

SERVICE MANUAL (TROUBLESHOOTING)

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9-888-908-21

LCD TV

SONY®

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

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



MODEL

XR-75Z9K

XR-85Z9K

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Self Diagnosis
Supported model


Please refer Service Manual (Disassembly) for below information:

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

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

SAFETY NOTES

1-1. Warnings and Caution.

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

6) IMPORTANT REMINDER FOR TV MAIN BOARD REPLACEMENT:

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

1-2. Caution Handling of LCD Panel.

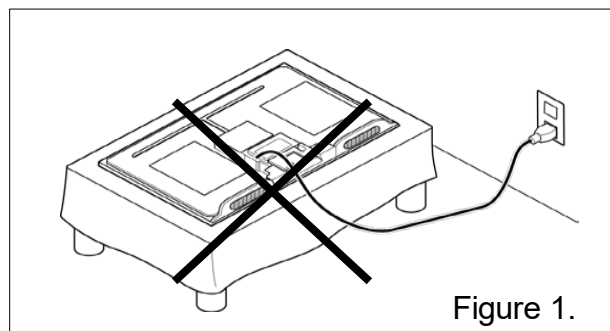
When repairing the LCD Panel, make sure you are grounded with a wrist band.

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

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

SAFETY NOTES

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



1-3. Caution_for_Board_handling.

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

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

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

Substrate that needs attention for handling :

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

※ Things to prepare in advance.



※ 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)

SAFETY NOTES

ESD cushion / sheet
Please use a bag containing the board or a special seat



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

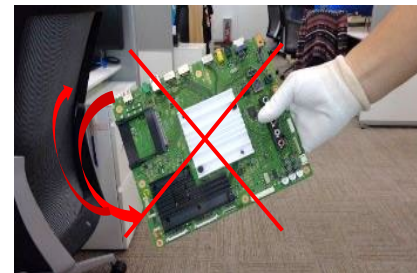
① Hold the board with both hands



② Do not hold/push Heat-Sink



③ Handle with care. Do not swing



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

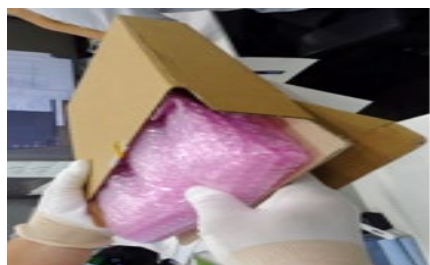


⑤ Do not stack up

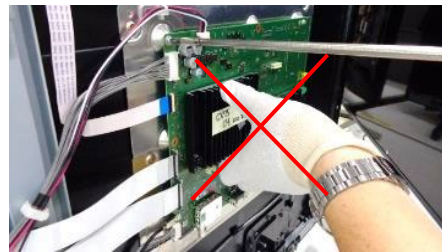


SAFETY NOTES

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



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



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

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

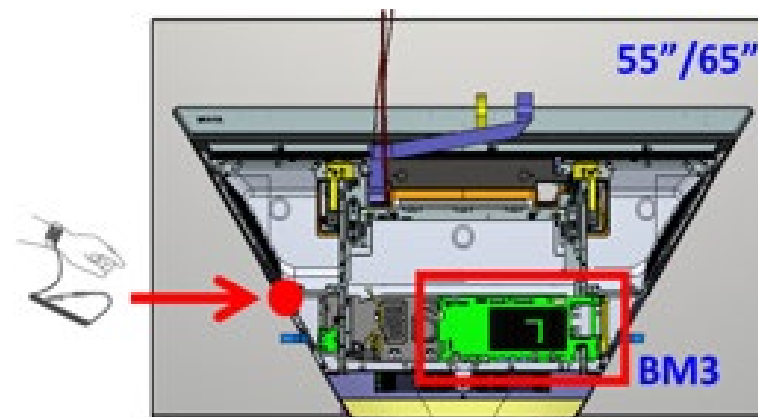


- ② Use ESD wrist-strap

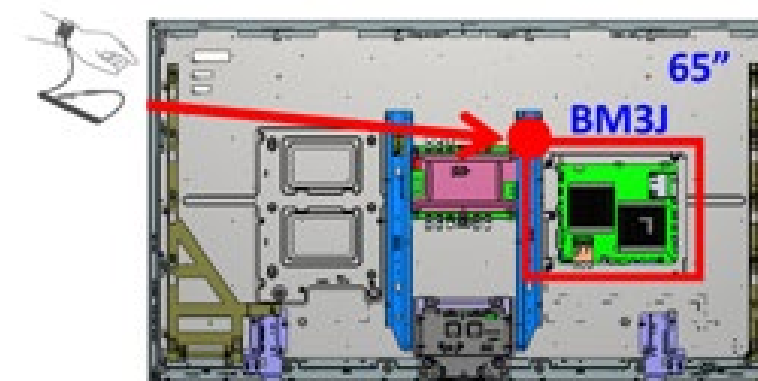


※Installation example of wrist-strap.

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)

SAFETY NOTES

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



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



1-4. Caution About the Lithium Battery.

- 1) Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
- 2) Outer case broken battery should not contact to water.

SAFETY NOTES

1-5. Safety Check-Out

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

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

1-6. Leakage Test.

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

Stabilized power supply instrument and isolated voltage transformer:

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

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

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

Leakage current of measurement instrument is less than 10µArms when under test equipment AC plug is opened.

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

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

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

Comply with the following requirement.

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

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

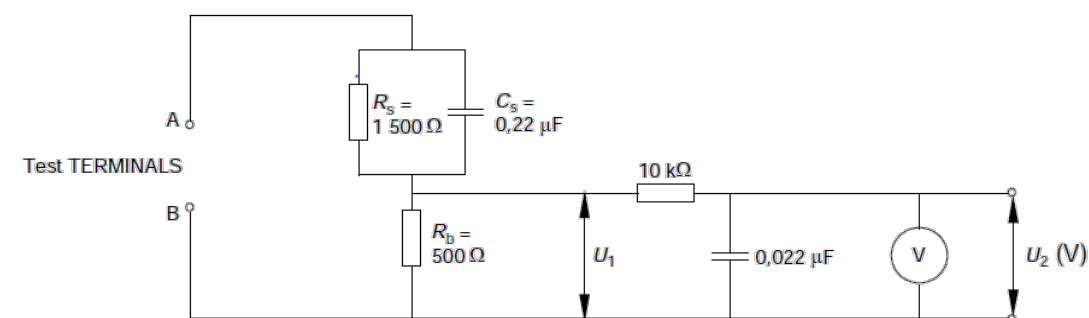


Figure 2 – Measuring network for Leakage Current

IEC 802/98

SAFETY NOTES

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

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

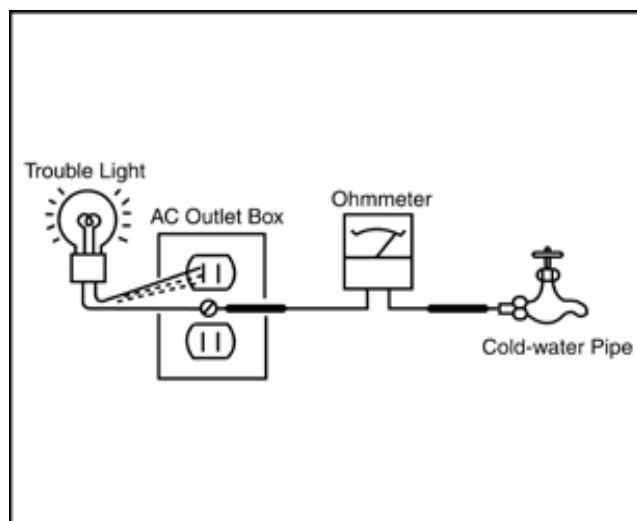


Figure 3. Checking for earth ground.

1-8. Lead Free Information

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



Figure 4: LF Logo

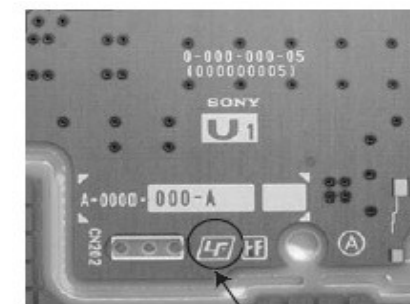


Figure 5: LF logo on circuit board

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

SELF DIAGNOSIS FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the Smart Core Red LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem.

A definition of the Smart Core Red LED flash indicators is listed in the instruction manual for the user's knowledge and reference.

If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

DIAGNOSTIC TEST INDICATORS

When an error occurs, the Smart Core Red LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

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

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/LD/B/G> LED driver failure/LED voltage protection [LD_ERR]
	<LD/P/B> <i>Error detection of the I2C communication between the Main device and the LD IC.[BCM_ERR]</i>
5x	<P/T/G/B> <i>Panel ID EEPROM I2C No ACK (Also panel power failure is a suspect) [P_ID_ERR]</i>
6x	<P/G/B> Backlight failure [BACKLIGHT_ERR]
7x	<P/B> Over temperature protection [TEMP_ERR]
8x	 4KBE failure (4KBE WDT) [4KBE_ERR]

Blue italic: detect at startup sequence only.

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

SELF DIAGNOSIS FUNCTION

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

Error Item	Detection Items
TU_DEMOD	-
TCON_ERR	<T> T-CON device I2C communication failure
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	<B/8> 8KBE Board I2C communication failure
8KSHV_ERR	-
AMB_ERR_I2C	<B/H> Ambient sensor I2C communication failure

: Main board, <T>: T-con board, <H>: LED / IR & sensor board, <8>: 8KBE Board

SELF DIAGNOSIS FUNCTION

Retry Limitation by Remote/Power Key

Smart Core Red LED blinking count	Error Name	Retry Permission Times *1	Note
2x	MAIN_POWER	STDWN_RTRY_LIMIT_MAINPOWR = 1	→ Number of off/on action for MAIN_POWER shutdown is recorded to STDWN_OFFON_CNT_MAIN_POWER.
3x	DC_ALERT (5V)	STDWN_RTRY_LIMIT = 2	
	AUD_ERR	STDWN_RTRY_LIMIT = 2	Number of off/on action during the error shutdown is recorded to STDWN_OFFON_CNT.
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	

*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:

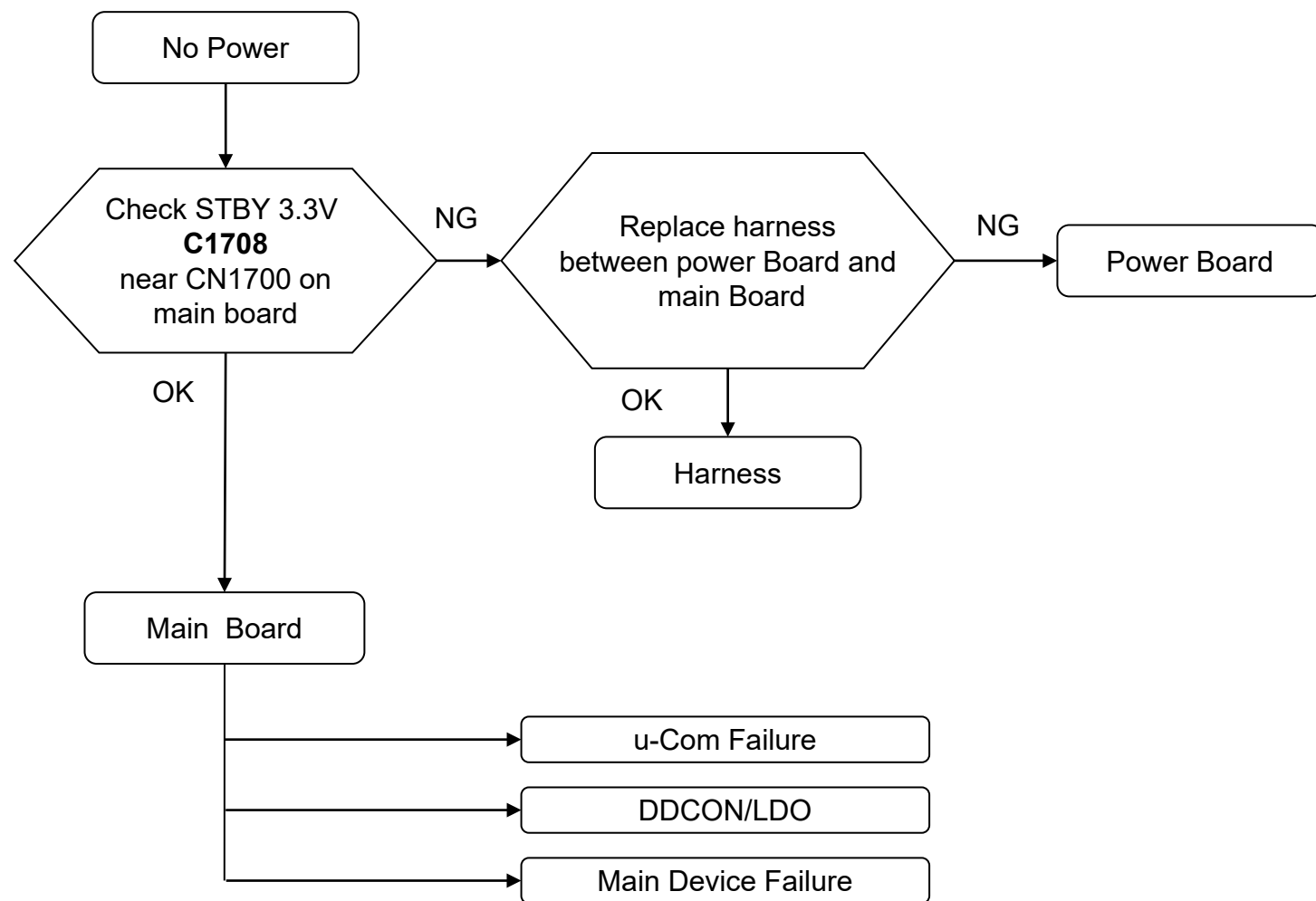
1. Confirm the symptom from the customer.
2. Select that symptom from the chart.
3. Bring all the boards and cables listed for that symptom.
4. Follow the troubleshooting charts in the technical guides to isolate the board.

5. Chart Color Code: ● : Most likely defective part ■ : Tertiary possible defective part
▲ : Secondary possible defective part BLACK TEXT: Board that may correct the symptom

Reference	Symptoms - Shutdown. Power LED blinking red diagnostics sequences							Symptoms - no shutdown Error log record only								No Power	Video - missing or distorted						Remote	Network	Audio		Smart Core	Bluetooth (BT)		
	2	3	4	5	6	7	8	TU_DEMOD	TU_DEMOD_I2C	TCON_ERR	FRCTC_I2C	AUD_ERR_I2C	4KPQ_ERR_I2C	TEMP_ERR_I2C	EARC_ERR_I2C	8KBE_COM_ERR	AMB_ERR_I2C	No White Power LED & does not response to remote (Dead Set)	Stationary colored lines or dots	No video One of Inputs	No video on HDMI4	No RF input	No video of Camera	No video all Inputs	No Remote	Cannot connect to Wireless Network	No Audio on all inputs	No Audio on HDMI4	Smart Core no LED (Set is still alive)	Bluetooth / One Step Remote (OSR) can't connect
Main Board	▲	●	■	■	■	●	●		●	▲		●		▲		▲	▲	▲	▲	●	▲	●	▲	●	▲	▲	●	●	▲	▲
Power Board	●	▲	■	■	■													●						■			▲			
Receiver Board														●		●		▲							●			●		
Speaker		▲																									●	■		
Wi-Fi & BT Module																										●				●
LD* Board			▲		▲											▲								■						
V By One FFC (to Panel)				▲						▲								▲						▲						
V By One FFC (to ONT* 41pin)				▲														▲						▲						
V By One FFC (to ONT* 51pin include repeat HDMI)				▲														▲		▲				▲						
FFC 14pin (B*-ONT*)																▲														
FFC 30pin (B*-LD*)			▲													▲														
Tcon				●														▲						■						
ONT* board				▲												●					●			▲			●			
LCD Panel			●	▲	●	▲				■								●						■						
Camera (bundle)																							●							
Problem	Power	Power	Panel	Panel (Communication)	Panel (Backlight)	TEMP	4KBE																							
		Audio	LD	Tcon																										

TROUBLESHOOTING

1.0 No Power

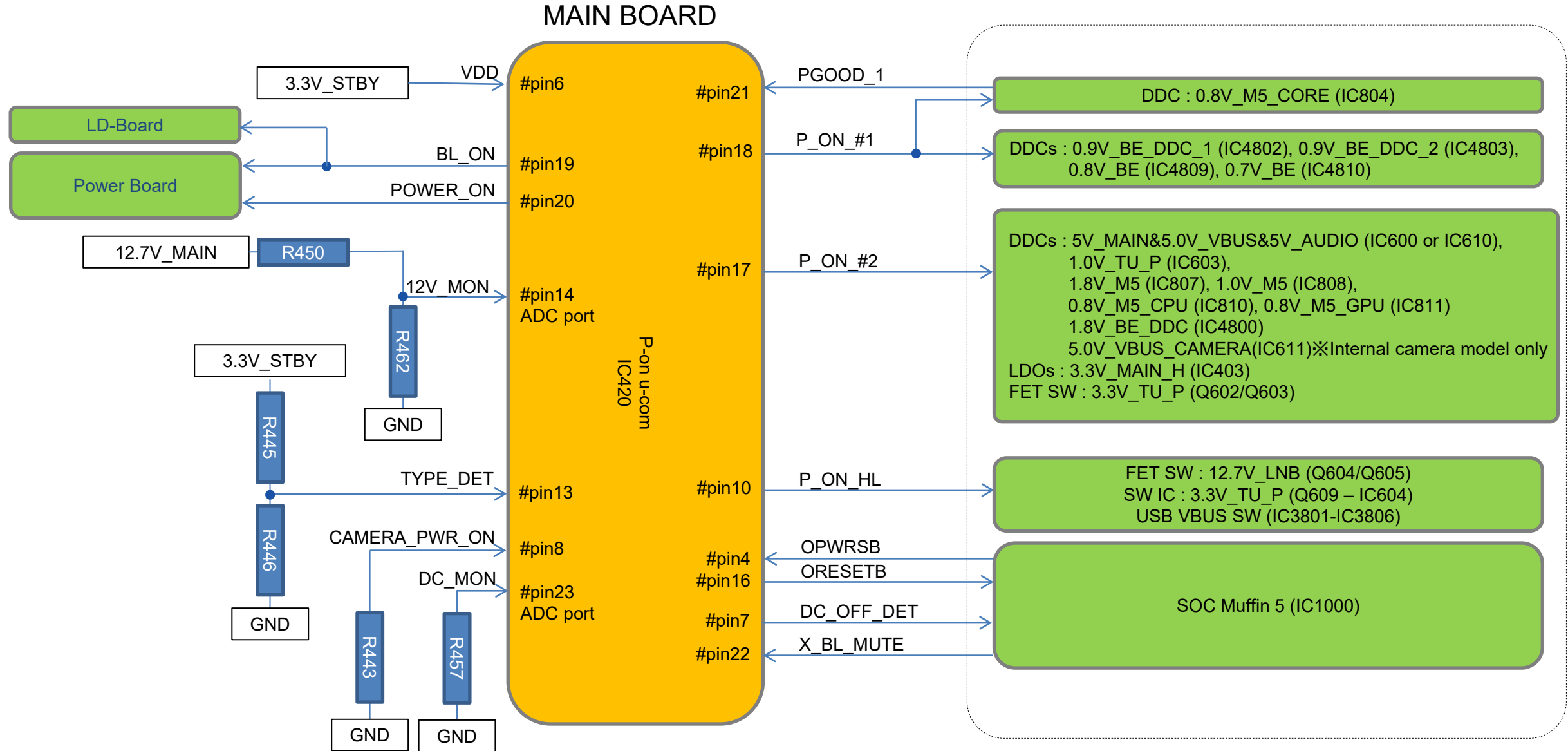


TROUBLESHOOTING

1.2 No Power U – com Failure

BM5S22 Board LCD Model when mounted on IC420

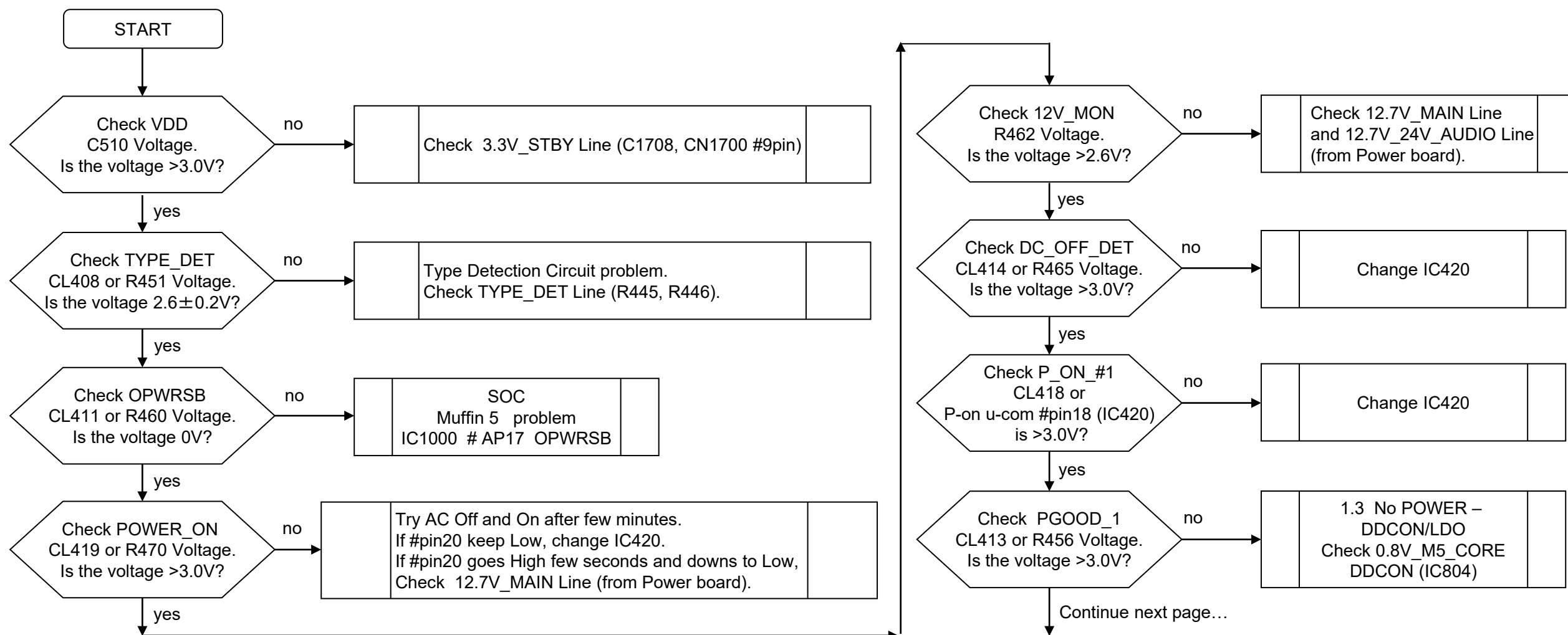
P-on u-com control signal path summary



TROUBLESHOOTING

1.2 No Power U – com Failure

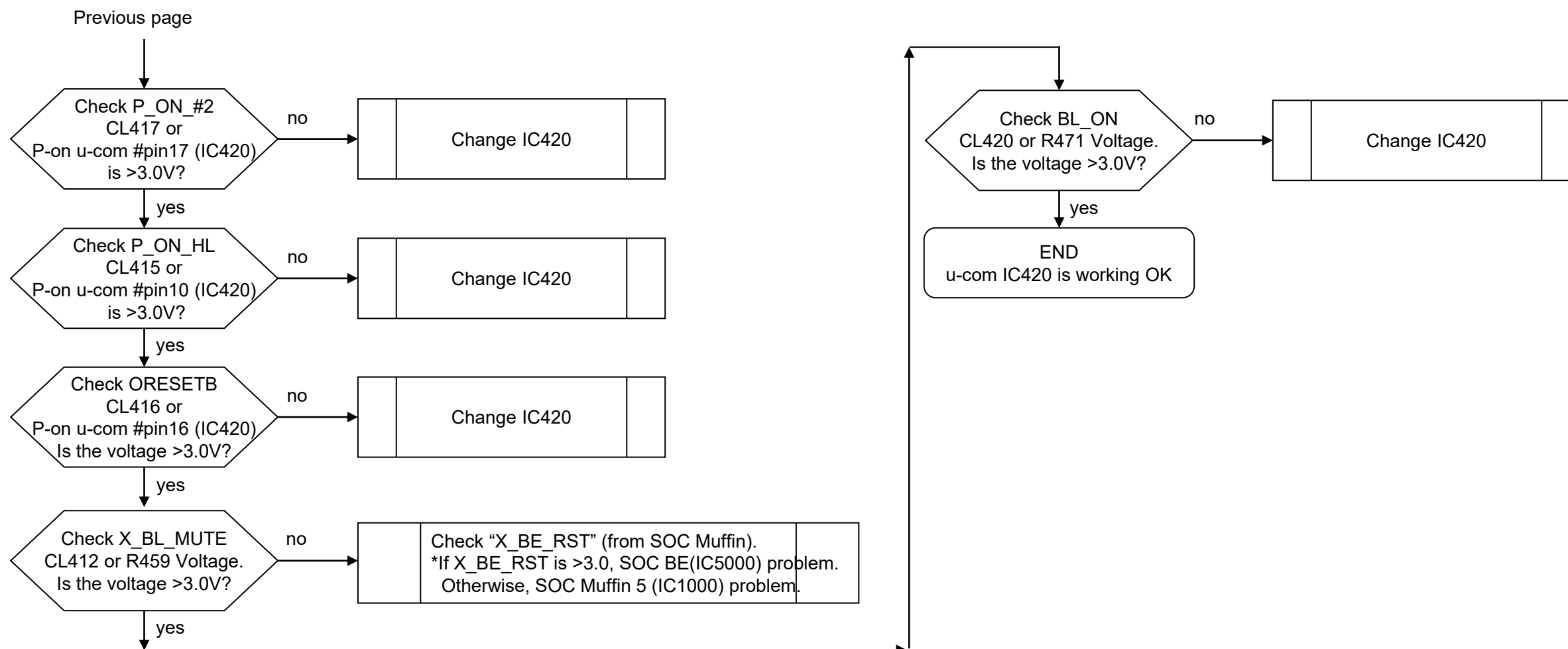
BM5S22 Board LCD Model when mounted on IC420



TROUBLESHOOTING

1.2 No Power U – com Failure

BM5S22 Board LCD Model when mounted on IC420

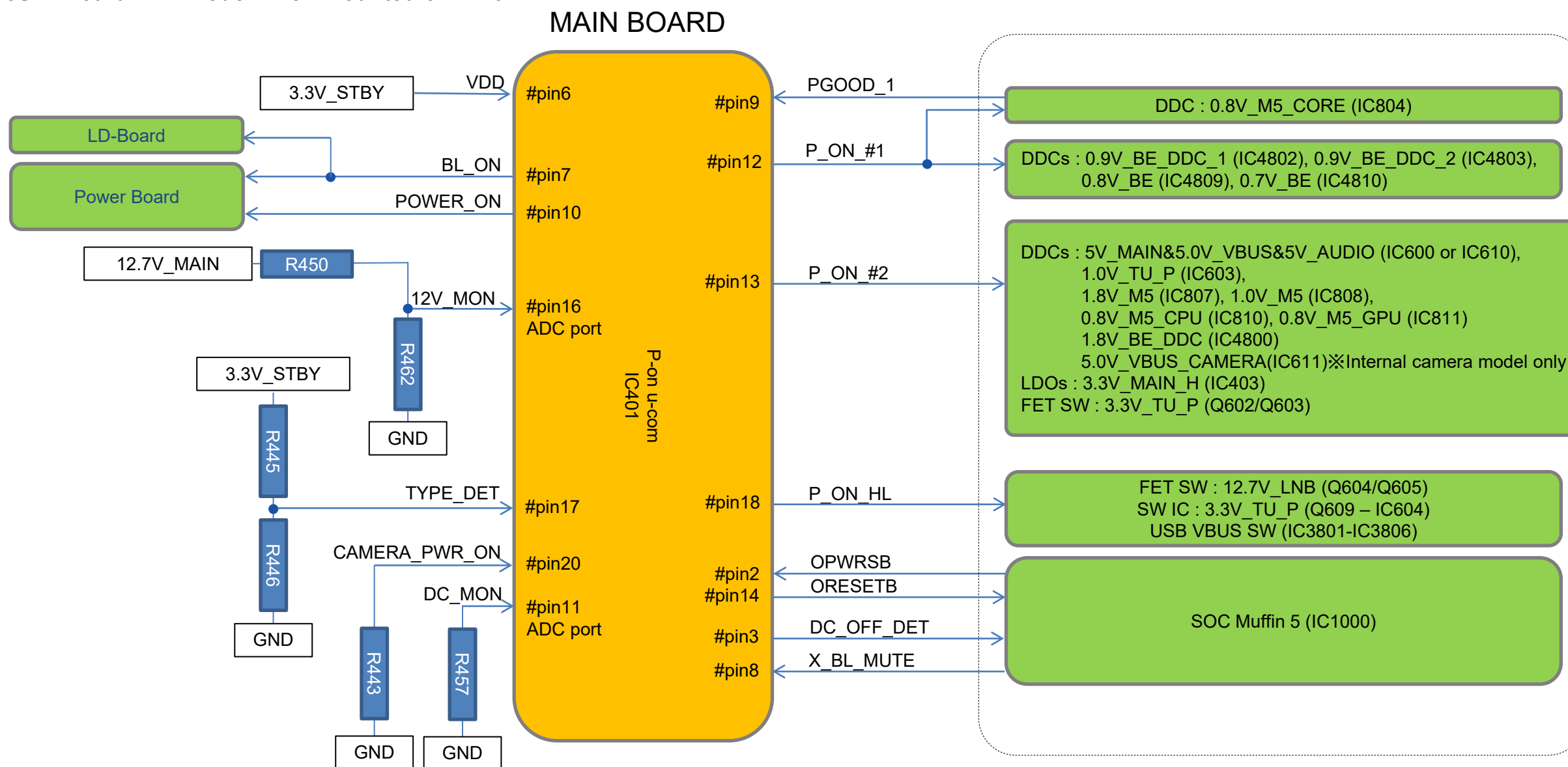


TROUBLESHOOTING

1.2 No Power U – com Failure

BM5S22 Board LCD Model when mounted on IC401

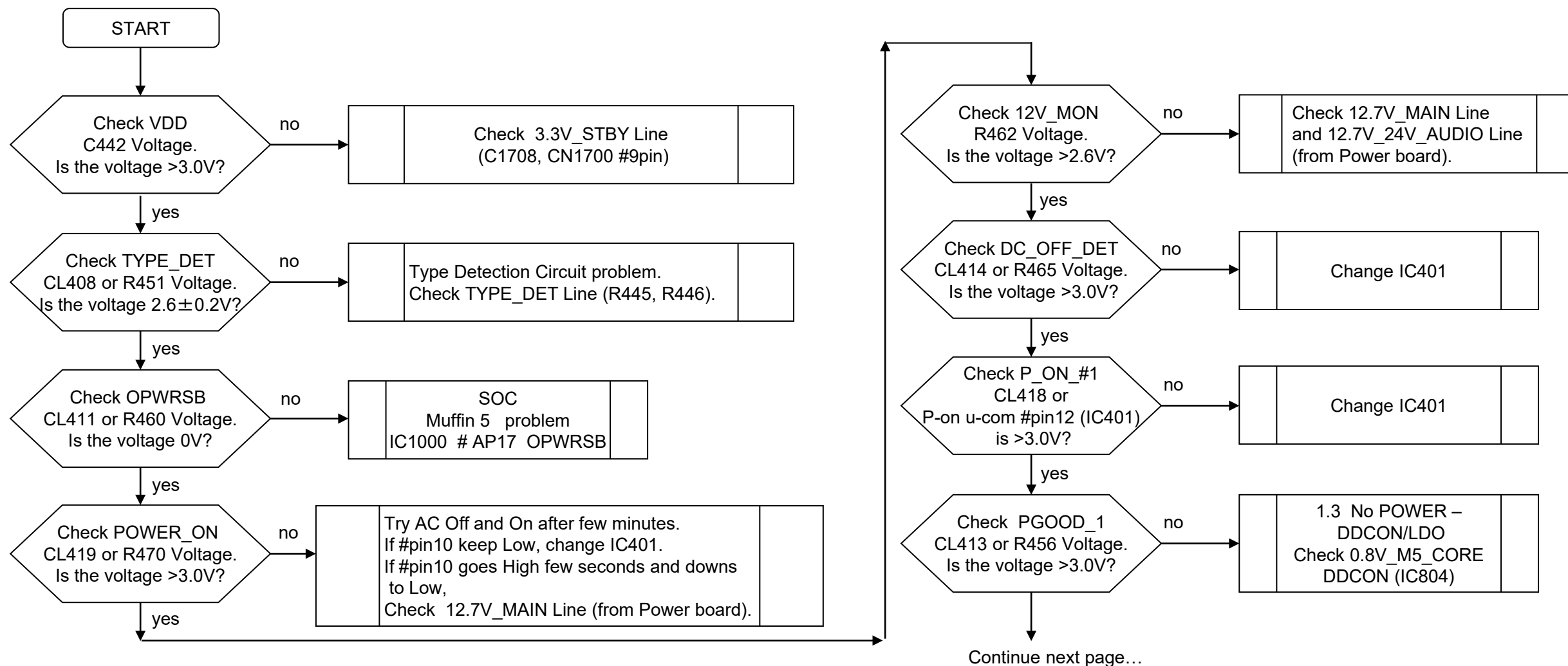
P-on u-com control signal path summary



TROUBLESHOOTING

1.2 No Power U – com Failure

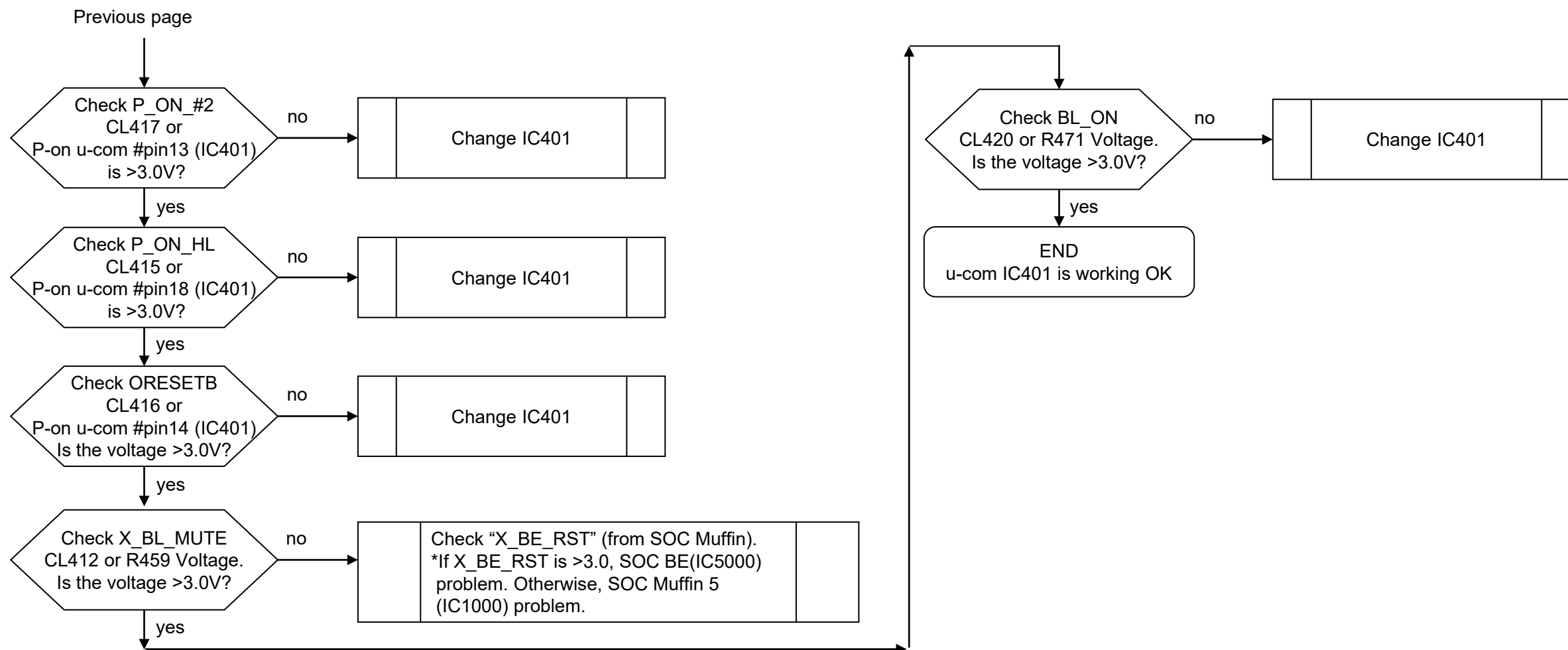
BM5S22 Board LCD Model when mounted on IC401



TROUBLESHOOTING

1.2 No Power U – com Failure

BM5S22 Board LCD Model when mounted on IC401



TROUBLESHOOTING

1.3 No Power – DDCON / LDO

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

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

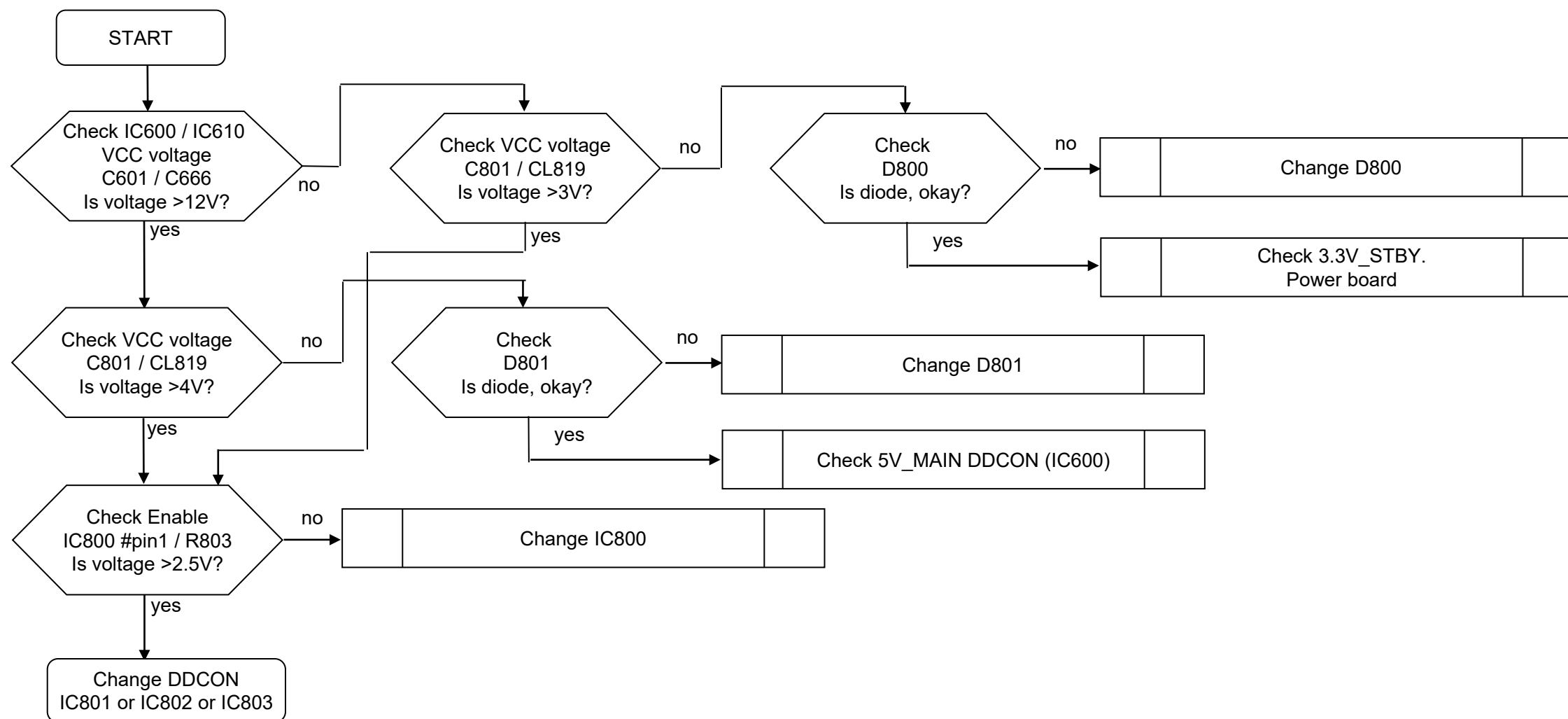
Check item summary

Board	Operation	IC Ref	Voltage supply	Output ref.	Enable pin	Enable source	Fuse	Vcc ref.
BM5S22	DC/DC	IC418 or IC419	5.0V_STBY_H	C508 or C514 /JL1212	R557	R557(3.3V_STBY)	-	C505 or C511
BM5S22	LDO	IC403	3.3V_MAIN_H	C416/CL402	R413(shorted)	P_ON_#2	-	C415
BM5S22	DC/DC	IC600 or IC610	5V_MAIN/5V_AUDIO	C610 or C673/JL601	R600 or R670/ CL604 or CL615	P_ON_#2	F600 or F602	C601 or C666
BM5S22	DC/DC	IC601	3.3V_MAIN/3.3V_AUDIO	C619/JL603	R658/CL605	R658(1.8V_BE_DDC)	F601	C618
BM5S22	DC/DC	IC603	1.0V_TU_P	C630/CL607	R631(shorted)/JL607	P_ON_#2 or IC1000 #AL18 (EWS_PWR_ON)	-	C628
BM5S22	DC/DC	IC611	5.0V_VBUS_CAMERA	C682/JL635	R681/CL616	P_ON_#2	F603	C681
BM5S22	DC/DC	IC801	1.1V_M5_DDR	C806/JL801	R913(shorted)	R804/R907 (3.3V_STBY)	-	C801/CL819
BM5S22	DC/DC	IC802	0.9V_M5_STBY	C809/CL803	R908(shorted)	R804/R907 (3.3V_STBY)	-	C807/CL822
BM5S22	DC/DC	IC803	1.8V_STBY	C812/CL811	R822(shorted)	R804 (3.3V_STBY)	-	C810/CL824
BM5S22	DC/DC	IC804	0.8V_M5_CORE	C846/JL803	R849(shorted)/CL816	P_ON_#1	F802	C831
BM5S22	LDO	IC806	1.8V_M5_ET_STBY	C818/JL808	R832(shorted)	IC1000 #AN19 (ETHER_PWR_EN)	-	C817/CL826
BM5S22	DC/DC	IC807	1.8V_M5	C823/JL811	R833(shorted)/CL827	P_ON_#2	F800	C822
BM5S22	DC/DC	IC808	1.0V_M5	C829/JL813	R839(shorted)/CL828	P_ON_#2	F801	C828
BM5S22	LDO	IC809	3.3V_M5_STBY	C816/CL831	R917	R917(3.3V_STBY)	-	C815
BM5S22	DC/DC	IC810	0.8V_M5_CPU	C861/JL816	R914/CL829	P_ON_#2	F803	C855
BM5S22	DC/DC	IC811	0.8V_M5_GPU	C874/JL818	R915/CL830	P_ON_#2	F804	C868
BM5S22	DC/DC	IC4800	1.8V_BE_DDC	C4805/JL4801	R4801(shorted)/CL4816	P_ON_#2	F4800	C4803
BM5S22	DC/DC	IC4801	1.1V_BE	C4813/JL4803	R4907/CL4817	R4907(1.8V_BE_DDC)	F4801	C4812
BM5S22	DC/DC	IC4802	0.9V_BE_DDC_1	C4820/JL4805	R4819(shorted)/CL4818	P_ON_#1	F4802	C4819
BM5S22	DC/DC	IC4803	0.9V_BE_DDC_2	C4828/JL4807	R4827(shorted)/CL4819	P_ON_#1	F4803	C4827
BM5S22	DC/DC	IC4809	0.8V_BE	C4860/JL4819	R4849(shorted)/CL4808	P_ON_#1	F4804	C4845
BM5S22	DC/DC	IC4810	0.7V_BE	C4878/JL4821	R4865(shorted)/CL4811	P_ON_#1	F4805	C4863

TROUBLESHOOTING

1.3 No Power – DDCONs check

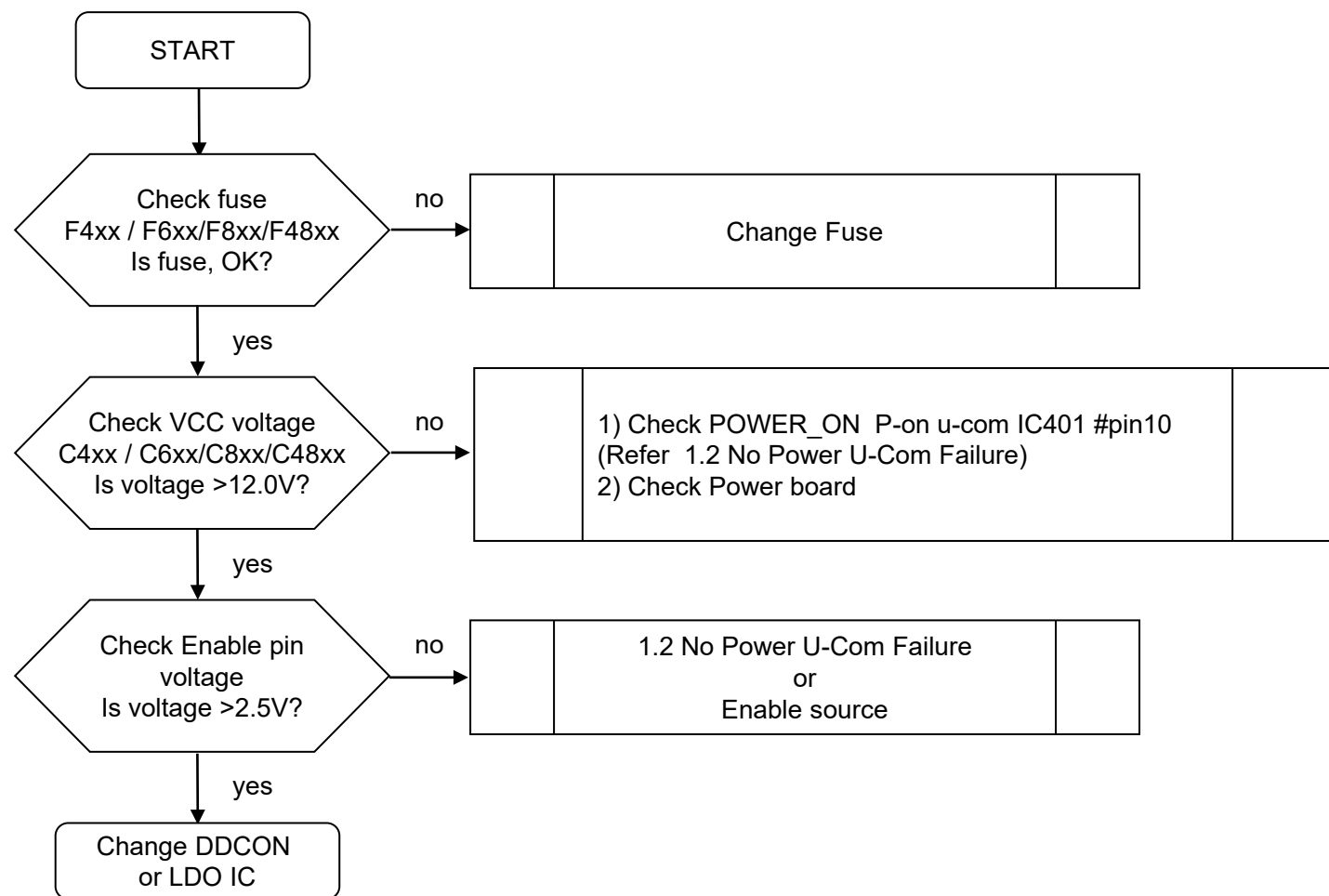
Please refer page 22 for Reference Number.



TROUBLESHOOTING

1.3 No Power – DDCONs & LDO check

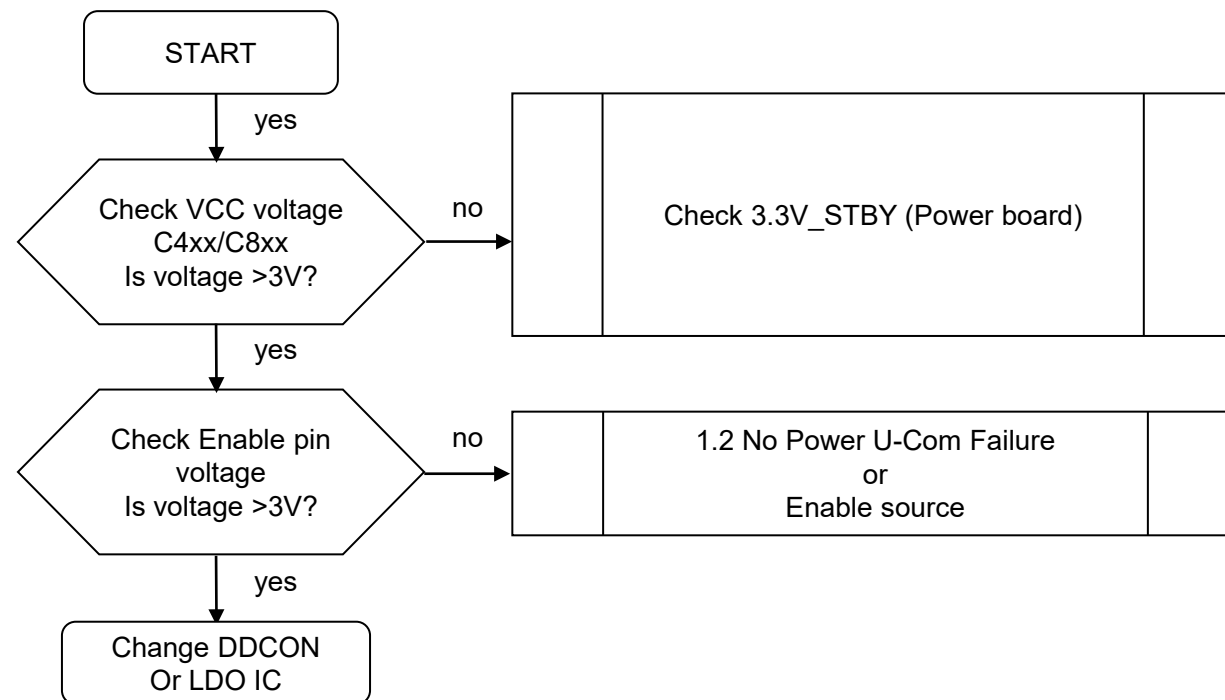
Please refer page 22 for Reference Number.



TROUBLESHOOTING

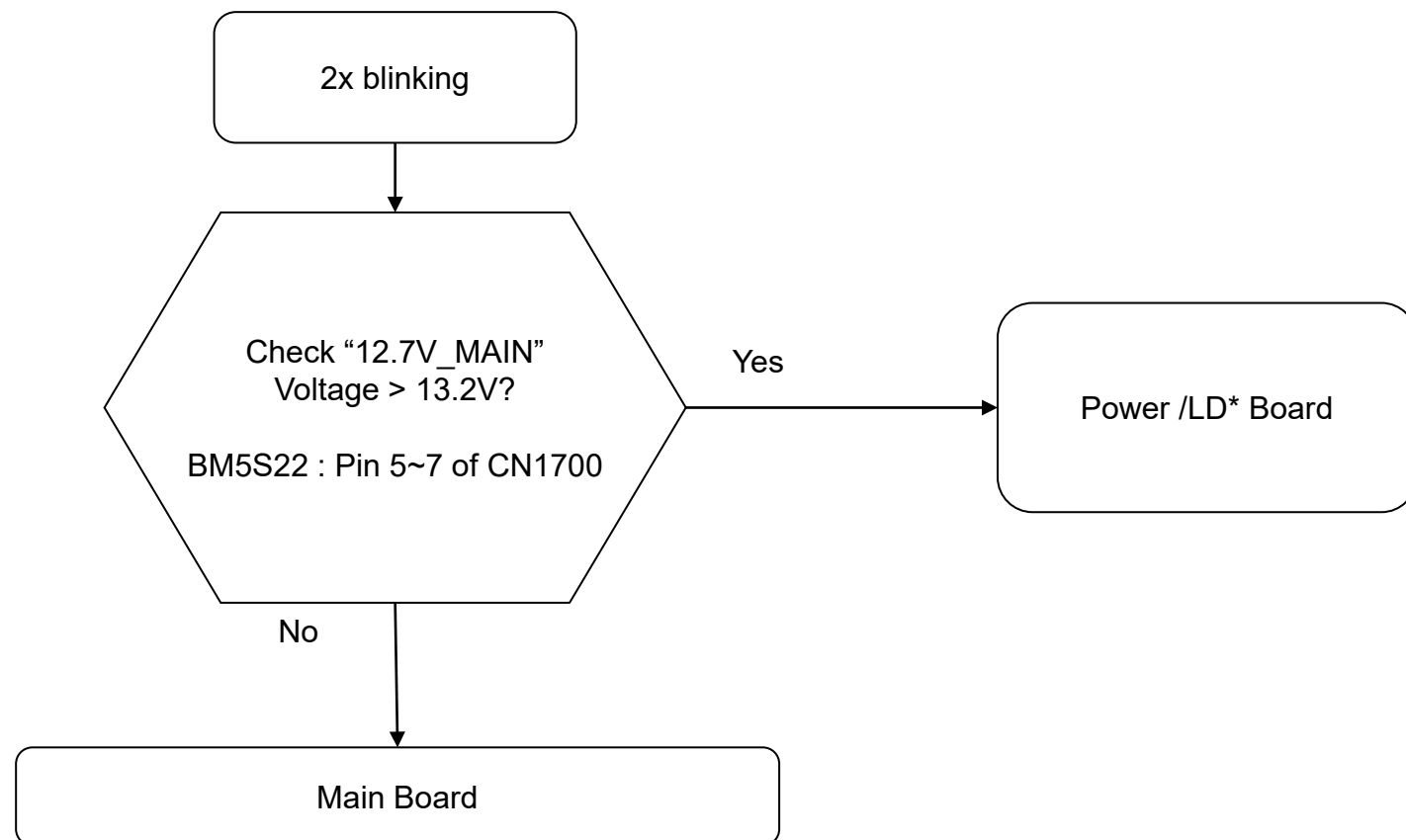
1.3 No Power – DDCONs & LDO check

Please refer page 22 for Reference Number.



TROUBLESHOOTING

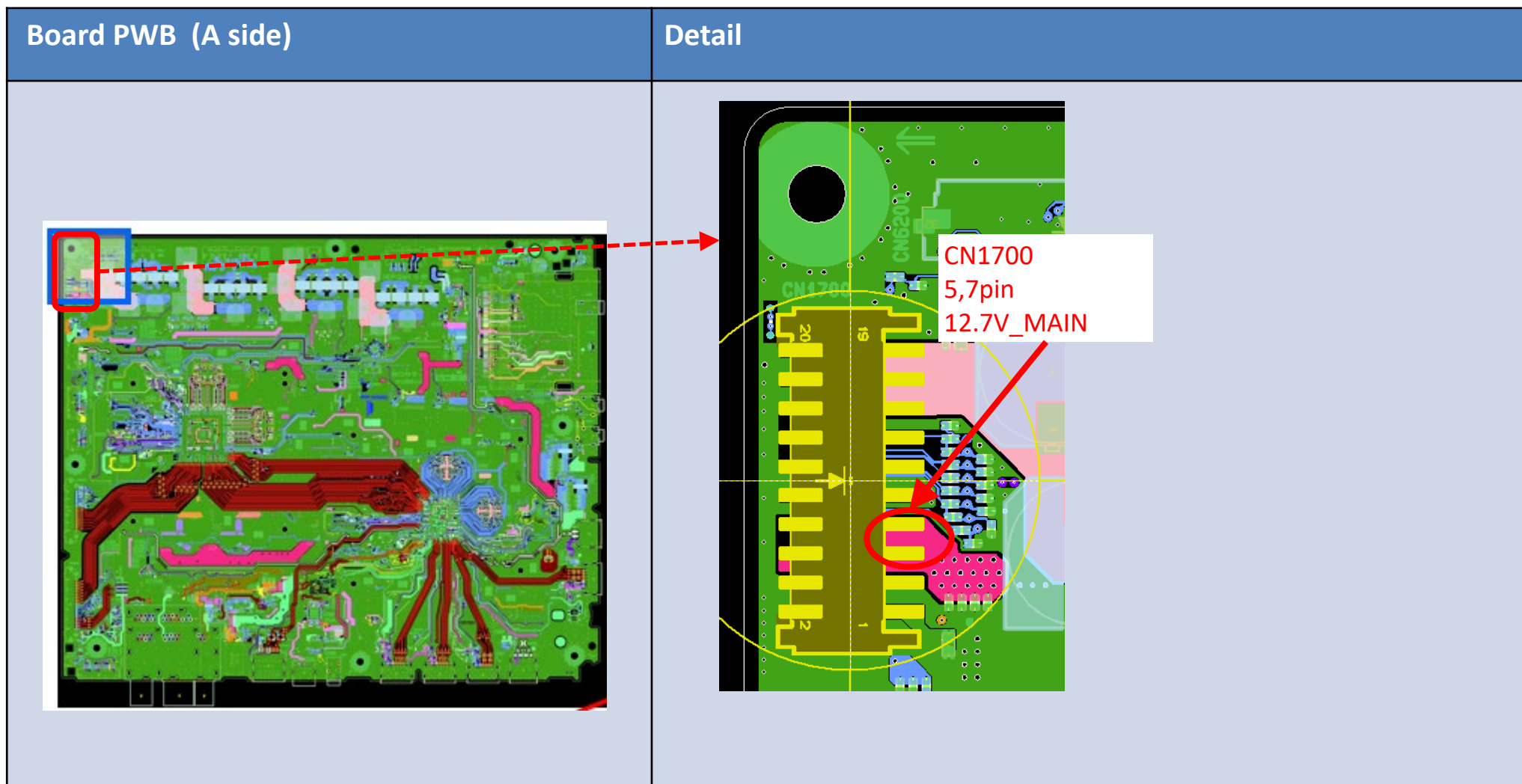
2.0 2x LED Blinking – Main Power Error



TROUBLESHOOTING

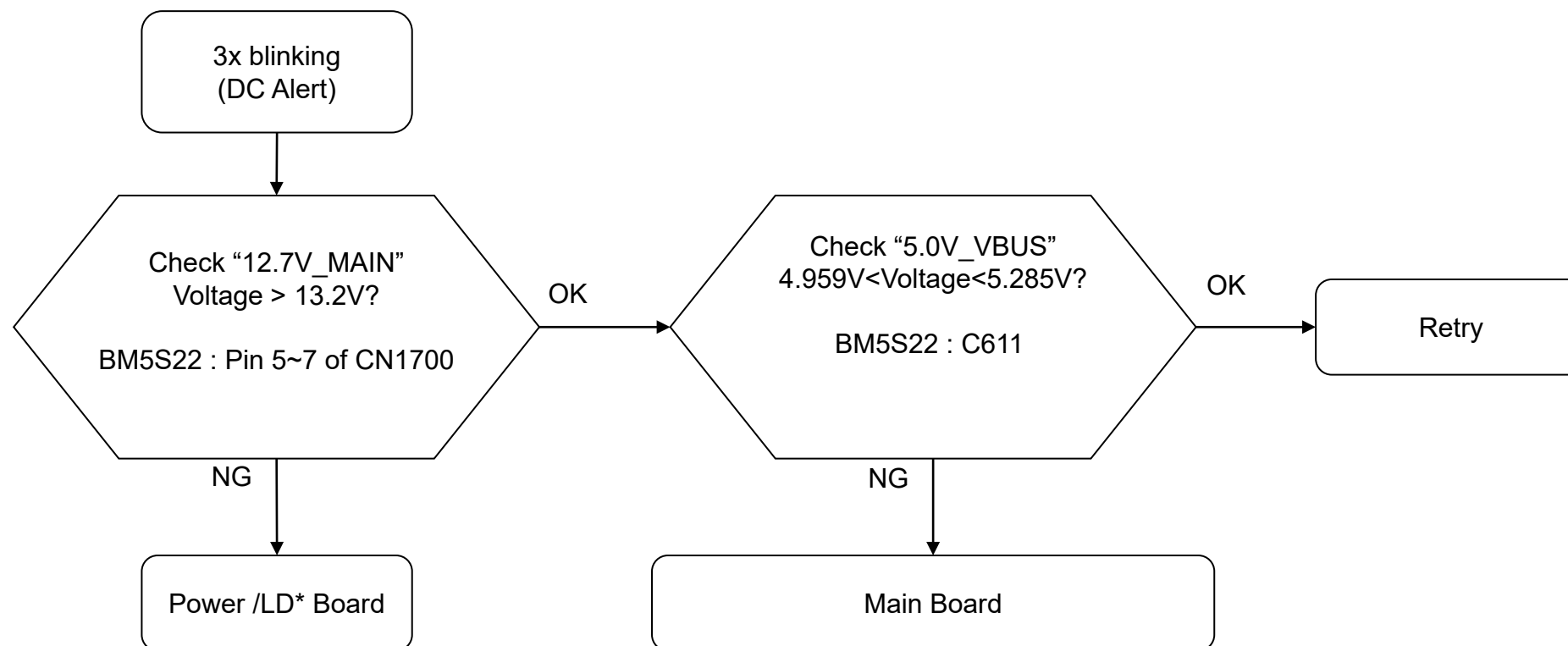
2.0 2x LED Blinking – Main Power Error

Check Point for BM5S22



TROUBLESHOOTING

2.1 3x LED Blinking – DC Alert

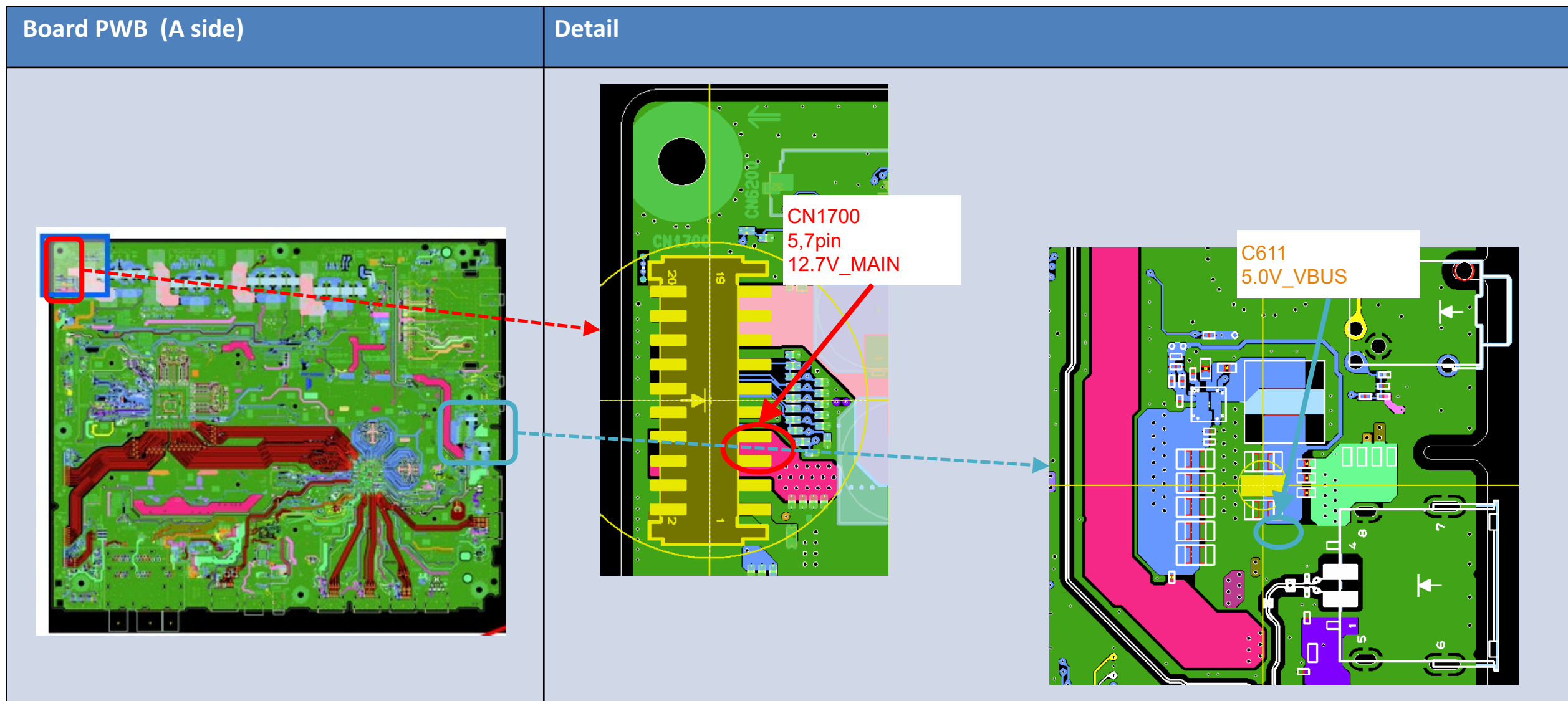


Error Item	Number of STBY LED Blinking	Description
DC_ALERT	3	Main 5V power failure
AUD_ERR	3	Audio amp. protection

TROUBLESHOOTING

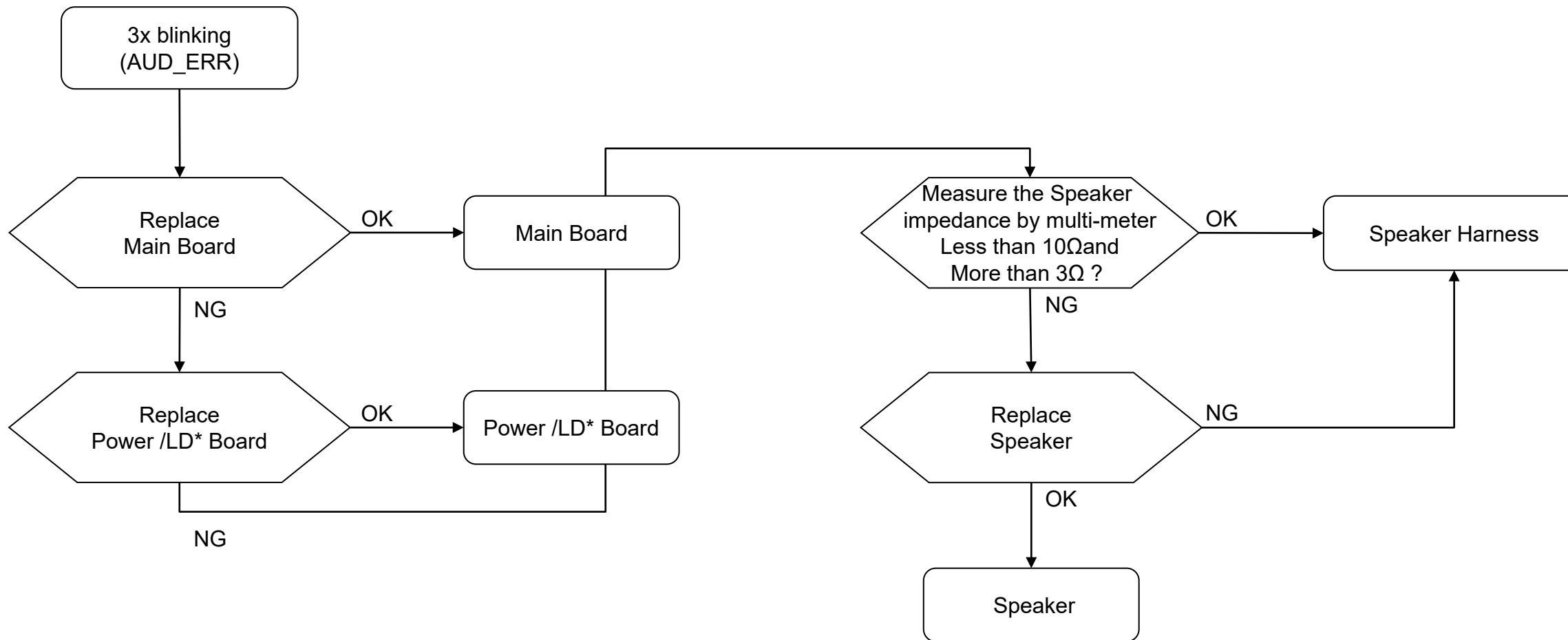
2.1 3x LED Blinking – DC Alert

Check Point for BM5S22



TROUBLESHOOTING

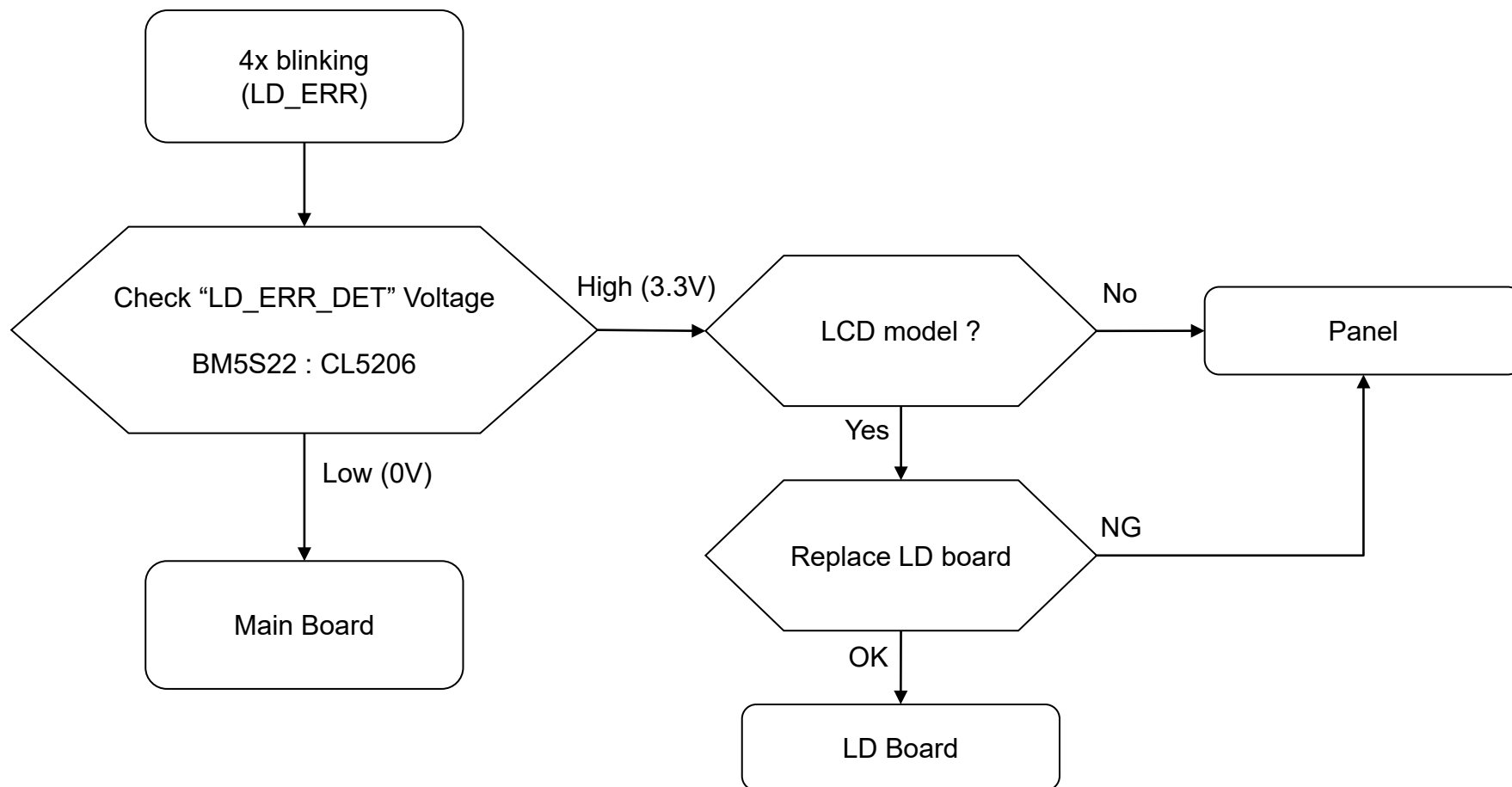
2.2 3x LED Blinking – AUD_ERR



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

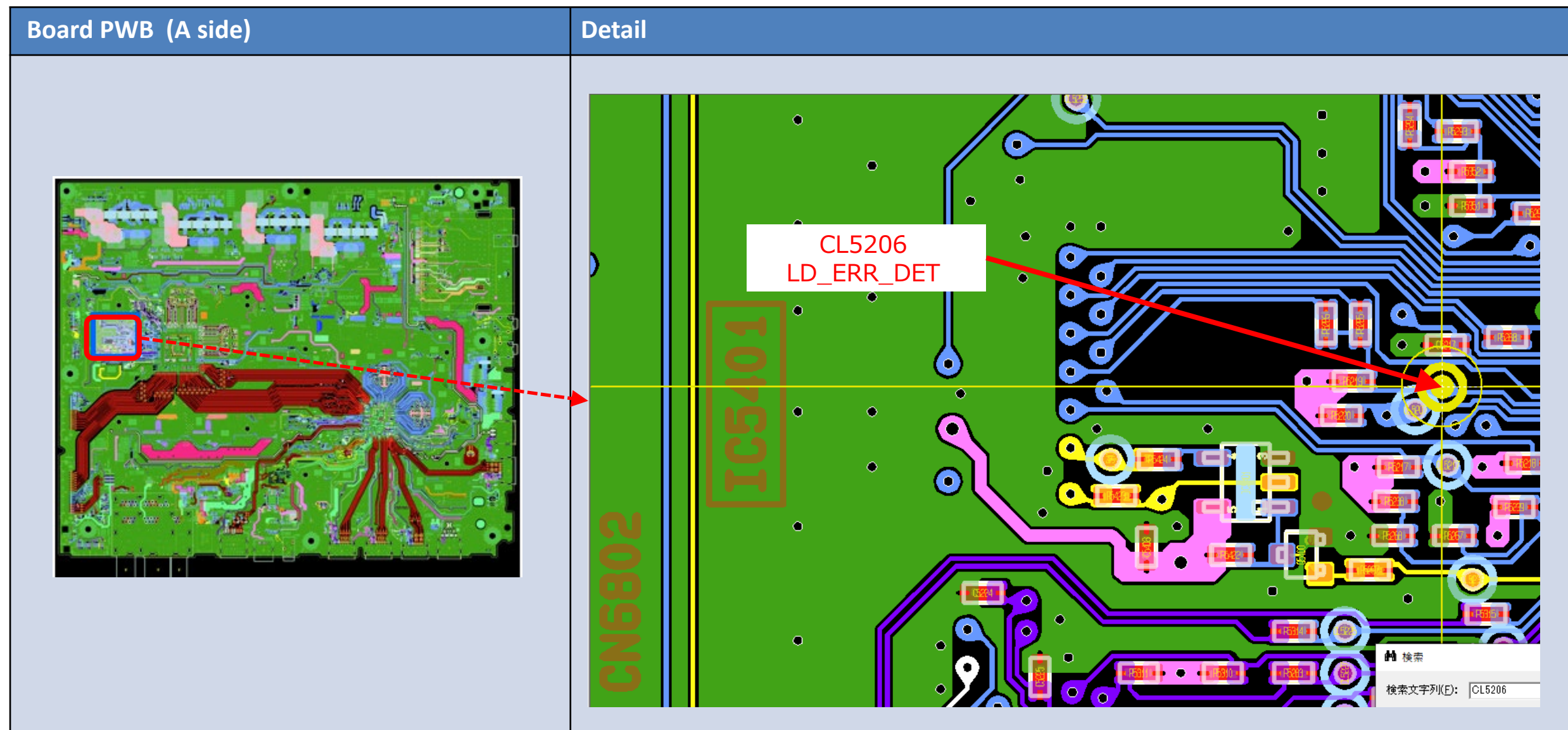


Error Item	Number of STBY LED Blinking	Description	
LD_ERR	4	LCD	LED driver failure/LED voltage protection
		OLED	TCON internal or I2C communication failure

