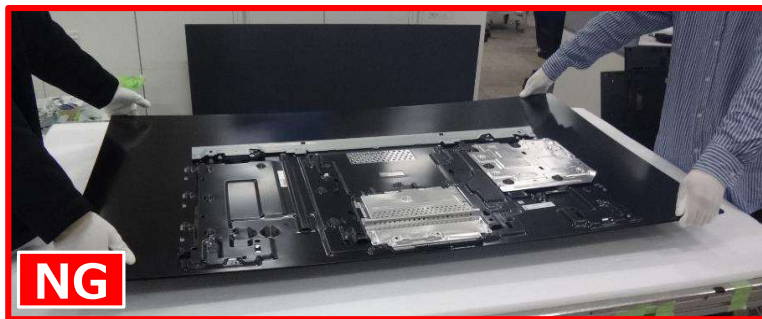


HANDLING GUIDE

PANEL HANDLING GUIDE – CARRYING (55" / 65")

Moving panel face down position

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



HANDLING GUIDE

PANEL HANDLING GUIDE – CARRYING (55" / 65")

Moving panel face down position



Don't catch frame by finger.



Don't push display by finger.



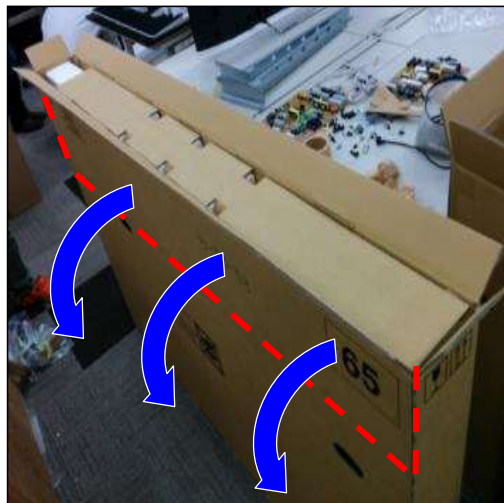
Don't grab 4 corner



Don't push display by finger.

HANDLING GUIDE

PANEL HANDLING GUIDE - SERVICE PANEL UNPACKING (55" / 65")



You can cut the red line and open in order to make it easy to take ⑧ out



Put ⑧ on stable flat floor



Open ⑧ and tear the AL bag to take panel out.
You can tear it by hand easily once you make small cut on it

- ※ Please take care not to cut panel when you make small cut on the bag
- ※ Please take care not to fall down the panel

HANDLING GUIDE

PANEL HANDLING GUIDE – CAUTION (77”)

Please don't grab panel as shown in right pictures over the AL bag.



Panel is in the AL bag



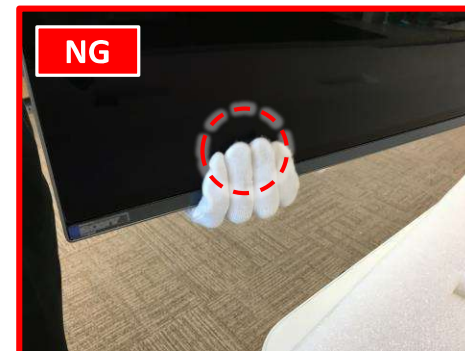
Don't catch and pull edge of panel by finger.



Don't push display by finger.



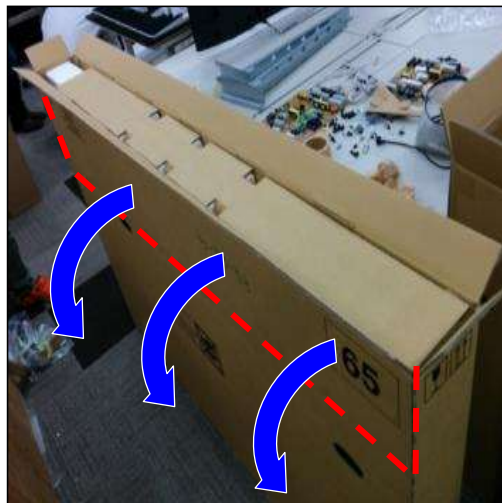
Don't grab 4 corners



Don't push display by finger.

HANDLING GUIDE

PANEL HANDLING GUIDE - SERVICE PANEL UNPACKING (77")



You can cut the red line and open in order to make it easy to take ⑧ out



Put ⑧ on stable flat floor



Open ⑧ and tear the AL bag to take panel out.
You can tear it by hand easily once you make small cut on it

- ※ Please take care not to cut panel when you make small cut on the bag
- ※ Please take care not to fall down the panel

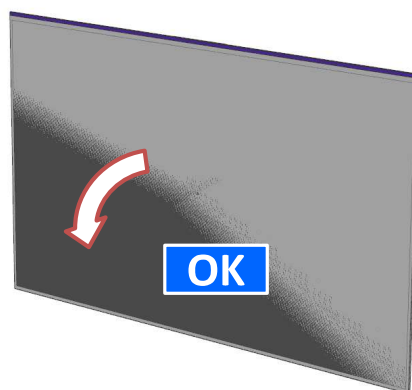
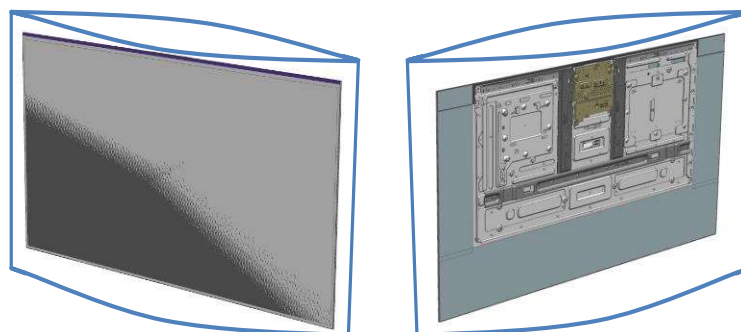
HANDLING GUIDE

PANEL HANDLING GUIDE - SERVICE PANEL UNPACKING (77")

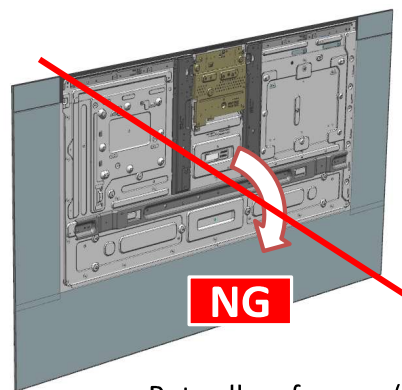
Move to face down condition



Packing condition of panel in AL bag is upside down.



Put cell surface down (OK)



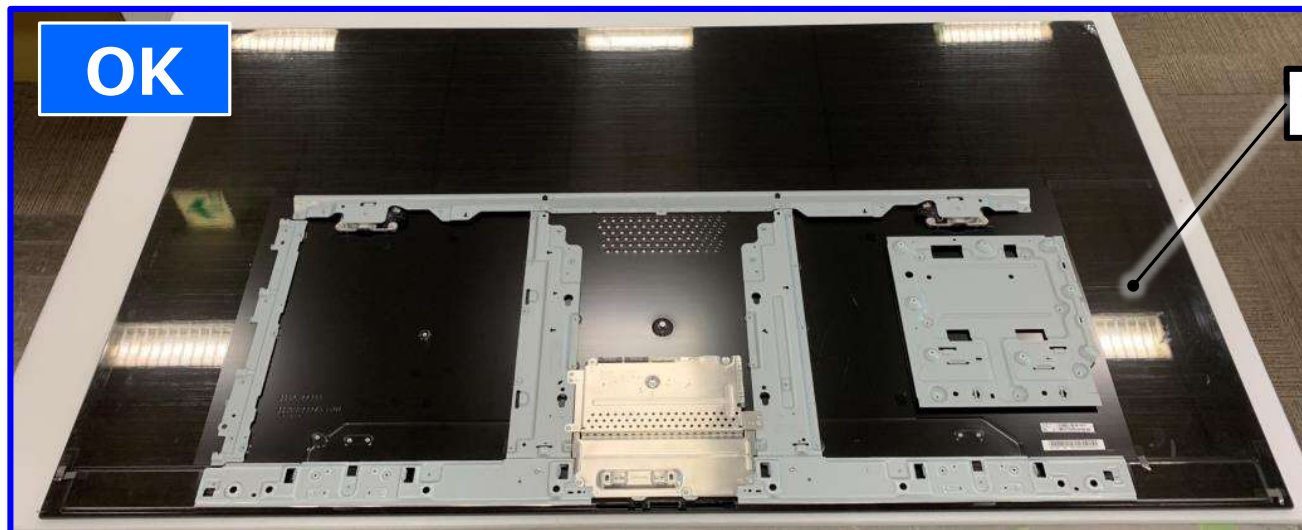
Put cell surface up (NG)

HANDLING GUIDE

PANEL HANDLING GUIDE – ON WORKING TABLE (77”)

Caution

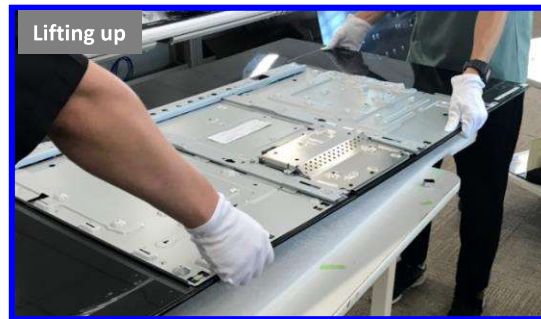
- Put soft & clean sheet on the table.
- Be careful to dust, scrap, screw on table.
(There are risks of scratches on screen surface.)
- One-man handling is prohibited.
- Don't Slip the panel on table



HANDLING GUIDE

PANEL HANDLING GUIDE – LIFTING UP & CARRYING (77”)

Face down condition.

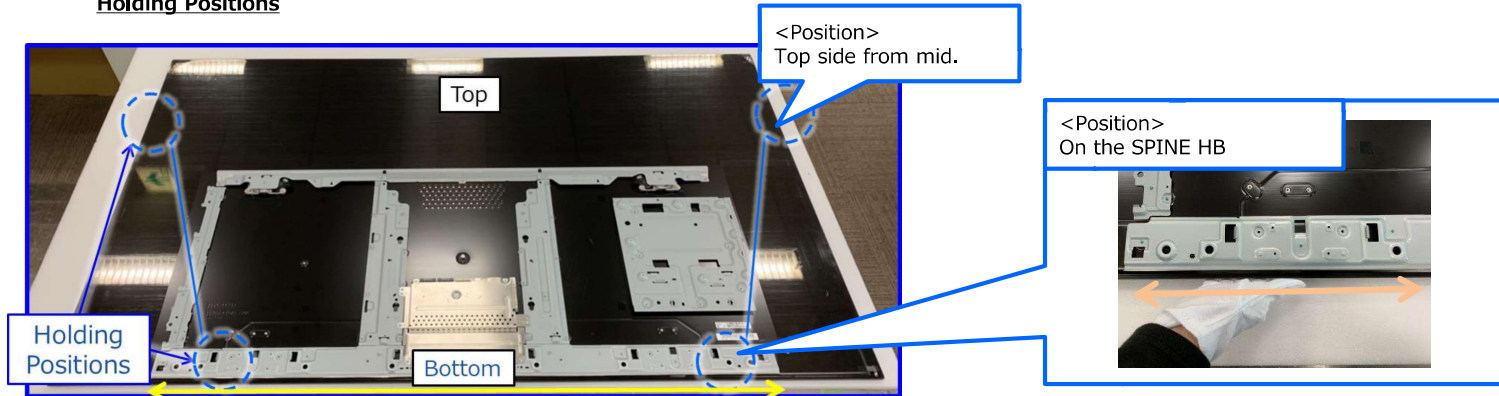


Hold side and bottom center.
Holding positions are as follows.



Lift up to vertical position
like picture above.

Holding Positions



HANDLING GUIDE

PANEL HANDLING GUIDE – LIFTING UP & CARRYING (77”)

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



NG



NG



NG

2024/01/13 10:32:08 (GMT+09:00)

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

9-888-795-21

English
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SYS SET

SERVICE MANUAL (DISASSEMBLY)

ORIGINAL MANUAL ISSUE DATE: 2023.12

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9-888-795-U1

OLED TV

SONY®

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

MODEL LISTS


<u>Model</u>	<u>Remote</u>	<u>Destination</u>	<u>Remote</u>	<i>Self Diagnosis</i> <small>Supported model</small>
XR-55A80J	RMF-TX520U	UCM	RMF-TX520U	
XR-65A80J	RMF-TX520U	UCM		
XR-65A80CJ	RMF-TX520U	UC2		
XR-77A80J	RMF-TX520U	UCM		
XR-77A80CJ	RMF-TX520U	UC2		

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1-3 WIRE DRESSING	9
1-4 EXPLODED VIEW AND PART LIST	20
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Please refer Service Manual (Troubleshooting) for below information:

- General Safety Notes
- Self Diagnostic Function
- Triage Chart
- Troubleshooting, Troubleshooting reference
- Software Update & Reset
- Diagrams: Connector Diagram
- Panel and TV Set Handling

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

TOOLS & EQUIPMENTS

1 LIST OF ITEMS TO PREPARE

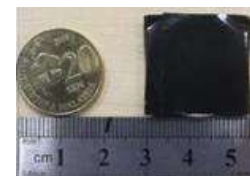
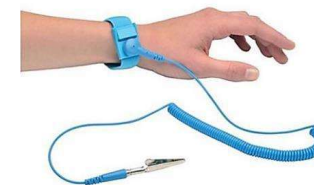
1. Screwdriver (e.g. #2 Phillips Screwdriver)
2. Multimeter
3. ESD Wrist Straps
4. Metal Washer (Flat) or Coin (for remove Rear Cover)
5. Ruler (for remove Rear Cover)
6. Service Manual (Disassembly) (for remove & replace details)

2 OPTIONAL EQUIPMENT

1. Screwdriver (e.g. #0 Phillips Screwdriver)
2. Parts Tray for loose screws and small items
2. Flashlight
3. 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)



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 1 XR-55A80J

1-1. DISASSEMBLY AND REMOVAL CAUTION

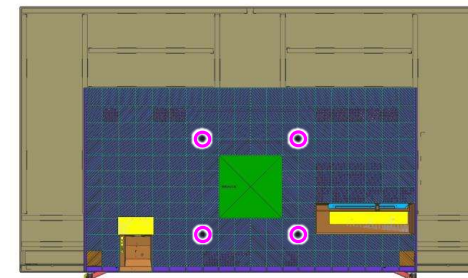
Rear Cover

1. Remove Screw

Take out screws below to open the rear cover :

○ SCREW, ORNAMENTAL M6X12 (4pcs)

* Note : See page 24 for more screw info



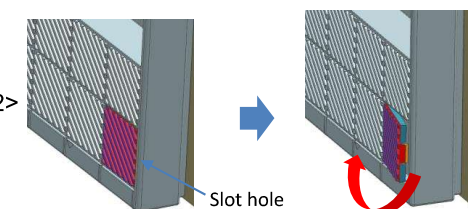
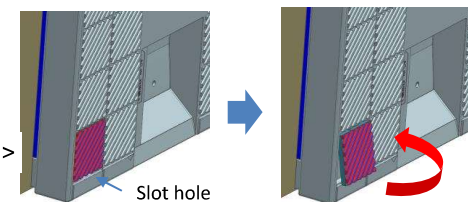
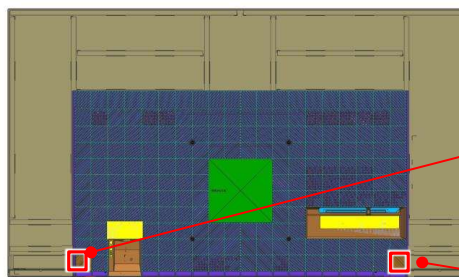
2. Remove Cover Hook

□ Location of cover hook

* Note : Washer or coin to unhook Cover Hook
 - Wrap washer in VA tape (15mm X 55mm)
 - Thickness approximately 1.5mm

<1> Left side,

<2> Right side



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.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 1 XR-55A80J

1-1. DISASSEMBLY AND REMOVAL CAUTION

Rear Cover

3. Remove Rear Cover

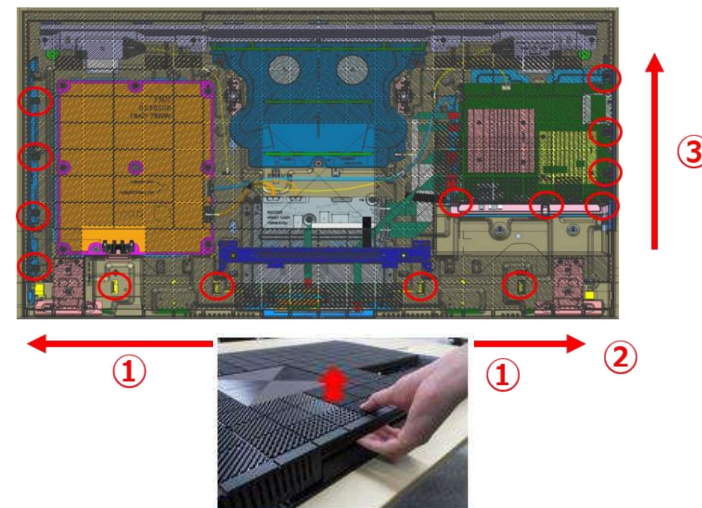
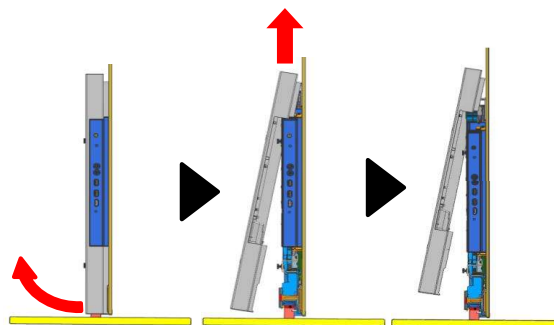
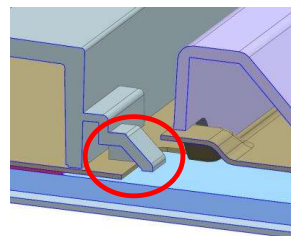
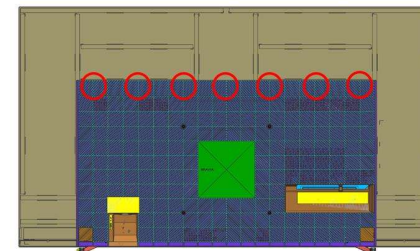
1. ○ Unlock Rear Cover hook : 14 places

○ Hook position : 7 places

★ Caution:
Top side has some hooks. Don't open Rear Cover fully.

2. Pull the Rear Cover.

3. Push Rear Cover upwards to release the top hooks
⇒Refer to the next page for the detail method.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 1 XR-55A80J

1-1. DISASSEMBLY AND REMOVAL CAUTION

Rear Cover

3. Remove Rear Cover

1. Pull Rear Cover bottom center until hook release sound is heard.
2. Pull Rear Cover corner until hook release sound is heard.

* Note :

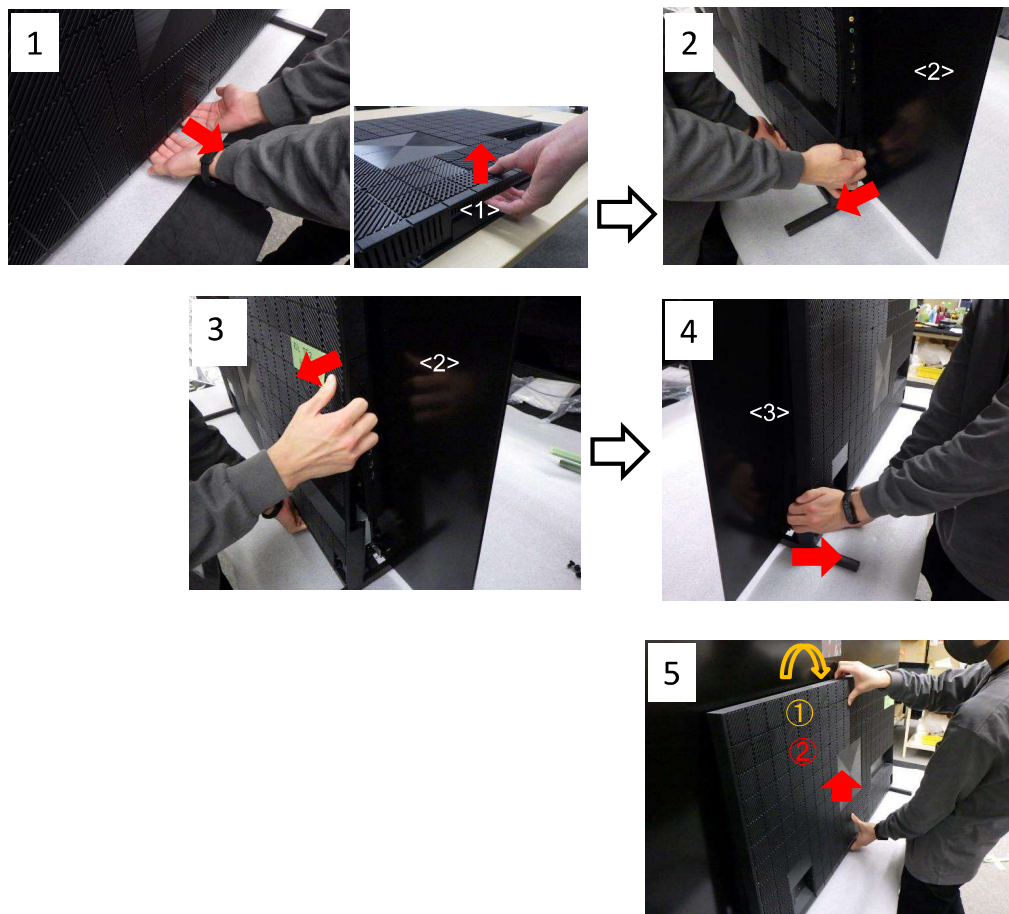
- <1> See from the bottom
- <2> Right side from back view

3. Pull the right side until hook release sound is heard.
4. Pull Rear Cover corner until hook release sound is heard.

* Note :

- <2> Right side from back view
- <3> Left side from back view

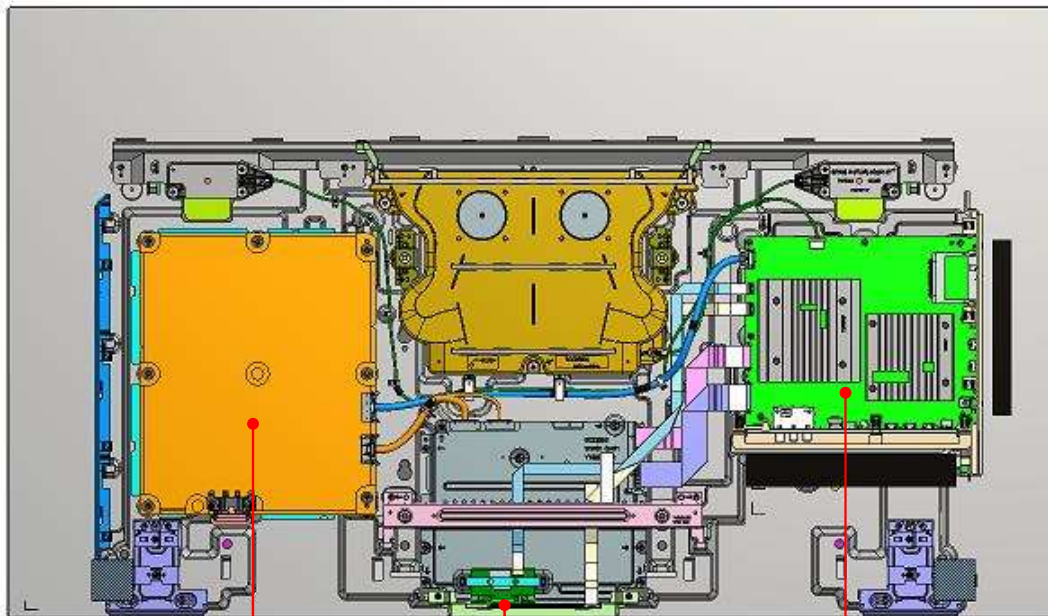
5. Holds the center of Rear Cover.
 - ⇒ ① Twist the top side toward you
 - ⇒ ② Pull up RC



