

SERVICE MANUAL (TROUBLESHOOTING)

ORIGINAL MANUAL ISSUE DATE: 2023.12

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9-888-904-21

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-65X95K | XR-75X95K | XR-85X95K |
| XR-65X93L | XR-75X93L | XR-85X93L |
| XR-65X93CL | XR-75X93CL | |

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Self Diagnosis
Supported model

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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

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.

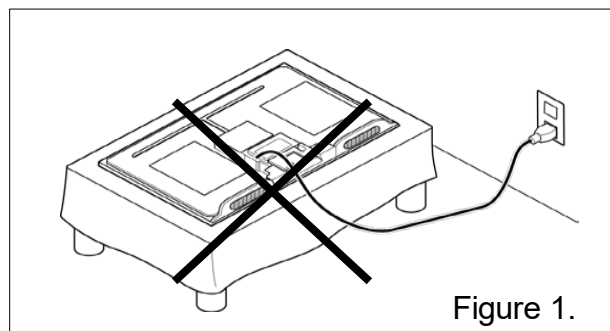
When repairing the LCD Panel, make sure you are grounded with a wrist band.

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.

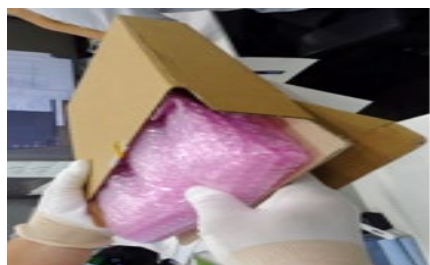


⑤ Do not stack up

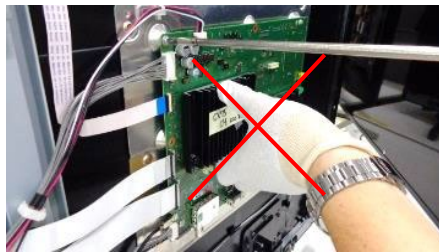


SAFETY NOTES

- 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

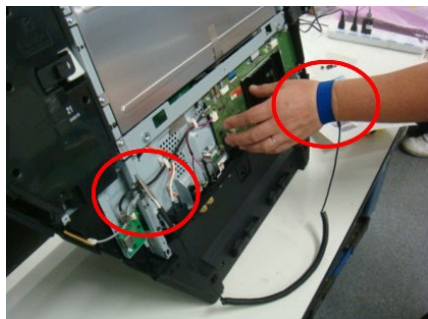


2) Caution for Board handling (ESD). Be sure to observe the following contents

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

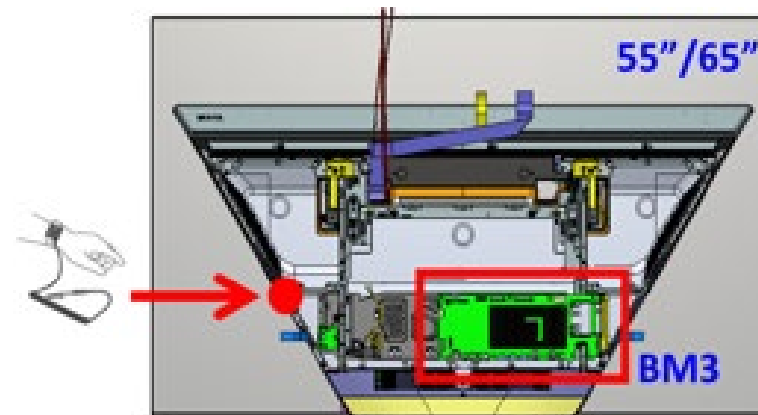


- ② Use ESD wrist-strap

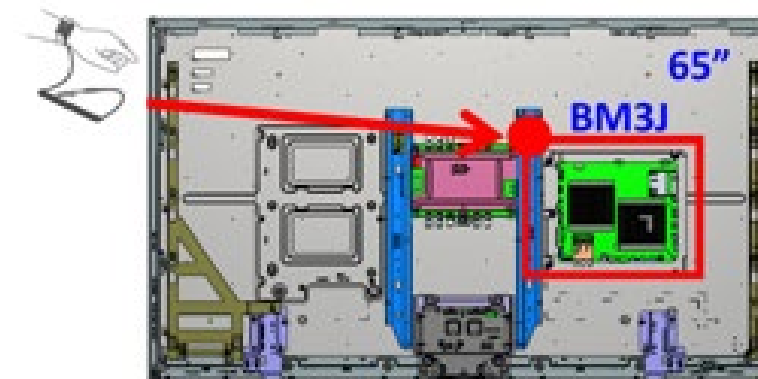


※Installation example of wrist-strap.

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.

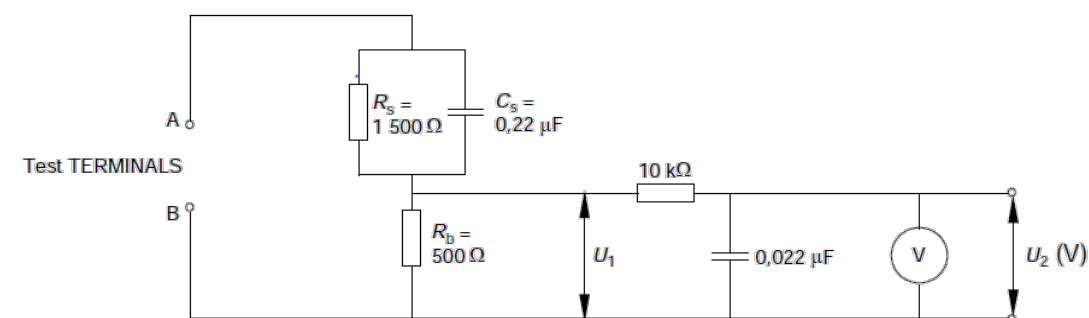


Figure 2 – Measuring network for Leakage Current

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).