TROUBLESHOOTING

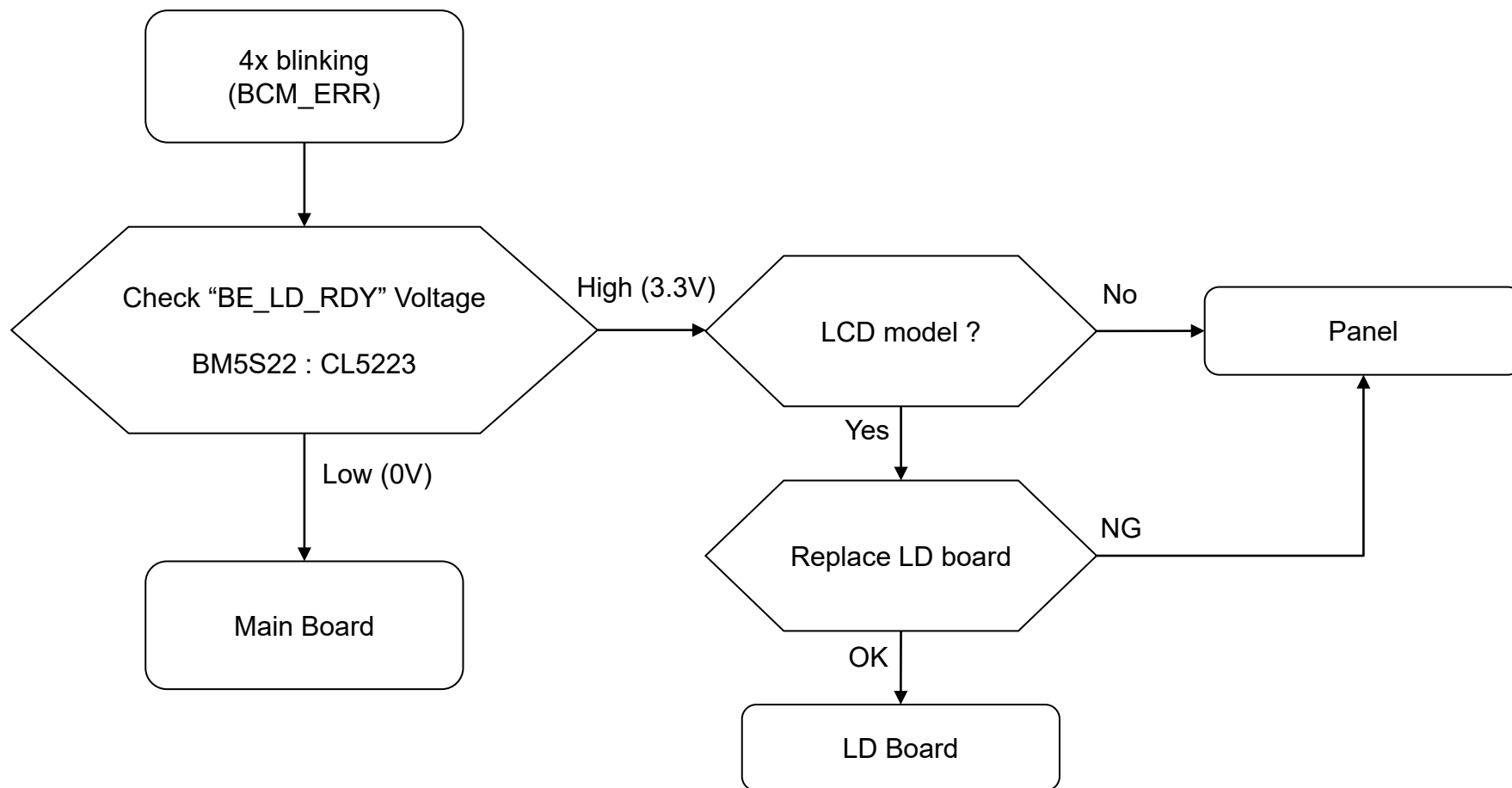
2.3 4x LED Blinking – LD_ERR

Check Point for BM5S22



TROUBLESHOOTING

2.4 4x LED Blinking – BCM_ERR

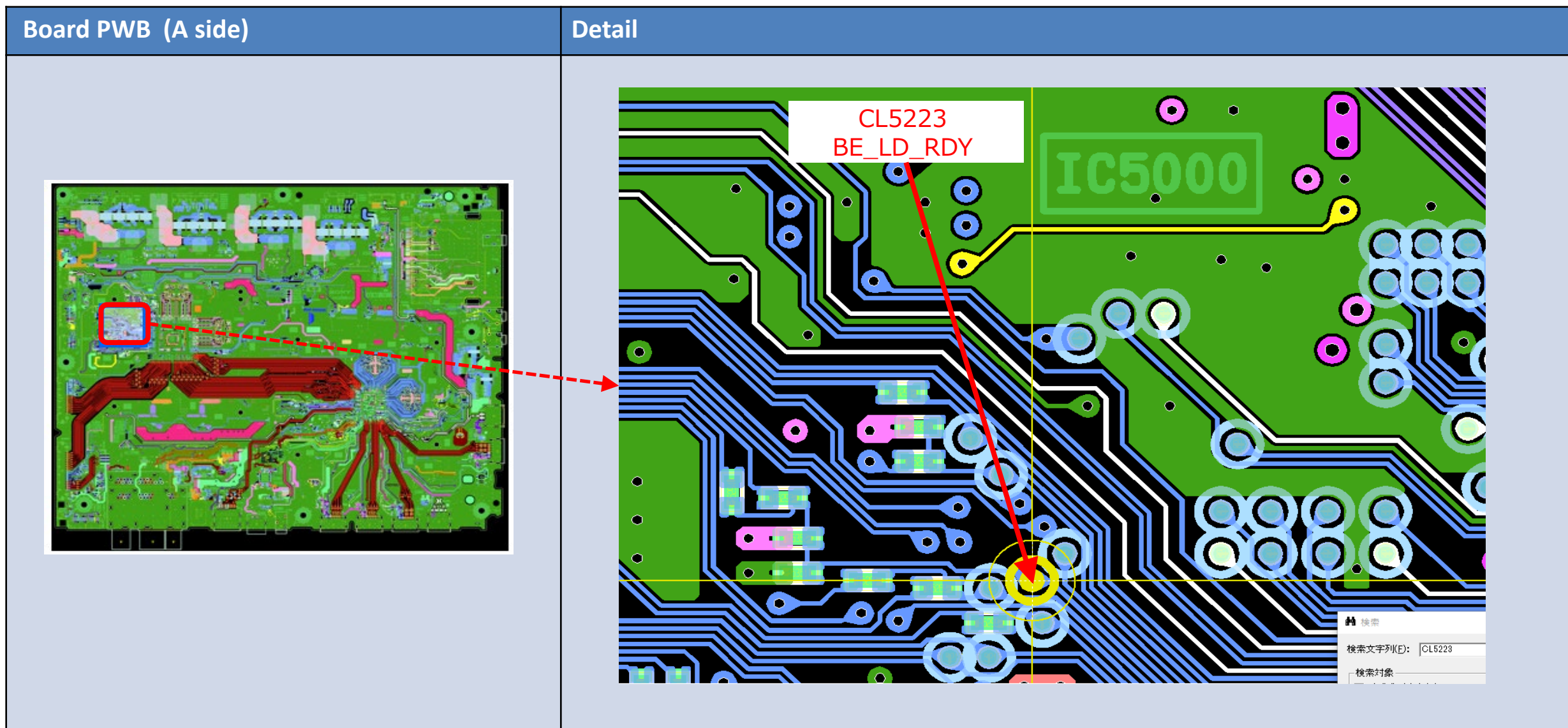


Error Item	Number of STBY LED Blinking	Description	
BCM_ERR	4	LCD	LD IC initialize or I2C communication failure
		OLED	Panel power failure

TROUBLESHOOTING

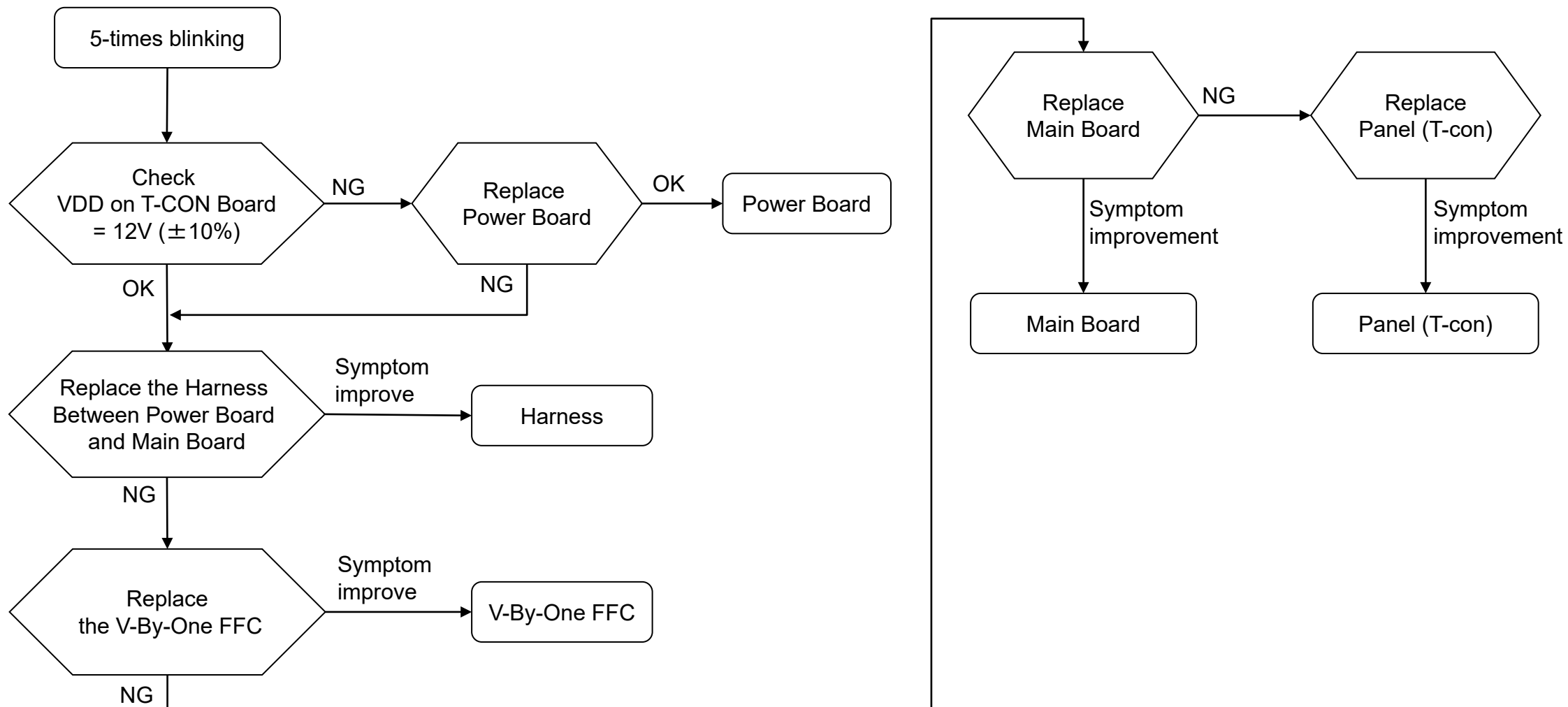
2.4 4x LED Blinking – BCM_ERR

Check Point for BM5S22



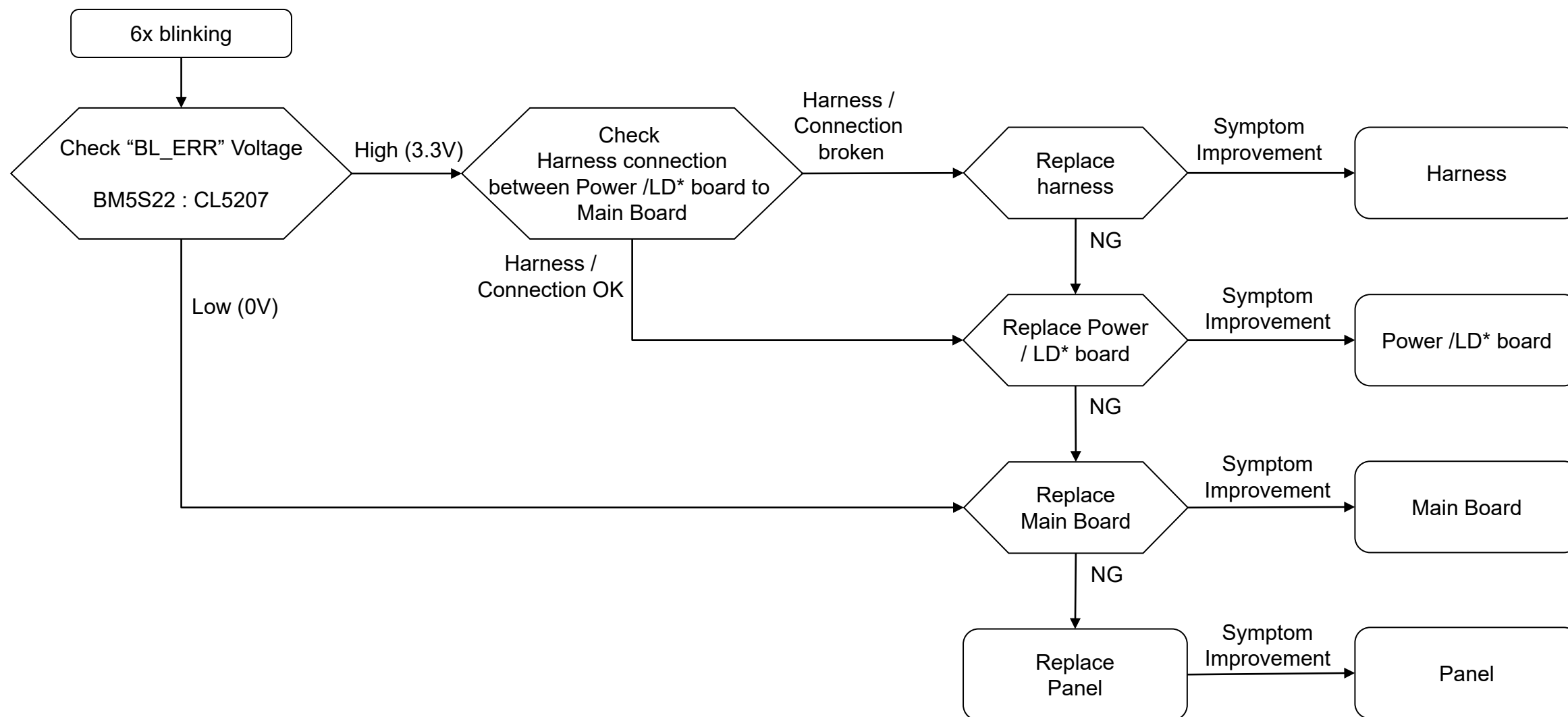
TROUBLESHOOTING

2.5 5x LED Blinking – P_ID_ERR



TROUBLESHOOTING

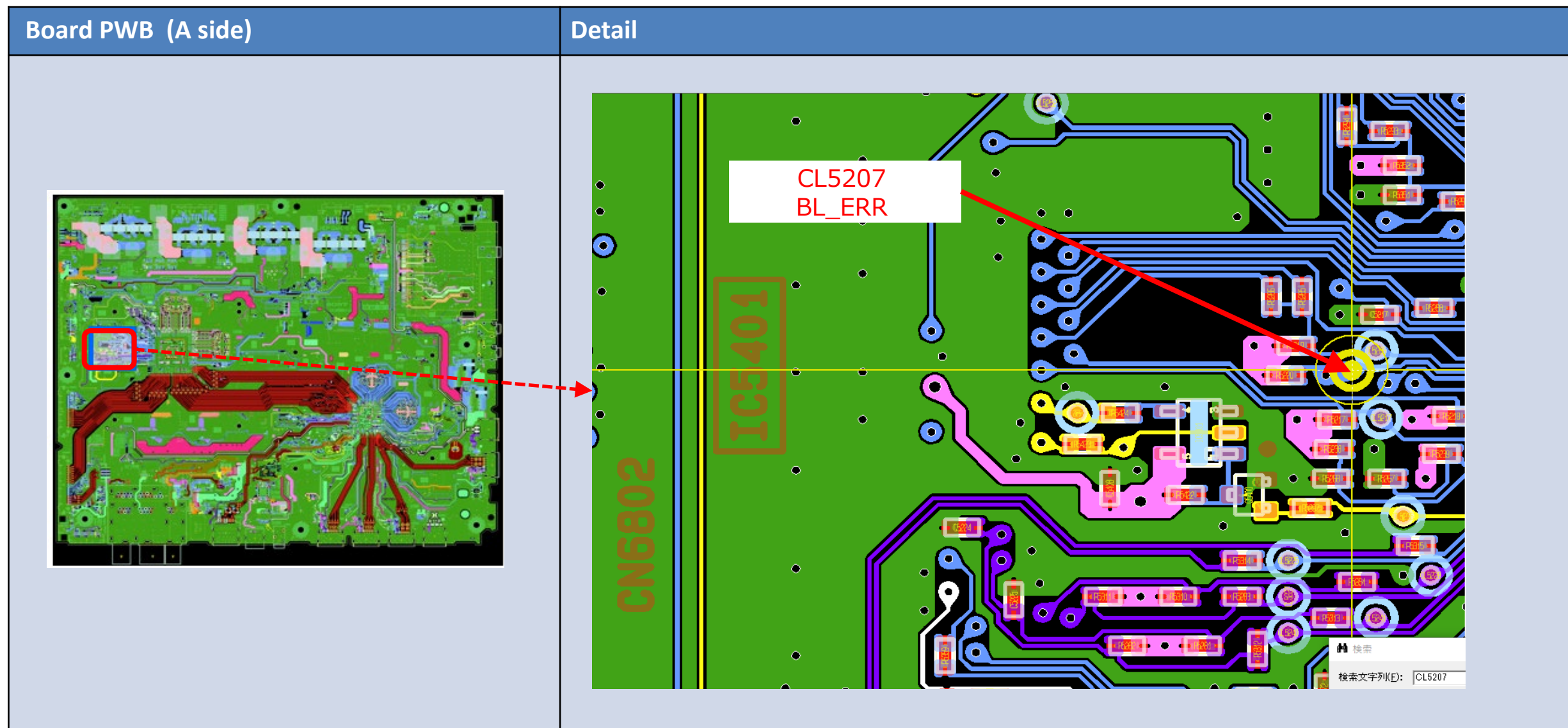
2.6 6x LED Blinking – Backlight_ERR



TROUBLESHOOTING

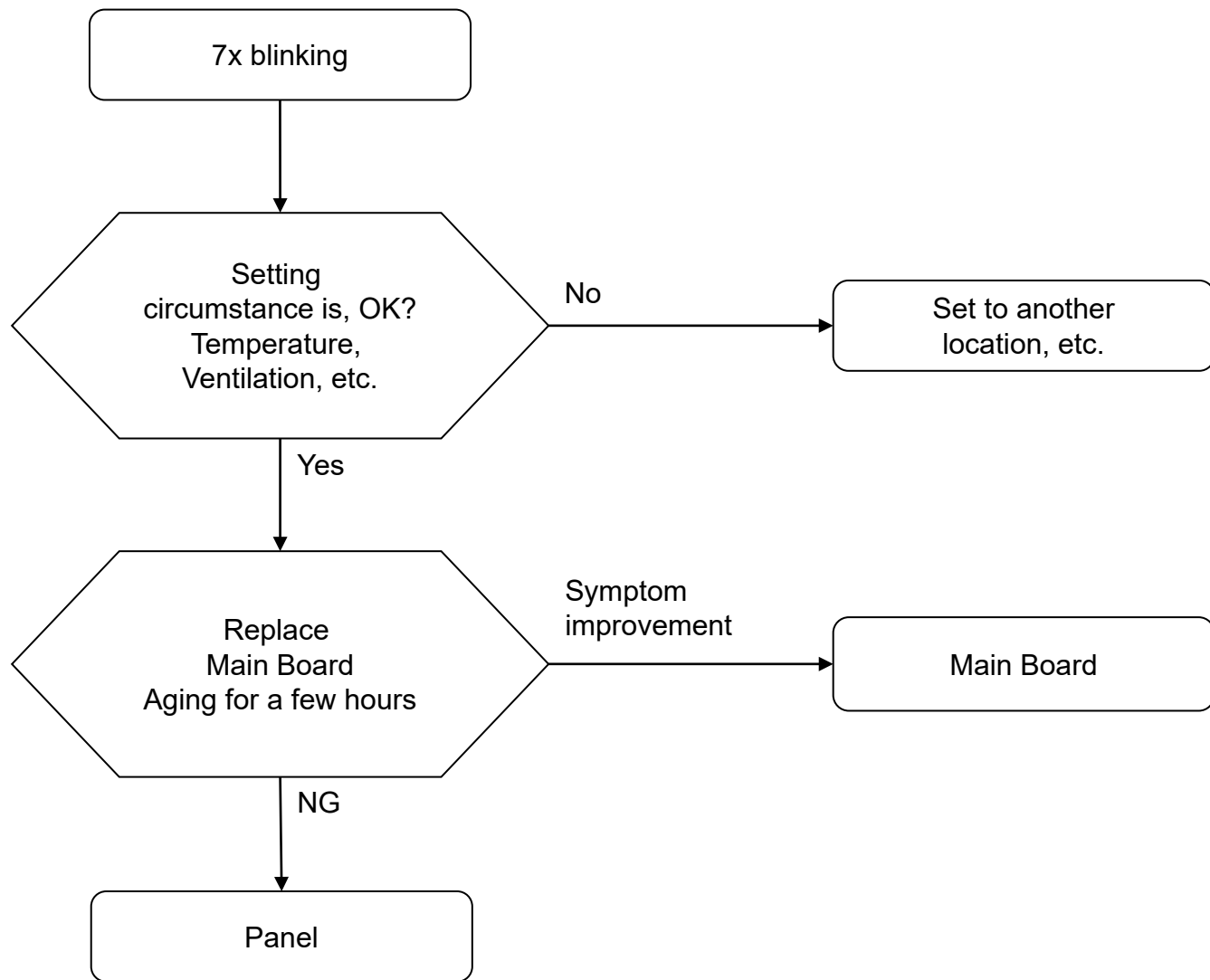
2.6 6x LED Blinking – Backlight_ERR

Check Point for BM5S22

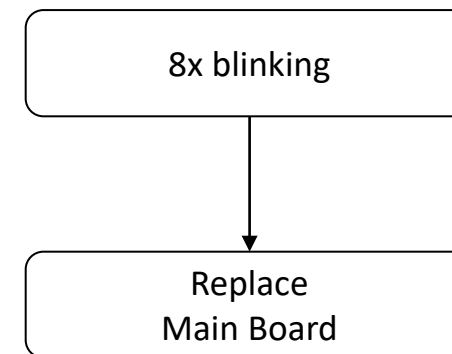


TROUBLESHOOTING

2.7 7x LED Blinking – TEMP_ERR

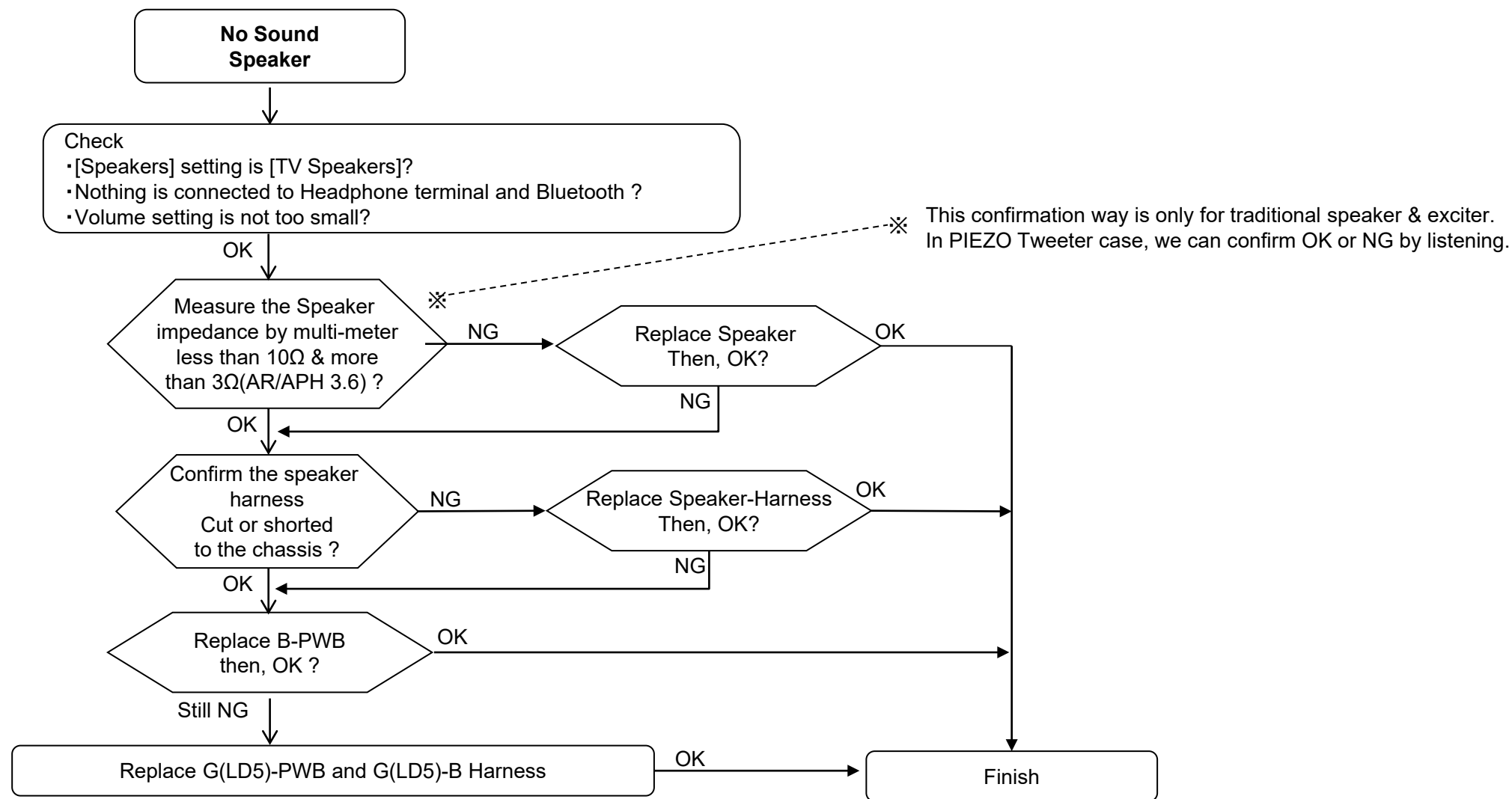


2.8 8x LED Blinking – 4KBE_ERR



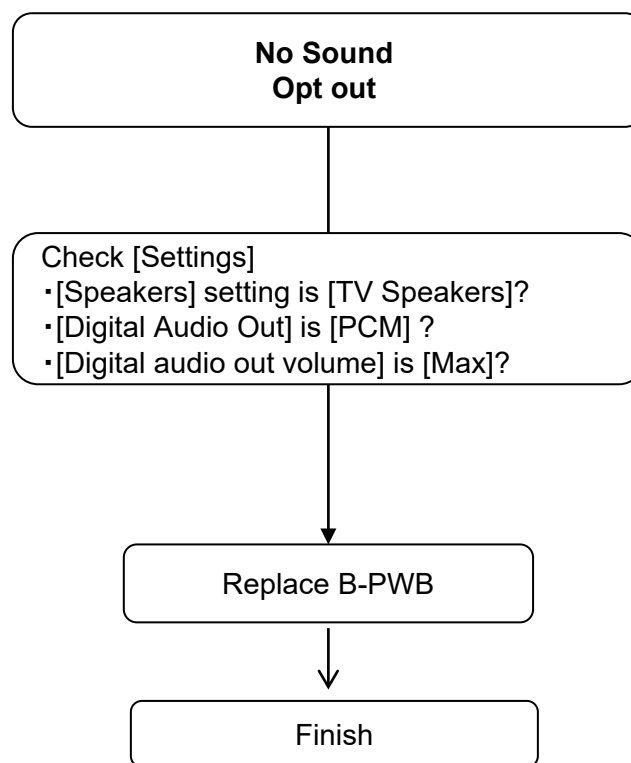
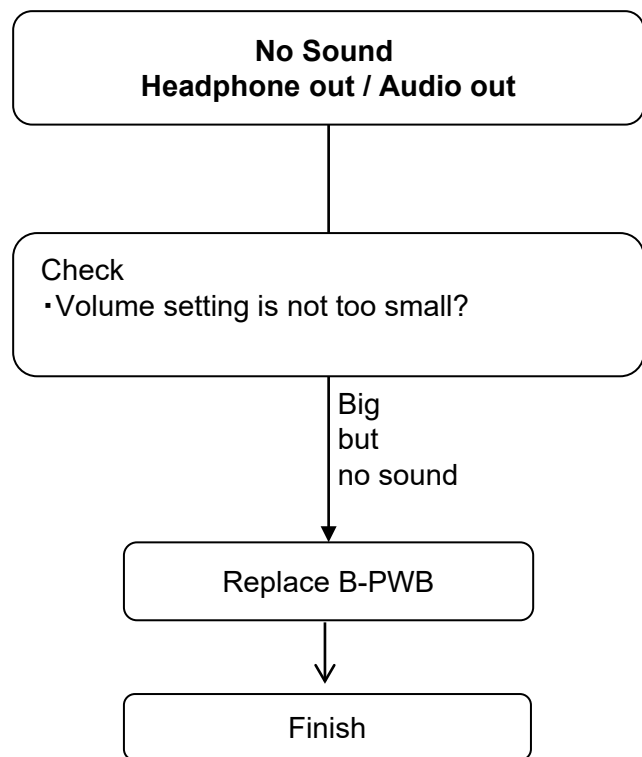
TROUBLESHOOTING

3.1 No Sound – Speaker



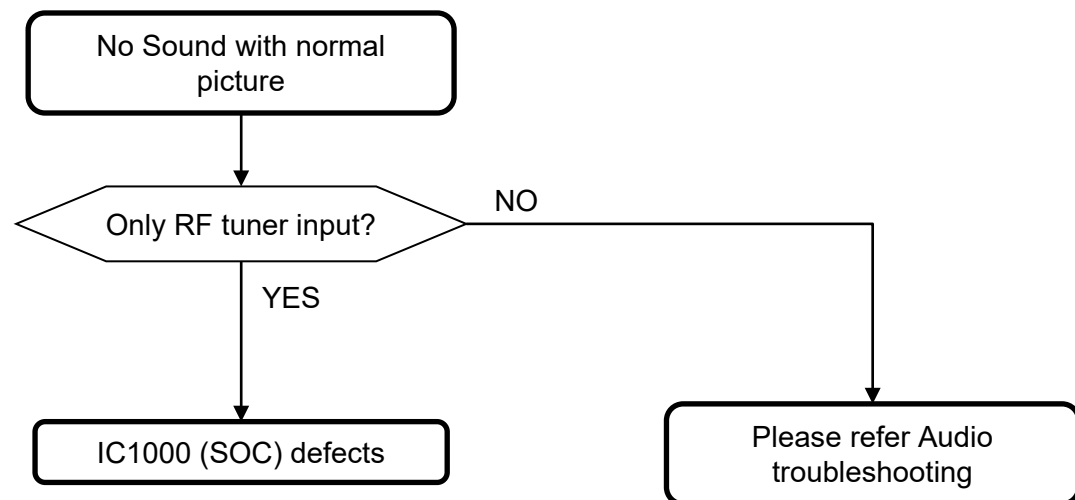
TROUBLESHOOTING

3.2 No Sound – Headphone / Audio / Opt Out

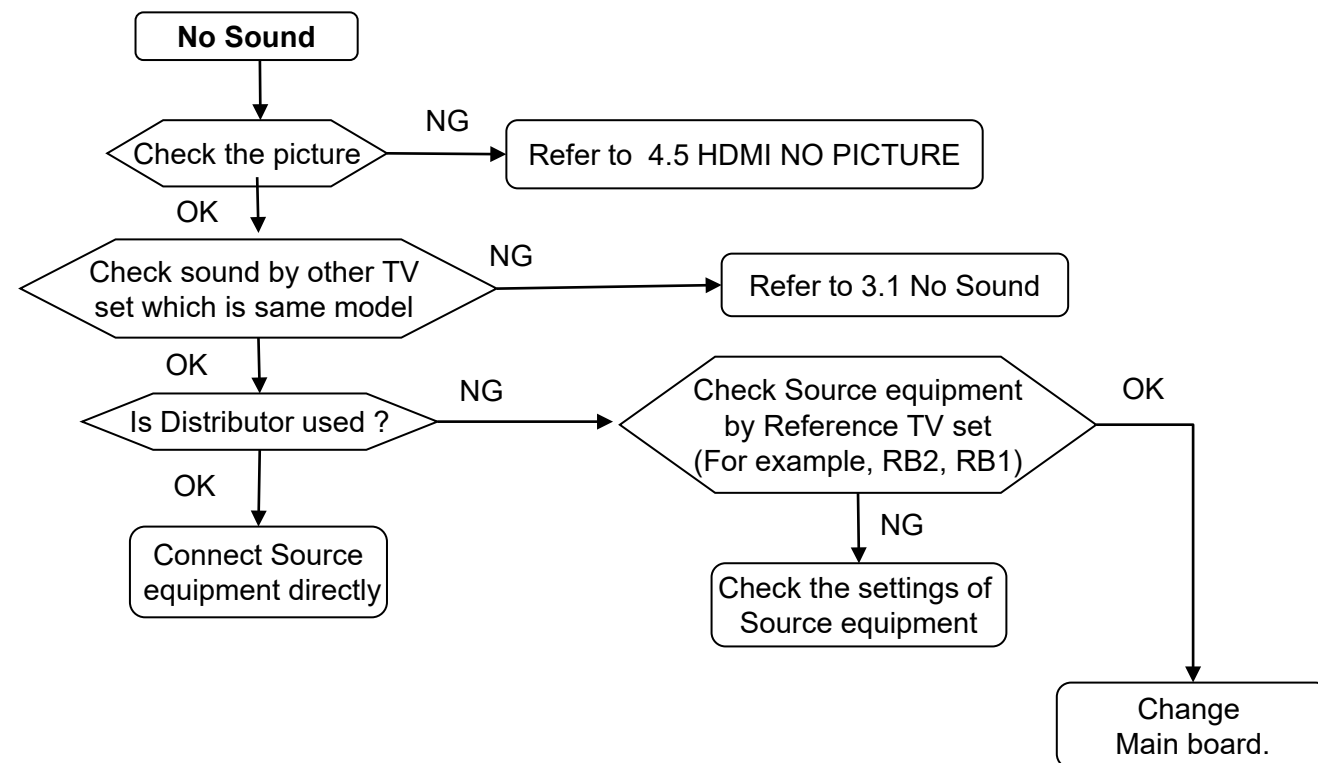


TROUBLESHOOTING

3.7 No Sound – Tuner

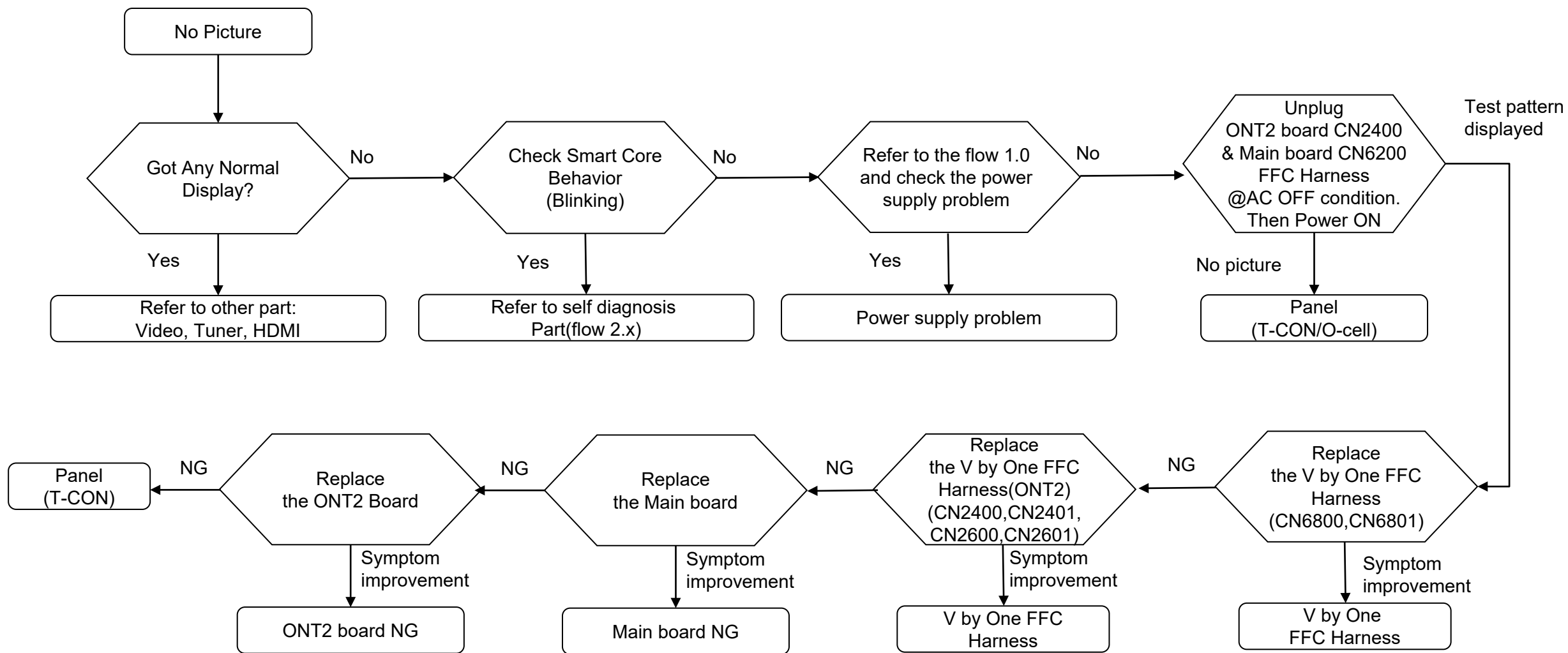


3.8 No Sound – HDMI 1/2/3/4



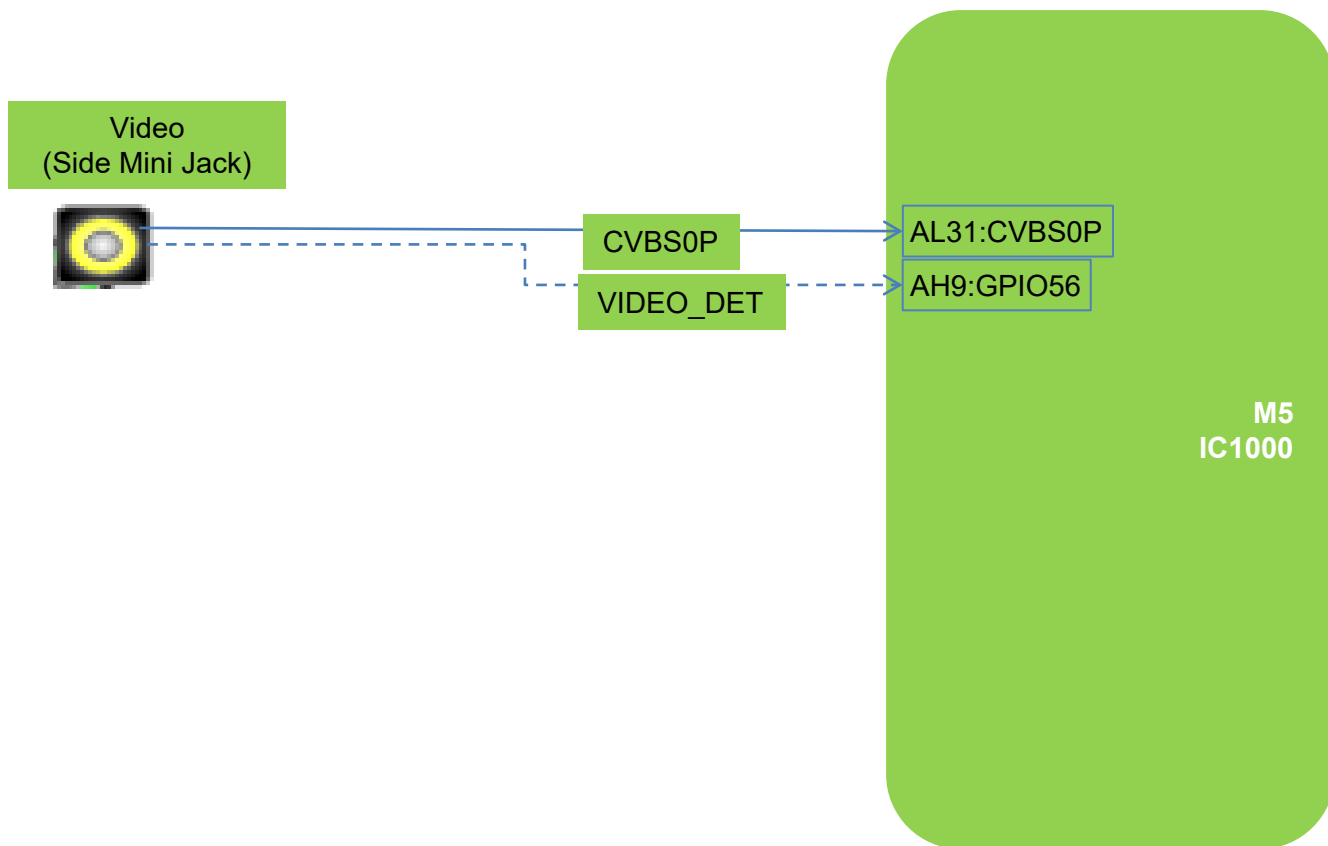
TROUBLESHOOTING

4.0 No Picture



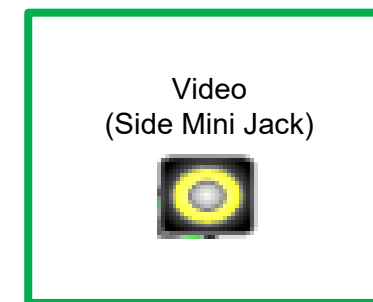
TROUBLESHOOTING

4.1 Video Analog Signal Path



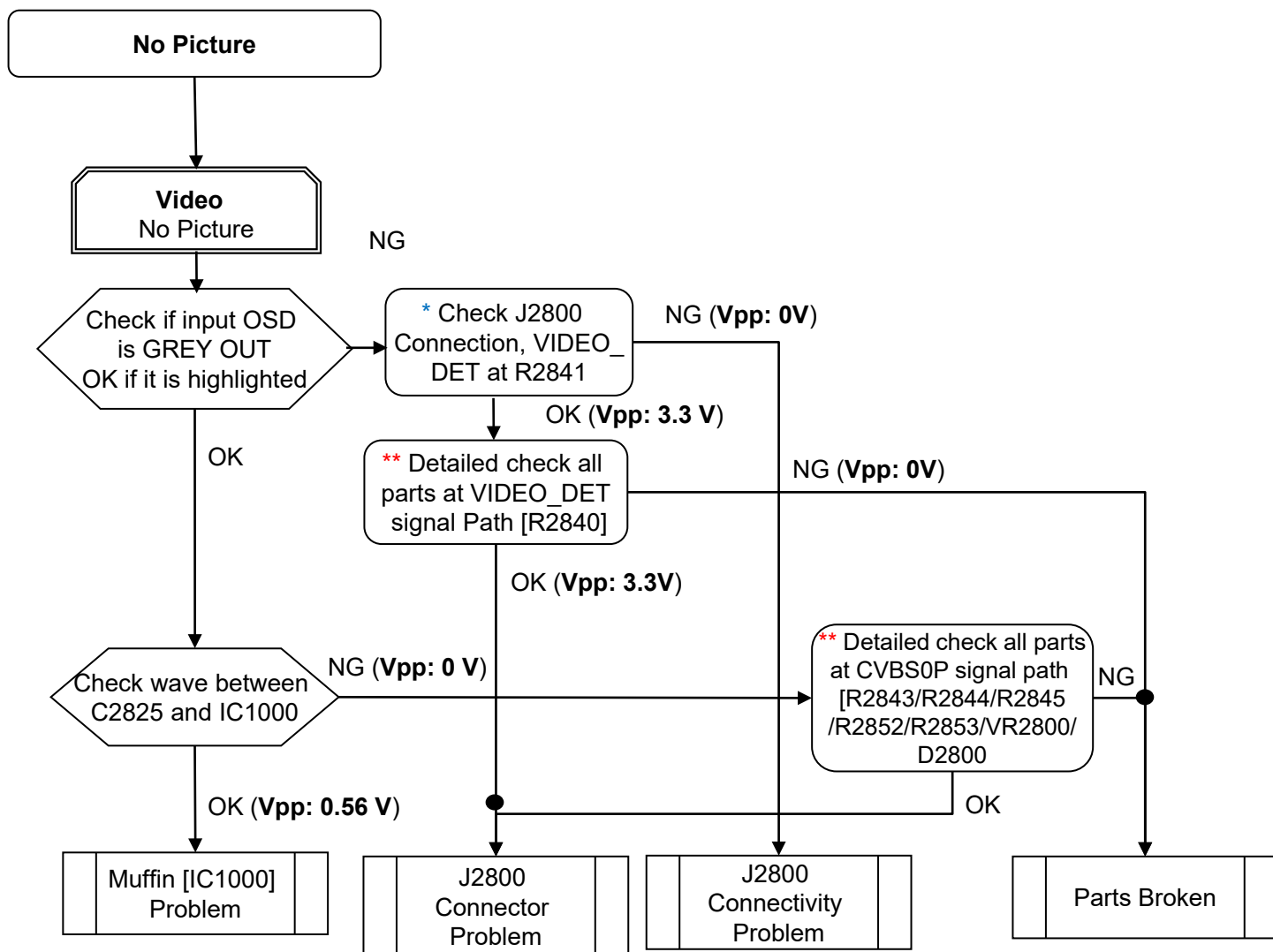
Input Skip Function

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



TROUBLESHOOTING

4.2 No Picture



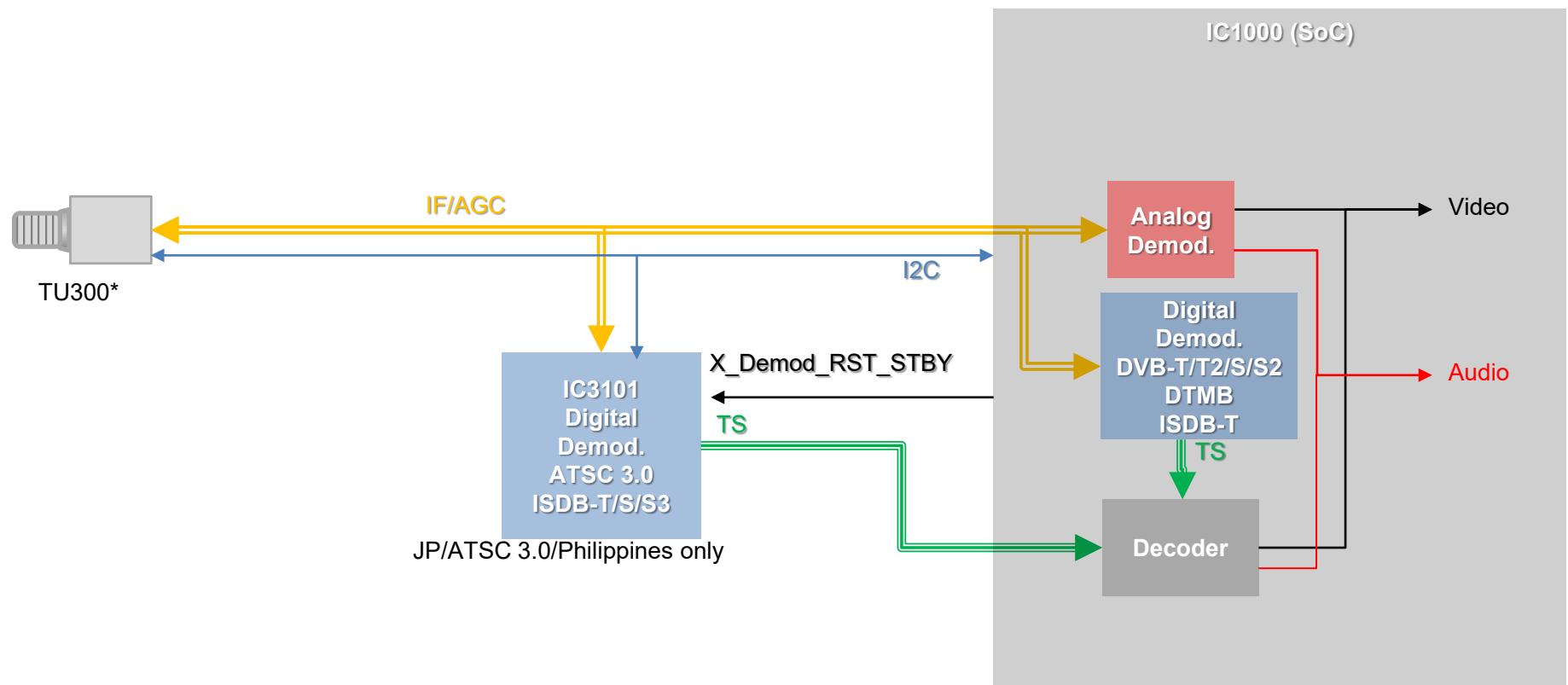
Condition	Actions to be taken
Muffin [IC1000] Problem	Refer to IC troubleshooting for further investigation
J2800 Connector Problem	Change Connector
J2800 Connectivity Problem	
Parts Broken	Change Part

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

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

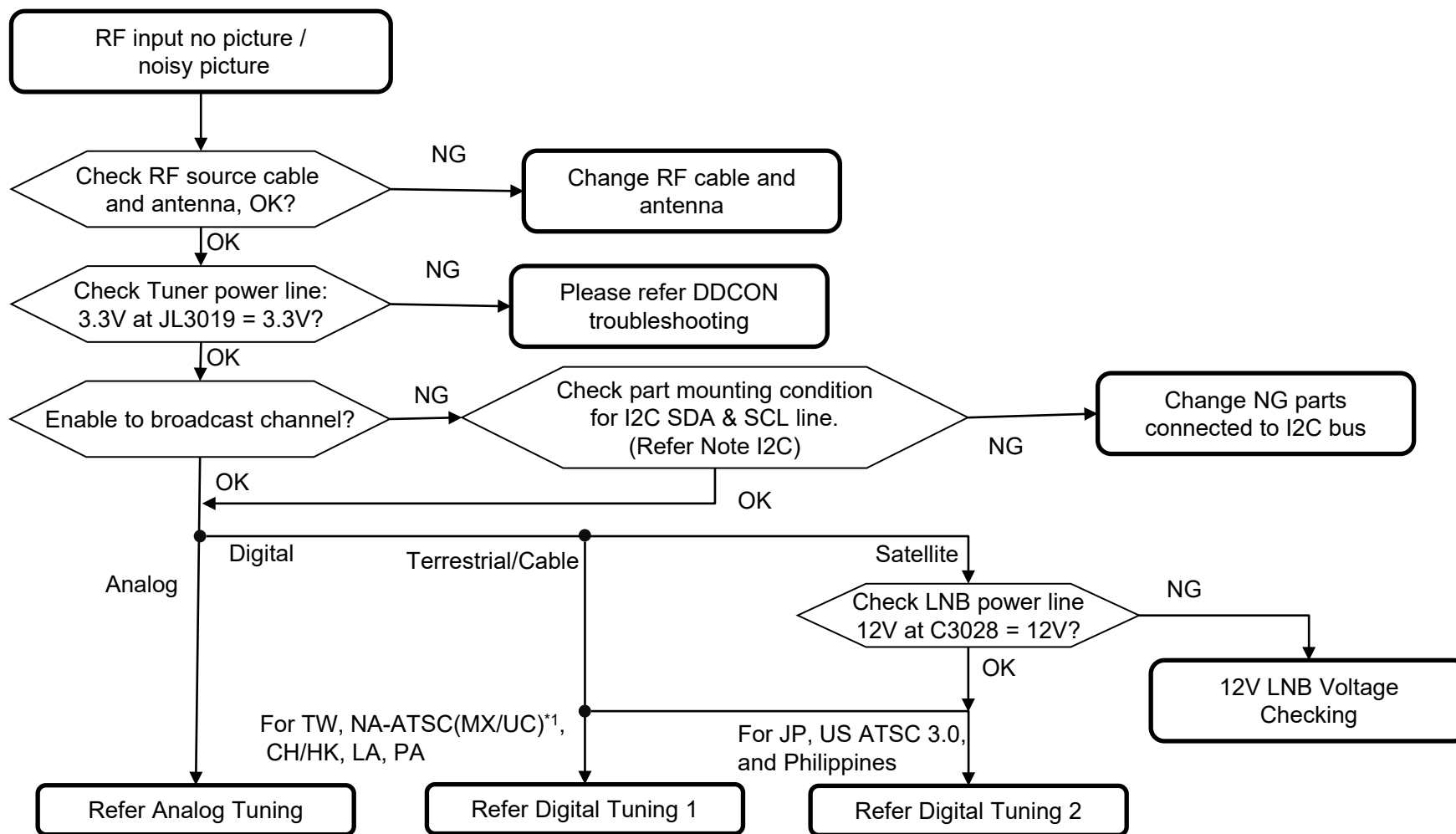
TROUBLESHOOTING

4.4 No Picture - Tuner



TROUBLESHOOTING

4.4 No Picture - Tuner



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: Demodulator
 - Digital Tuning 1 : SoC inside demodulator
 - Digital Tuning 2 : On board demodulator

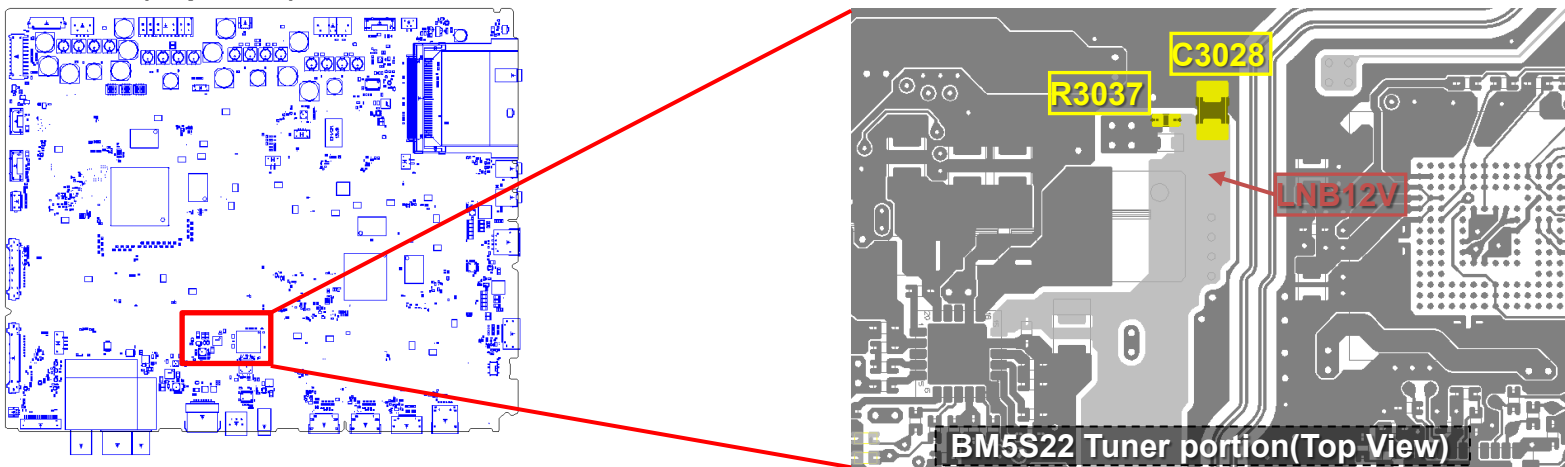
*1 : Except US ATSC3.0, Please refer Digital Tuning 2

TROUBLESHOOTING

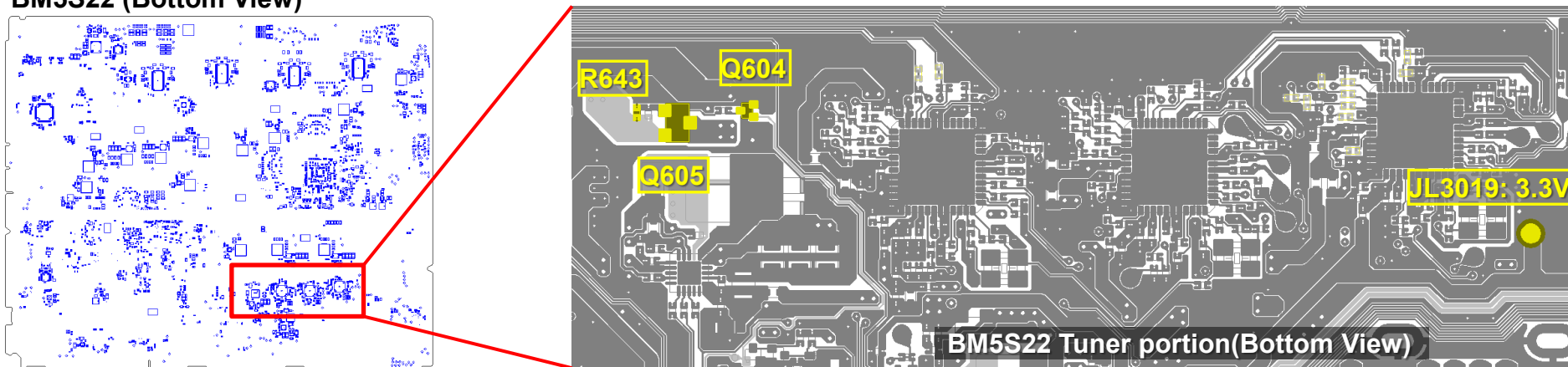
4.4 No Picture - Tuner

*I2C: Please refer Digital Tuning

BM5S22 (Top View)



BM5S22 (Bottom View)



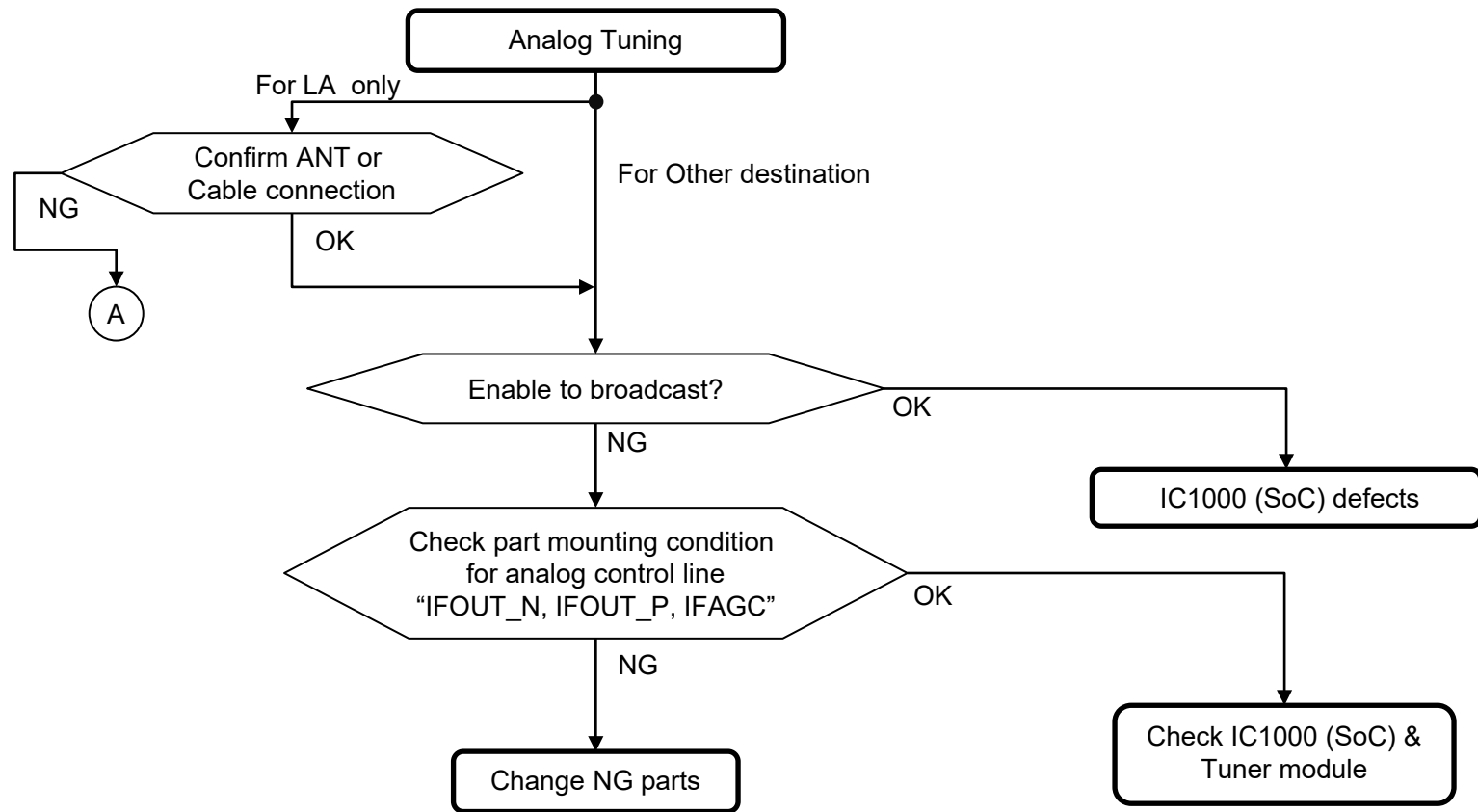
TROUBLESHOOTING

4.4 No Picture - Tuner

FOR ANALOG TUNING

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

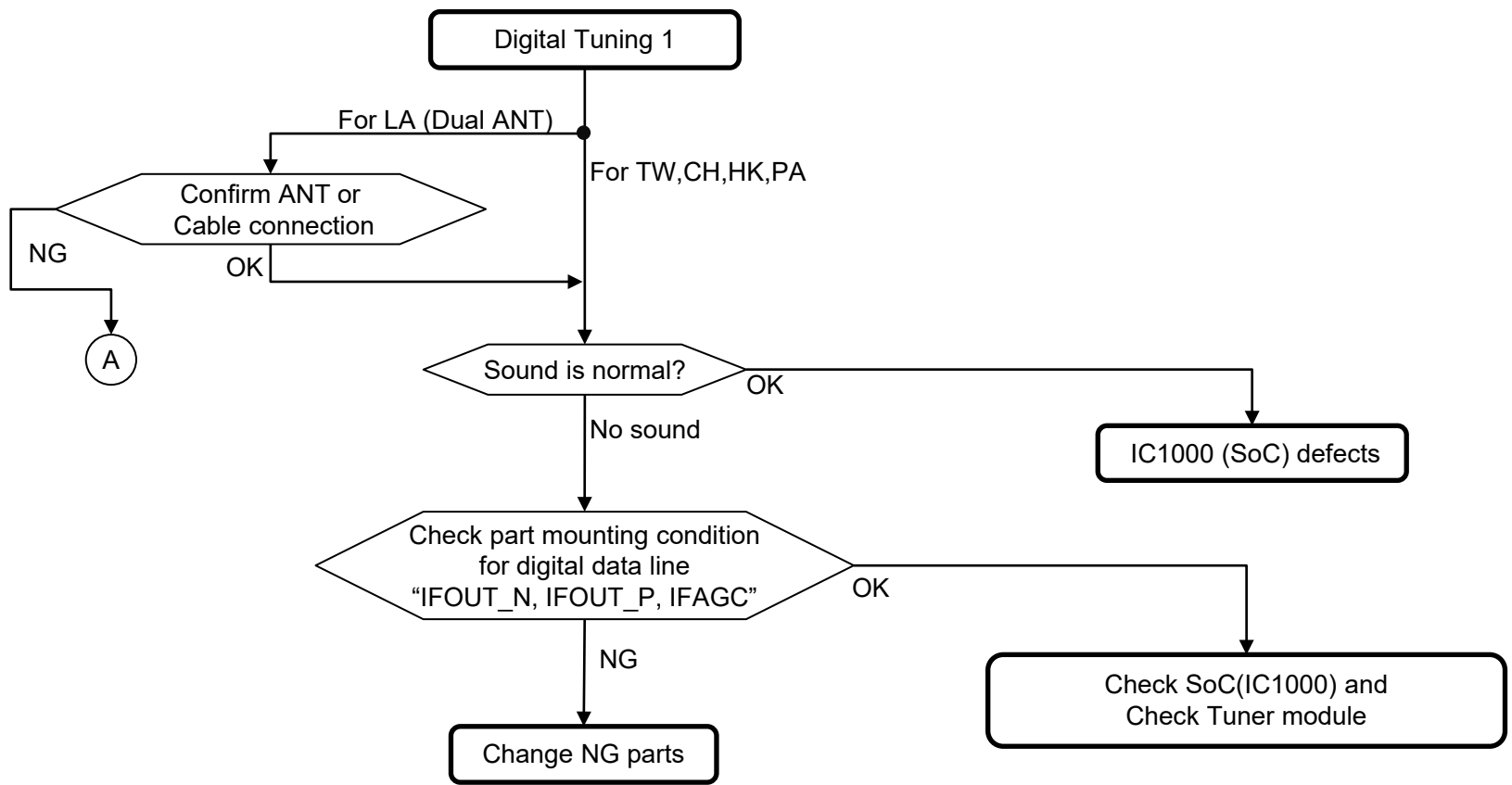
(A) Insert correct signal in correct ANT terminal.



TROUBLESHOOTING

4.4 No Picture - Tuner

FOR DIGITAL TUNING 1: @ For TW,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.

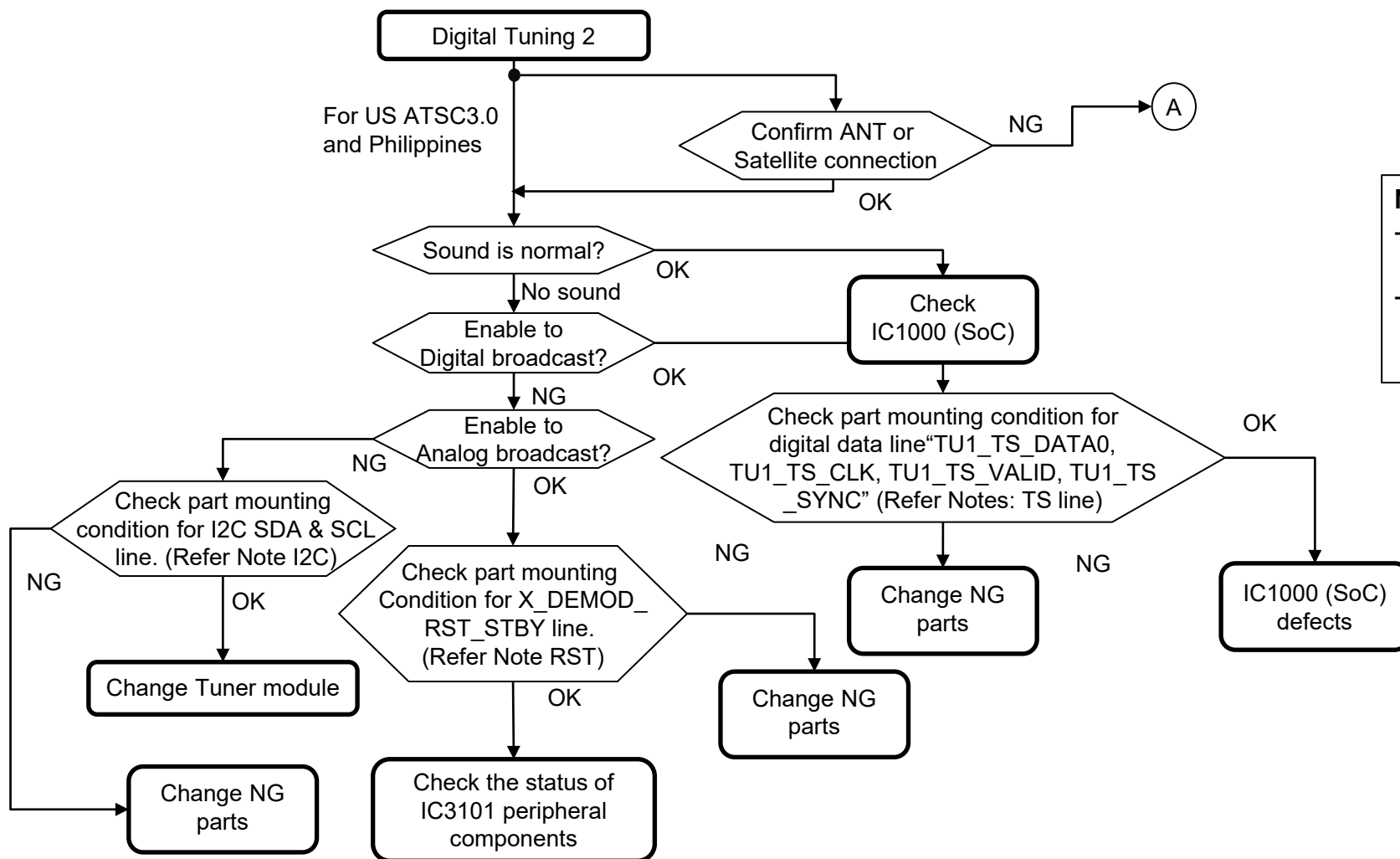
TROUBLESHOOTING

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/RB3001
 - TS line parts for JP :
 R3113/R3114/R3116/R3117/R3120/R3121/R3122/R3123/
 R3027/RB3001

(A) Insert correct signal in correct ANT terminal.