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 1 XR-55A80J

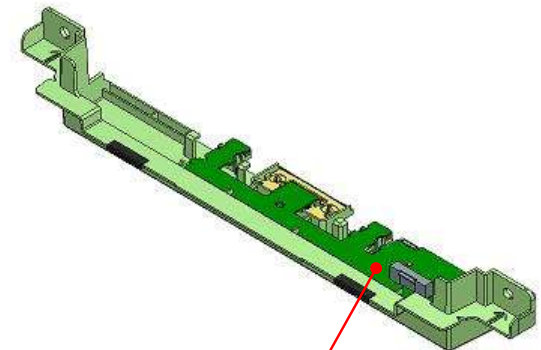
1-2. BOARD LOCATION



POWER BOARD

WLAN BOARD

MAIN BOARD



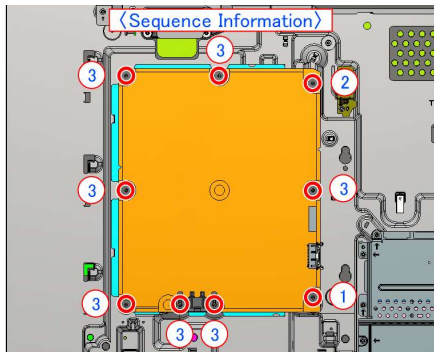
RECEIVER BOARD

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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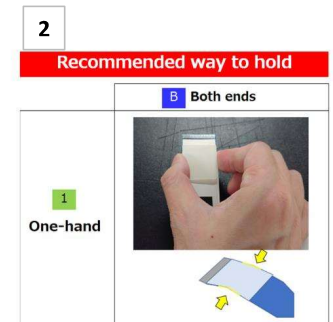
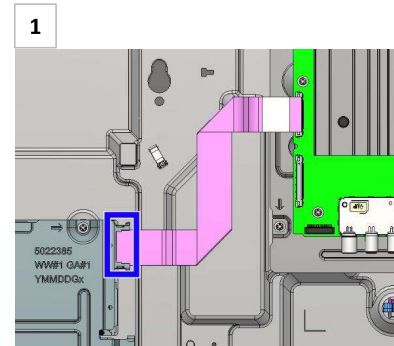
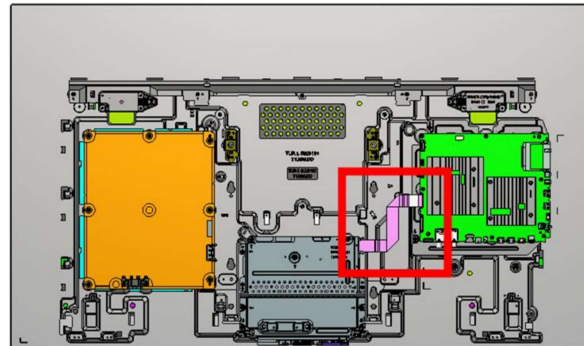
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

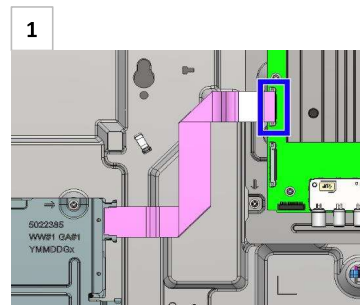
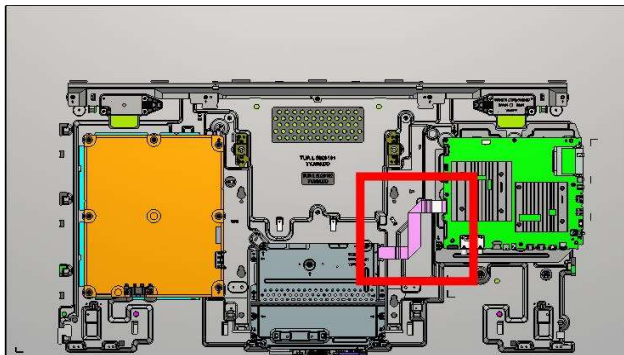
Information



Connect



Connect

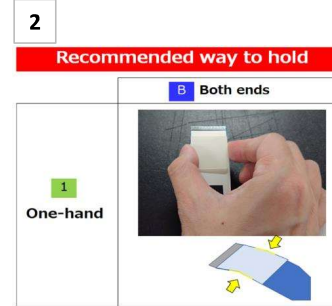
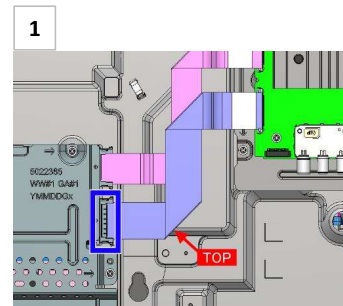
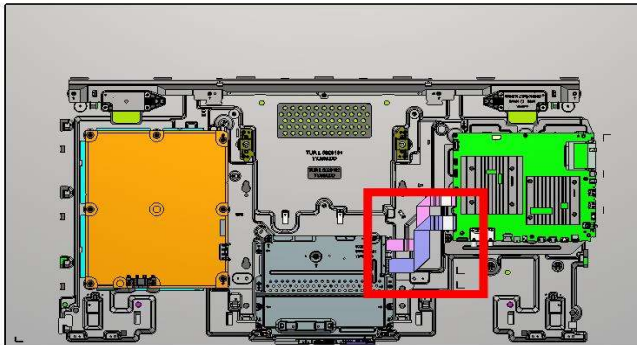


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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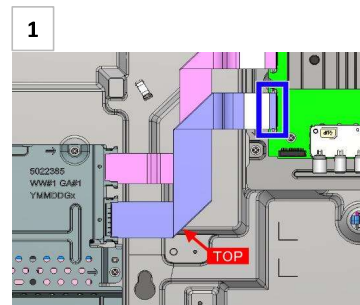
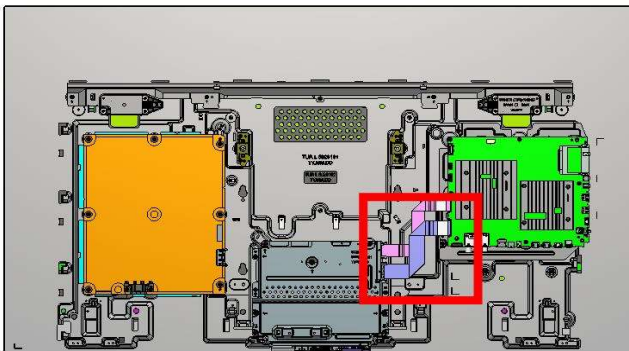
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

Connect



Connect

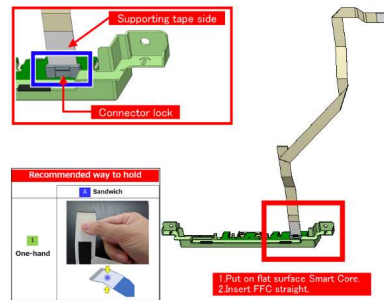
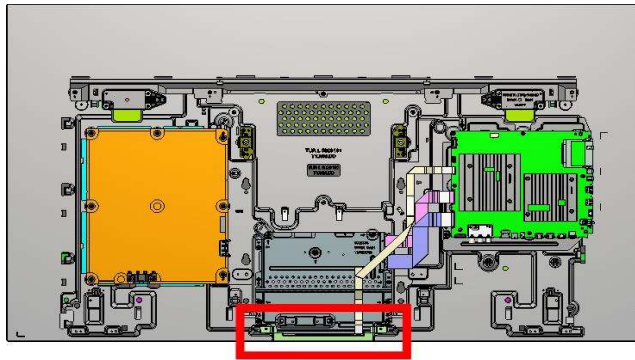


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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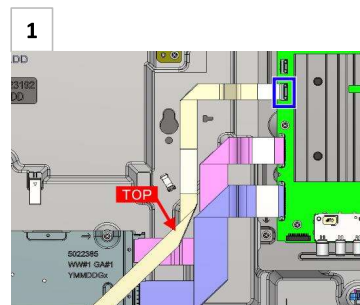
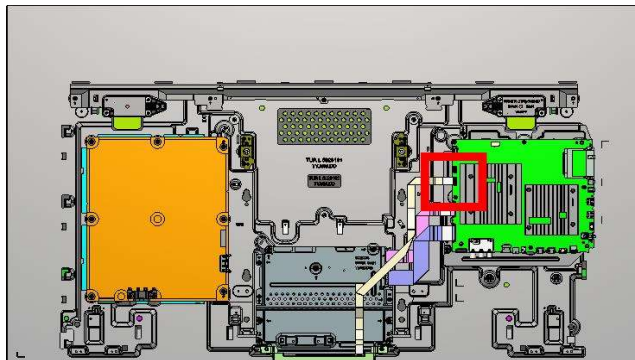
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

Connect



Connect

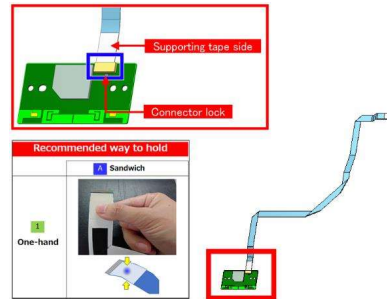
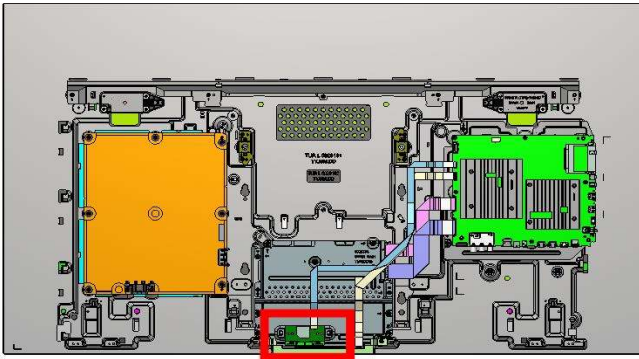


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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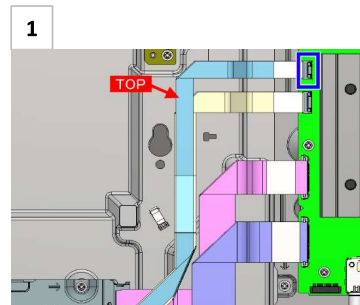
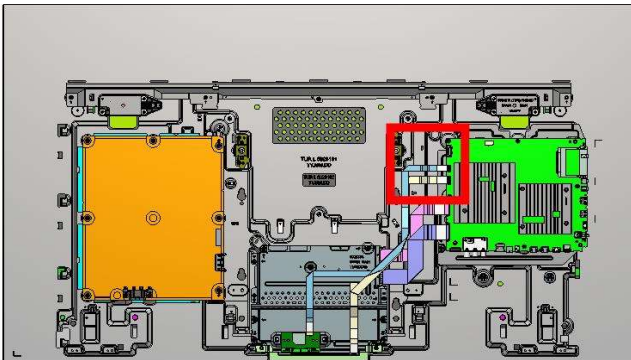
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

Connect



Connect

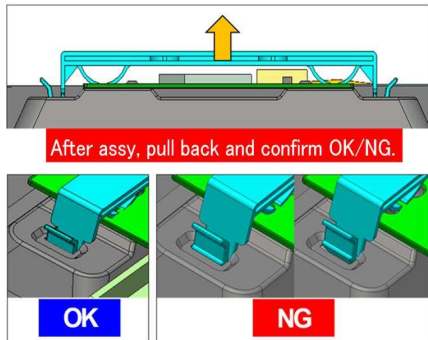


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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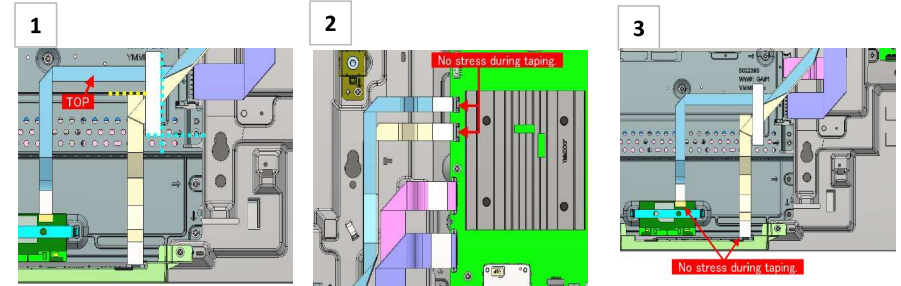
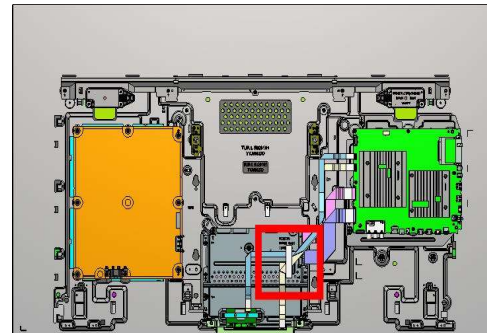
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

Information

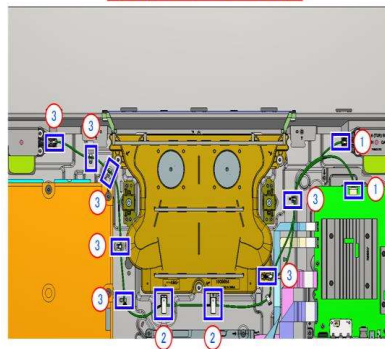


Tape

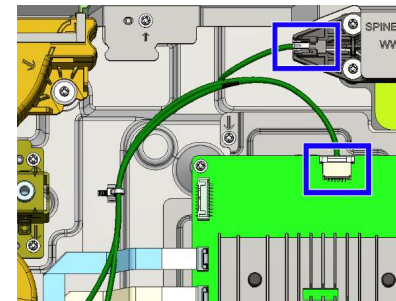
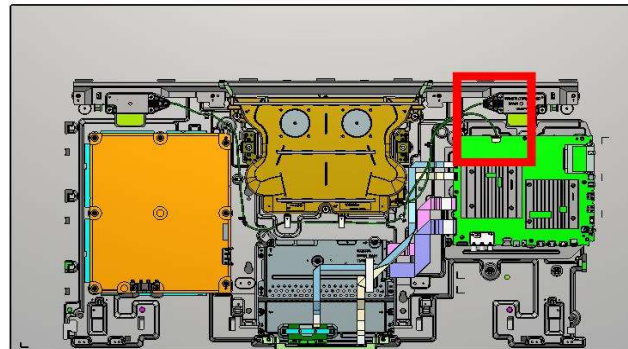


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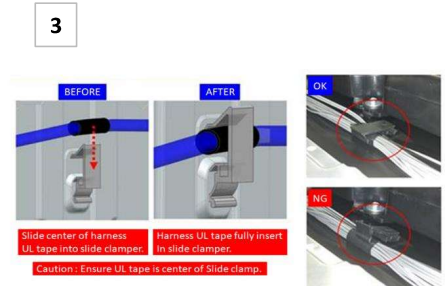
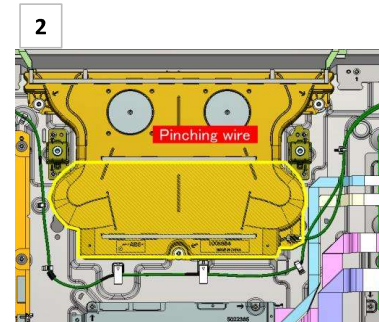
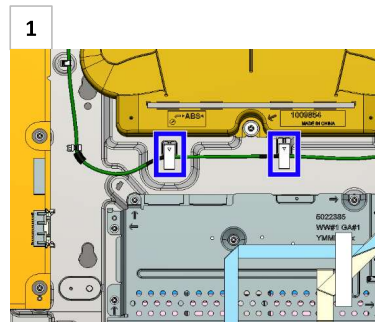
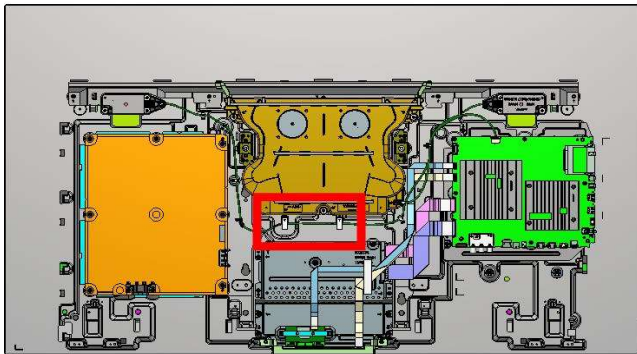


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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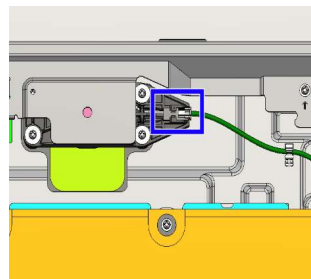
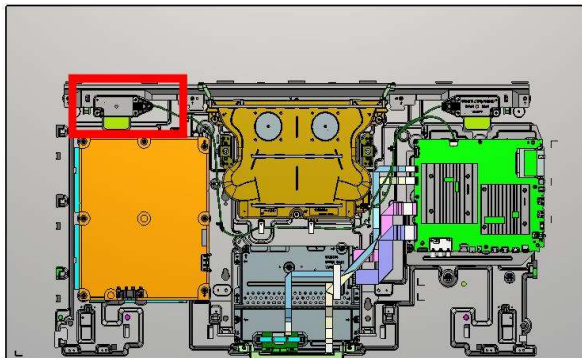
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

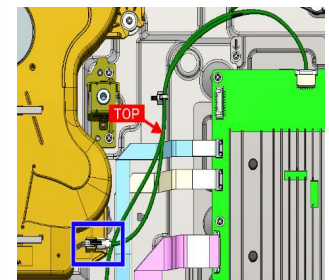
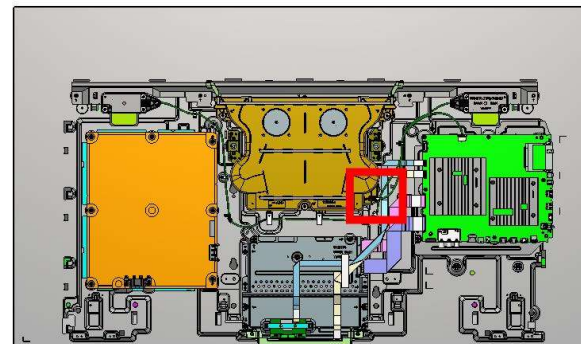
Wire Dressing



Connect



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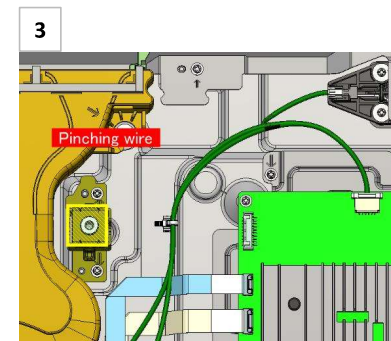
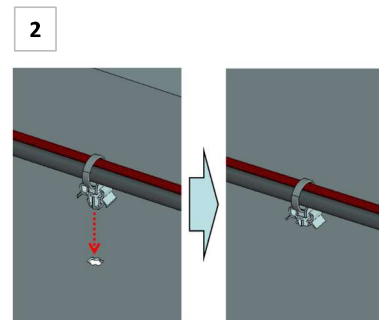
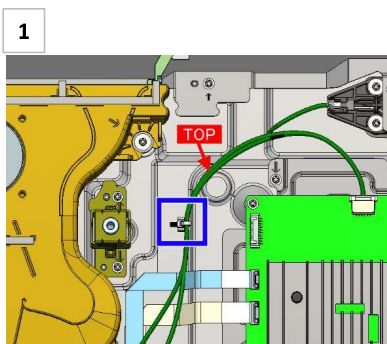
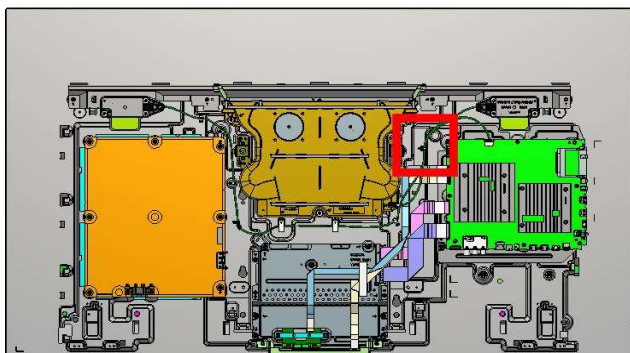


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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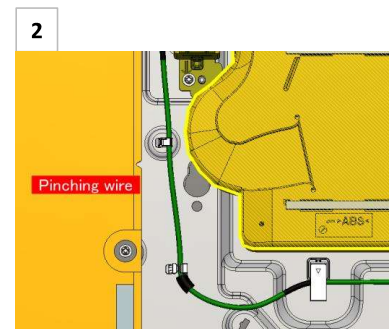
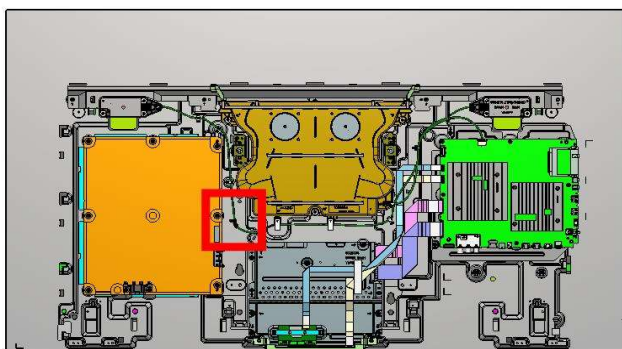
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

Wire Dressing



Wire Dressing

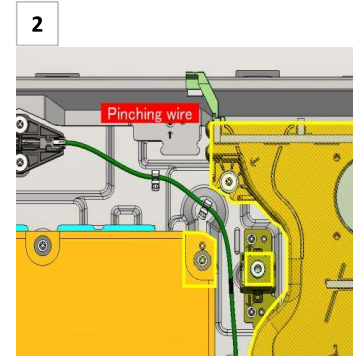
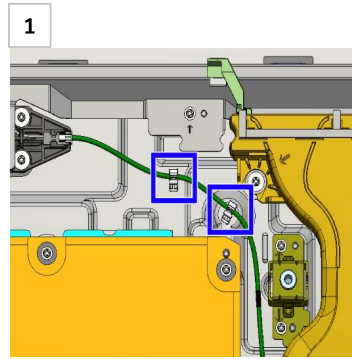
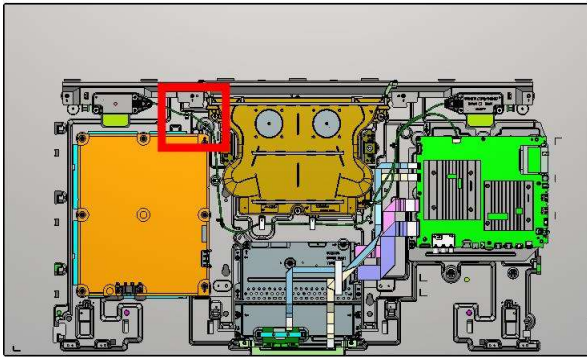


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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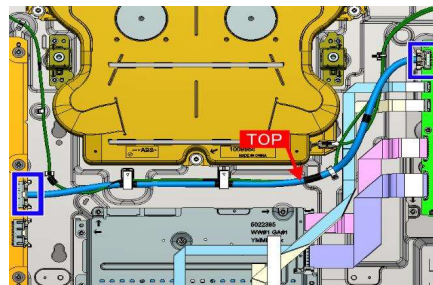
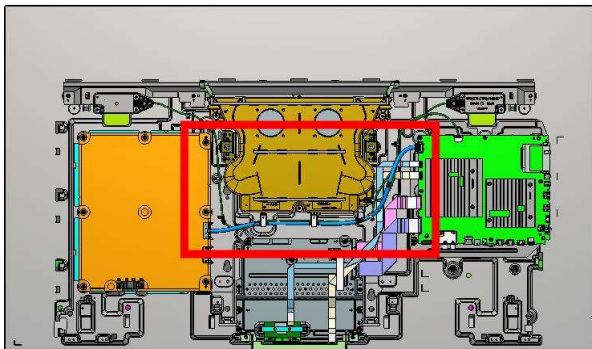
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