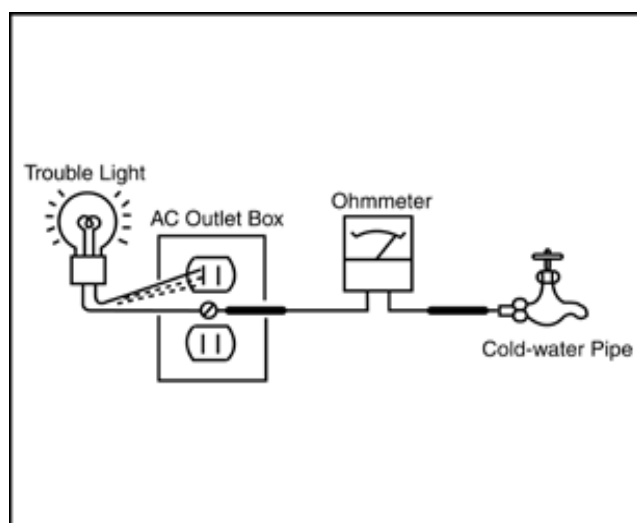


Figure 3. Checking for earth ground.

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

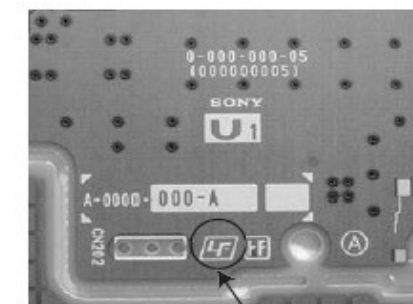


Figure 5: LF logo on circuit board

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

Self Diag. Quick Reference (LED blinking)

| Smart Core RED LED blinking count | | Detection Items |
|-----------------------------------|-----------------|---|
| 2x | MAIN_POWER | <B/G> Main 12V over voltage [MAIN_POWER] |
| 3x | DC_ALERT | <B/G> Main 5.0V failure [DC_ALERT] |
| | AUD_ERR | <B/S/G> Audio amp. protection [AUD_ERR] |
| 4x | LD_ERR | <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 | <i>BCM_ERR</i> | <P/T/G/B> <i>Panel ID EEPROM I2C No ACK (Also, panel power failure is a suspect) [P_ID_ERR]</i> |
| 6x | <i>P_ID_ERR</i> | <P/G/B> Backlight failure [BACKLIGHT_ERR] |
| 7x | BACKLIGHT_ERR | <P/B> Over temperature protection [TEMP_ERR] |
| 8x | TEMP_ERR | 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 Diagnosis Quick Reference (Not LED blinking) – Record Only

| Error Item | Detection Items |
|--------------|---|
| TU_DEMOD | None |
| T-CON_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 | None |
| 8KBE_COM_ERR | None |
| 8KSHV_ERR | None |
| AMB_ERR_I2C | <B/H> Ambient sensor I2C communication failure |

Notes :

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

SELF DIAGNOSIS FUNCTION

Retry Limitation By Remote / Power Key

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

→ Number of off/on action for
MAIN_POWER shutdown is recorded to
STDWN_OFFON_CNT_MAIN_POWER*2

Number of off/on action during the
error shutdown is recorded to
STDWN_OFFON_CNT*2

*1) If $STDWN_OFFON_CNT \leq STDWN_RTRY_LIMIT$, and $STDWN_OFFON_CNT_MAIN_POWER \leq STDWN_RTRY_LIMIT_MAINPOWR$, 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 – X95K

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 RF input | No video of Camera | No video all Inputs | No Remote Operation | Cannot connect to Wireless Network | No Audio | Smart Core no LED (Set is still alive) | Bluetooth / One Step Remote (OSR) can't connect | |
| Main Board | ▲ | ● | ■ | ■ | ■ | ● | ● | | ● | ▲ | | ● | | ▲ | | | | ▲ | ▲ | ● | ● | ▲ | ● | ▲ | ▲ | ▲ | ▲ | ▲ | ▲ |
| Power Board | ● | ▲ | ■ | ■ | ■ | | | | | | | | | | | | | ● | | | | | ▲ | | | ▲ | | | |
| Receiver Board | | | | | | | | | | | | | | ● | | | | ▲ | | | | | | ● | | ● | | | |
| Speaker | | ▲ | | | | | | | | | | | | | | | | | | | | | | | | ● | | | |
| Wi-fi & BT Module | | | | | | | | | | | | | | | | | | | | | | | | | ● | | | ● | |
| LD* Board | | | ▲ | | | | | | | | | | | | | | | | | | | | ▲ | | | | | | |
| V By One FFC | | | | ▲ | | | | | | ▲ | | | | | | | | | ▲ | | | | ▲ | | | | | | |
| Tcon | | | | ● | | | | | | ● | | | | | | | | | ▲ | | | | ■ | | | | | | |
| LCD Panel | | | ● | ▲ | ● | | | | | ■ | | | | | | | | | ● | | | | ■ | | | | | | |
| Camera (bundle or accessory) | | | | | | | | | | | | | | | | | | | | | | ● | | | | | | | |
| Problem | Power | Power | Panel | Panel (Communication) | Panel (Backlight) | TEMP | 4KBE | | | | | | | | | | | | | | | | | | | | | | |
| | | Audio | LD | Tcon | | | | | | | | | | | | | | | | | | | | | | | | | |

TROUBLESHOOTING

Triage Chart – X93L / X93CL

Before you make the service call:

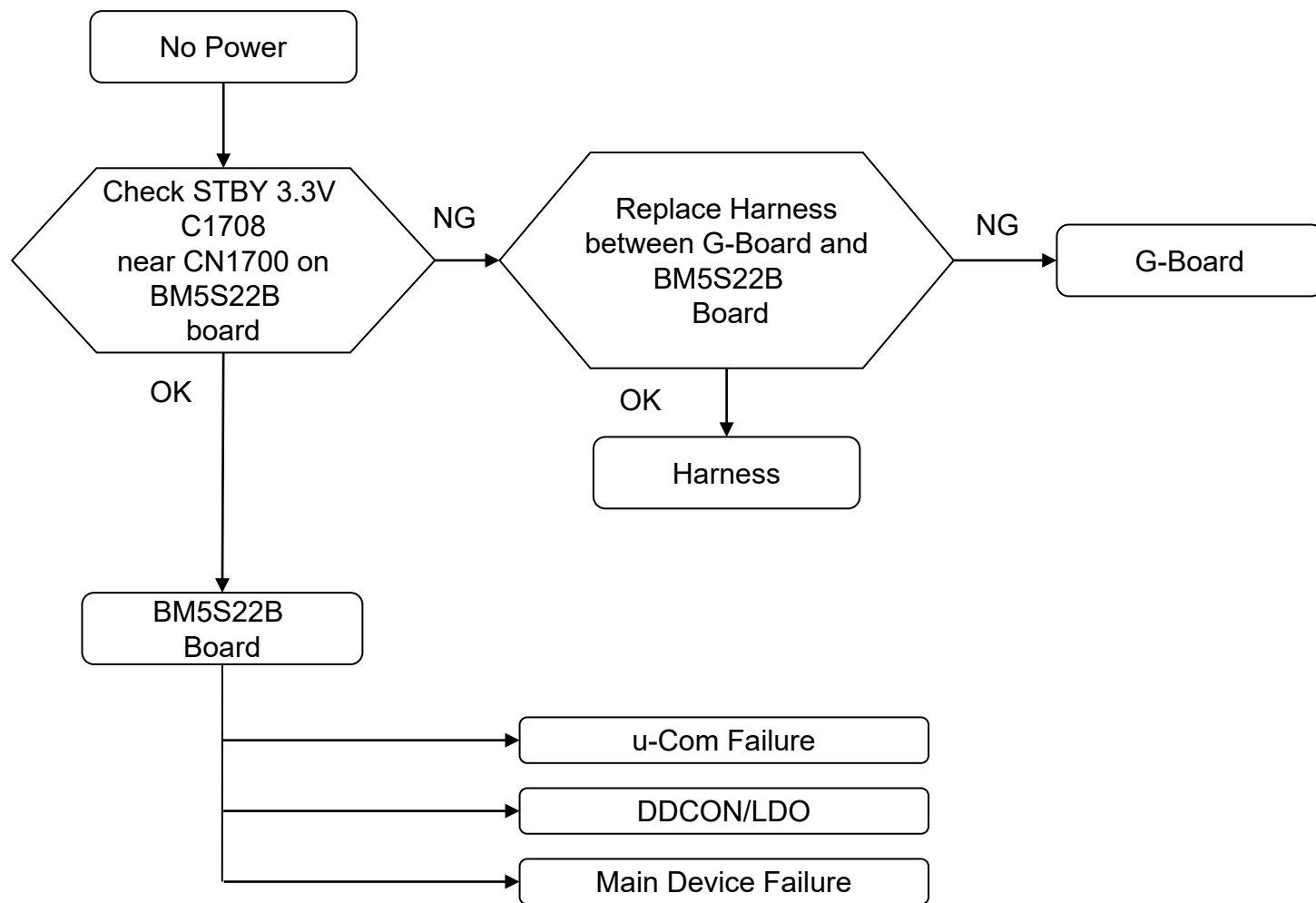
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|--------------------|---|-------|-------|-----------------------|-------------------|------|------|--|-------------|----------|-----------|-------------|--------------|--------------|--------------|--------------|-------------|--|----------------------------------|------------------------|-------------|--------------------|---------------------|---------------------|------------------------------------|------------|--|---|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | TU_DEMOD | TU_DEMO_I2C | TCON_ERR | FRCTC_I2C | AUD_ERR_I2C | 4KPQ_ERR_I2C | TEMP_ERR_I2C | EARC_ERR_I2C | 8KBE_COM_ERR | AMB_ERR_I2C | No White Power LED & does not respond to remote (Dead Set) | Stationary colored lines or dots | No video One of Inputs | NO RF input | No video of Camera | No video all Inputs | No Remote Operation | Cannot connect to Wireless Network | No Audio | Smart Core no LED (Set is still alive) | Bluetooth / One Step Remote (OSR) can't connect |
| Main Board | ▲ | ● | ■ | ■ | ■ | ● | ● | | | ▲ | | ● | | ▲ | | | ▲ | ▲ | ▲ | ● | ● | ▲ | ● | ▲ | ▲ | ● | ▲ | ▲ |
| Power Board | ● | ▲ | ■ | ■ | ■ | | | | | | | | | | | | | ● | | | | | ▲ | | | ▲ | | |
| Receiver Board | | | | | | | | | | | | | | ● | | | ● | ▲ | | | | | | ● | | ● | | |
| Speaker | | ▲ | | | | | | | | | | | | | | | | | | | | | | | | ● | | |
| Wi-fi & BT Module | | | | | | | | | | | | | | | | | | | | | | | | | ● | | | ● |
| LD* Board | | | ▲ | | ▲ | | | | | | | | | | | | | | | | | | ▲ | | | | | |
| V By One FFC | | | | ▲ | | | | | | ▲ | | | | | | | | | ▲ | | | | ▲ | | | | | |
| Tcon | | | | ● | | | | | | ● | | | | | | | | | ▲ | | | | ■ | | | | | |
| LCD Panel | | | ● | ▲ | ● | ▲ | | | | ■ | | | | | | | | | ● | | | | ■ | | | | | |
| Camera (accessory) | | | | | | | | | | | | | | | | | | | | | | ● | | | | | | |
| Problem | Power | Power | Panel | Panel (Communication) | Panel (Backlight) | TEMP | 4KBE | | | | | | | | | | | | | | | | | | | | | |
| | | Audio | LD | Tcon | | | | | | | | | | | | | | | | | | | | | | | | |