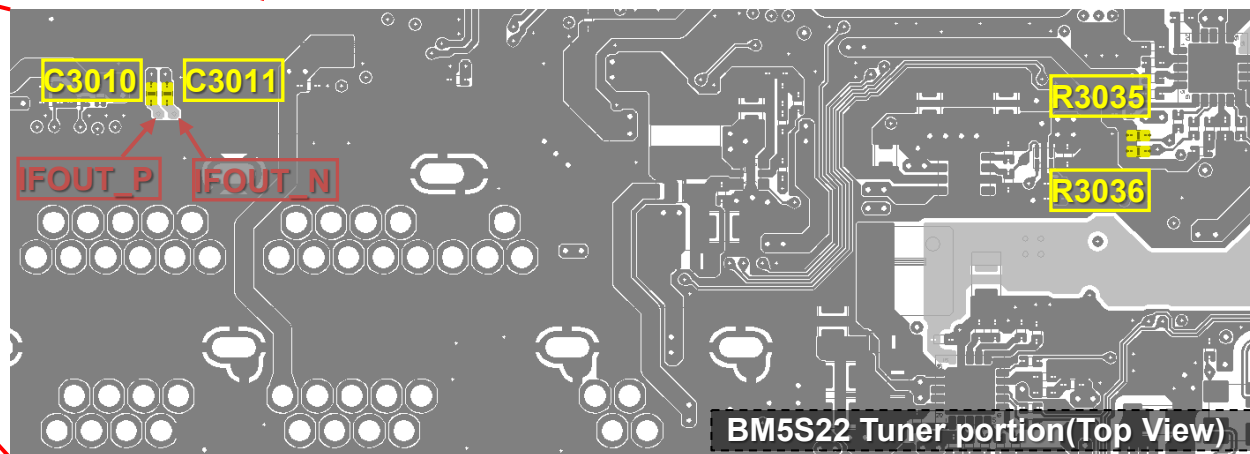
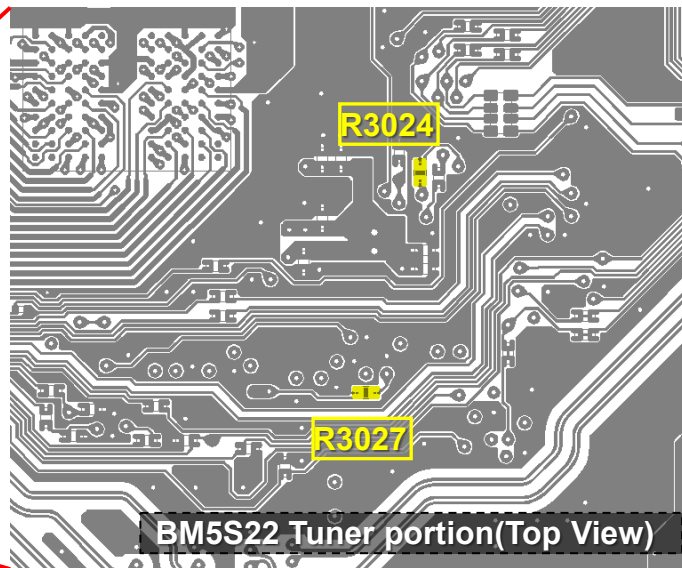
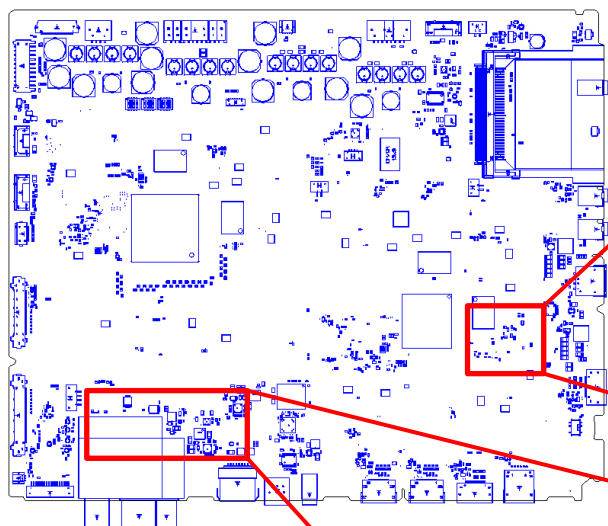
Notes: RST
 - Parts for X_DEMOD_RST line:
 R3109, C3117

 Voltage confirmation point
 C3117 = 3.3V

TROUBLESHOOTING

4.4 No Picture - Tuner

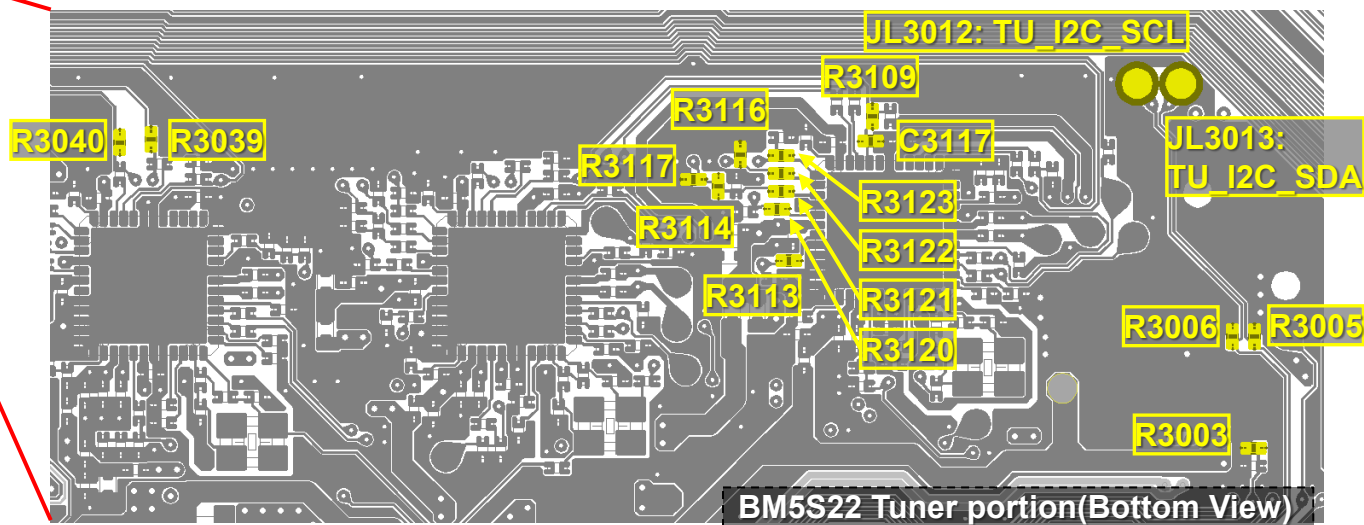
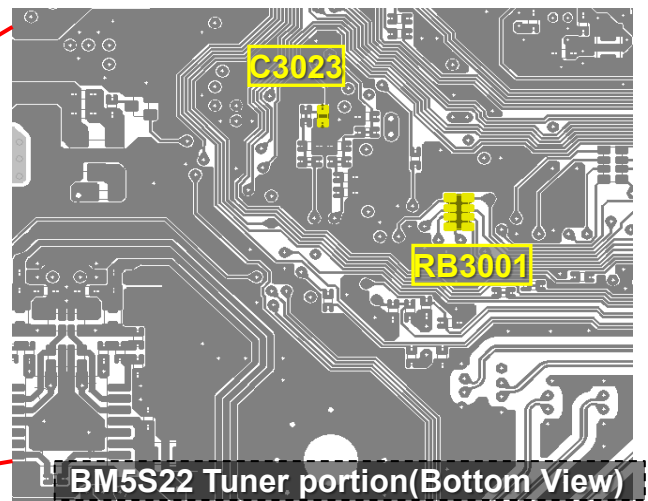
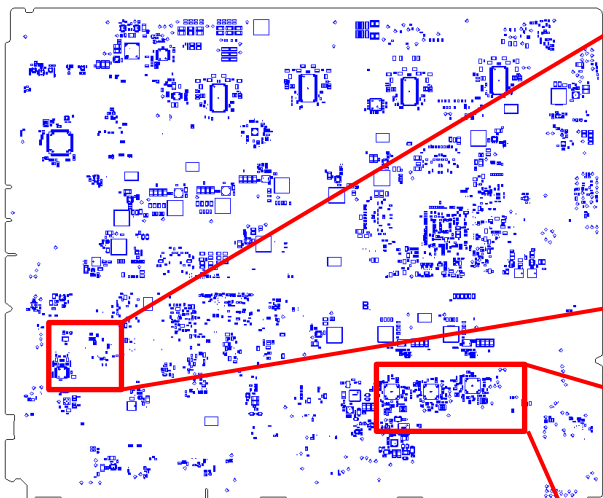
BM5S22 (Top View)



TROUBLESHOOTING

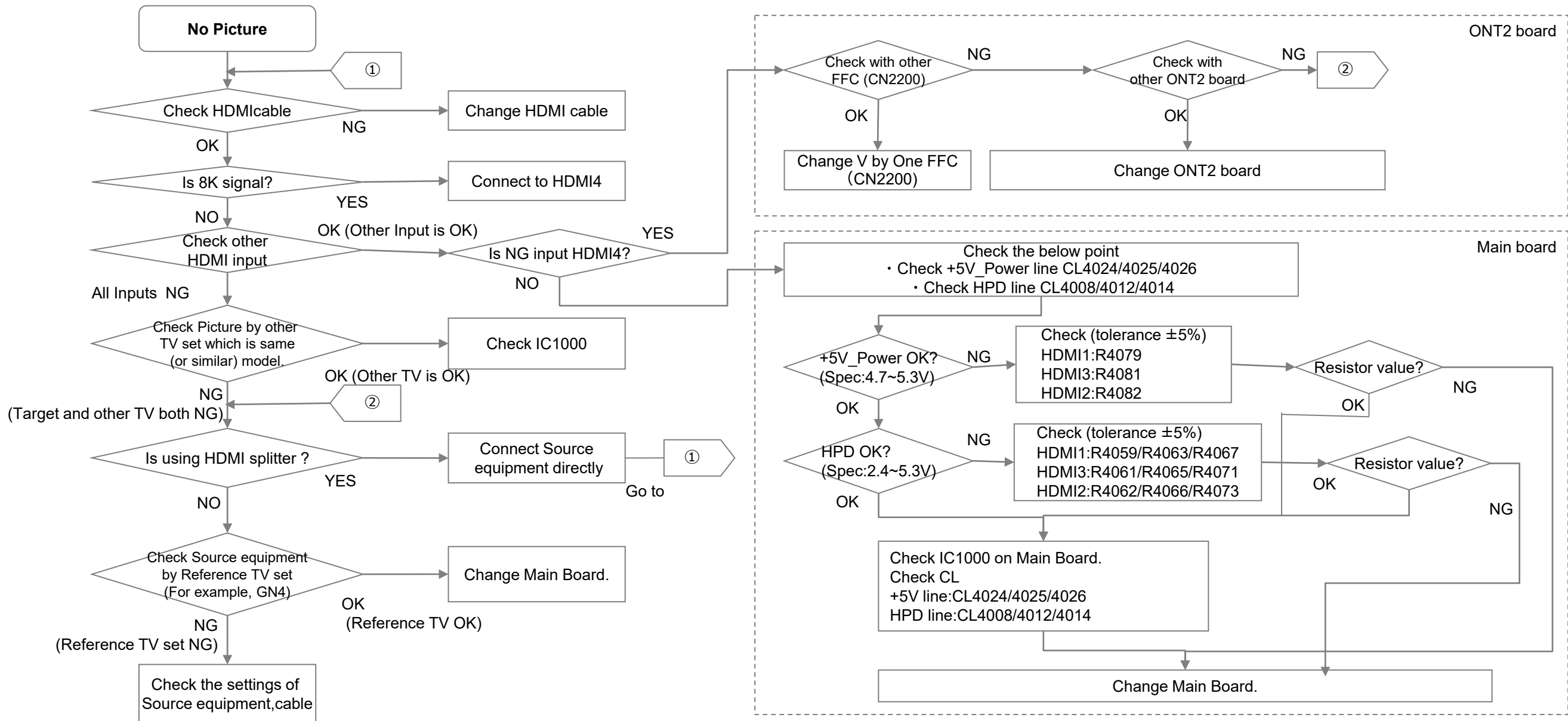
4.4 No Picture - Tuner

BM5S22 (Bottom View)



TROUBLESHOOTING

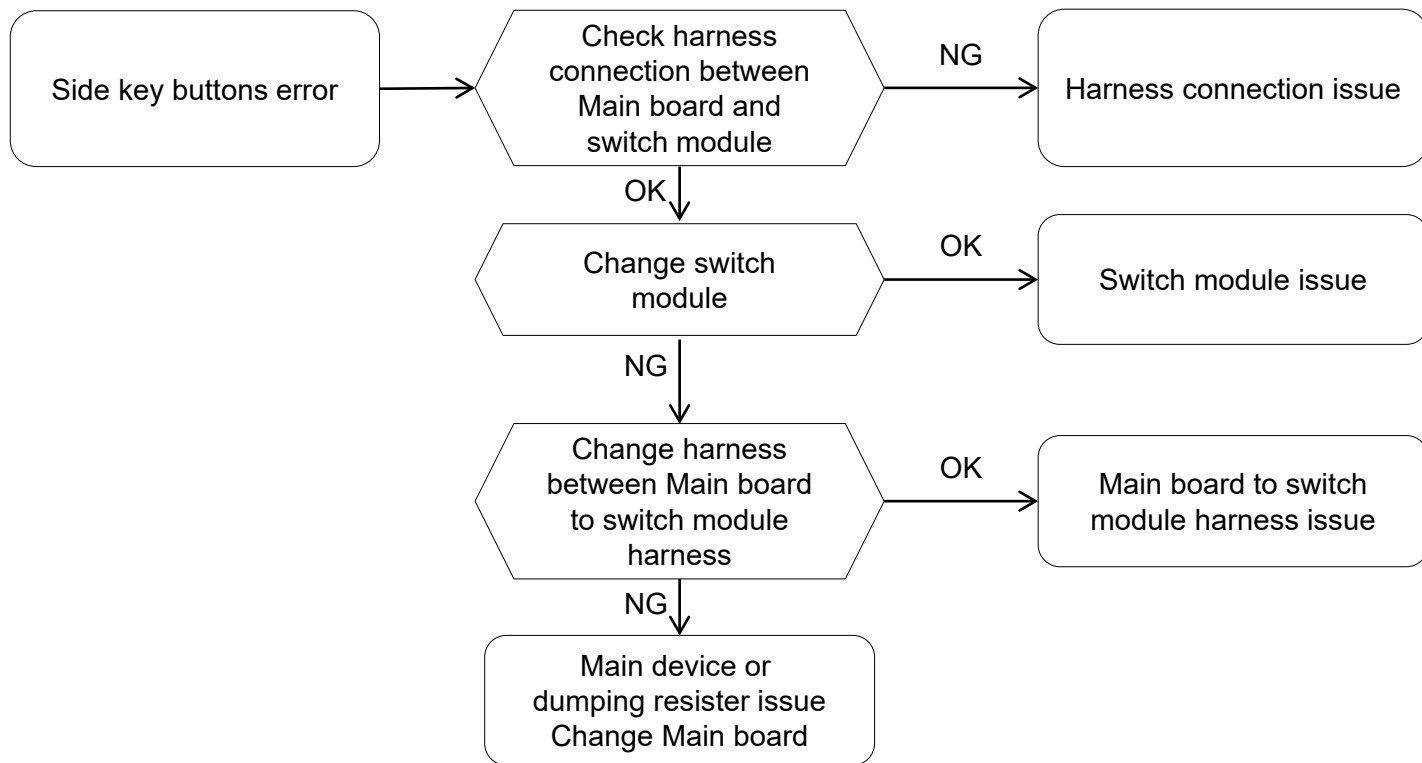
4.5 No Picture – HDMI 1/2/3/4



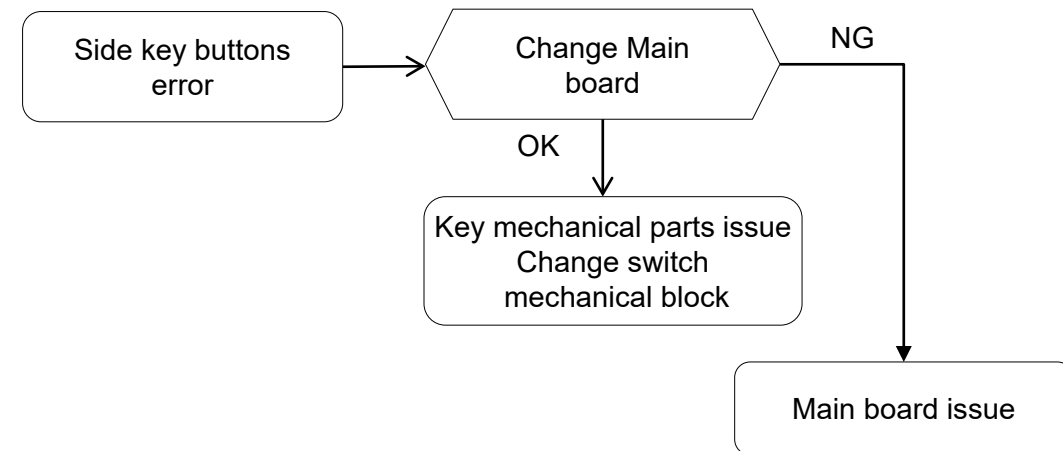
TROUBLESHOOTING

5.0 Key Switch – Buttons Error

Switch Module Type

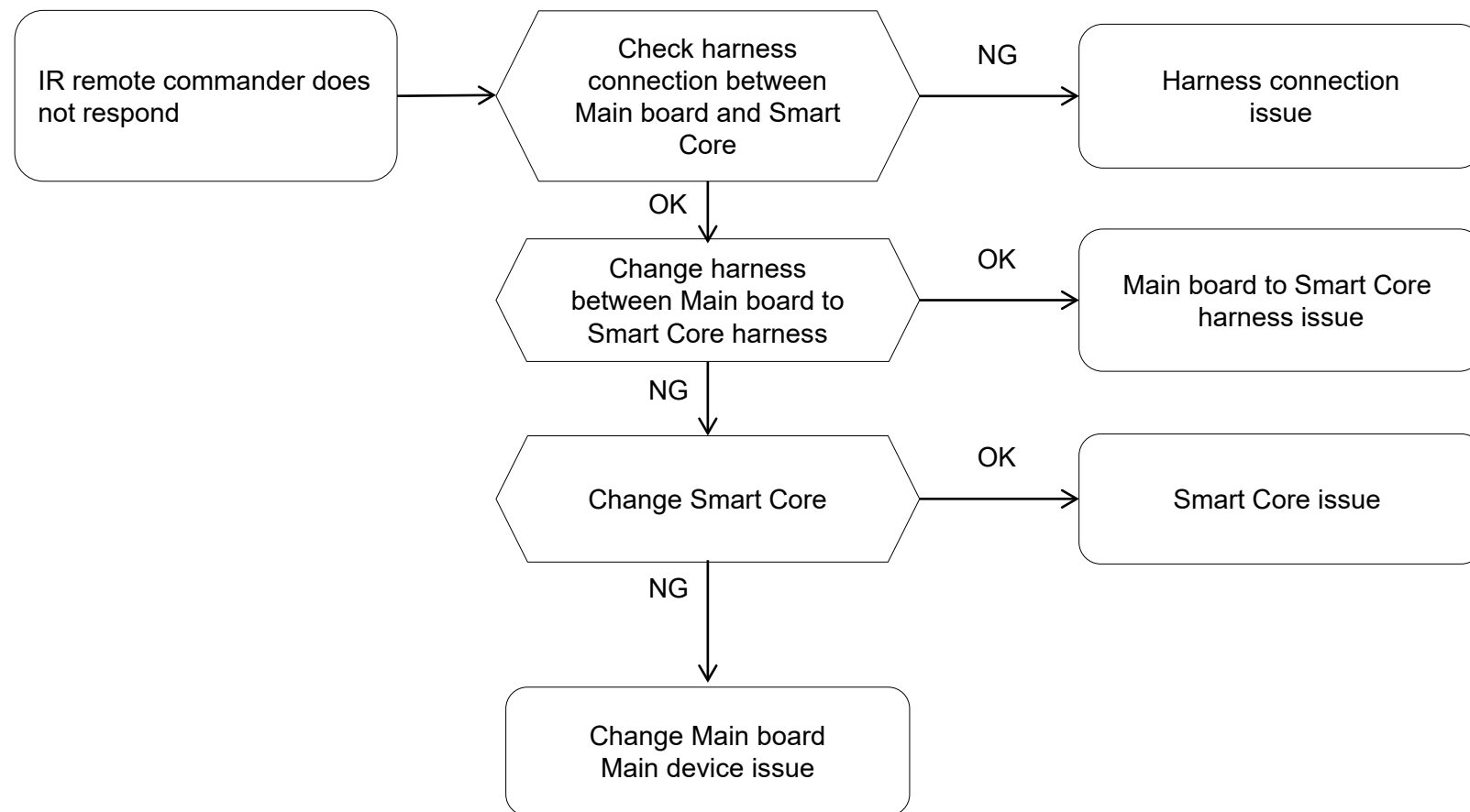


On Board Switch Type



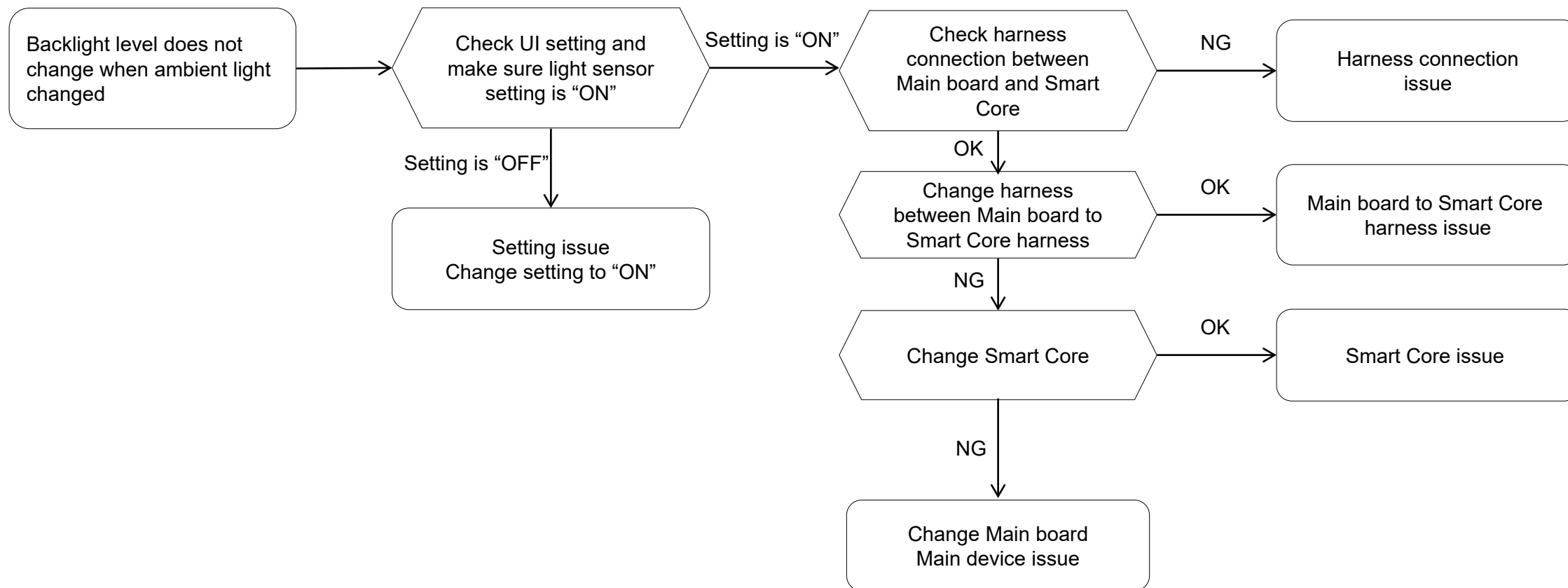
TROUBLESHOOTING

5.1 IR Remote Commander Error



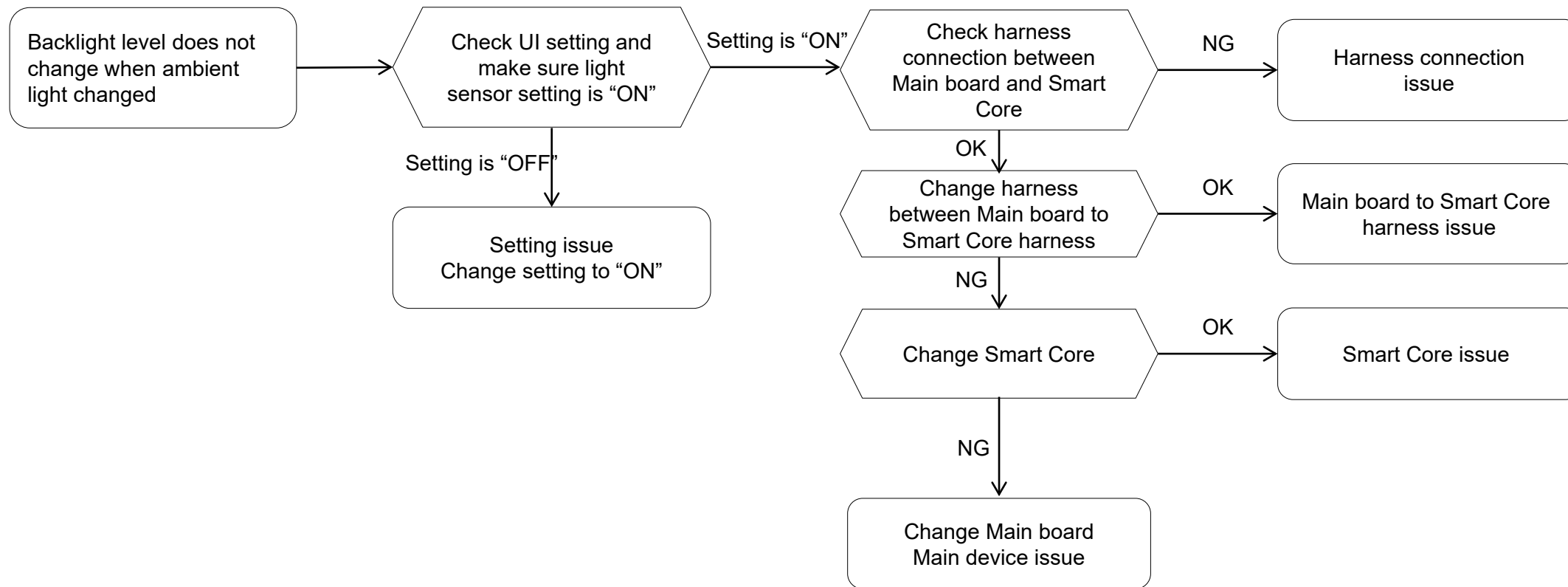
TROUBLESHOOTING

5.2 Light Sensor Error



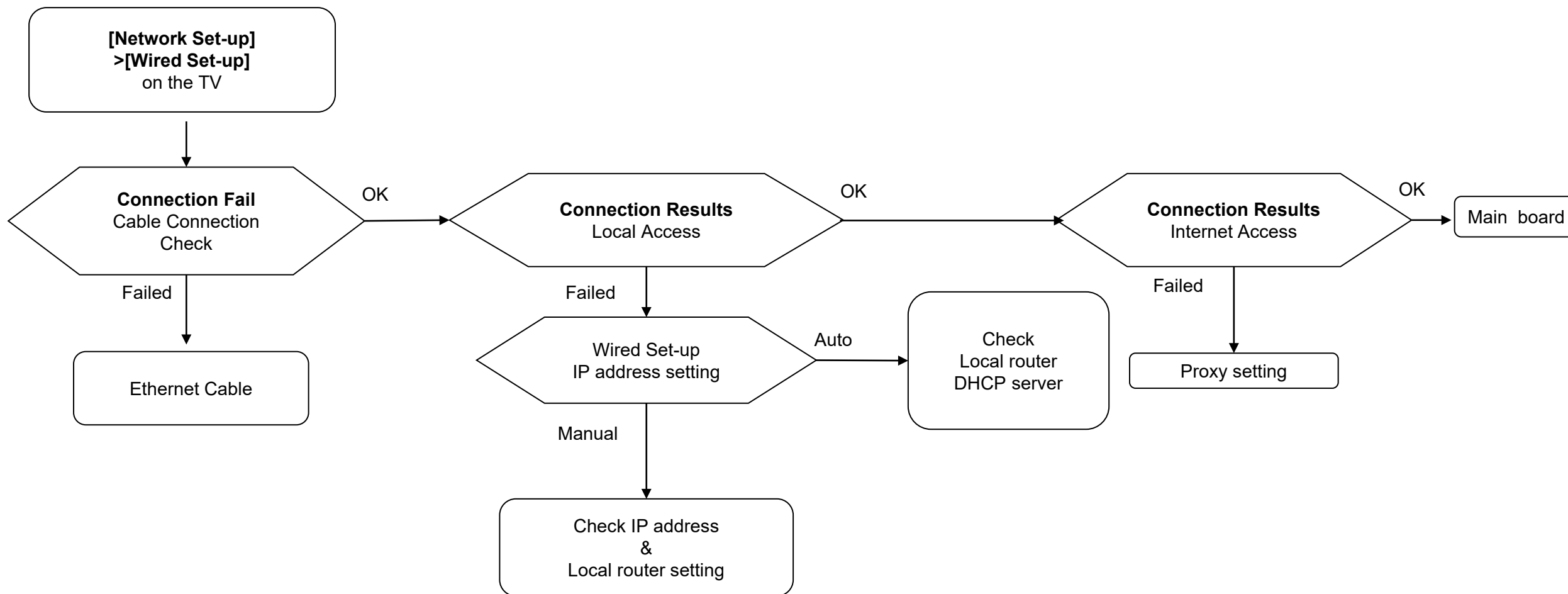
TROUBLESHOOTING

5.3 CAS ID Unknown



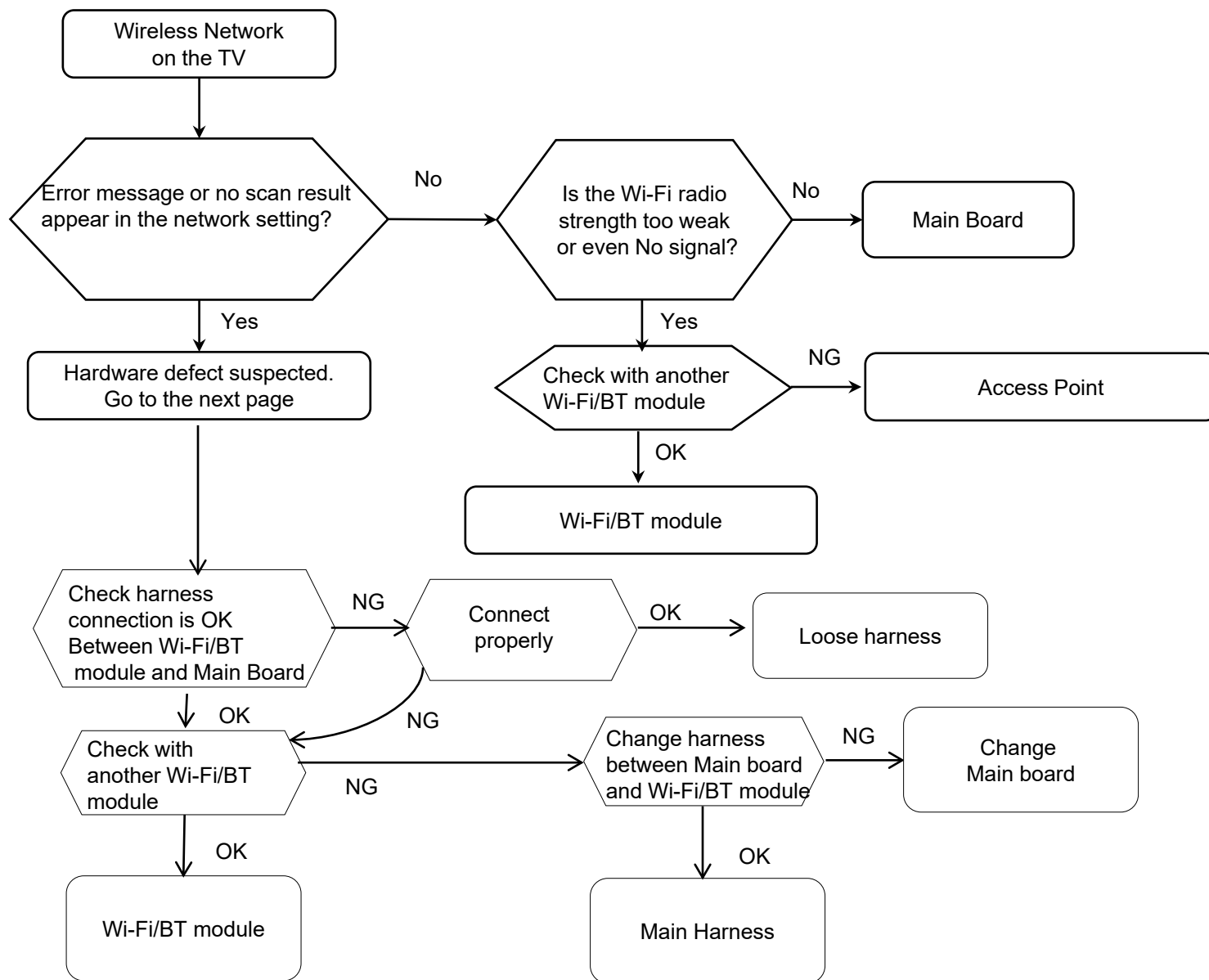
TROUBLESHOOTING

6.0 Network Malfunction – Ethernet Wired



TROUBLESHOOTING

6.2 Wireless Network Malfunction

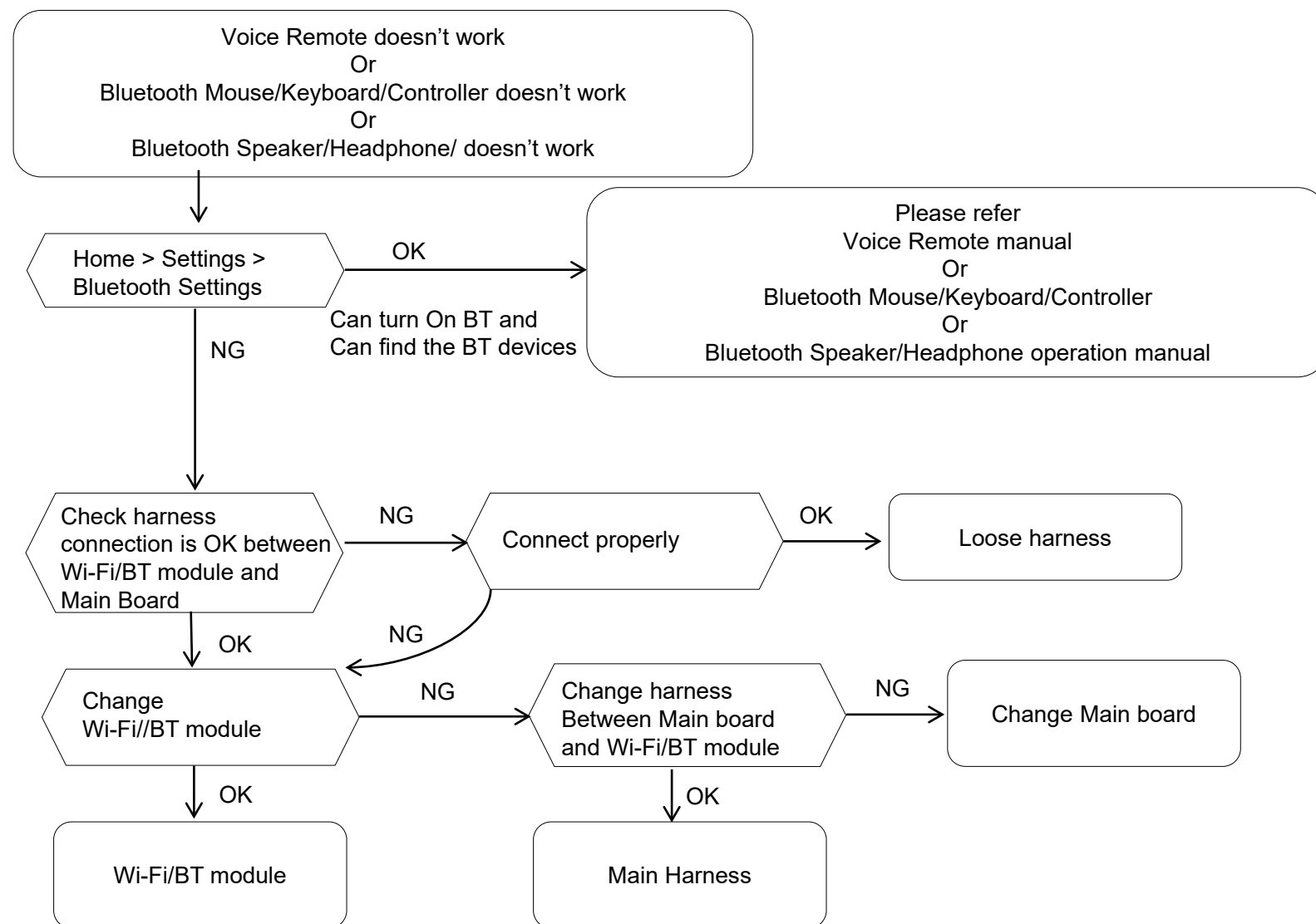


If Wi-Fi malfunction happens,

- Wi-Fi/BT module
- Harness between Wi-Fi/BT and Main Board are suspected.

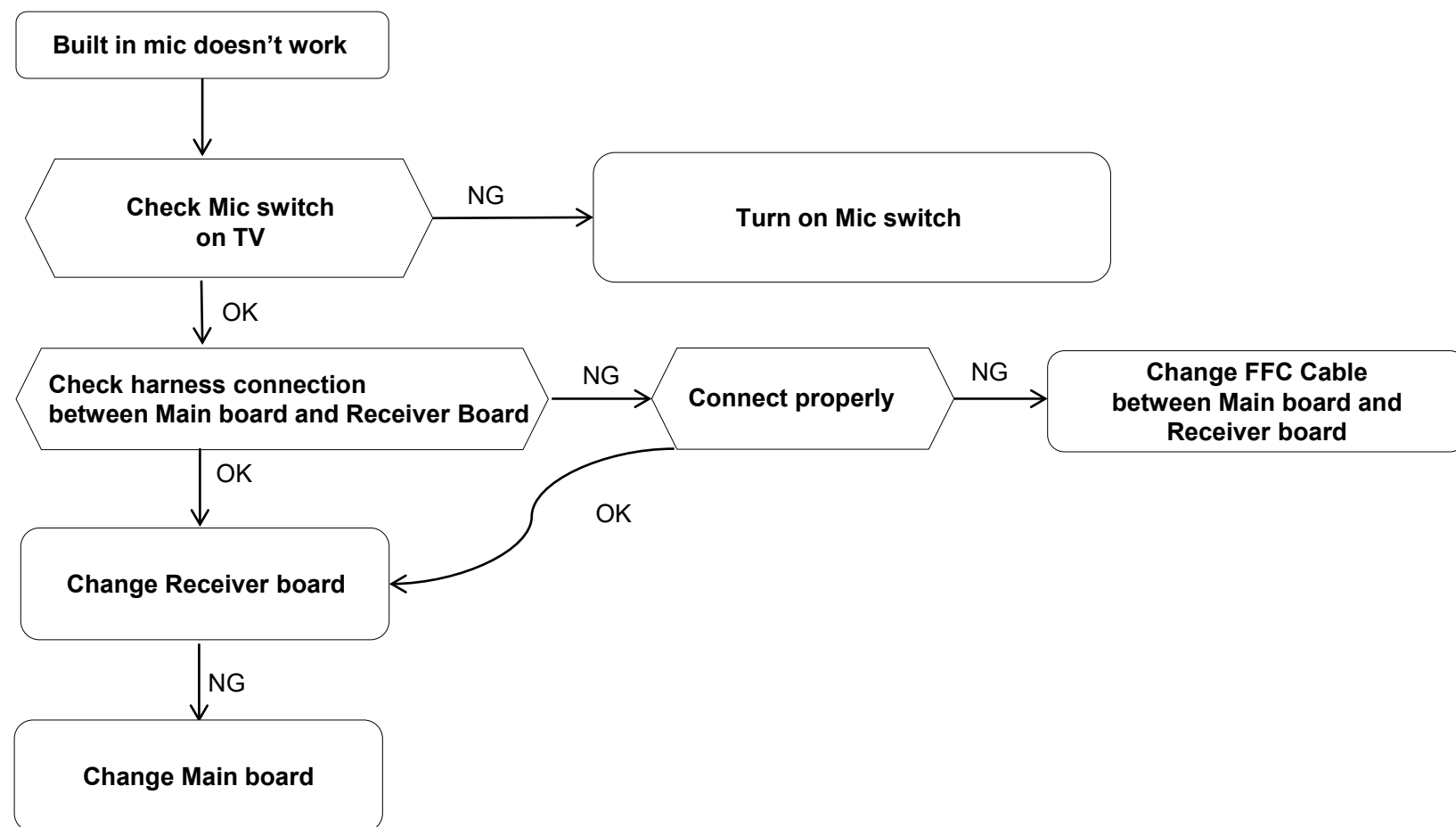
TROUBLESHOOTING

6.3 Bluetooth Malfunction



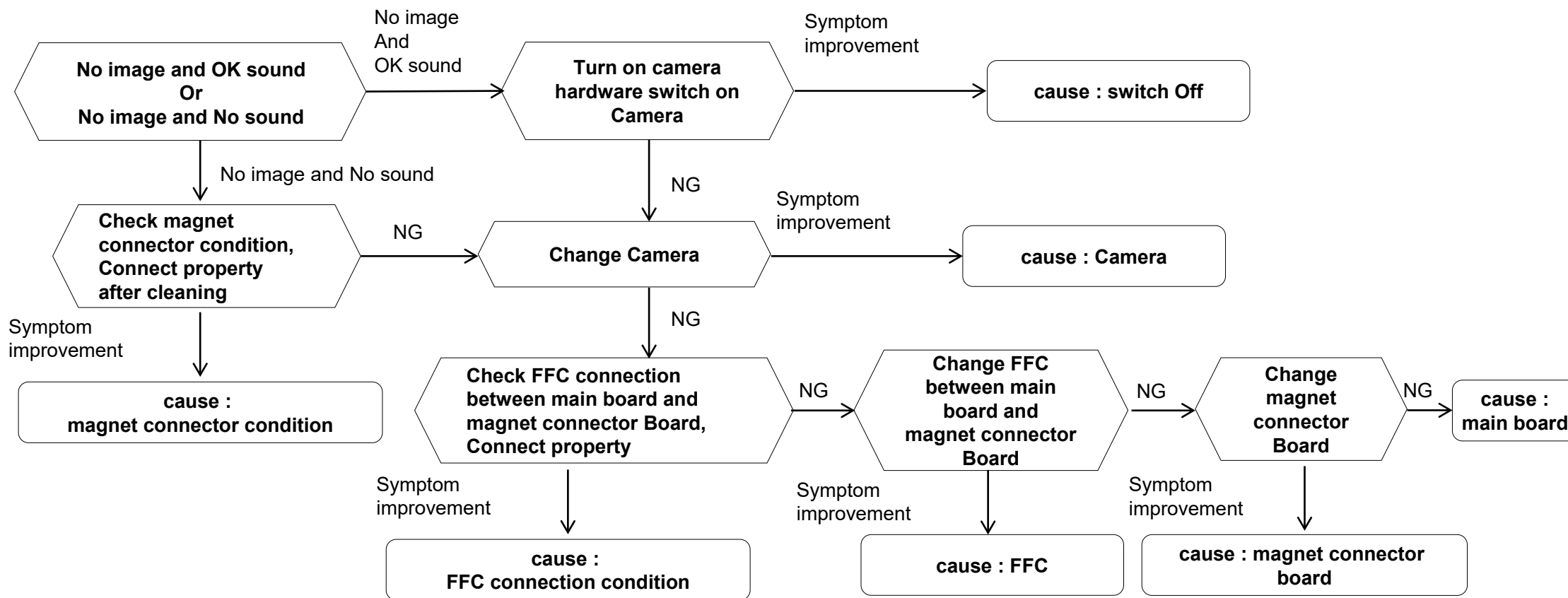
TROUBLESHOOTING

6.4 Built in MIC Malfunction



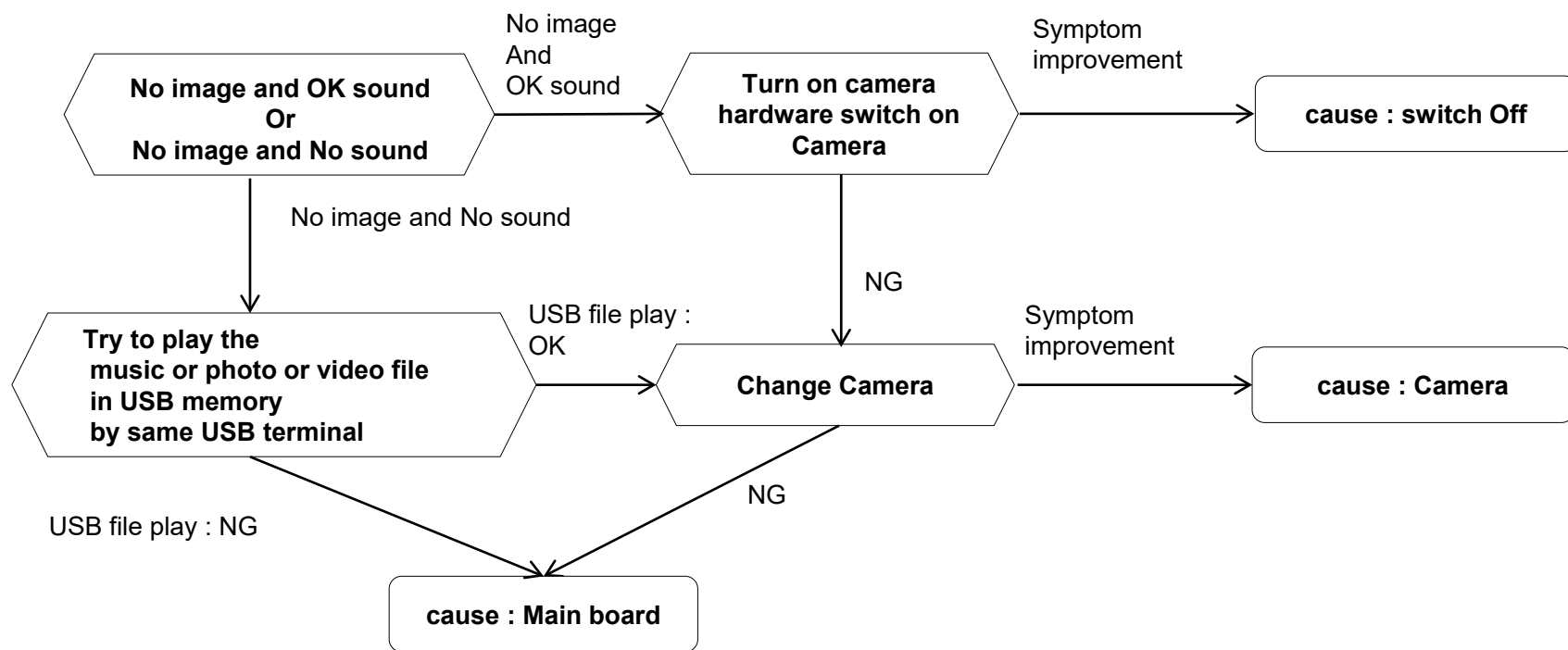
TROUBLESHOOTING

6.5 Magnet connector type Camera (Bundle)



TROUBLESHOOTING

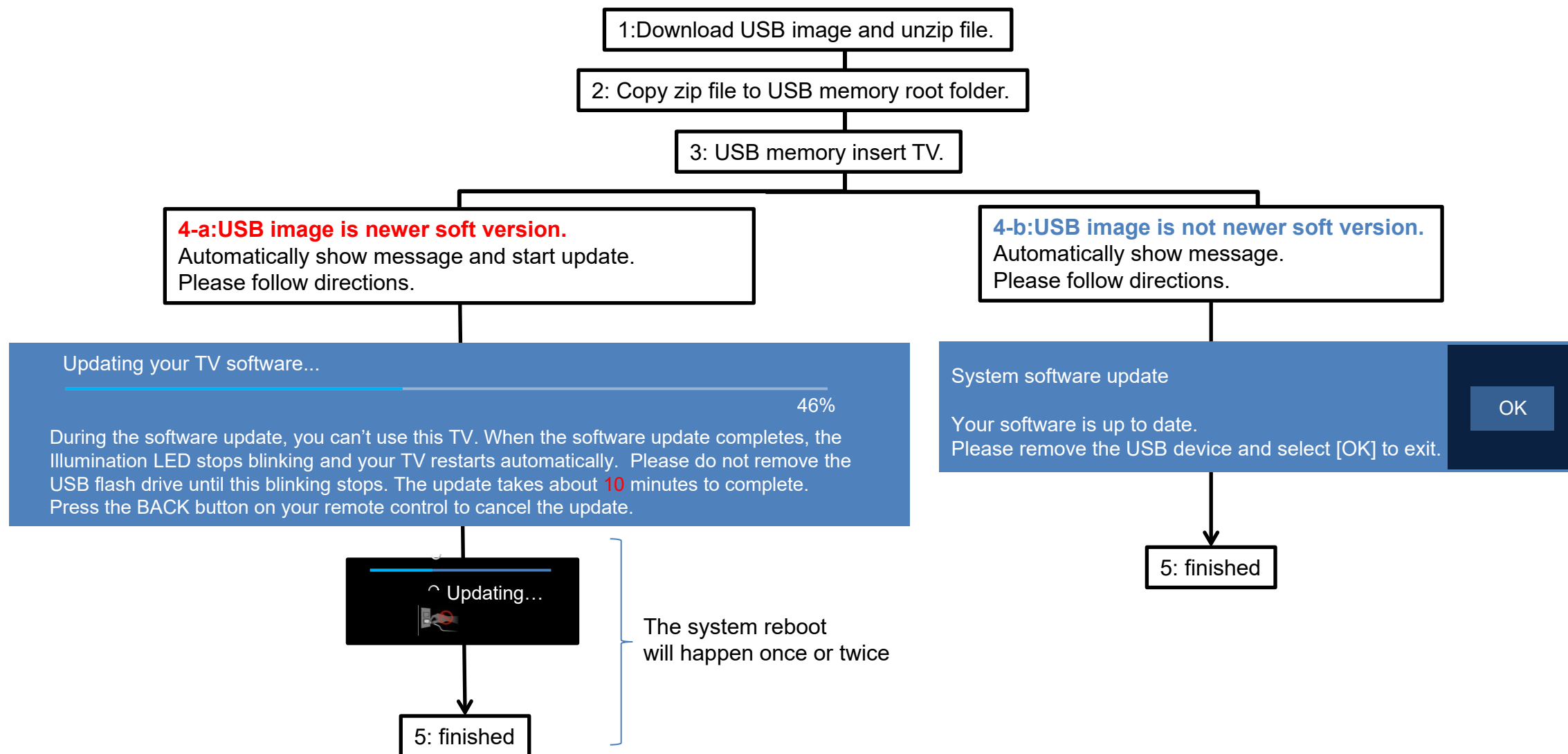
6.5 USB connector type Camera (Accessory)



SOFTWARE UPDATE & RESET

Caution: DO NOT power off while the update is in progress.

USB Update

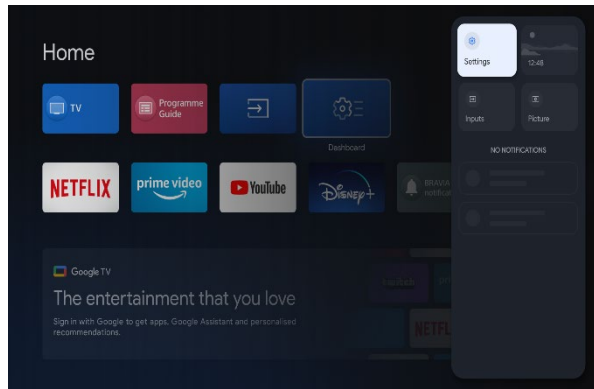


※ Display may change depending on the model / SW version.

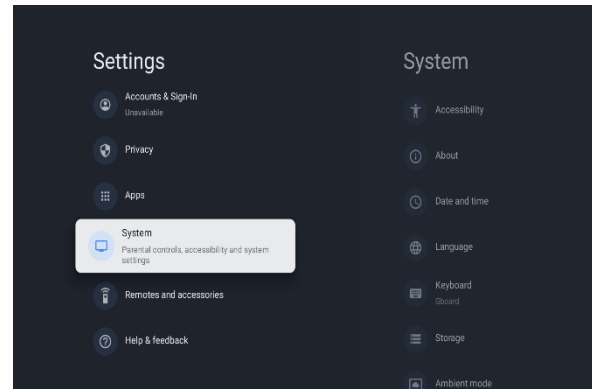
SOFTWARE UPDATE & RESET

How to do Factory Data Reset – with UI Method

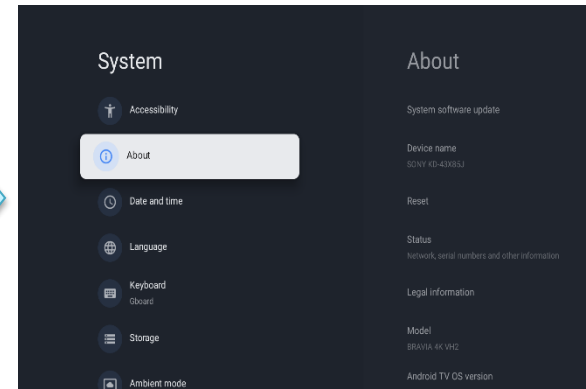
1) At Home Menu, go to Settings



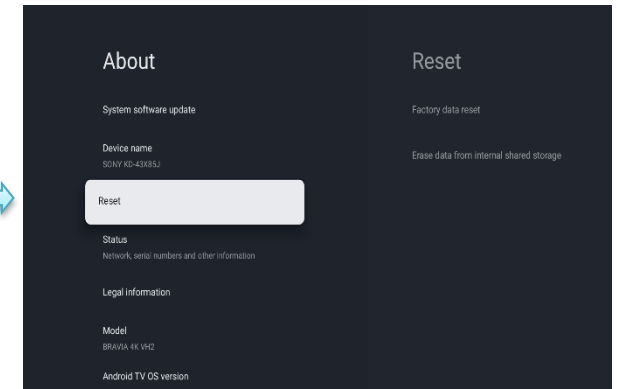
2) Select System/Device Preferences



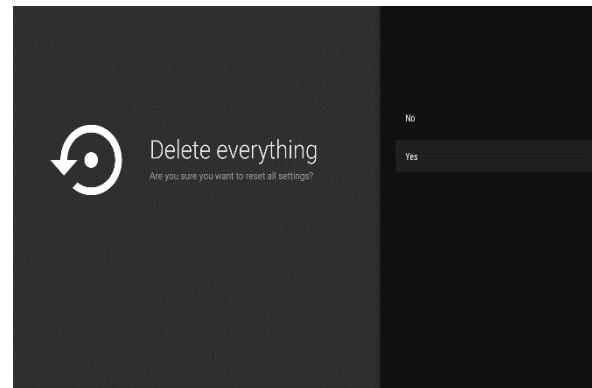
3) Select 'About'



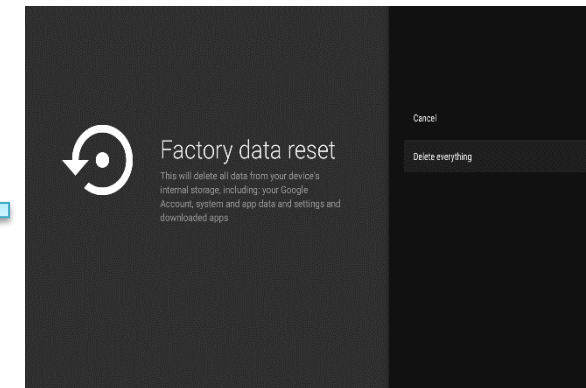
4) In About, Select 'Reset'



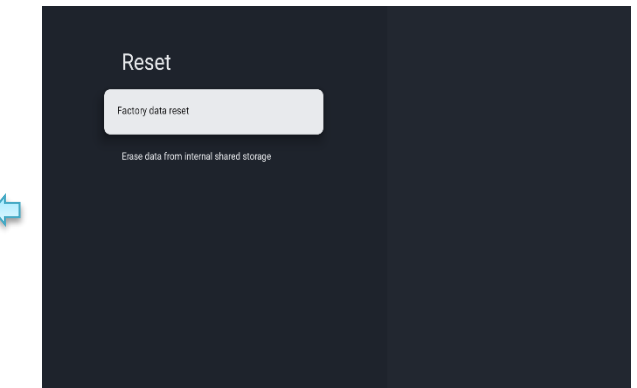
7) Select 'Yes'



6) Select 'Delete everything'



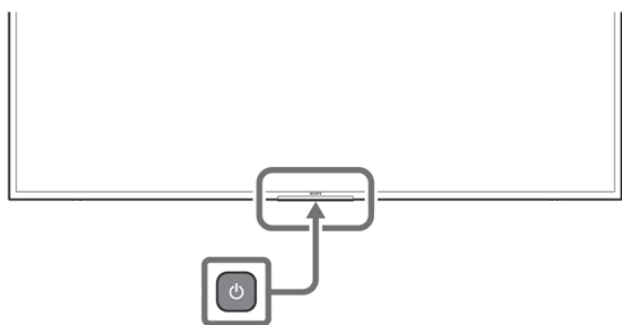
5) In Reset, Select 'Factory data reset'



SOFTWARE UPDATE & RESET

Factory Data Reset – force method (without UI)

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



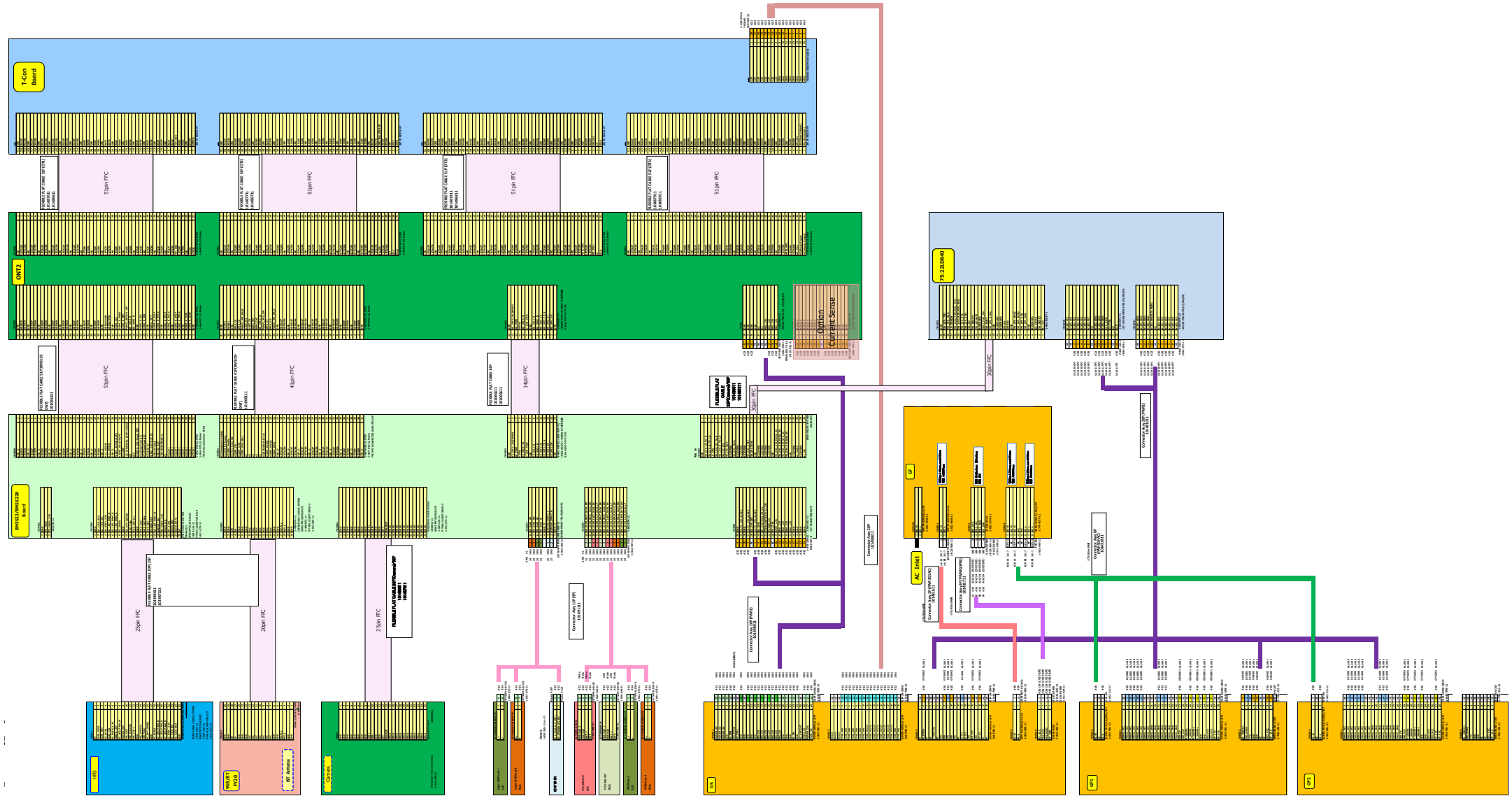
or



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

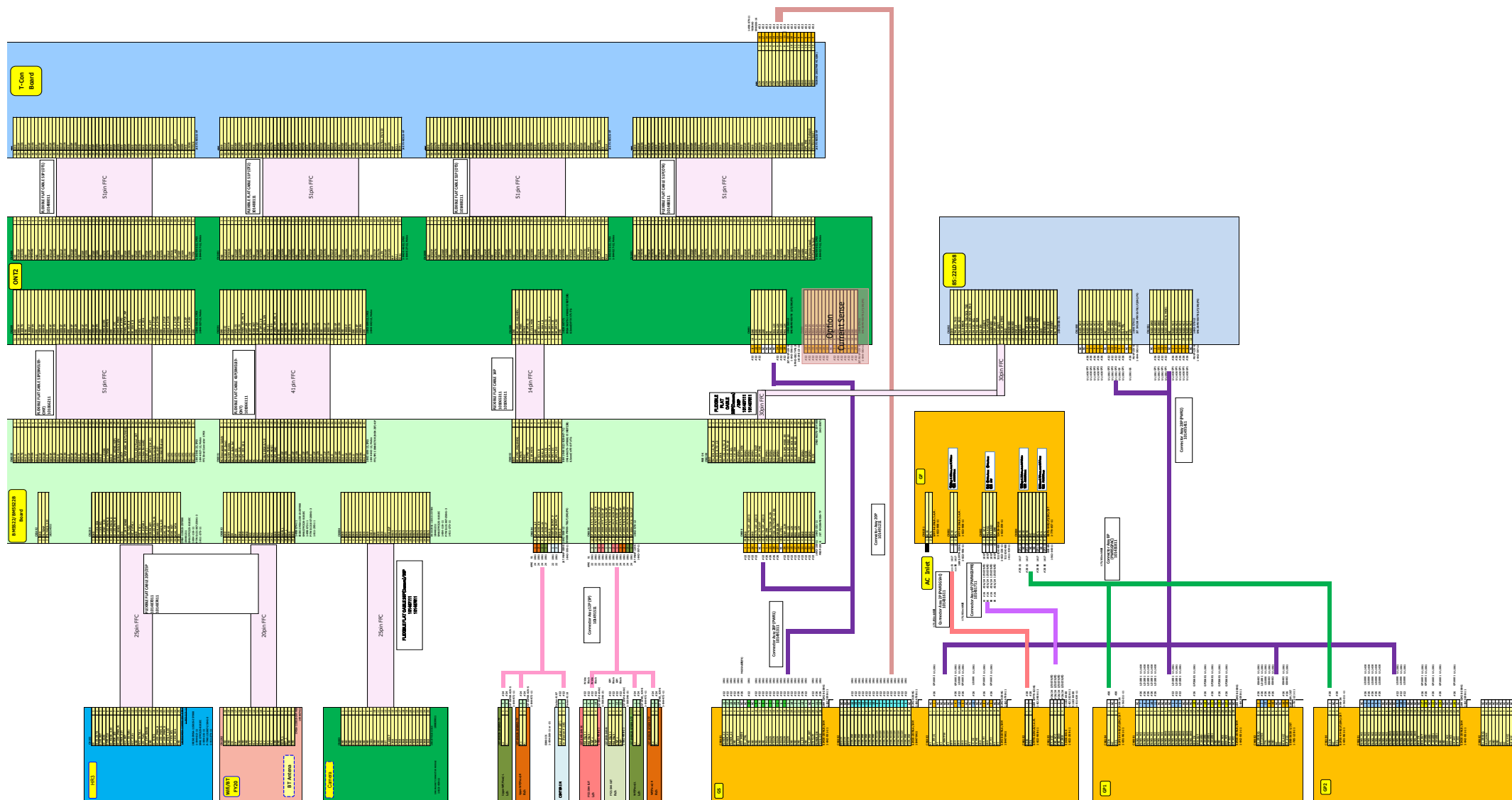
DIAGRAM

75" Connecting Diagram



DIAGRAM

85" Connecting Diagram



HANDLING GUIDE

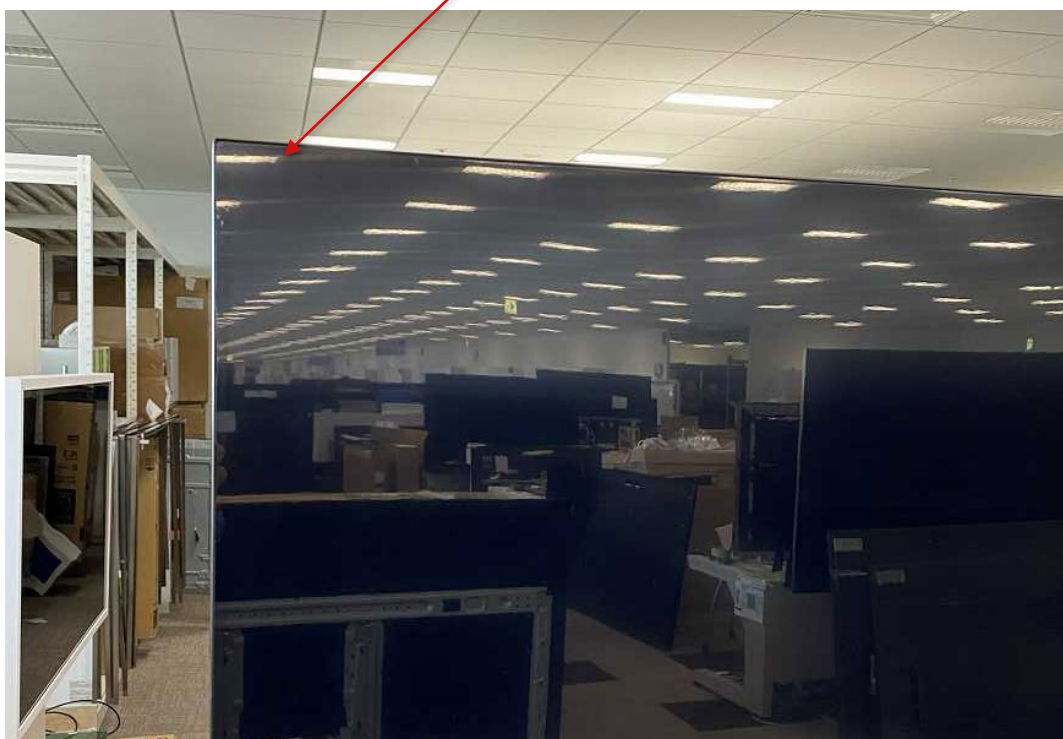
Information

<FLUSH SURFACE>

There are no bezel in front side.

Need to be careful in case of handling.

Easy to crack panel by pushing



HANDLING GUIDE

1. Holding Position



Always wear gloves during P-mod handling



Holding edge of BZ without touching o-cell



Support set at edge of BZ without touching o-cell



Hand pressing o-cell



Hand pressing o-cell

HANDLING GUIDE

2. Carry Condition



Carry P-mod by vertical position



Carry P-mod by 2 persons



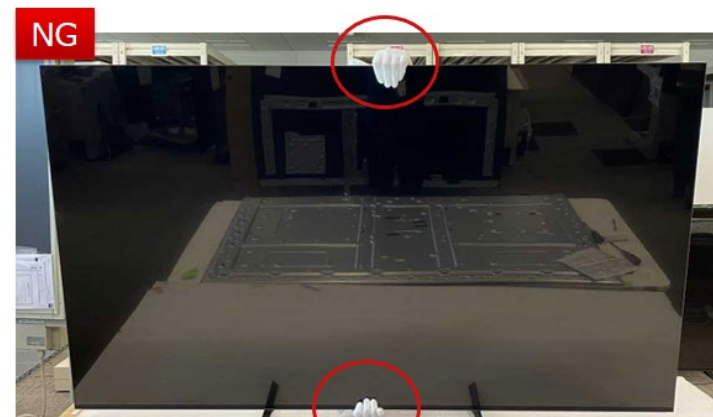
Carry P-mod by corners



Carry P-mod by horizontal position



Carry P-mod by 1 person



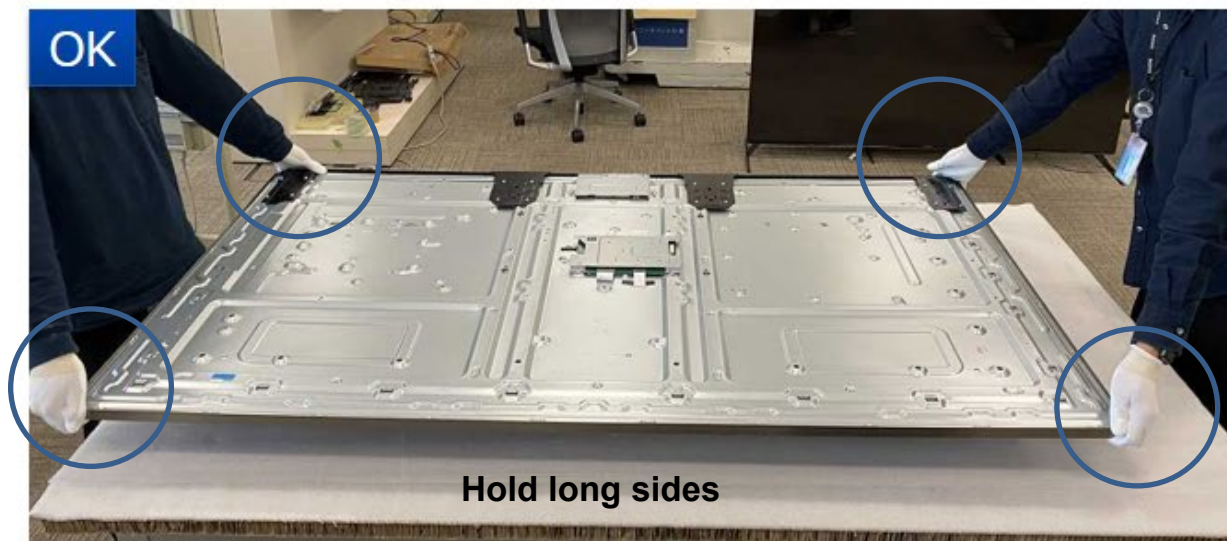
Carry P-mod at center area



It is easy to deform by holding in this area

HANDLING GUIDE

3. Resting Condition

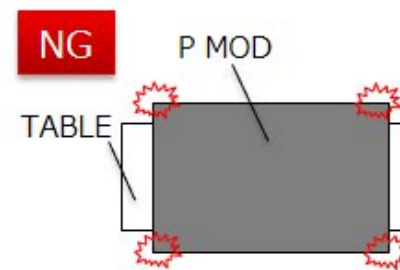
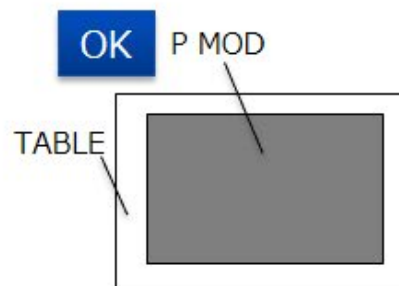


Resting P-mod by 2 persons



Resting P-mod by 1 person

Put the Panel within one flat table surface.



HANDLING GUIDE

3. Resting Condition



Resting P-mod by 2 persons
(Hold **long** sides)

NG

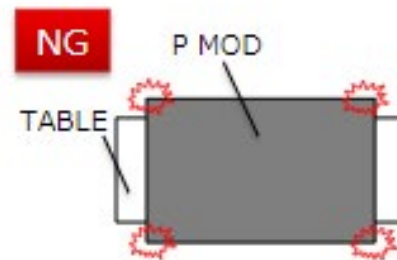
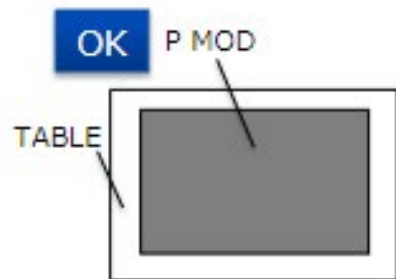


Resting P-mod by 1 person



Resting P-mod by 2 persons
(Hold **short** sides)

Put the Panel within one flat table surface.



HANDLING GUIDE

4. Prohibited Method

NG



Handle P-mod without gloves

NG



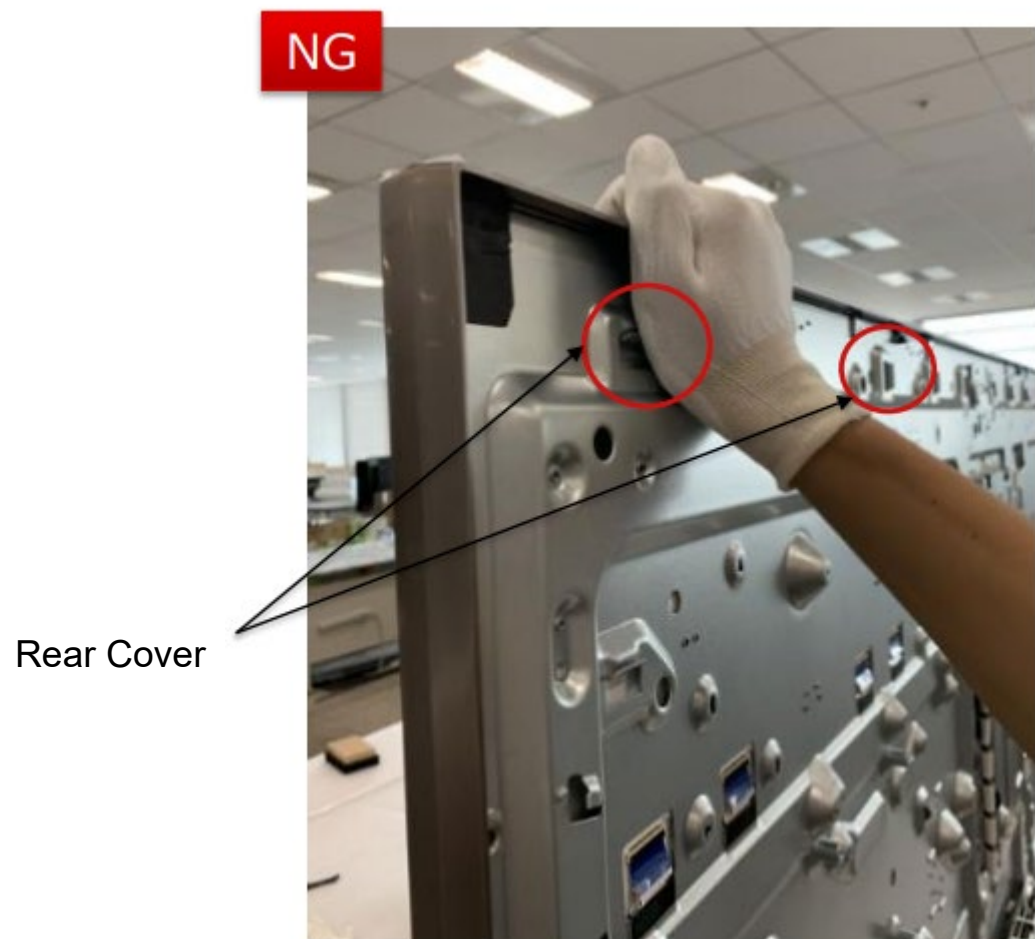
NG



Press on P-mod during Assy & Disassy

HANDLING GUIDE

5. Restricted Area

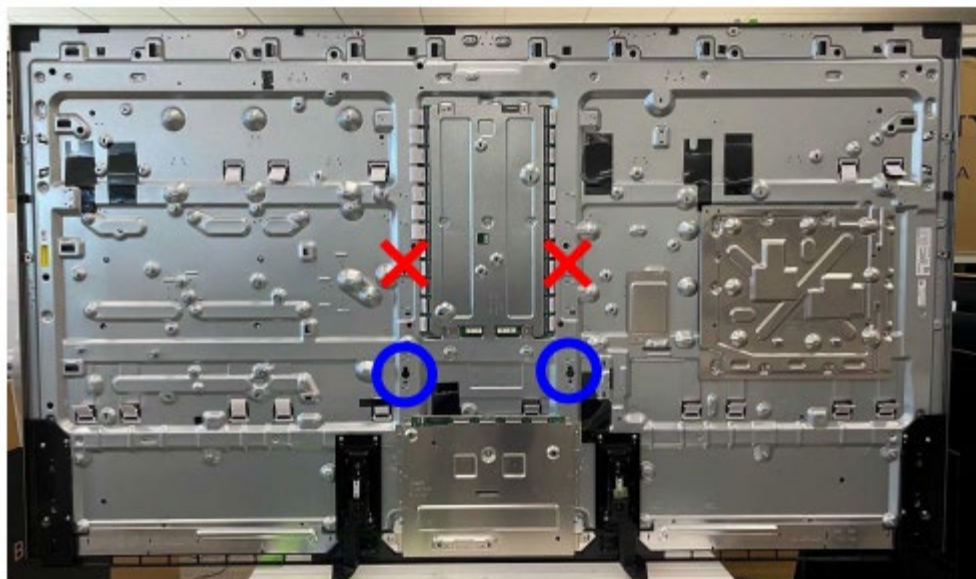


Avoid touch Rear cover hook during P-mod handling

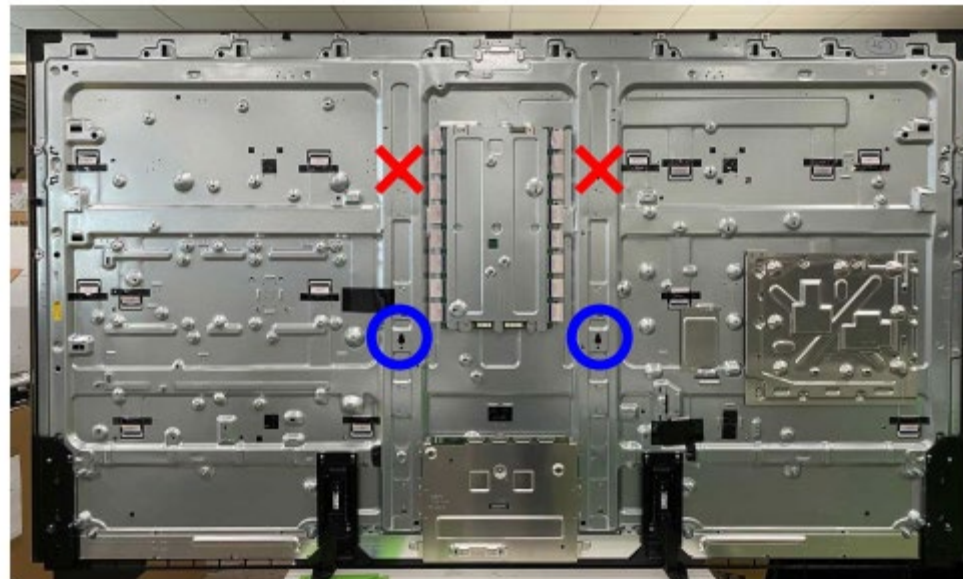
HANDLING GUIDE

6. Prohibited Daruma Position

■ 75"



■ 85"



Do not use the upper Daruma hole .
There is a risk of contact near the FFC

✘ Prohibited use daruma hole

○ Available daruma hole

SERVICE MANUAL (DISASSEMBLY)

ORIGINAL MANUAL ISSUE DATE: 2023.12

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9-888-908-U1

LCD TV

SONY®

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

MODEL LISTS

Model	Remote	Destination
XR-75Z9K	RMF-TX900U	UCM
XR-85Z9K	RMF-TX900U	UCM

Self Diagnosis
Supported model

RMF-TX900U



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Self Diagnosis
Supported model

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EXPLODED VIEW AND PART LIST	86

Please refer Service Manual (Troubleshooting) for below information :

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

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

TOOLS & EQUIPMENTS

1 LIST OF ITEMS TO PREPARE

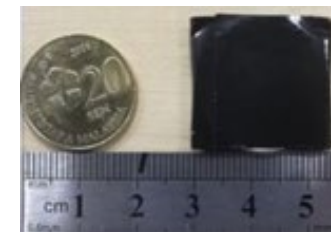
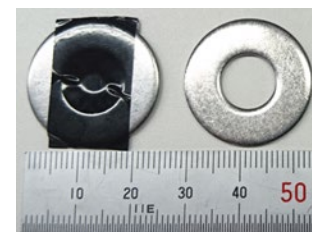
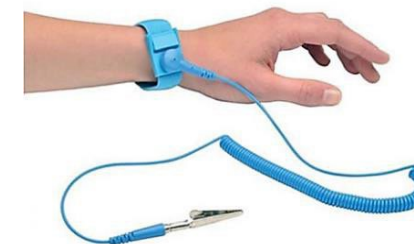
- i. Screwdriver (e.g., #2 Phillips Screwdriver)
- ii. Multimeter
- iii. ESD Wrist Straps
- iv. Metal Washer (Flat) or Coin (for remove Rear Cover)
- v. Ruler (for remove Rear Cover)
- vi. Service Manual (Disassembly) (for remove & replace details)

2 OPTIONAL EQUIPMENTS

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

3 PREPARATION BEFORE REPAIRS

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



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



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



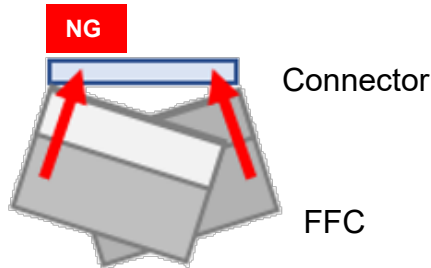
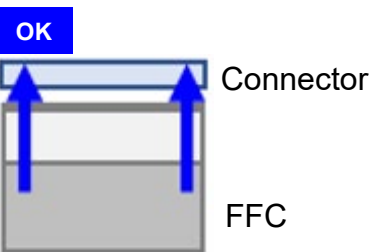
FFC PRECAUTIONS

FFC Insertion Method

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

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

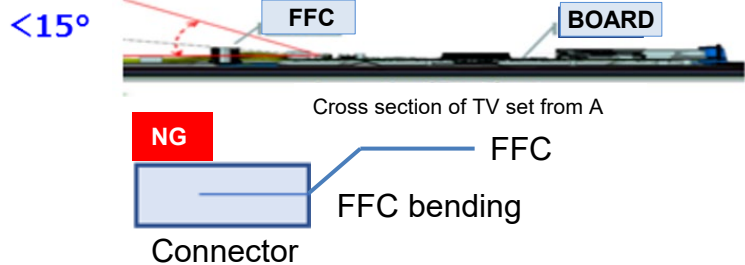
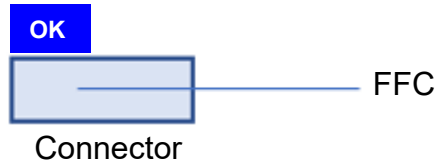
STRAIGHT INSERT



INSERT FFC IN STRAIGHT CONDITION

DO NOT INSERT FFC IN SLANTING CONDITION

INSERT ANGLE

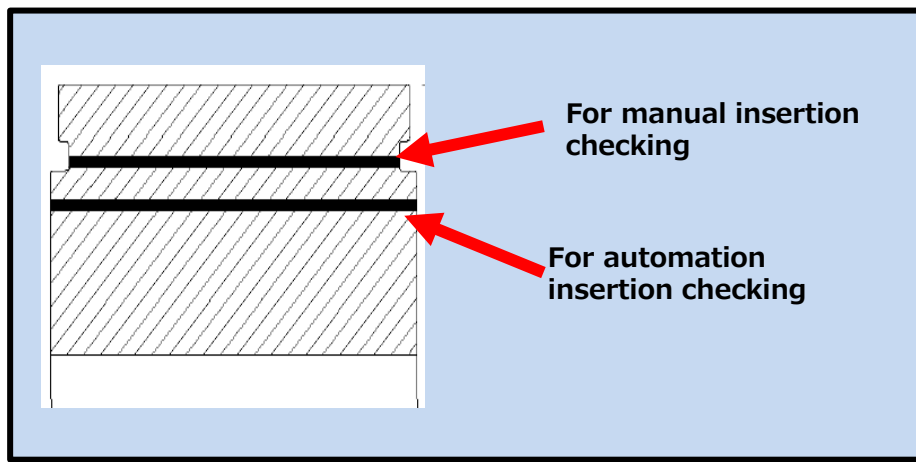


DO NOT APPLY EXCESSIVE FORCE DURING INSERTION

RECOMMENDED FFC HOLDING METHOD MATRIX

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

INDICATION FOR FFC FULL INSERTION



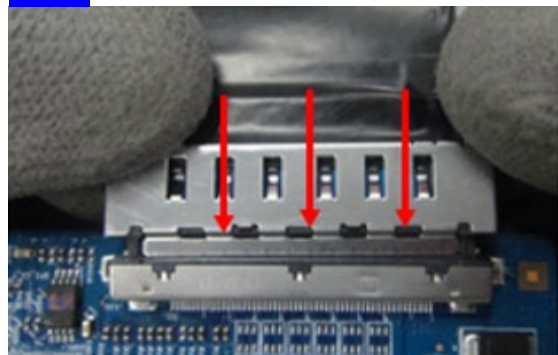
FFC PRECAUTIONS

Caution for FFC with Housing Connector

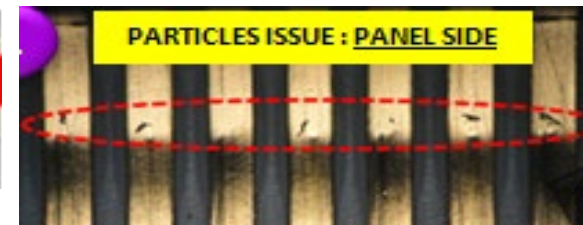
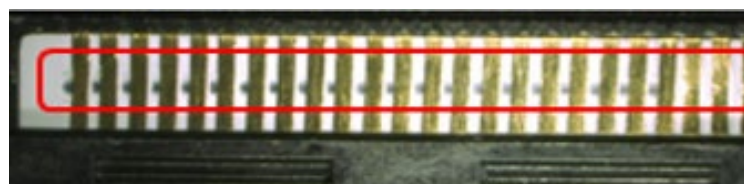
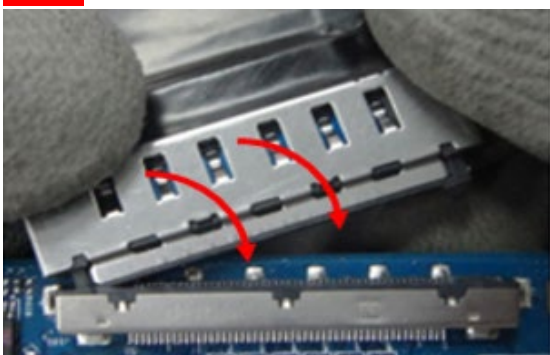
CAUTION FOR FFC WITH CONNECTOR INSTALLATION AT PANEL SIDE

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

OK

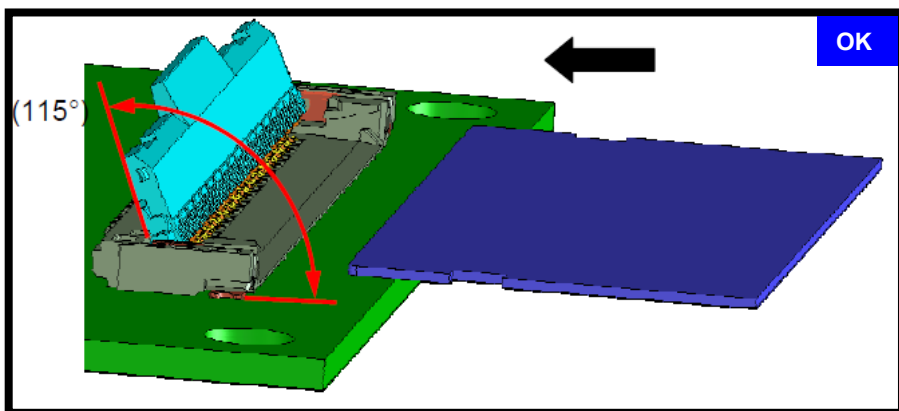


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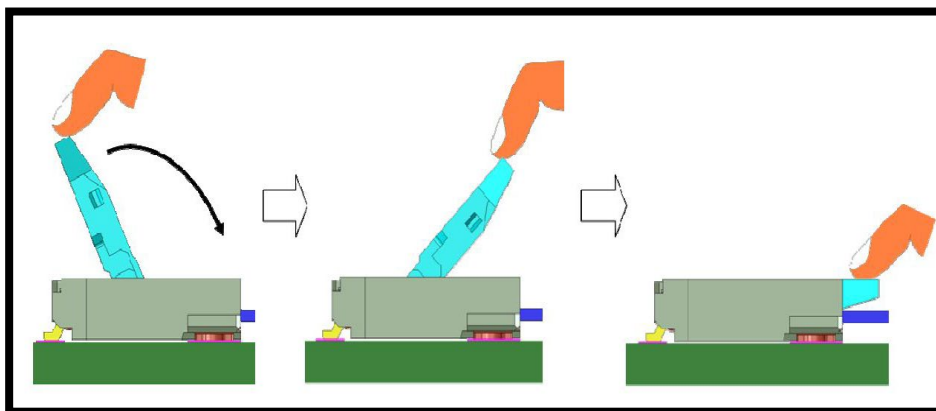


ZIFF FFC Insertion Caution

OK

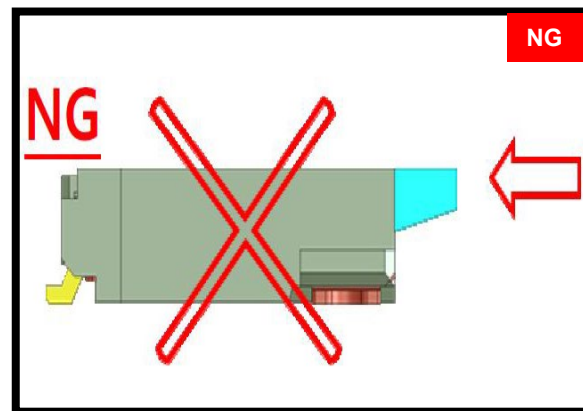


Pull up to open actuator.