Wire Dressing



Connect

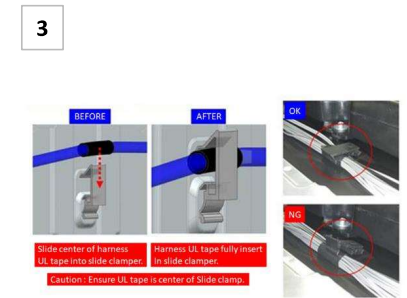
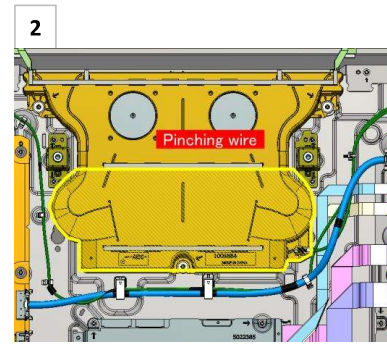
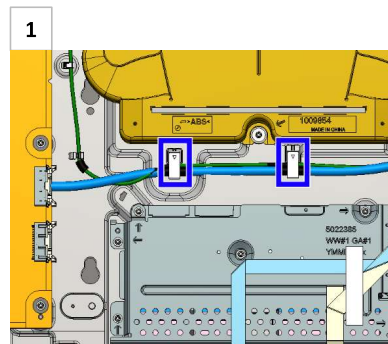
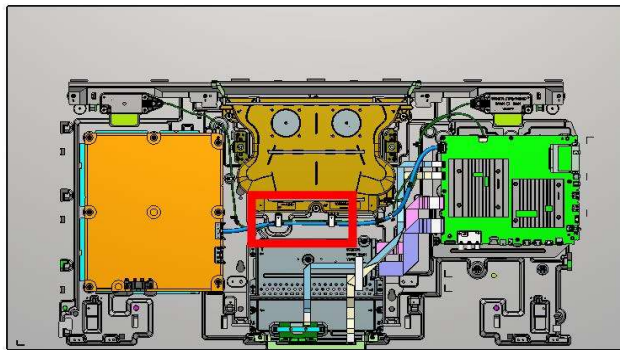


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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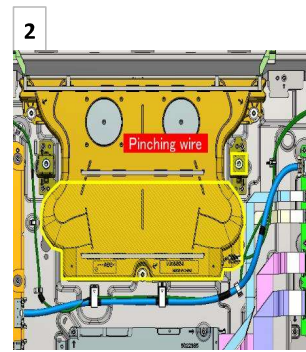
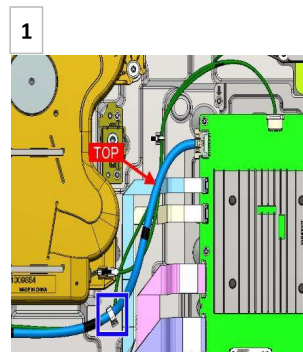
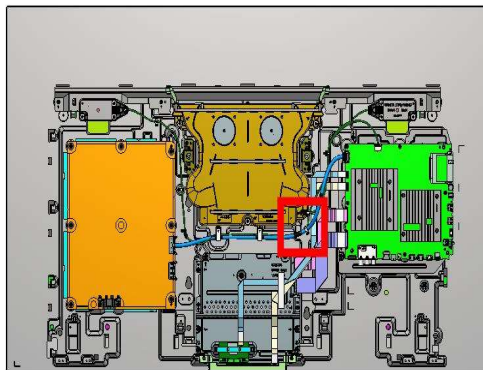
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

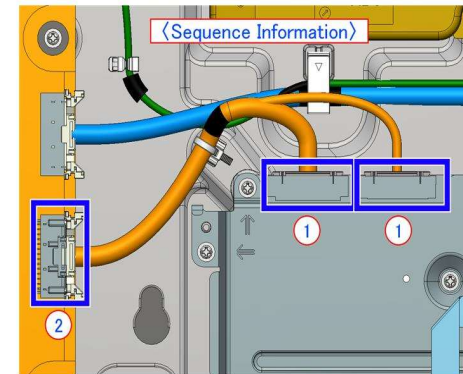
Wire Dressing



Wire Dressing



Information

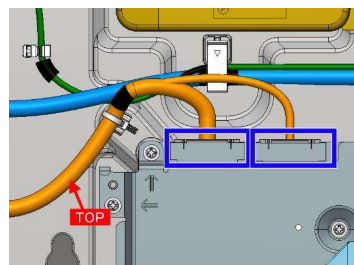
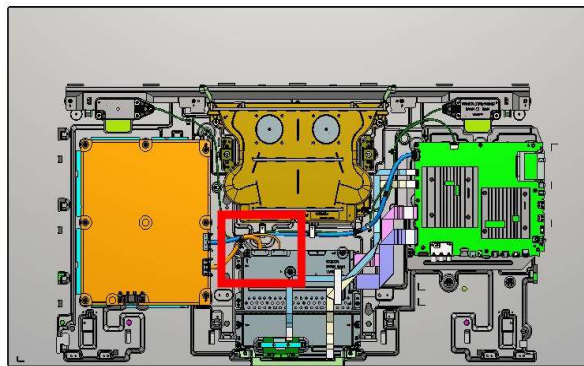


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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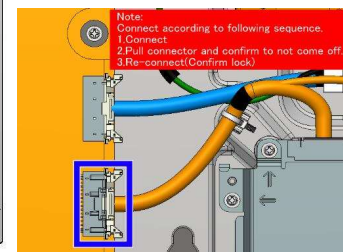
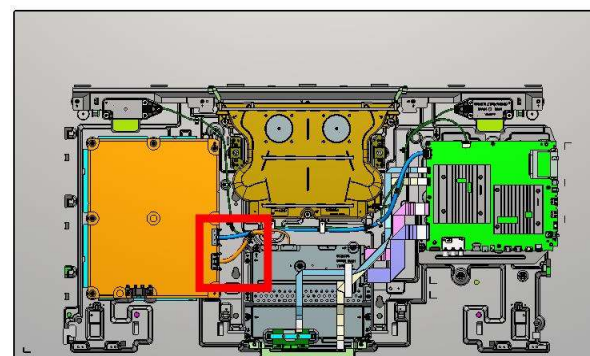
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

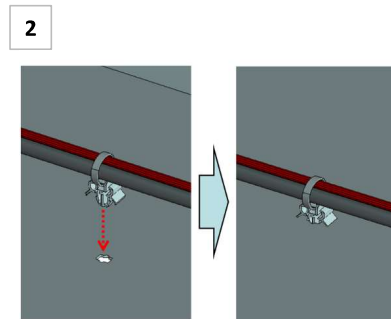
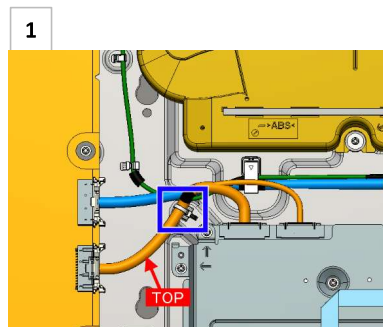
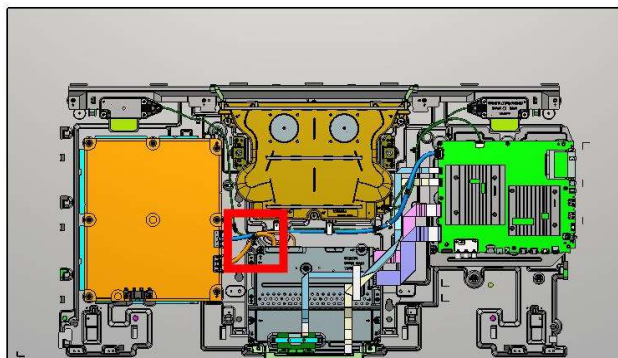
Connect



Connect



Wire Dressing

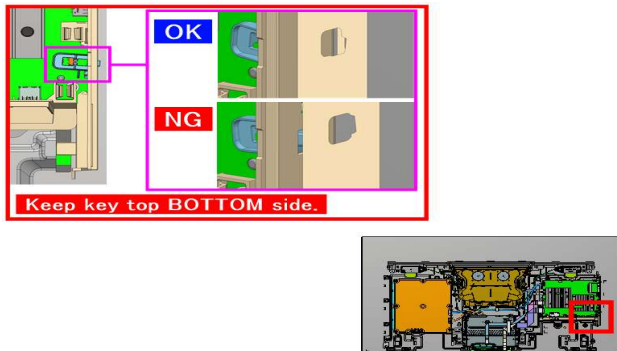


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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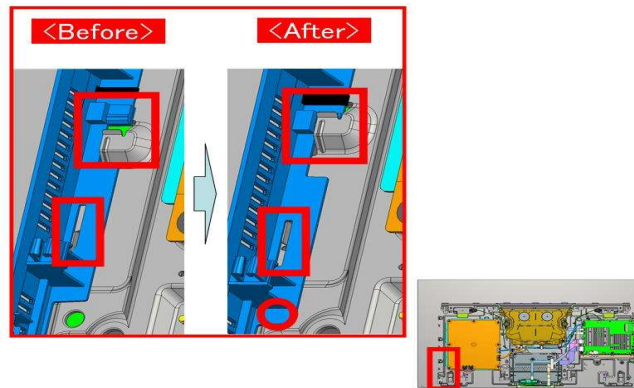
SECTION 1 XR-55A80J

1-3. WIRE DRESSING

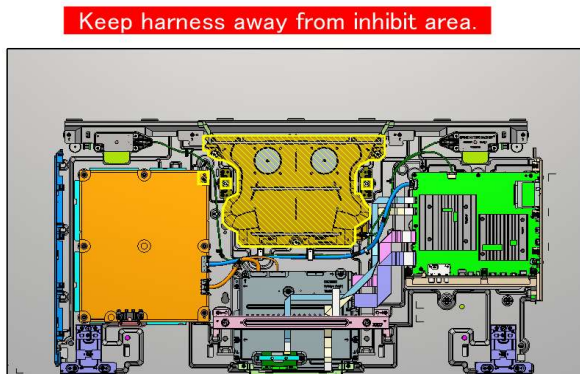
Information



Information



Information



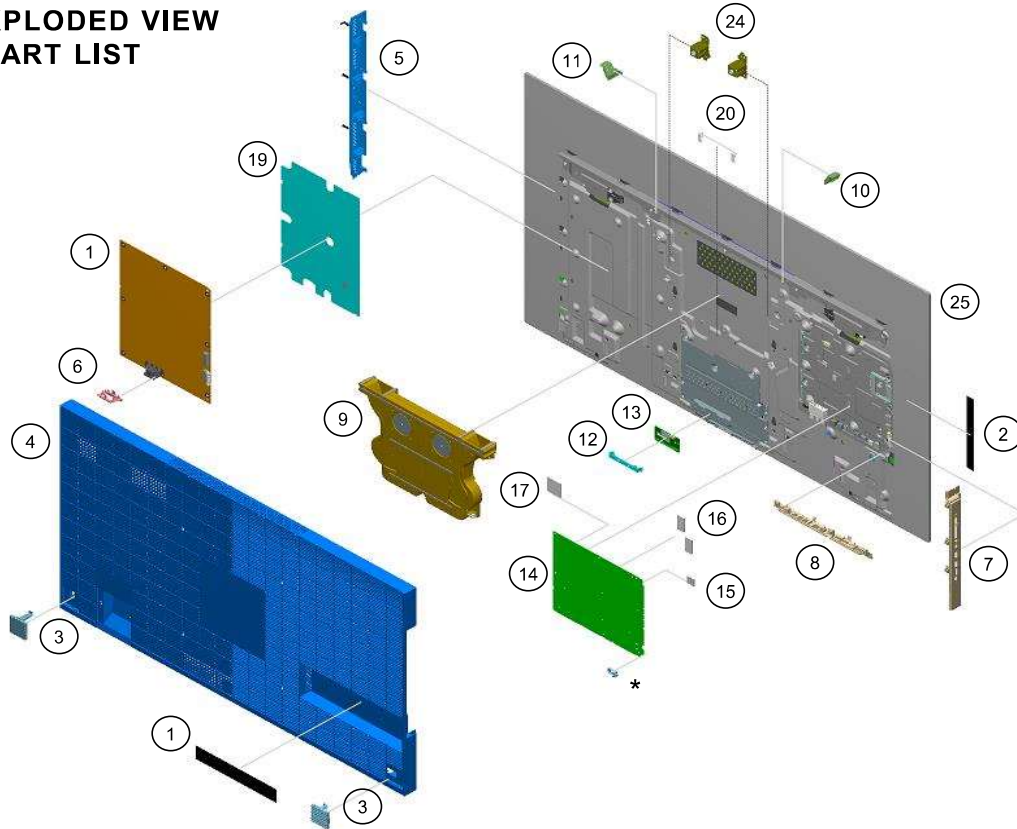
TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 1 XR-55A80J

- 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

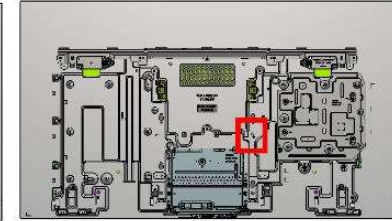
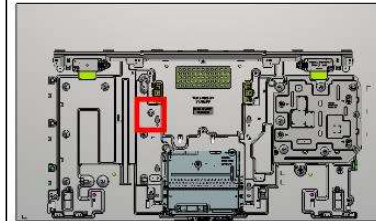
1-4 EXPLODED VIEW AND PART LIST



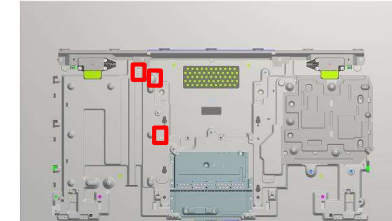
* Only on limited region / country / TV model

(21) 4-745-336-01 SLIDE, CLAMP(MINI)

(22) 2-650-770-21 SLIDE, CLAMP

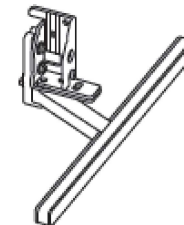


(23) 5-009-031-02 CLAMPER,CABLE S(BNN)



Stand

(26) (27)



TOOLS & EQUIPMENTS

SECTION 1




SECTION 2

SECTION 3

SMART CORE

SECTION 1 XR-55A80J

SET PART LIST


REF. NO	PART NO.	DESCRIPTION	XR-55A80J
			UCM
1	5-023-597-01	LABEL, UNDER TERMINAL (BM5S21)	.
2	5-024-392-31	LABEL, SIDE TERMINAL (BM5S21)	.
3	5-026-740-02	COVER HOOK (TUR)	.
4	5-027-137-01	REAR COVER (L TUR) A	.
5	5-027-036-02	BRACKET VENT (TUR) A	.
6	5-023-743-01	BRACKET, AC INLET (C18)	.
7	5-023-336-11	BRACKET, SIDE (TUR)	.
8	4-724-146-14	BRACKET UNDER (BM2A)	.
9	1-009-854-11	SP BOX ASSY, FY21 D40 SWF	.
10	5-026-741-01	SPACER TOP L (TUR)	.
11	5-026-742-01	SPACER TOP R (TUR)	.
12	5-009-258-21	BRACKET, WIFI(BNN)	.
 13	1-005-419-33	WLAN/BT MODULE(11AC)FXC	.
 14	A-5026-264-A	COMPL SVC BM5S21_AT_UCMX	.
15	4-699-975-02	SHEET,THERMAL(5567H)	.
16	5-023-557-01	SHEET THERMAL(BM5S21 DDR)	.
17	5-011-960-01	SHEET, THERMAL(LMN TCON)	.
 18	1-010-549-11	G11B - STATIC CONVERTER(TV)	.
19	5-023-830-11	SHT, INSULATION (TUR 2L) A	.
20	5-009-030-01	CLAMPER,CABLE L(BNN)	.
21	4-745-336-01	SLIDE, CLAMP(MINI)	.
22	2-650-770-21	SLIDE, CLAMP	.

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 1

XR-55A80J

SET PART LIST

REF. NO	PART NO.	DESCRIPTION	XR-55A80J
			UCM
23	5-009-031-02	CLAMPER,CABLE S(BNN)	•
24	*5-023-713-01	BRACKET, VESA(3L LMN)	•
 25	A-5026-952-A	P-MOD (YDBO055UNG01)(SVC)	•
26	5-023-427-01	STAND, BASE (L) (L TUR) A	•
27	5-023-428-01	STAND, BASE (R) (L TUR) A	•

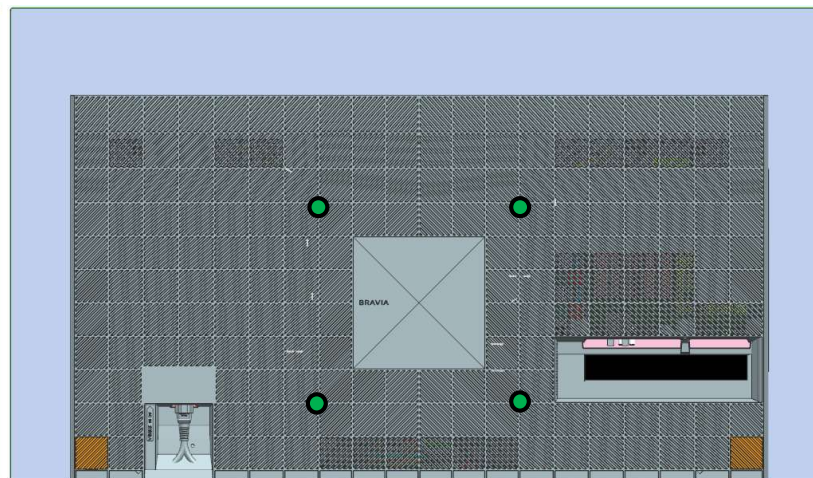
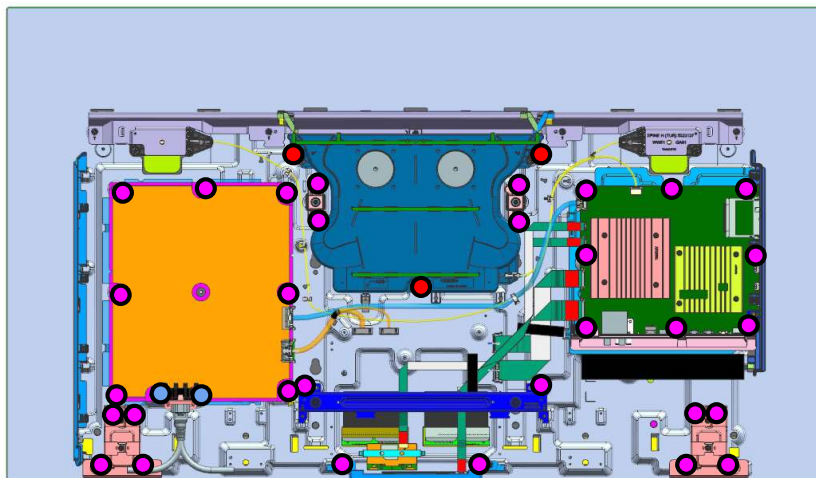
When replacing P-MOD, please also replace the following parts to new one at the same time.

- 2. LABEL, SIDE TERMINAL (BM5S21)
- 19. SHT, INSULATION (TUR 2L) A

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 1 XR-55A80J

SCREW

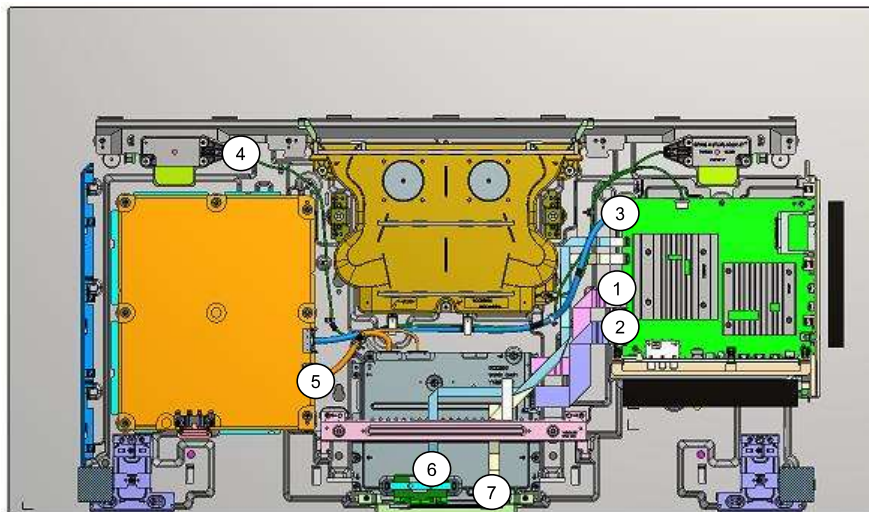


REMARK	P/N	DESCRIPTION	QUANTITY	TORQUE
●	4-268-126-02	SCREW, ORNAMENTAL M6X12	4	1.2+/-0.1 (N.m)
●	4-472-518-11	SCREW, +PSW M3x6	31	0.4+/-0.05 (N.m)
●	4-256-393-12	PSW M3x6 W12	3	0.4+/-0.05 (N.m)
●	7-682-948-09	SCREW, +PSW M3X8	2	0.4+/-0.05 (N.m)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 1 XR-55A80J

CONNECTOR




REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-010-634-11	FLEXIBLE FLAT CABLE 41P	CN6801(B)-CN7(TCON)(1)
2	1-010-636-11	FLEXIBLE FLAT CABLE 51P	CN6800(B)-CN5(TCON)(1)
3	1-010-577-11	CONNECTOR ASSY 20P	CN6401(PSU)-CN1700(B)(1)
4	1-010-578-11	CONNECTOR ASSY 6P	CN6613(B)-SP(1)
5	1-010-579-11	CONNECTOR ASSY 28P	CN6601(PSU)-CN8(TCON)-CN6(TCON)(1)
6	1-010-629-11	FLEXIBLE FLAT CABLE 20P	CN3803(B)-BT(1)
7	1-010-631-11	FLEXIBLE FLAT CABLE 25P	CN1200(B)-CN102(H)(1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 1 XR-55A80J

OTHER PARTS

PART NO.	DESCRIPTION	XR-55A80J
		UCM
4-535-064-61	ASSY,FALL LOCK,BELT LL	•
4-262-708-04	CLAMPER, CABLE	•
 1-836-883-12	POWER-SUPPLY CORD	•
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	•
*5-026-348-12	REFERENCE GUIDE	•
*5-026-351-12	SETUP GUIDE	•
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

2-1. DISASSEMBLY AND REMOVAL CAUTION

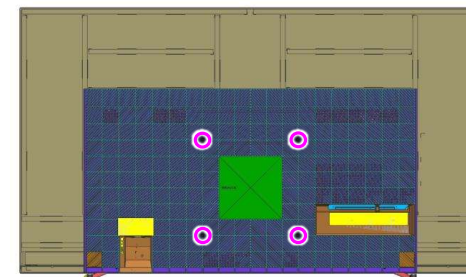
Rear Cover

1. Remove Screw

Take out screws below to open the rear cover :

- SCREW, ORNAMENTAL M6X12 (4pcs)

* Note : See page 45 for more screw info



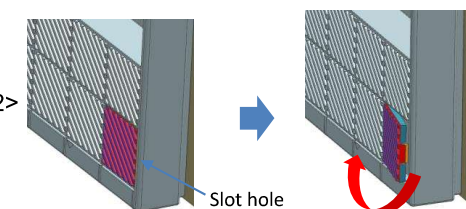
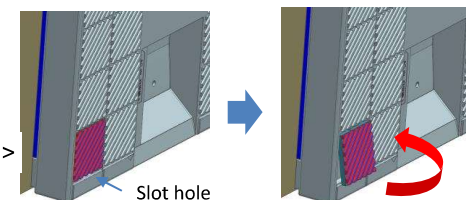
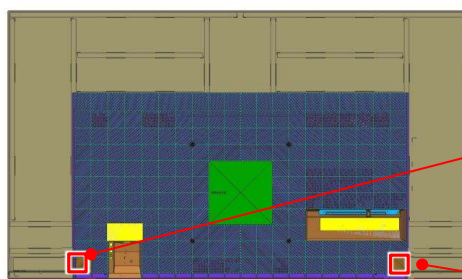
2. Remove Cover Hook

- Location of cover hook

* Note : Washer or coin to unhook Cover Hook
 - Wrap washer in VA tape (15mm X 55mm)
 - Thickness approximately 1.5mm

<1> Left side,

<2> Right side



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.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

2-1. DISASSEMBLY AND REMOVAL CAUTION

Rear Cover

3. Remove Rear Cover

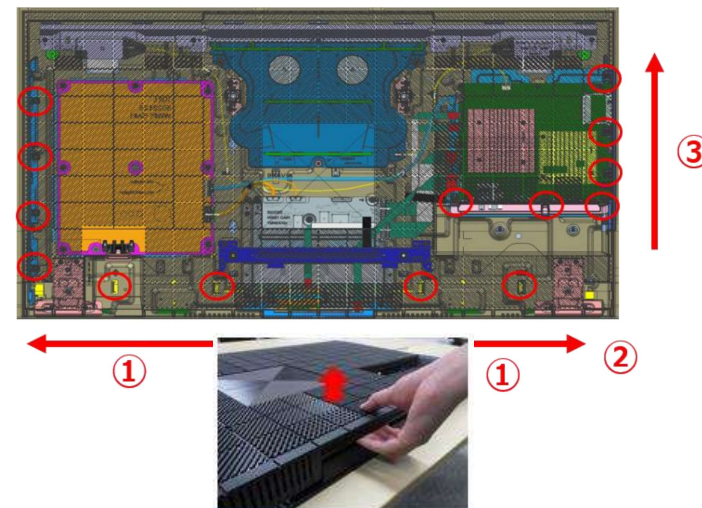
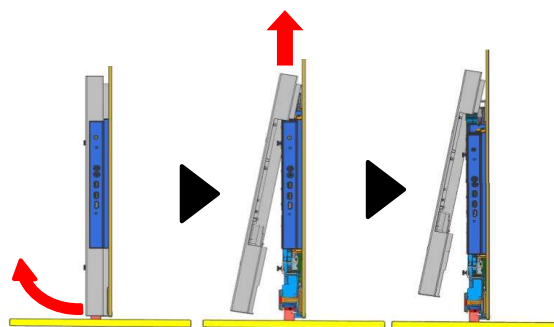
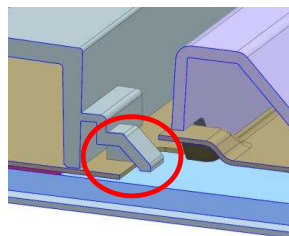
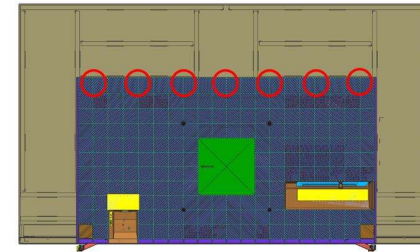
1. ○ Unlock Rear Cover hook : 14 places

○ Hook position : 7 places

★ Caution:
Top side has some hooks. Don't open Rear Cover fully.