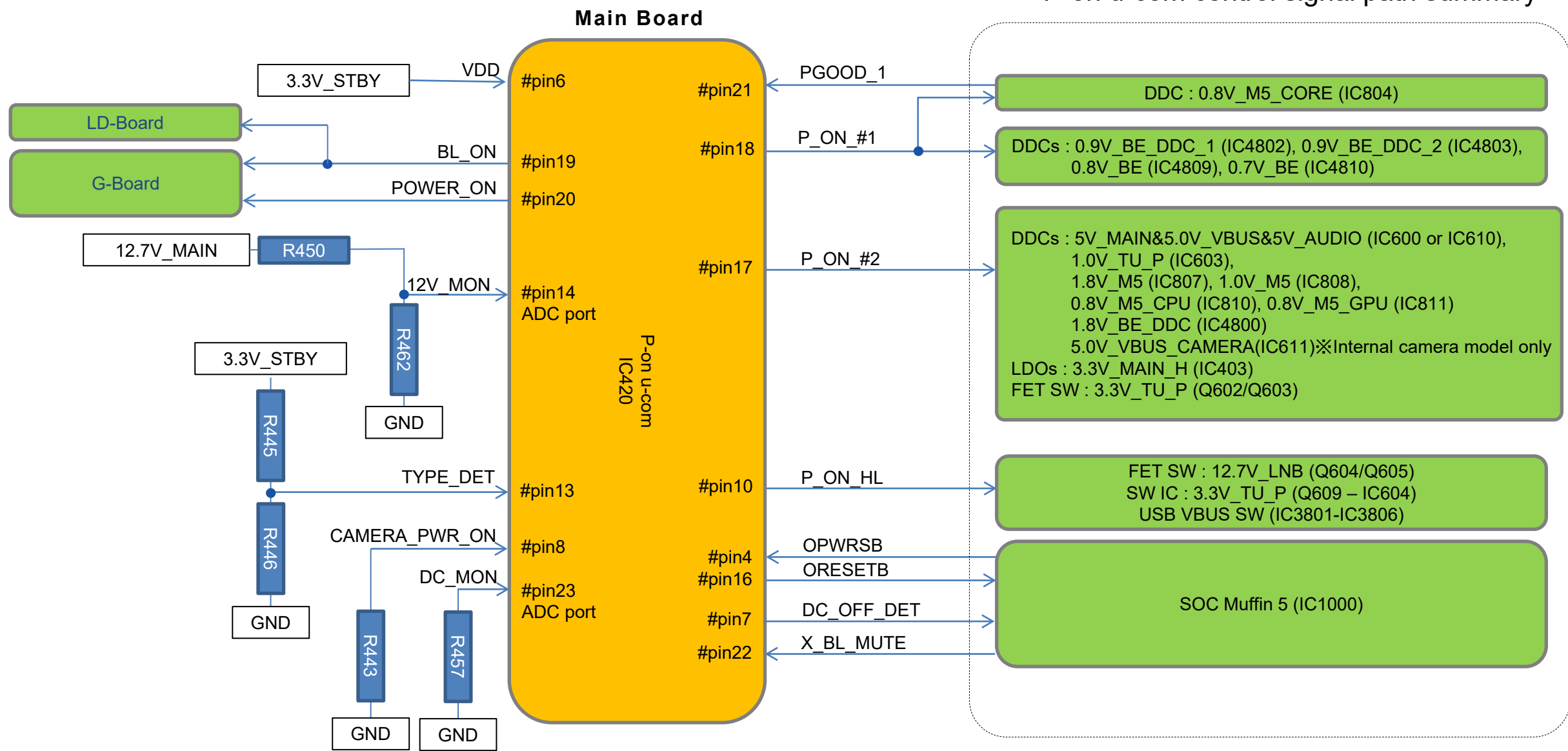
TROUBLESHOOTING

1.0 No Power



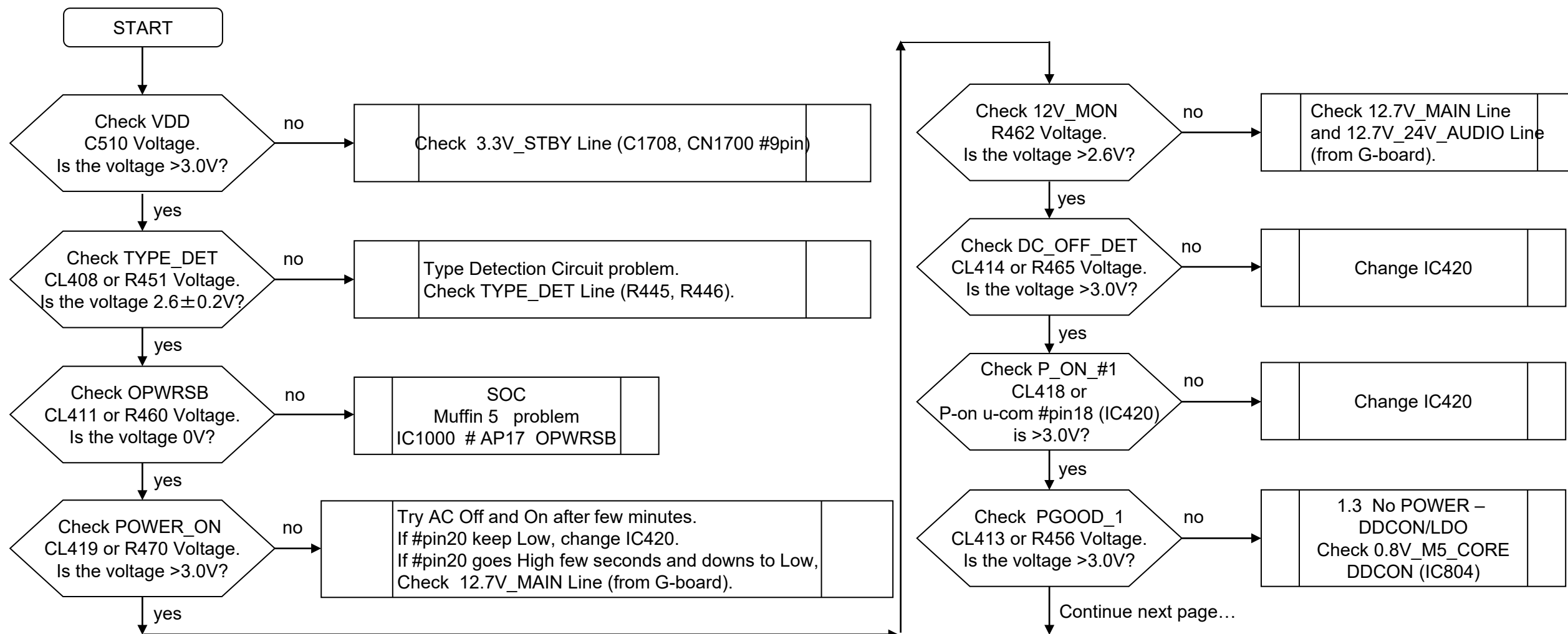
TROUBLESHOOTING

1.2 No Power U – com Failure



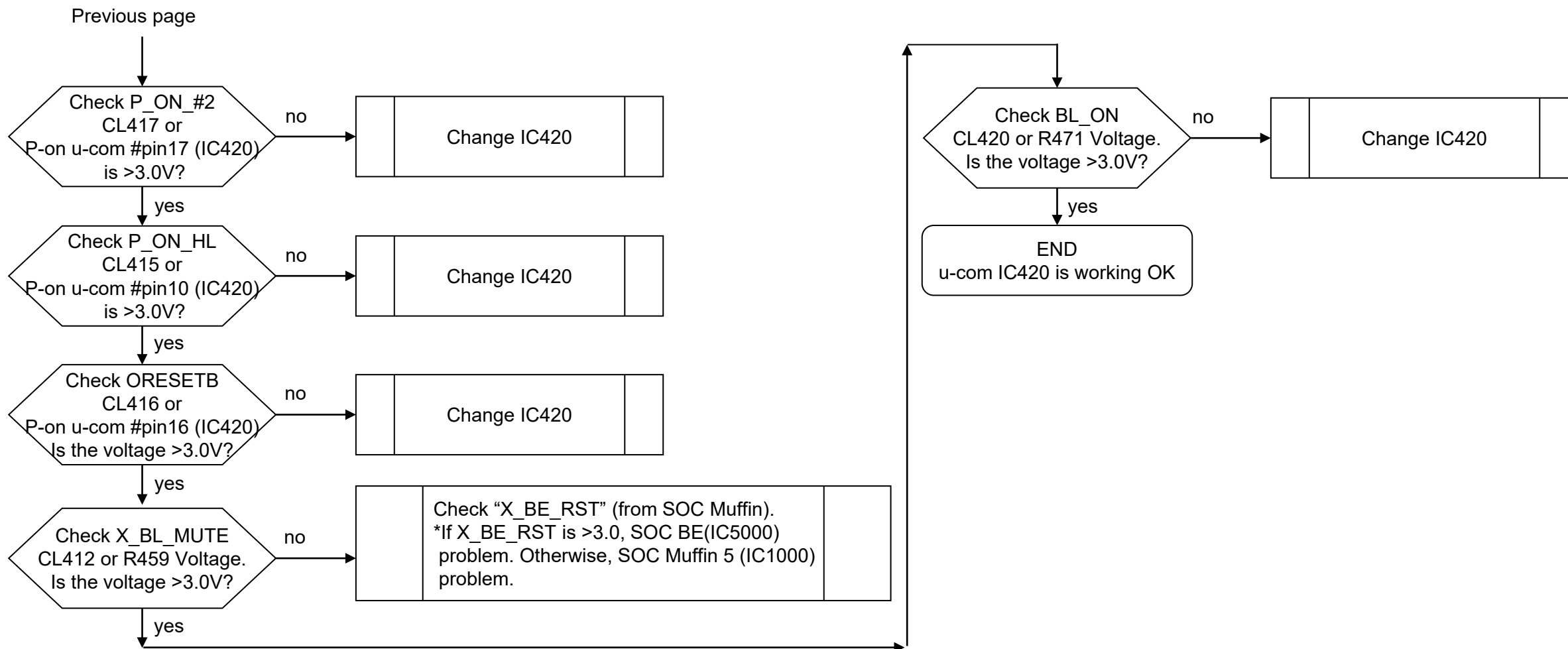
TROUBLESHOOTING

1.2 No Power U – com Failure



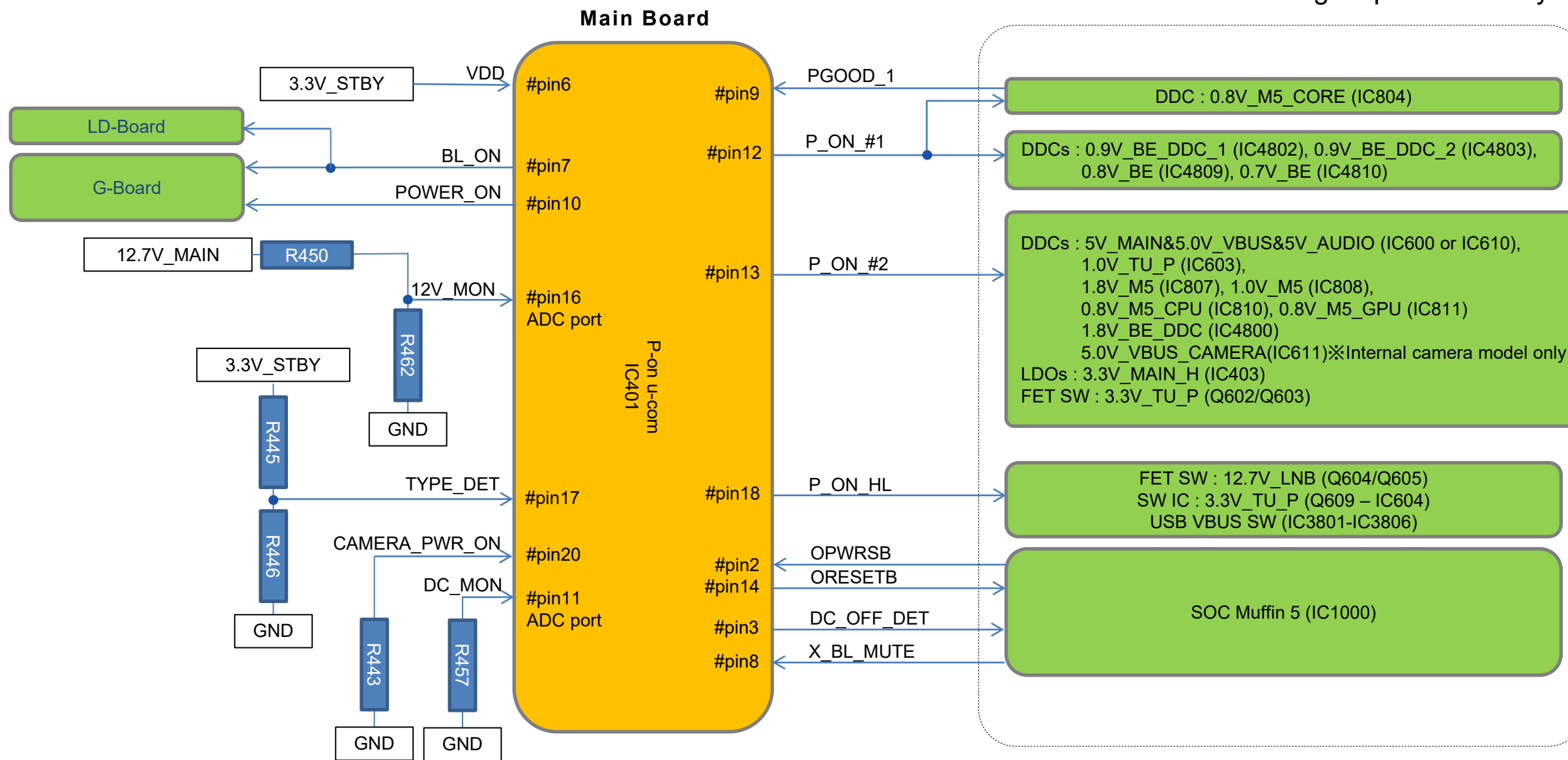
TROUBLESHOOTING

1.2 No Power U – com Failure



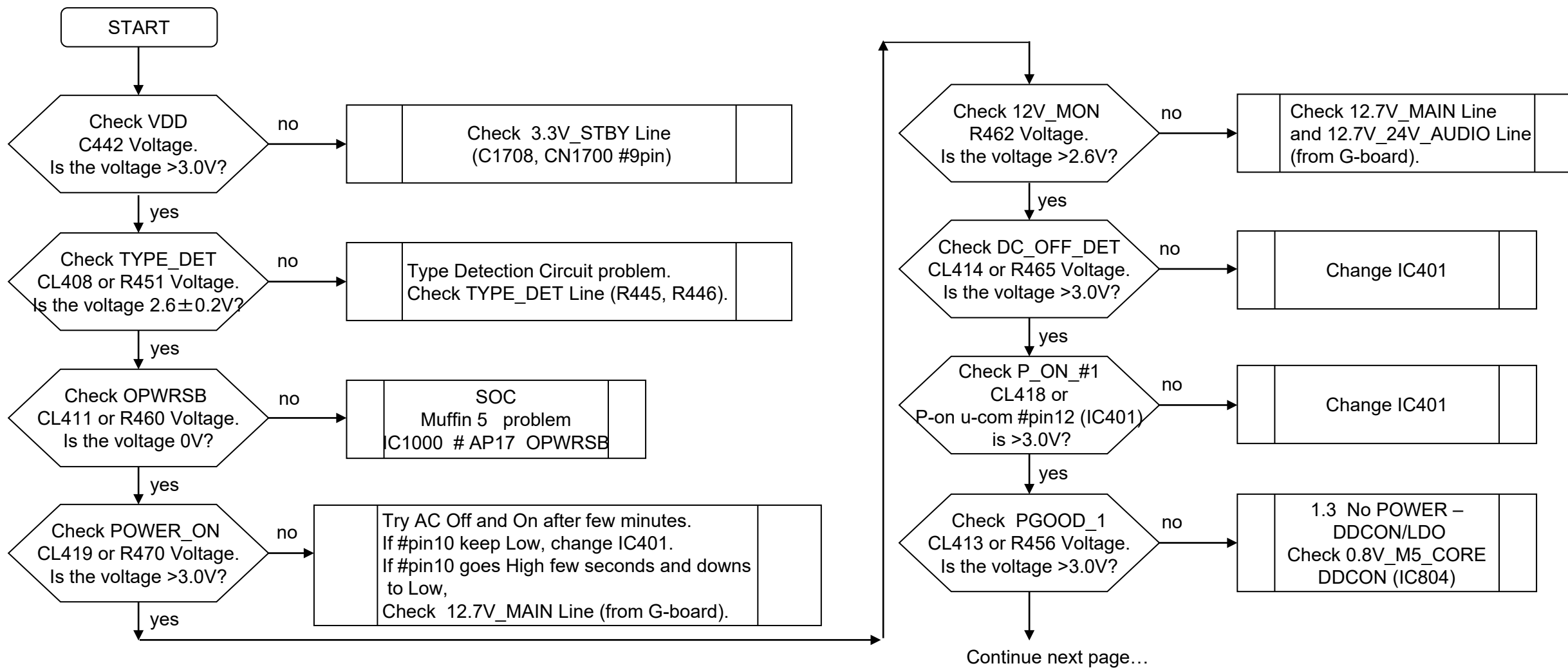
TROUBLESHOOTING

1.2 No Power U – com Failure



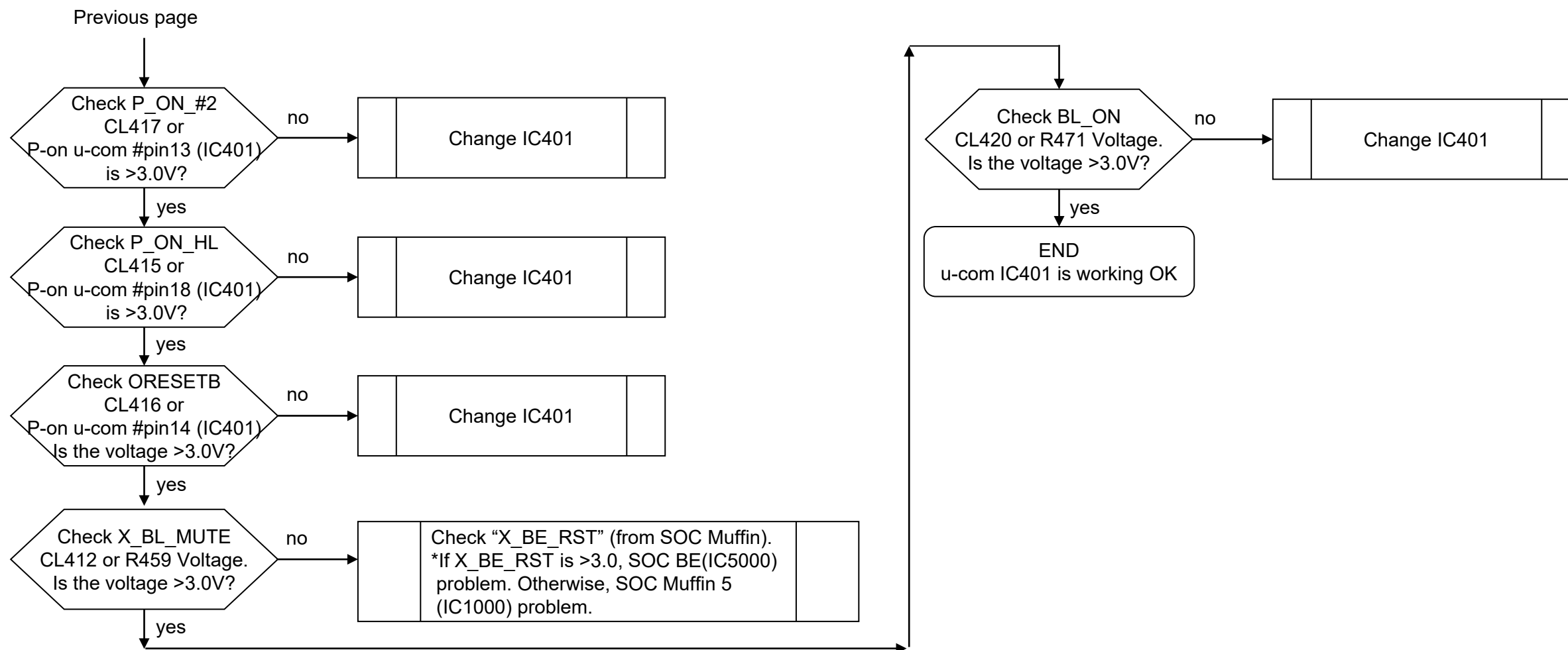
TROUBLESHOOTING

1.2 No Power U – com Failure



TROUBLESHOOTING

1.2 No Power U – com Failure



TROUBLESHOOTING

1.3 No Power – DDCON / LDO

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