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

NG



Do not push inwards with excessive force.

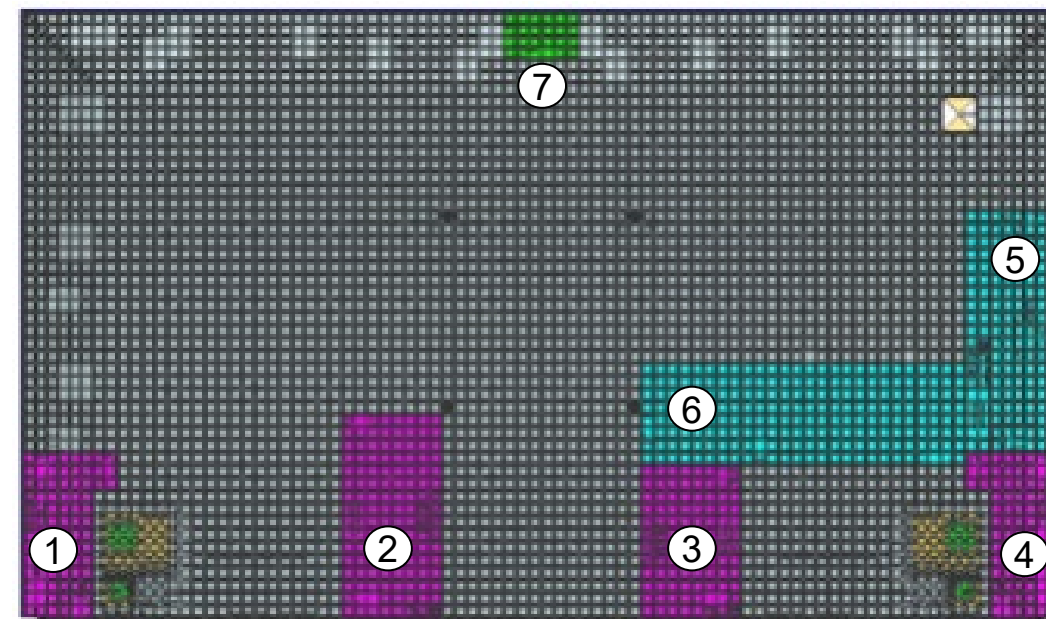
SECTION 1: XR-75Z9K

1-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

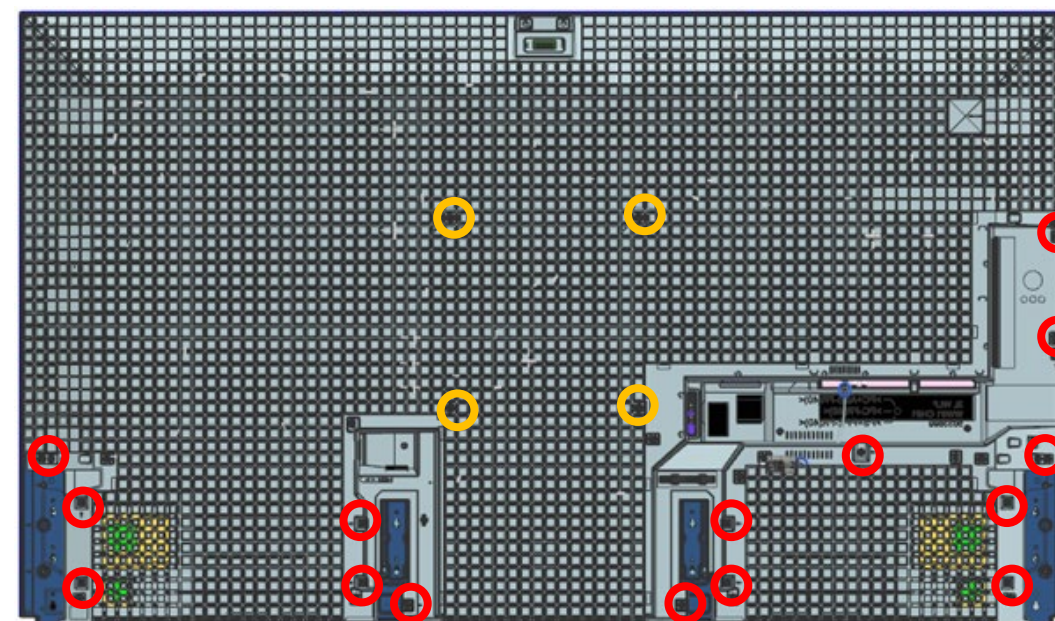
1. Remove Cover (7 Covers).

- ① STAND COVER R (3L WLF)
- ② STAND COVER CR (3L MKY)
- ③ STAND COVER CL (3L MKY)
- ④ STAND COVER L (3L WLF)
- ⑤ COVER TML V(3L WLF)
- ⑥ COVER TML H (3L MKY)
- ⑦ COVER CM (WLF)



2. Remove screws from the Rear Cover.

- SCREW, ORNAMENTAL M6X12 (4pcs)
- SCREW M3X3.0 STEP (15pcs)

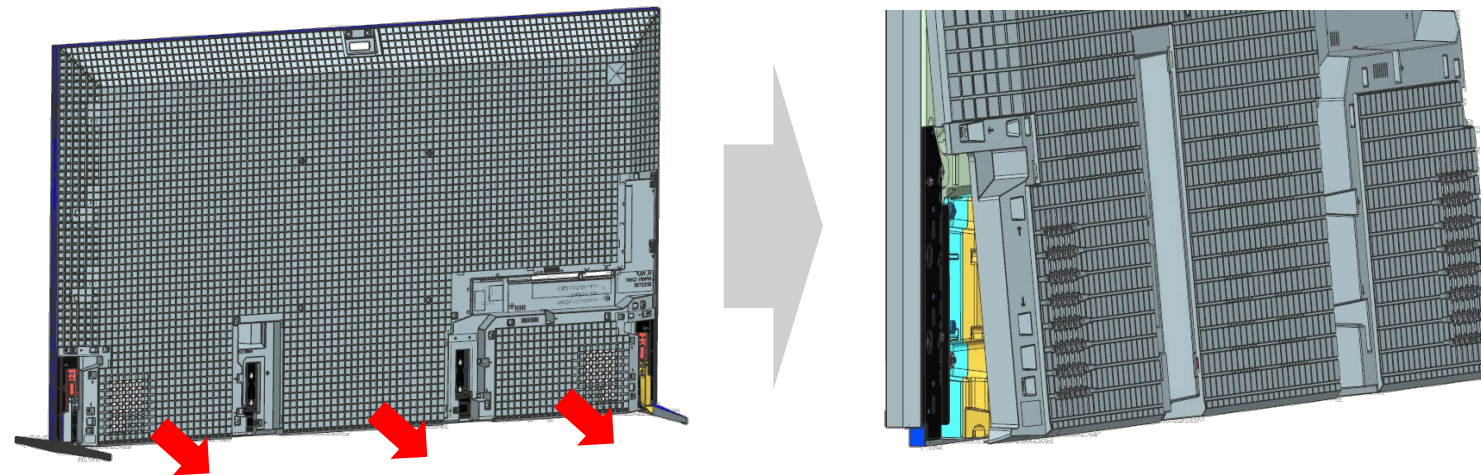


SECTION 1: XR-75Z9K

1-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

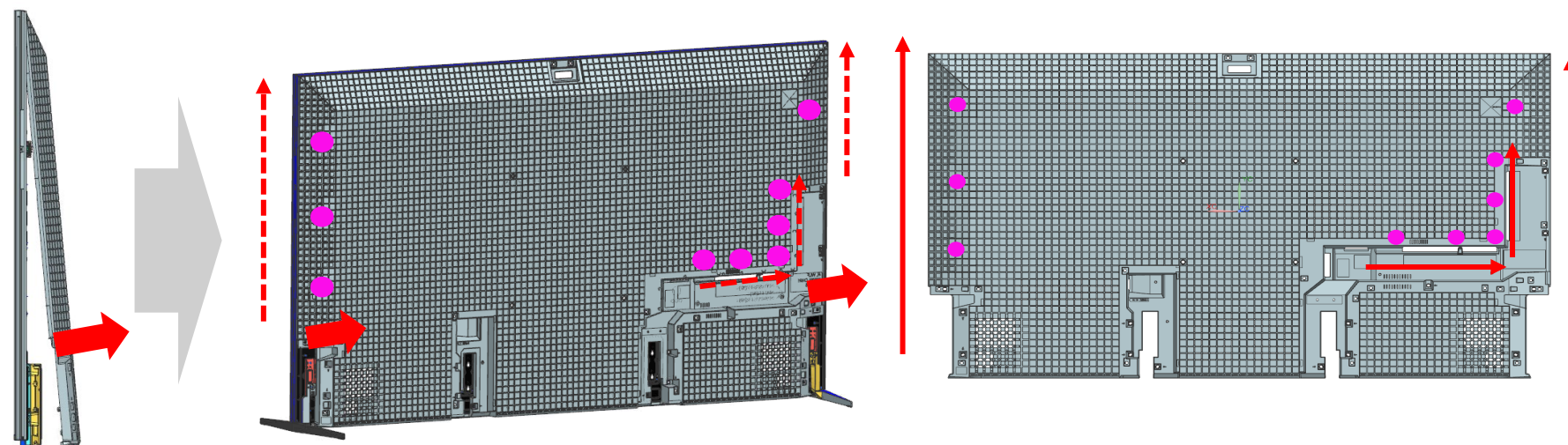
3. Pull Rear Cover bottom backward.



4. Release Rear Cover side hook.

● Hook position

Note:
Pull Rear Cover to back side and
remove it in order from the bottom side



SECTION 1: XR-75Z9K

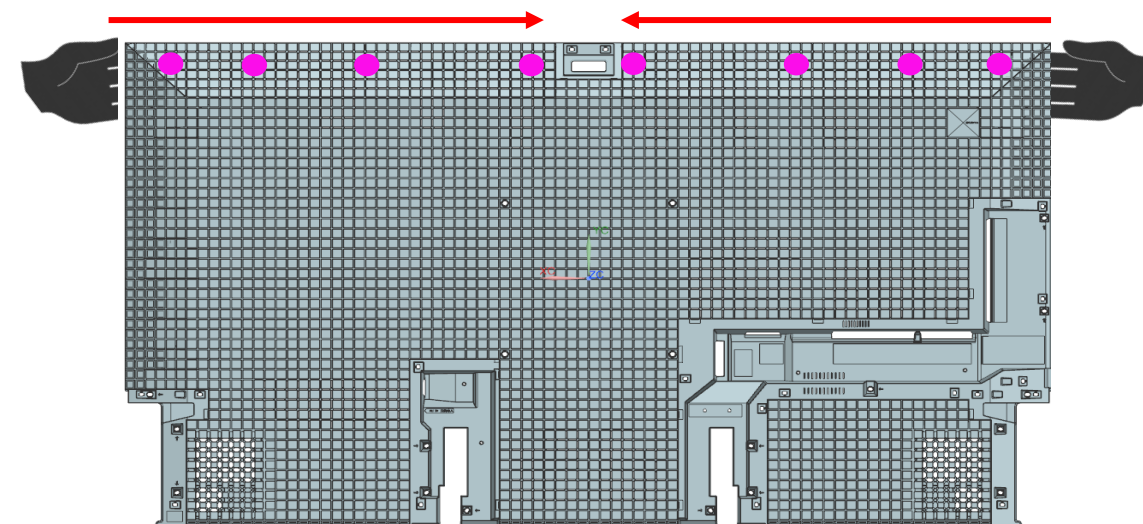
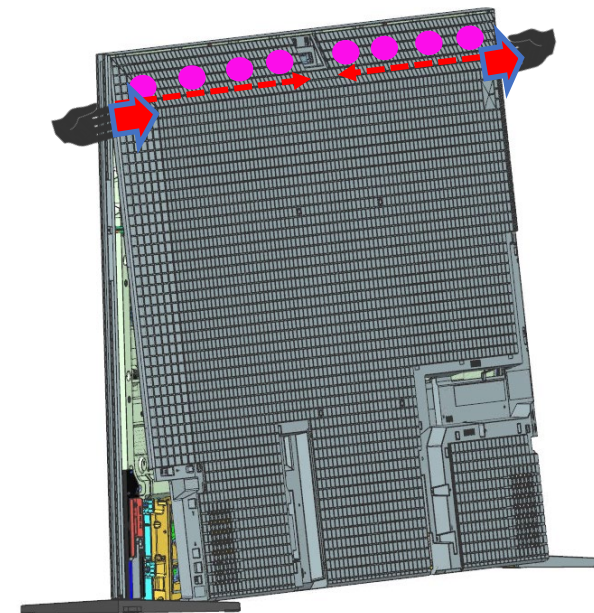
1-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

4. Release the top hooks while lifting the Rear Cover.

● Hook position

Note:
Always wearing gloves while lifting Rear Cover up, pull Rear Cover to back side.

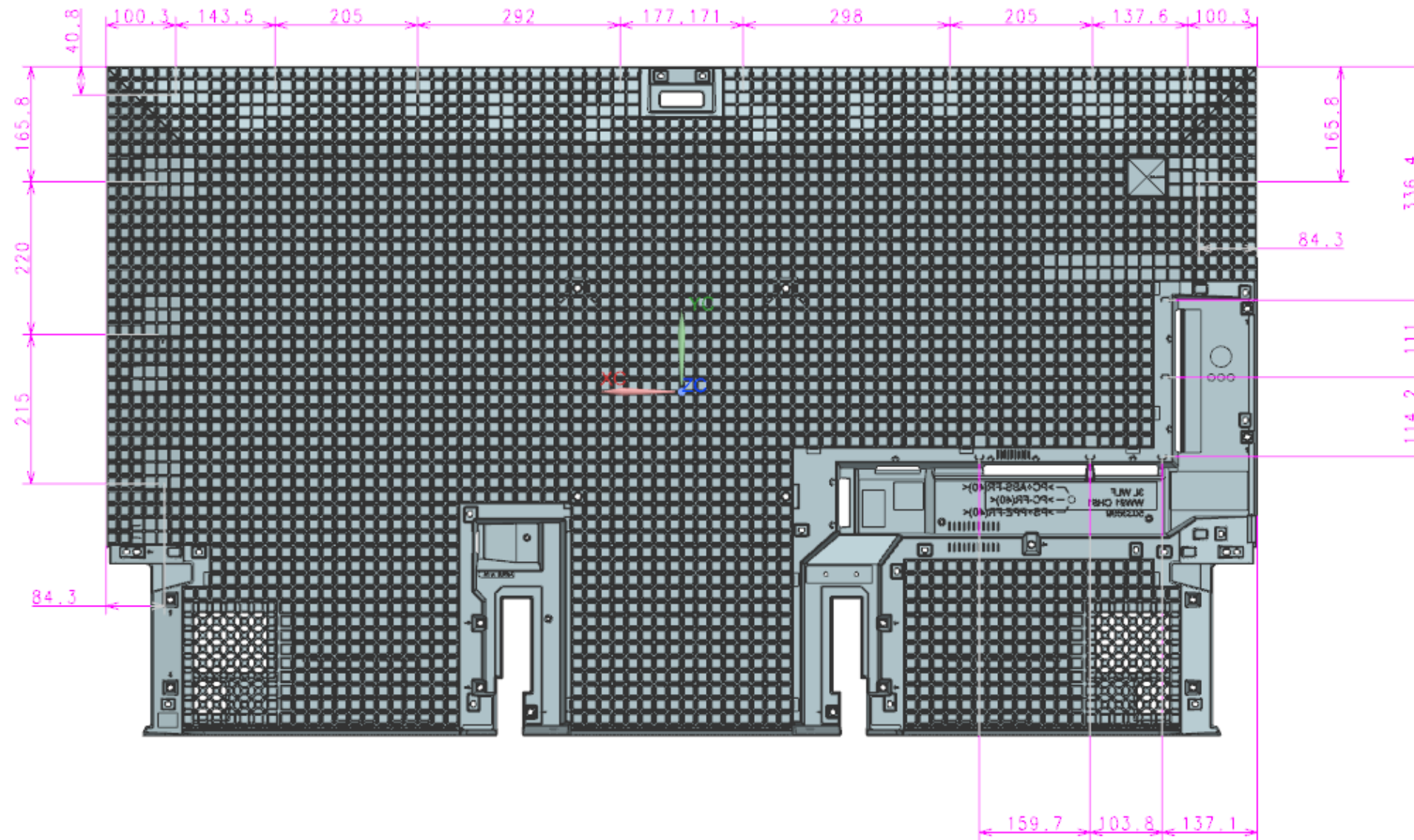


SECTION 1: XR-75Z9K

1-1. DISASSEMBLY AND REMOVAL CAUTION

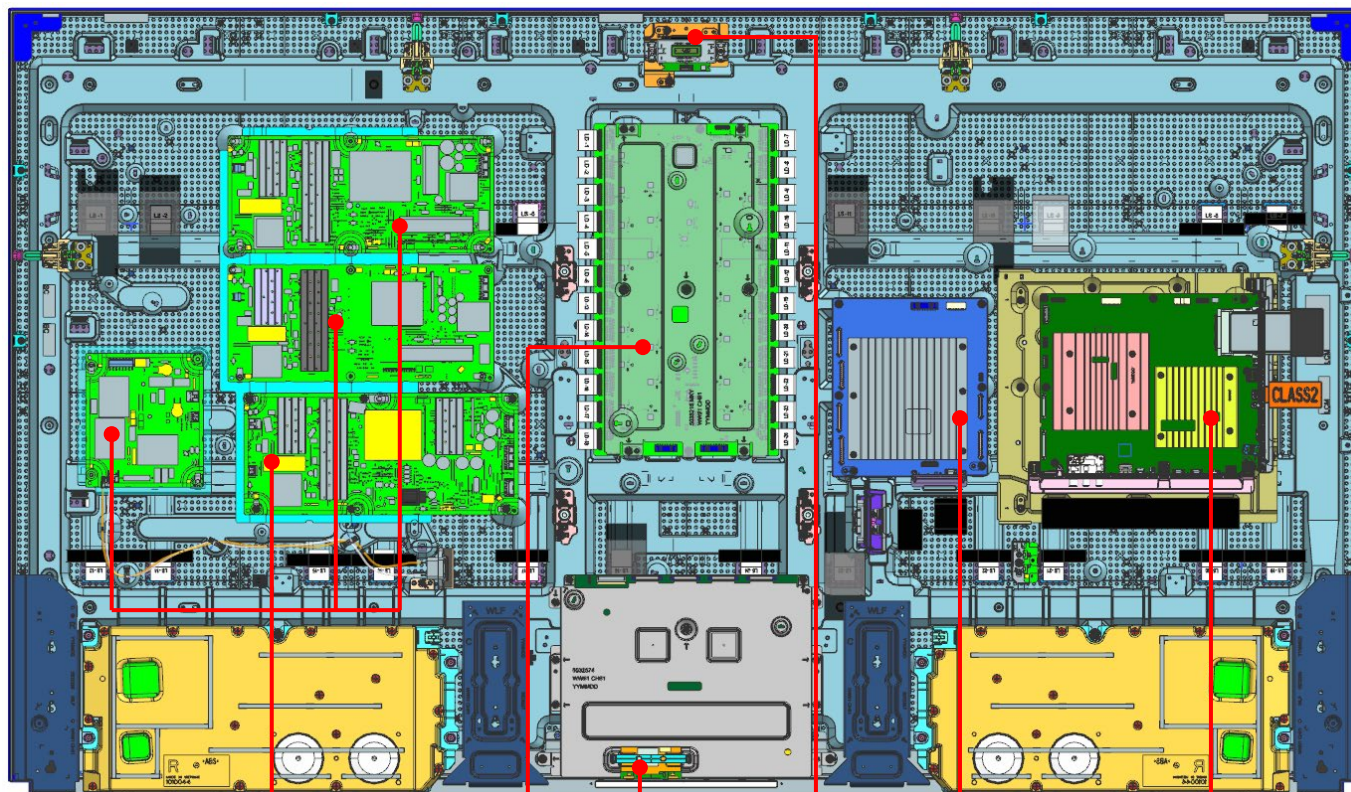
REAR COVER

Hook positioning.



SECTION 1: XR-75Z9K

1-2. BOARD LOCATION



POWER BOARD

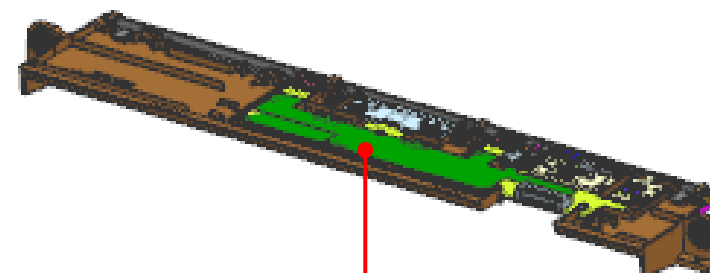
LD BOARD

WI-FI BOARD

CAMERA BOARD

ONT2 BOARD

MAIN BOARD



RECEIVER BOARD

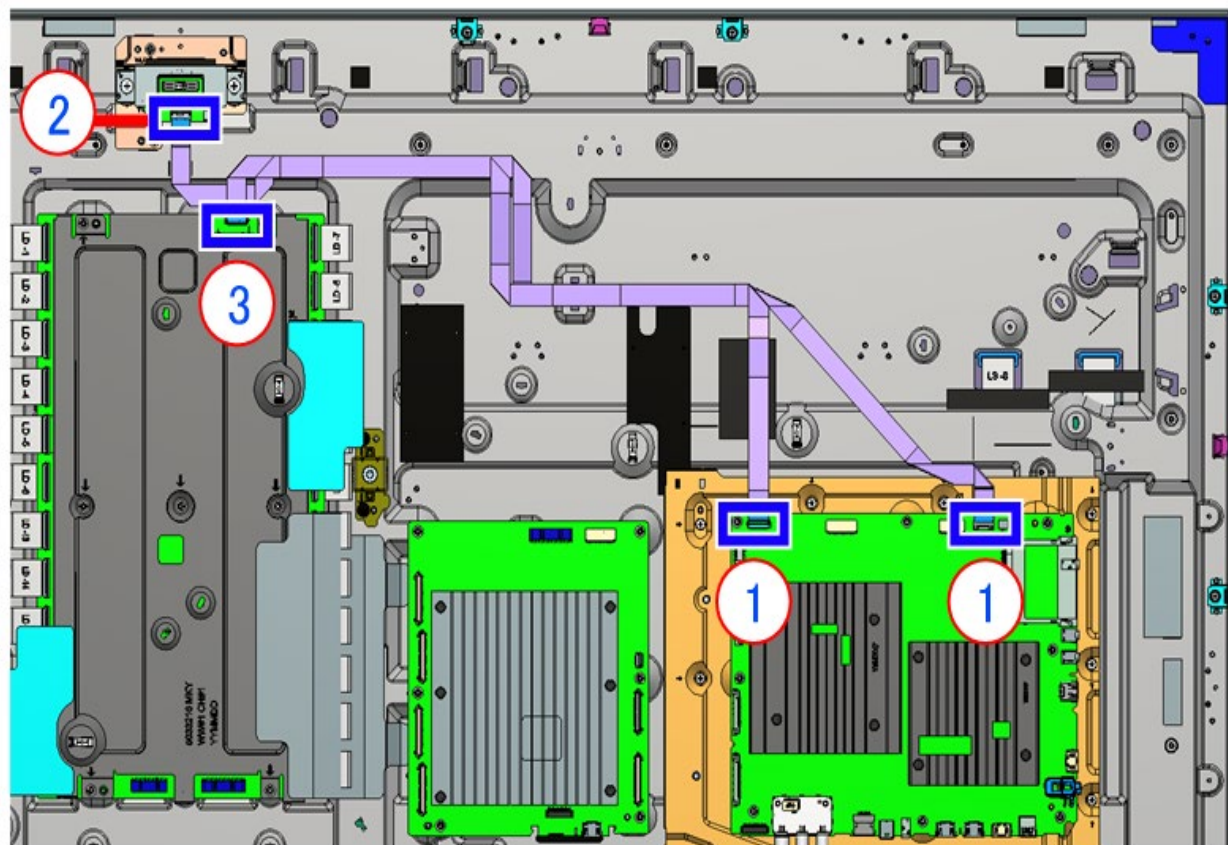
SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

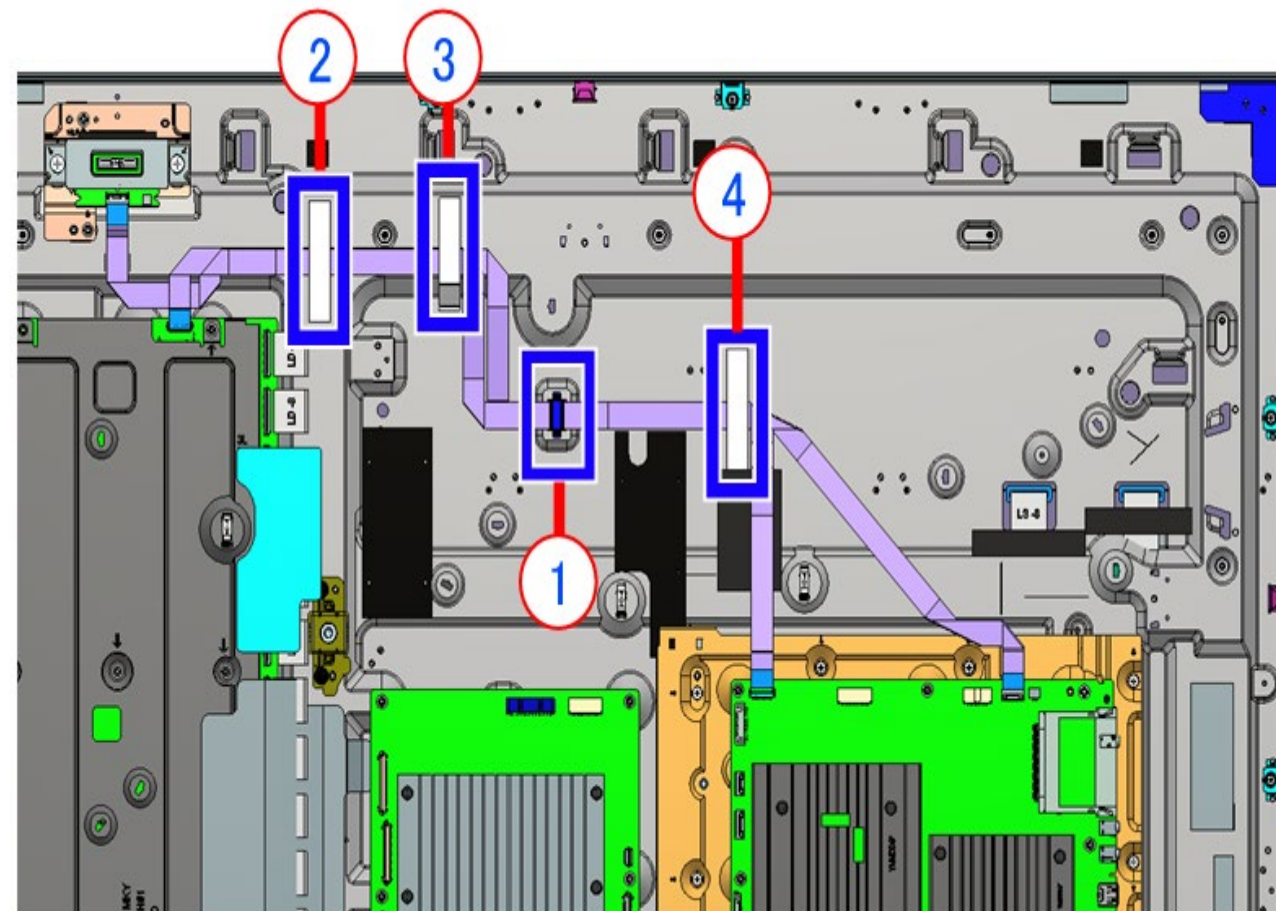
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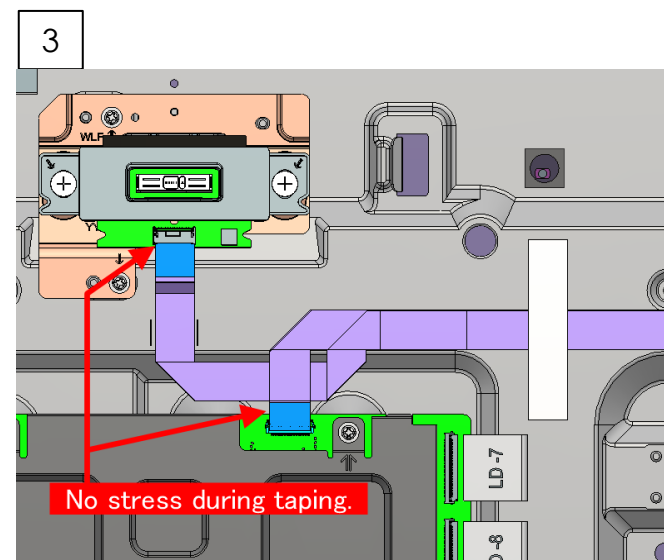
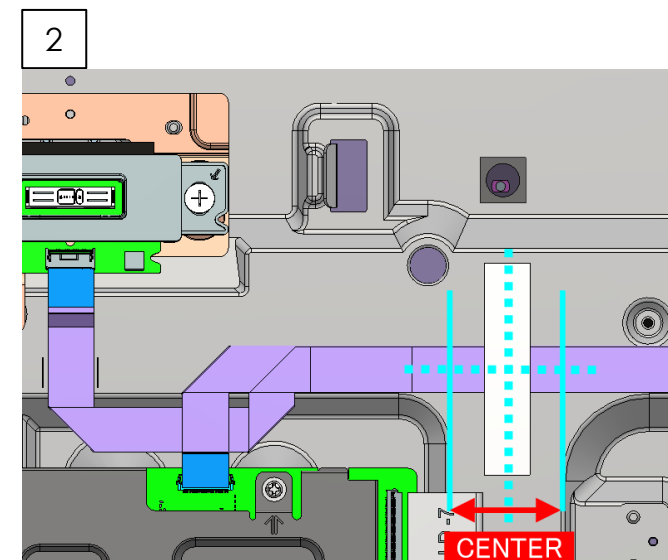
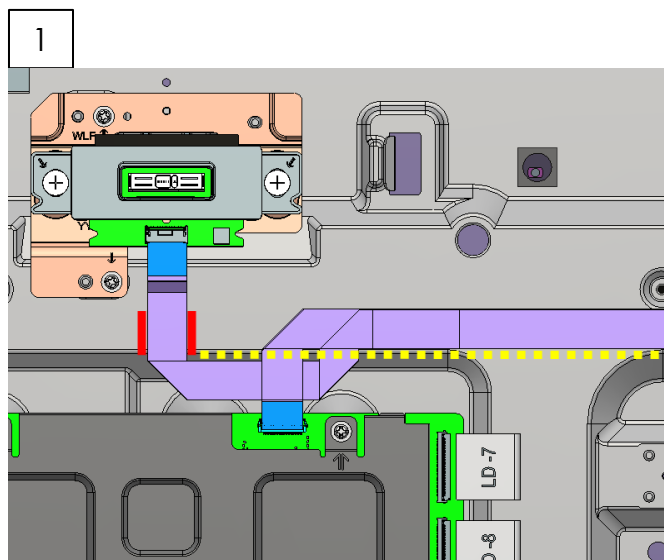
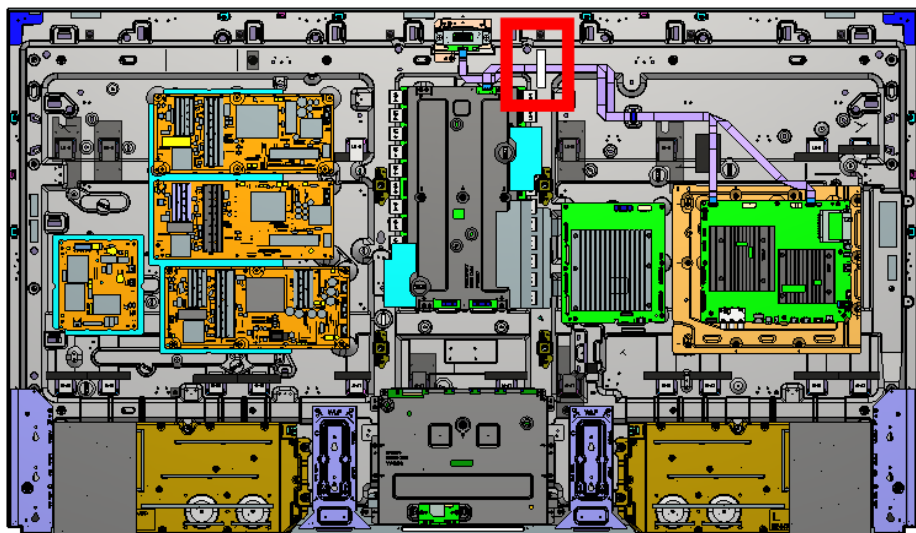
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

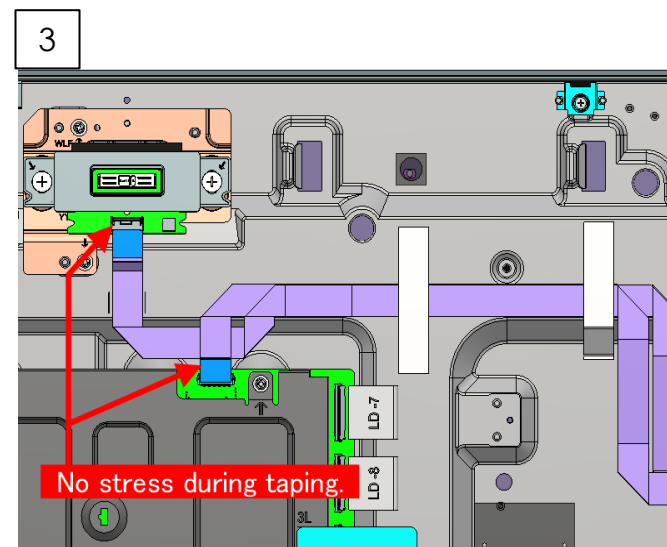
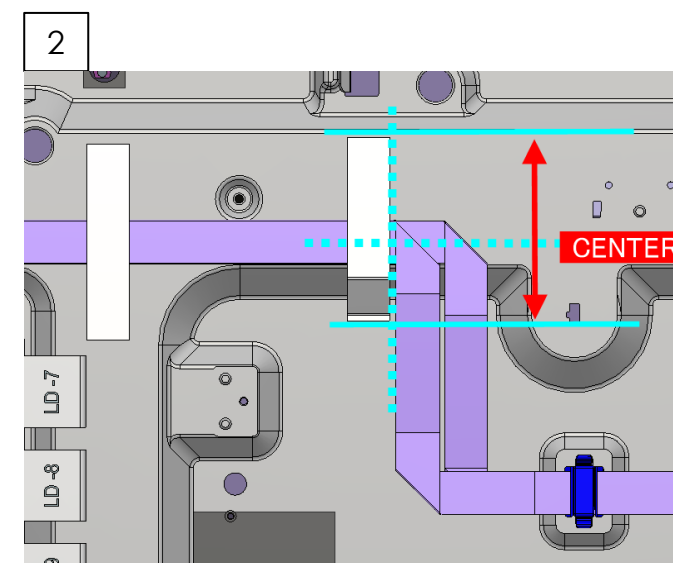
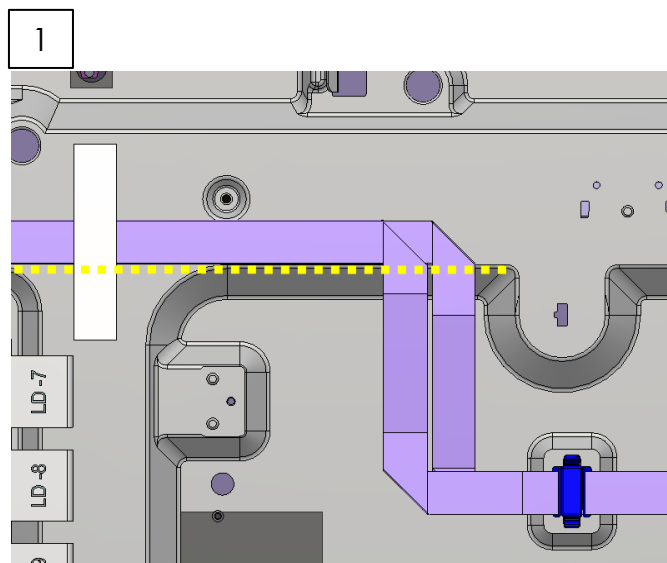
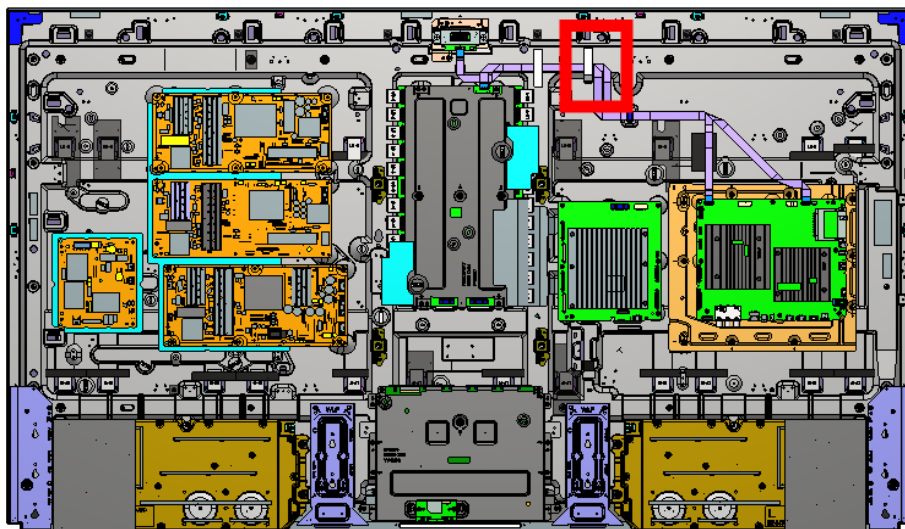
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

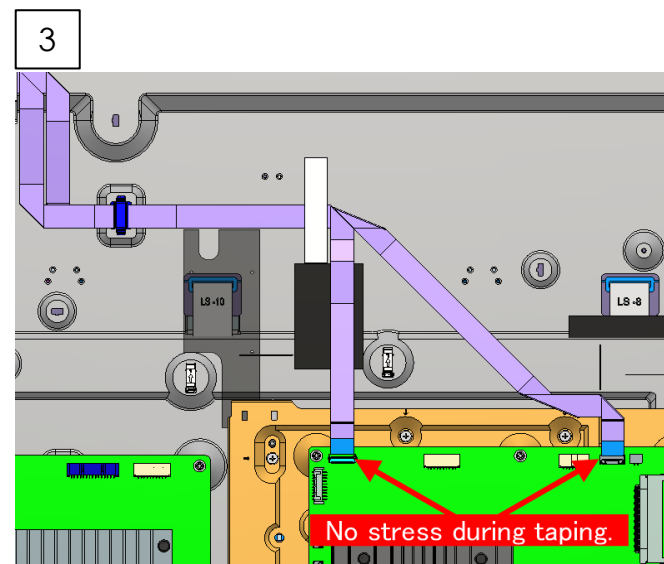
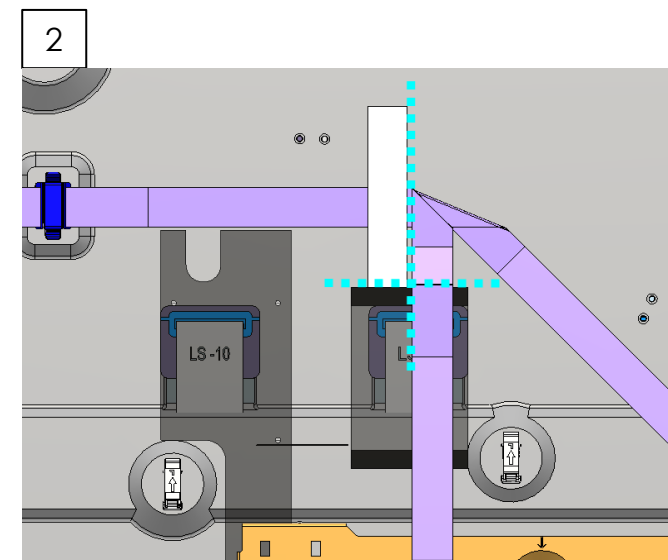
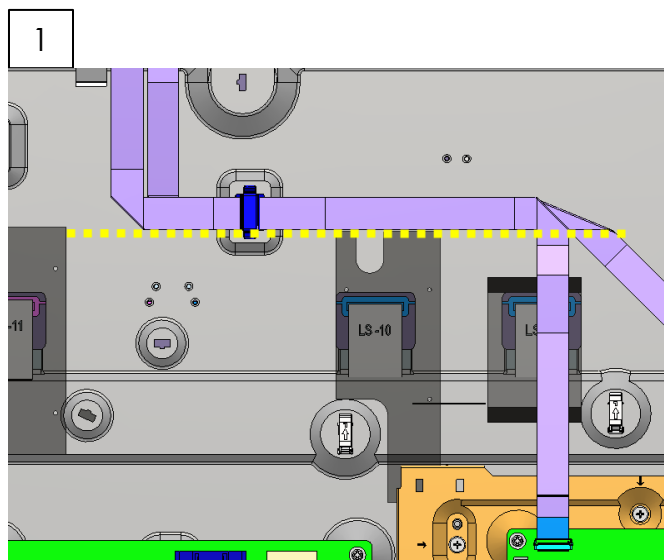
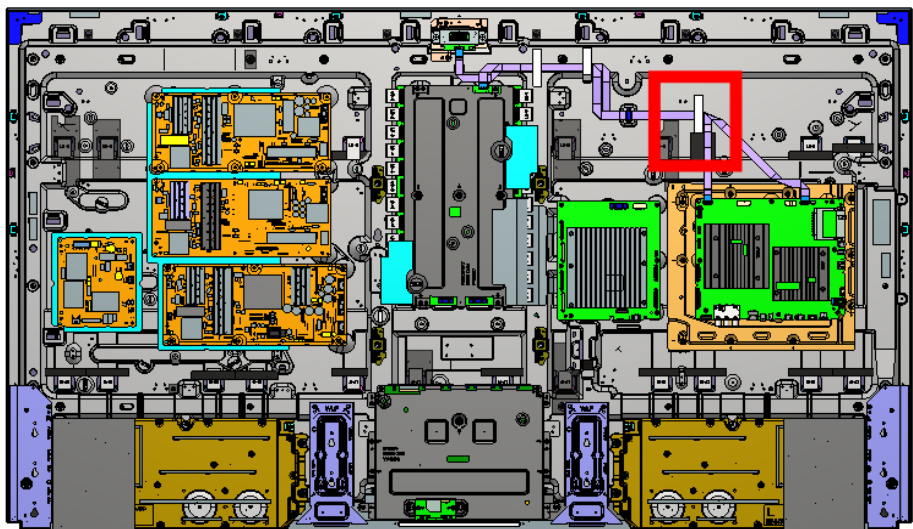
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

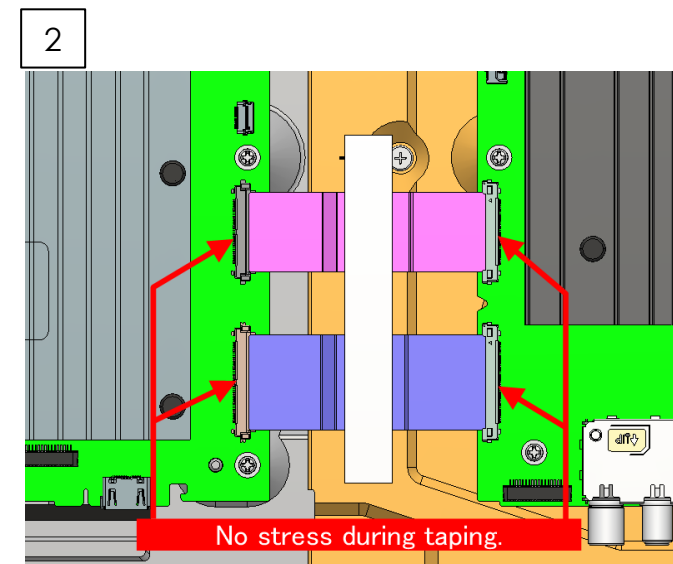
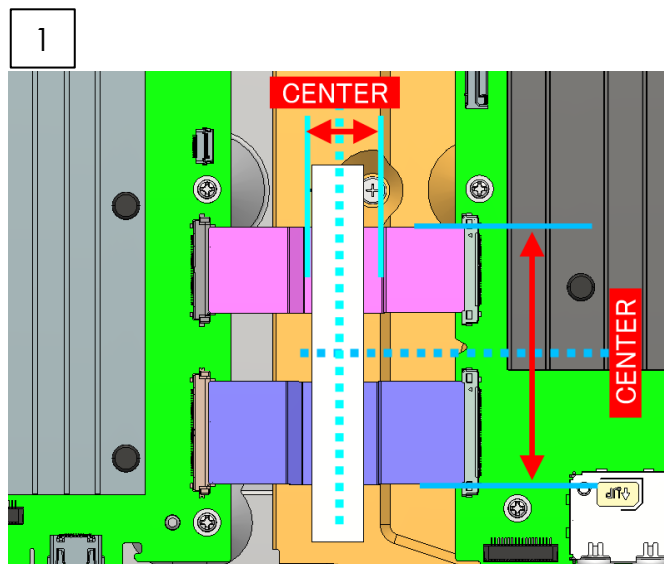
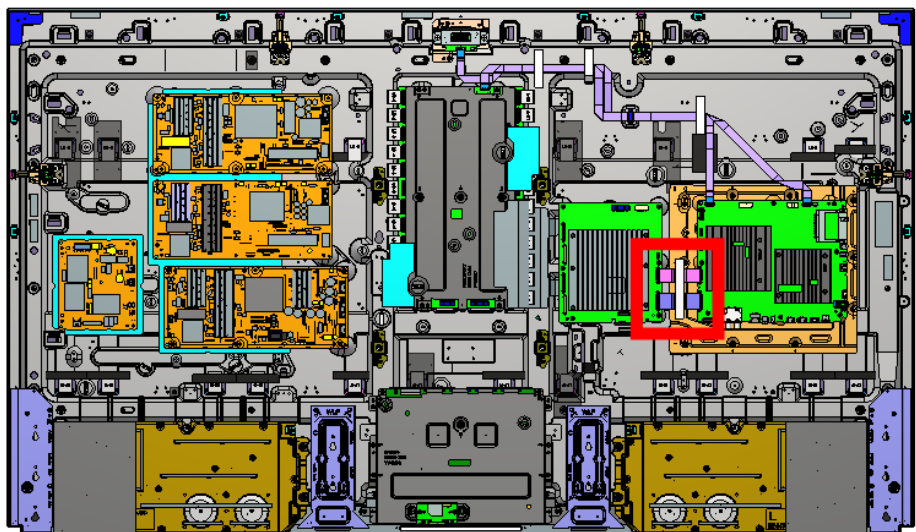
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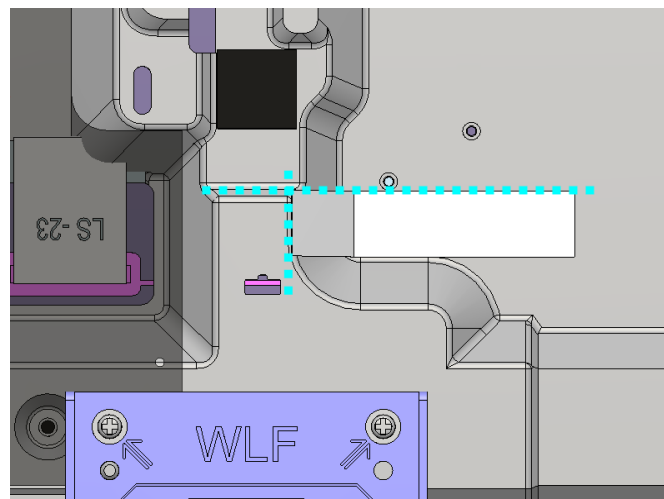
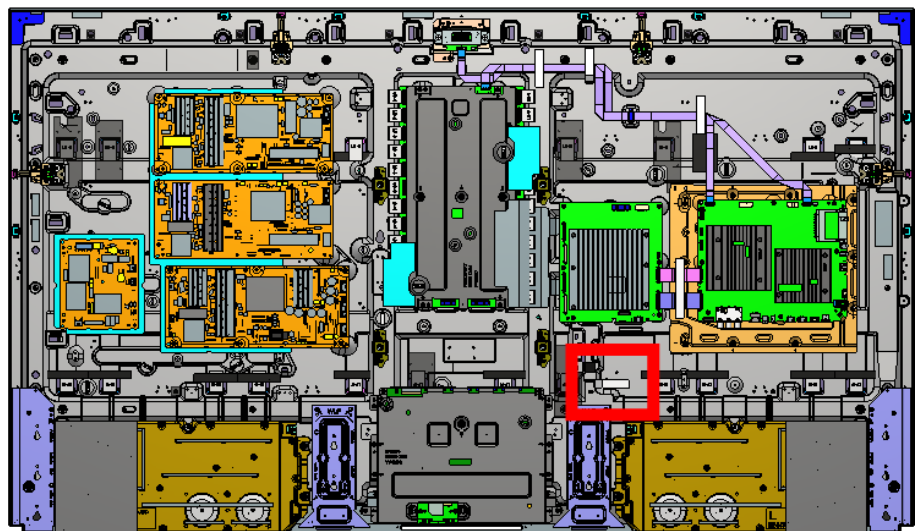
SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

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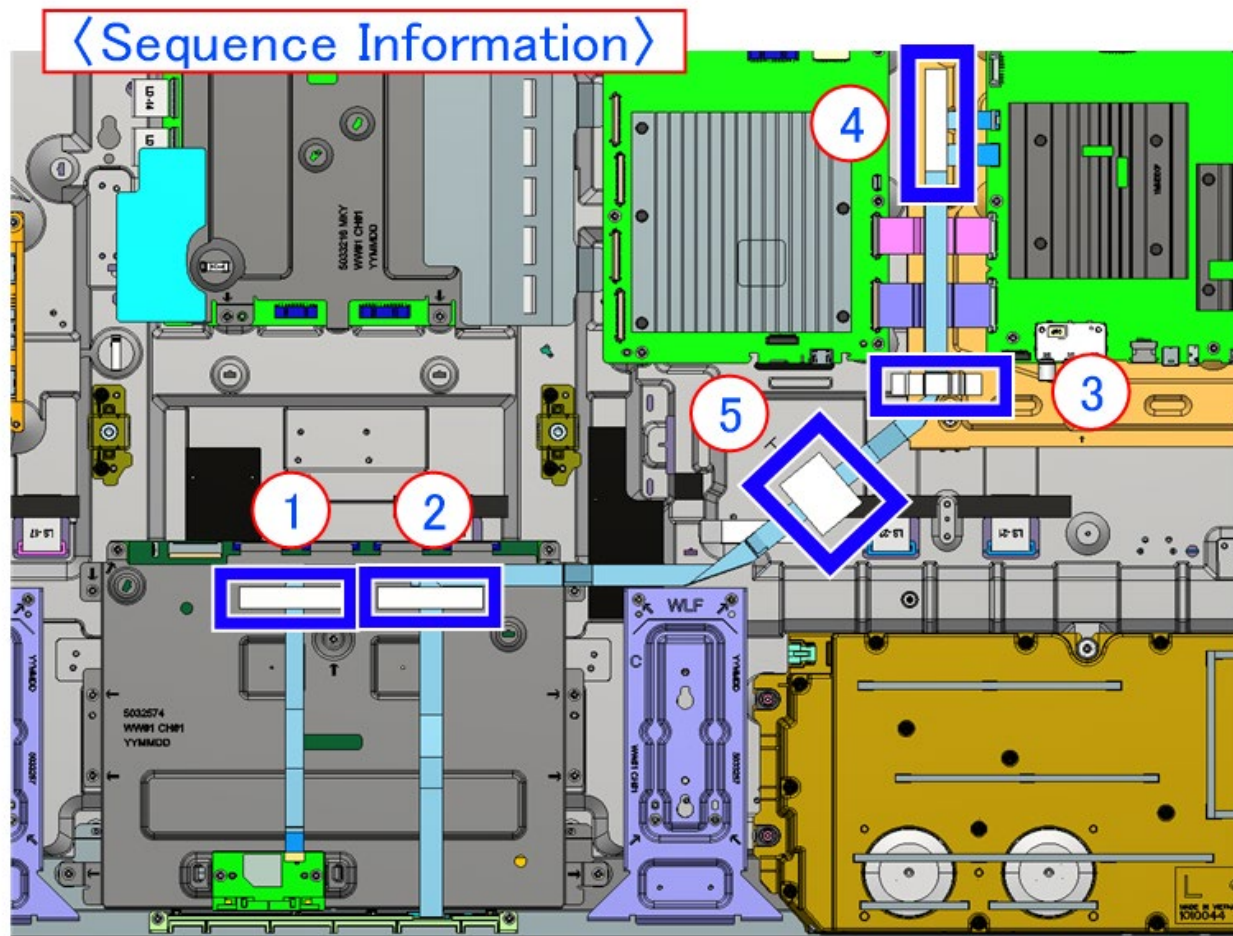
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

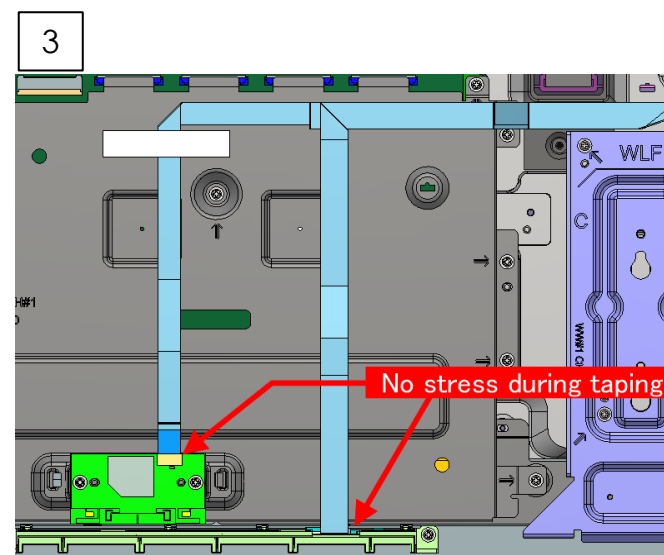
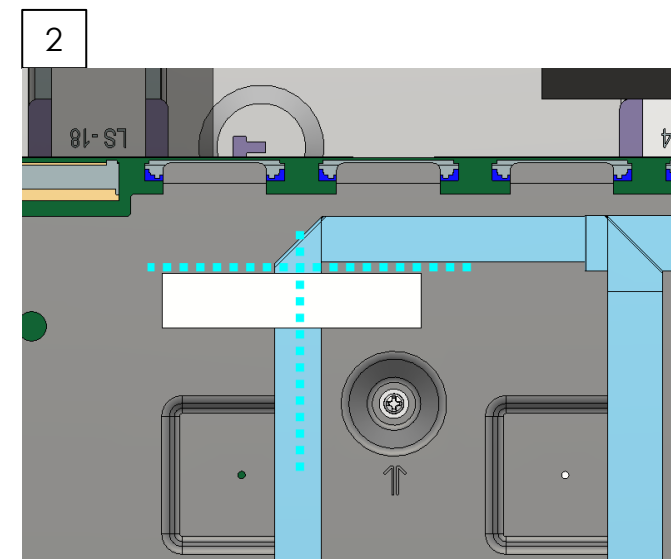
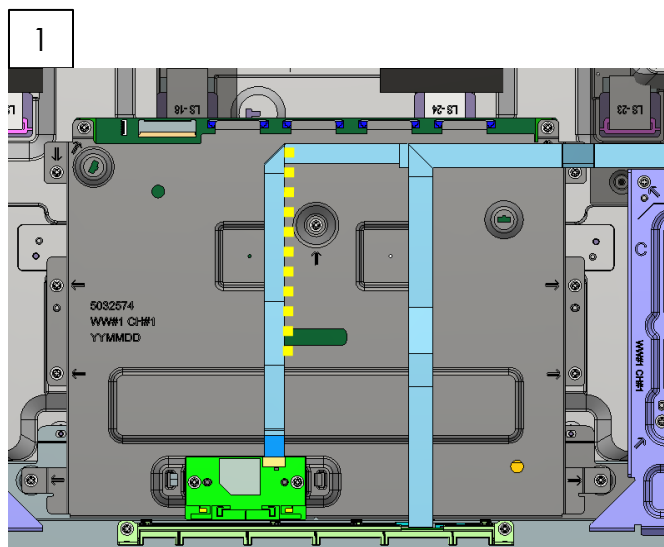
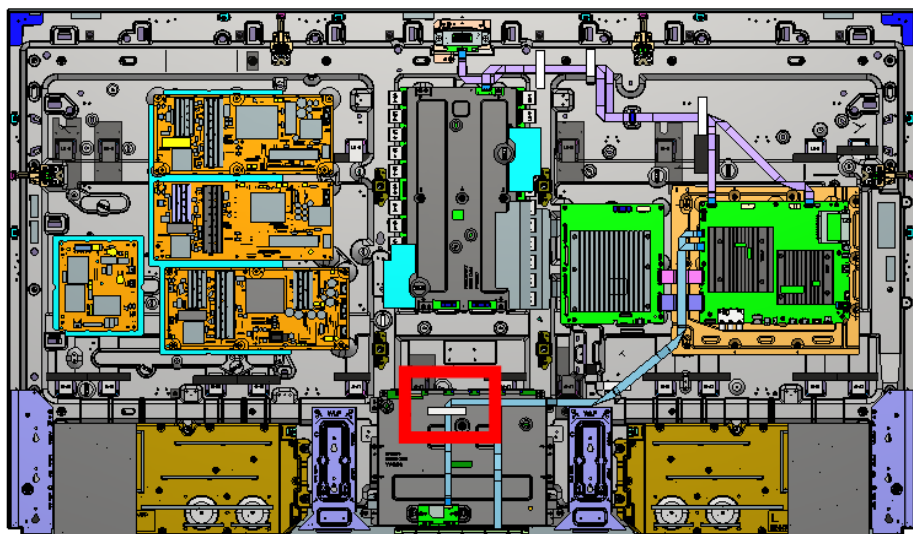
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

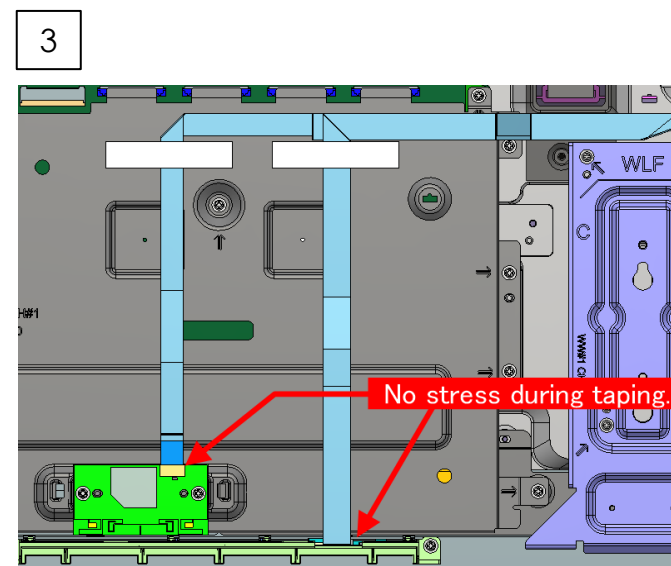
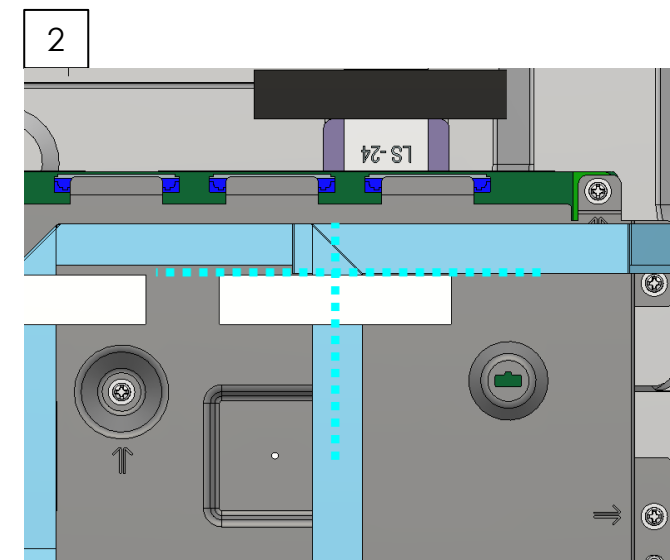
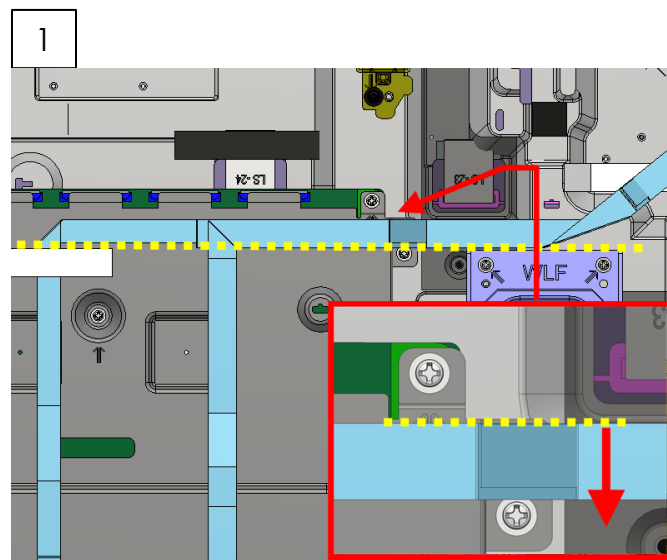
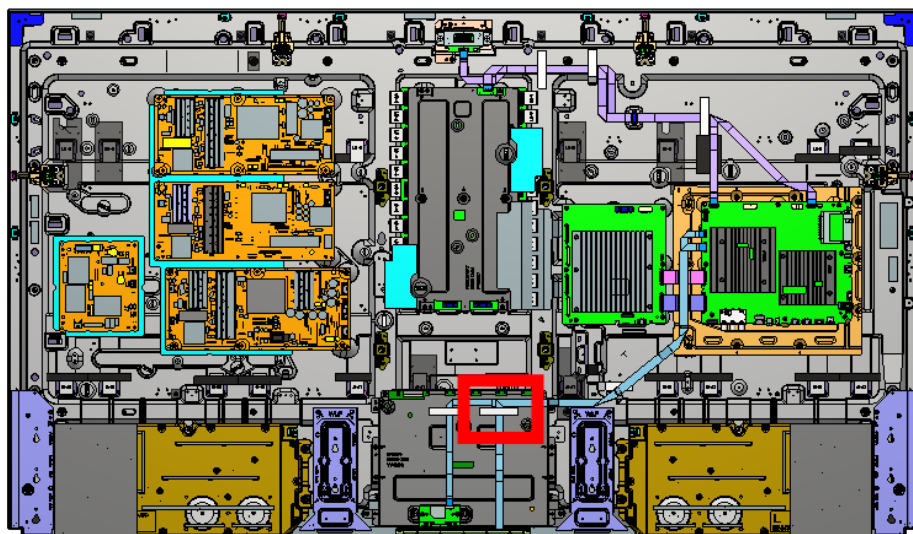
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

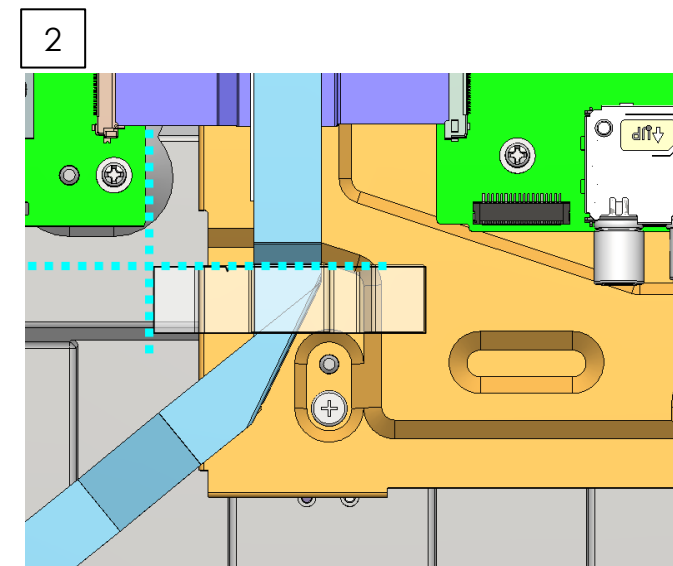
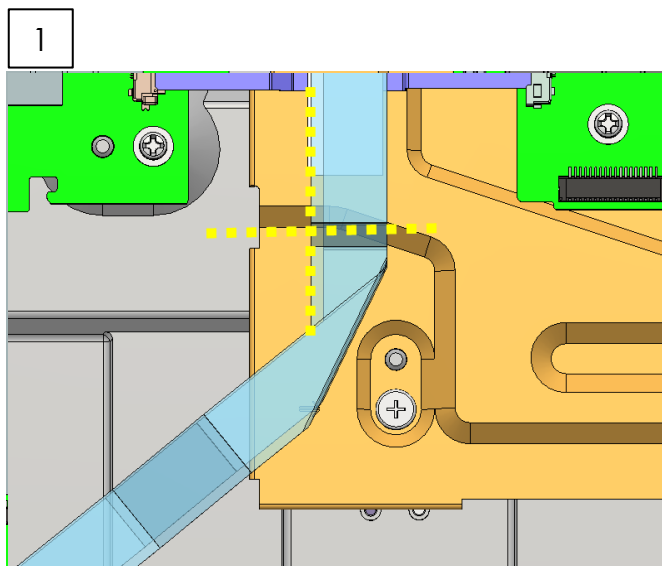
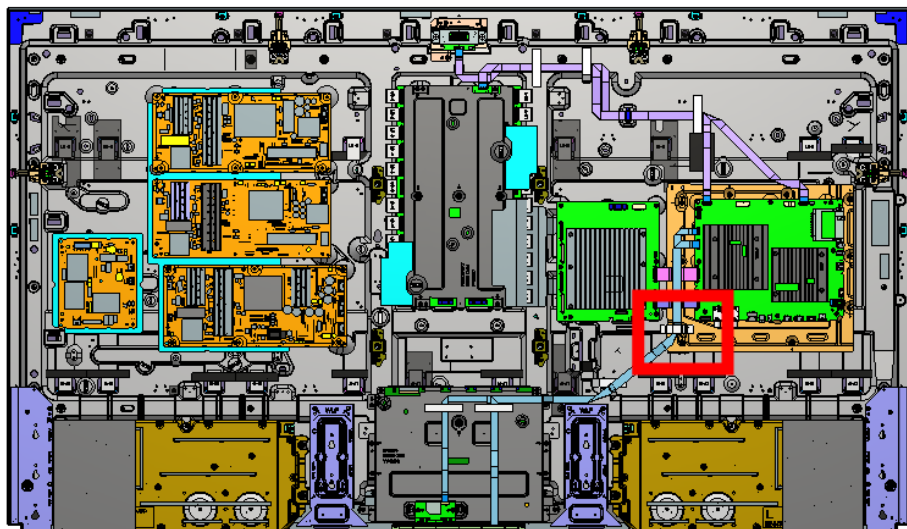
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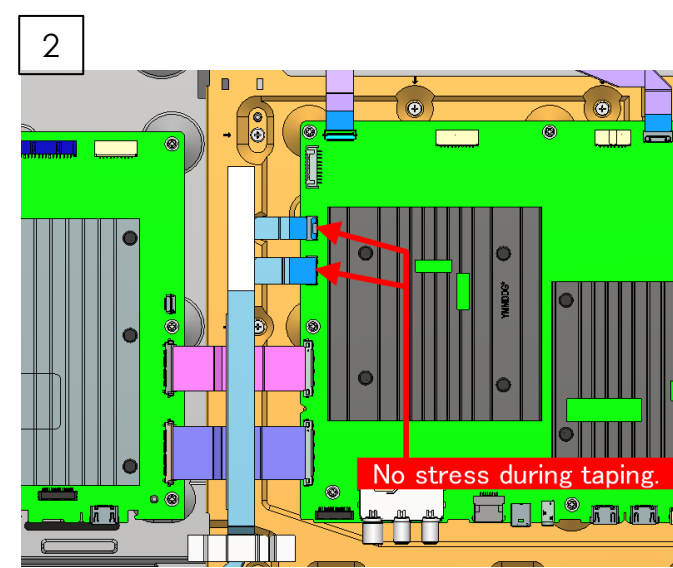
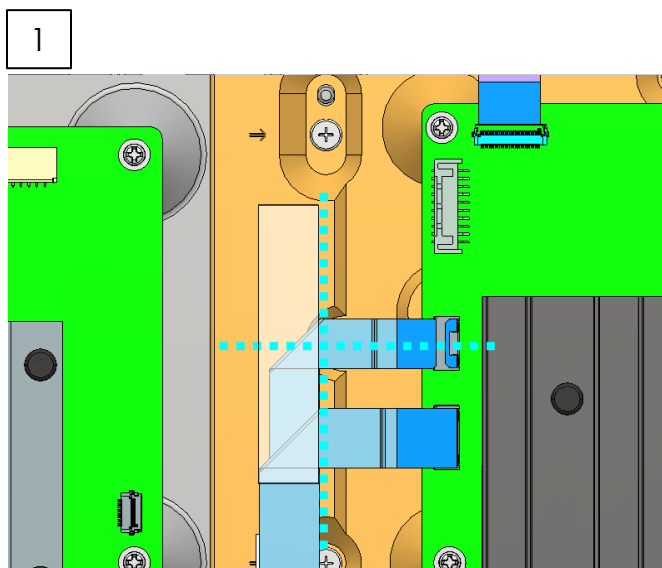
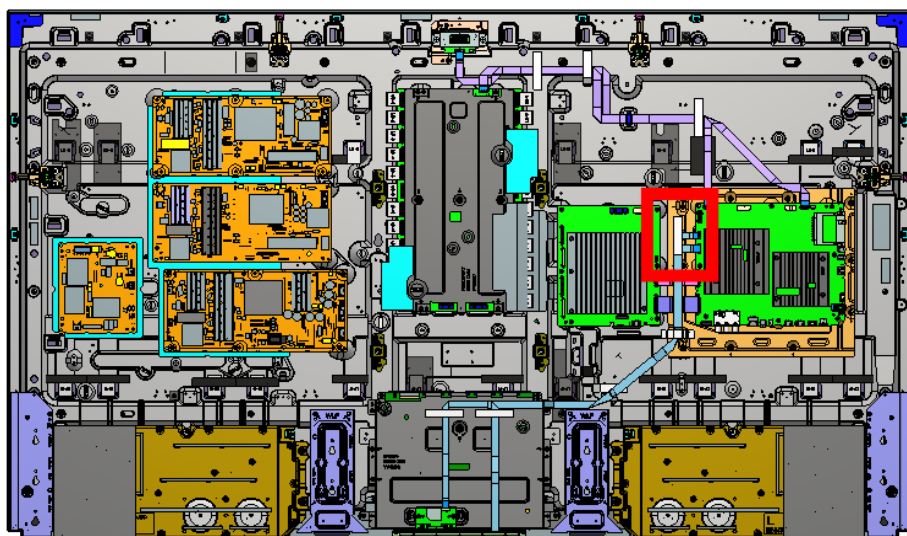
SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

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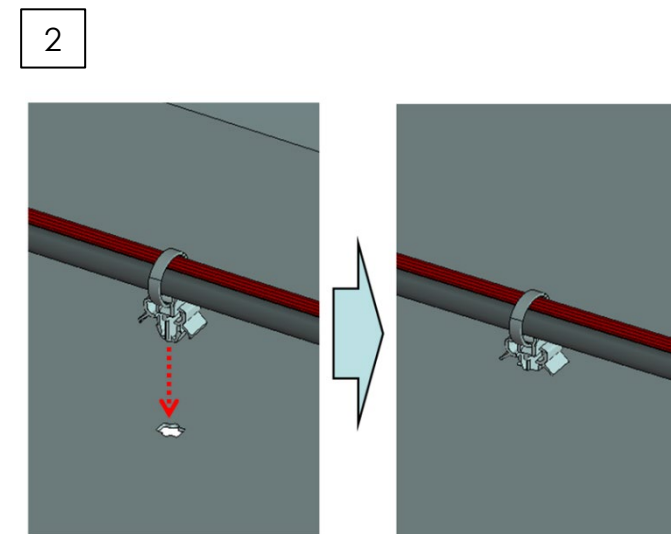
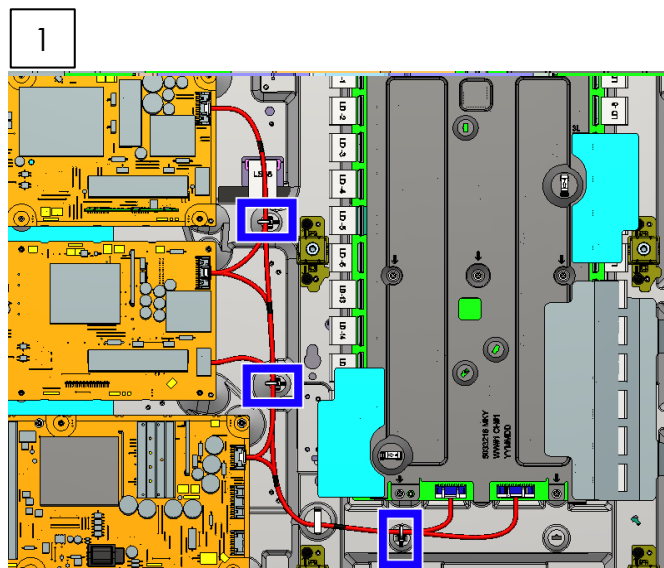
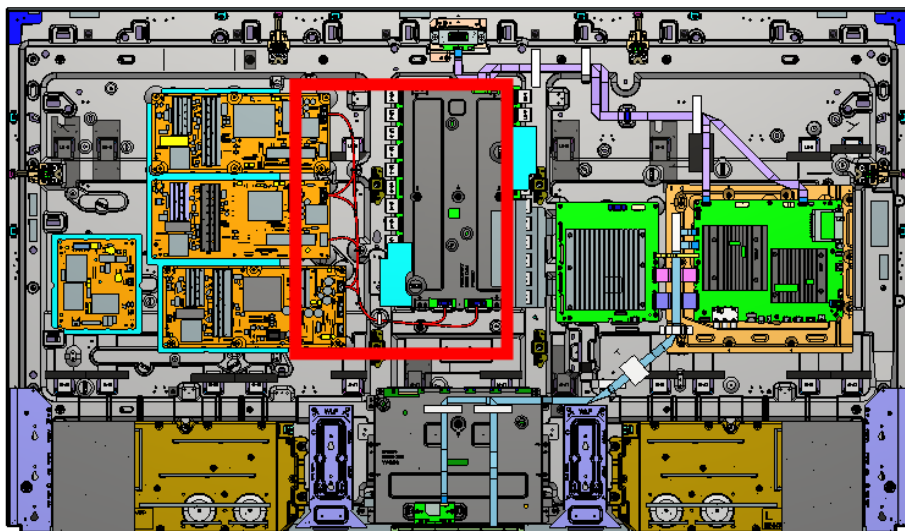
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