2. Pull the Rear Cover.

3. Push Rear Cover upwards to release the top hooks
⇒Refer to the next page for the detail method.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

2-1. DISASSEMBLY AND REMOVAL CAUTION

Rear Cover

3. Remove Rear Cover

1. Pull Rear Cover bottom center until hook release sound is heard.
2. Pull Rear Cover corner until hook release sound is heard.

* Note :

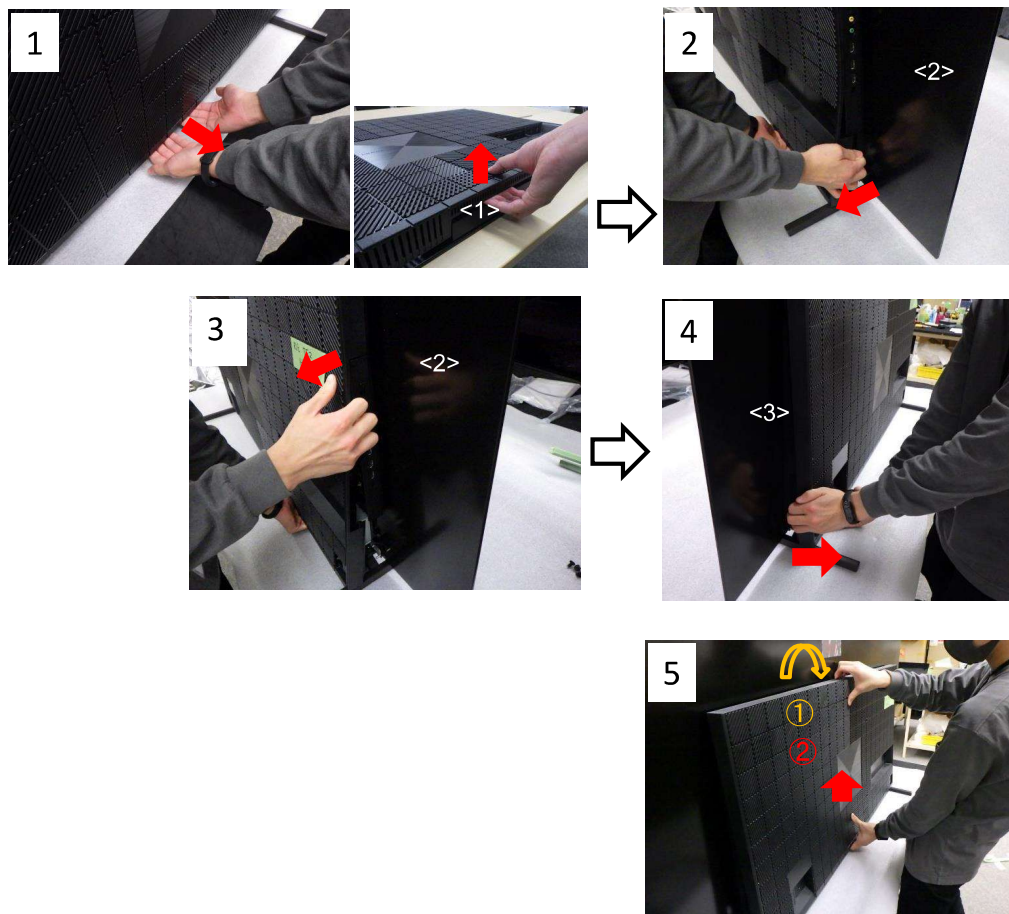
- <1> See from the bottom
- <2> Right side from back view

3. Pull the right side until hook release sound is heard.
4. Pull Rear Cover corner until hook release sound is heard.

* Note :

- <2> Right side from back view
- <3> Left side from back view

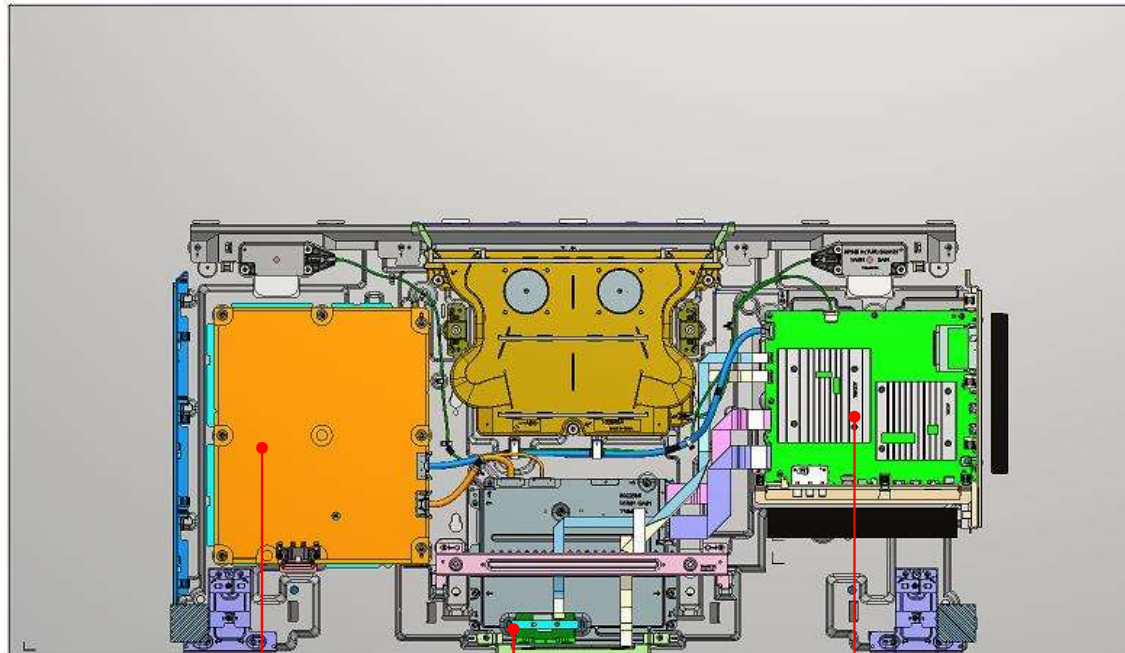
5. Holds the center of Rear Cover.
 - ⇒① Twist the top side toward you
 - ⇒② Pull up RC



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

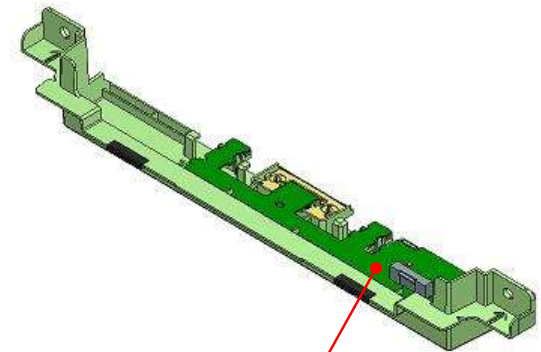
2-2. BOARD LOCATION



POWER BOARD

WLAN BOARD

MAIN BOARD



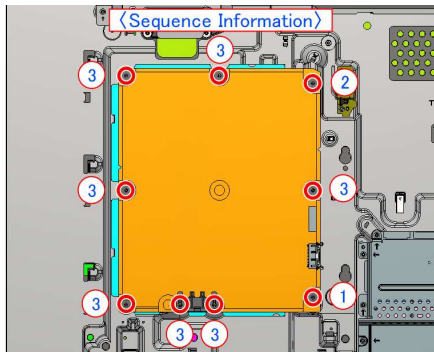
RECEIVER BOARD

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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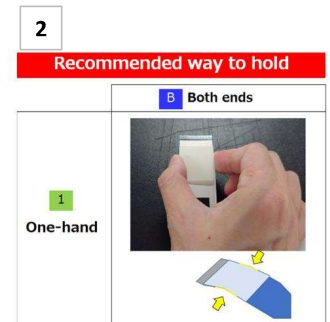
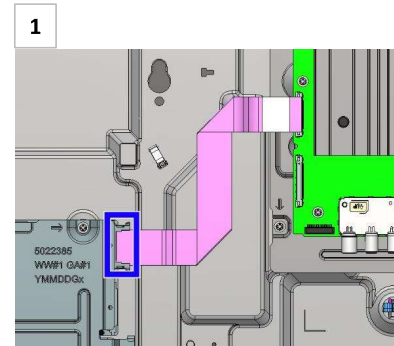
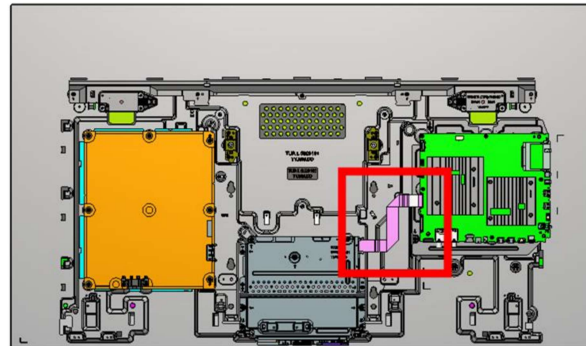
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

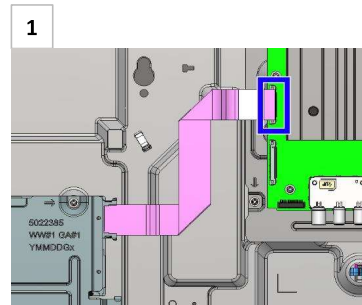
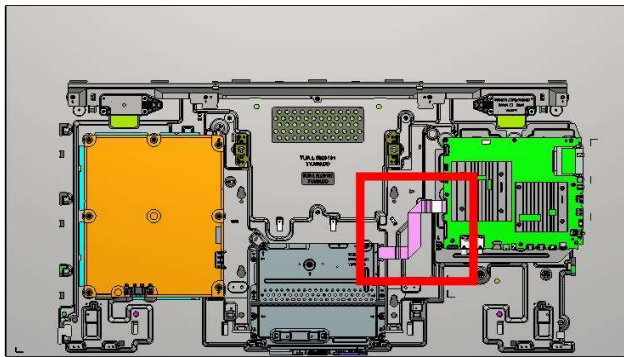
Information



Connect



Connect

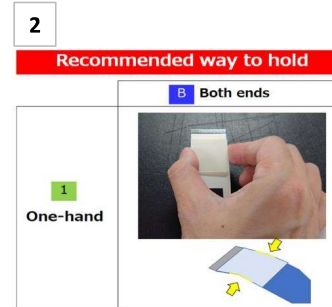
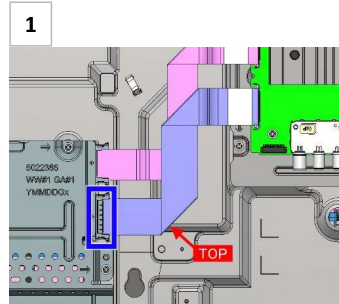
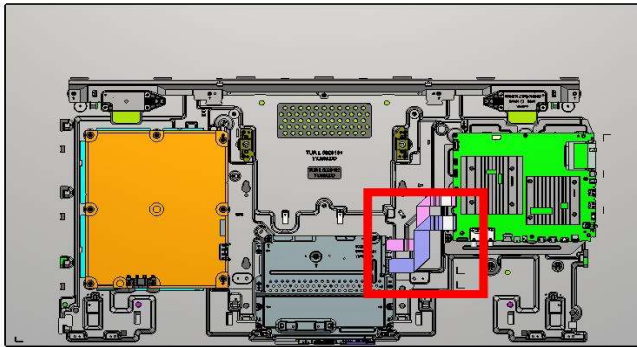


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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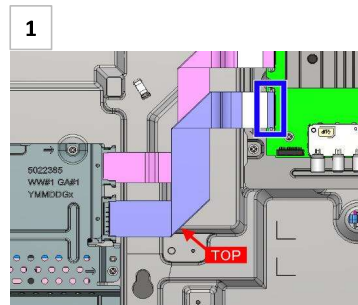
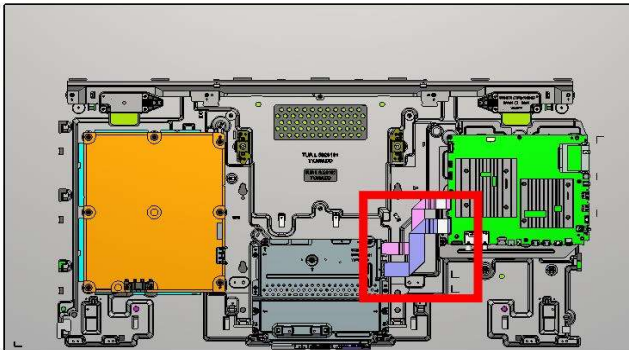
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

Connect



Connect

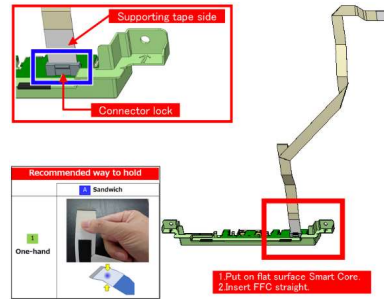
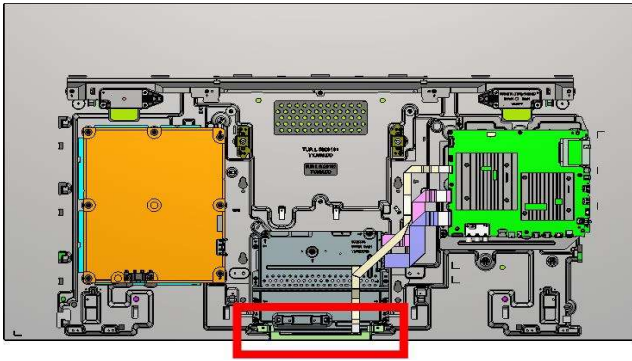


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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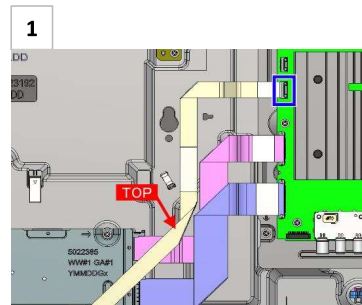
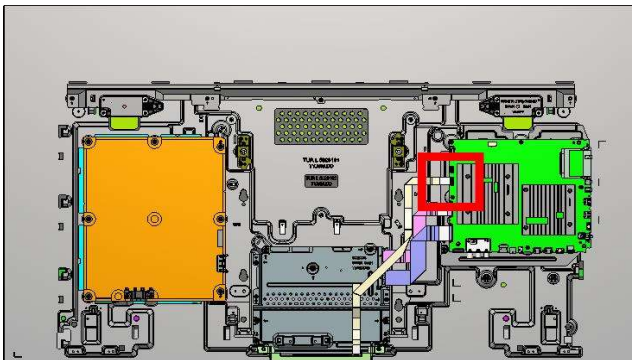
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

Connect



Connect

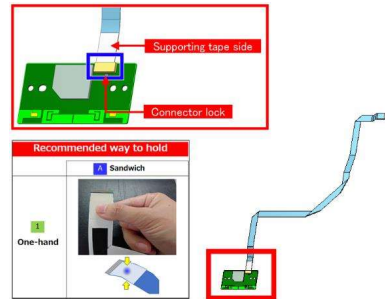
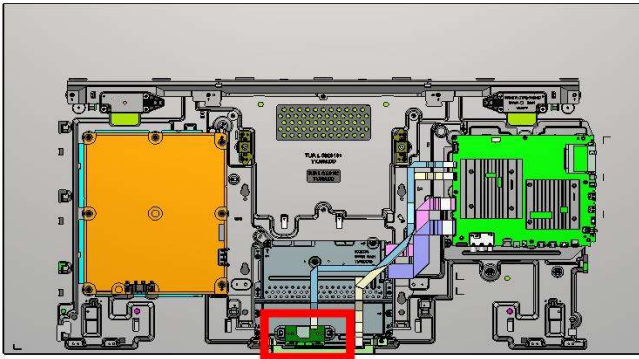


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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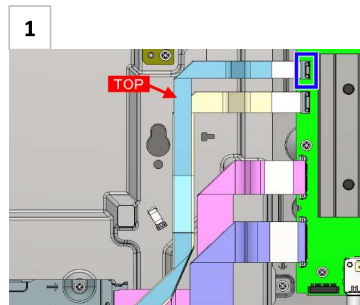
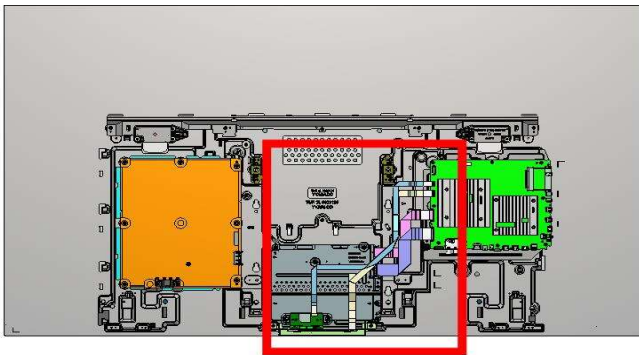
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

Connect



Connect

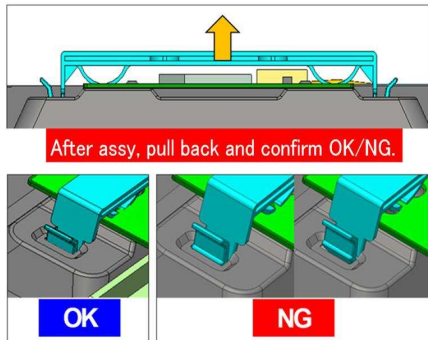


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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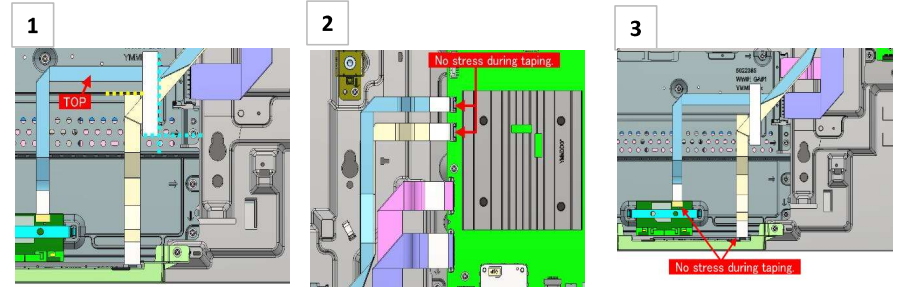
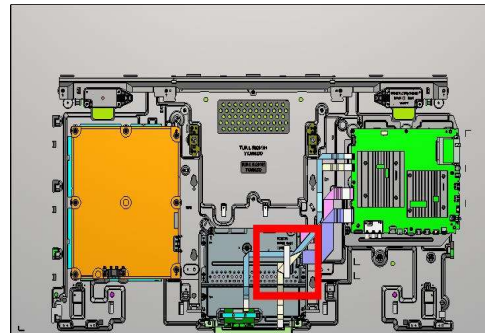
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

Information

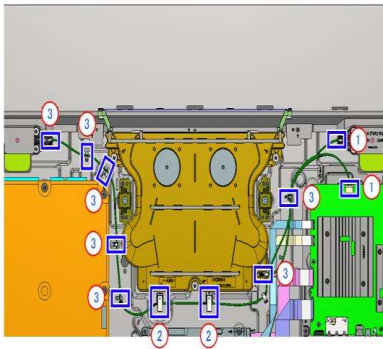


Tape

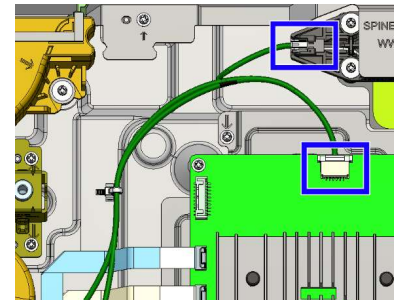
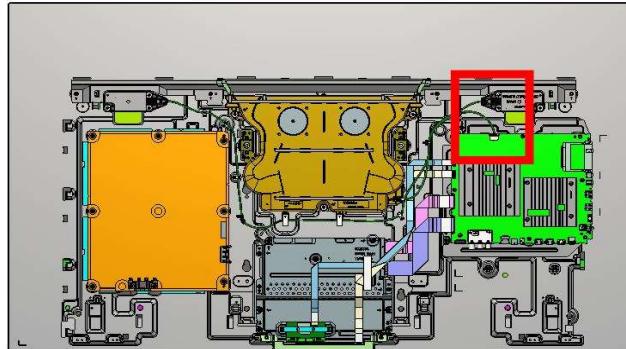