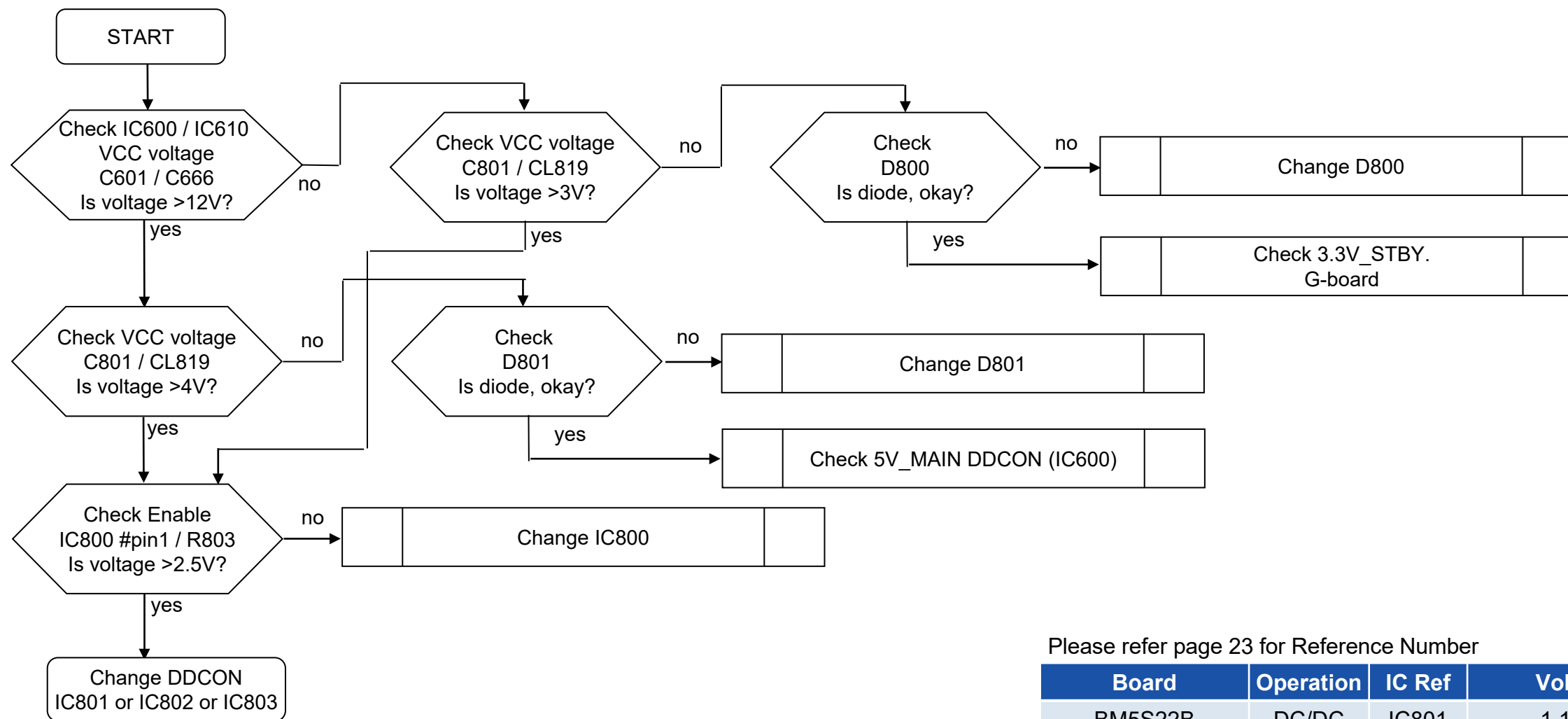
P_ON_#2 : P-on u-com IC401 #pin13

Check item summary

| Board | Operation | IC Ref | Voltage supply | Output ref. | Enable pin | Enable source | Fuse | Vcc ref. |
|---------|-----------|----------------|----------------------|-------------------------|---------------------------------|---|-----------------|--------------|
| BM5S22B | DC/DC | IC418 or IC419 | 5.0V_STBY_H | C508 or C514 /JL1212 | R557 | R557(3.3V_STBY) | - | C505 or C511 |
| | LDO | IC403 | 3.3V_MAIN_H | C416/CL402 | R413(shorted) | P_ON_#2 | - | C415 |