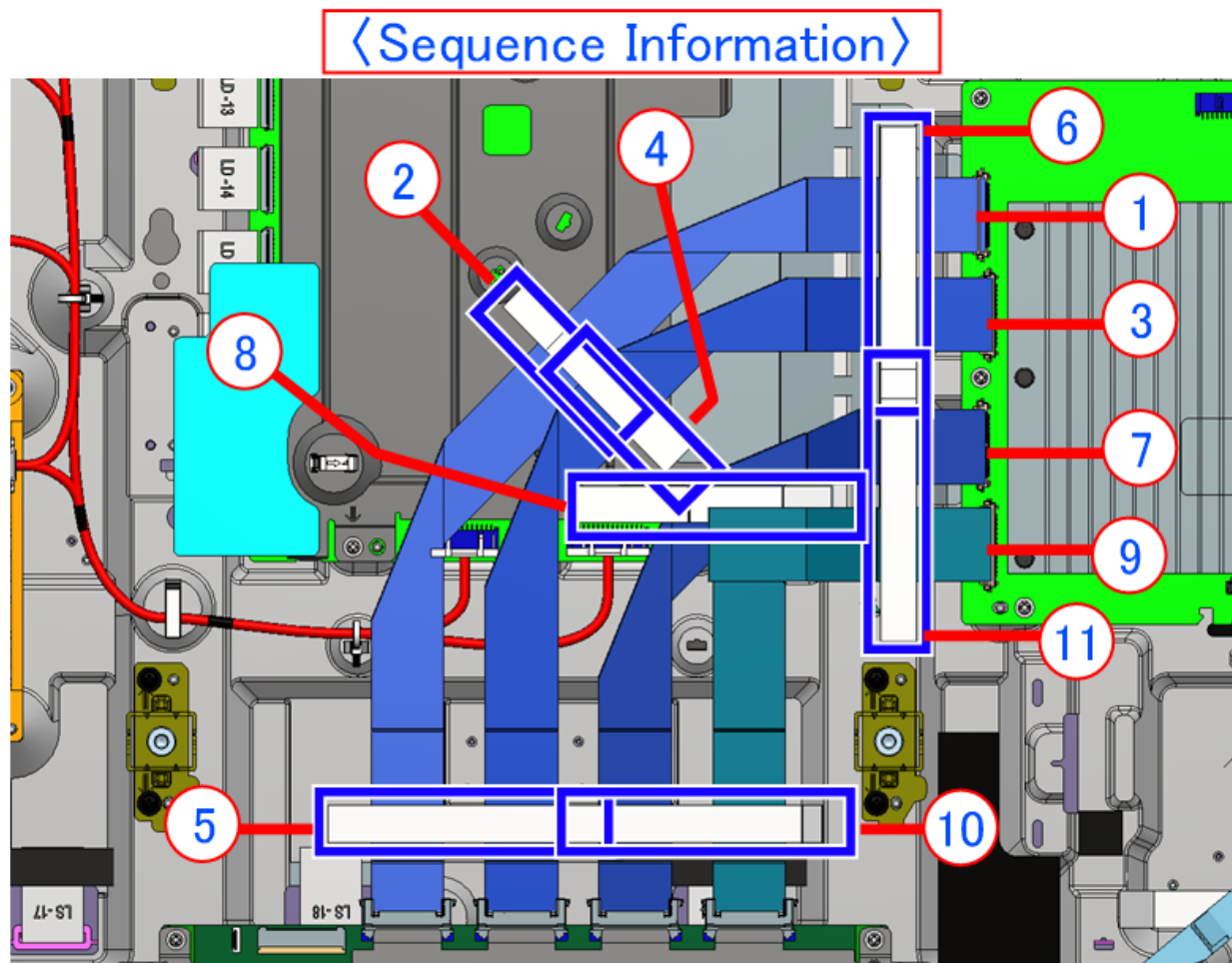
WIRE DRESSING



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

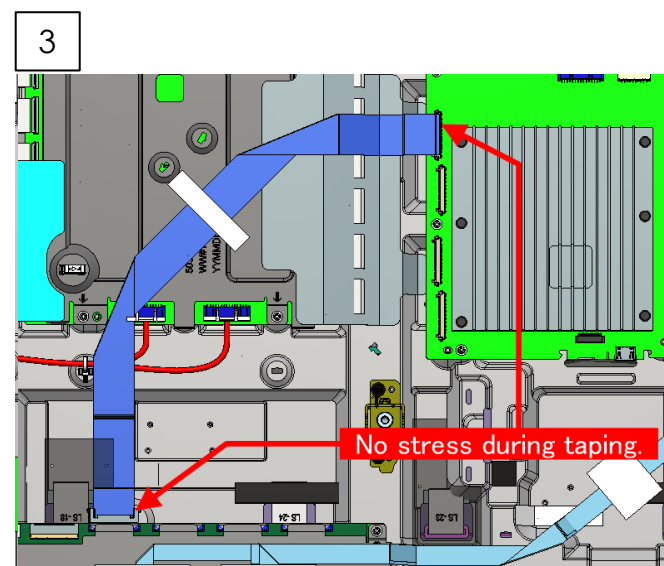
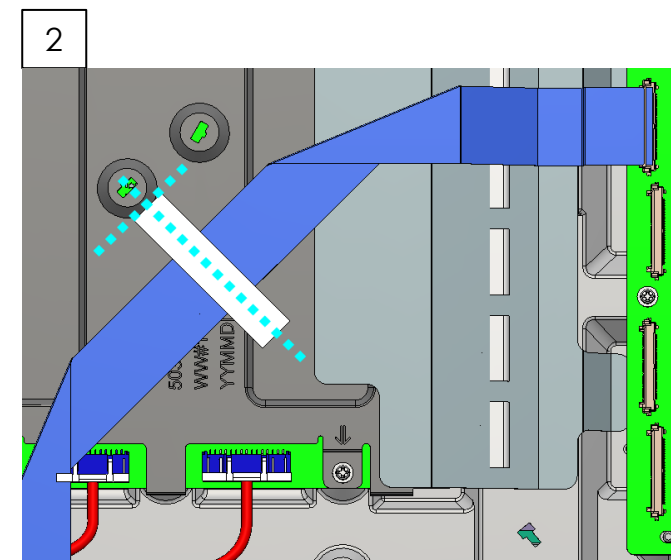
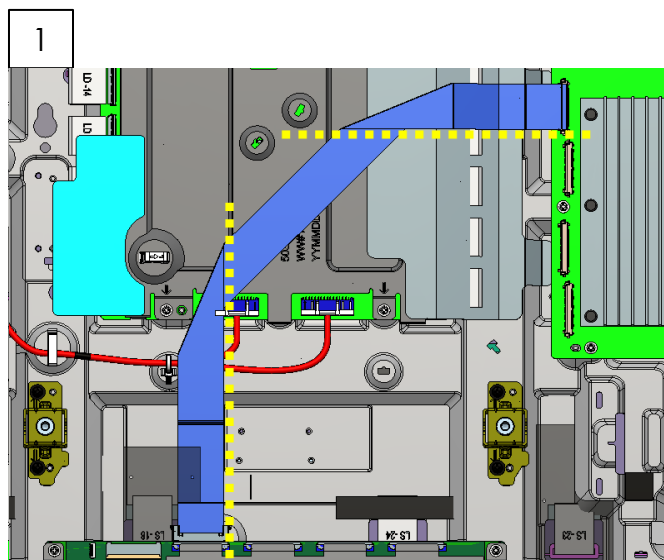
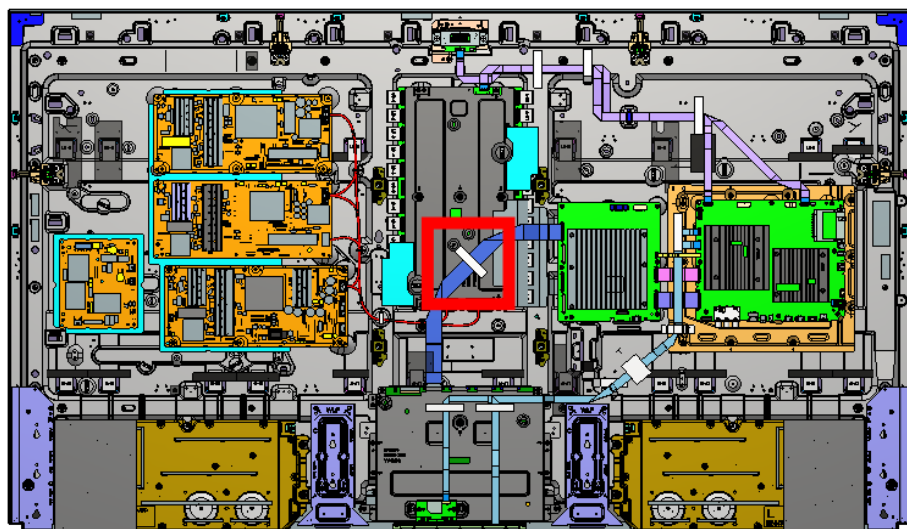
INFORMATION



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

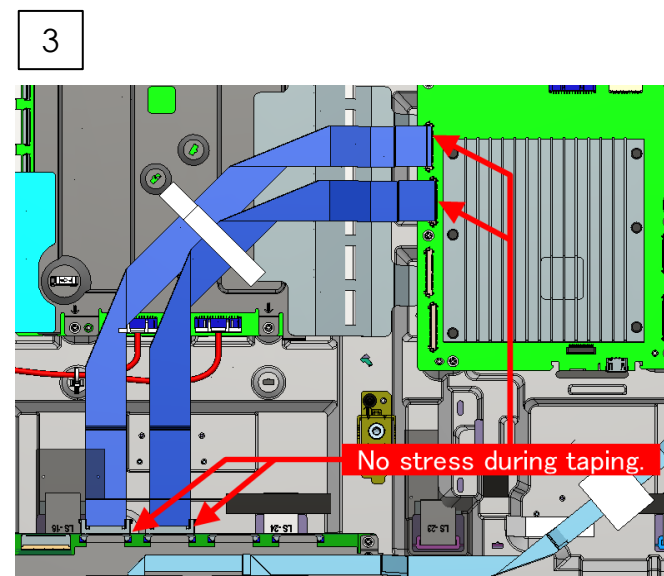
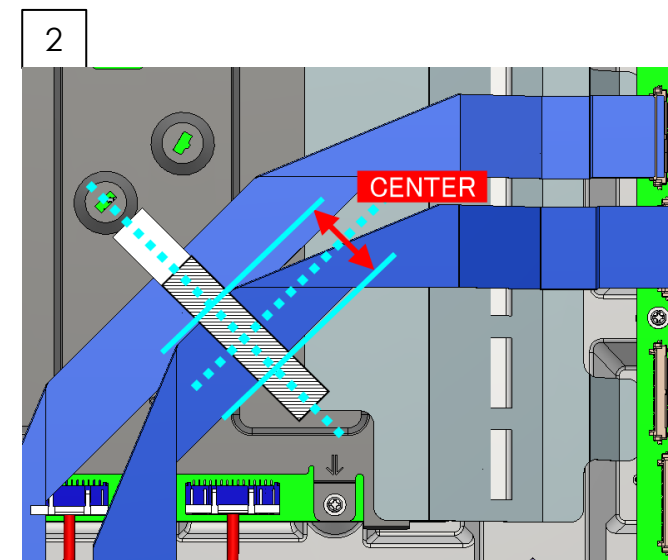
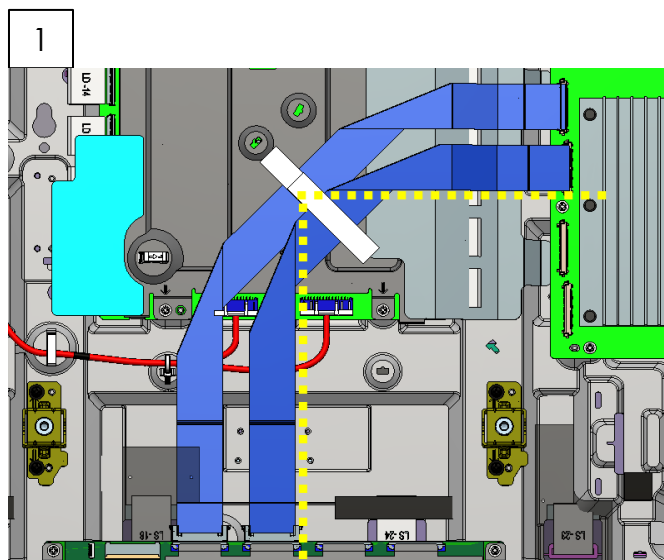
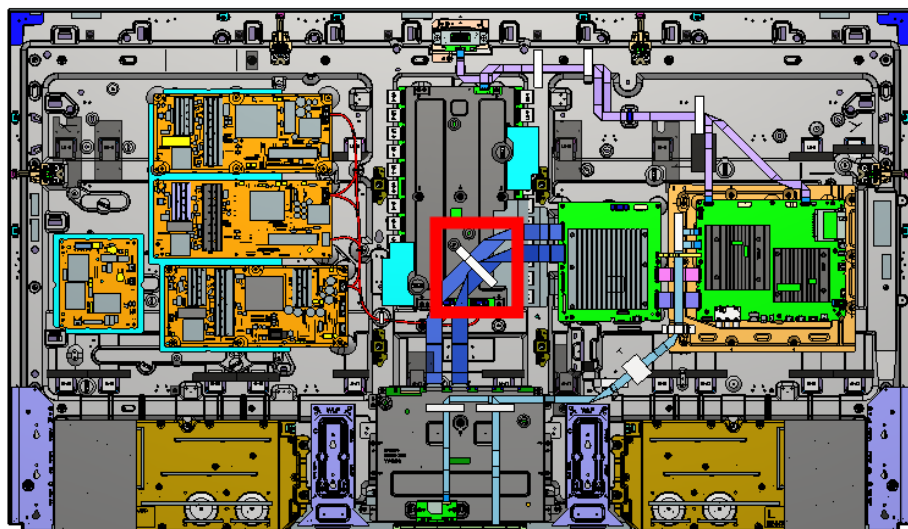
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

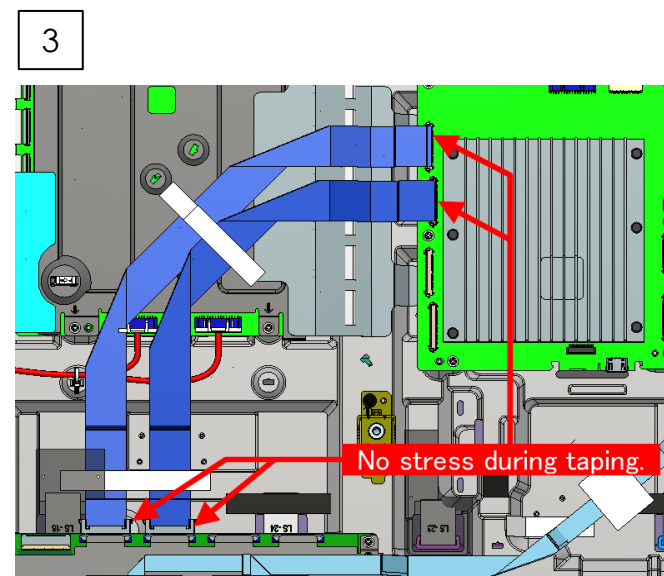
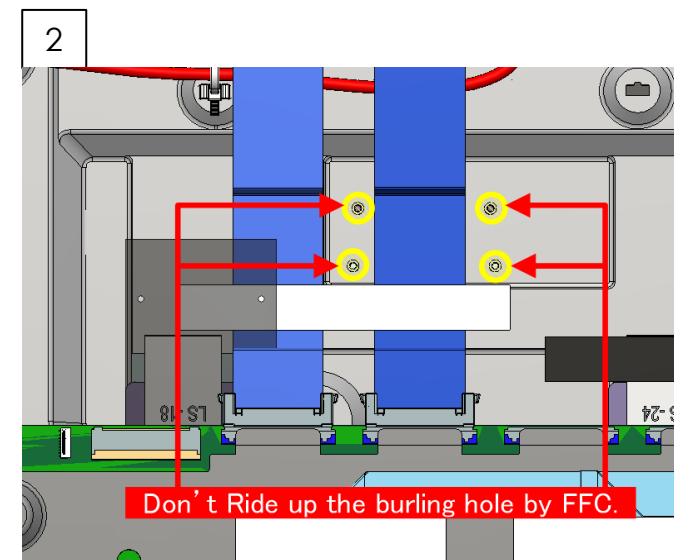
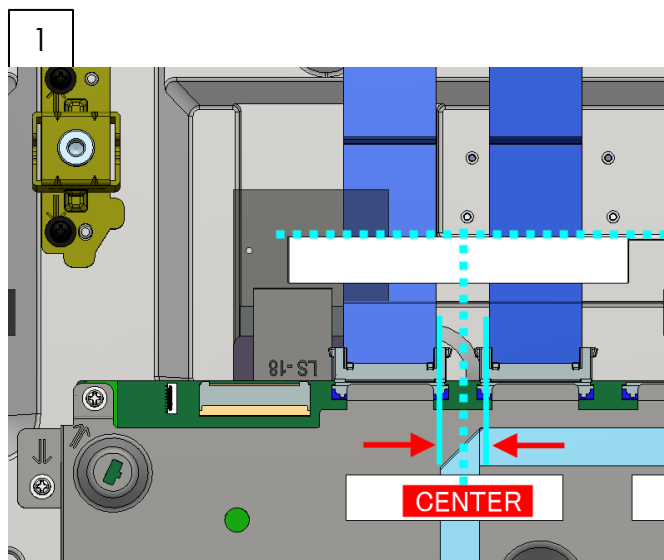
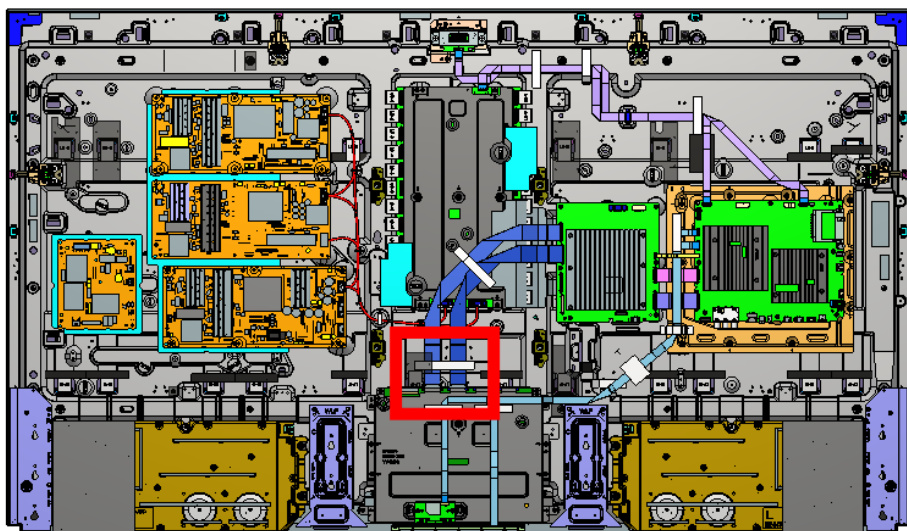
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

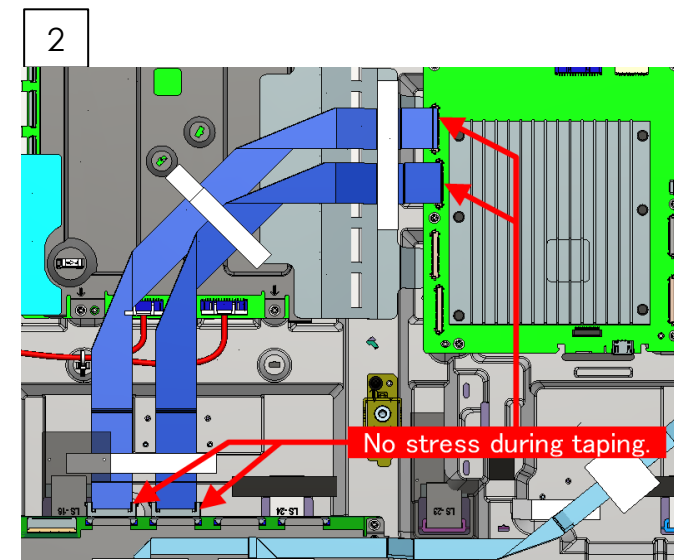
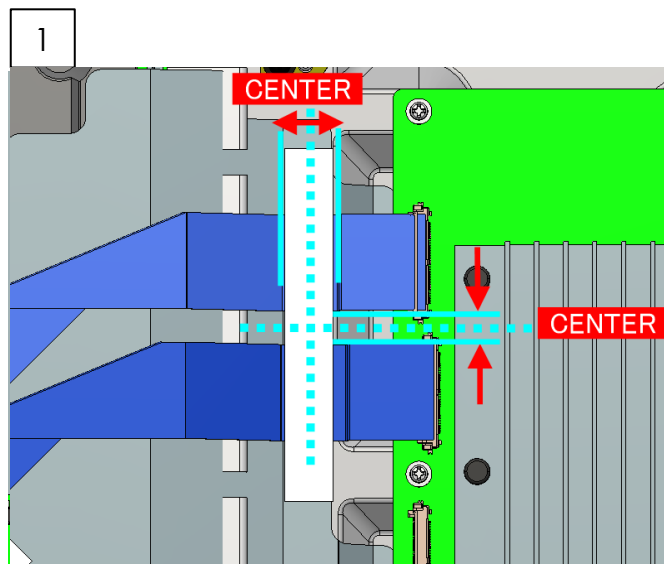
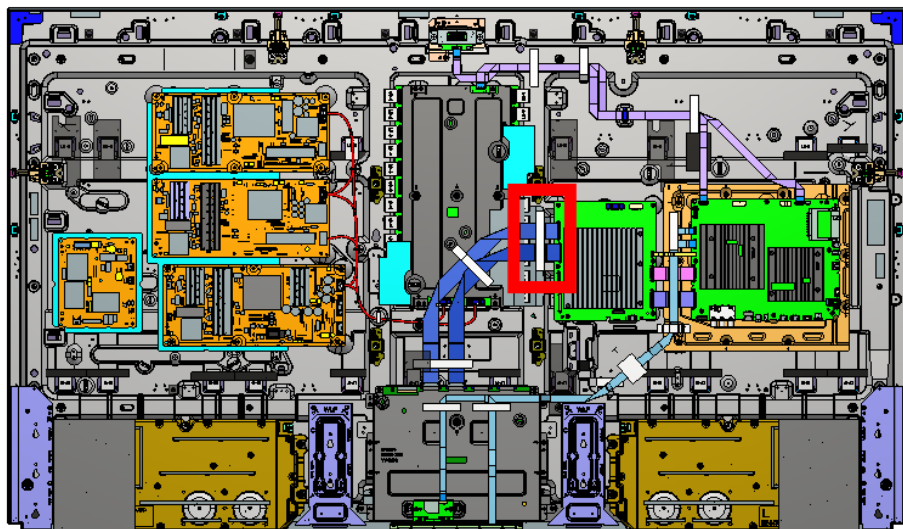
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

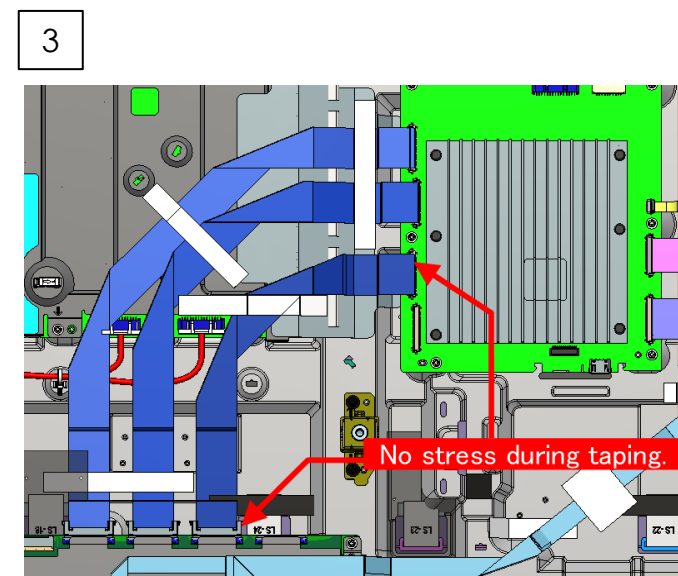
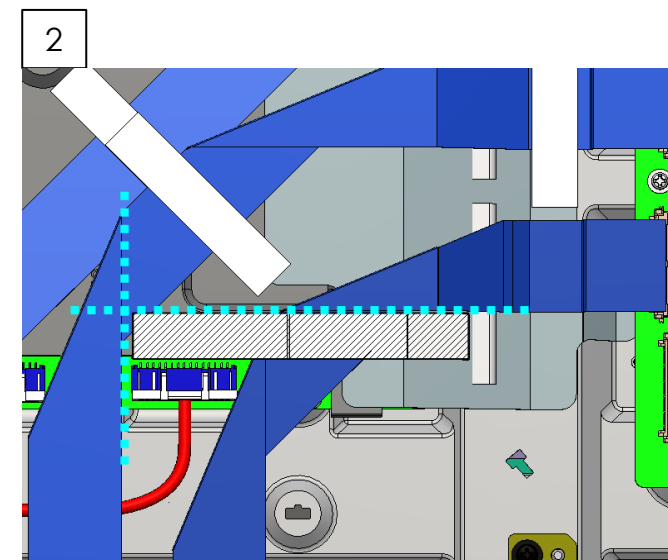
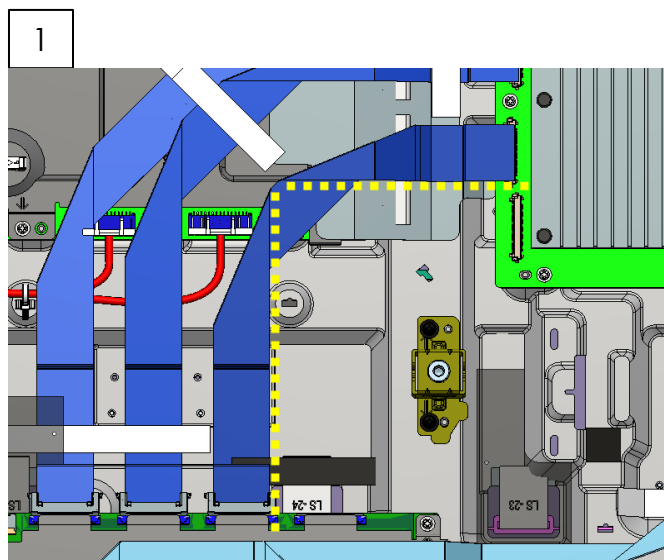
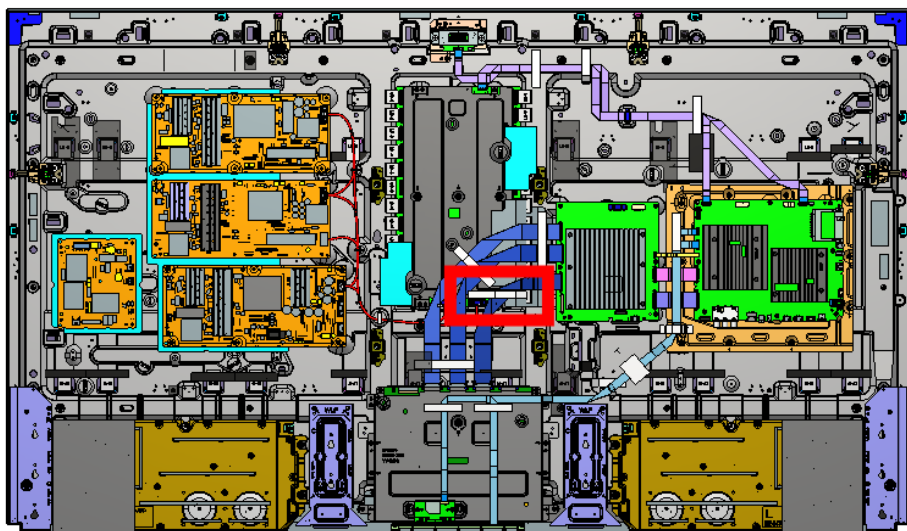
TAPE



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

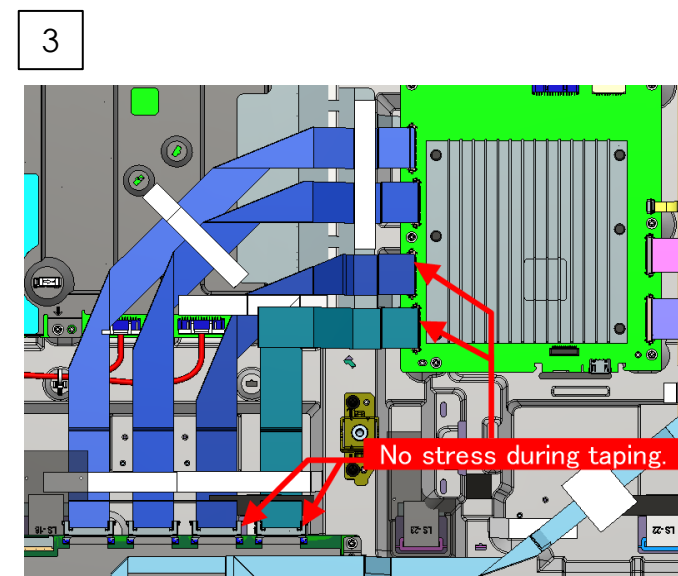
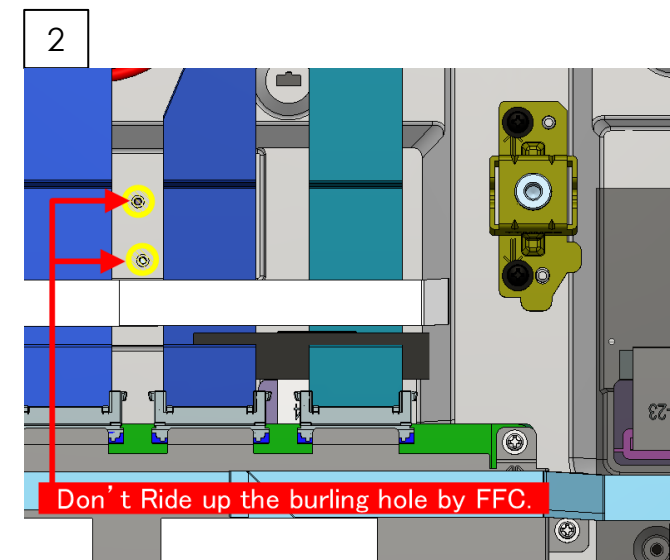
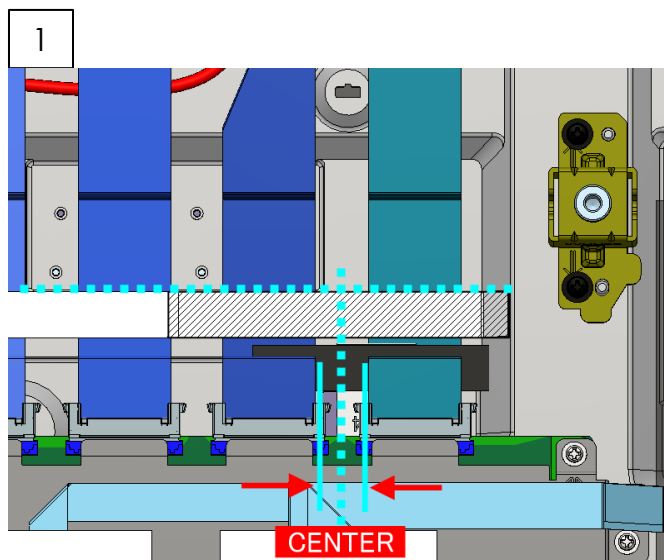
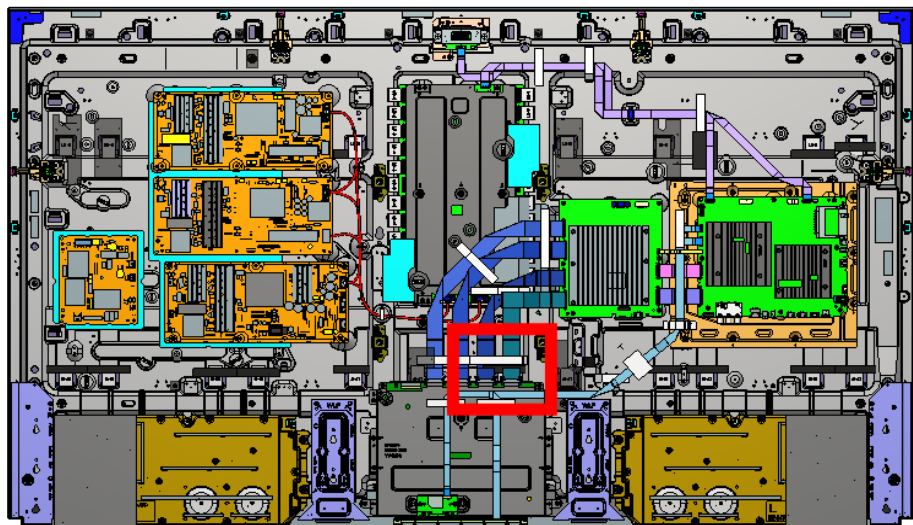
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SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

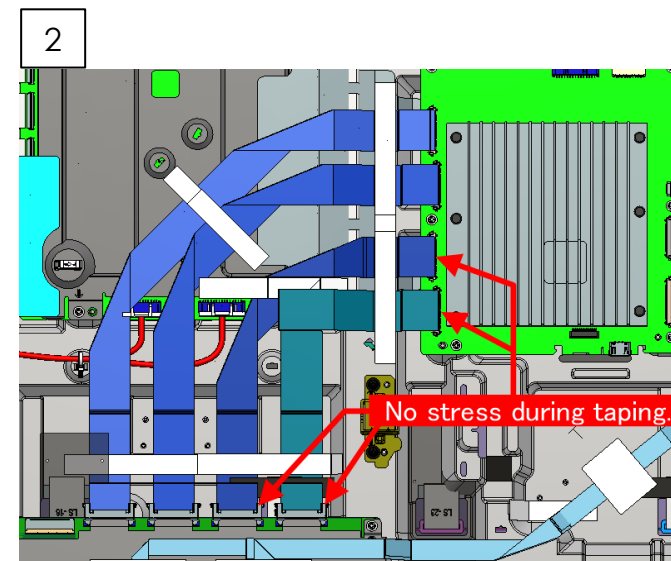
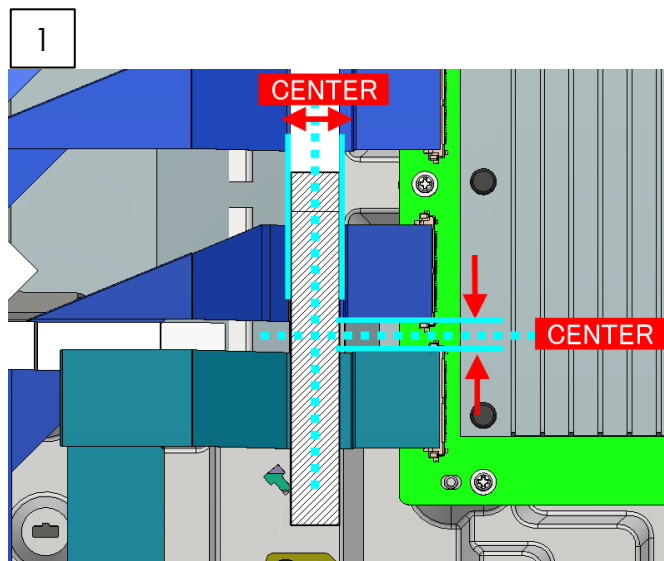
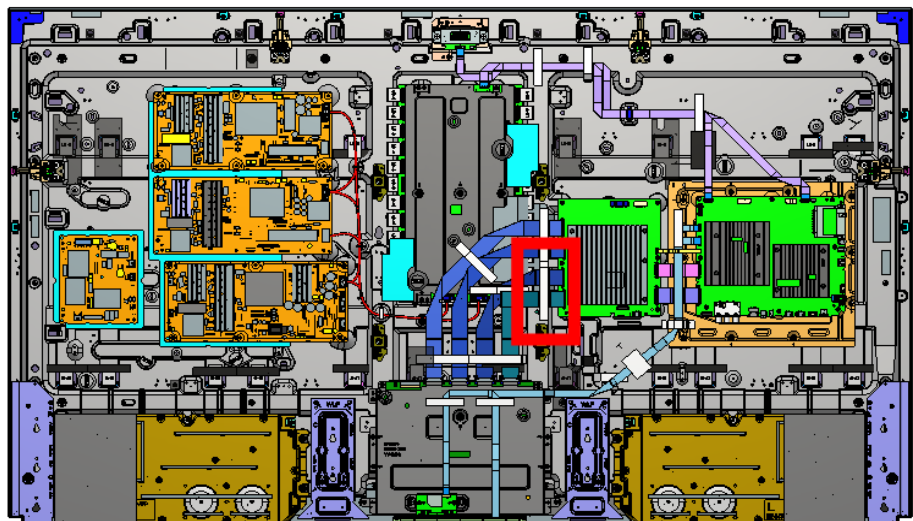
TAPE



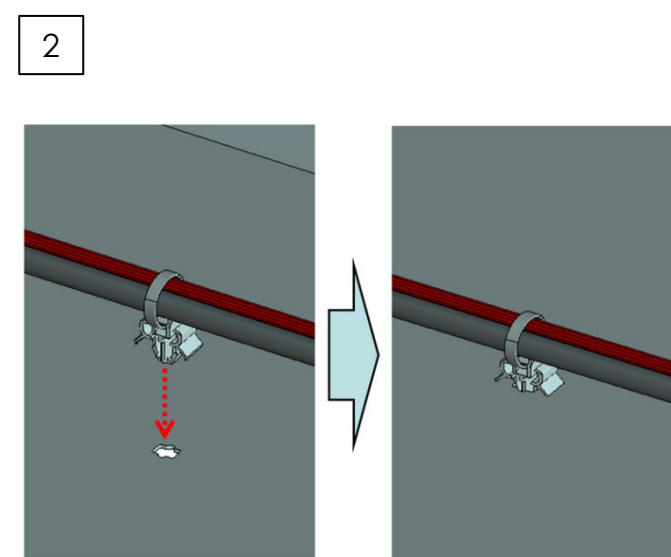
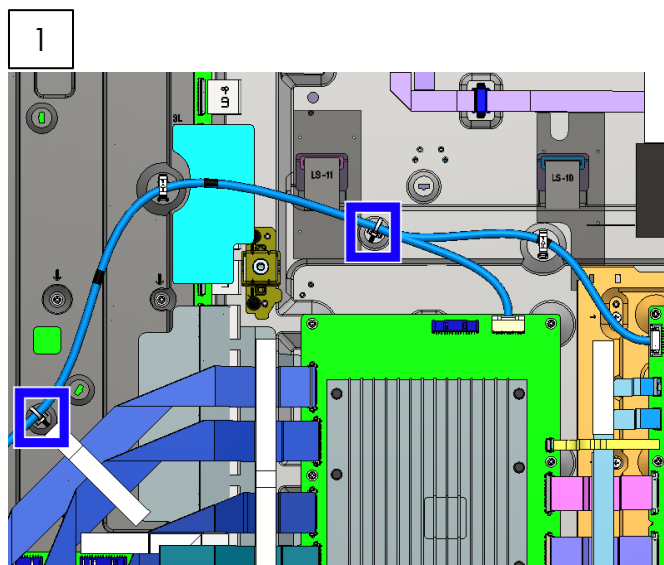
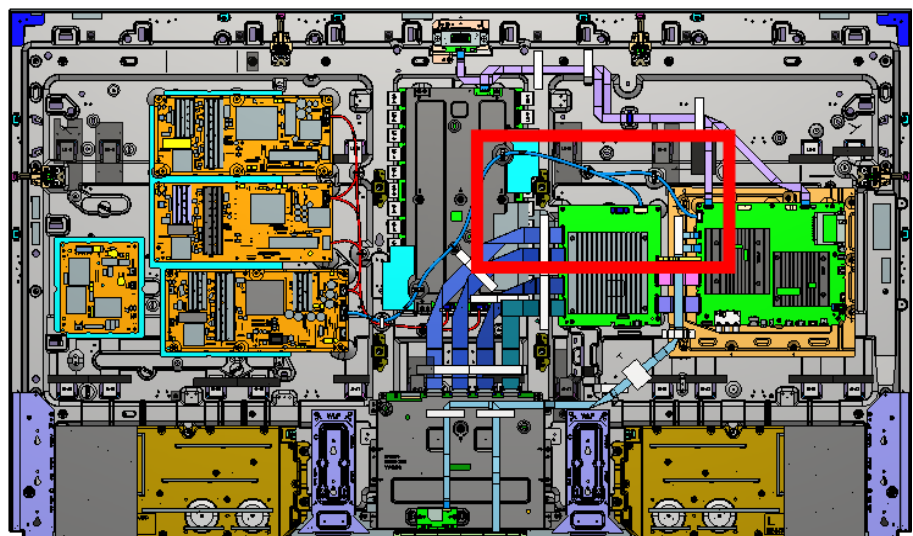
SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

TAPE



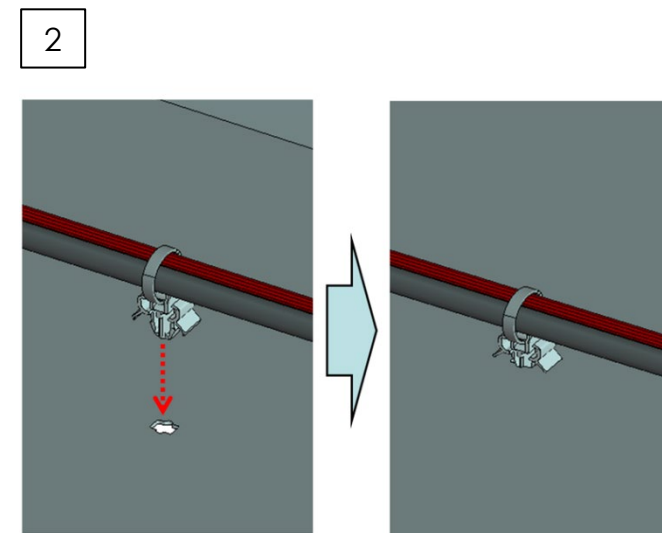
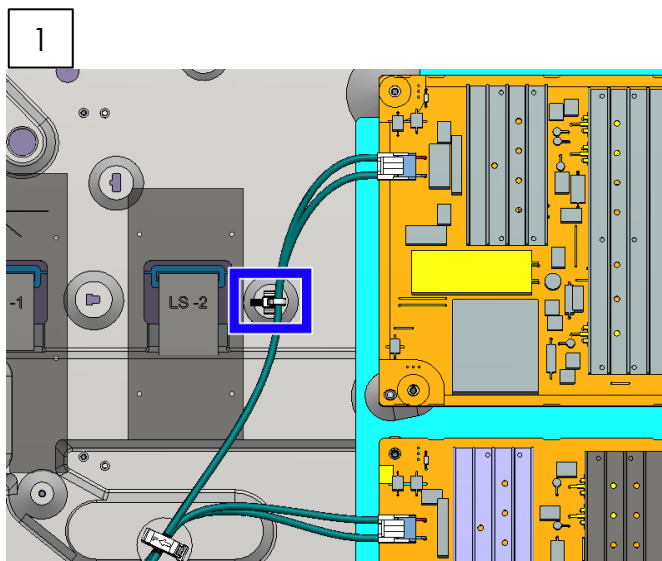
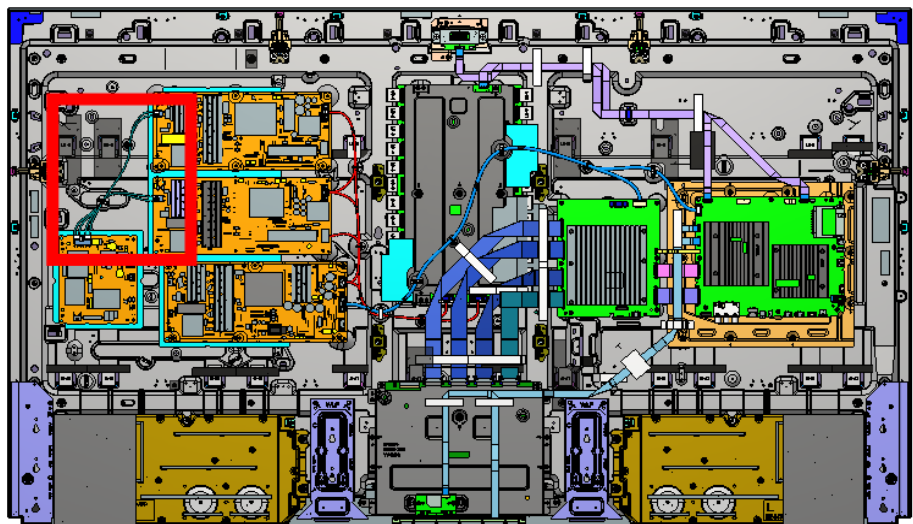
WIRE DRESSING



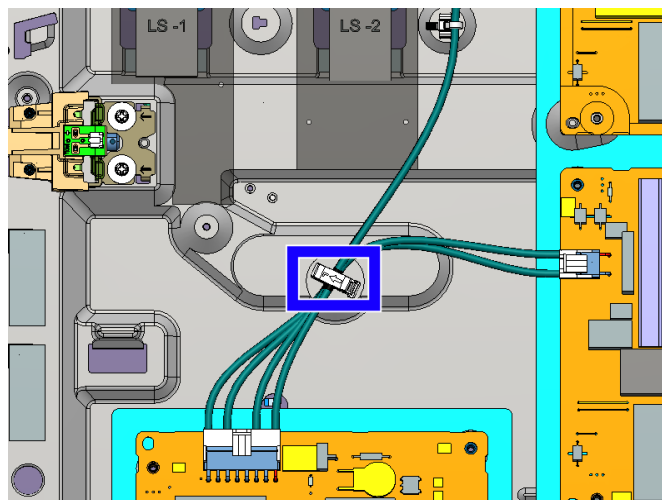
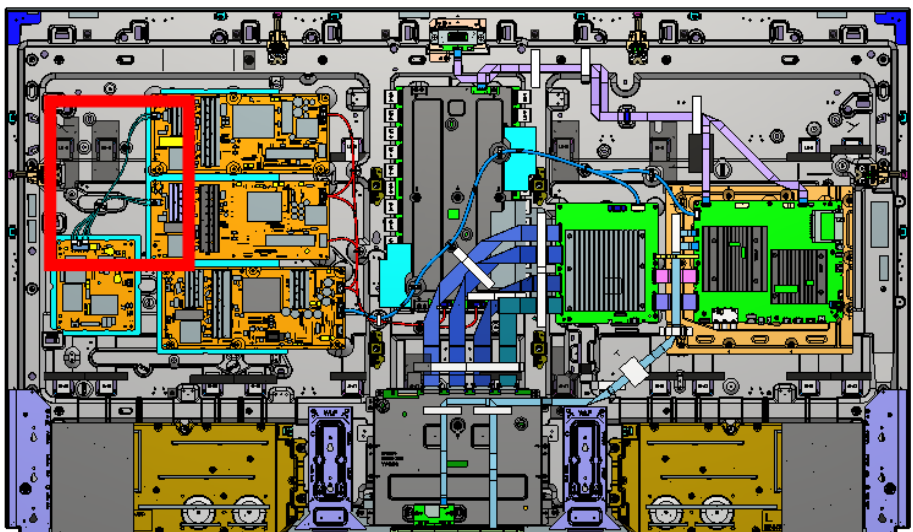
SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

WIRE DRESSING



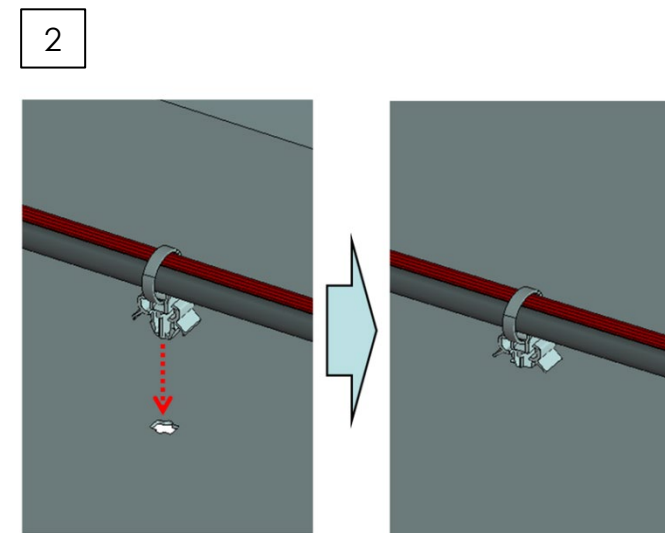
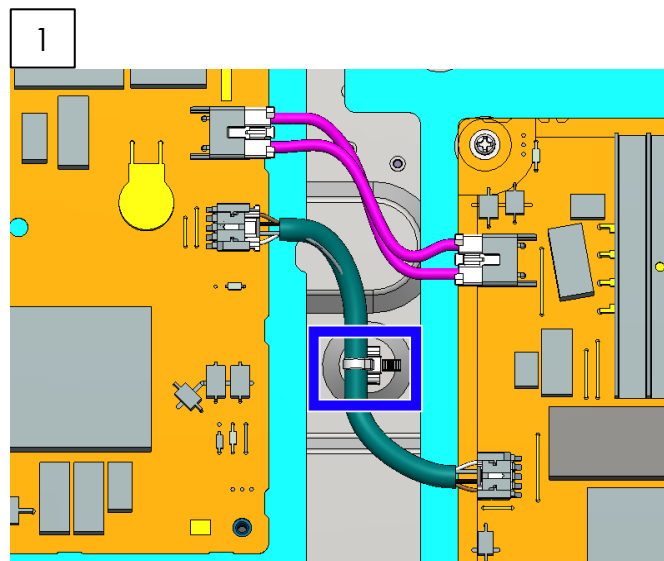
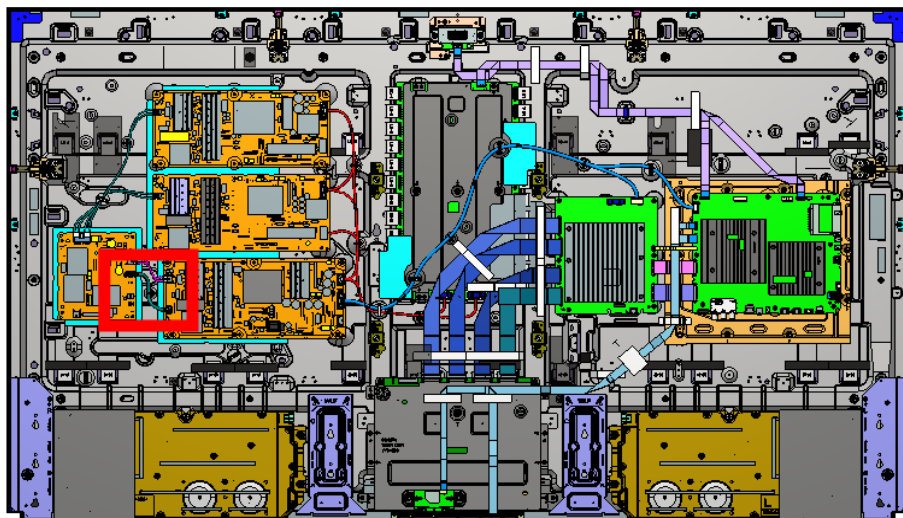
WIRE DRESSING



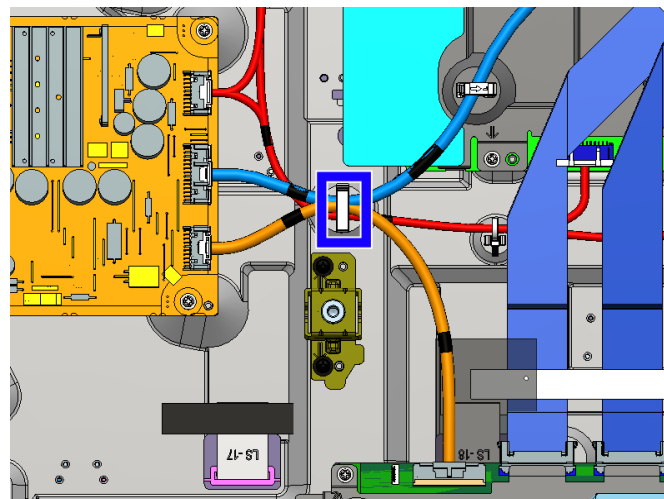
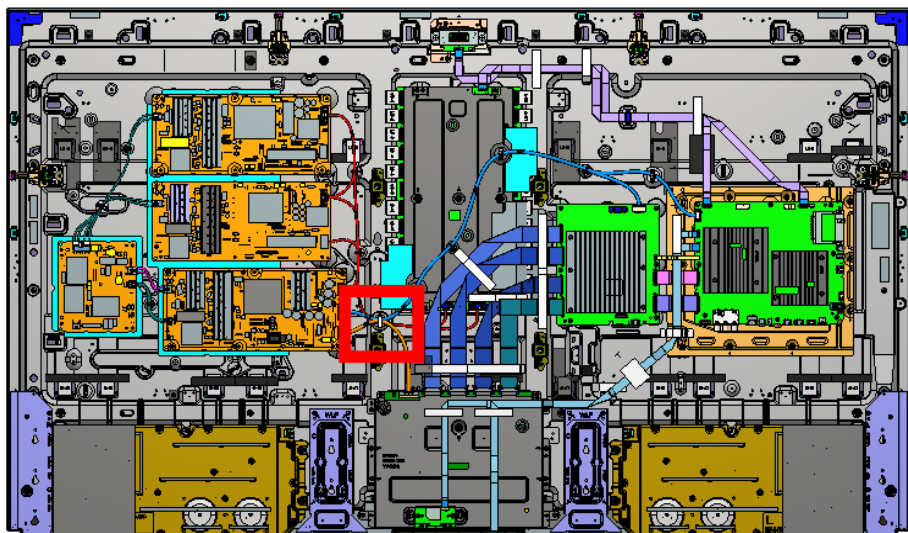
SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

WIRE DRESSING



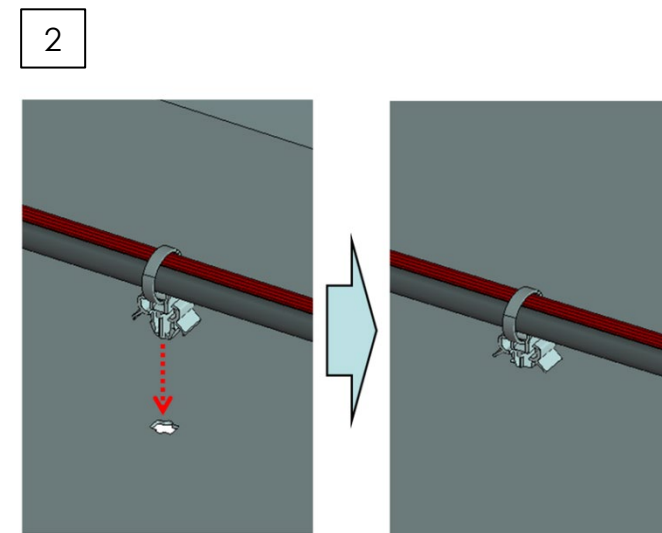
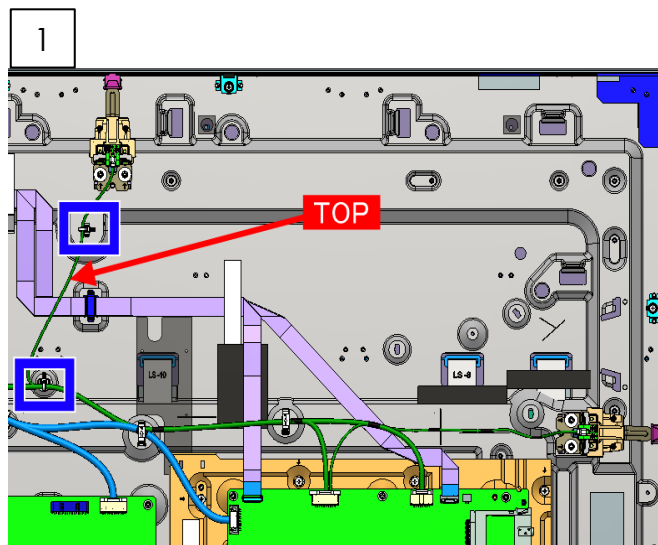
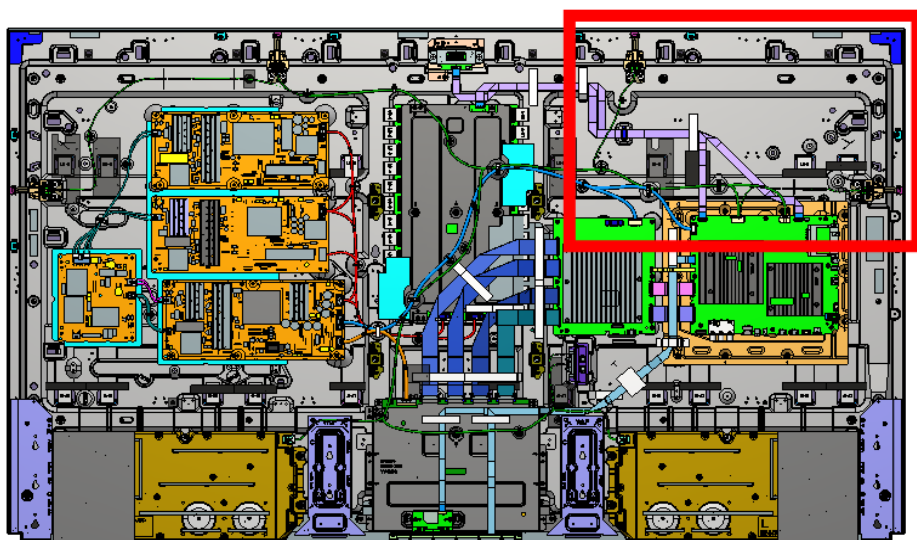
WIRE DRESSING



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

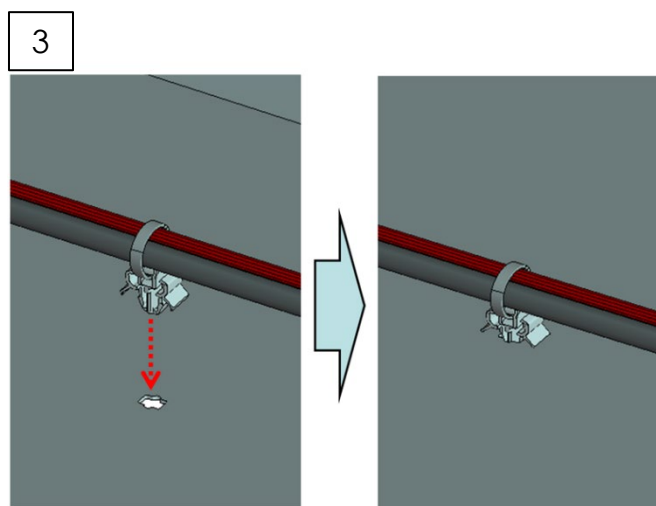
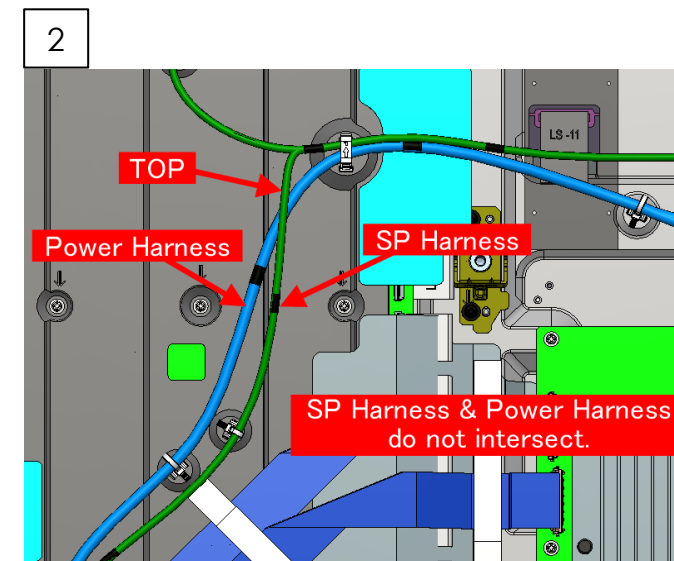
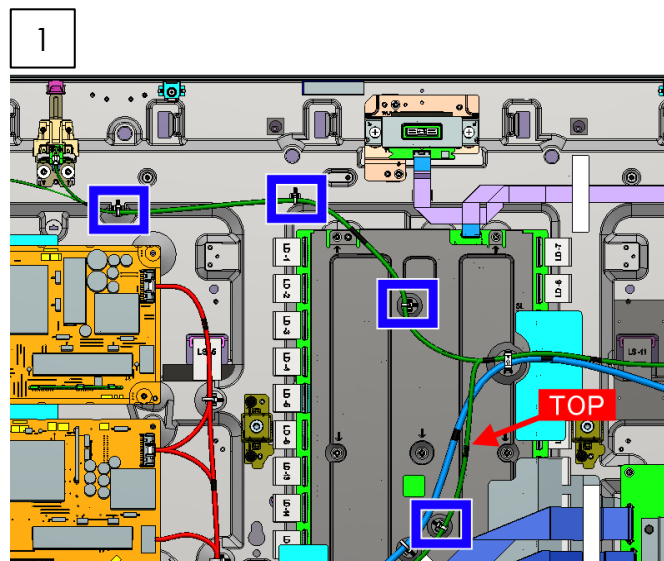
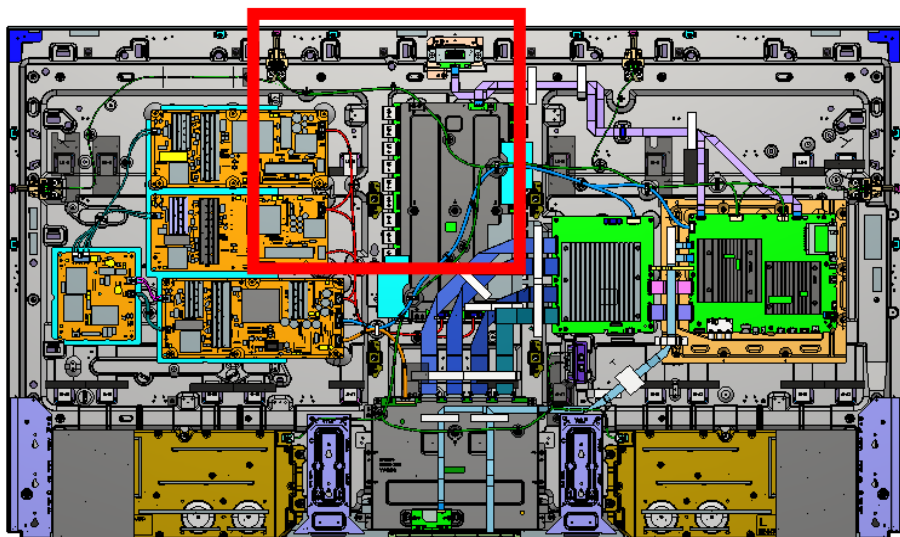
WIRE DRESSING



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

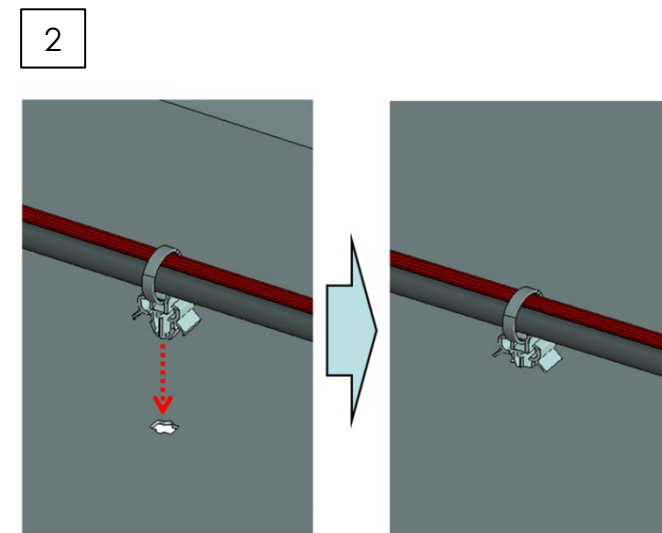
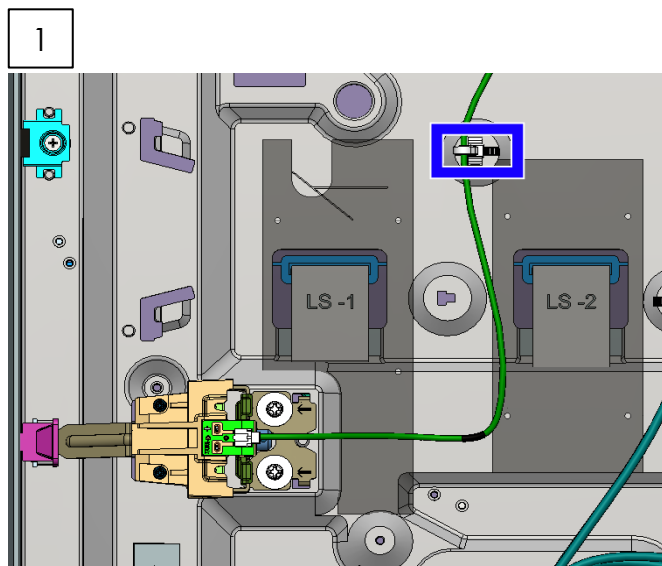
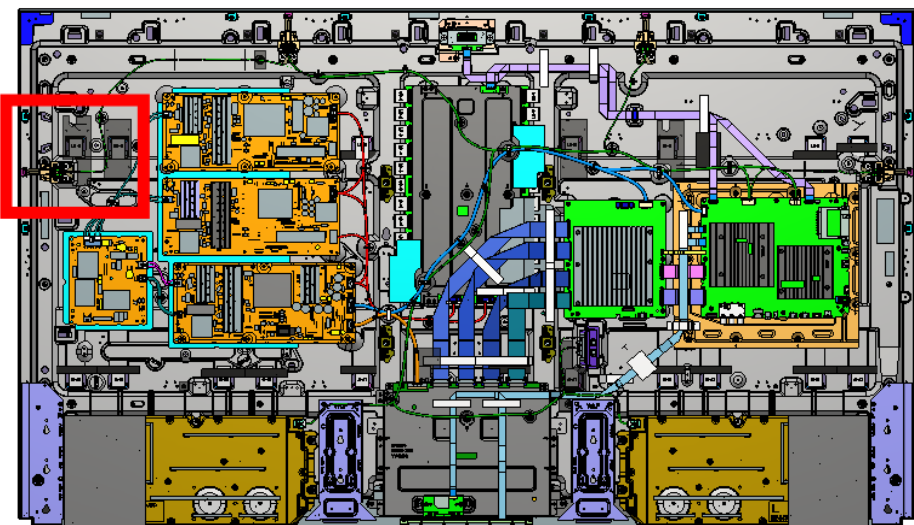
WIRE DRESSING



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

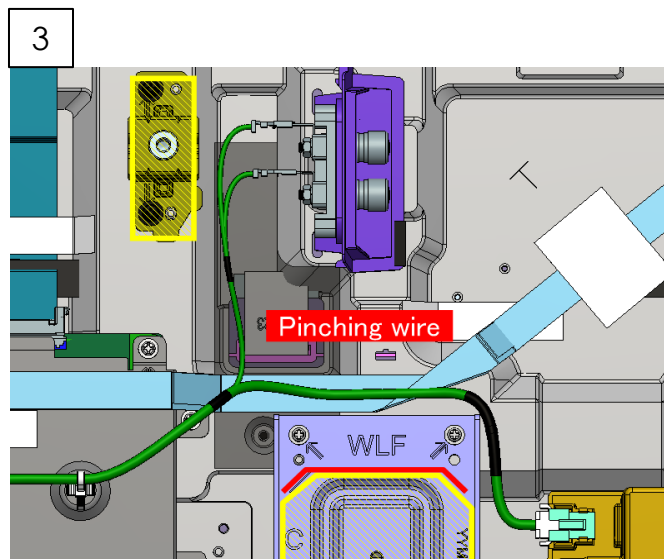
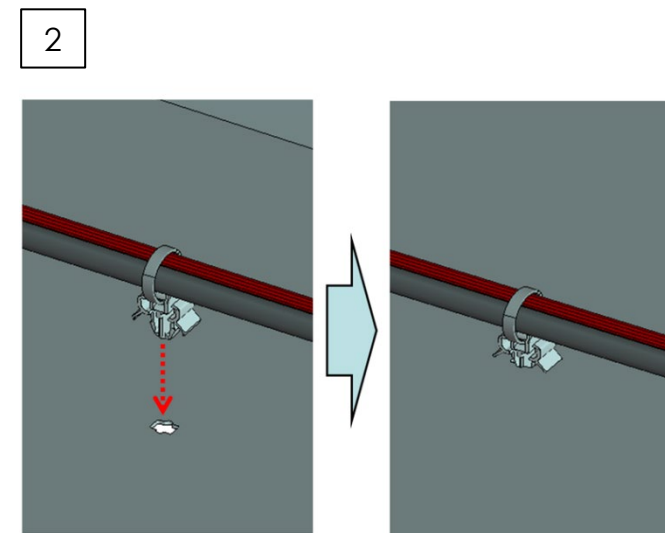
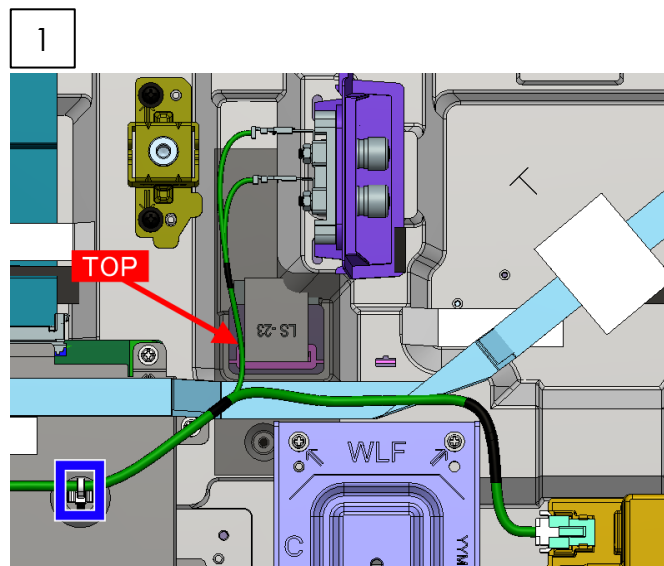
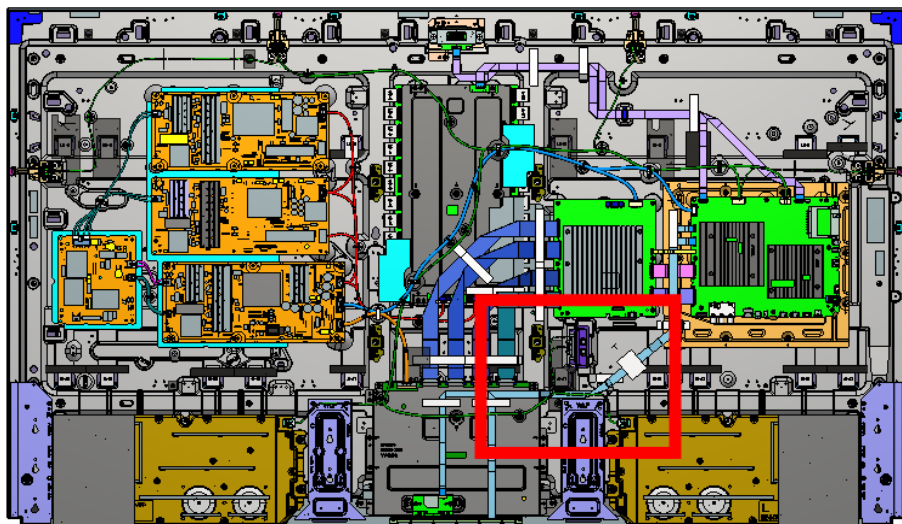
WIRE DRESSING



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

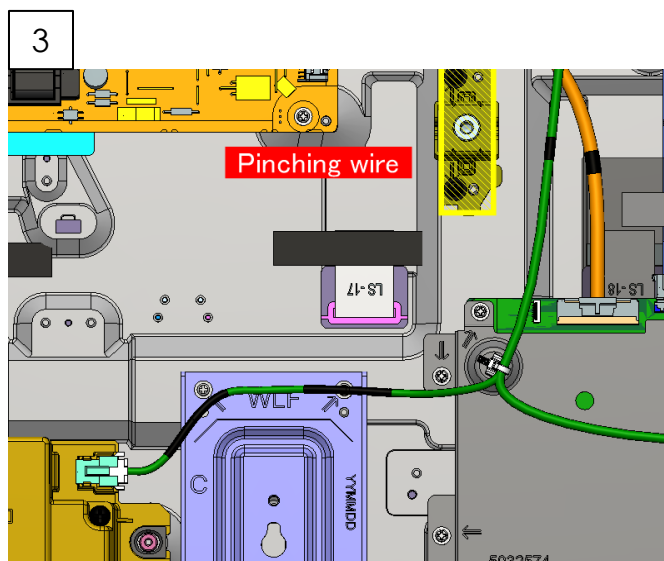
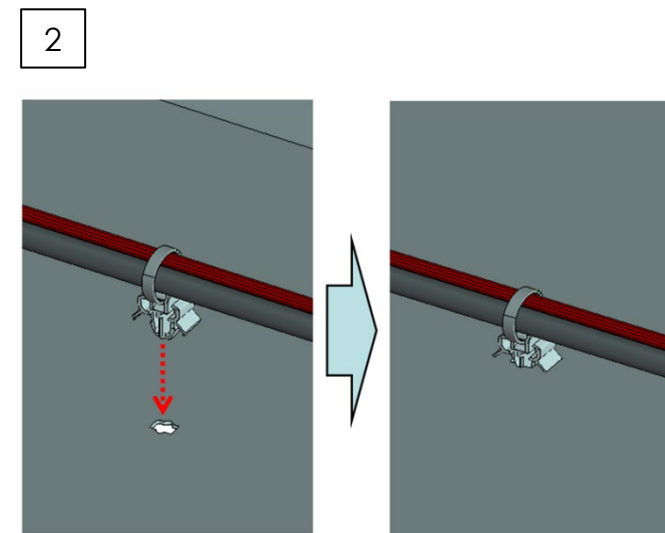
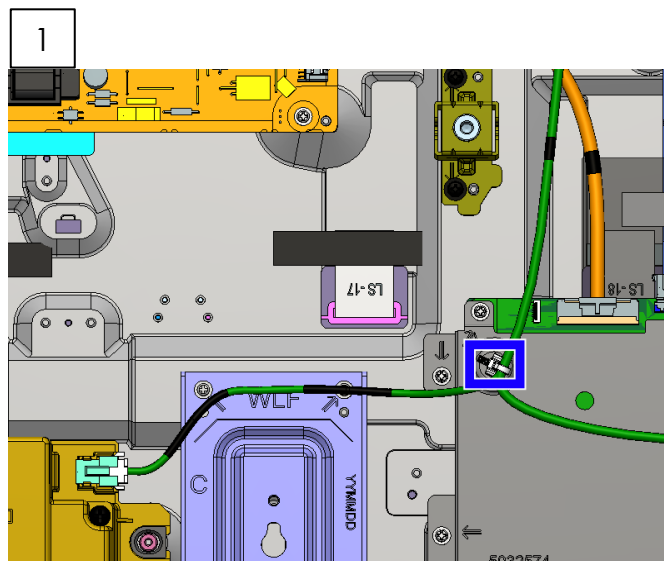
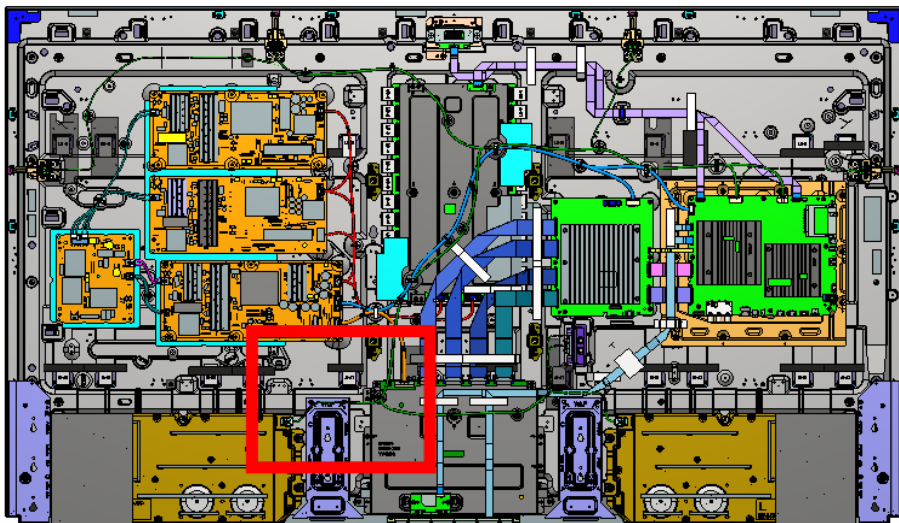
WIRE DRESSING



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

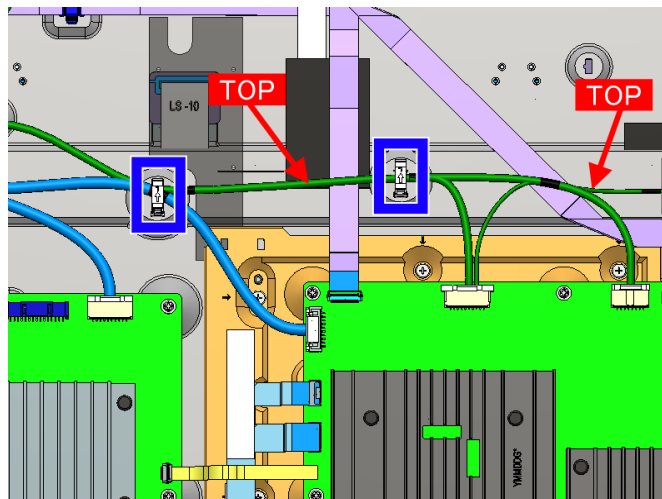
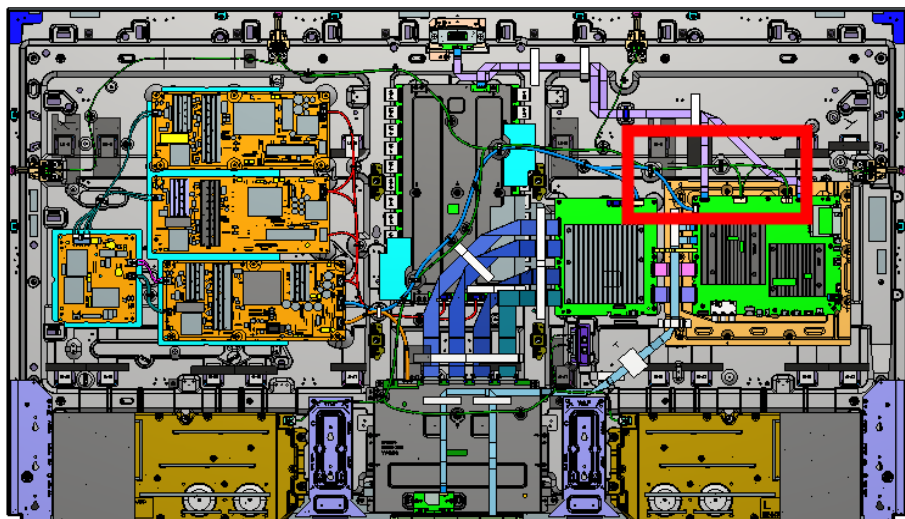
WIRE DRESSING