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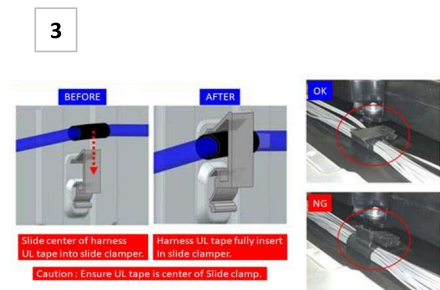
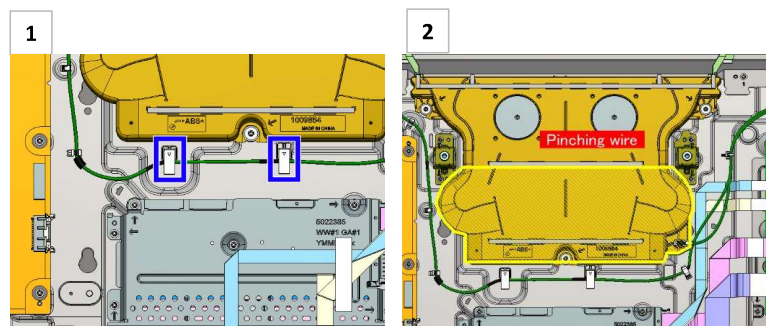
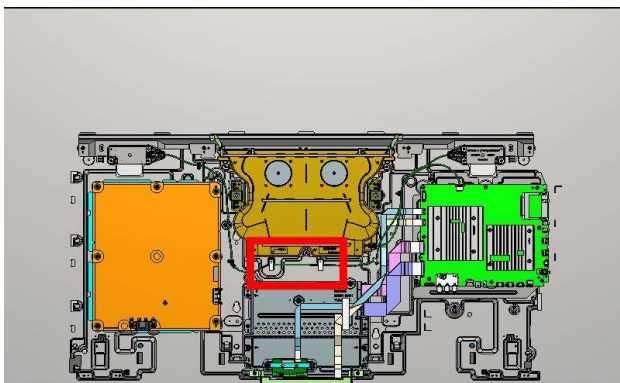
Connect



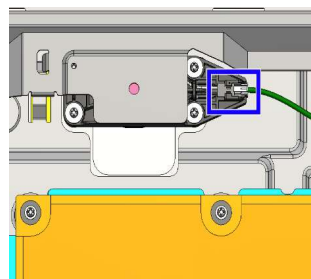
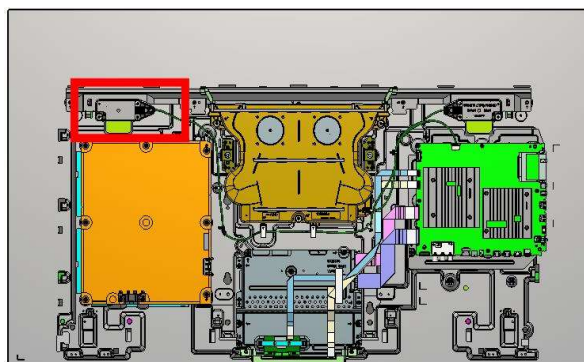
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

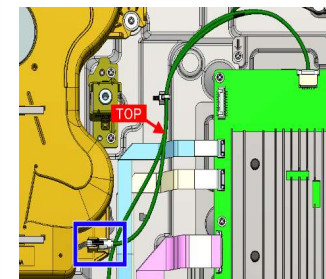
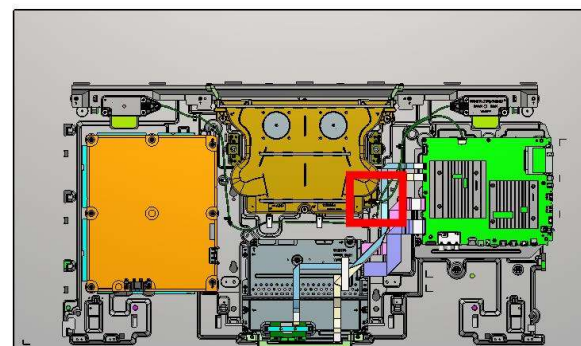
Wire Dressing



Connect



Connect

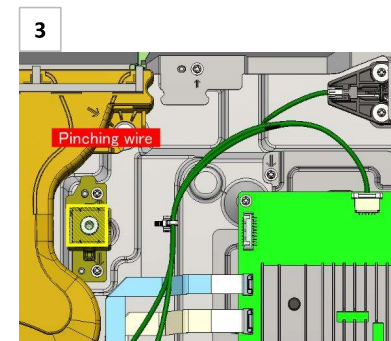
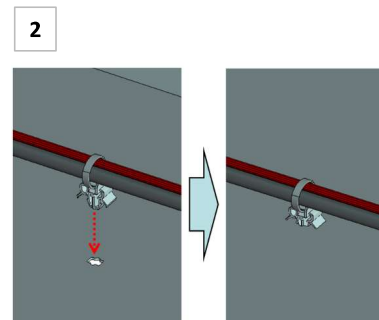
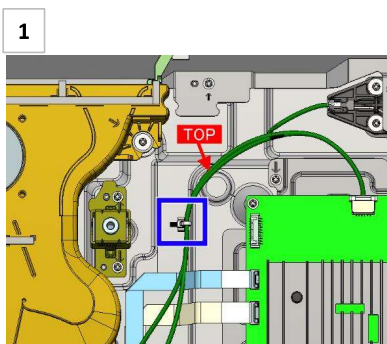
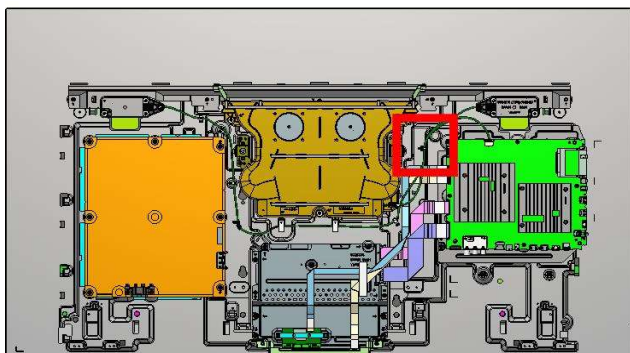


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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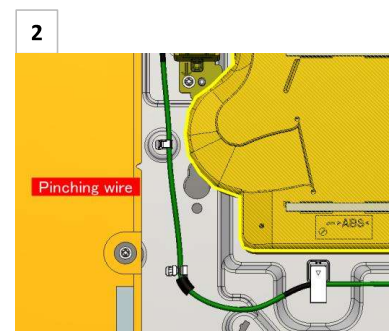
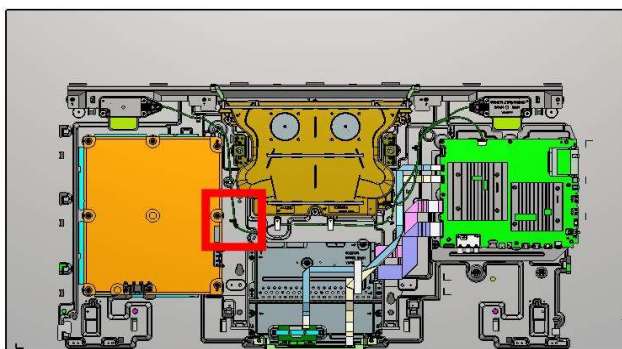
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

Wire Dressing



Wire Dressing

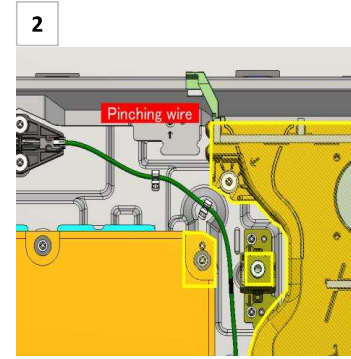
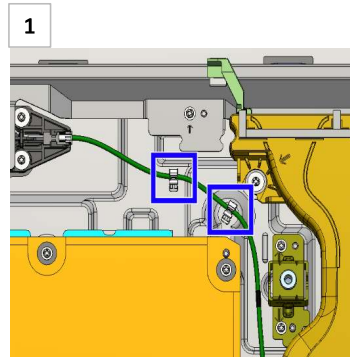
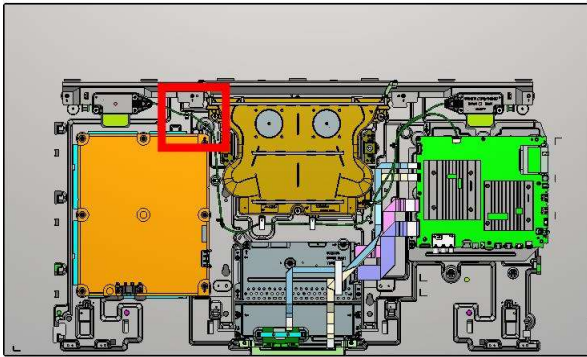


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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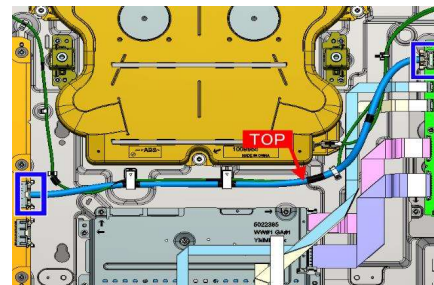
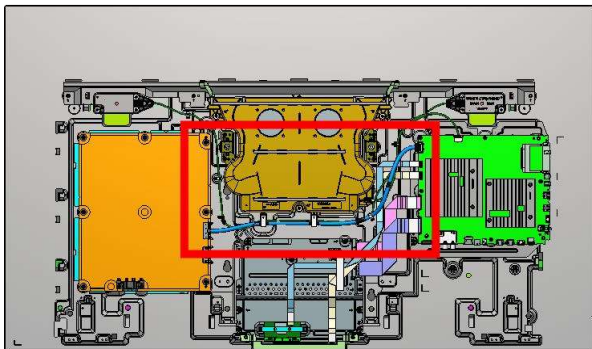
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

Wire Dressing



Connect

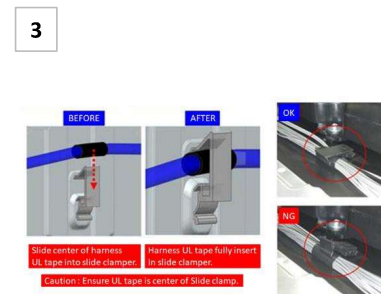
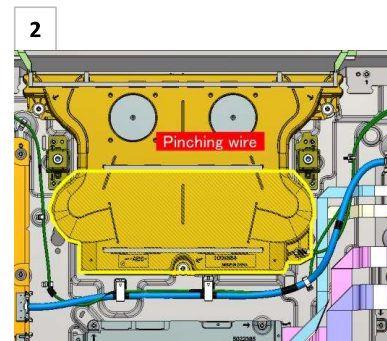
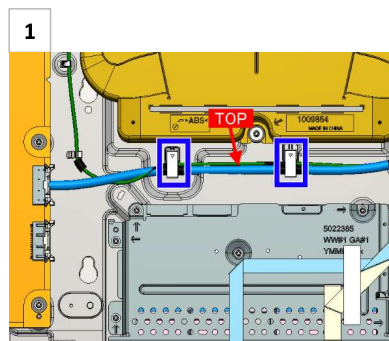
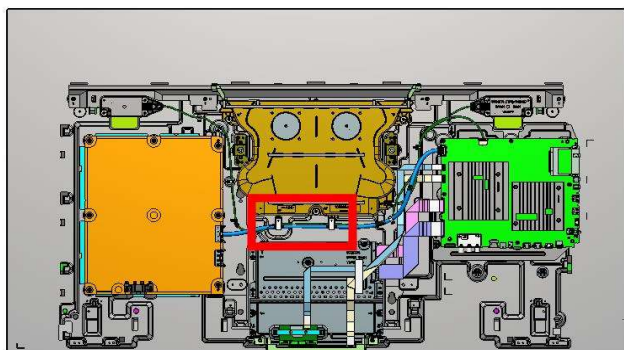


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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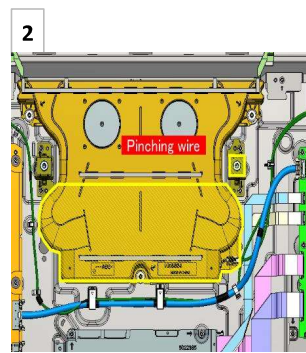
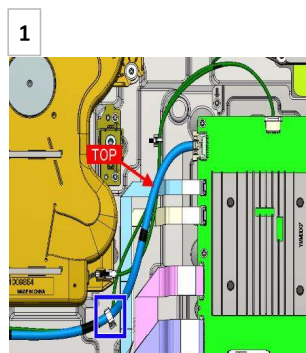
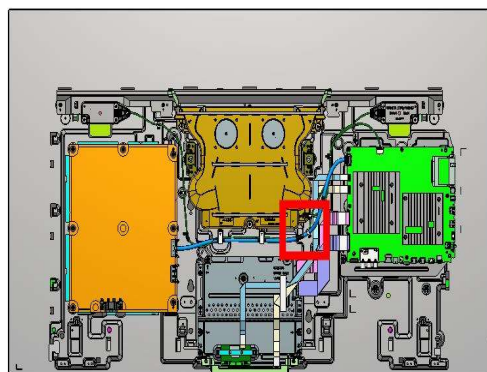
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

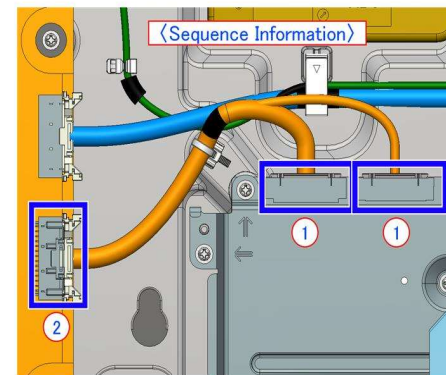
Wire Dressing



Wire Dressing



Information



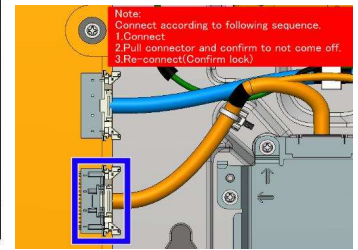
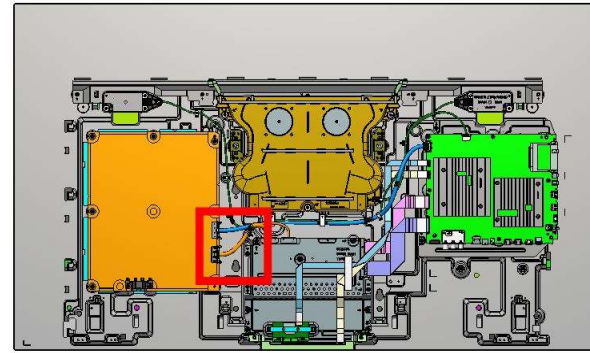
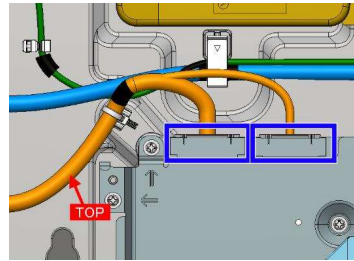
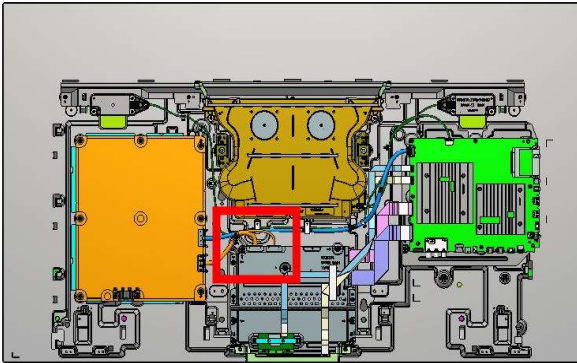
TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

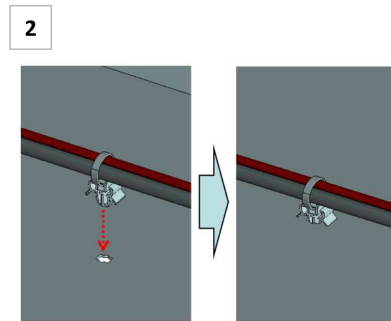
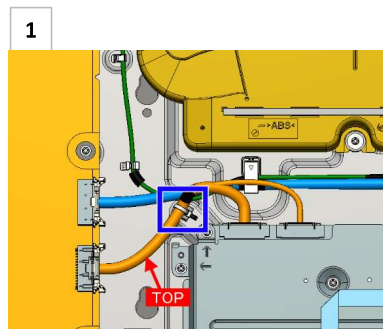
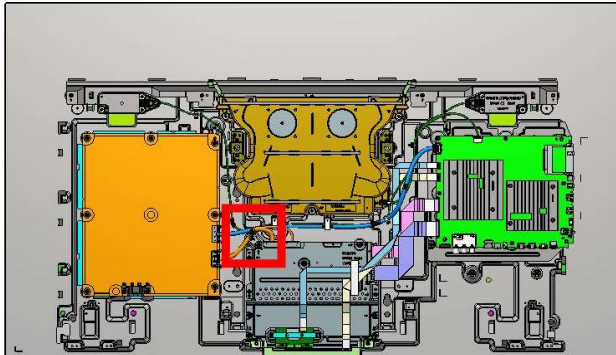
2-3. WIRE DRESSING

Connect

Connect



Wire Dressing

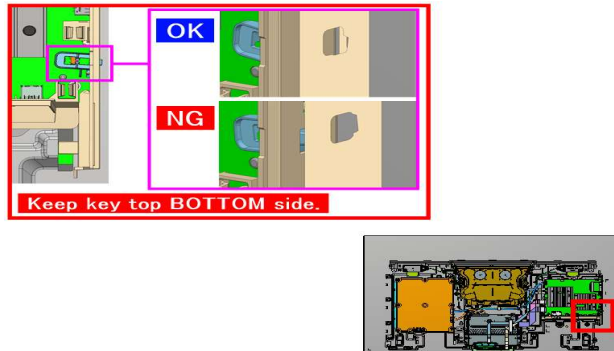


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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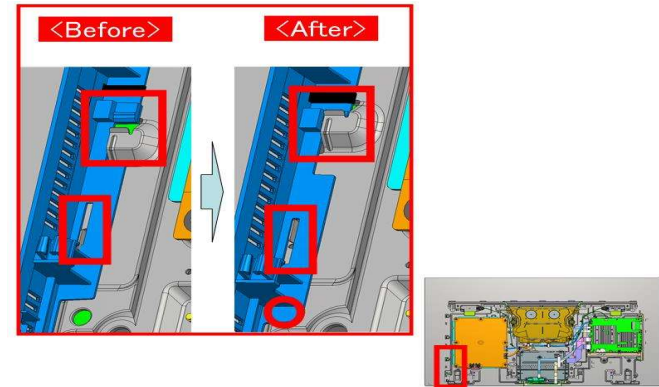
SECTION 2 XR-65A8*J

2-3. WIRE DRESSING

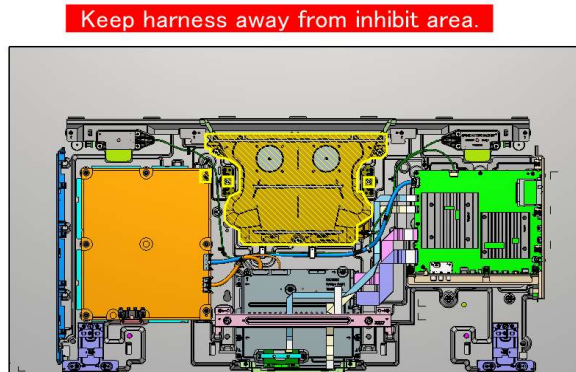
Information



Information



Information



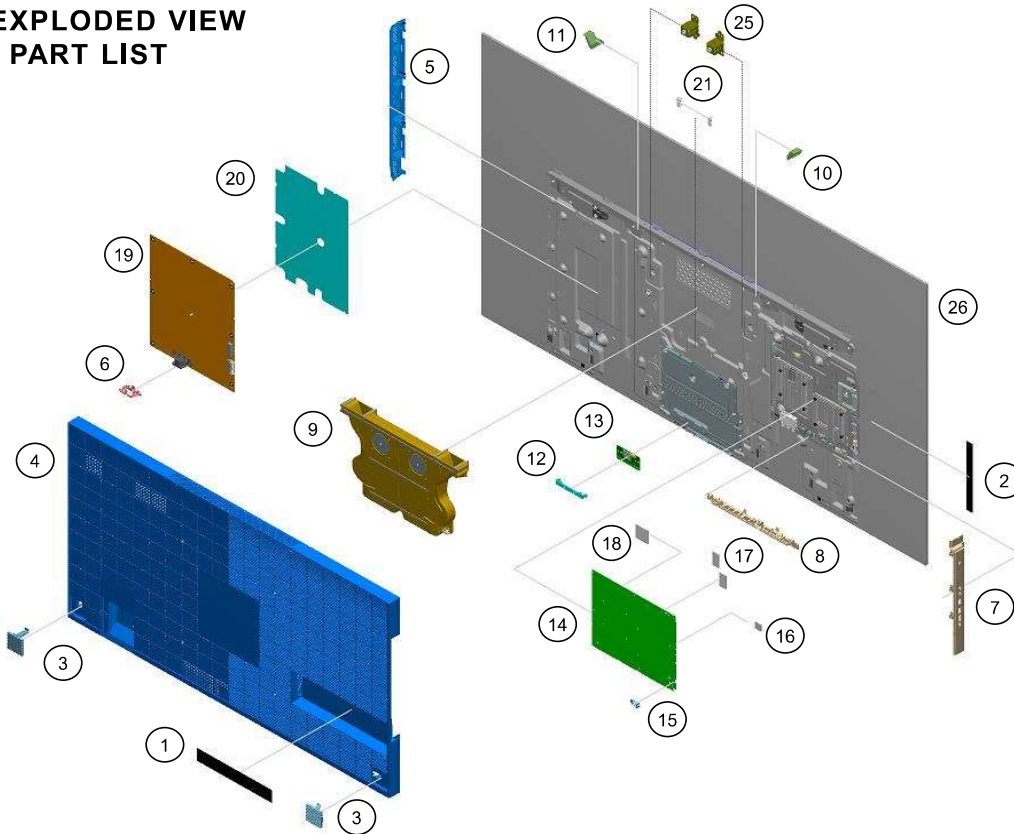
TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

- 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

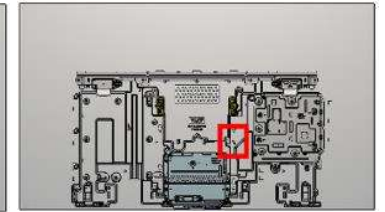
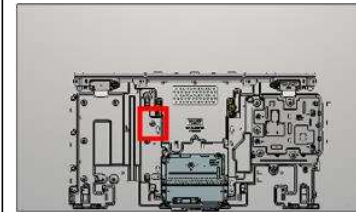
2-4 EXPLODED VIEW AND PART LIST



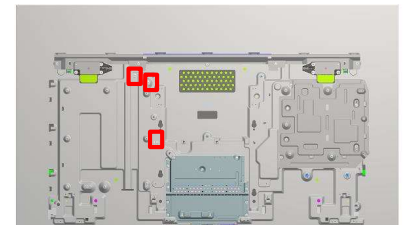
* Only on limited region / country / TV model

(22) 4-745-336-01 SLIDE, CLAMP(MINI)

(23) 2-650-770-21 SLIDE, CLAMP

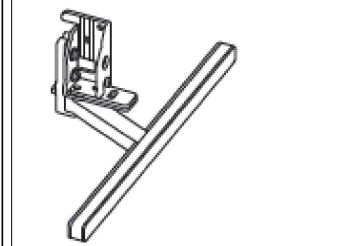


(24) 5-009-031-02 CLAMPER, CABLE S(BNN)



Stand

(27) (28)



TOOLS & EQUIPMENTS

SECTION 1



SECTION 2

SECTION 3

SMART CORE

SECTION 2 XR-65A8*J


SET PART LIST

REF. NO	PART NO.	DESCRIPTION	XR-65A80J	XR-65A80CJ
			UCM	UC2
1	5-023-597-01	LABEL, UNDER TERMINAL (BM5S21)	•	•
2	5-024-392-31	LABEL, SIDE TERMINAL (BM5S21)	•	n/a
2	5-024-392-01	LABEL, SIDE TERMINAL (BM5S21)	n/a	•
3	5-026-740-01	COVER HOOK (TUR)	•	•
4	5-027-137-01	REAR COVER (L TUR) A	•	•
5	5-027-036-01	BRACKET VENT (TUR) A	•	•
6	5-023-743-01	BRACKET, AC INLET (C18)	•	•
7	5-023-336-11	BRACKET, SIDE (TUR)	•	n/a
7	5-023-336-41	BRACKET, SIDE (TUR)	n/a	•
8	4-724-146-13	BRACKET UNDER (BM2A)	•	•
9	1-009-854-11	SP BOX ASSY, FY21 D40 SWF	•	•
10	5-026-741-01	SPACER TOP L (TUR)	•	•
11	5-026-742-01	SPACER TOP R (TUR)	•	•
12	5-009-258-21	BRACKET, WIFI(BNN)	•	•
 13	1-005-419-31	WLAN/BT MODULE(11AC)FXC	•	•
 14	A-5026-264-A	COMPL SVC BM5S21_AT_UCMX	•	n/a
 14	A 5027-461-A	COMPL SVC BM5S21_AT_UCMX_DERI	n/a	•
15	5-023-281-01	KEY, TOP(SGT)	n/a	•
16	4-699-975-02	SHEET,THERMAL(5567H)	•	•
17	5-023-557-01	SHEET THERMAL(BM5S21 DDR)	•	•
18	5-011-960-01	SHEET, THERMAL(LMN TCON)	•	•
 19	1-010-550-11	G11 - STATIC CONVERTER(TV)	•	•
20	5-023-830-11	SHT, INSULATION (TUR 2L) A	•	•
21	5-009-030-01	CLAMPER,CABLE L(BNN)	•	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