| | DC/DC | IC600 or IC610 | 5V_MAIN/5V_AUDIO | C610 or C673/JL601 | R600 or R670/ CL604 or CL615 | P_ON_#2 | F600 or F602 | C601 or C666 |
| | DC/DC | IC601 | 3.3V_MAIN/3.3V_AUDIO | C619/JL603 | R658/CL605 | R658(1.8V_BE_DDC) | F601 | C618 |
| | DC/DC | IC603 | 1.0V_TU_P | C630/CL607 | R631(shorted)/JL607 | P_ON_#2 or IC1000 #AL18 (EWS_PWR_ON) | - | C628 |
| | DC/DC | IC611 | 5.0V_VBUS_CAMERA | C682/JL635 | R681/CL616 | P_ON_#2 | F603 | C681 |
| | DC/DC | IC801 | 1.1V_M5_DDR | C806/JL801 | R913(shorted) | R804/R907 (3.3V_STBY) | - | C801/CL819 |
| | DC/DC | IC802 | 0.9V_M5_STBY | C809/CL803 | R908(shorted) | R804/R907 (3.3V_STBY) | - | C807/CL822 |
| | DC/DC | IC803 | 1.8V_STBY | C812/CL811 | R822(shorted) | R804 (3.3V_STBY) | - | C810/CL824 |