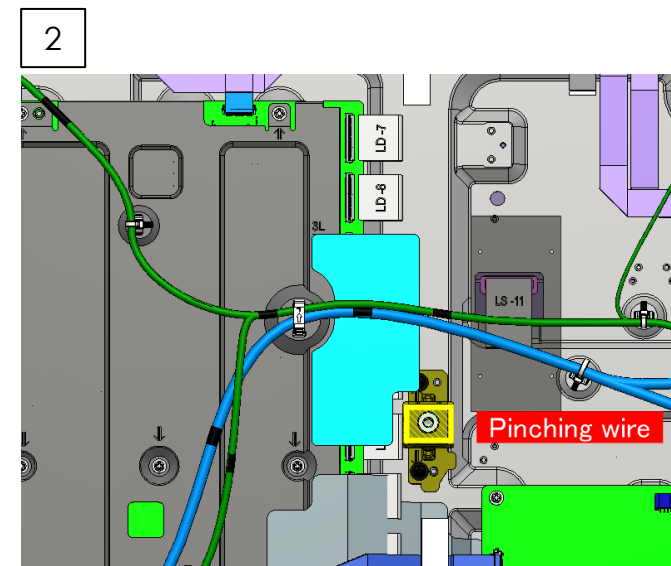
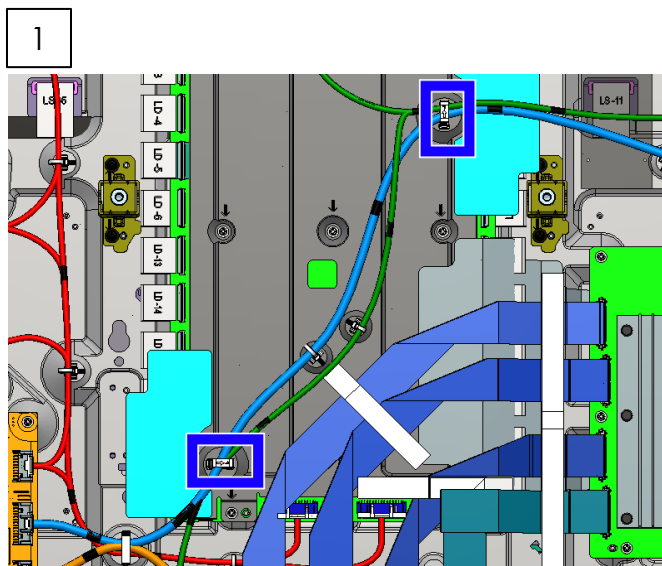
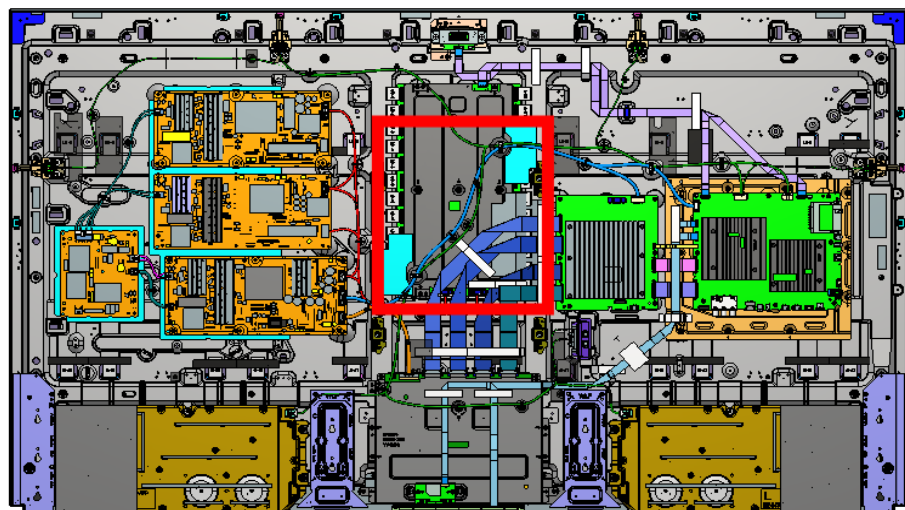
SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

WIRE DRESSING



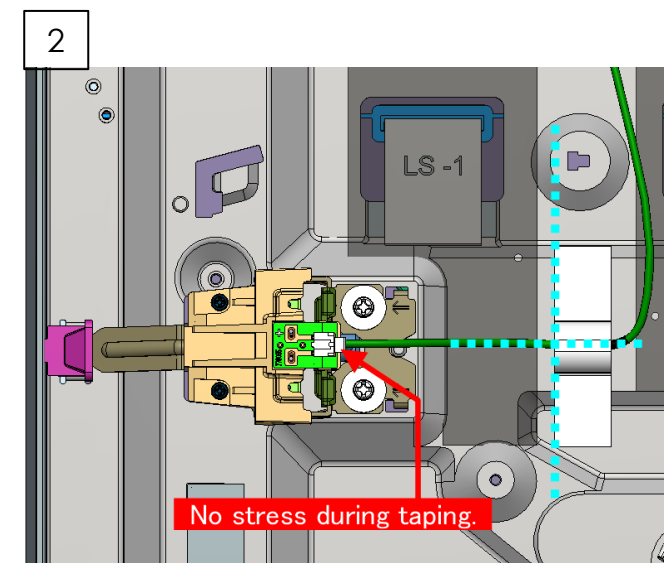
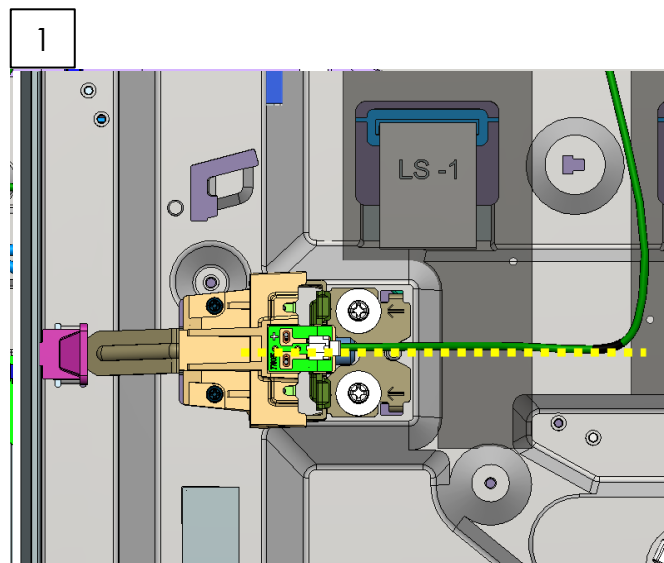
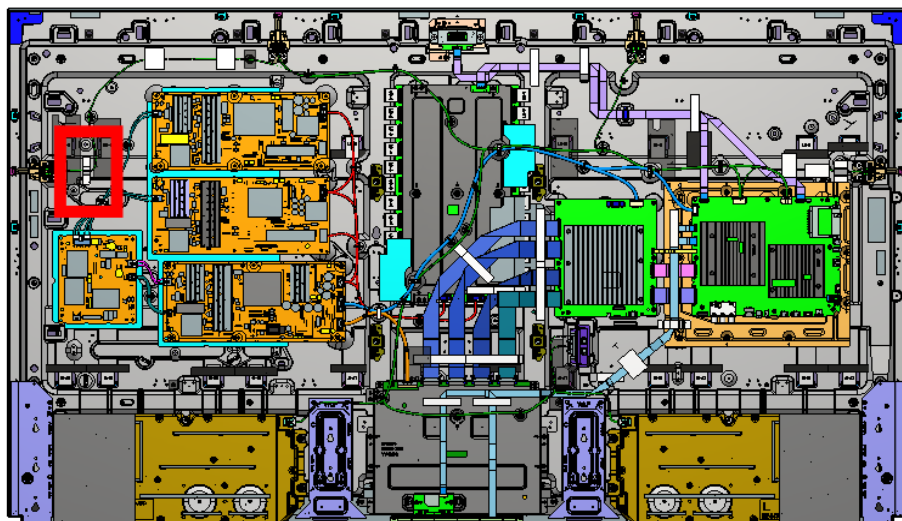
WIRE DRESSING



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

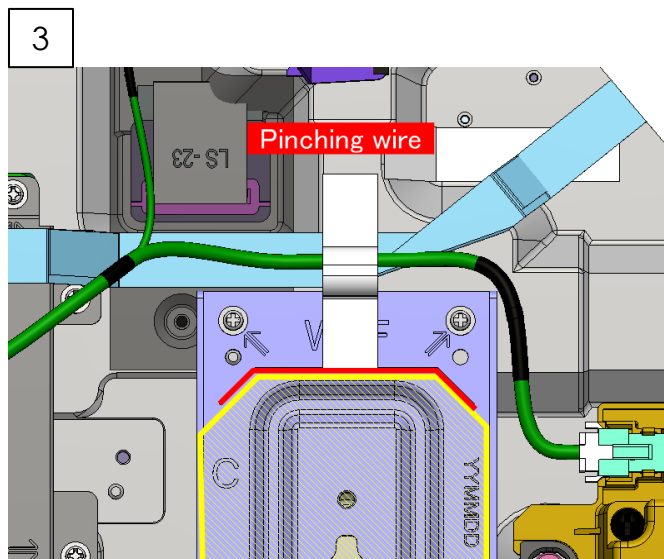
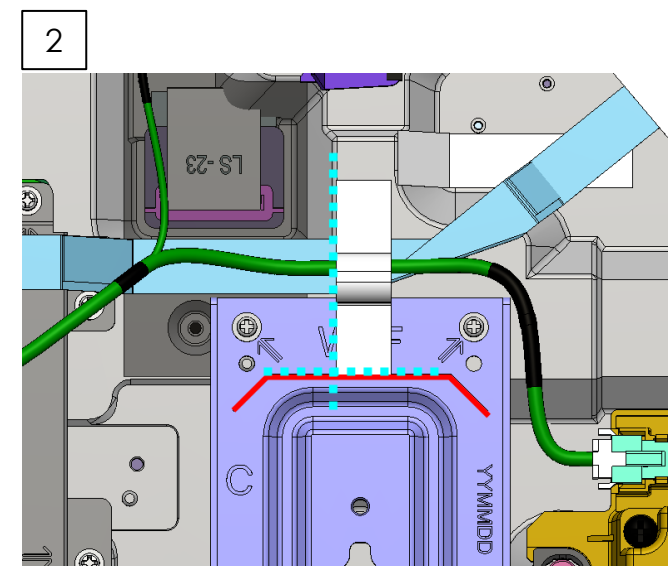
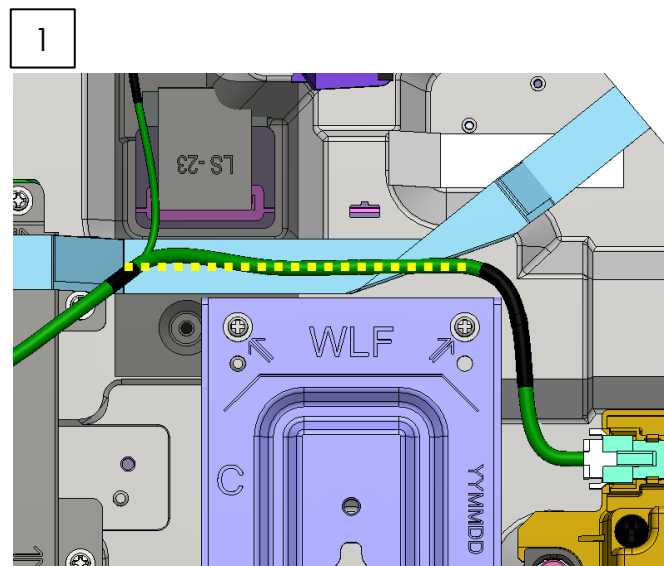
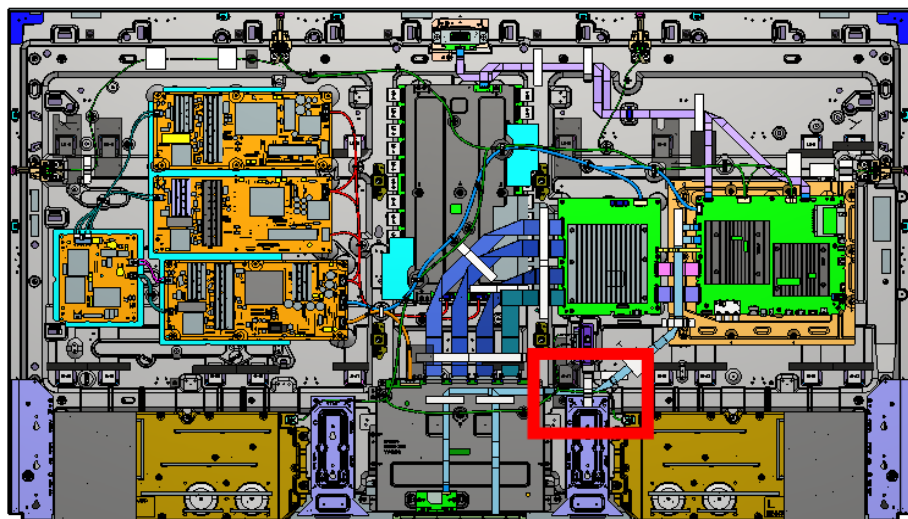
TAPE



SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

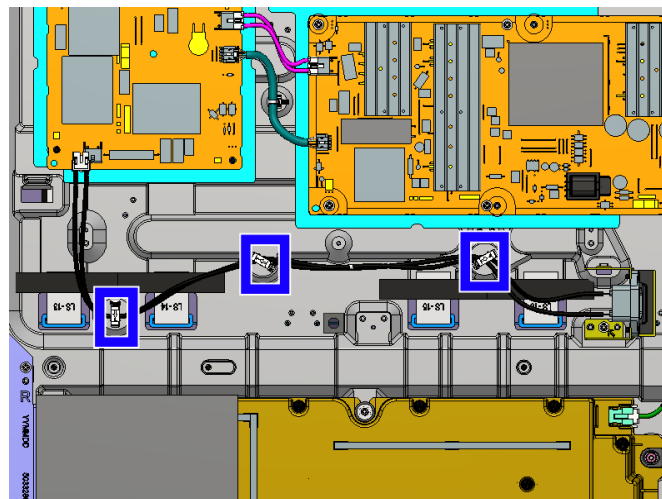
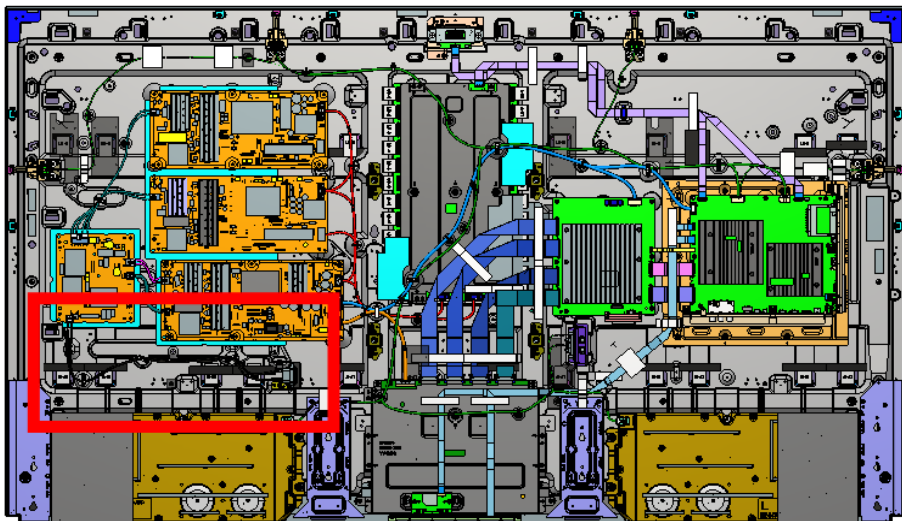
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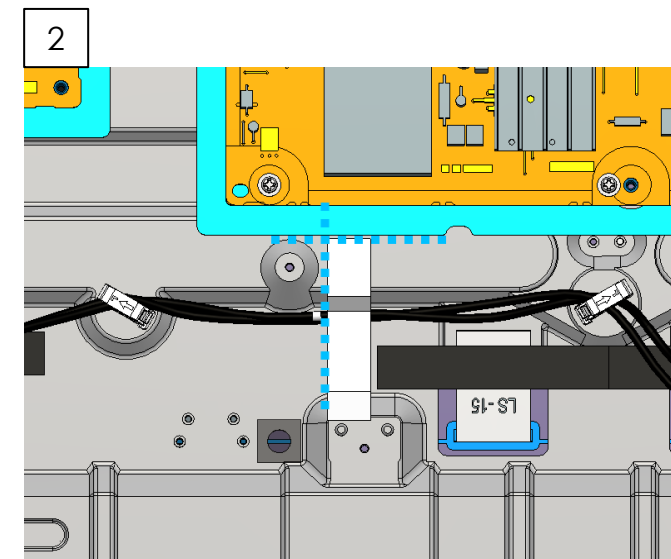
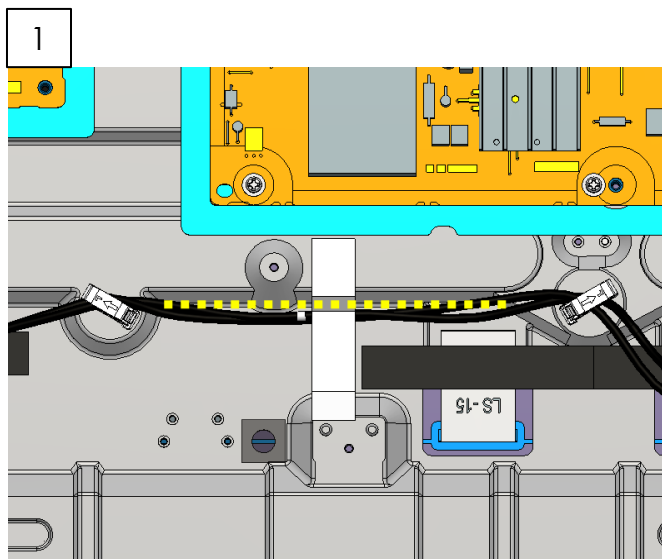
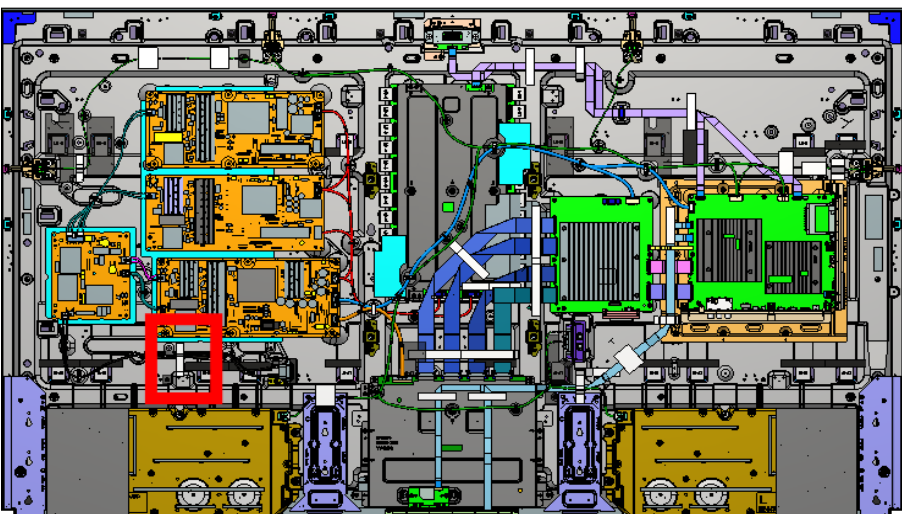
SECTION 1: XR-75Z9K

1-3. WIRE DRESSING

WIRE DRESSING

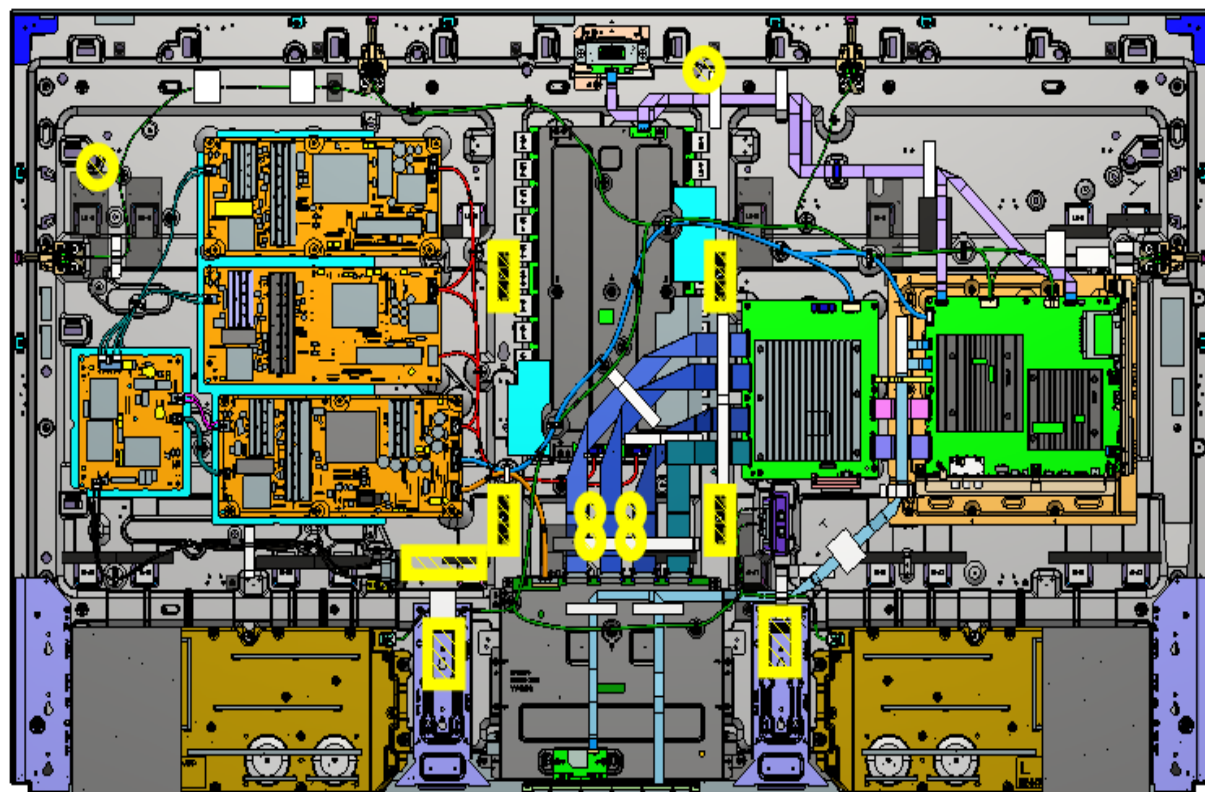


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INFORMATION

Keep harness away from inhibit area.

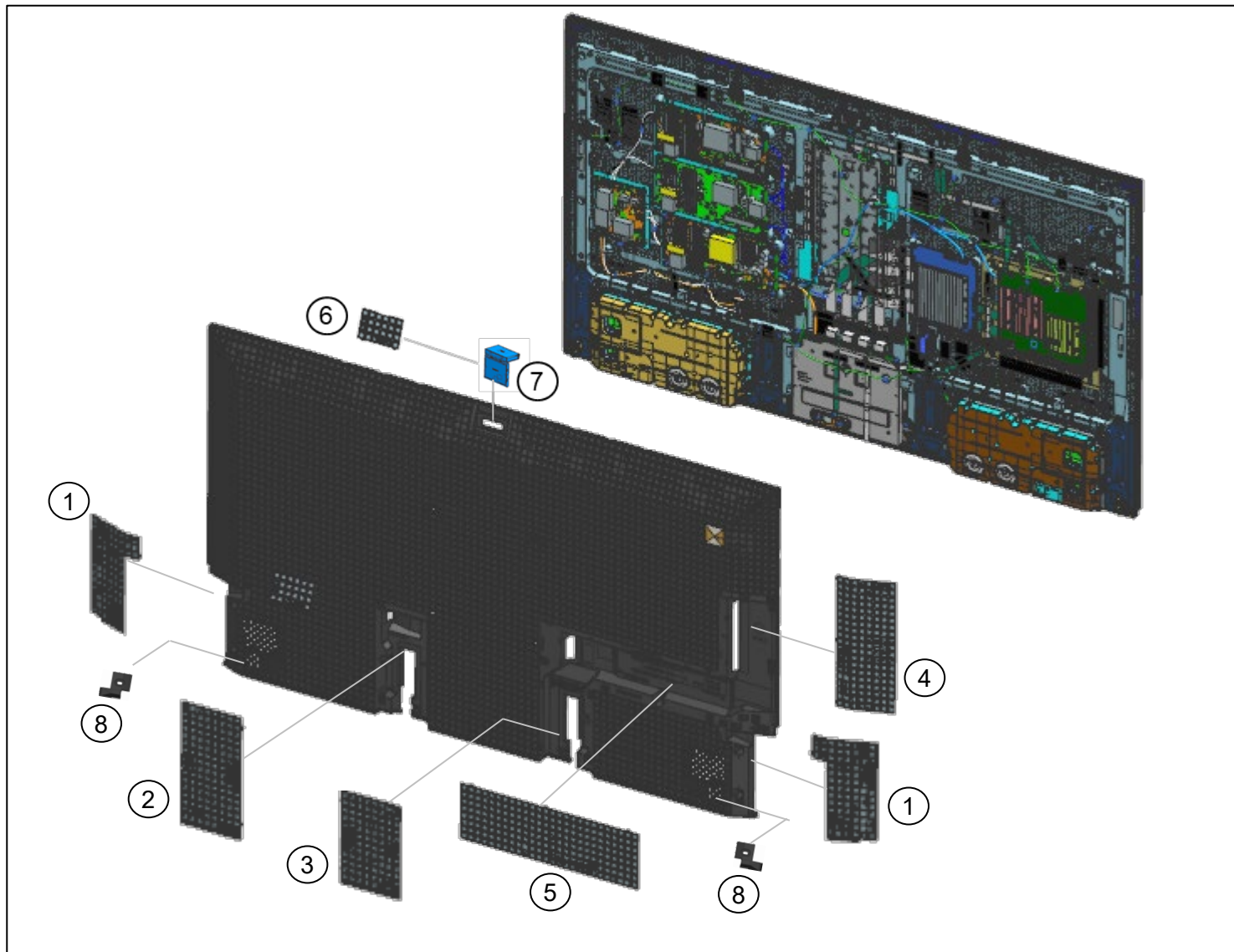



SECTION 1: XR-75Z9K

1-4. EXPLODED VIEW AND PART LIST

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



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



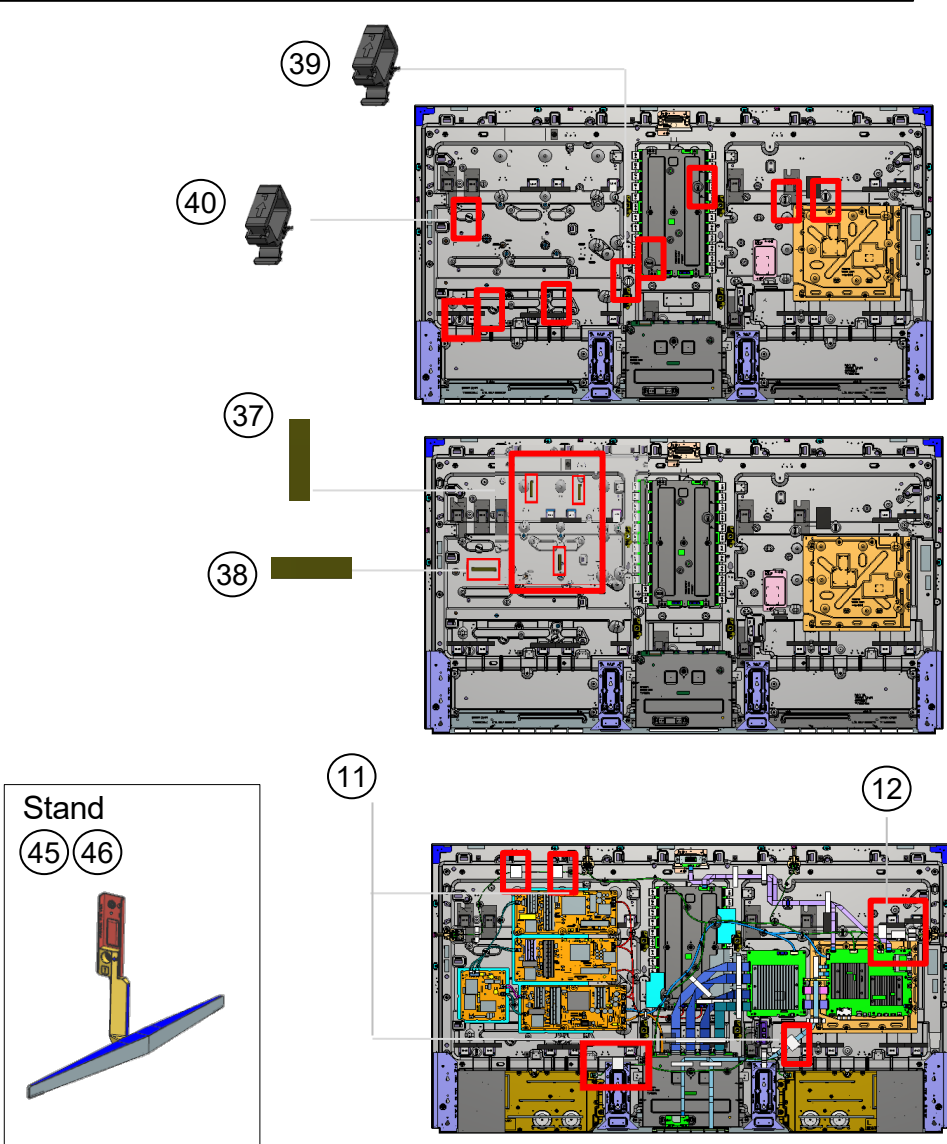
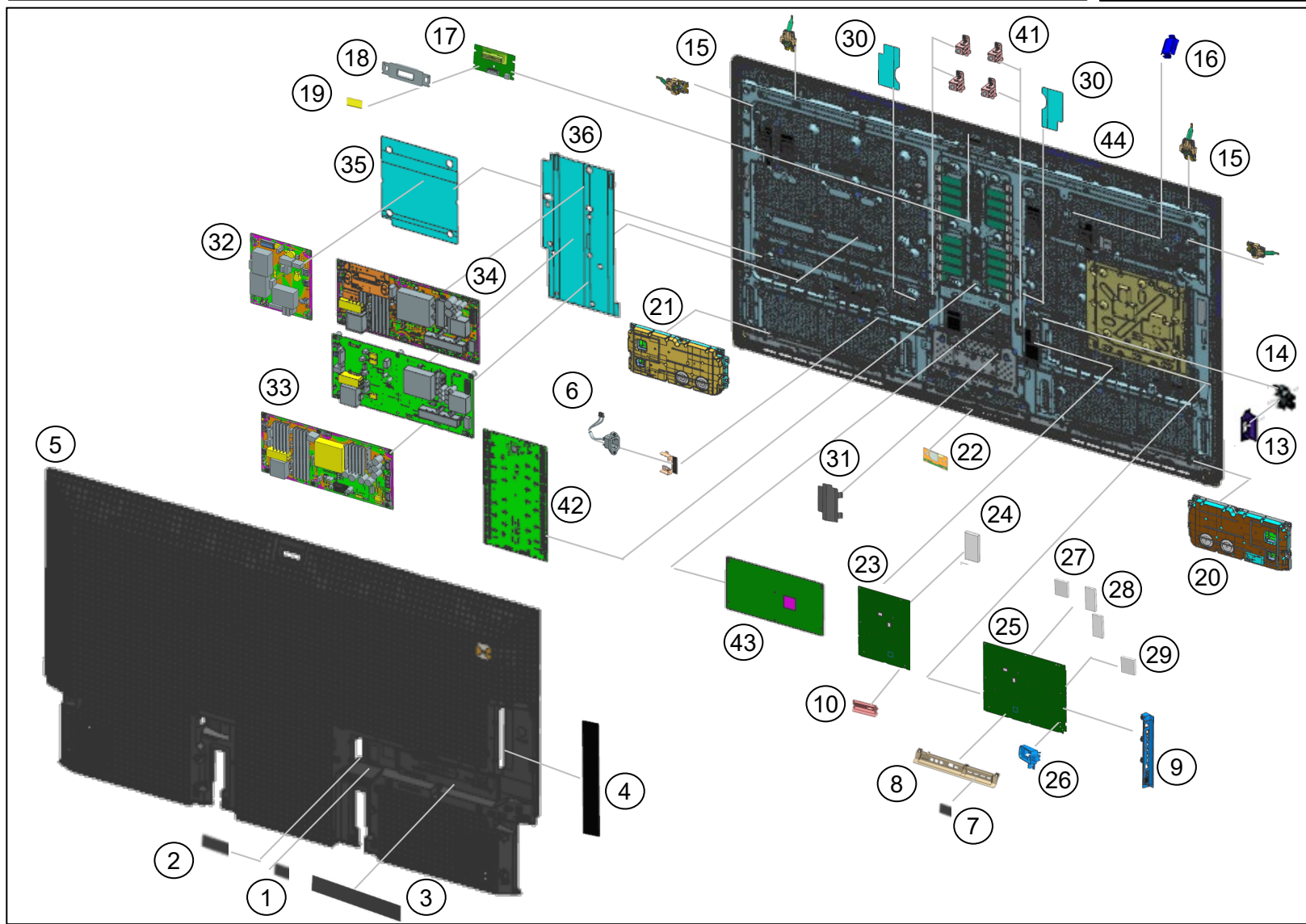
REF. NO	PART NO.	DESCRIPTION	UCM
1	5-035-424-01	STAND COVER LR (3L WLF) A	•
2	5-035-423-01	STAND COVER CR (3L WLF) A	•
3	5-035-422-01	STAND COVER CL (3L WLF) A	•
4	5-035-421-01	COVER TML V (3L WLF) A	•
5	5-042-800-01	COVER TML H (3L WLF) A	•
6	5-035-426-01	COVER CM (WLF) A	•
 7	1-013-457-11	CAMERA MODULE (MAGNET)	•
8	5-035-499-01	BOTTOM CORNER LR (3L WLF) A	•

SECTION 1: XR-75Z9K

1-4. EXPLODED VIEW AND PART LIST

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-  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.
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- ✂ The reference number beside the part indicates the disassembly sequence.
- ✂ Remove screws before disassembly. Unplug connectors before disassembly








SECTION 1: XR-75Z9K

1-4. EXPLODED VIEW AND PART LIST

SET PART LIST

REF. NO	PART NO.	DESCRIPTION	UCM
1	5-012-813-01	LABEL, HDMI (LMN)	•
2	5-000-203-01	LABEL, CENTER SP (OCD)	•
3	5-036-143-01	LABEL, UNDER TERMINAL (WLF)	•
4	5-036-145-01	LABEL, SIDE TERMINAL (BM5S22)	•
 5	5-033-698-01	REAR COVER (3L WLF) A	•
 6	1-005-644-11	C18 INLET ASSY 500	•
7	4-747-311-01	LABEL, COVER HDMI	•
8	4-724-146-14	BRACKET, UNDER (BM2A)	•
9	5-036-017-22	BRACKET, SIDE(SGT)	•
10	4-743-381-01	BRACKET, ONT (OCD)	•
11	4-531-003-01	CUSHION 3525A	•
12	5-041-324-01	CUSHION 2525A	•
13	4-743-315-12	BRACKET, CNT SP (OCD)	•
14	1-854-260-11	SCREW TERMINAL	•
15	1-013-714-11	ACTUATOR, FY22 PZ2X2X9	•
16	4-745-335-01	FLAT CLAMP(FFC)	•
17	1-013-459-11	MAGNET CONNECTOR MODULE (WW)	•
18	5-032-685-02	BKT, CM (DER)	•
19	5-035-603-01	GASKET, CM (DER)	•
20	1-010-044-31	SP-BOX ASSY, FY21 D42-SLIT(L)	•
21	1-010-044-41	SP-BOX ASSY, FY21 D42-SLIT(R)	•
 22	1-005-419-32	WLAN/BT MODULE(11AC)FXC	•
 23	A-5028-569-A	COMPL SVC ONT2	•
24	5-023-828-01	SHEET, THERMAL (ONT2)	•
 25	A-5041-905-A	COMPL SVC BM5S22_FW_UCMX	•
26	5-023-281-02	KEY, TOP(SGT)	•

REF. NO	PART NO.	DESCRIPTION	UCM
27	5-011-960-01	SHEET, THERMAL(LMN TCON)	•
28	5-023-557-01	SHEET THERMAL(BM5S21 DDR)	•
29	4-699-975-02	SHEET, THERMAL(5567H)	•
30	5-035-070-01	SHT, INSULATION LD(WLF)	•
31	5-037-137-01	SHT, AL LD (3L WLF)	•
 32	1-013-593-11	GF1 - STATIC CONVERTER(TV)	•
 33	1-013-594-11	GS1 - STATIC CONVERTER(TV)	•
 34	1-013-595-11	GP1B - STATIC CONVERTER(TV)	•
 35	5-032-570-01	SHT, INSULATION (WLF) S	•
 36	5-032-569-01	SHT, INSULATION (WLF) L	•
37	5-039-413-01	CUSHION, SHT INS T5 (WLF)	•
38	5-039-414-01	CUSHION, SHT INS T10 (WLF)	•
39	2-650-770-51	SLIDE, CLAMP - WHITE	•
40	2-650-770-31	SLIDE, CLAMP - BLACK	•
41	*5-032-572-01	BRACKET, VESA (WLF)	•
42	A-5041-951-A	22LD840A1 COMPL	•
43	1-013-342-11	MOUNTED PWB E-T-CON (75)	•
 44	A-5049-282-A	P-MOD(HDCO075MDS02)(SVC)	•
45	5-034-897-01	STAND L(3L WLF) A	•
46	5-034-898-01	STAND R(3L WLF) A	•

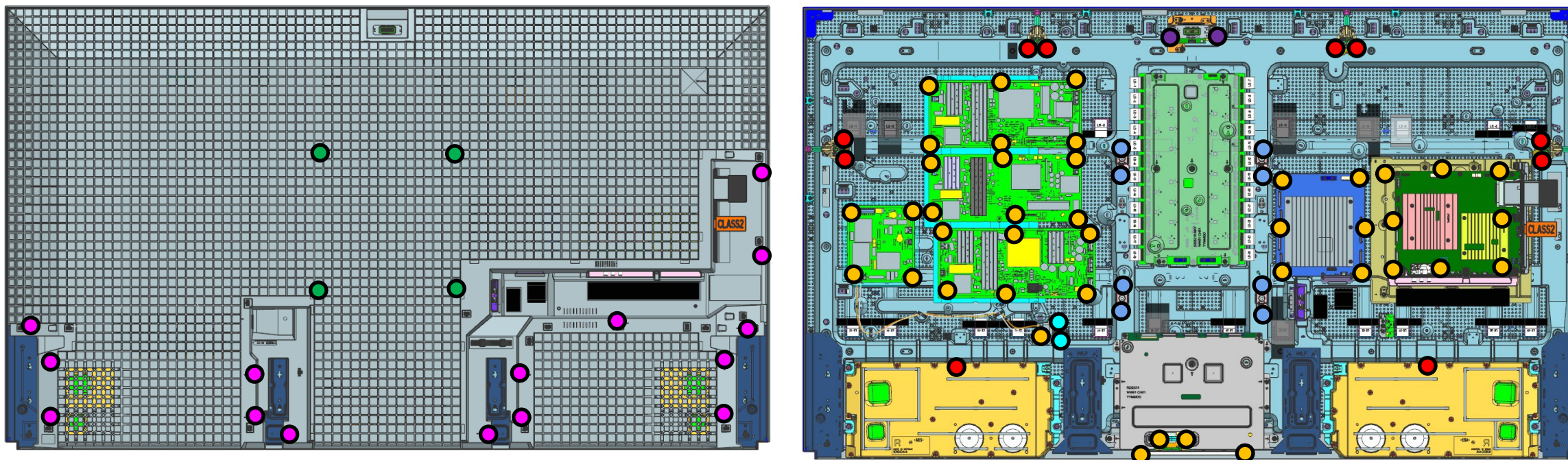
Notes : When replacing P-MOD, please also replace the following parts at the same time.

- | | |
|-----------------------------|--------------------------------|
| 11) CUSHION 3525A | 35) SHT, INSULATION (WLF) S |
| 12) CUSHION 2525A | 36) SHT, INSULATION (WLF) L |
| 19) GASKET, CM (DER) | 37) CUSHION, SHT INS T5 (WLF) |
| 30) SHT, INSULATION LD(WLF) | 38) CUSHION, SHT INS T10 (WLF) |
| 31) SHT, AL LD (3L WLF) | |

SECTION 1: XR-75Z9K

1-4. EXPLODED VIEW AND PART LIST

SCREW

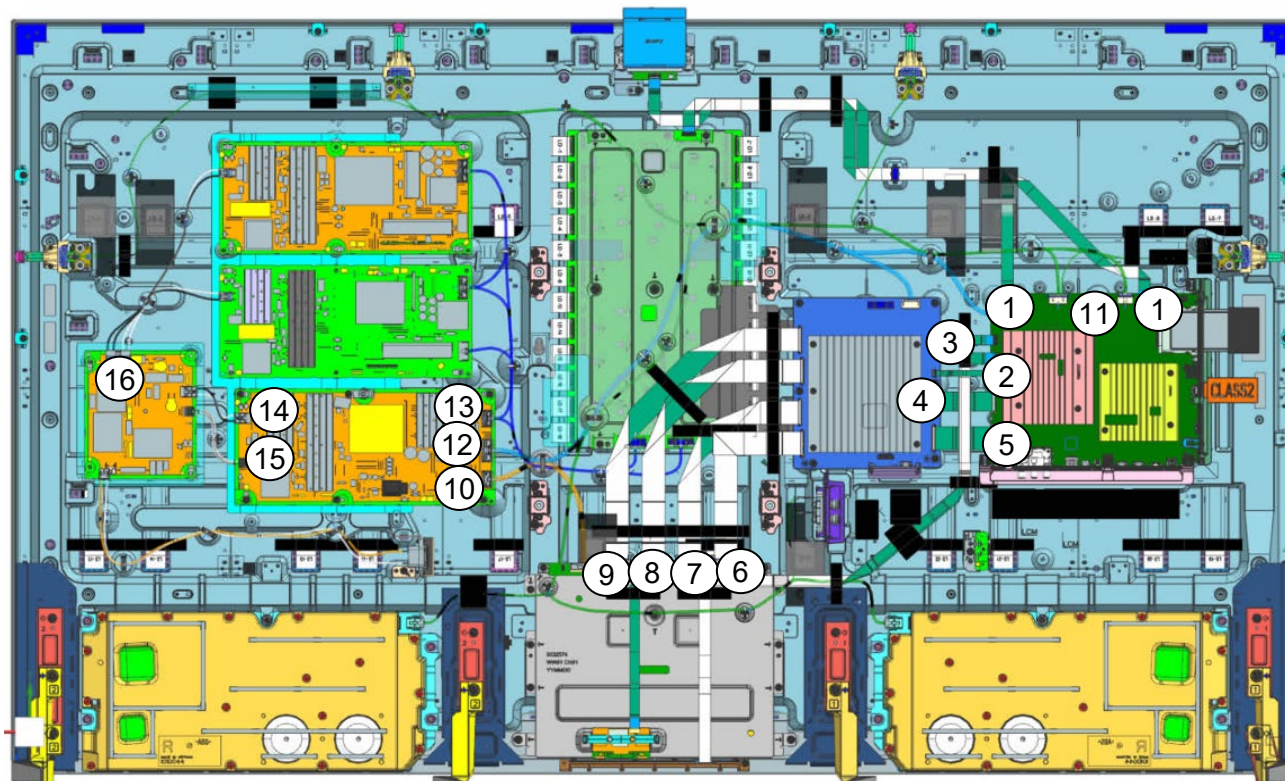


Remarks	P/N	Description	Qty	Torque (N.m)
●	4-268-126-02	SCREW, ORNAMENTAL M6X12	4	1.2 ± 0.1
●	4-579-926-01	SCREW M3X3.0 STEP	15	0.65 ± 0.05
●	4-256-393-12	SCREW, +PSW M3X6 W12	10	0.4 ± 0.05
●	2-580-600-01	SCREW, +PSW M4X8	8	0.65 ± 0.05
●	4-472-518-11	SCREW, +PSW M3x6	41	0.4 ± 0.05
●	5-034-828-01	SCREW, STEP CM	2	0.3 ± 0.05
●	2-580-592-01	SCREW, +PSW M3X8	2	0.4 ± 0.05

SECTION 1: XR-75Z9K


1-4. EXPLODED VIEW AND PART LIST

CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-014-865-11	FLEXIBLE FLAT CABLE 25P(C)/30P	CN3804(B)-CAMERA(1)-CN6200(B)-CN1002(LD)(1)
2	1-010-653-11	FLEXIBLE FLAT CABLE 14P	CN6802(B)-CN1200(ONT)(1)
3	1-014-864-11	FLEXIBLE FLAT CABLE 20P/25P	CN103(H)-CN1200(B)-CN3803(B)-BT(1)
4	1-010-661-11	FLEXIBLE FLAT CABLE 41P(B-ONT)	CN6801(B)-CN2201(ONT)(1)
5	1-010-662-11	FLEXIBLE FLAT CABLE 51P(B-ONT)	CN6800(B)-CN2200(ONT)(1)
6	1-014-866-11	FLEXIBLE FLAT CABLE 51P (OT1)	CN2400(ONT2)-J102(TCON)(1)
7	1-014-867-11	FLEXIBLE FLAT CABLE 51P (OT2)	CN2401(ONT2)-J103(TCON)(1)
8	1-014-868-11	FLEXIBLE FLAT CABLE 51P (OT3)	CN2600(ONT2)-J104(TCON)(1)
9	1-014-869-11	FLEXIBLE FLAT CABLE 51P (OT4)	CN2601(ONT2)-J105(TCON)(1)
10	1-014-908-11	CONNECTOR ASSY 20P	CN6402(PSU)-J101(TCON)(1)
11	1-014-911-11	HARNESS ASSY (SP)	CN6604(B)-SP-CN6606(B)(1)
12	1-014-909-11	CONNECTOR ASSY 28P (PWR1)	CN800(B)-CN6401(PSU)-CN401(ONT2)(1)
13	1-014-910-11	CONNECTOR ASSY 28P (PWR2)	CN6403(PSU)-CN6601(GP1)-CN6602(GP1)-CN6601(GP2)-CN1000(LD)-CN1001(LD)(1)
14	1-014-319-11	CONNECTOR ASSY 2P (PWR3GSAC)	CN6102(GS)-CN6101(GF)(1)
15	1-014-320-11	CONNECTOR ASSY 4P (PWR4GSPRI)	CN6103(GS)-CN002(GF)(1)
16	1-014-321-11	CONNECTOR ASSY 8P (PWR5GPAC)	CN6104(GP1)-CN004(GF)-CN6104(GP2)(1)

SECTION 1: XR-75Z9K**1-4. EXPLODED VIEW AND PART LIST****OTHER PARTS**

PART NO.	DESCRIPTION	UCM	REMARKS
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	-
4-462-871-03	BAG, SCREW A (CCT)	•	Including SCREW, +PSW M5X12 (Qty 4)
4-262-708-04	CLAMPER, CABLE	•	-
 1-836-883-12	POWER-SUPPLY CORD	•	-
1-013-685-22	REMOTE COMMANDER (RMF-TX900U)	•	-
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	-
*5-040-301-11	REFERENCE GUIDE	•	-
*5-040-302-11	SETUP GUIDE	•	-

SECTION 2: XR-85Z9K

2-1. DISASSEMBLY AND REMOVAL CAUTION

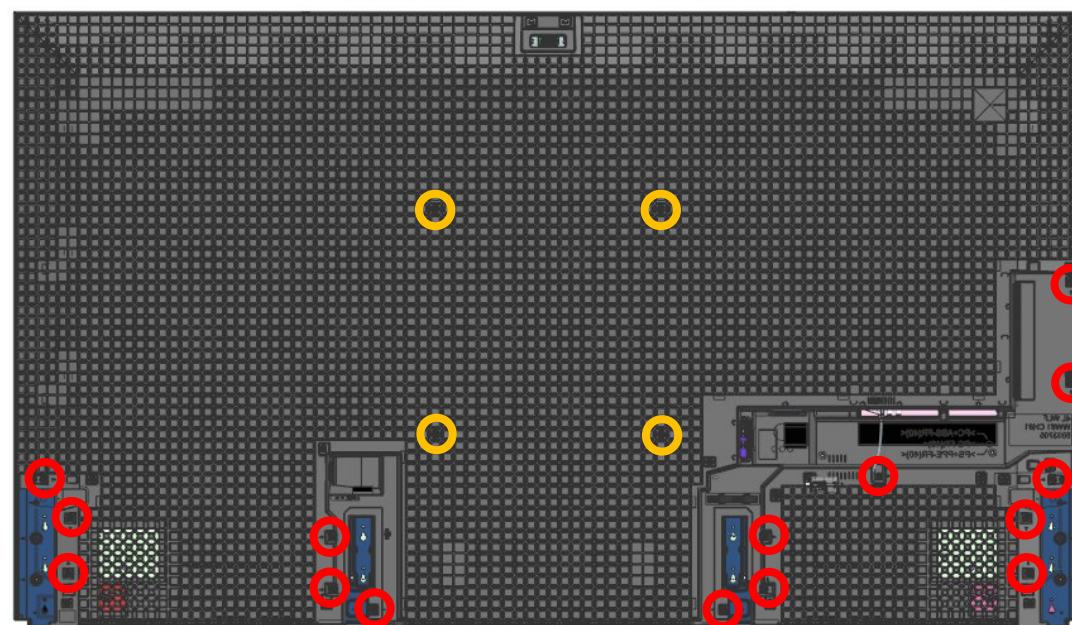
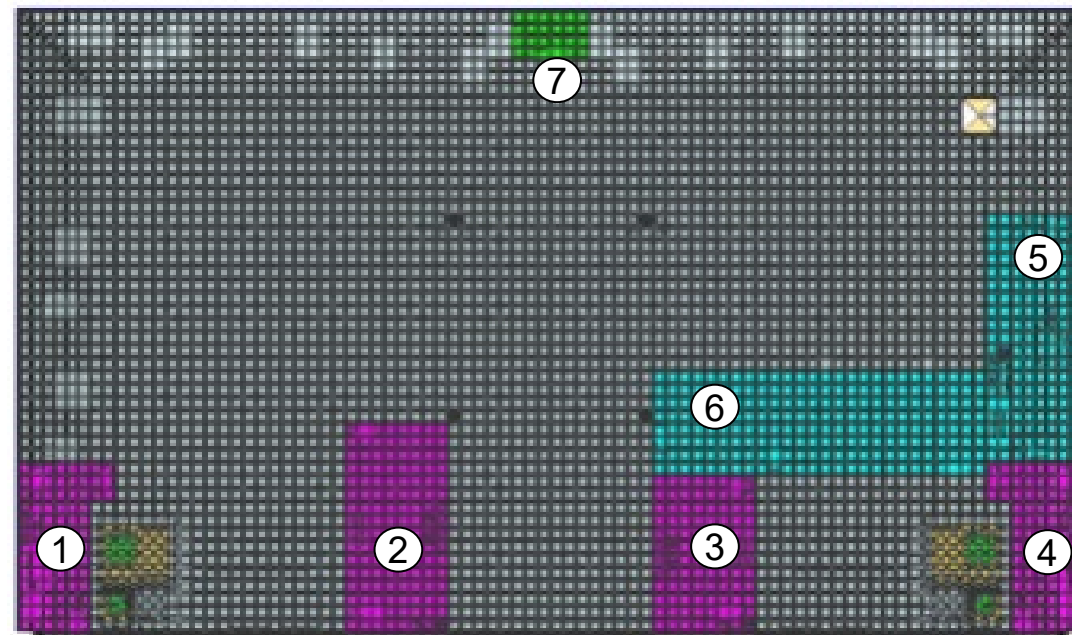
REAR COVER

1. Remove Cover (7 Covers).

- ① STAND COVER R (3L WLF)
- ② STAND COVER CR (3L MKY)
- ③ STAND COVER CL (3L MKY)
- ④ STAND COVER L (3L WLF)
- ⑤ COVER TML V(3L WLF)
- ⑥ COVER TML H (3L MKY)
- ⑦ COVER CM (WLF)

2. Remove screws from the Rear Cover.

- SCREW, ORNAMENTAL M6X12 (4pcs)
- SCREW M3X3.0 STEP (15pcs)

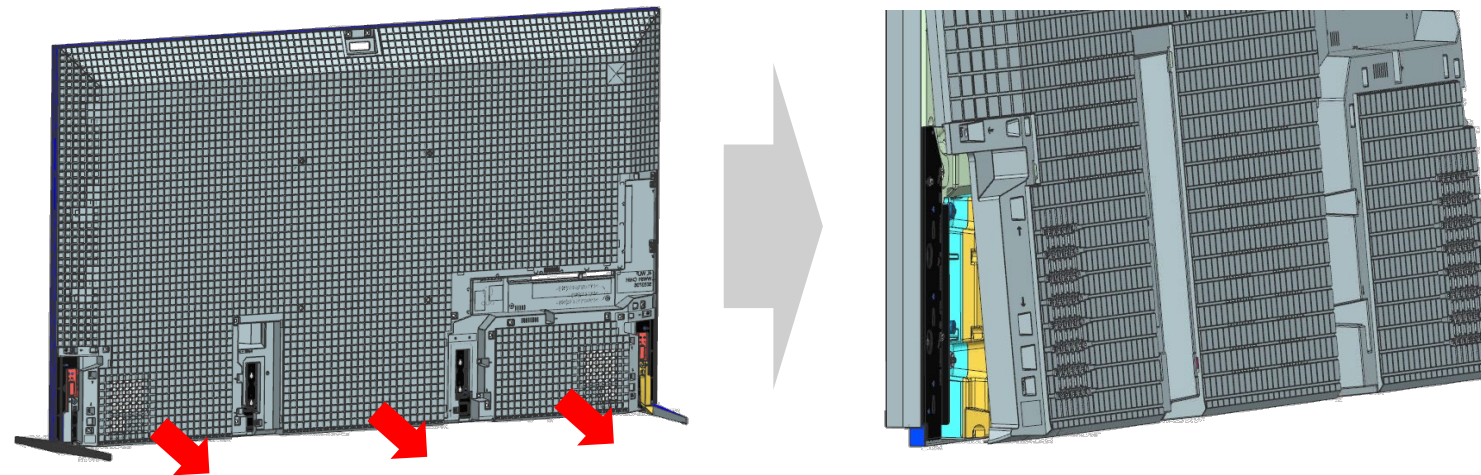


SECTION 2: XR-85Z9K

2-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

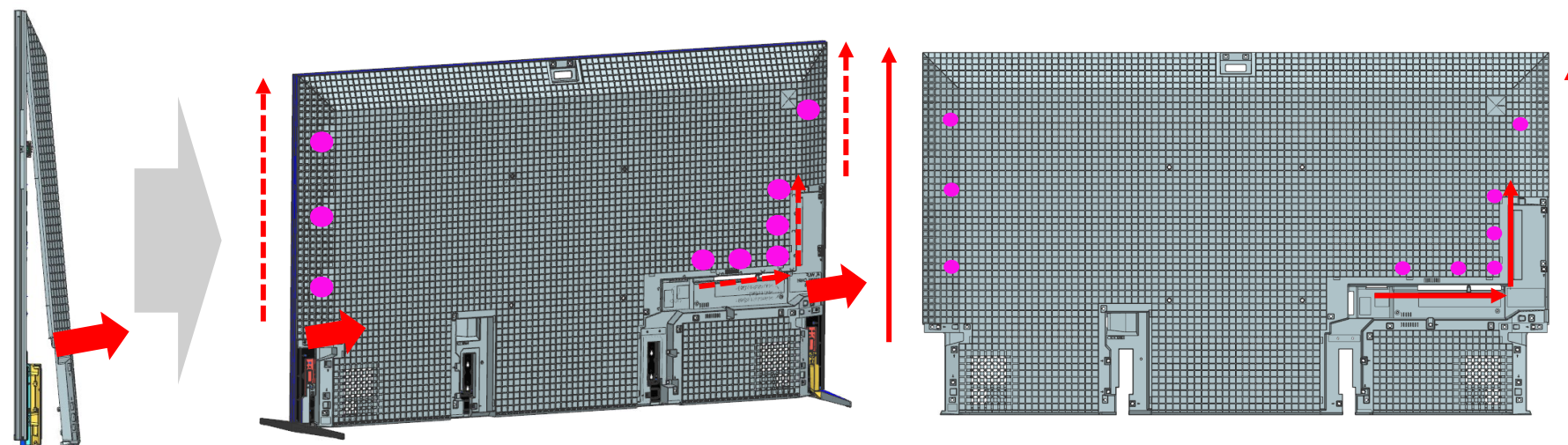
3. Pull Rear Cover bottom backward.



4. Release Rear Cover side hook.

● Hook position

Note:
Pull Rear Cover to back side and
remove it in order from the bottom side



SECTION 2: XR-85Z9K

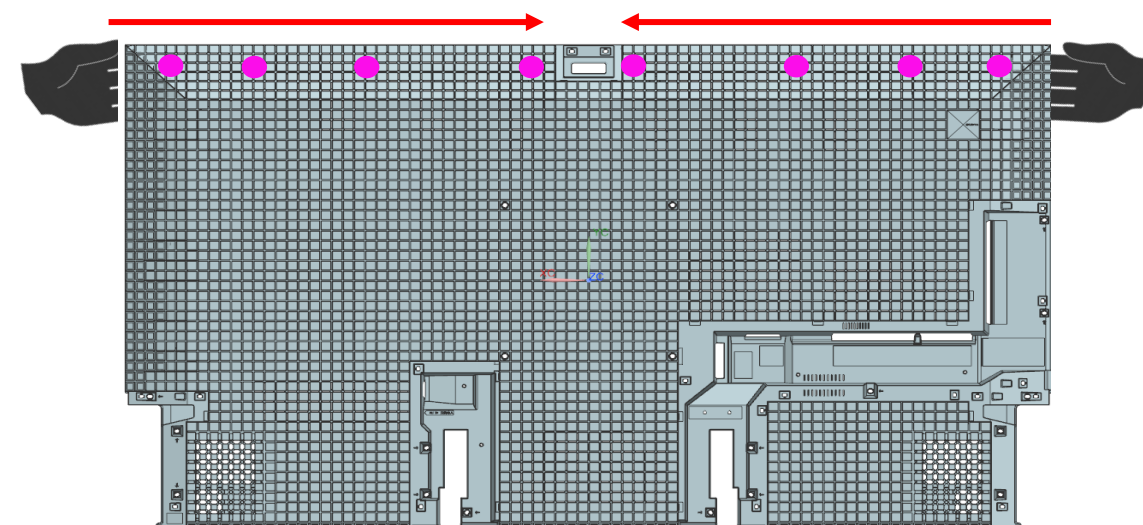
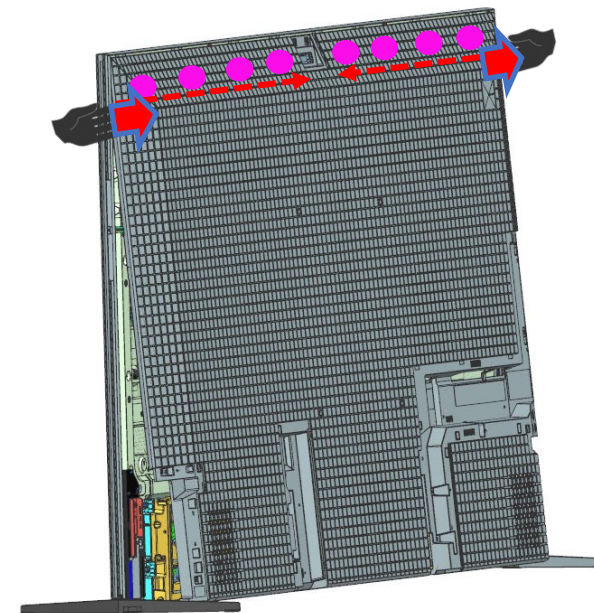
2-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

4. Release the top hooks while lifting the Rear Cover.

● Hook position

Note:
Always wearing gloves while lifting Rear Cover up, pull Rear Cover to back side.

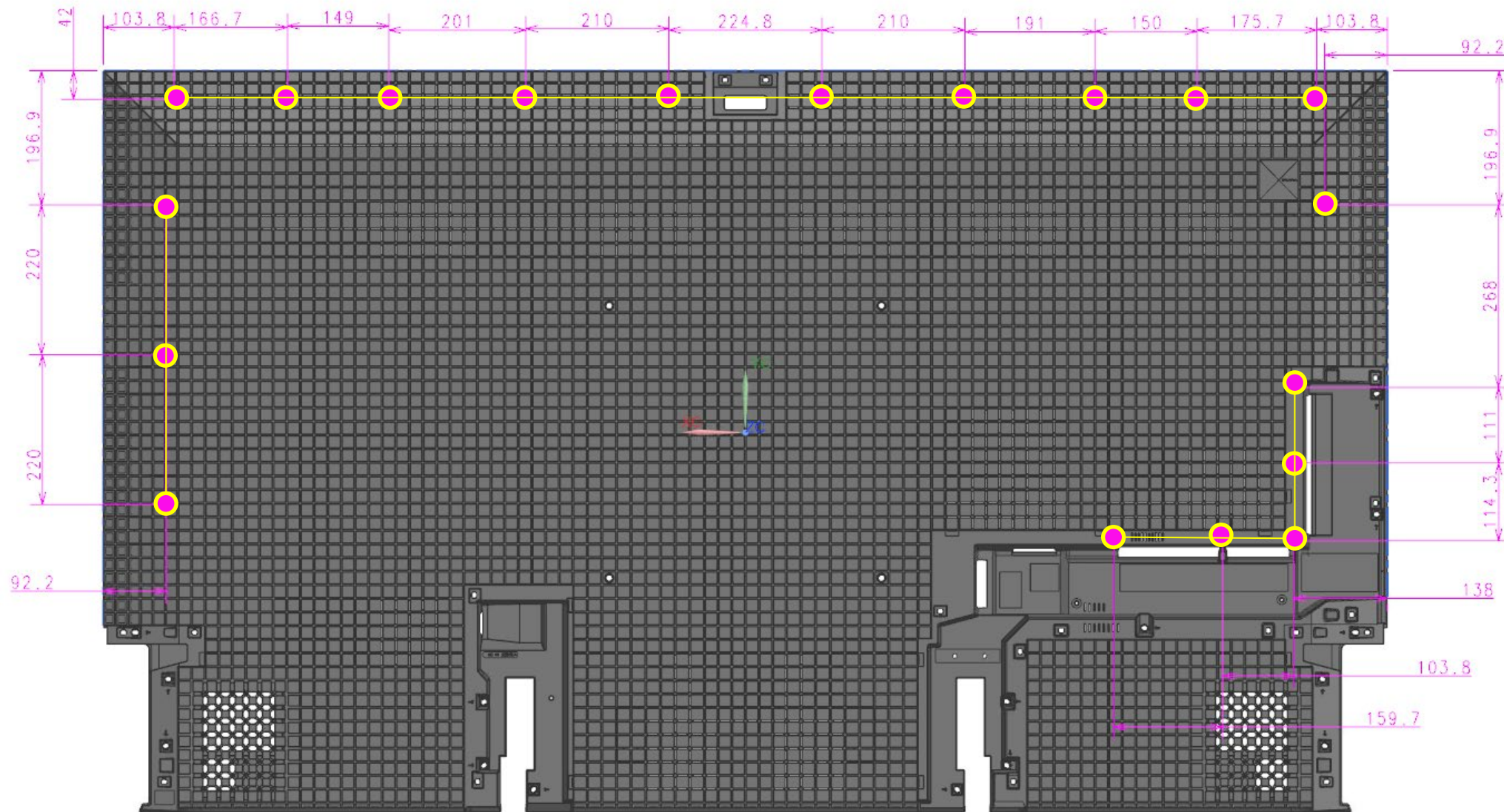


SECTION 2: XR-85Z9K

2-1. DISASSEMBLY AND REMOVAL CAUTION

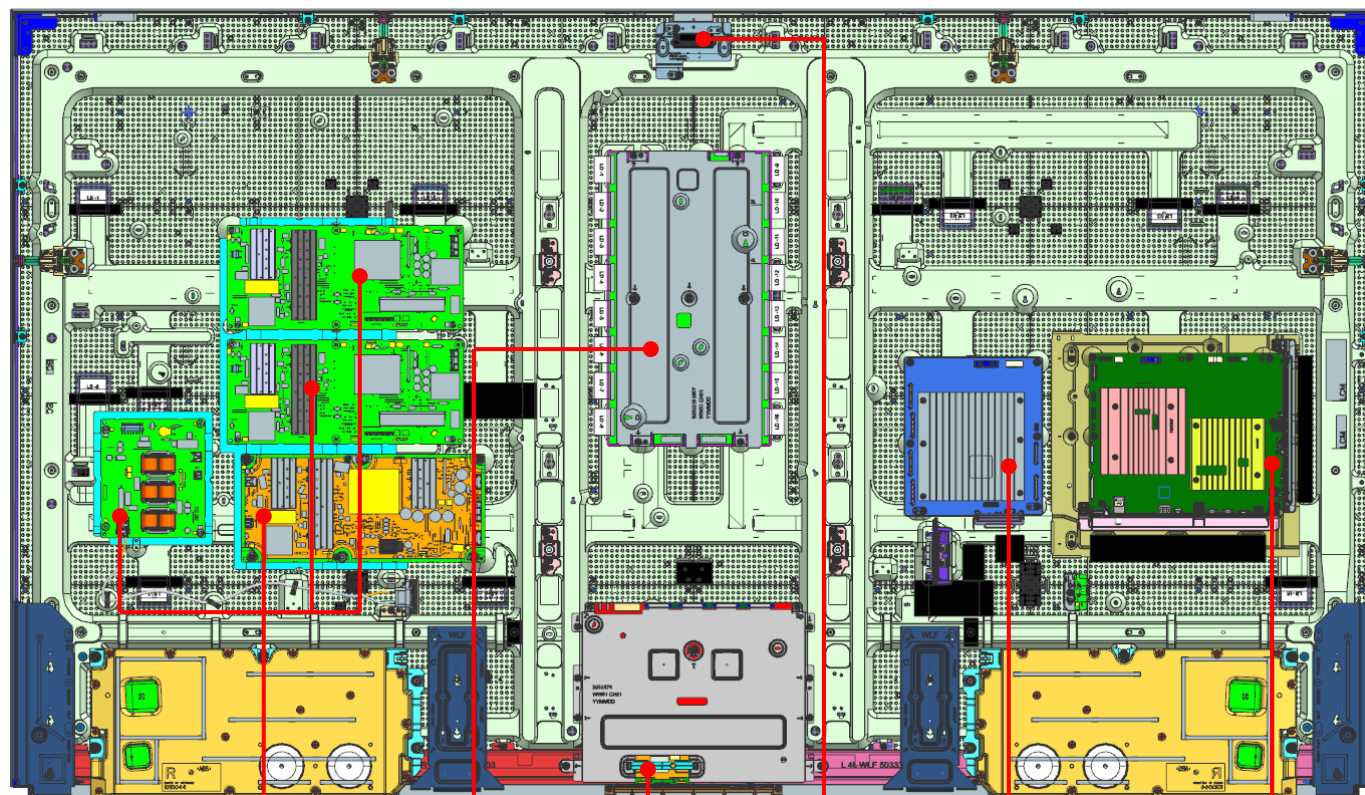
REAR COVER

Hook positioning



SECTION 2: XR-85Z9K

2-2. BOARD LOCATION



POWER BOARD

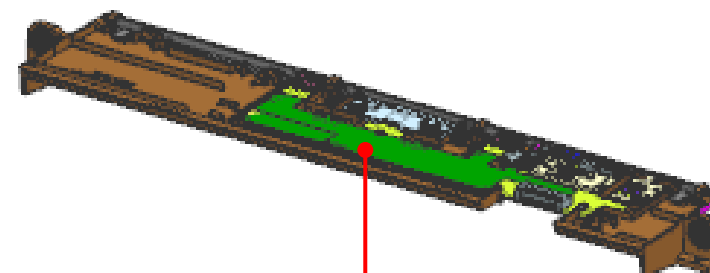
LD BOARD

WI-FI BOARD

CAMERA BOARD

ONT2 BOARD

MAIN BOARD



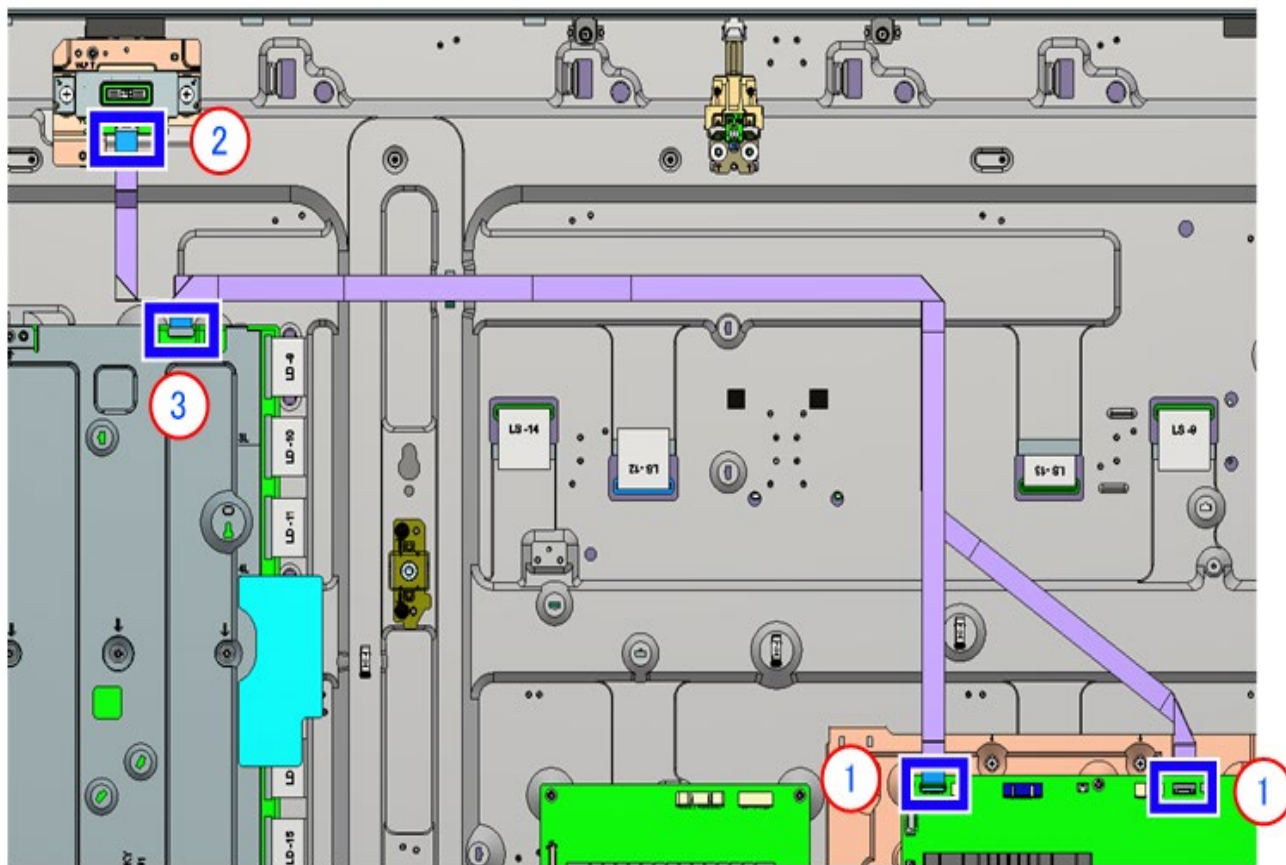
RECEIVER BOARD

SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

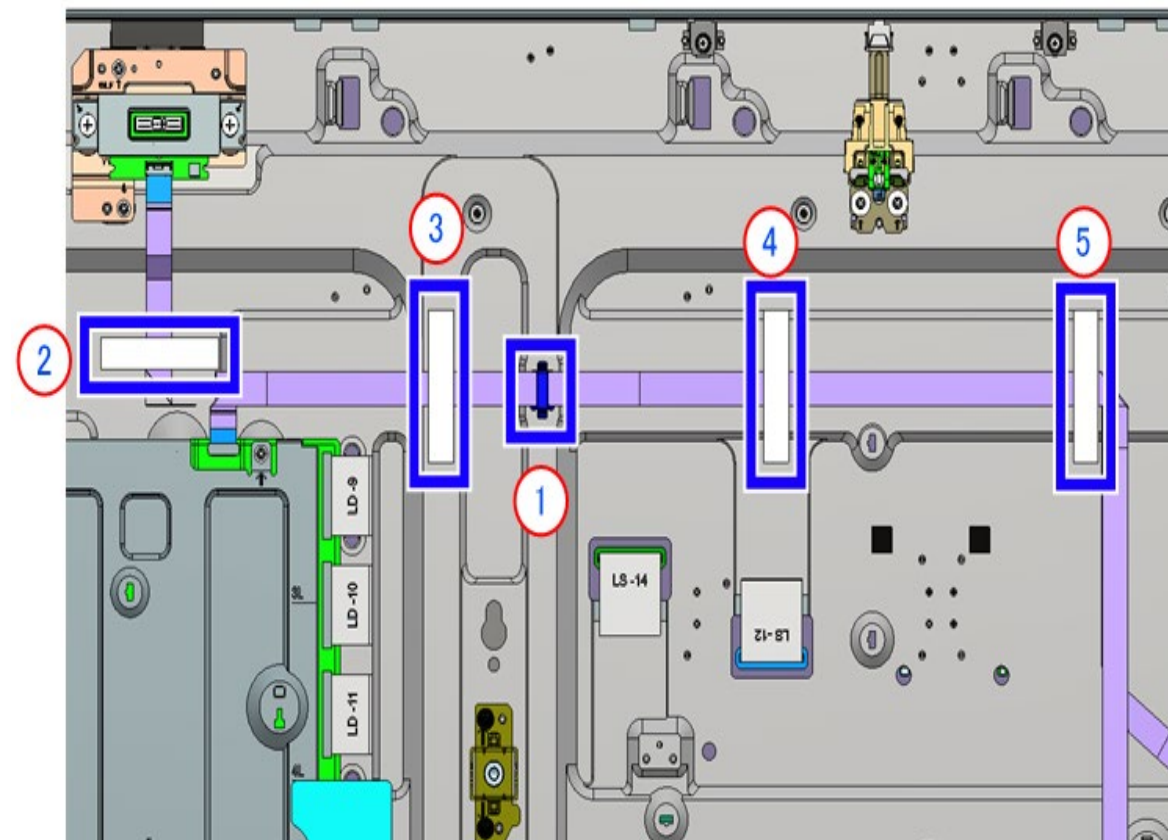
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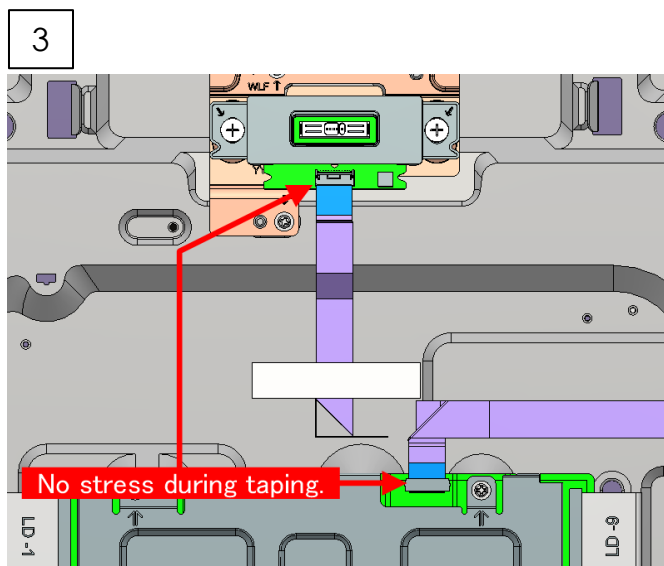
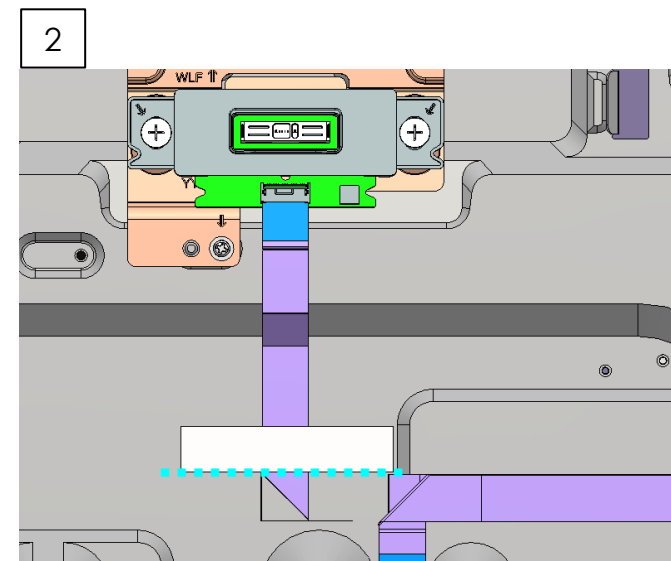
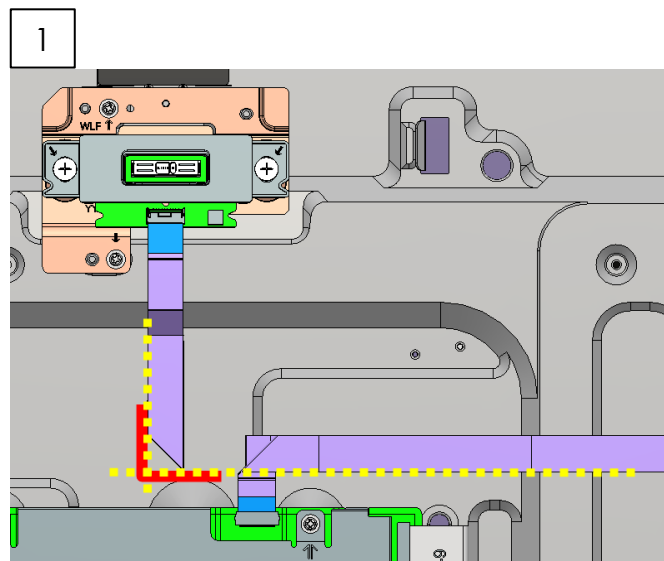
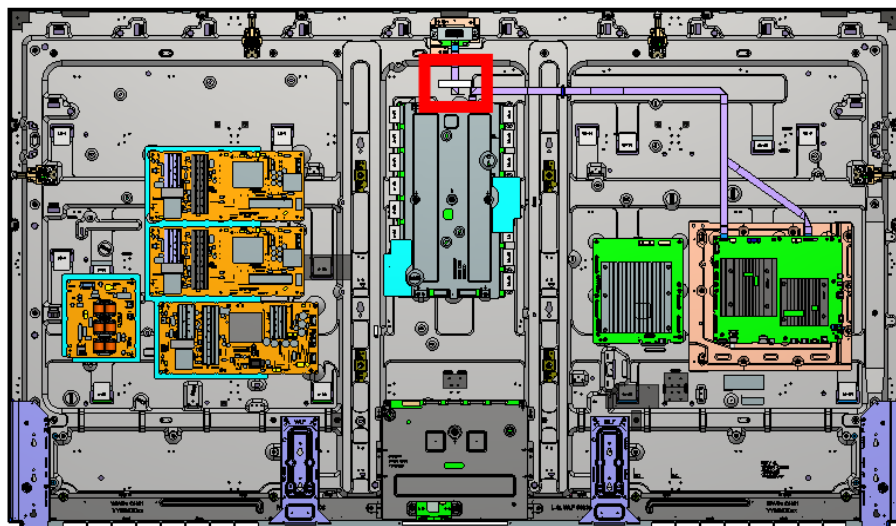
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SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

TAPE

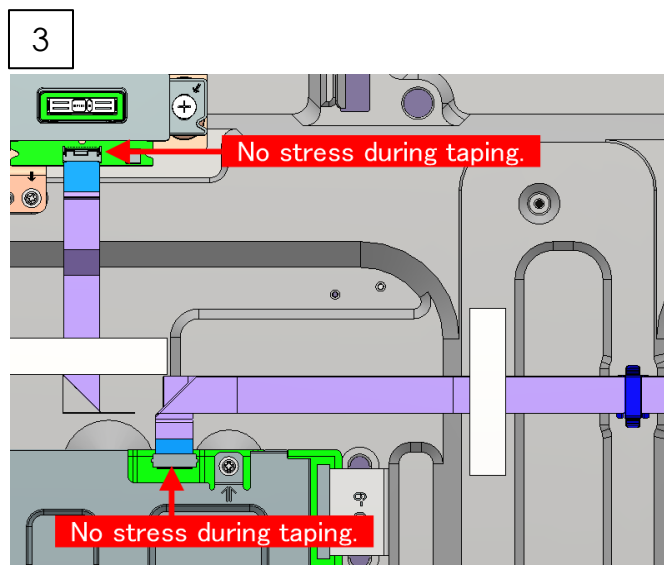
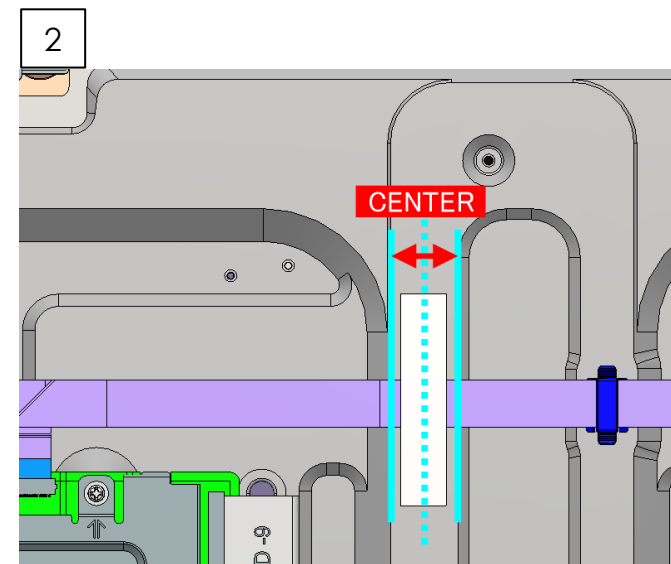
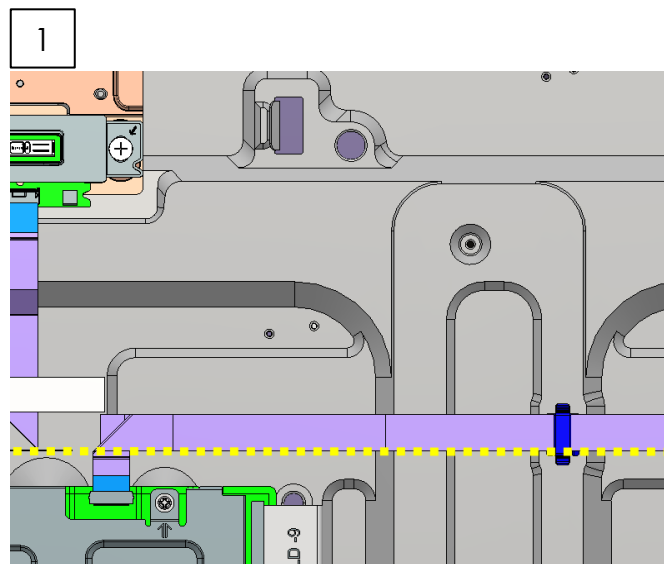
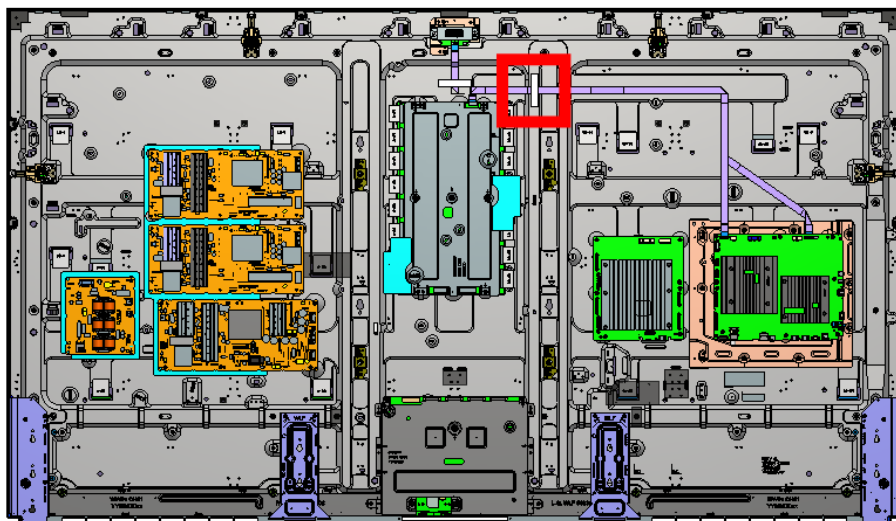


No stress during taping.

SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

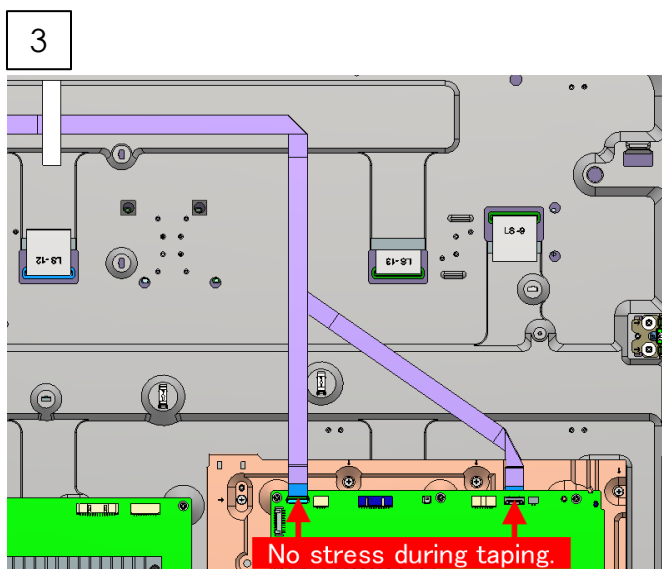
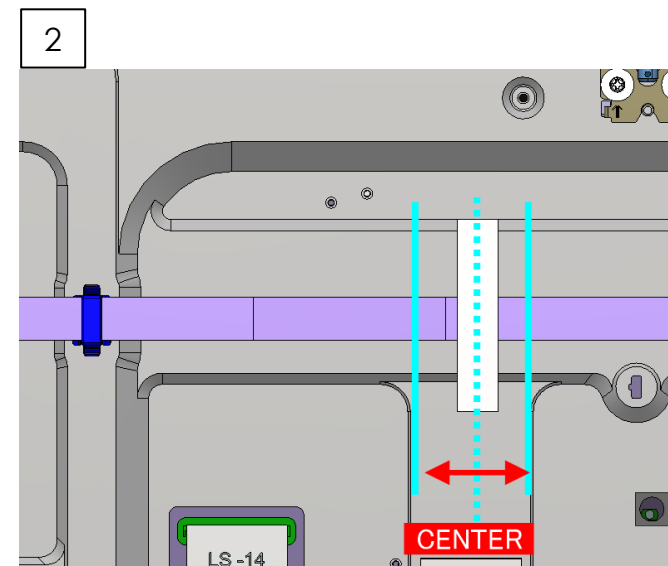
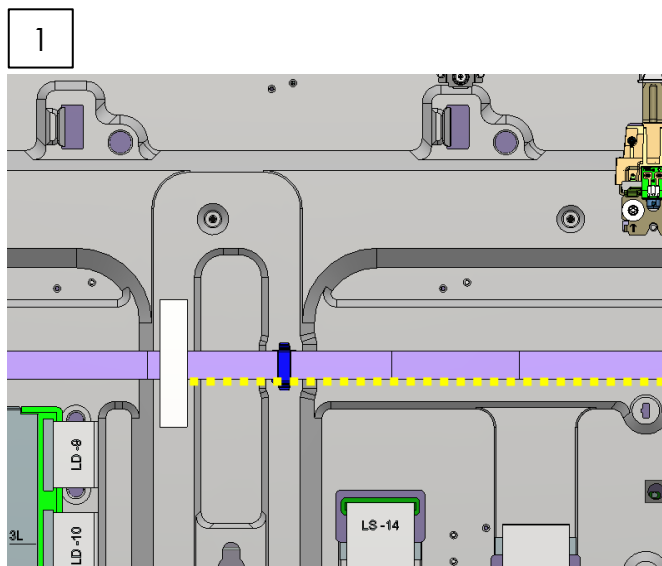
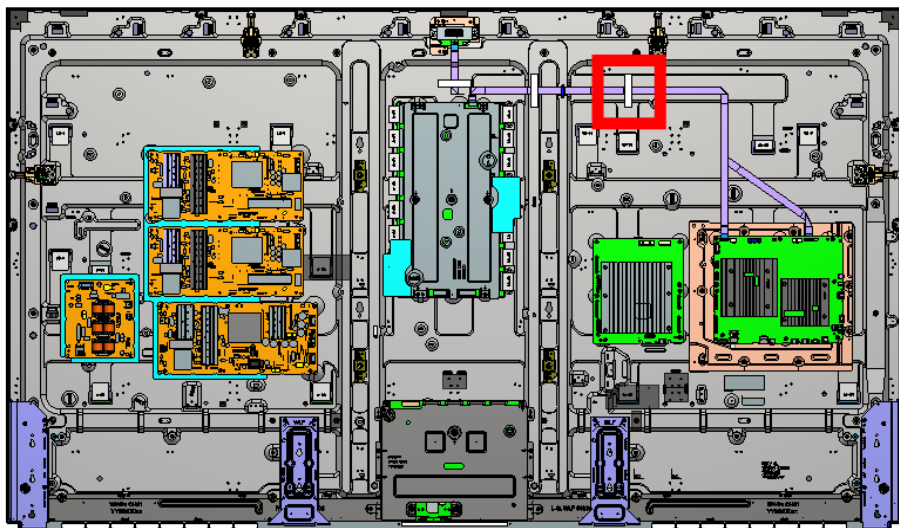
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SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

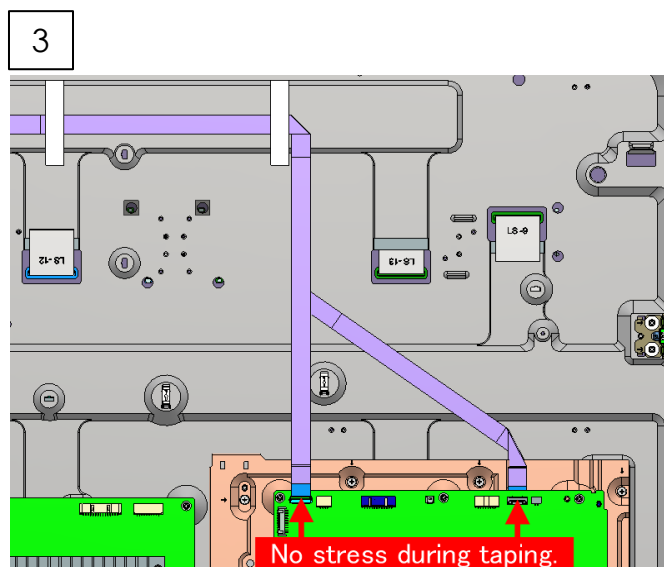
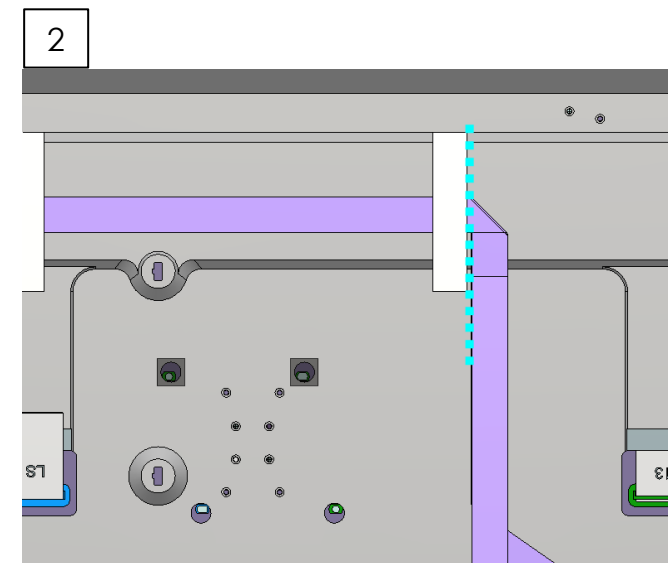
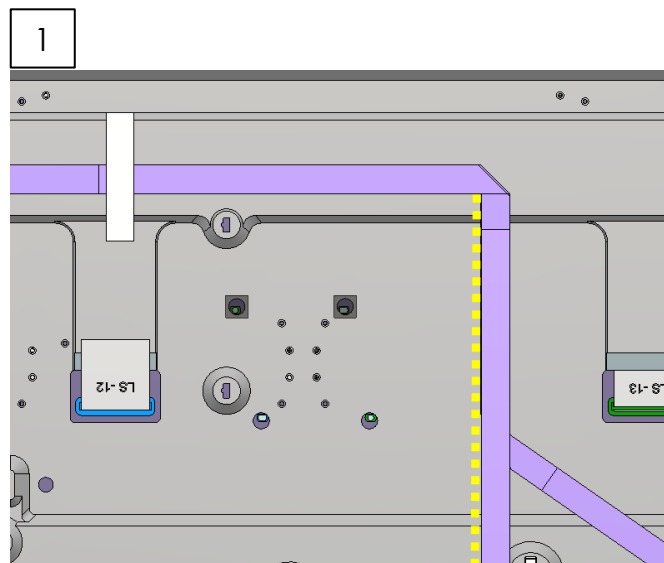
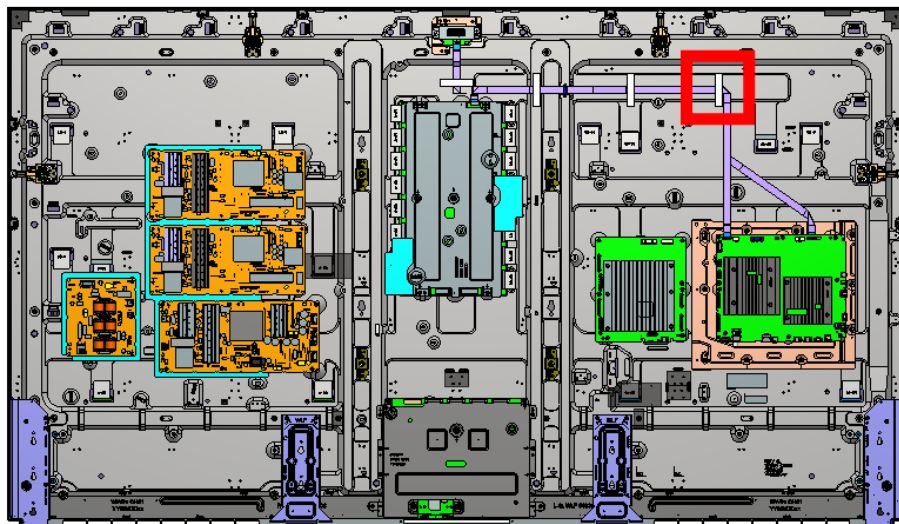
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SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

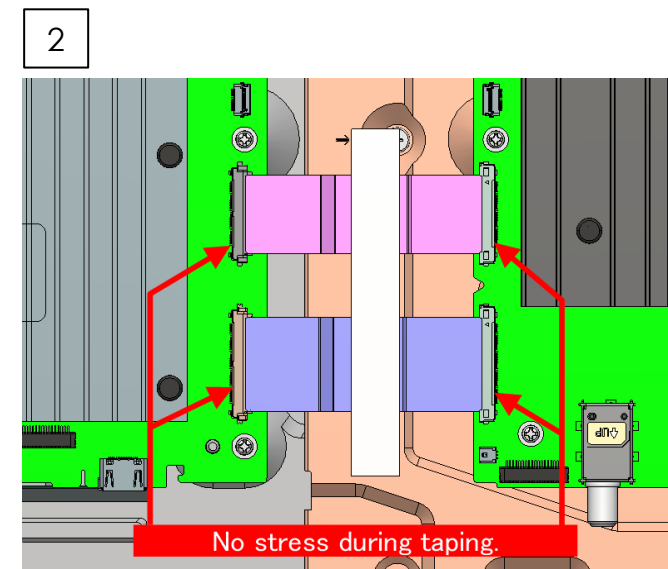
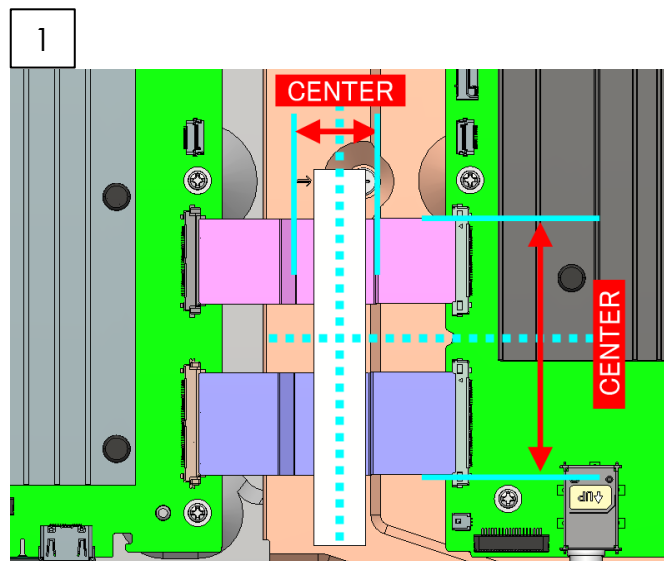
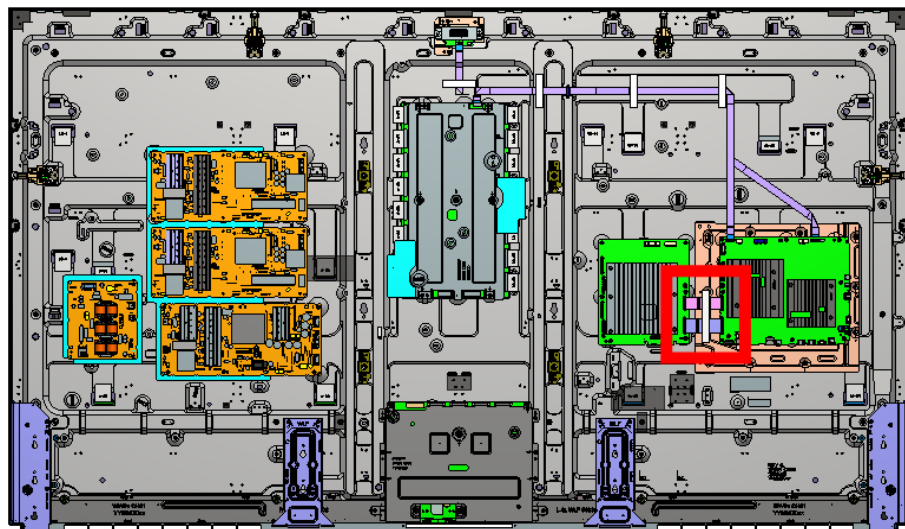
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SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

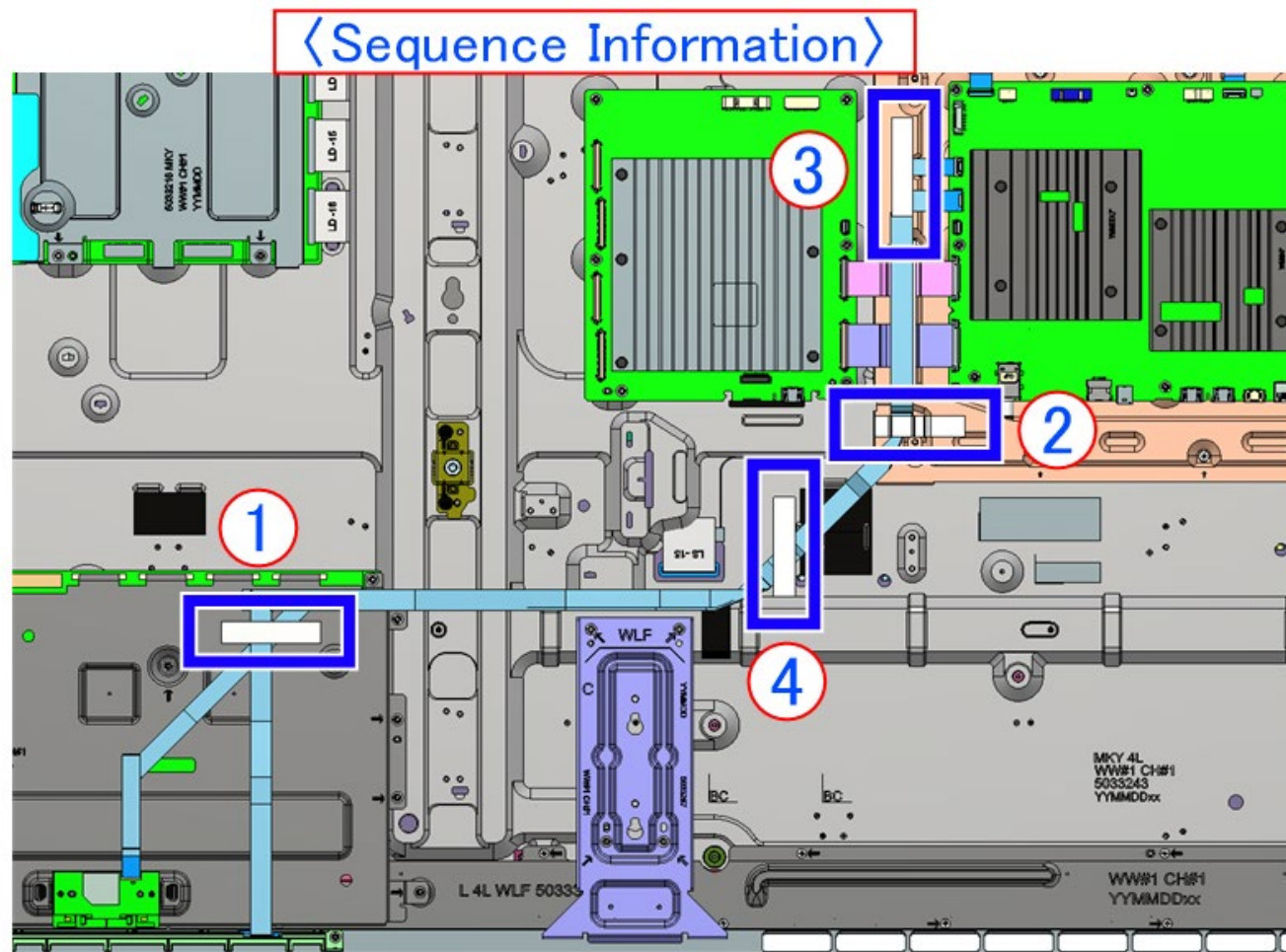
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SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

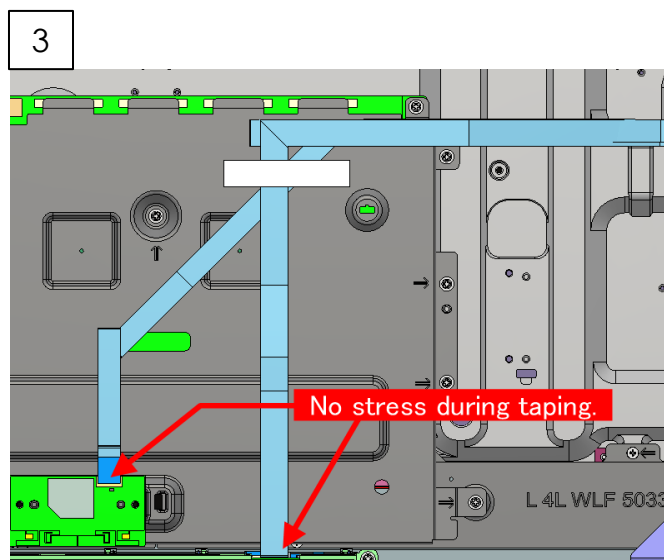
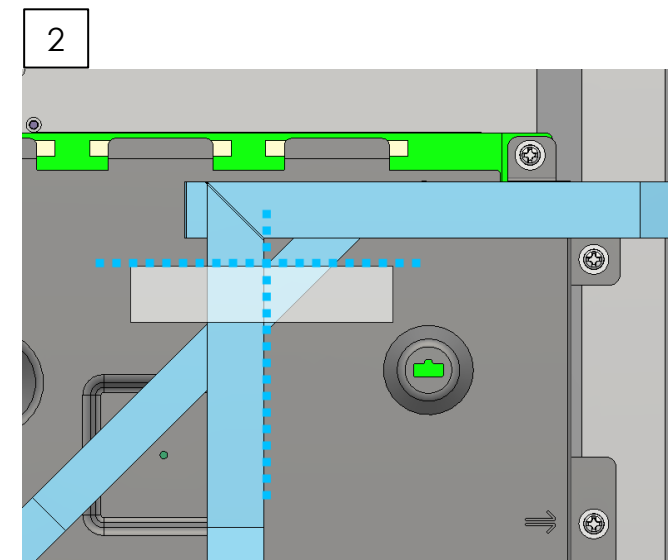
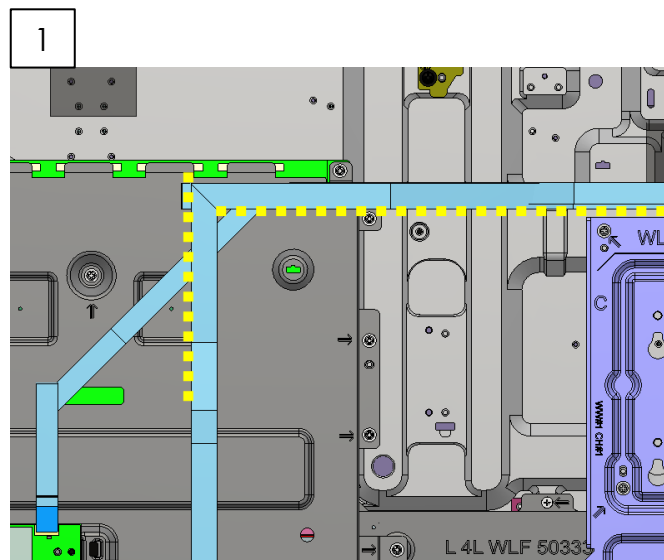
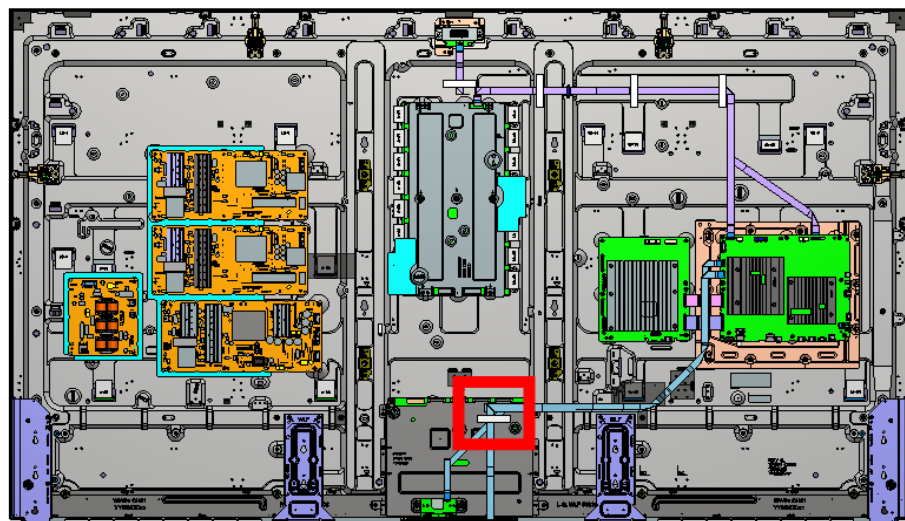
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SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

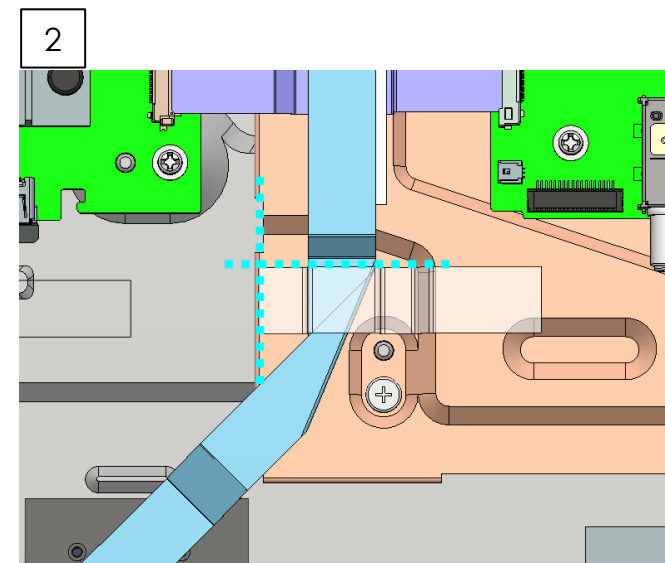
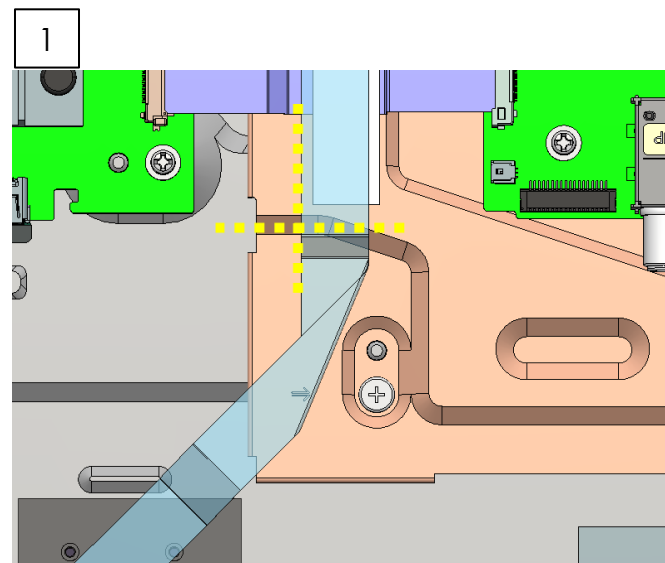
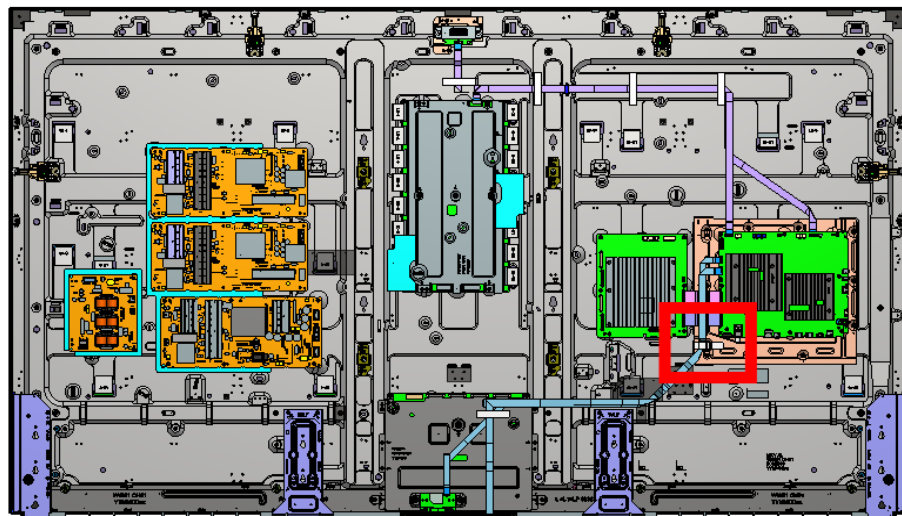
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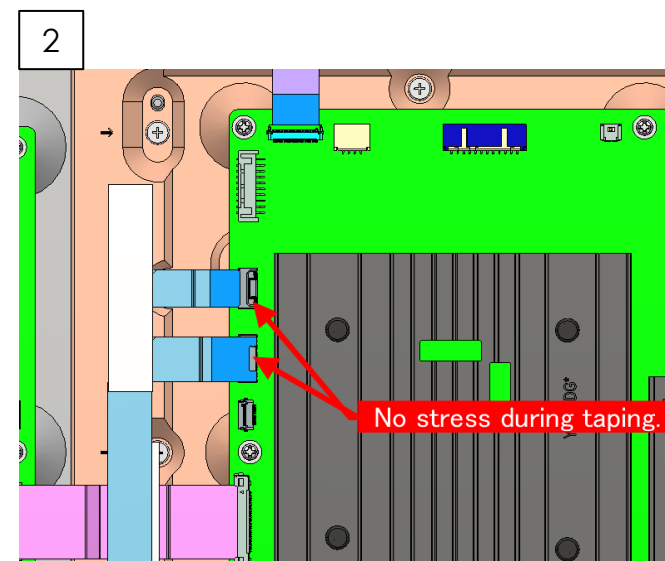
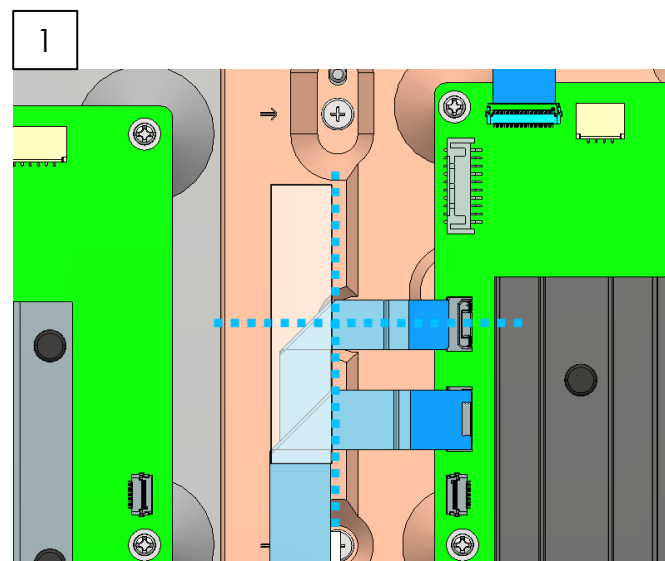
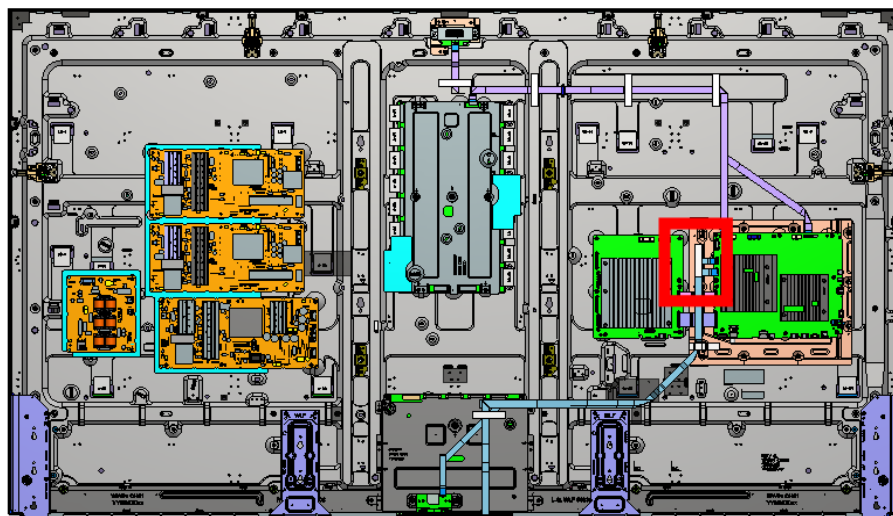
SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

TAPE



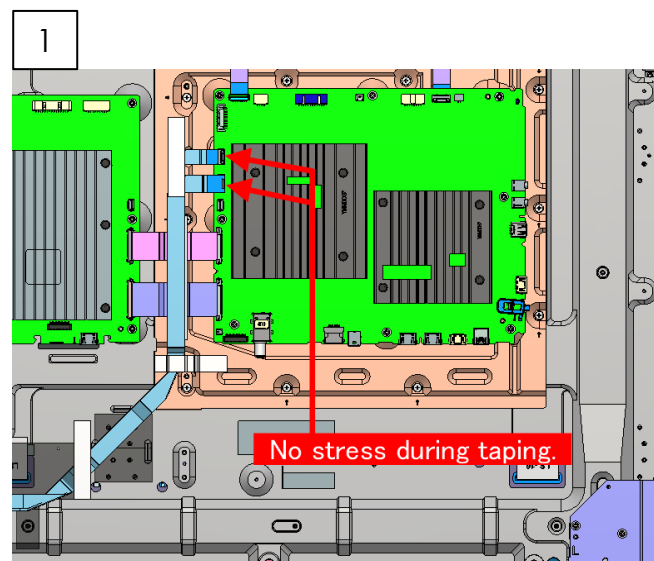
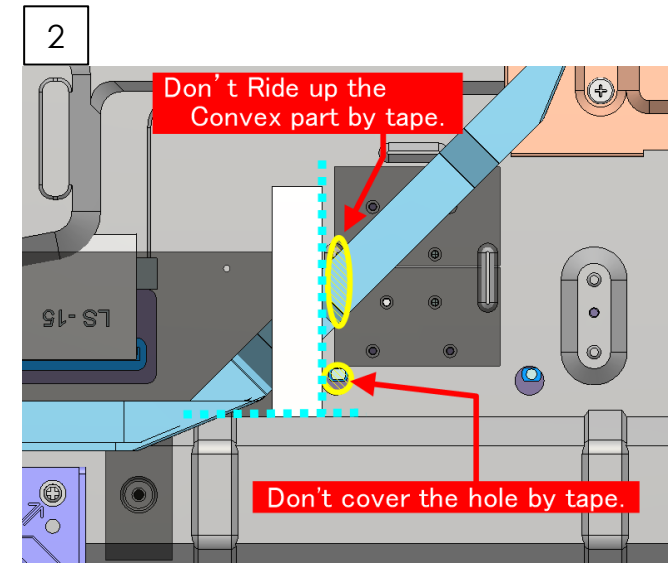
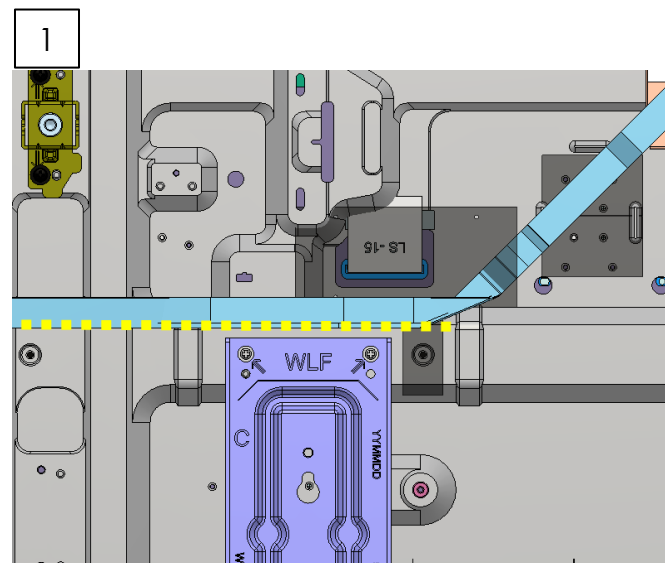
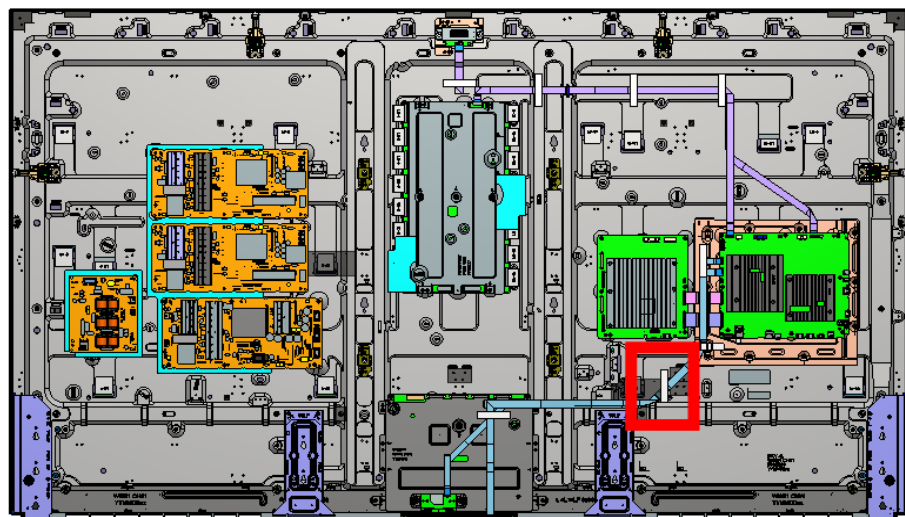
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SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

TAPE

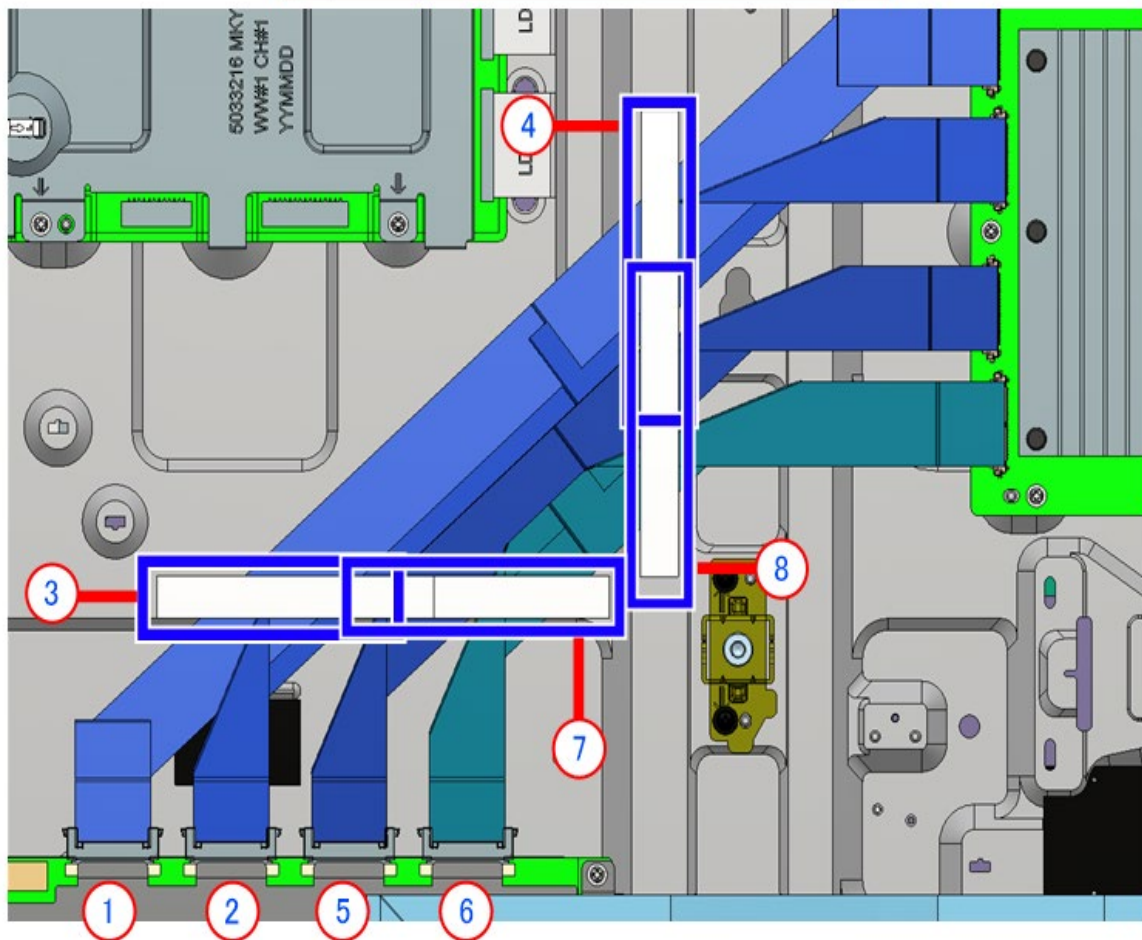


SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

INFORMATION

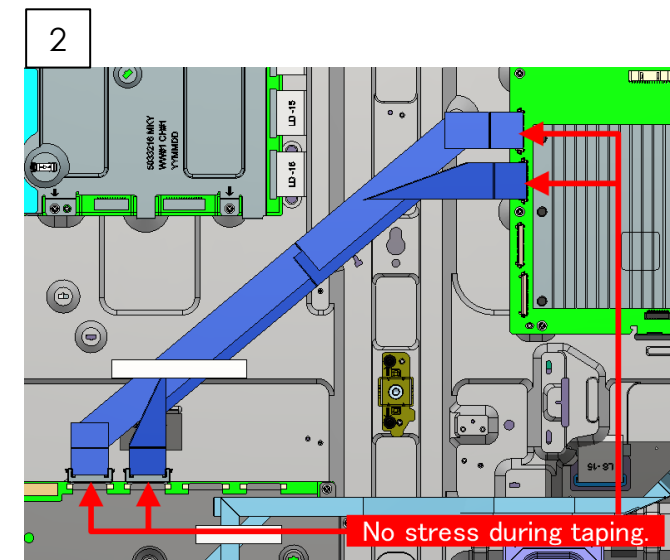
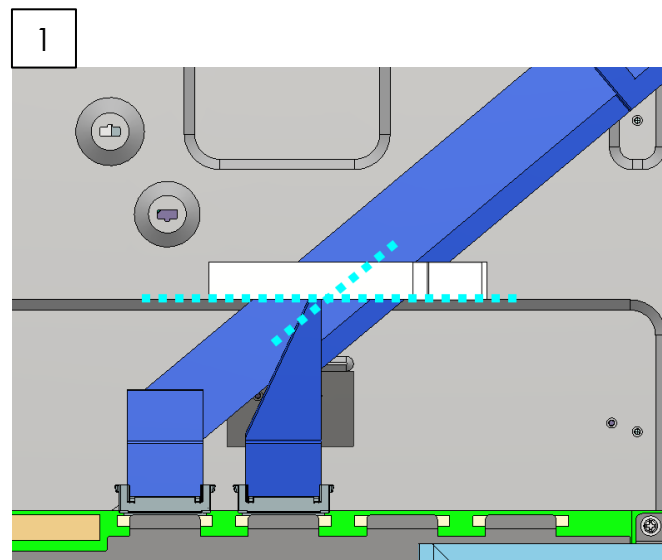
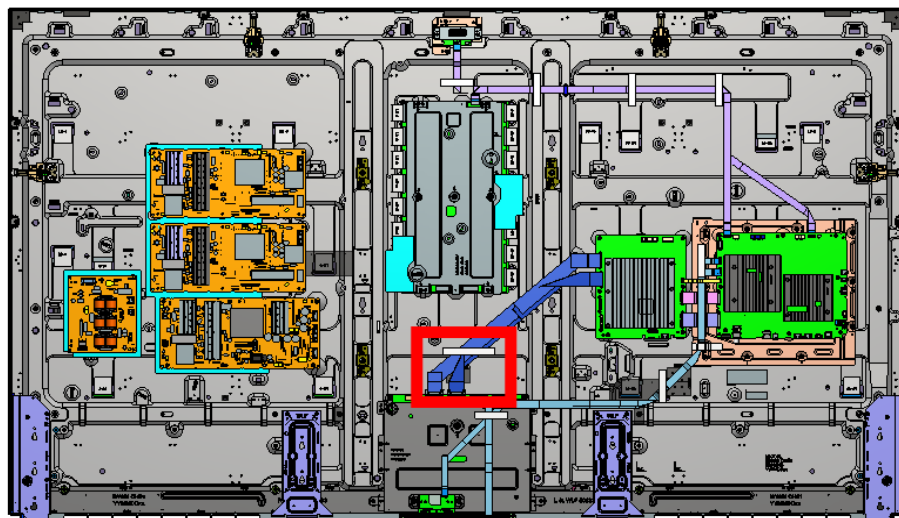
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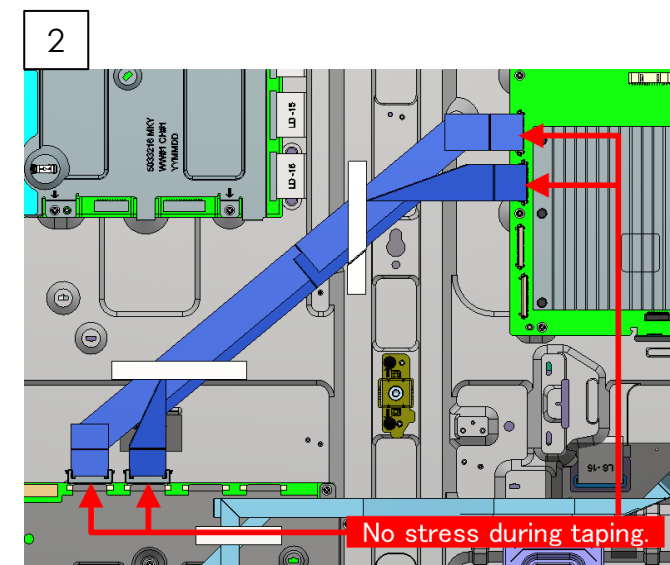
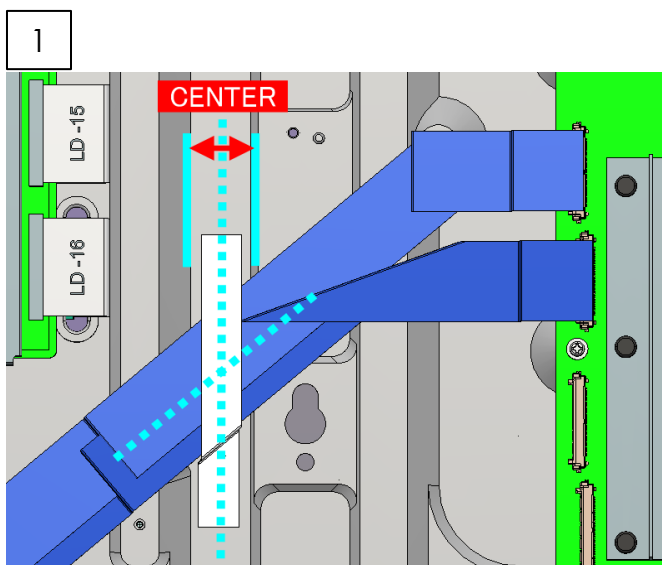
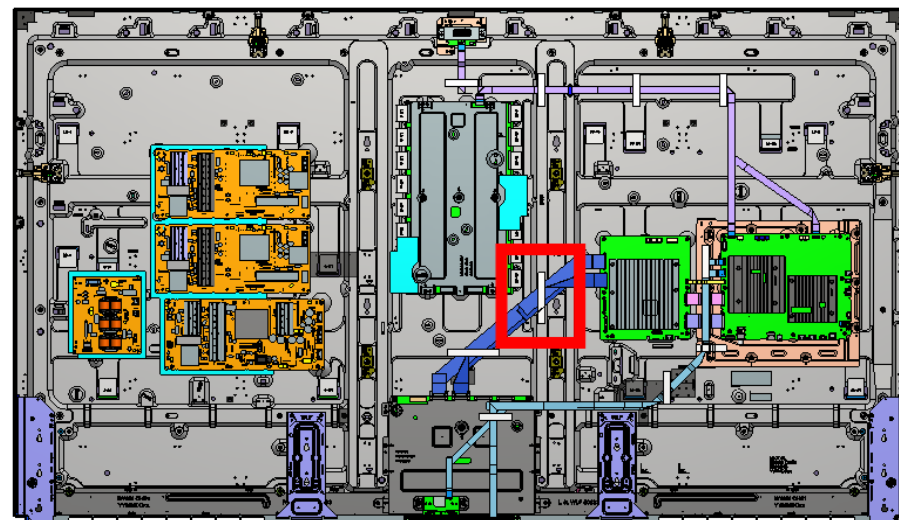
SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

TAPE



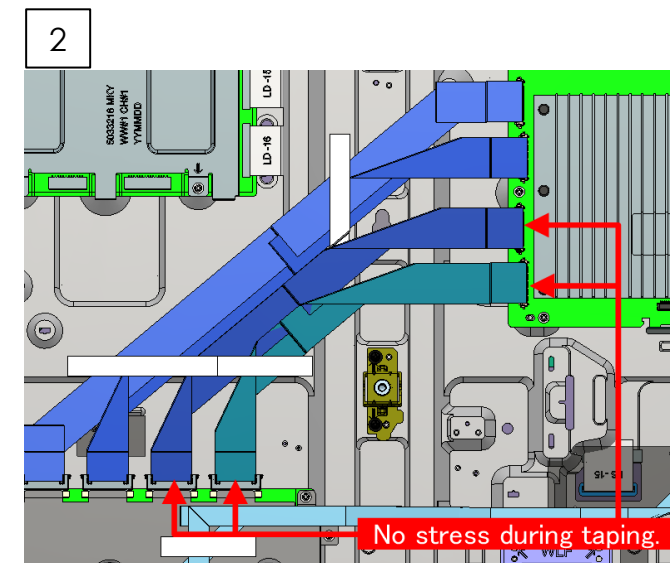
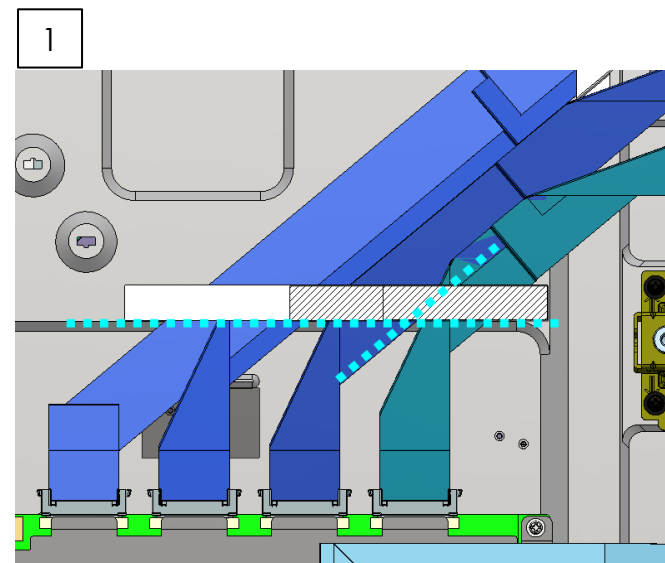
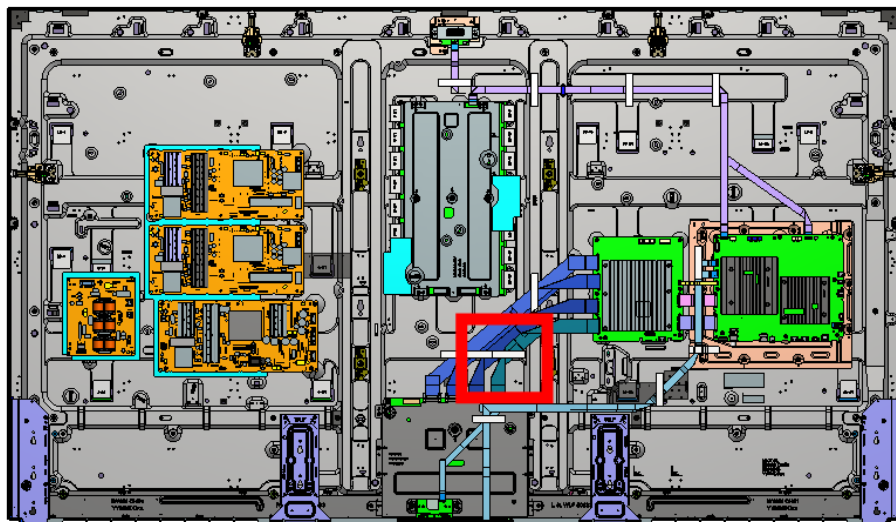
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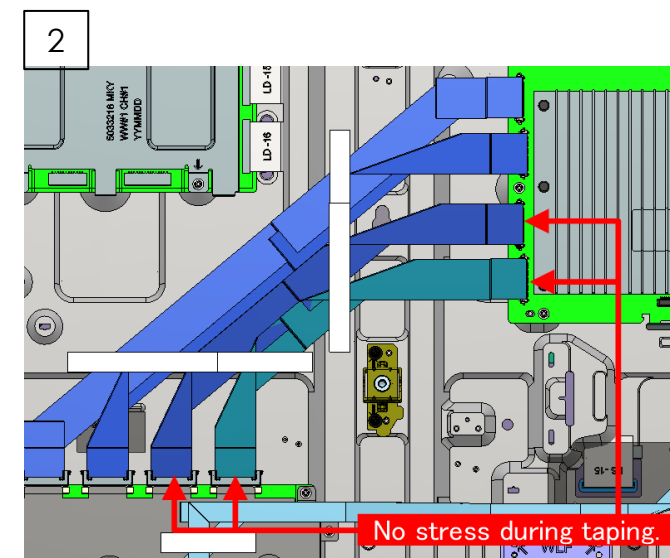
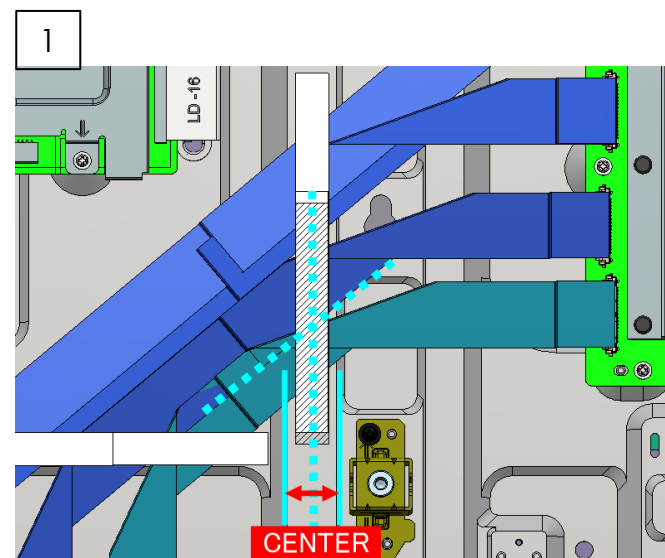
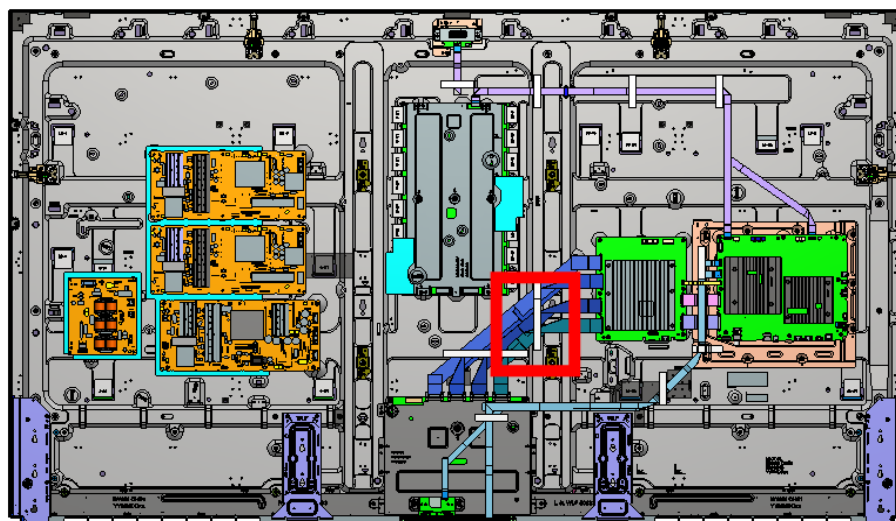
SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

TAPE



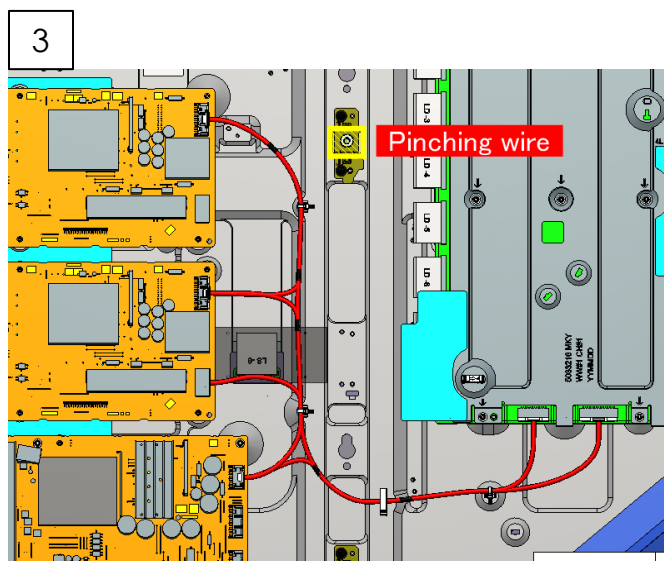
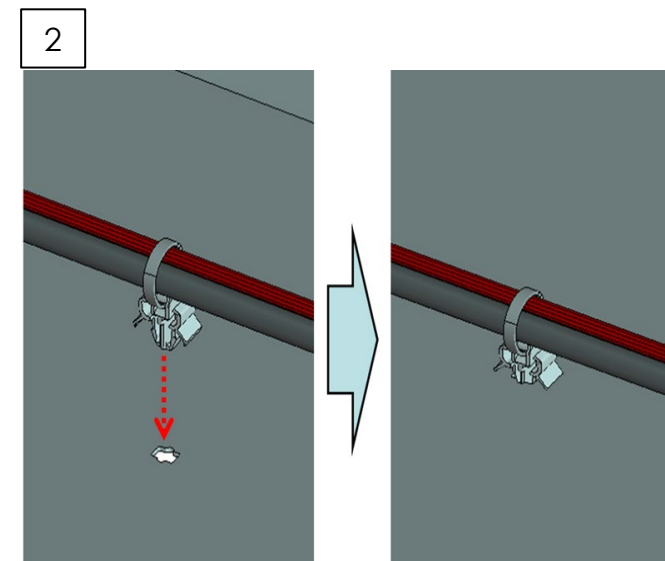
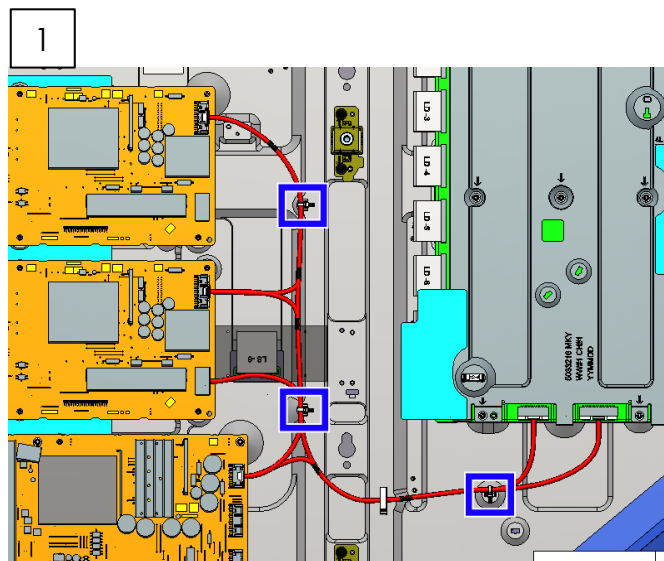
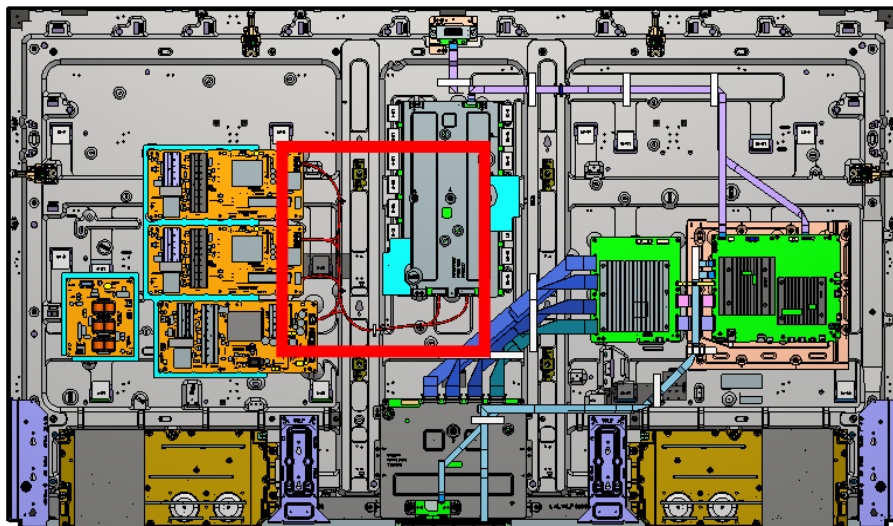
TAPE



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

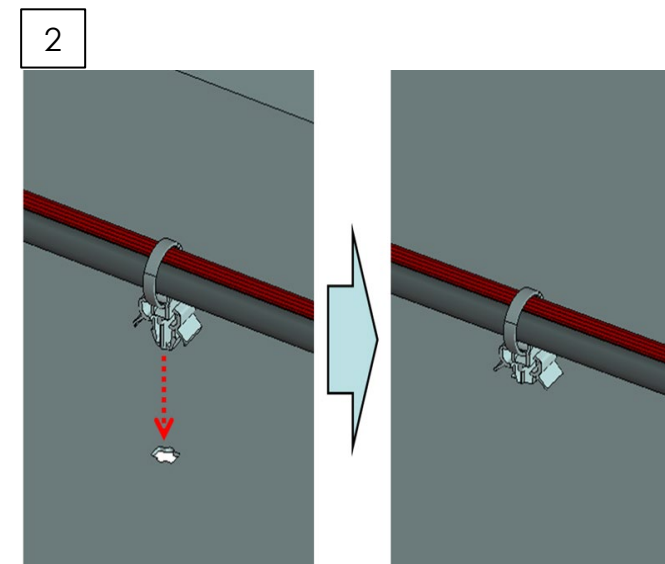
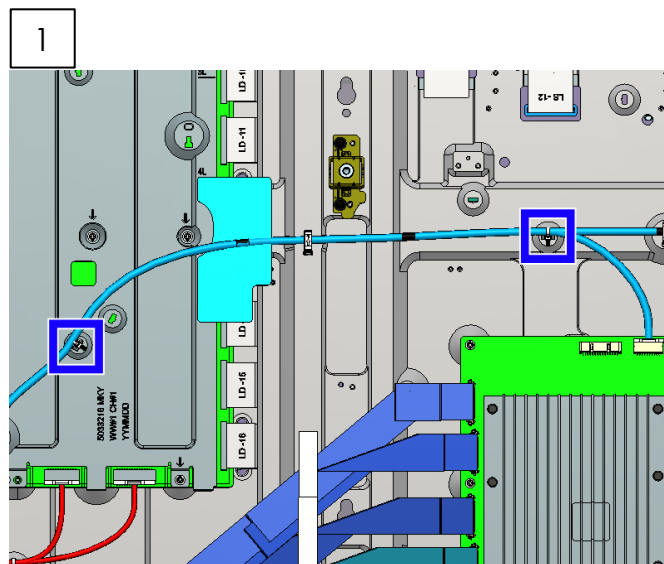
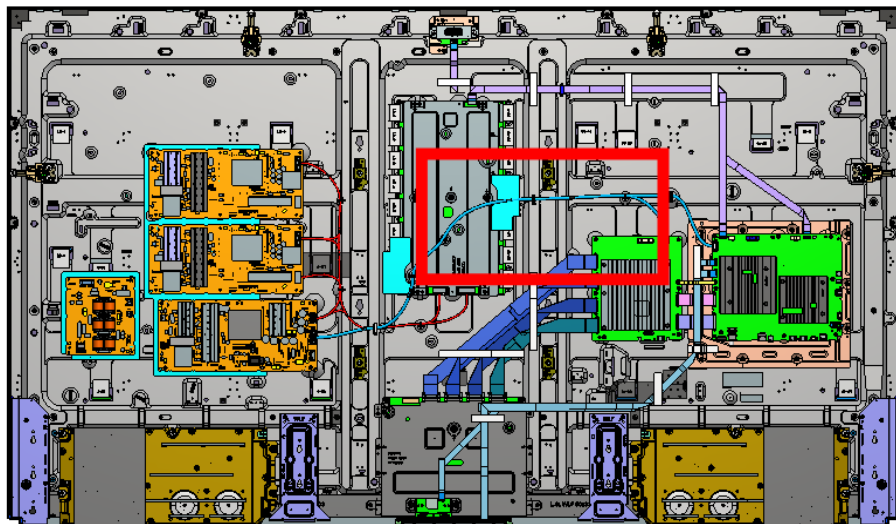
WIRE DRESSING



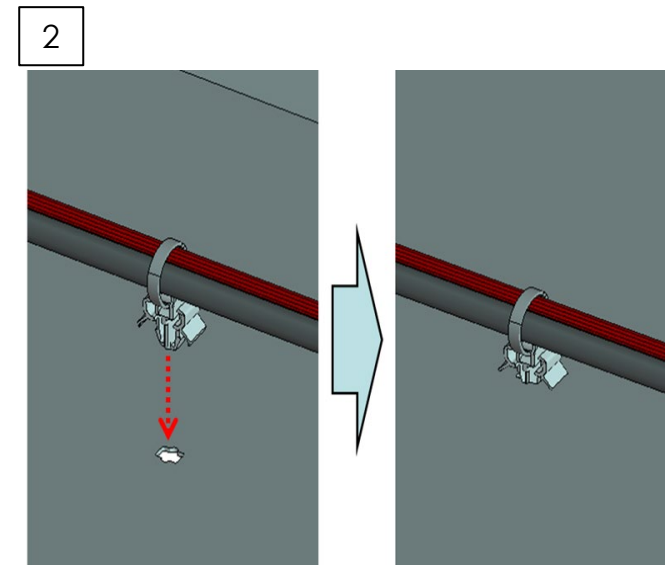
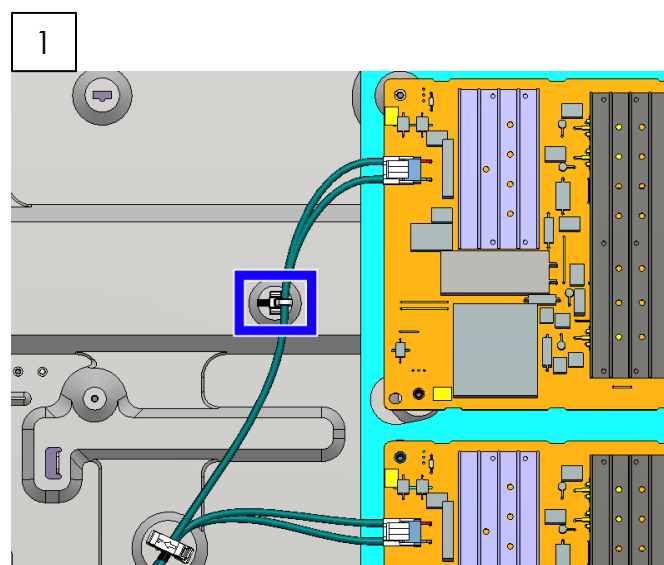
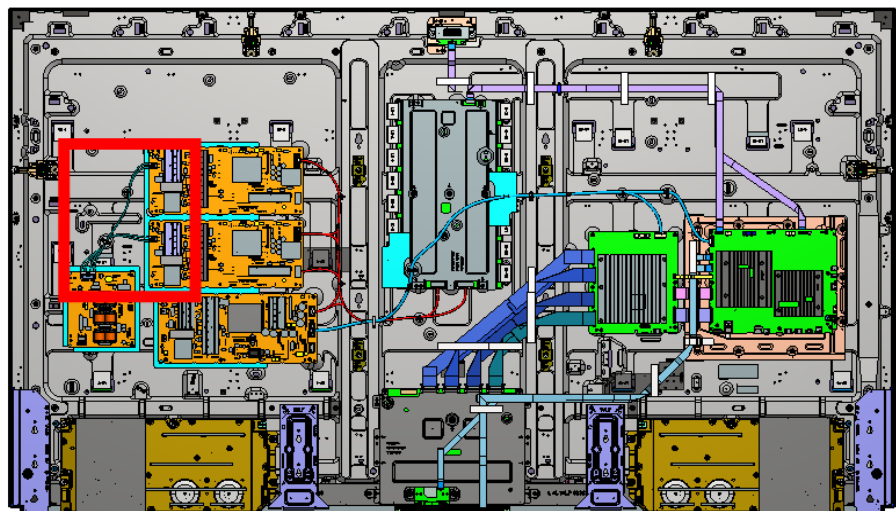
SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

WIRE DRESSING



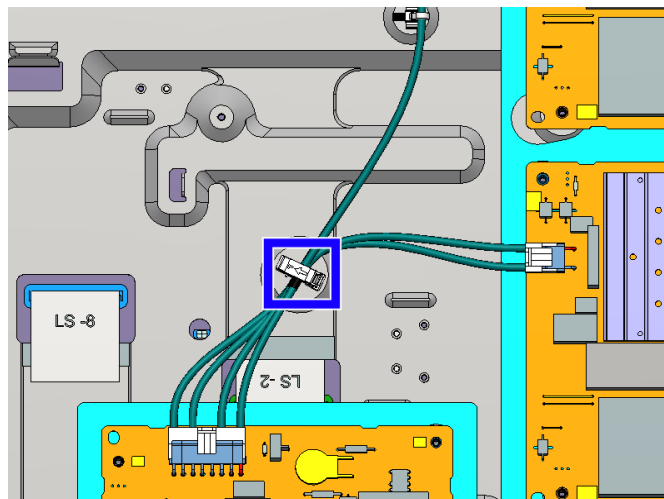
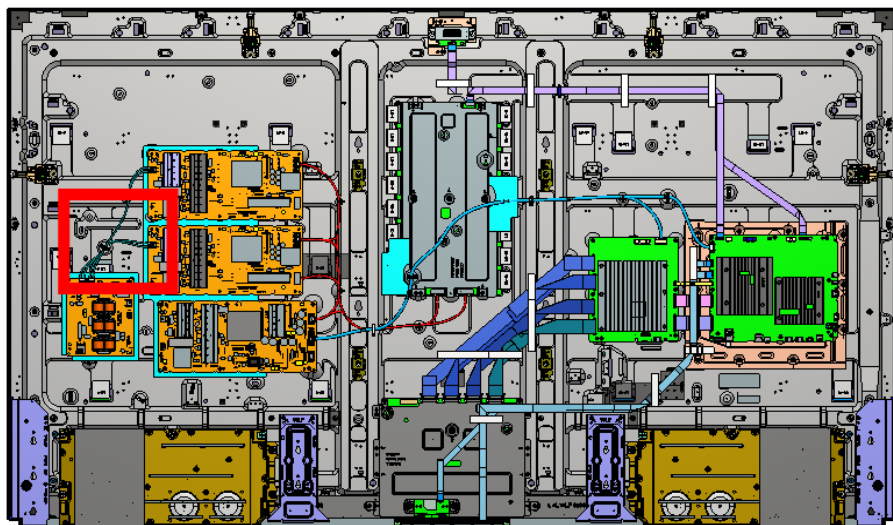
WIRE DRESSING



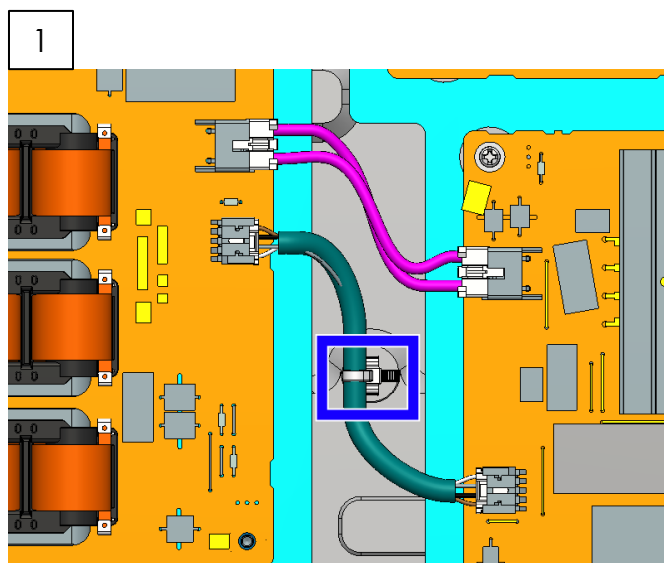
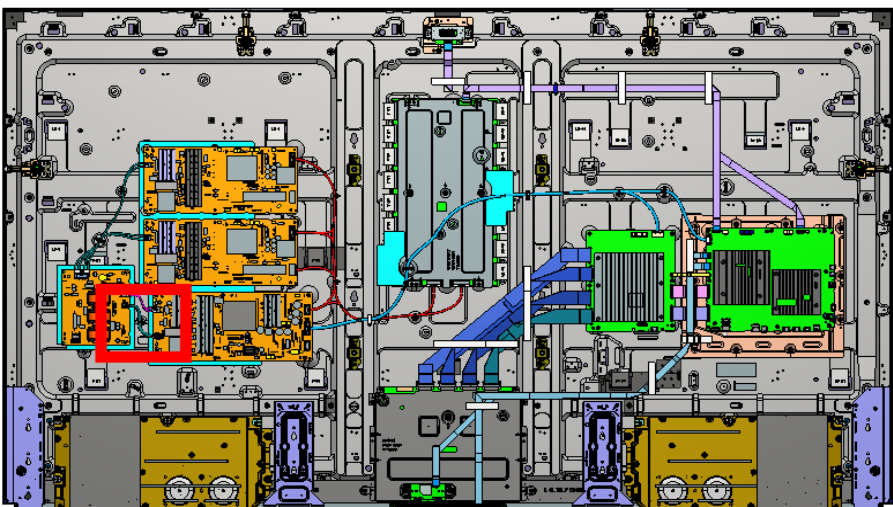
SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