SET PART LIST

REF. NO	PART NO.	DESCRIPTION	XR-65A80J	XR-65A80CJ
			UCM	UC2
22	4-745-336-01	SLIDE, CLAMP(MINI)	•	•
23	2-650-770-21	SLIDE, CLAMP	•	•
24	5-009-031-02	CLAMPER,CABLE S(BNN)	•	•
25	*5-023-713-01	BRACKET, VESA(3L LMN)	•	•
 26	A-5026-953-A	P-MOD (YDBO065UNG01)(SVC)	•	•
27	5-023-427-01	STAND, BASE (L) (L TUR) A	•	•
28	5-023-428-01	STAND, BASE (R) (L TUR) A	•	•

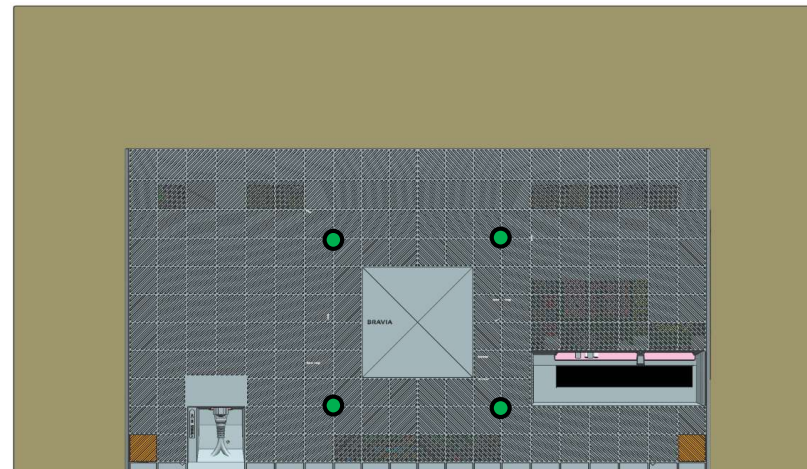
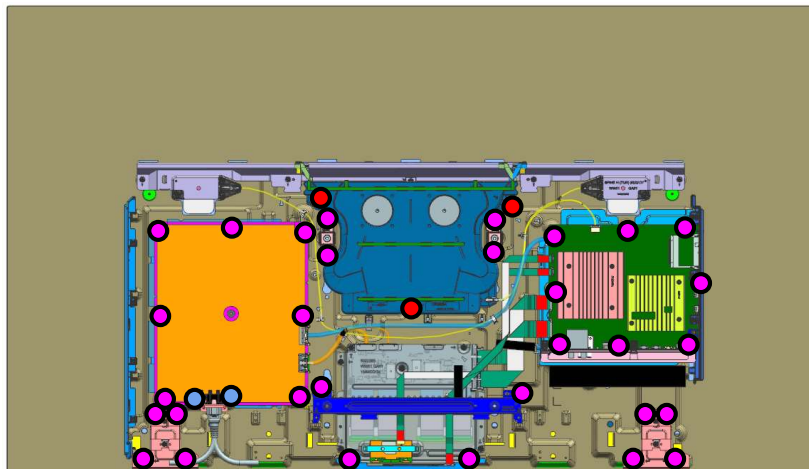
When replacing P-MOD, please also replace the following parts to new one at the same time.

- 2. LABEL, SIDE TERMINAL (BM5S21)
- 20. SHT, INSULATION (TUR 2L) A

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

SCREW

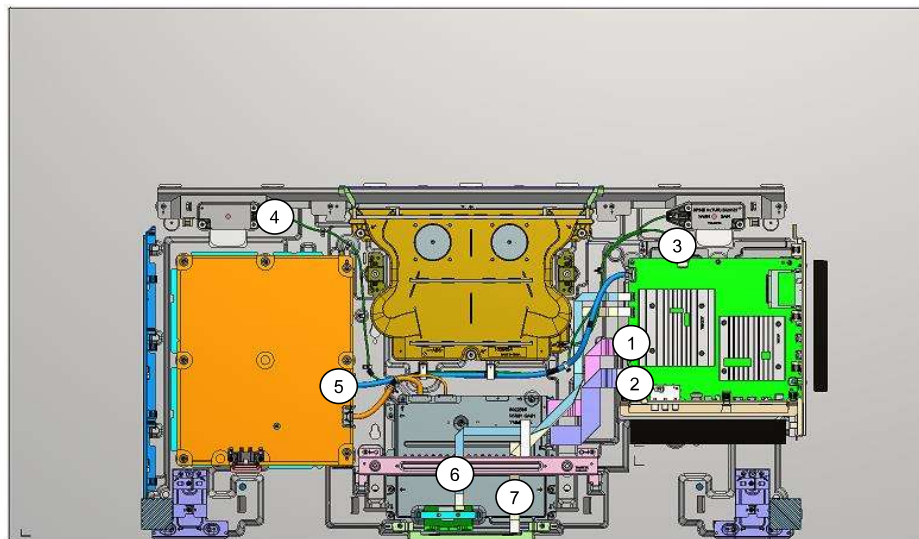


REMARK	P/N	DESCRIPTION	QUANTITY	TORQUE
●	4-268-126-02	SCREW, ORNAMENTAL M6X12	4	1.2+/-0.1(N.m)
●	4-472-518-11	SCREW, +PSW M3x6	31	0.4+/-0.05
●	4-256-393-12	PSW M3x6 W12	3	0.4+/-0.05
●	7-682-948-09	SCREW, +PSW M3X8	2	0.4+/-0.05

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

CONNECTOR




REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-010-634-11	FLEXIBLE FLAT CABLE 41P	CN6801(B)-CN7(TCON)(1)
2	1-010-636-11	FLEXIBLE FLAT CABLE 51P	CN6800(B)-CN5(TCON)(1)
3	1-010-577-11	CONNECTOR ASSY 20P	CN6401(PUSU)-CN1700(B)(1)
4	1-010-578-11	CONNECTOR ASSY 6P	CN6613(B)-SP(1)
5	1-010-579-11	CONNECTOR ASSY 28P	CN6601(PUSU)-CN8(TCON)-CN6(TCON)(1)
6	1-010-629-11	FLEXIBLE FLAT CABLE 20P	CN3803(B)-BT(1)
7	1-010-631-11	FLEXIBLE FLAT CABLE 25P	CN1200(B)-CN102(H)(1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 2 XR-65A8*J

OTHER PARTS

PART NO.	DESCRIPTION	XR-65A80J	XR-65A80CJ
		UCM	UC2
4-535-064-61	ASSY,FALL LOCK,BELT LL	.	.
4-262-708-04	CLAMPER, CABLE	.	.
 1-836-883-12	POWER-SUPPLY CORD	.	.
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	.	.
5-026-348-11	REFERENCE GUIDE	.	.
5-026-350-11	SETUP GUIDE	.	.
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	.	.

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 3 XR-77A8*J

3-1. DISASSEMBLY AND REMOVAL CAUTION

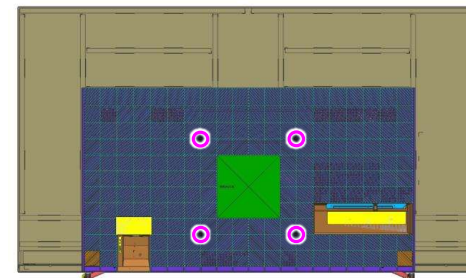
Rear Cover

1. Remove Screw

Take out screws below to open the rear cover :

- SCREW, ORNAMENTAL M6X12 (4pcs)

* Note : See page 67 for more screw info



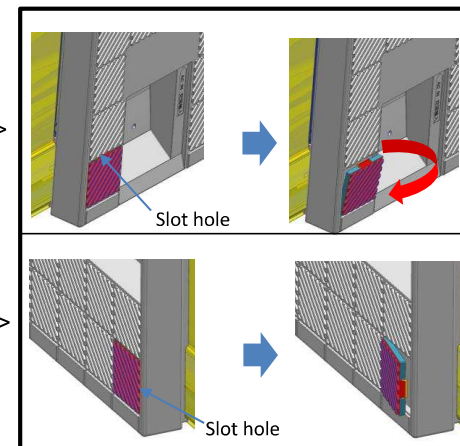
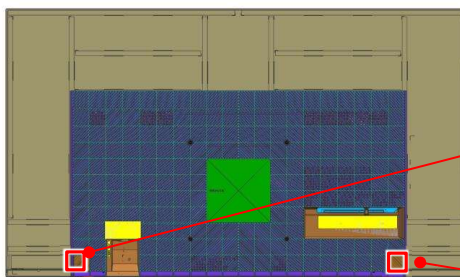
2. Remove Cover Hook

- Location of cover hook

* Note : Washer or coin to unhook Cover Hook
 - Wrap washer in VA tape (15mm X 55mm)
 - Thickness approximately 1.5mm

<1> Left side,

<2> Right side



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.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 3 XR-77A8*J


3-1. DISASSEMBLY AND REMOVAL CAUTION

Rear Cover

3. Remove Rear Cover

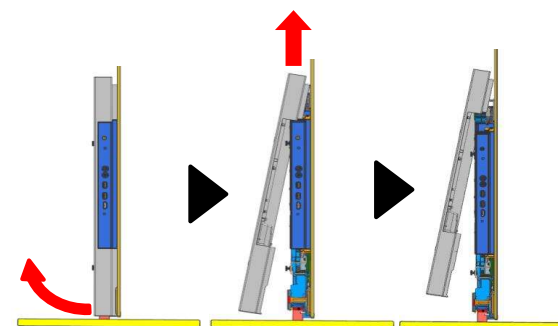
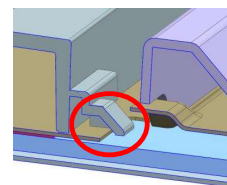
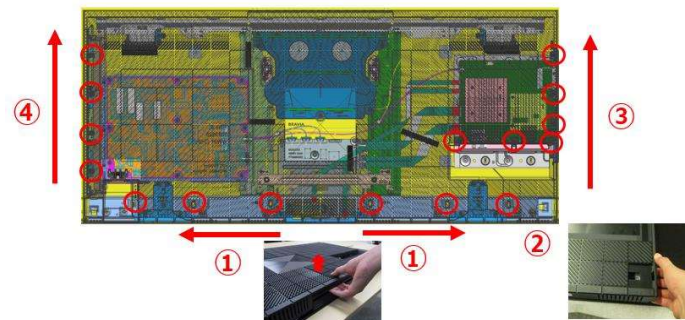
1.  Unlock Rear Cover hook : 16 places

 Hook position : 9 places

 Caution:
Top side has some hooks. Don't open Rear Cover fully.

2. Pull the Rear Cover.

3. Push Rear Cover upwards to release the top hooks
⇒Refer to the next page for the detail method.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 3 XR-77A8*J

3-1. DISASSEMBLY AND REMOVAL CAUTION

Rear Cover

3. Remove Rear Cover

1. Pull Rear Cover bottom center until hook release sound is heard.
2. Pull Rear Cover corner until hook release sound is heard.

* Note :

- <1> See from the bottom
- <2> Right side from back view

3. Pull the right side until hook release sound is heard.

4. Pull Rear Cover corner until hook release sound is heard.

* Note :

- <2> Right side from back view
- <3> Left side from back view

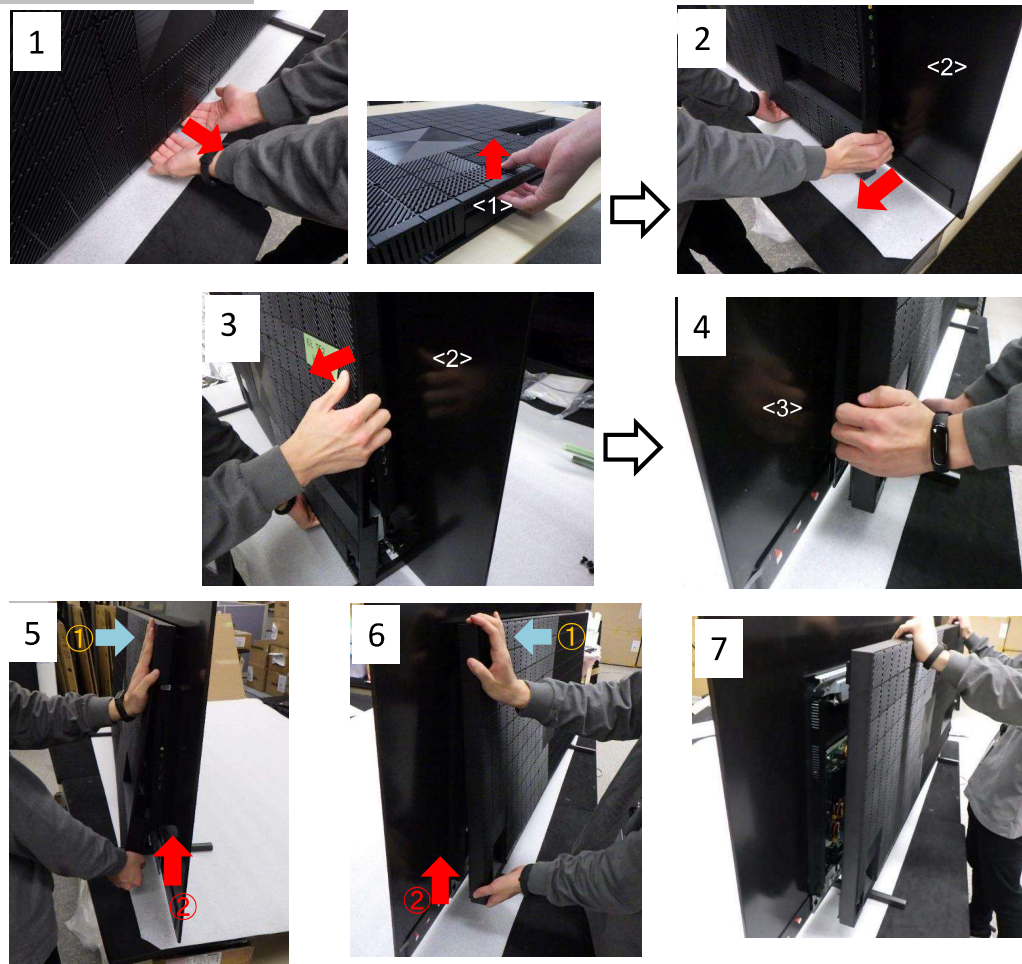
5. Holds the right of Rear Cover

- ⇒ ① Push the upper side of Rear Cover
- ⇒ ② Push up the bottom of Rear Cover

6. Hold the left of Rear Cover.

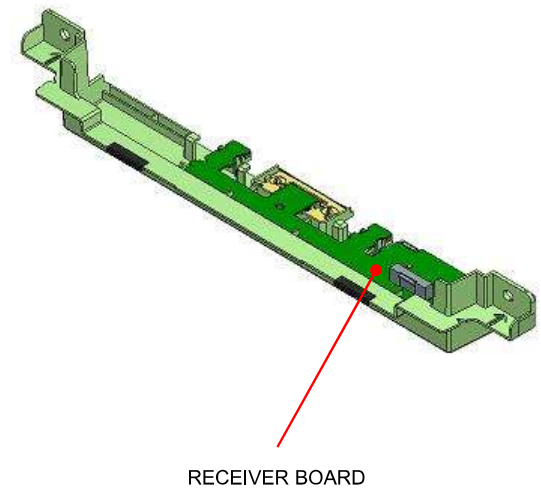
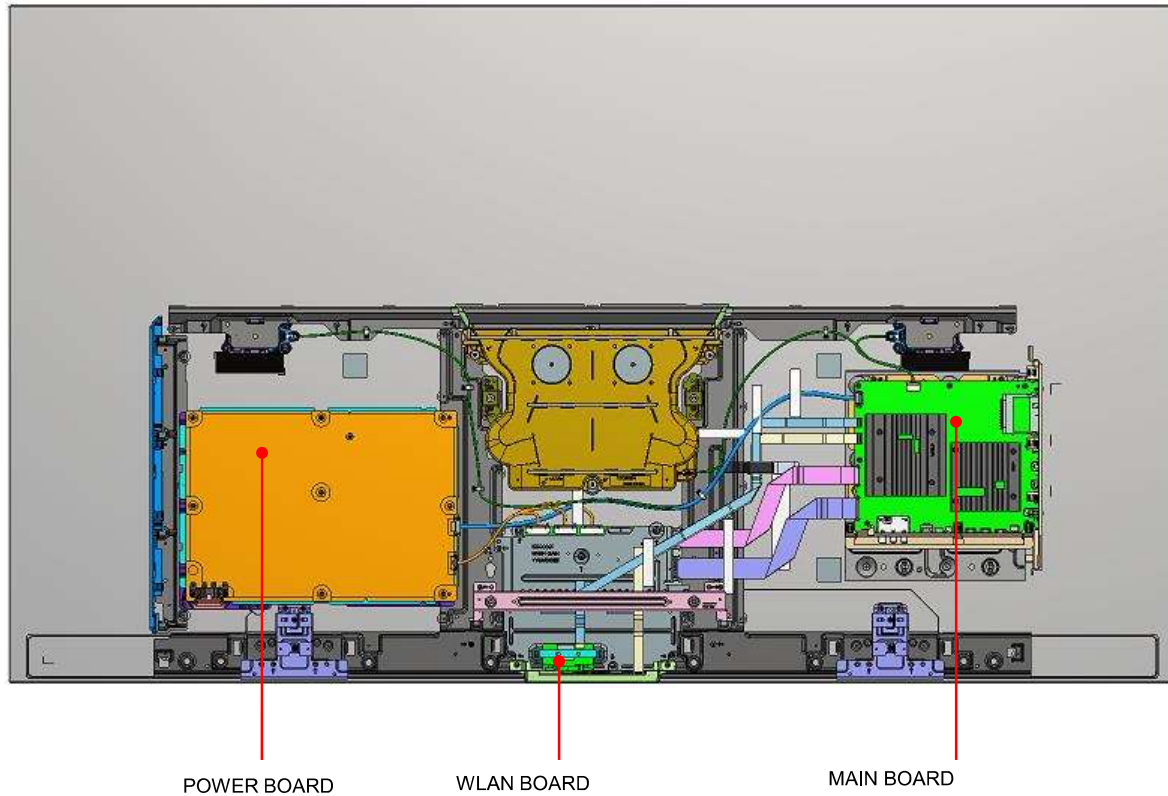
- ⇒ ① Push the upper side of Rear Cover
- ⇒ ② Push up the bottom of Rear Cover

7. Pull up Rear Cover



SECTION 3 XR-77A8*J

3-2. BOARD LOCATION

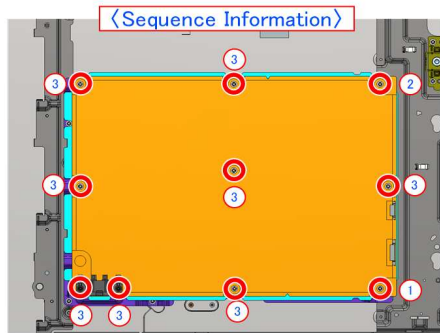


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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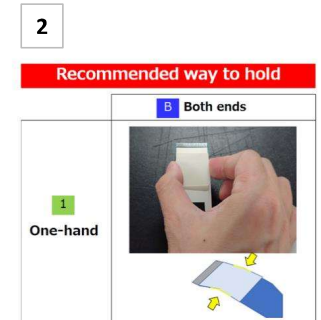
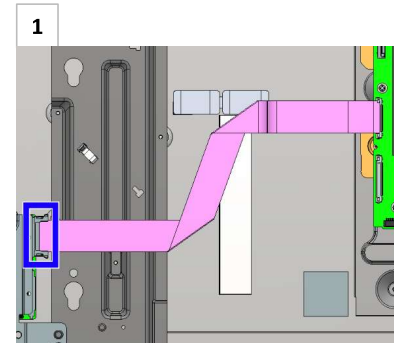
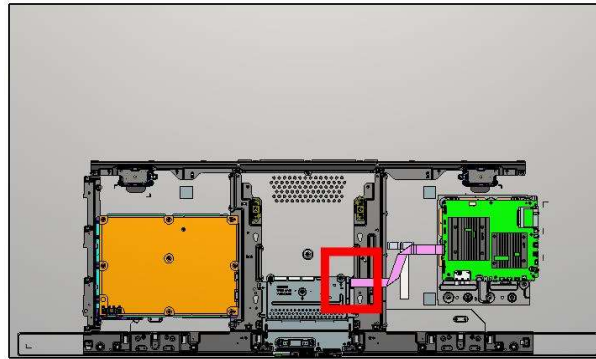
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

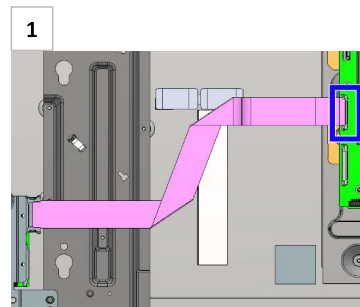
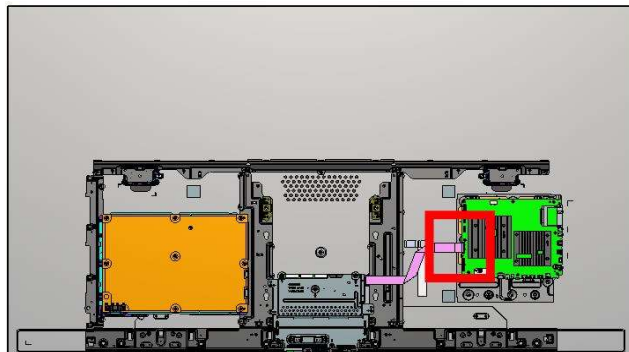
Information



Connect



Connect

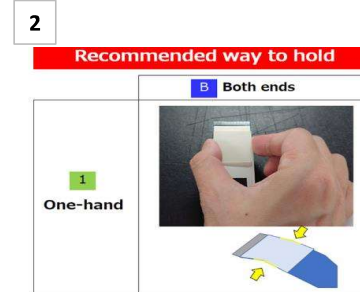
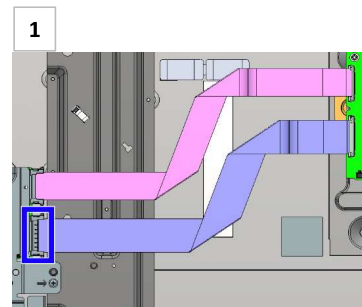
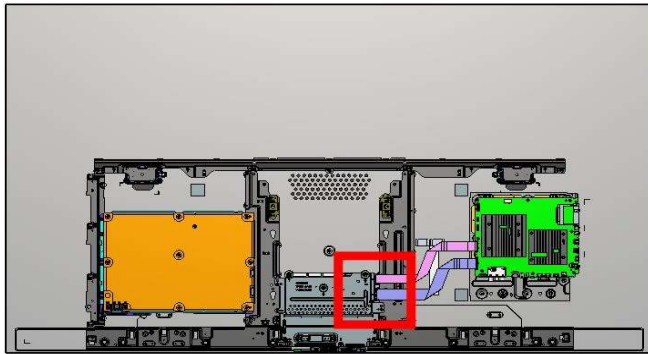


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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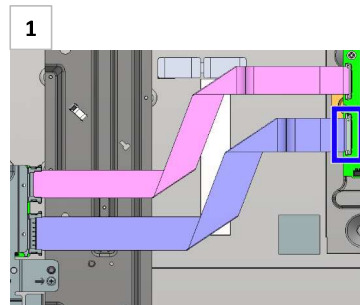
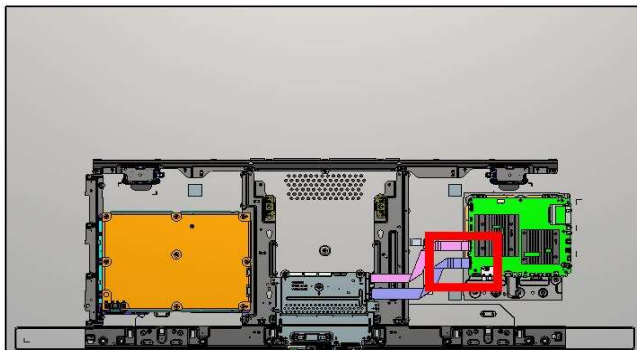
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

Connect



Connect

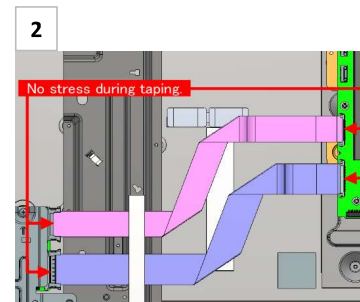
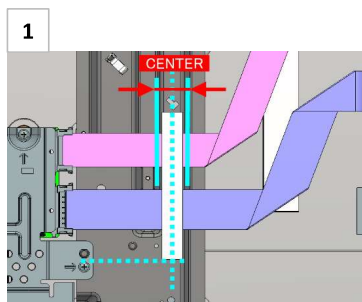
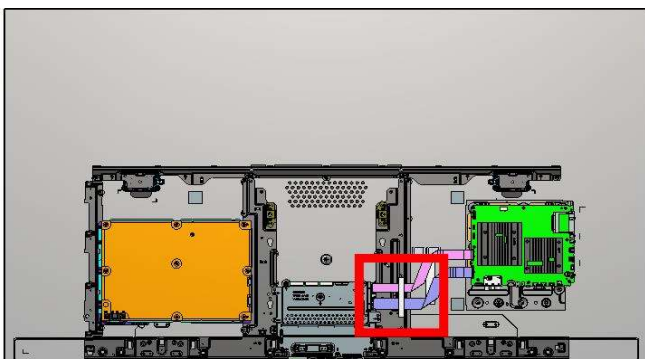


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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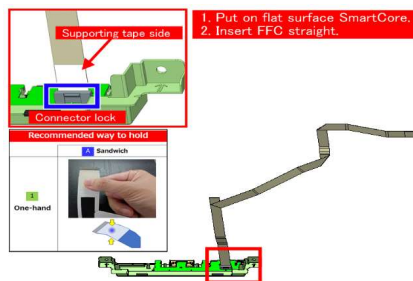
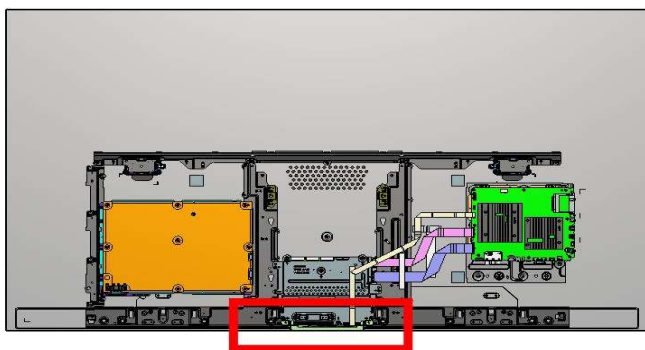
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

Tape



Connect

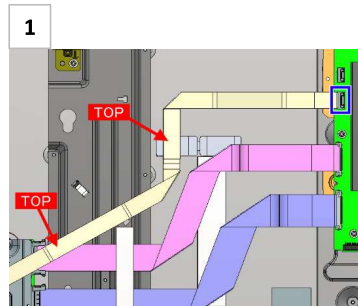
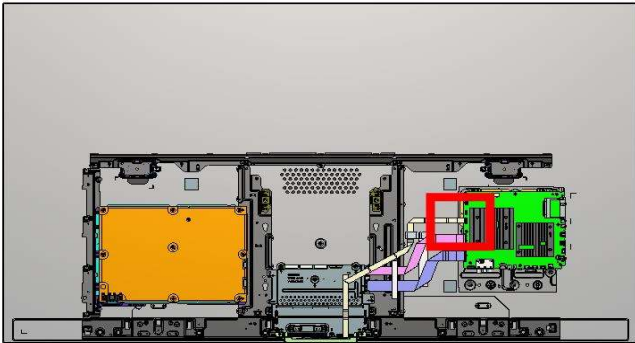


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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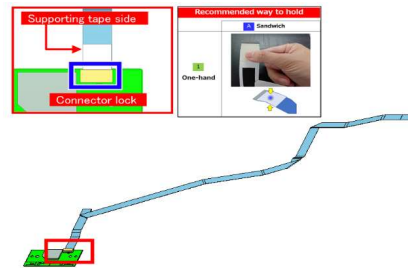
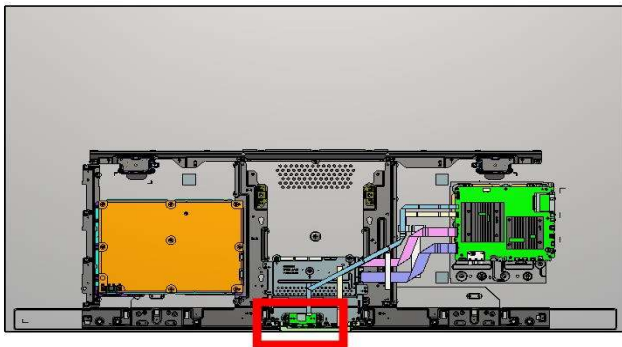
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

Connect



Connect

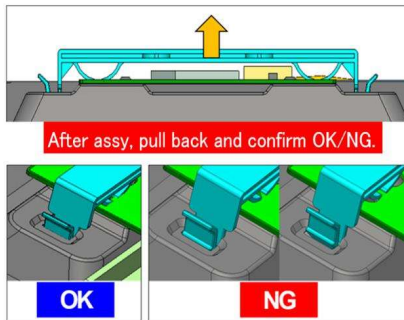


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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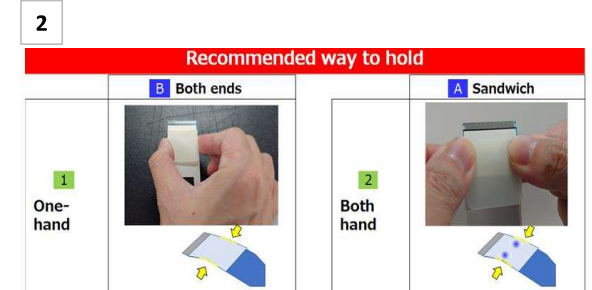
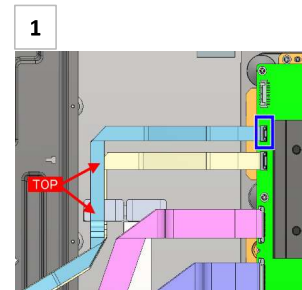
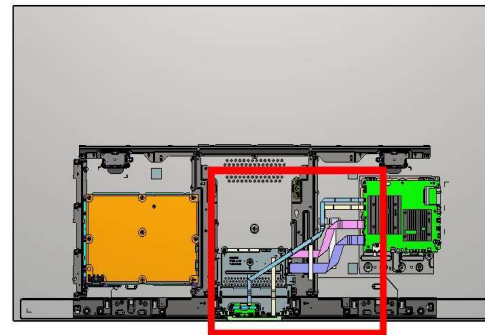
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

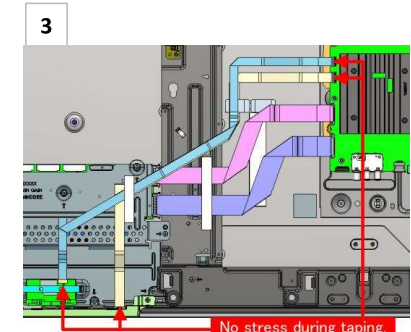
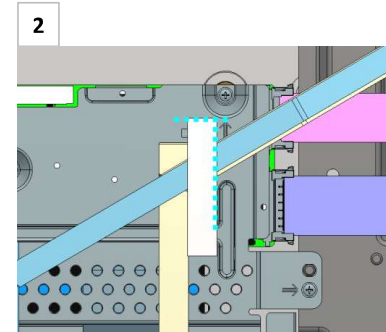
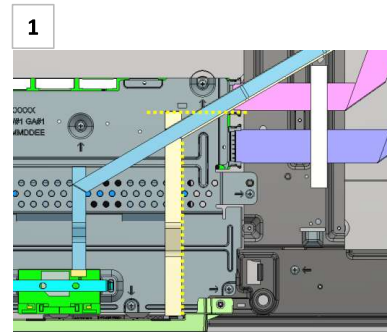
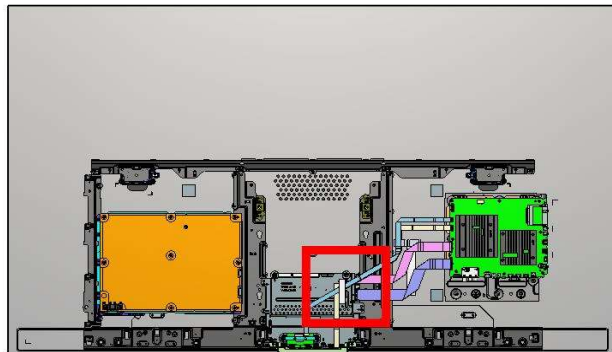
Information



Connect



Tape

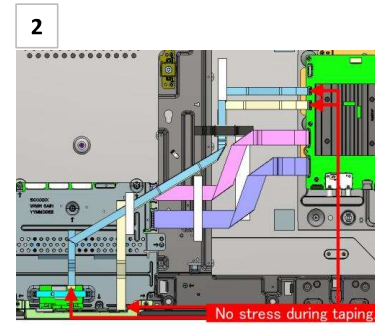
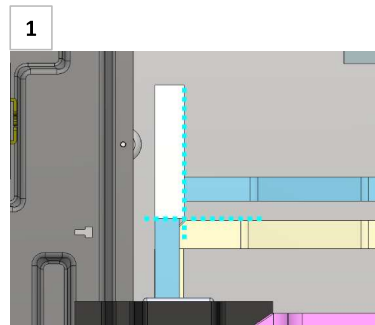
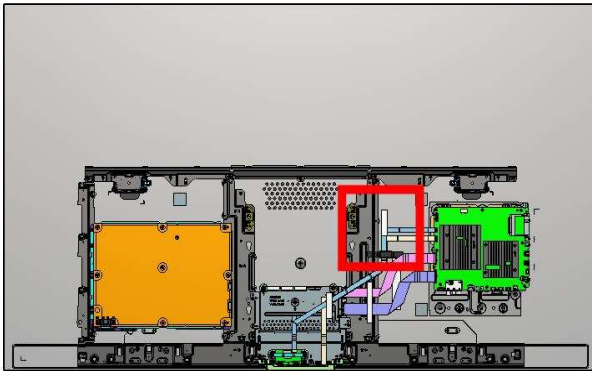


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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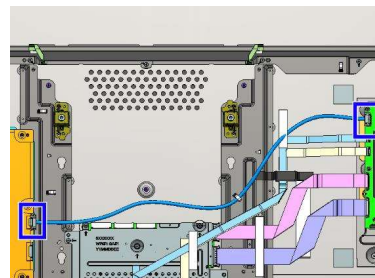
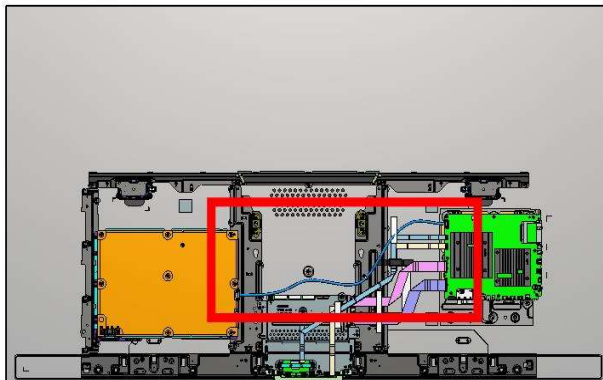
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

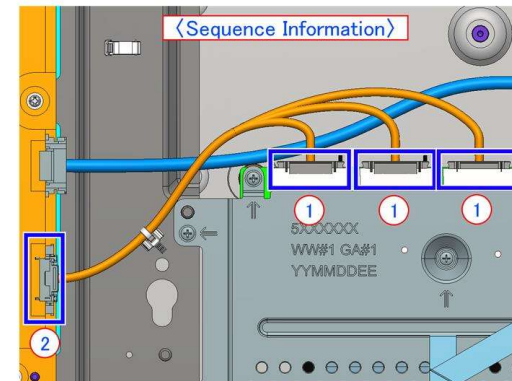
Tape



Connect



Information

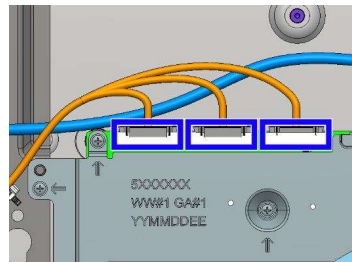
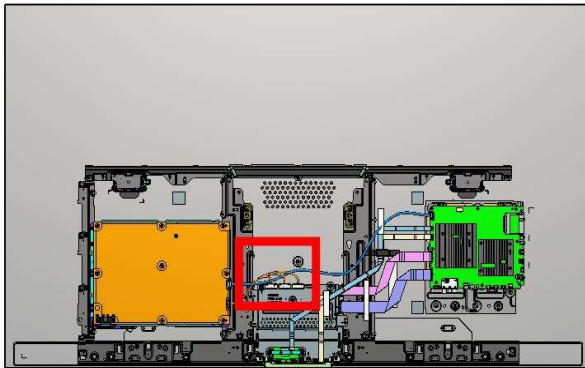


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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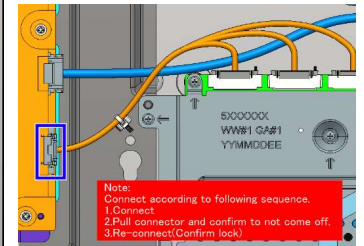
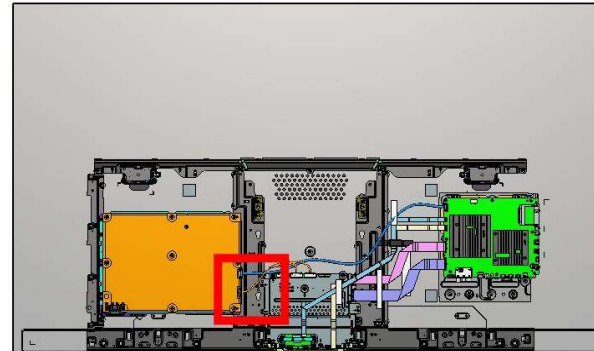
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

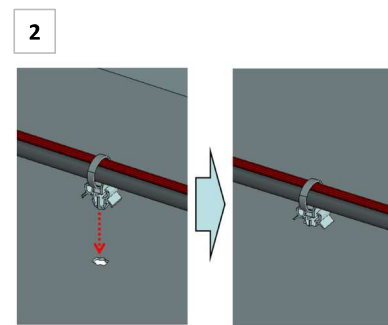
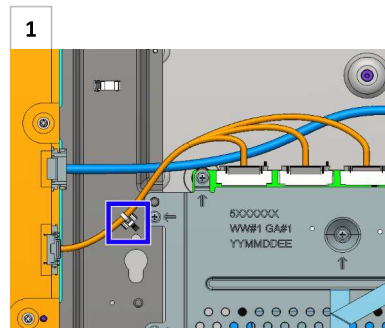
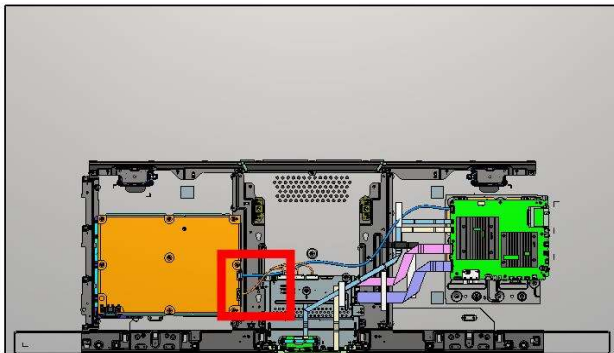
Connect



Connect



Wire Dressing

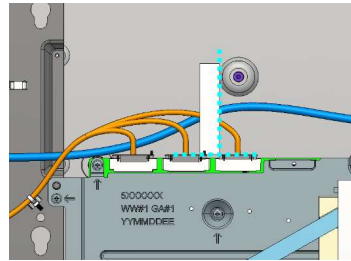
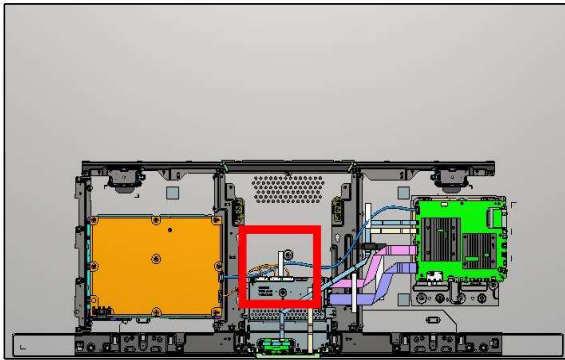


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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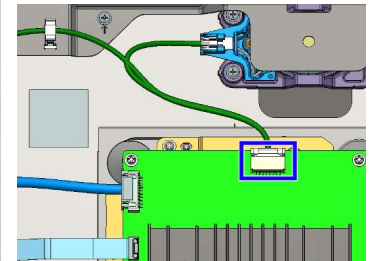
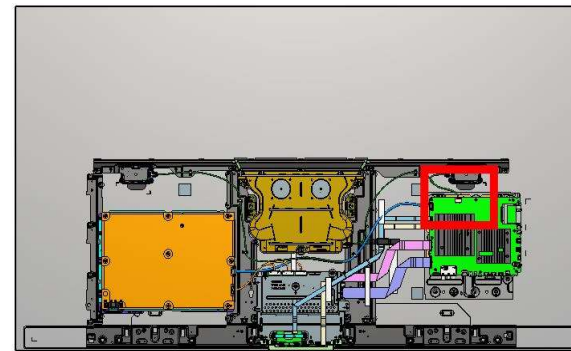
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

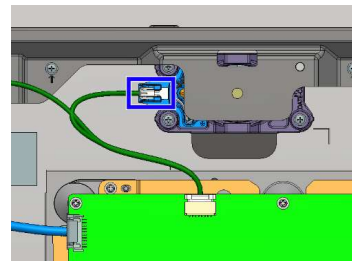
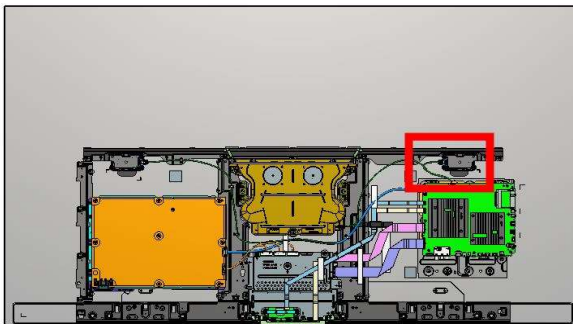
Tape



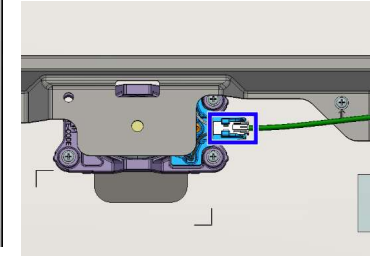
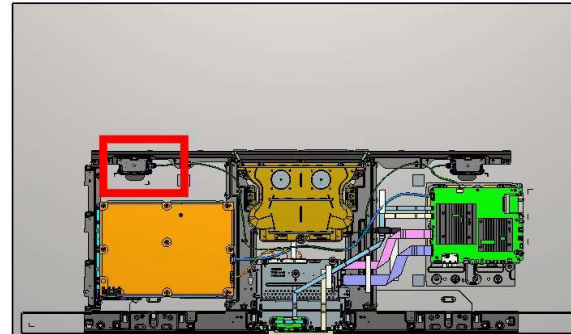
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Connect



Connect

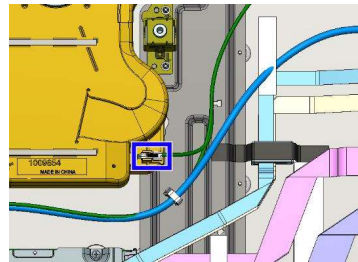
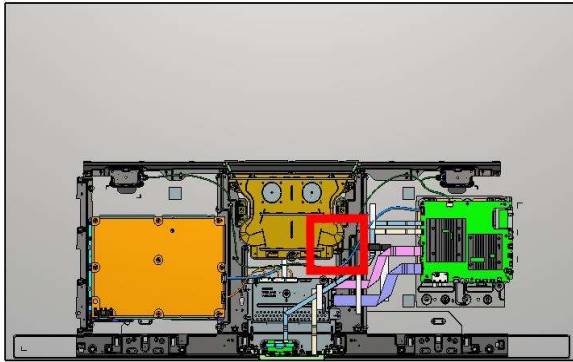


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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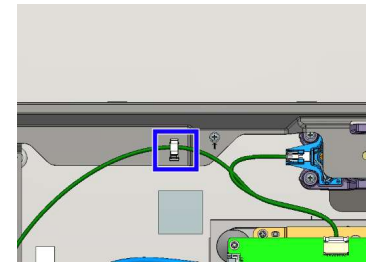
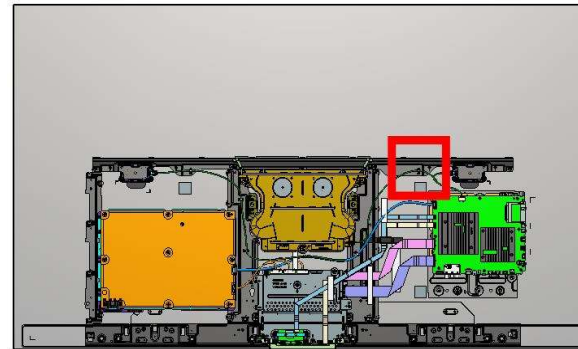
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

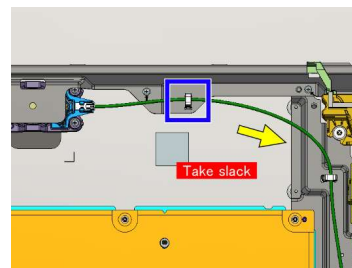
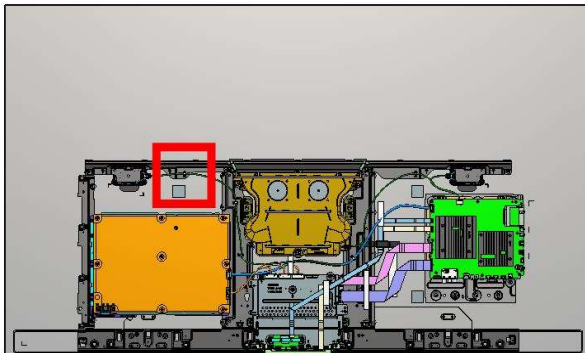
Connect