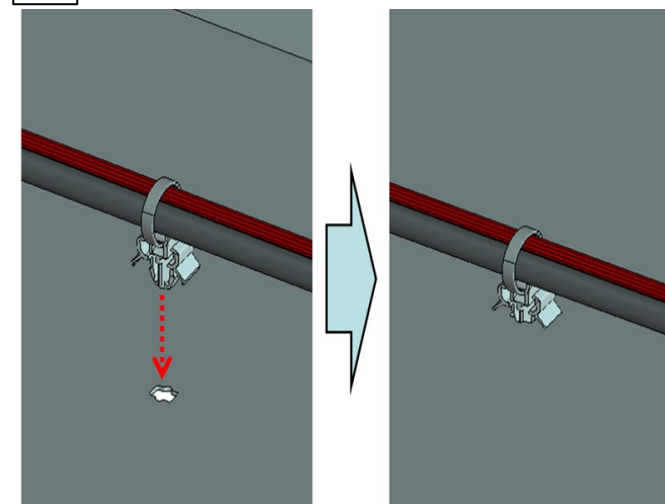
WIRE DRESSING



WIRE DRESSING



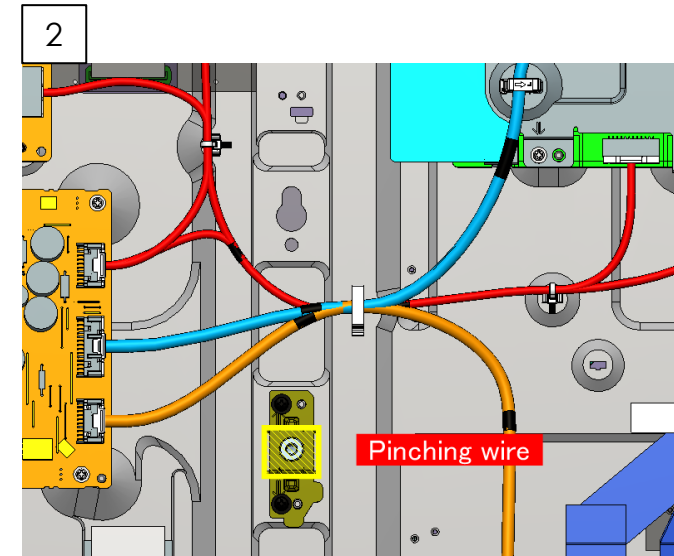
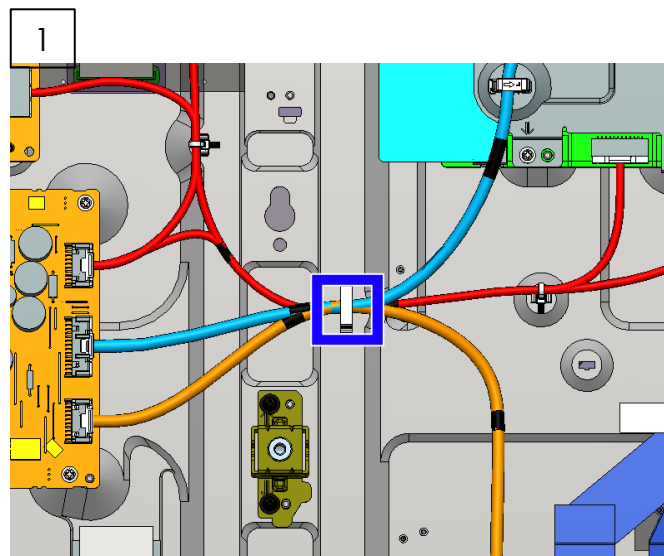
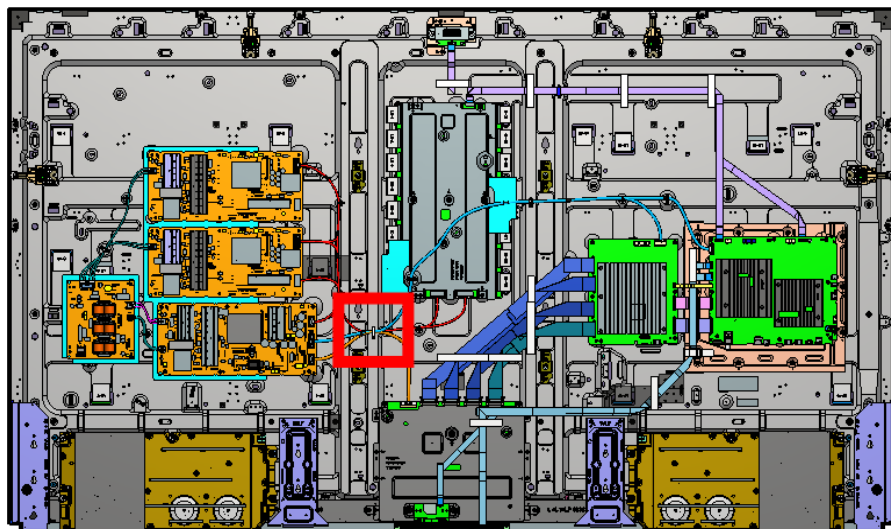
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SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

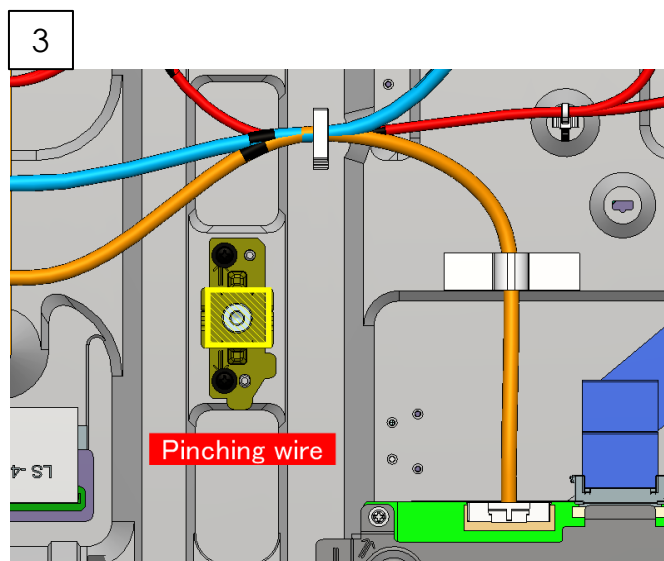
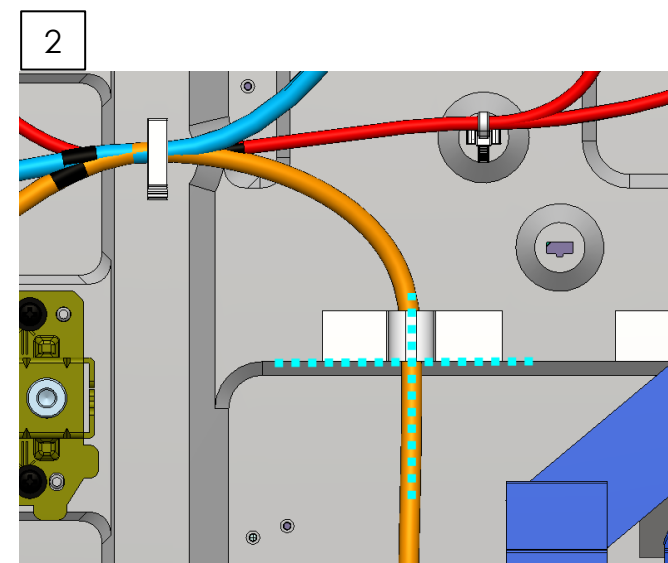
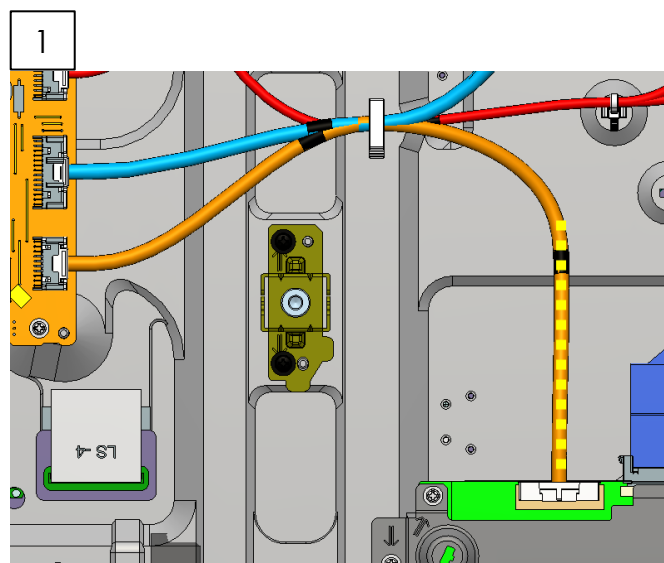
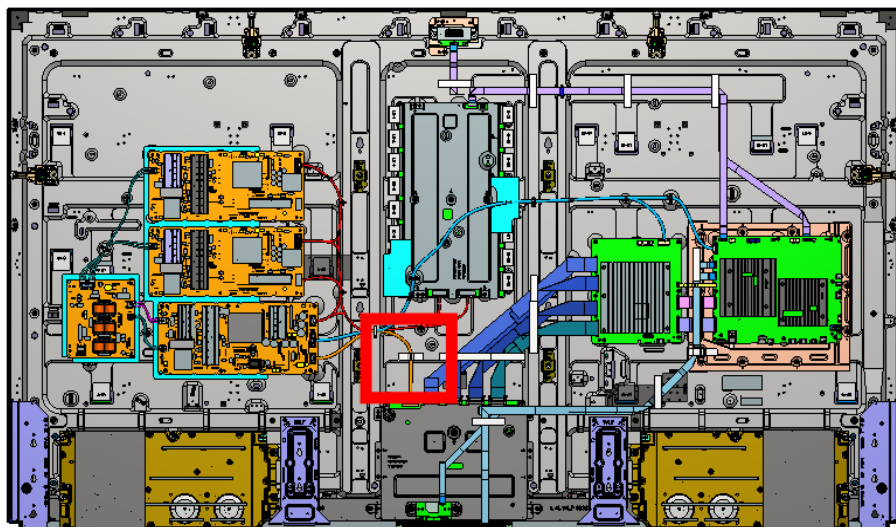
WIRE DRESSING



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

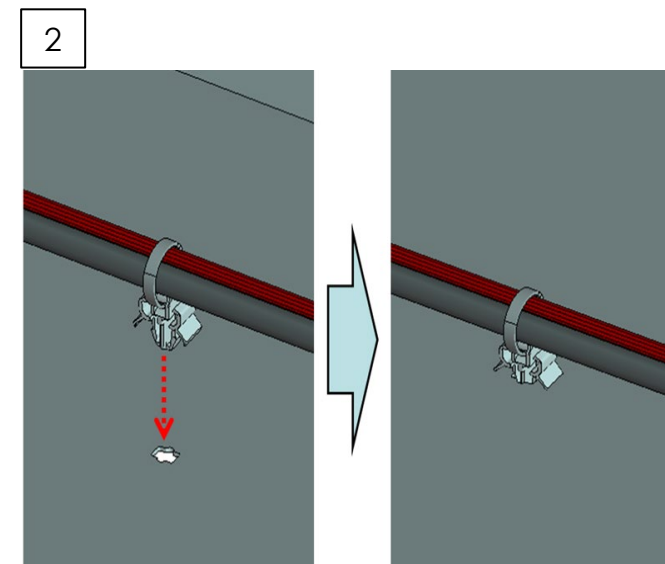
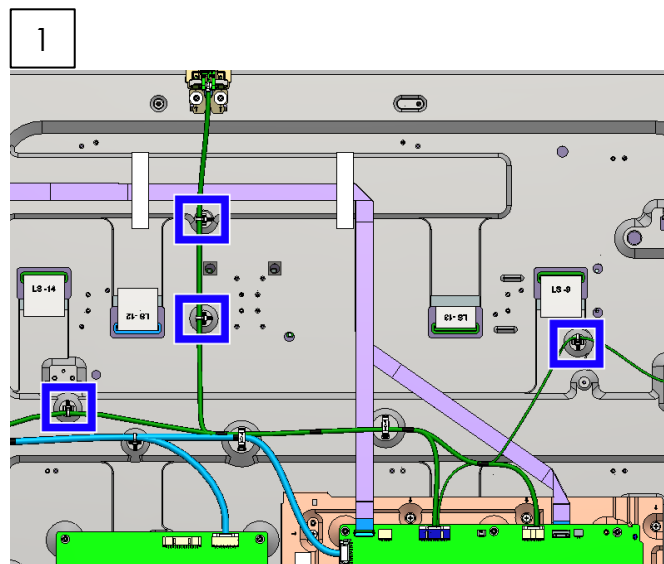
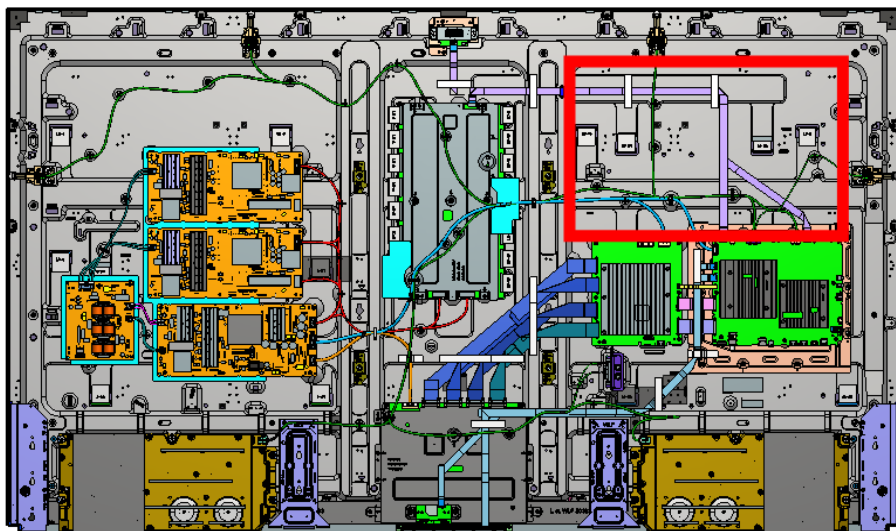
TAPE



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

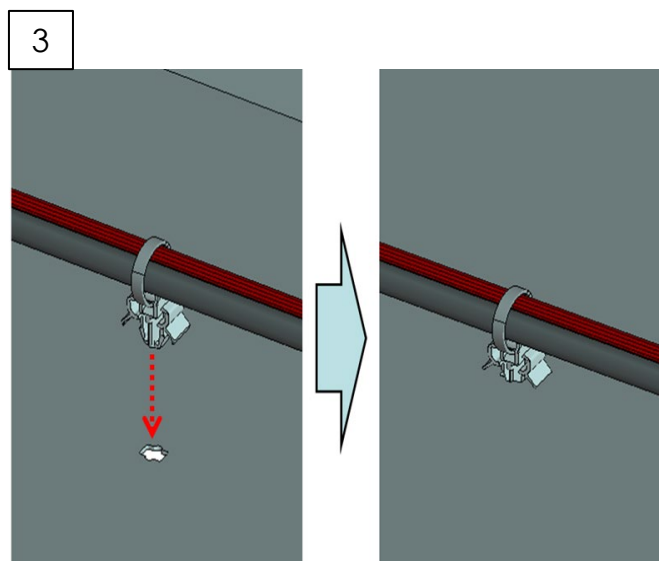
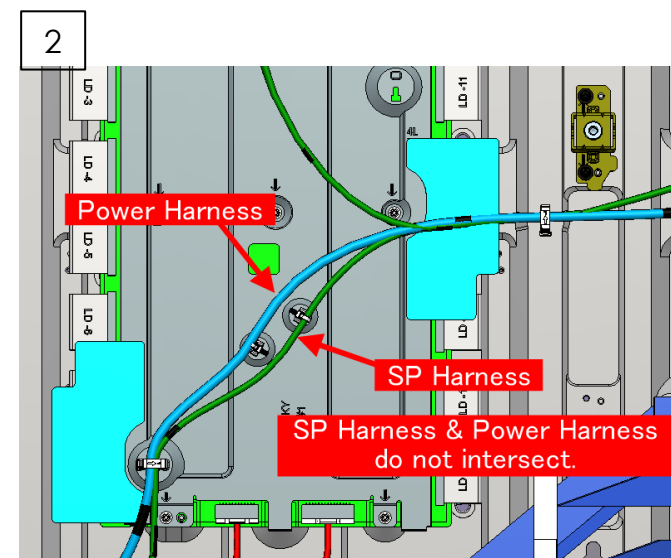
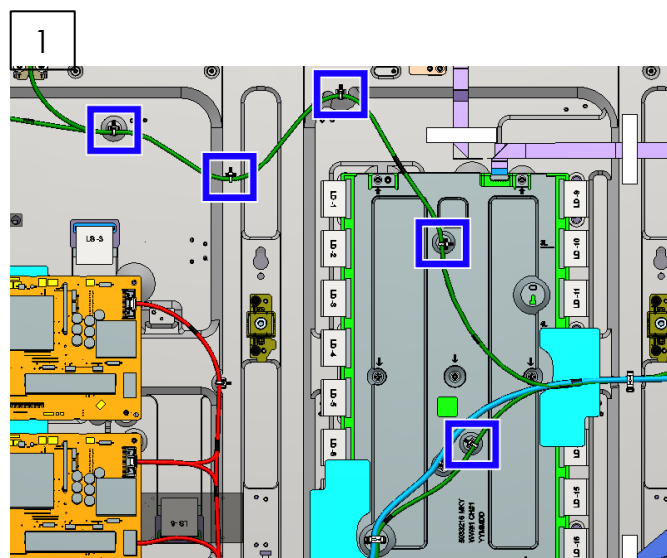
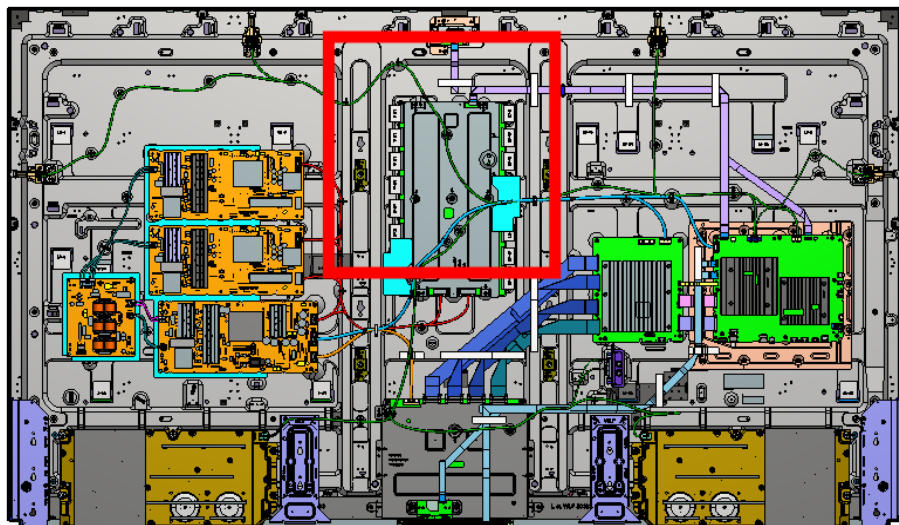
WIRE DRESSING



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

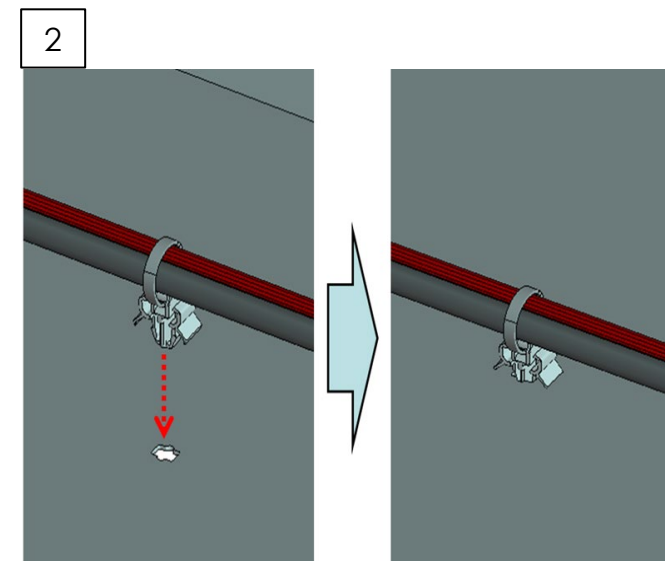
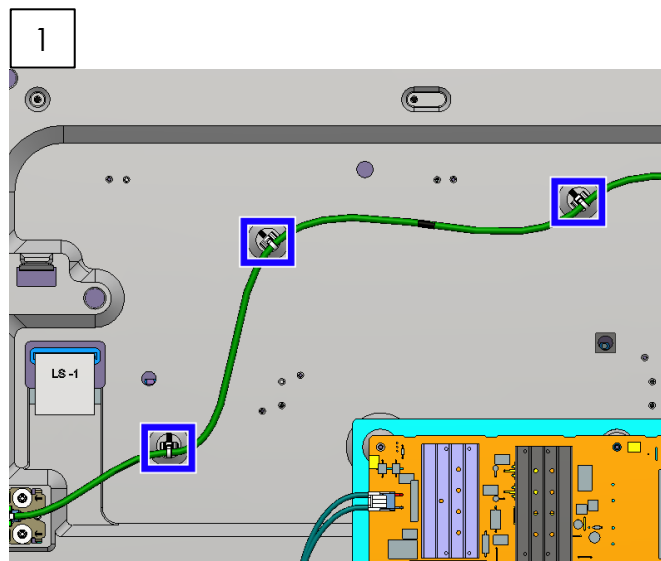
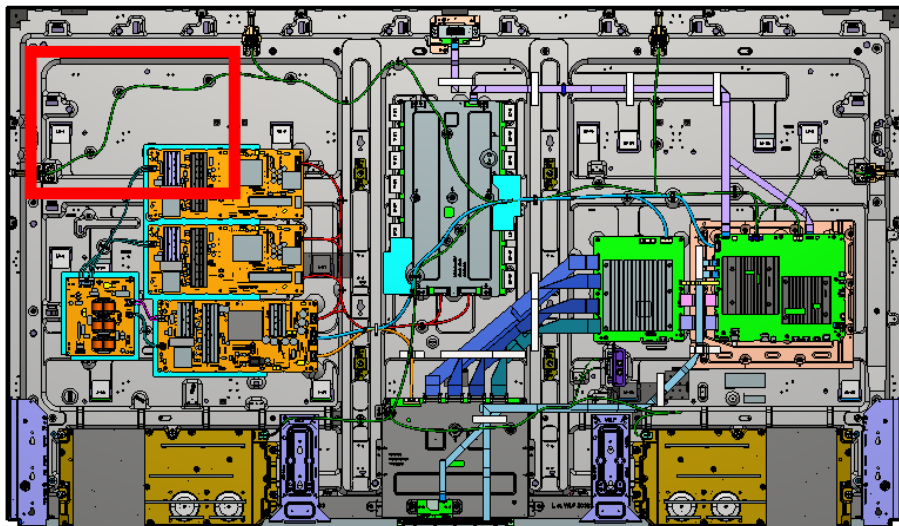
WIRE DRESSING



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

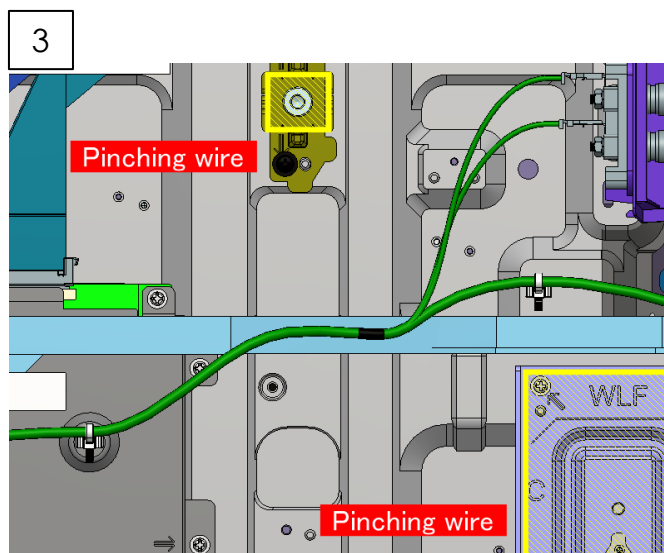
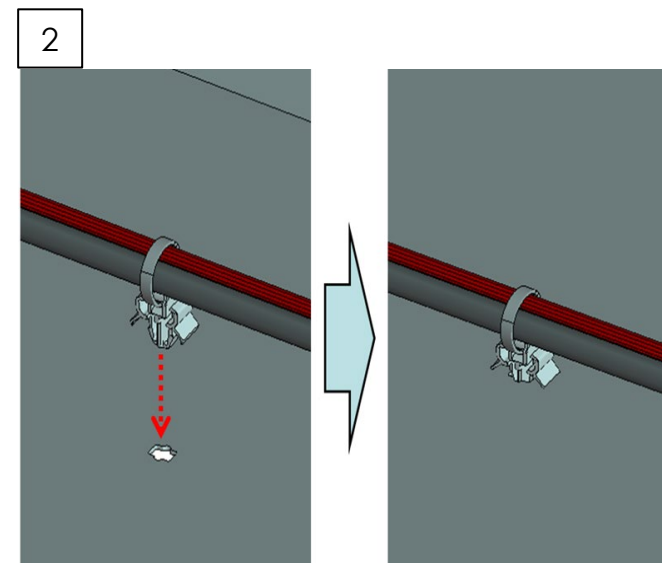
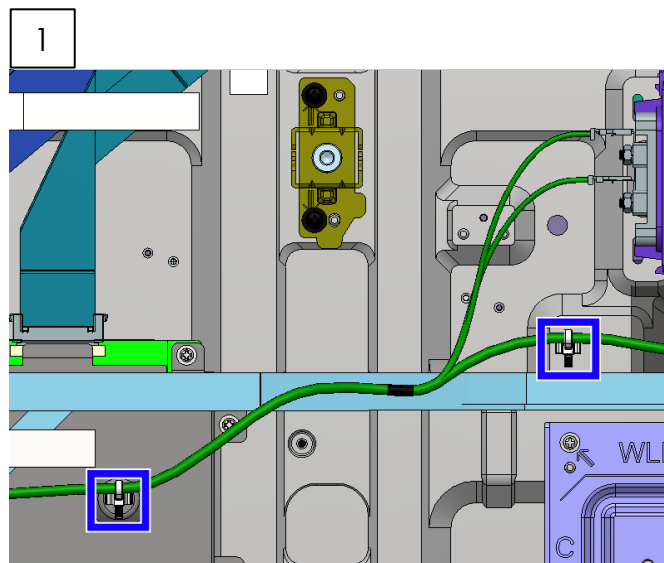
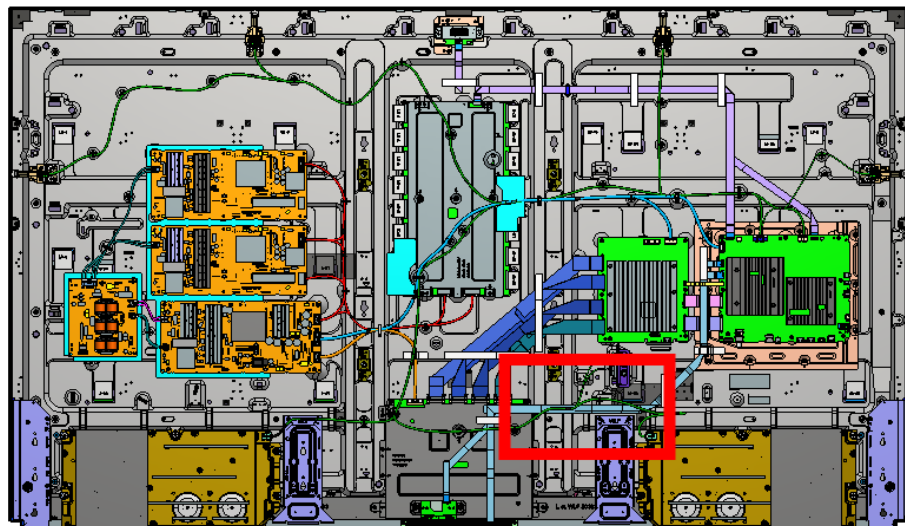
WIRE DRESSING



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

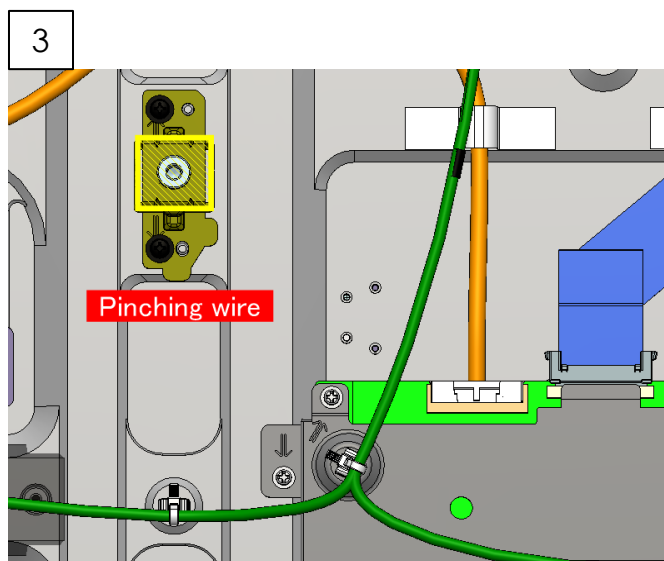
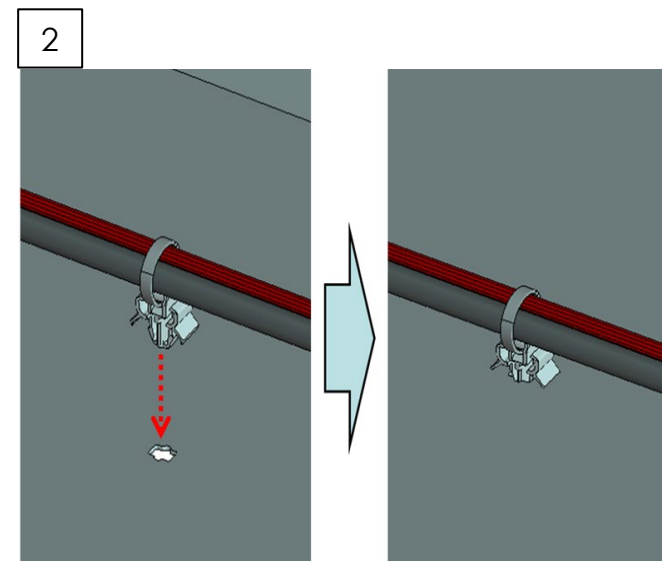
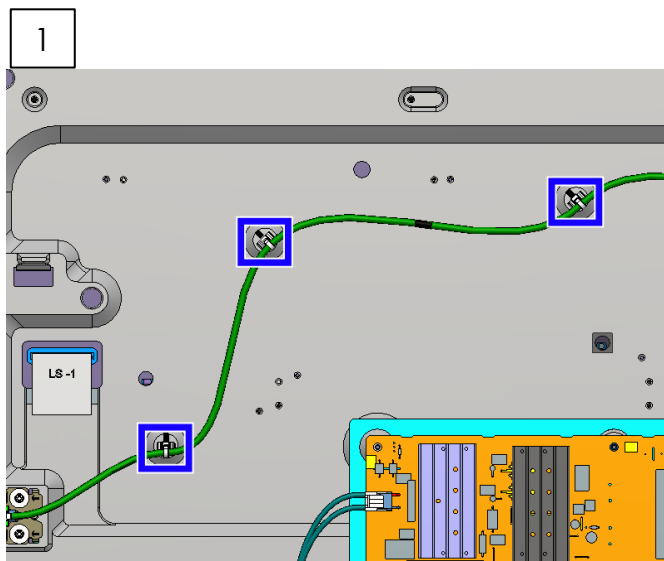
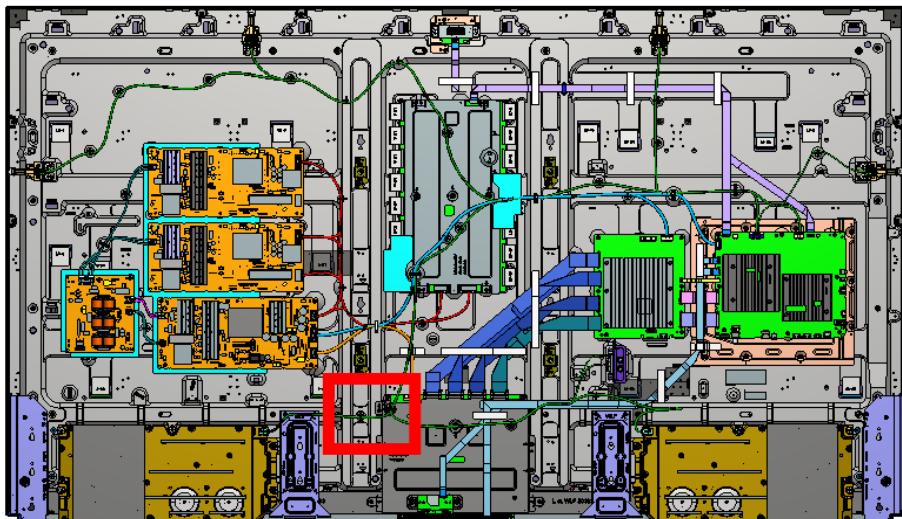
WIRE DRESSING



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

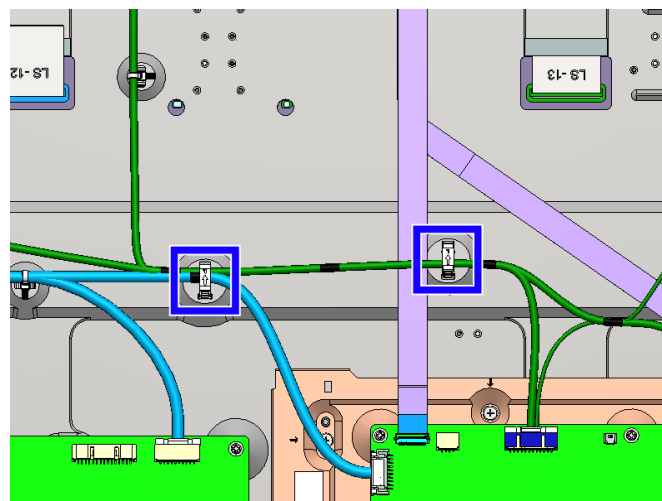
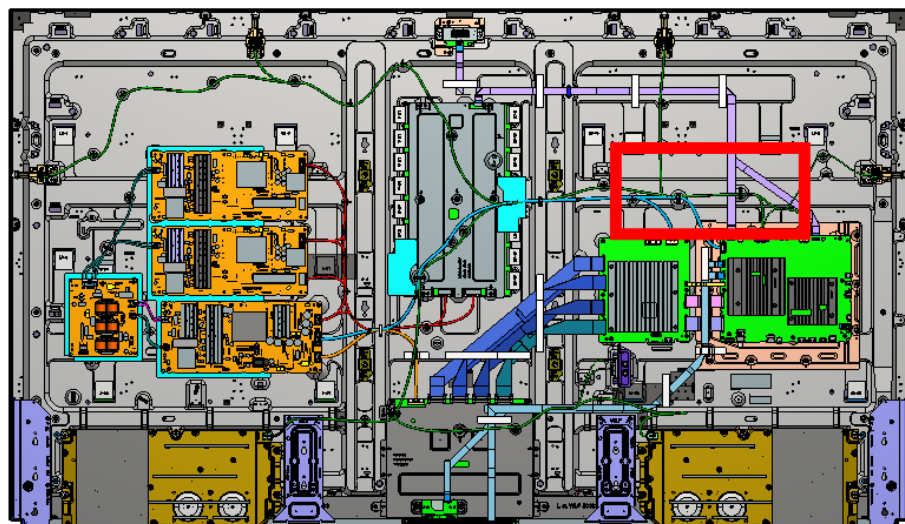
WIRE DRESSING



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

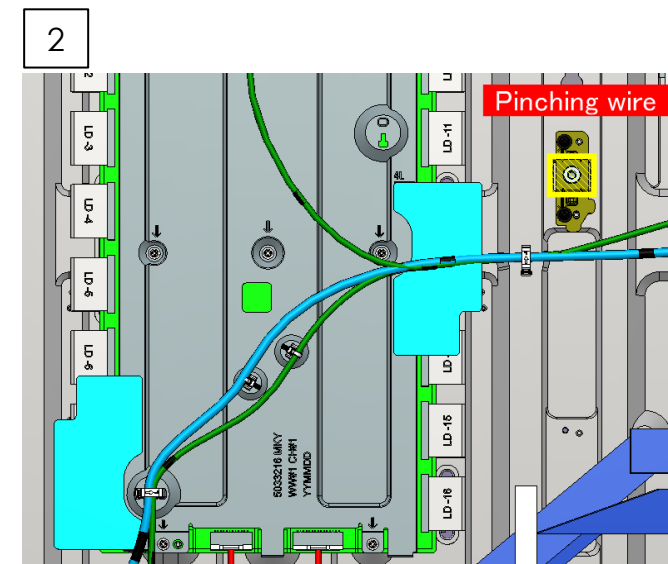
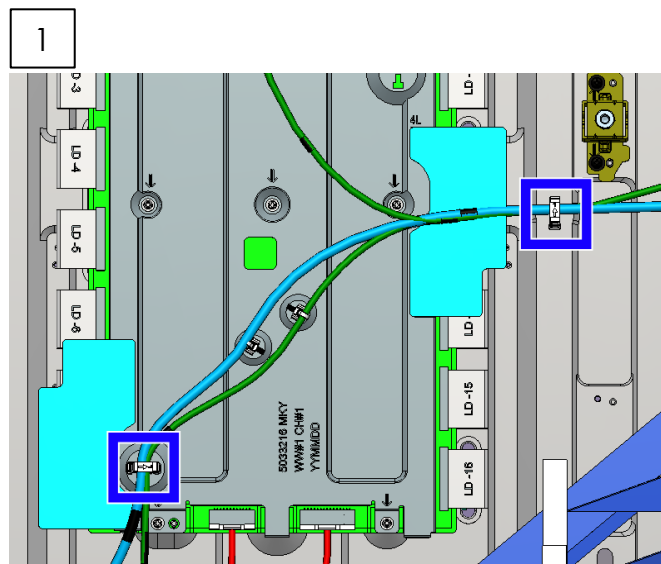
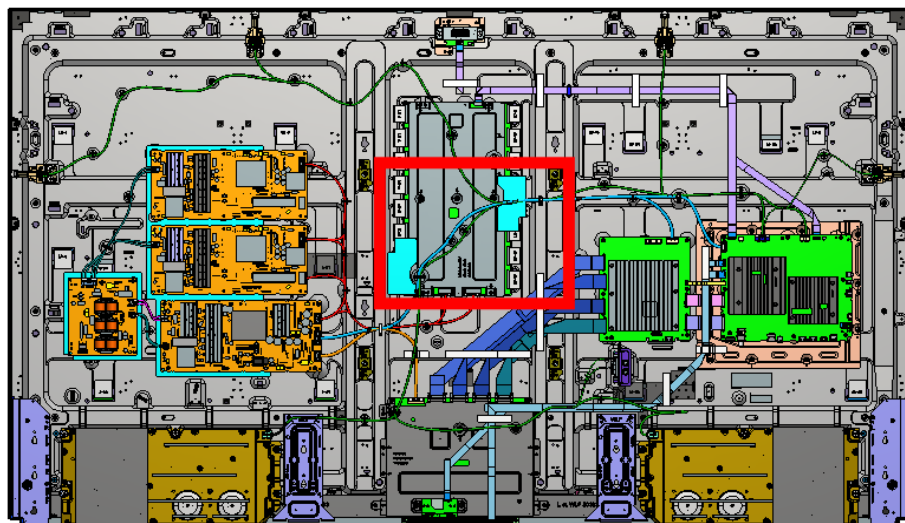
WIRE DRESSING



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

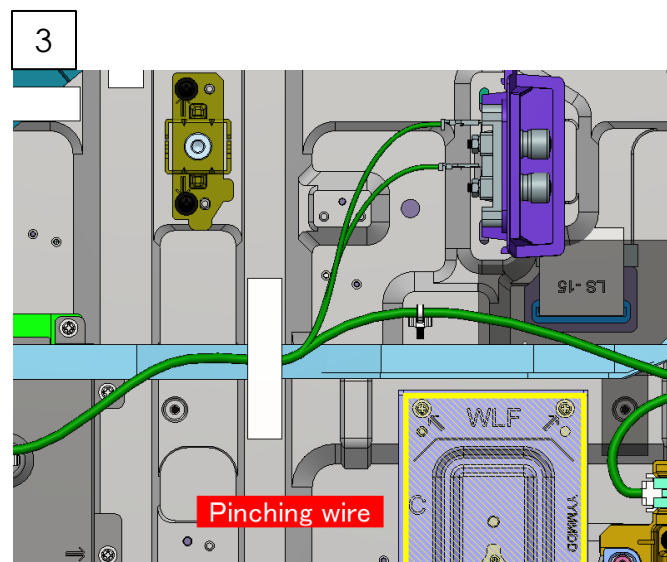
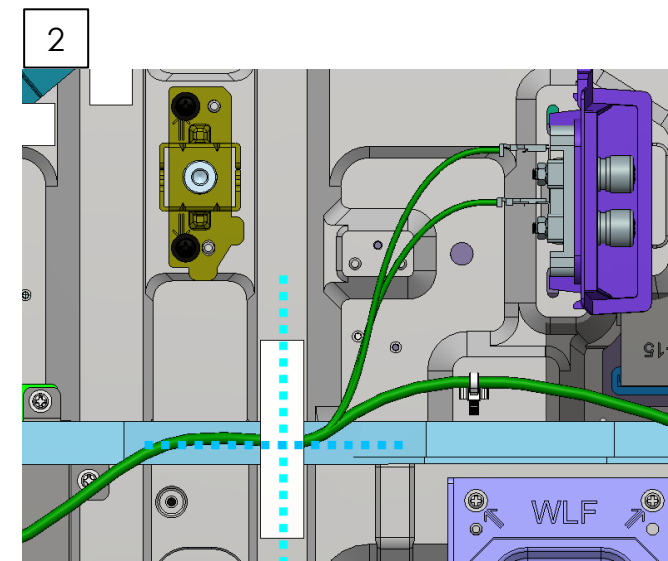
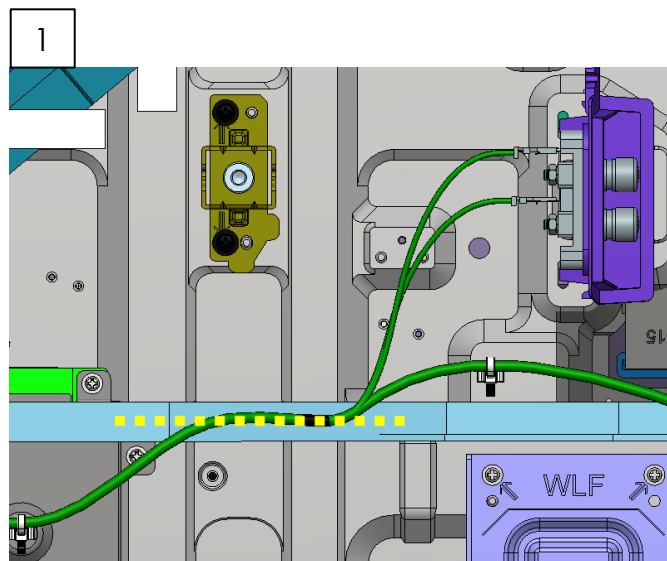
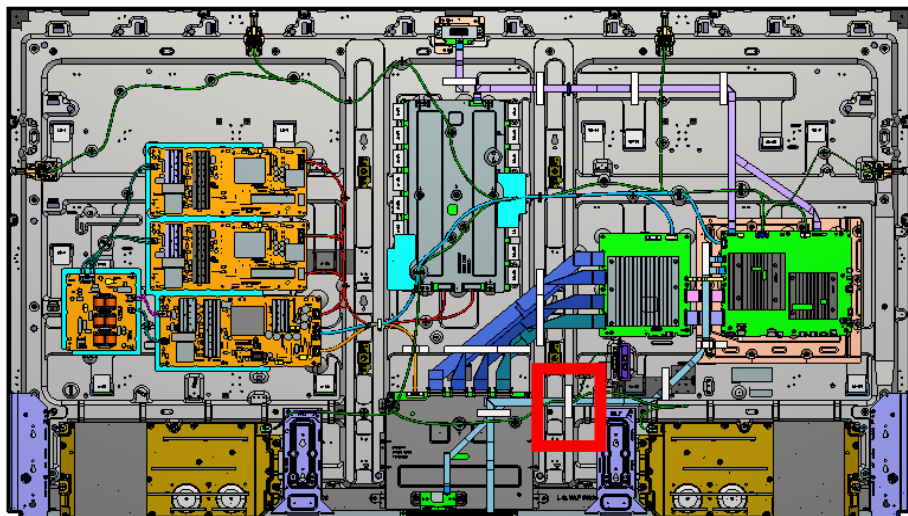
WIRE DRESSING



SECTION 2: XR-85Z9K

2-3. WIRE DRESSING

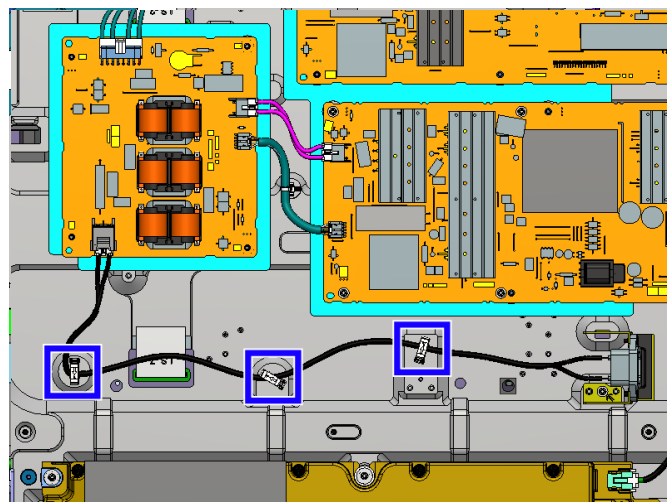
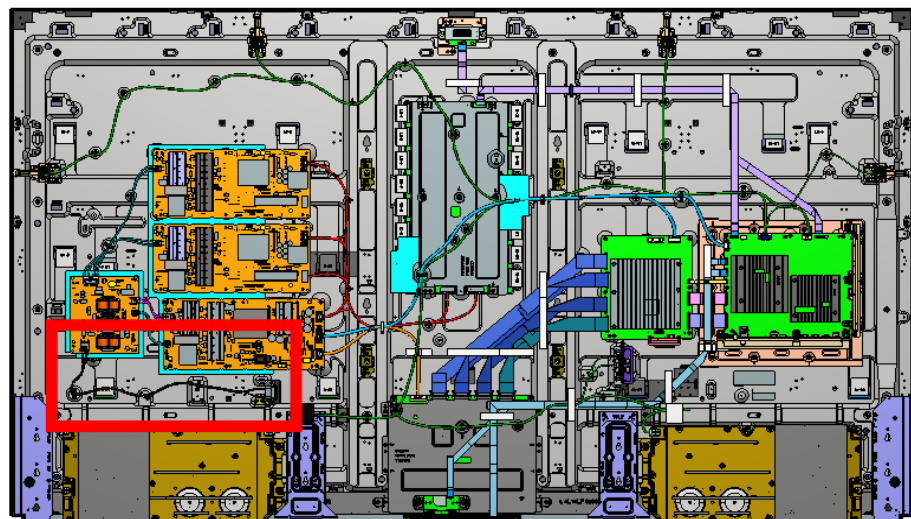
TAPE



SECTION 2: XR-85Z9K



2-3. WIRE DRESSING

WIRE DRESSING

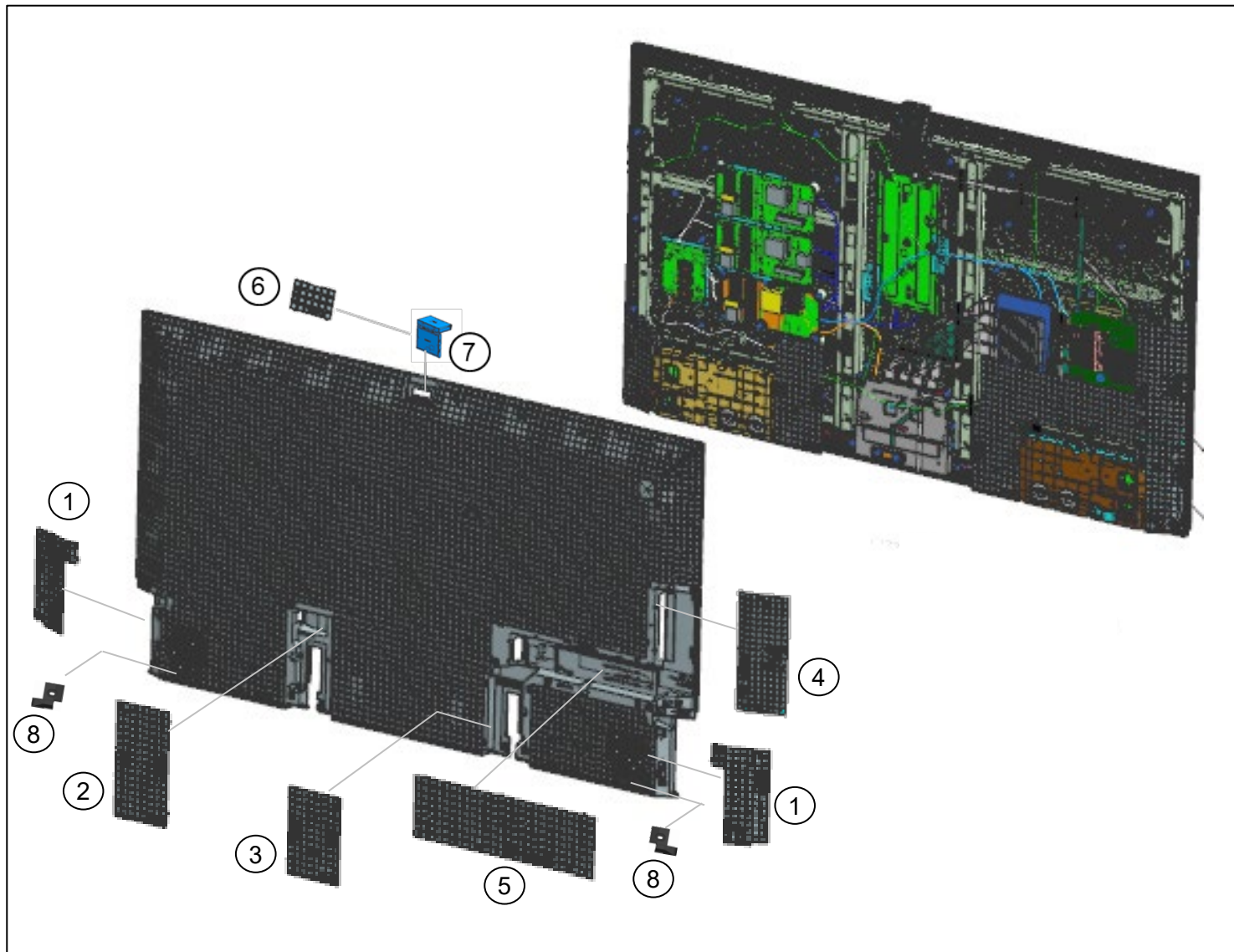



SECTION 2: XR-85Z9K

2-4. EXPLODED VIEW AND PART LIST

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



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



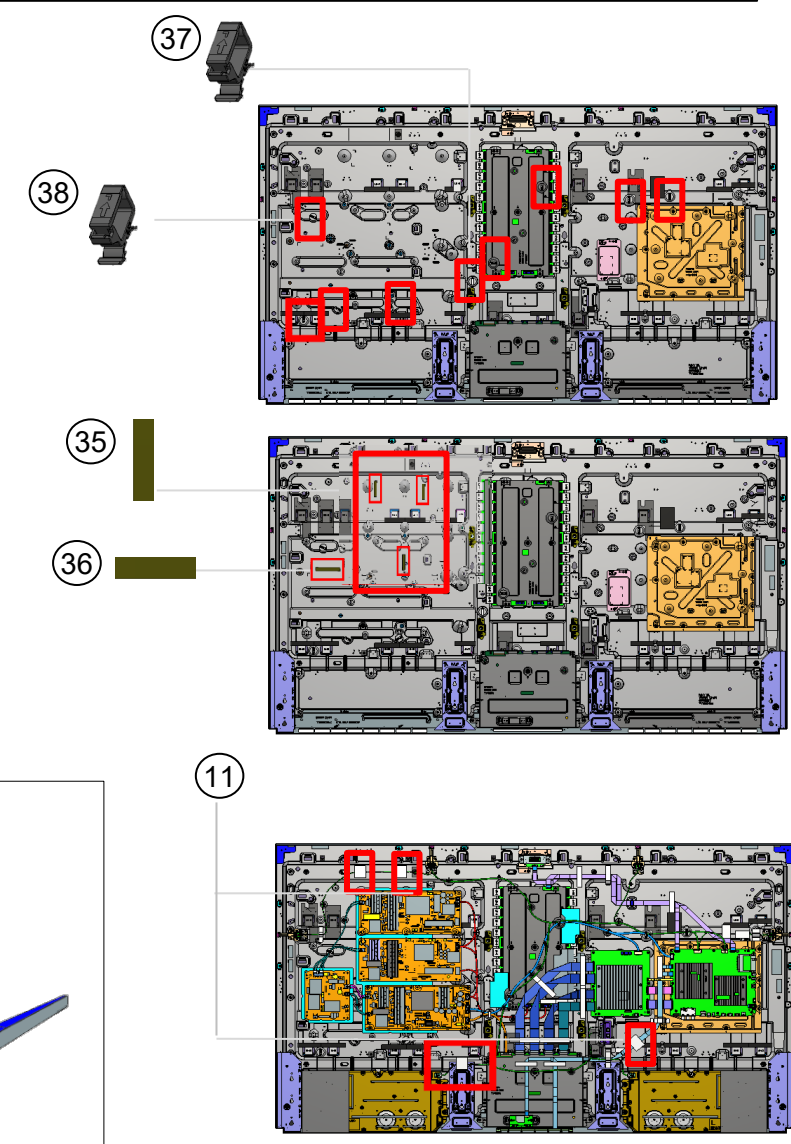
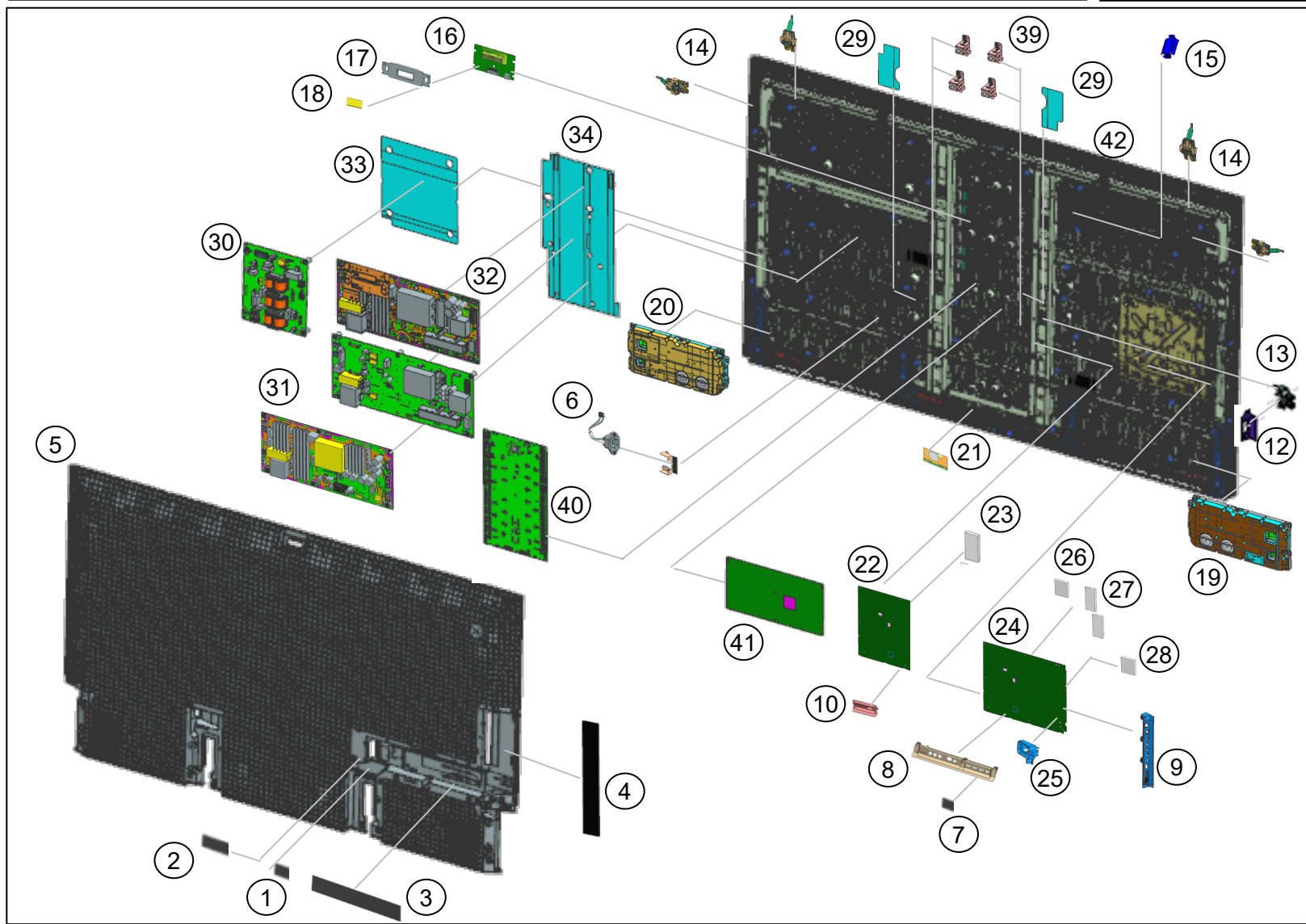
REF. NO	PART NO.	DESCRIPTION	CN8
1	5-035-424-01	STAND COVER LR (3L WLF) A	•
2	5-035-423-01	STAND COVER CR (3L WLF) A	•
3	5-035-422-01	STAND COVER CL (3L WLF) A	•
4	5-035-421-01	COVER TML V (3L WLF) A	•
5	5-042-800-01	COVER TML H (3L WLF) A	•
6	5-035-426-01	COVER CM (WLF) A	•
 7	1-013-457-11	CAMERA MODULE (MAGNET)	•
8	5-035-499-01	BOTTOM CORNER LR (3L WLF) A	•

SECTION 2: XR-85Z9K

2-4. EXPLODED VIEW AND PART LIST

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






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









SECTION 2: XR-85Z9K

2-4. EXPLODED VIEW AND PART LIST

SET PART LIST

REF. NO	PART NO.	DESCRIPTION	UCM
1	5-012-813-01	LABEL, HDMI (LMN)	•
2	5-000-203-01	LABEL, CENTER SP (OCD)	•
3	5-036-143-01	LABEL, UNDER TERMINAL (WLF)	•
4	5-036-145-01	LABEL, SIDE TERMINAL (BM5S22)	•
 5	5-033-706-01	REAR COVER (4L WLF) A	•
 6	1-005-644-11	C18 INLET ASSY 500	•
7	4-747-311-01	LABEL, COVER HDMI	•
8	4-724-146-14	BRACKET, UNDER (BM2A)	•
9	5-036-017-22	BRACKET, SIDE(SGT)	•
10	4-743-381-01	BRACKET, ONT (OCD)	•
11	4-531-003-01	CUSHION 3525A	•
12	4-743-315-12	BRACKET, CNT SP (OCD)	•
13	1-854-260-11	SCREW TERMINAL	•
14	1-013-714-11	ACTUATOR, FY22 PZ2X2X9	•
15	4-745-335-01	FLAT CLAMP(FFC)	•
16	1-013-459-11	MAGNET CONNECTOR MODULE (WW)	•
17	5-032-685-02	BKT, CM (DER)	•
18	5-035-603-01	GASKET, CM (DER)	•
19	1-010-044-31	SP-BOX ASSY, FY21 D42-SLIT(L)	•
20	1-010-044-41	SP-BOX ASSY, FY21 D42-SLIT(R)	•
 21	1-005-419-32	WLAN/BT MODULE(11AC)FXC	•
 22	A-5028-569-A	COMPL SVC ONT2	•
23	5-023-828-01	SHEET, THERMAL (ONT2)	•
 24	A-5041-905-A	COMPL SVC BM5S22_FW_UCMX	•
25	5-023-281-02	KEY, TOP(SGT)	•

REF. NO	PART NO.	DESCRIPTION	UCM
26	5-011-960-01	SHEET, THERMAL(LMN TCON)	•
27	5-023-557-01	SHEET THERMAL(BM5S21 DDR)	•
28	4-699-975-02	SHEET, THERMAL(5567H)	•
29	5-035-070-01	SHT, INSULATION LD(WLF)	•
 30	1-013-593-11	GF1 - STATIC CONVERTER(TV)	•
 31	1-013-594-11	GS1 - STATIC CONVERTER(TV)	•
 32	1-013-596-11	GP1 - STATIC CONVERTER(TV)	•
 33	5-032-570-01	SHT, INSULATION (WLF) S	•
 34	5-032-569-01	SHT, INSULATION (WLF) L	•
35	5-039-413-01	CUSHION, SHT INS T5 (WLF)	•
36	5-039-414-01	CUSHION, SHT INS T10 (WLF)	•
37	2-650-770-51	SLIDE, CLAMP - WHITE	•
38	2-650-770-31	SLIDE, CLAMP - BLACK	•
39	*5-032-572-01	BRACKET, VESA (WLF)	•
40	A-5041-949-A	22LD768A1 COMPL	•
41	1-013-344-11	MOUNTED PWB E-T-CON (85)	•
 42	A-5049-284-A	P-MOD(HDCO085MDU02)(SVC)	•
43	5-034-899-01	STAND L(4L WLF) A	•
44	5-034-900-01	STAND R(4L WLF) A	•

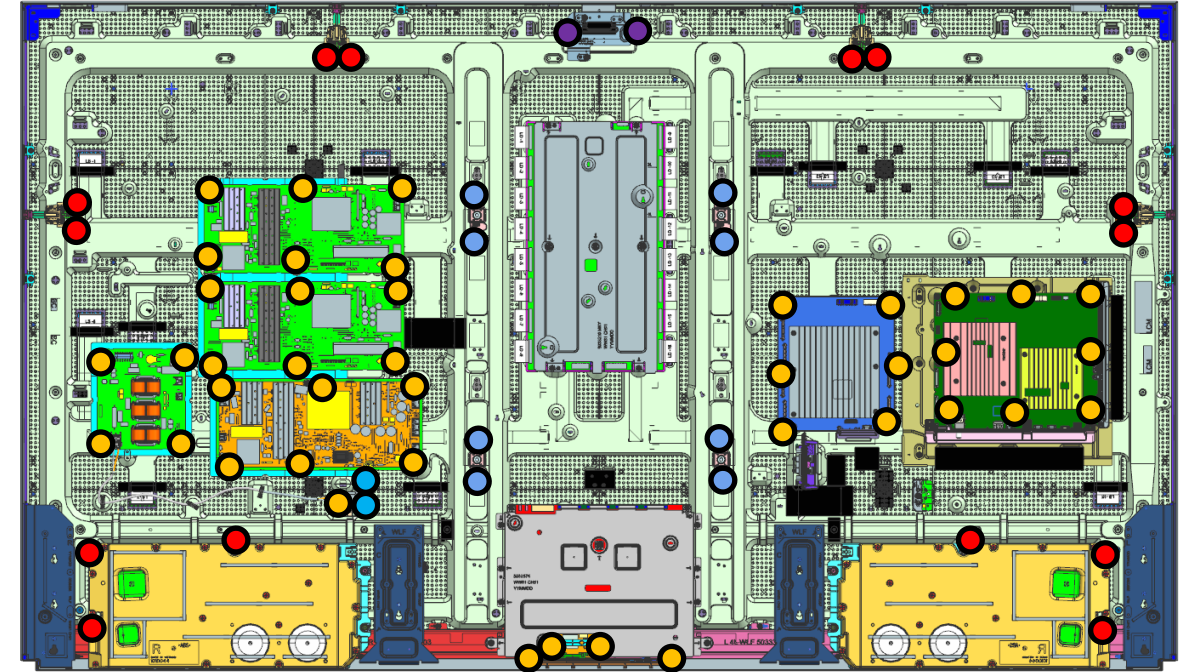
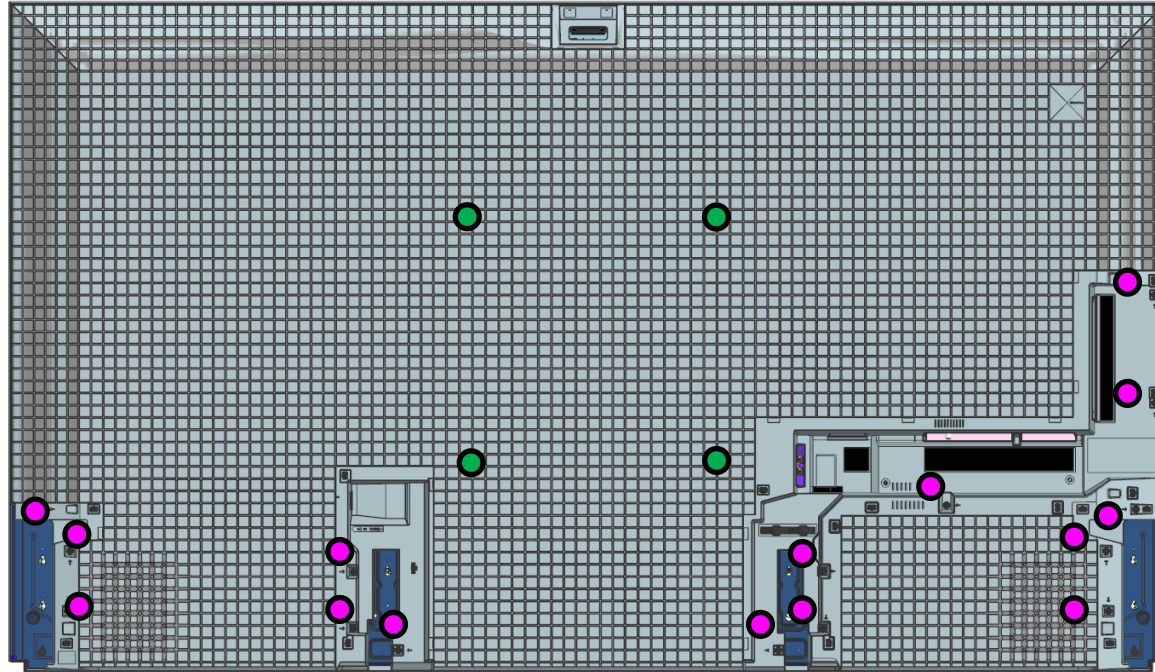
Notes : When replacing P-MOD, please also replace the following parts at the same time.

- | | |
|-----------------------------|--------------------------------|
| 11) CUSHION 3525A | 34) SHT, INSULATION (WLF) L |
| 18) GASKET, CM (DER) | 35) CUSHION, SHT INS T5 (WLF) |
| 29) SHT, INSULATION LD(WLF) | 36) CUSHION, SHT INS T10 (WLF) |
| 33) SHT, INSULATION (WLF) S | |

SECTION 2: XR-85Z9K

2-4. EXPLODED VIEW AND PART LIST

SCREW

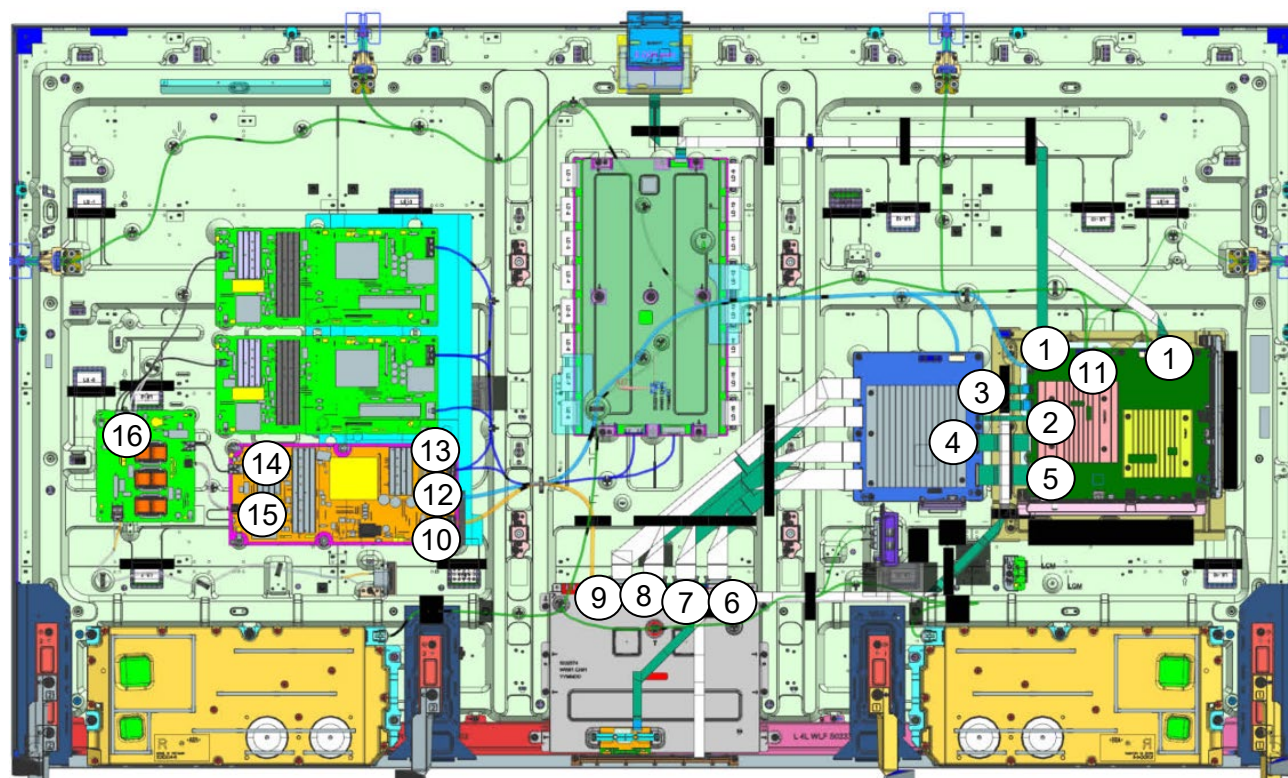


Remarks	P/N	Description	Qty	Torque (N.m)
●	4-268-126-02	SCREW, ORNAMENTAL M6X12	4	1.2 ± 0.1
●	4-579-926-01	SCREW M3X3.0 STEP	15	0.65 ± 0.05
●	4-256-393-12	SCREW, +PSW M3X6 W12	14	0.4 ± 0.05
●	2-580-600-01	SCREW, +PSW M4X8	8	0.65 ± 0.05
●	4-472-518-11	SCREW, +PSW M3x6	41	0.4 ± 0.05
●	5-034-828-01	SCREW, STEP CM	2	0.3 ± 0.05
●	2-580-592-01	SCREW, +PSW M3X8	2	0.4 ± 0.05

SECTION 2: XR-85Z9K


2-4. EXPLODED VIEW AND PART LIST

CONNECTOR



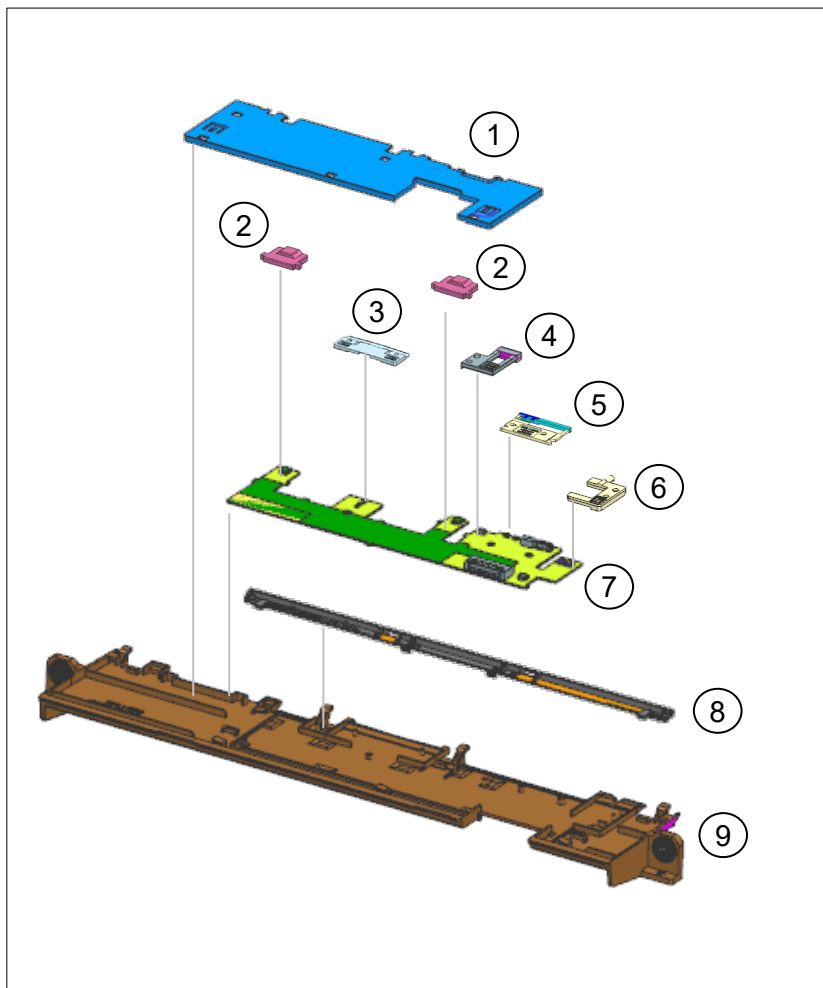
REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-014-871-11	FLEXIBLE FLAT CABLE 25P(C)/30P	CN3804(B)-CAMERA(1)-CN6200(B)-CN1002(LD)(1)
2	1-010-653-11	FLEXIBLE FLAT CABLE 14P	CN6802(B)-CN1200(ONT)(1)
3	1-014-870-11	FLEXIBLE FLAT CABLE 20P/25P	CN103(H)-CN1200(B)-CN3803(B)-BT(1)
4	1-010-661-11	FLEXIBLE FLAT CABLE 41P(B-ONT)	CN6801(B)-CN2201(ONT)(1)
5	1-010-662-11	FLEXIBLE FLAT CABLE 51P(B-ONT)	CN6800(B)-CN2200(ONT)(1)
6	1-014-880-11	FLEXIBLE FLAT CABLE 51P (OT1)	CN2400(ONT2)-J102(TCON)(1)
7	1-014-881-11	FLEXIBLE FLAT CABLE 51P (OT2)	CN2401(ONT2)-J103(TCON)(1)
8	1-014-882-11	FLEXIBLE FLAT CABLE 51P (OT3)	CN2600(ONT2)-J104(TCON)(1)
9	1-014-883-11	FLEXIBLE FLAT CABLE 51P (OT4)	CN2601(ONT2)-J105(TCON)(1)
10	1-014-912-11	CONNECTOR ASSY 20P	CN6402(PSU)-J101(TCON)(1)
11	1-014-915-11	HARNESS ASSY (SP)	CN6604(B)-SP-CN6606(B)(1)
12	1-014-913-11	CONNECTOR ASSY 28P (PWR1)	CN800(B)-CN6401(PSU)-CN401(ONT2)(1)
13	1-014-914-11	CONNECTOR ASSY 28P (PWR2)	CN6403(PSU)-CN6601(GP1)-CN6602(GP1)-CN6601(GP2)-CN1000(LD)-CN1001(LD)(1)
14	1-014-319-11	CONNECTOR ASSY 2P (PWR3GSAC)	CN6102(GS)-CN6101(GF)(1)
15	1-014-320-11	CONNECTOR ASSY 4P (PWR4GSPRI)	CN6103(GS)-CN002(GF)(1)
16	1-014-321-11	CONNECTOR ASSY 8P (PWR5GPAC)	CN6104(GP1)-CN004(GF)-CN6104(GP2)(1)

SECTION 2: XR-85Z9K**2-4. EXPLODED VIEW AND PART LIST****OTHER PARTS**

PART NO.	DESCRIPTION	UCM	REMARKS
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	-
4-462-871-03	BAG, SCREW A (CCT)	•	Including SCREW, +PSW M5X12 (Qty 4)
4-262-708-04	CLAMPER, CABLE	•	-
 1-836-883-12	POWER-SUPPLY CORD	•	-
1-013-685-22	REMOTE COMMANDER (RMF-TX900U)	•	-
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	-
*5-040-301-11	REFERENCE GUIDE	•	-
*5-040-302-11	SETUP GUIDE	•	-

SMART CORE

EXPLODED VIEW AND PART LIST



REF. NO	PART NO.	DESCRIPTION
1	5-032-671-01	COVER, TOP(MKY)
2	5-032-677-01	SILICON, MIC(MKY)
3	5-032-673-01	GUIDE, LIGHT ILM(MKY)
4	5-032-676-01	GUIDE, LIGHT RGB(MKY)
5	5-032-674-01	GUIDE, LIGHT OPT(MKY)
6	5-032-675-01	GUIDE, LIGHT LED(MKY)
7	A-5042-262-A	HR3_WW_RA_YI_OS MOUNT
8	5-032-672-01	OP, INNER(MKY)
9	5-032-678-01	COVER, BTM(WLF)