Wire Dressing



Wire Dressing



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

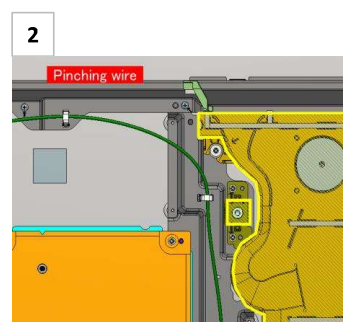
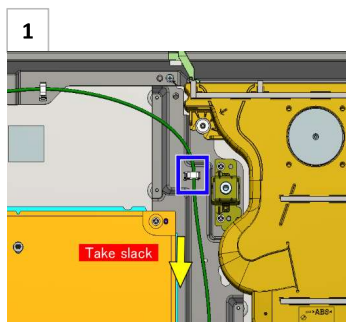
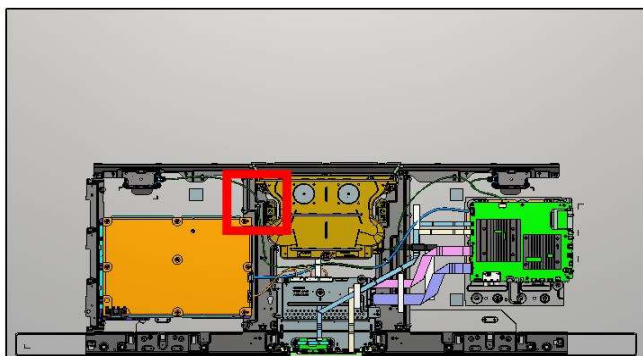
SECTION 3

SMART CORE

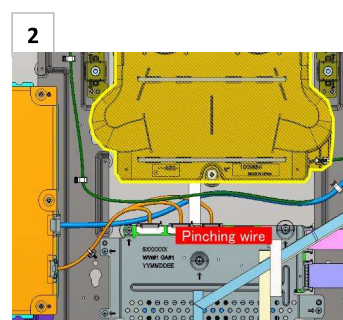
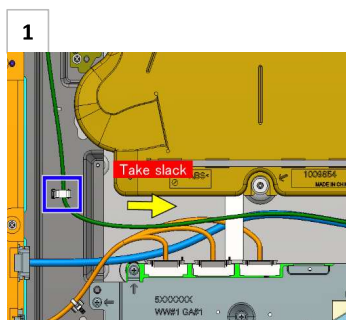
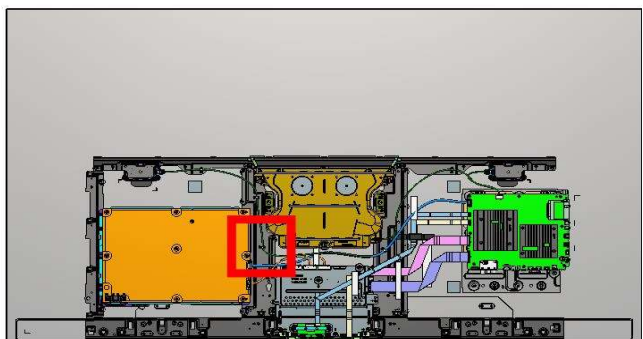
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

Wire Dressing



Wire Dressing

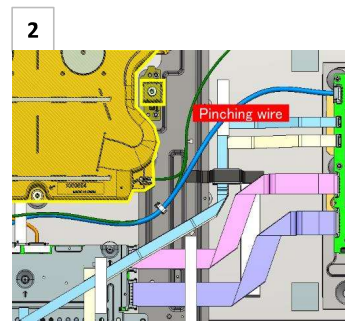
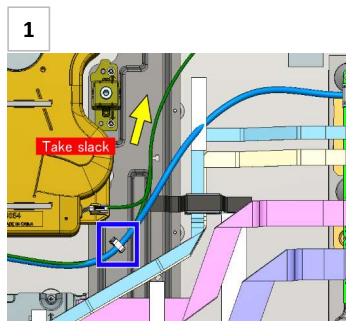
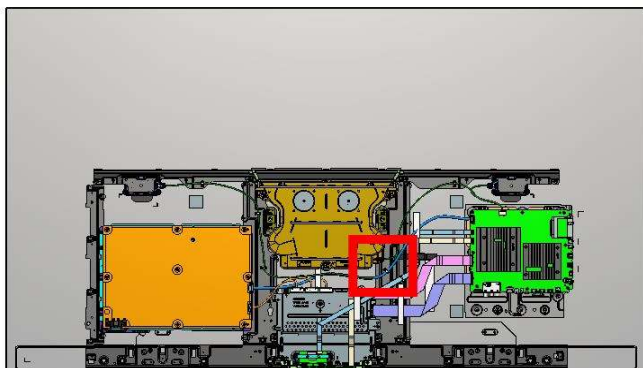


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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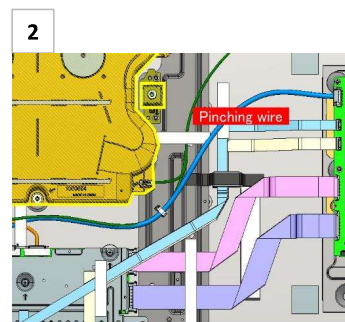
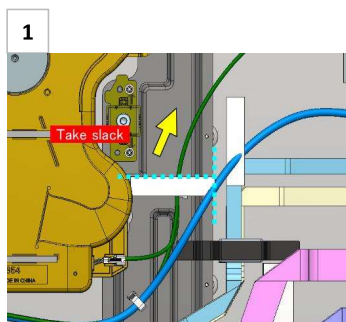
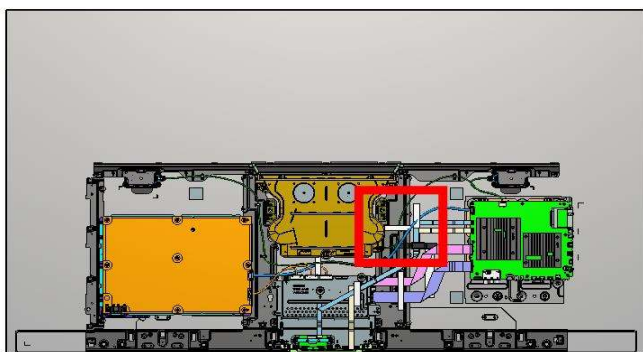
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

Wire Dressing



Tape

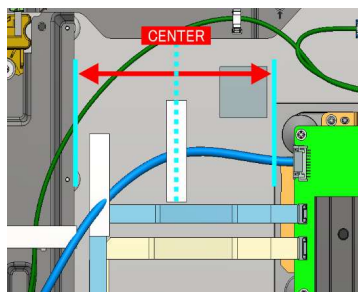
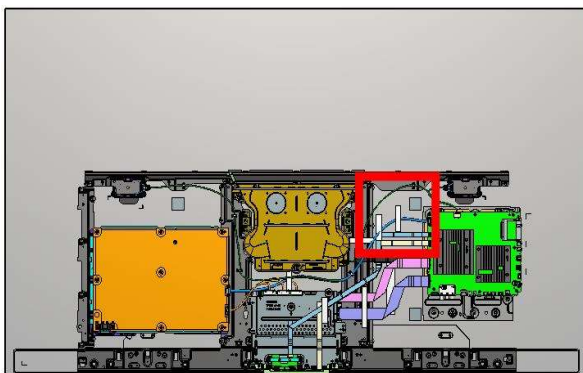


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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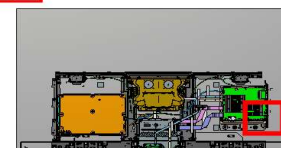
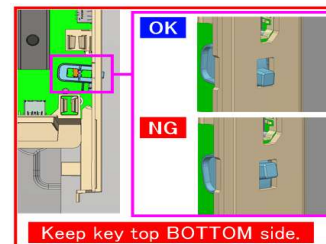
SECTION 3 XR-77A8*J

3-3. WIRE DRESSING

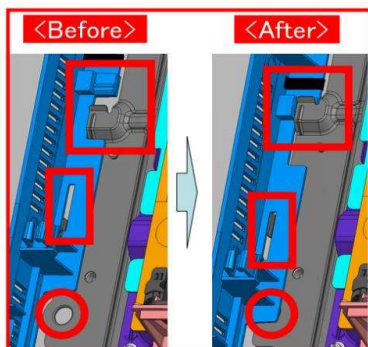
Tape



Information



Information





Information



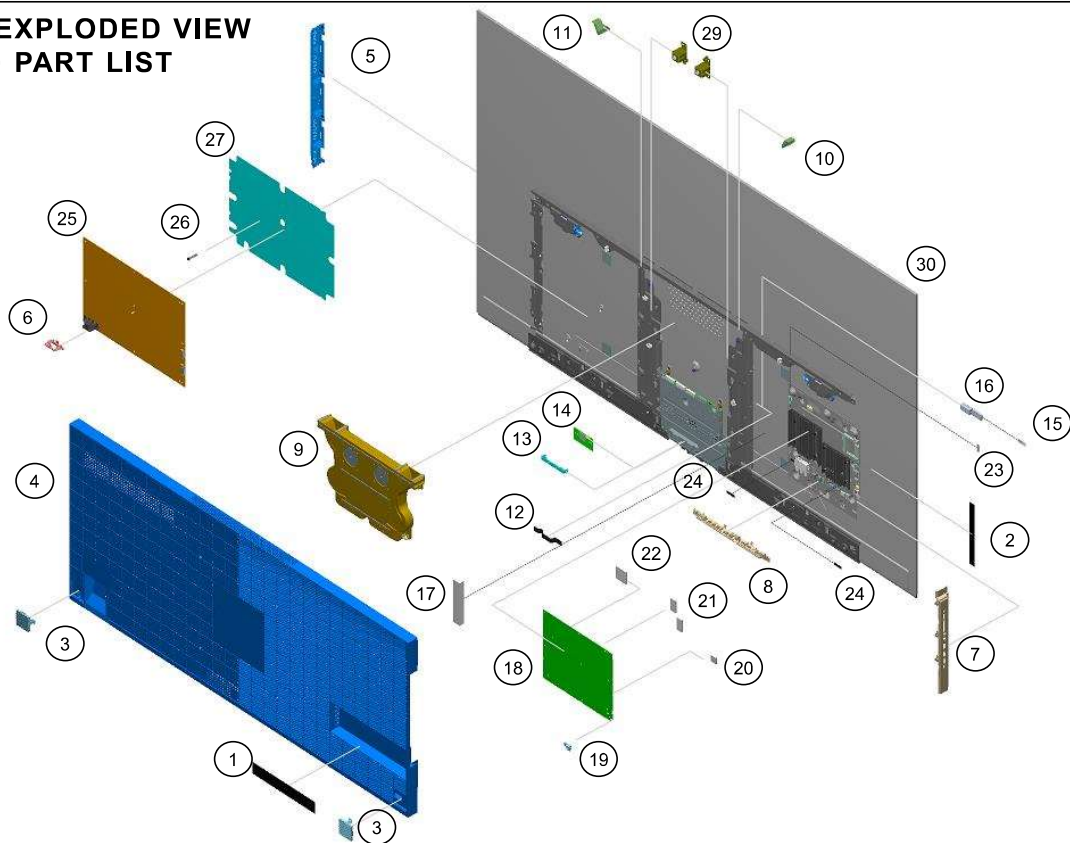
TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 3 XR-77A8*J

- 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

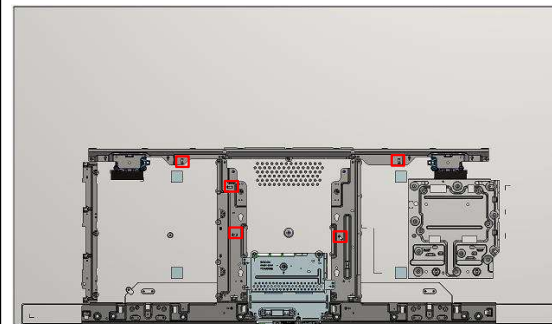
- \ (*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.
- \ Picture provided in this section might have slight difference from the actual sets.
- \ The reference number beside the part indicates the disassembly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

3-4 EXPLODED VIEW AND PART LIST



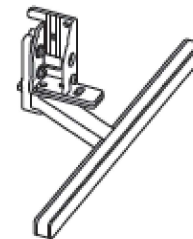
* Only on limited region / country / TV model

28 265077021 SLIDE, CLAMP (5pcs)



Stand

31 32



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SMART CORE

SECTION 3 XR-77A8*J



SET PART LIST

REF. NO	PART NO.	UCM	XR-77A80J	XR-77A80CJ
			UCM	UC2
1	5-023-597-01	LABEL, UNDER TERMINAL (BM5S21)	•	•
2	5-024-392-31	LABEL, SIDE TERMINAL (BM5S21)	•	n/a
2	5-024-392-01	LABEL, SIDE TERMINAL (BM5S21)	n/a	•
3	5-026-740-01	COVER HOOK (TUR)	•	•
4	5-024-846-01	REAR COVER (3L TUR) A	•	•
5	5-027-036-01	BRACKET VENT (TUR) A	•	•
6	5-023-743-01	BRACKET, AC INLET (C18)	•	•
7	5-023-336-11	BRACKET, SIDE (TUR)	•	n/a
7	5-023-336-41	BRACKET, SIDE (TUR)	n/a	•
8	4-724-146-13	BRACKET UNDER (BM2A)	•	•
9	1-009-854-11	SP BOX ASSY, FY21 D40 SWF	•	•
10	5-026-741-01	SPACER TOP L (TUR)	•	•
11	5-026-742-01	SPACER TOP R (TUR)	•	•
12	5-025-864-01	CUSHION 1525A	•	•
13	5-009-258-21	BRACKET, WIFI(BNN)	•	•
 14	1-005-419-31	WLAN/BT MODULE(11AC)FXC	•	•
15	5-027-886-01	CUSHION FFC (TUR 3L)	•	•
16	1-011-659-11	CORE, FERRITE	•	•
17	5-028-143-01	DOUBLE SIDE TAPE FOR FC S	•	•
 18	A-5027-462-A	COMPL SVC BM5S21_AT77_UCMX_DER	n/a	•
 18	A-5026-287-A	COMPL SVC BM5S21_AT77_UCMX	•	n/a
19	5-023-281-01	KEY, TOP(SGT)	n/a	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 3 XR-77A8*J

SET PART LIST

REF. NO	PART NO.	DESCRIPTION	XR-77A80J	XR-77A80CJ
			UCM	UC2
20	4-699-975-02	SHEET,THERMAL(5567H)	.	.
21	5-023-557-01	SHEET THERMAL(BM5S21 DDR)	.	.
22	5-011-960-01	SHEET, THERMAL(LMN TCON)	.	.
23	5-026-656-01	GASKET, B PLATE (TUR 3L)	.	.
24	4-535-308-21	CUSHION 825C	.	.
 25	1-010-551-11	G12 - STATIC CONVERTER(TV)	.	.
26	5-014-769-01	SPACER(26) WF +C	.	.
27	5-023-831-11	SHT, INSULATION (TUR 3L) A	.	.
28	2-650-770-21	SLIDE, CLAMP	.	.
29	*5-023-713-01	BRACKET, VESA(3L LMN)	.	.
 30	1-011-883-11	OLED PANEL(L77APA1)	.	.
31	5-023-429-01	STAND, BASE (L) (3L TUR) A	.	.
32	5-023-430-01	STAND, BASE (R) (3L TUR) A	.	.

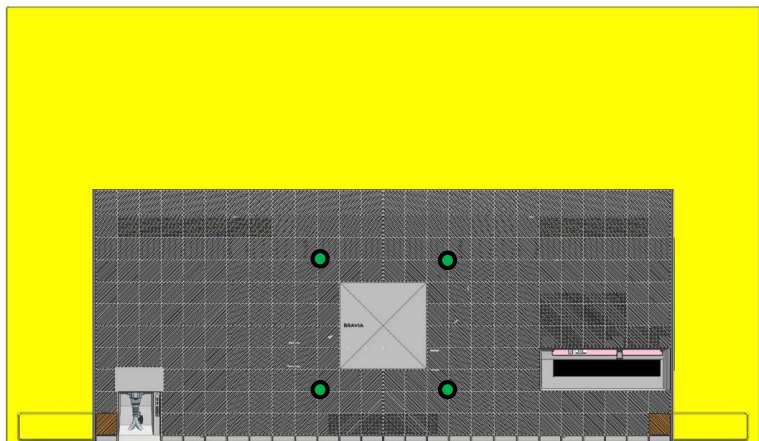
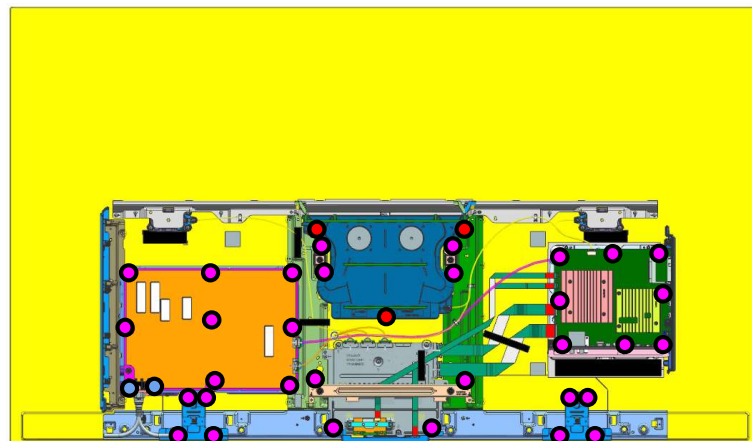
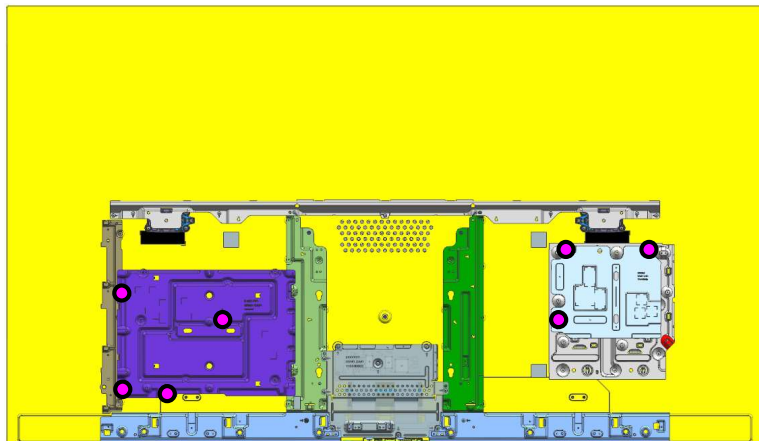
When replacing PANEL, please also replace the following parts to new one at the same time.





- 2. LABEL, SIDE TERMINAL (BM5S21)
- 12. CUSHION 1525A
- 27. SHT, INSULATION (TUR 3L) A
- 15. CUSHION FFC (TUR 3L) .
- 17. DOUBLE SIDE TAPE FOR FC S .
- 24. CUSHION 825C .
- 23. GASKET, B PLATE (TUR 3L)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 3 XR-77A8*J

SCREW

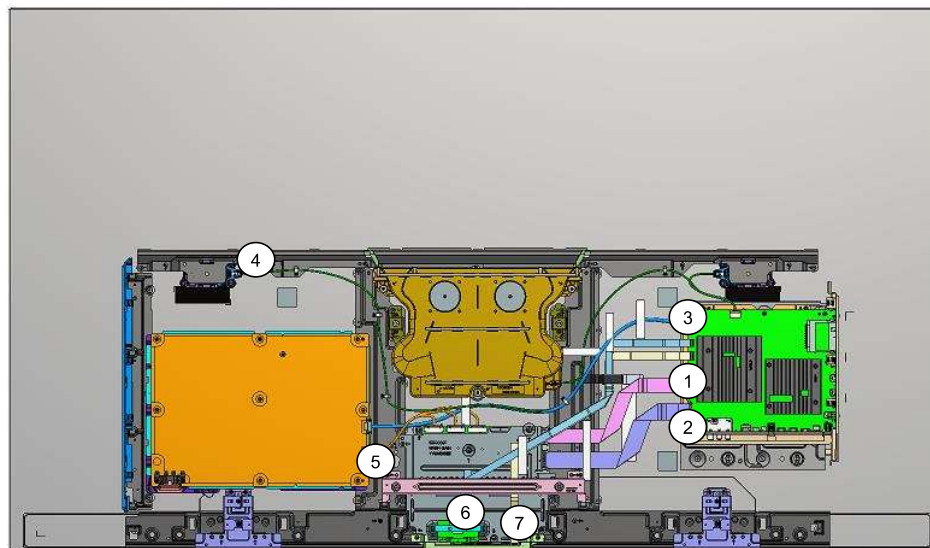


REMARK	P/N	DESCRIPTION	QUANTITY	TORQUE
	4-268-126-02	SCREW, ORNAMENTAL M6X12	4	1.2+/-0.1(N.m)
	4-472-518-11	SCREW, +PSW M3x6	39	0.4+/-0.05
	4-256-393-12	SCREW, +PSW M3x6 W12	3	0.4+/-0.05
	7-682-948-09	SCREW, +PSW M3X8	2	0.4+/-0.05

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 3 XR-77A8*J

CONNECTOR




REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-010-642-11	FLEXIBLE FLAT CABLE 41P	CN6801(B)-CN7(TCON)(1)
2	1-010-644-11	FLEXIBLE FLAT CABLE 51P	CN6800(B)-CN5(TCON)(1)
3	1-010-580-11	CONNECTOR ASSY 20P	CN6401(PSU)-CN1700(B)(1)
4	1-010-581-11	CONNECTOR ASSY 8P	CN6612(B)-SP(1)
5	1-010-582-11	CONNECTOR ASSY 30P	CN6601(PSU)-CN8(TCON)-CN6(TCON)-CN14(TCON)(1)
6	1-010-637-11	FLEXIBLE FLAT CABLE 20P	CN3803(B)-BT(1)
7	1-010-639-11	FLEXIBLE FLAT CABLE 25P	CN1200(B)-CN102(H)(1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SECTION 3 XR-77A8*J

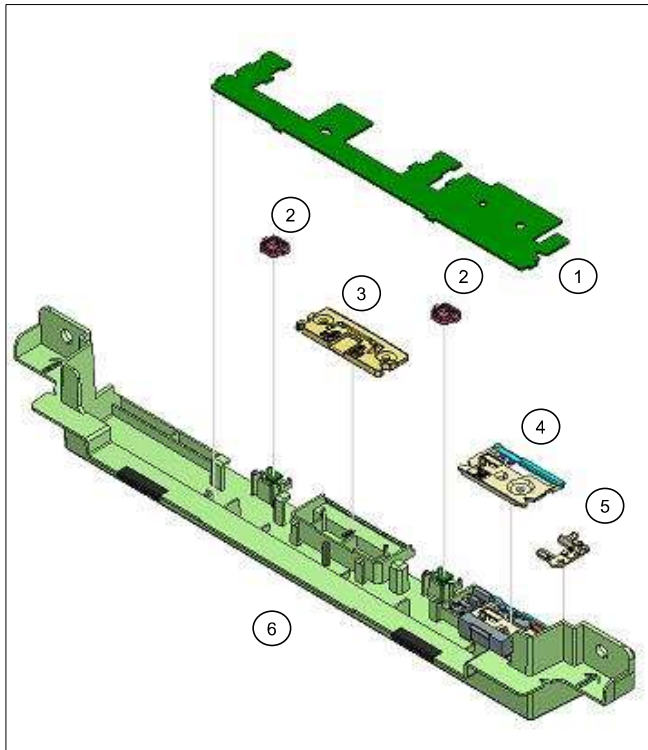
OTHER PARTS

PART NO.	DESCRIPTION	XR-77A80J	XR-77A80CJ
		UCM	UC2
4-535-064-61	ASSY,FALL LOCK,BELT LL	.	.
*4-262-708-04	CLAMPER, CABLE	.	.
 1-836-883-12	POWER-SUPPLY CORD	.	.
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	.	.
5-026-348-11	REFERENCE GUIDE	.	.
5-026-350-11	SETUP GUIDE	.	.
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	.	.

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SMART CORE
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SMART CORE

55" / 65" / 77"



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	A-5026-358-A	HL2_WW_CT MOUNT	
1	A-5026-355-A	HL2_MIC_WW_CT MOUNT	XR-55 / 65 / 77A80CJ
2	5-023-161-21	SILICON MIC(PHN)	XR-55 / 65 / 77A80CJ
3	5-023-066-21	LIGHT GUIDE ILM (COM)	-
4	5-023-065-22	LIGHT GUIDE OPT (COM)	-
5	5-023-067-21	LIGHT GUIDE LED (COM)	XR-55 / 65 / 77A80CJ
6	5-023-809-51	COVER,BTM(TUR)	XR-77A80J
6	5-023-809-61	COVER,BTM(TUR)	XR-55 / 65A80J
6	5-023-809-11	COVER,BTM(TUR)	XR-65 / 77A80CJ
6	5-023-809-21	COVER,BTM(TUR)	XR-55A80CJ

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SMART CORE
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