| | DC/DC | IC804 | 0.8V_M5_CORE | C846/JL803 | R849(shorted)/CL816 | P_ON_#1 | F802 | C831 |
| | LDO | IC806 | 1.8V_M5_ET_STBY | C818/JL808 | R832(shorted) | IC1000 #AN19 (ETHER_PWR_EN) | - | C817/CL826 |
| | DC/DC | IC807 | 1.8V_M5 | C823/JL811 | R833(shorted)/CL827 | P_ON_#2 | F800 | C822 |
| | DC/DC | IC808 | 1.0V_M5 | C829/JL813 | R839(shorted)/CL828 | P_ON_#2 | F801 | C828 |
| | LDO | IC809 | 3.3V_M5_STBY | C816/CL831 | R917 | R917(3.3V_STBY) | - | C815 |
| | DC/DC | IC810 | 0.8V_M5_CPU | C861/JL816 | R914/CL829 | P_ON_#2 | F803 | C855 |
| | DC/DC | IC811 | 0.8V_M5_GPU | C874/JL818 | R915/CL830 | P_ON_#2 | F804 | C868 |
| | DC/DC | IC4800 | 1.8V_BE_DDC | C4805/JL4801 | R4801(shorted)/CL4816 | P_ON_#2 | F4800 | C4803 |
| | DC/DC | IC4801 | 1.1V_BE | C4813/JL4803 | R4907/CL4817 | R4907(1.8V_BE_DDC) | F4801 | C4812 |
| | DC/DC | IC4802 | 0.9V_BE_DDC_1 | C4820/JL4805 | R4819(shorted)/CL4818 | P_ON_#1 | F4802 | C4819 |
| | DC/DC | IC4803 | 0.9V_BE_DDC_2 | C4828/JL4807 | R4827(shorted)/CL4819 | P_ON_#1 | F4803 | C4827 |
| DC/DC | IC4809 | 0.8V_BE | C4860/JL4819 | R4849(shorted)/CL4808 | P_ON_#1 | F4804 | C4845 | |
| DC/DC | IC4810 | 0.7V_BE | C4878/JL4821 | R4865(shorted)/CL4811 | P_ON_#1 | F4805 | C4863 | |

TROUBLESHOOTING

1.3 No Power – DDCONs check

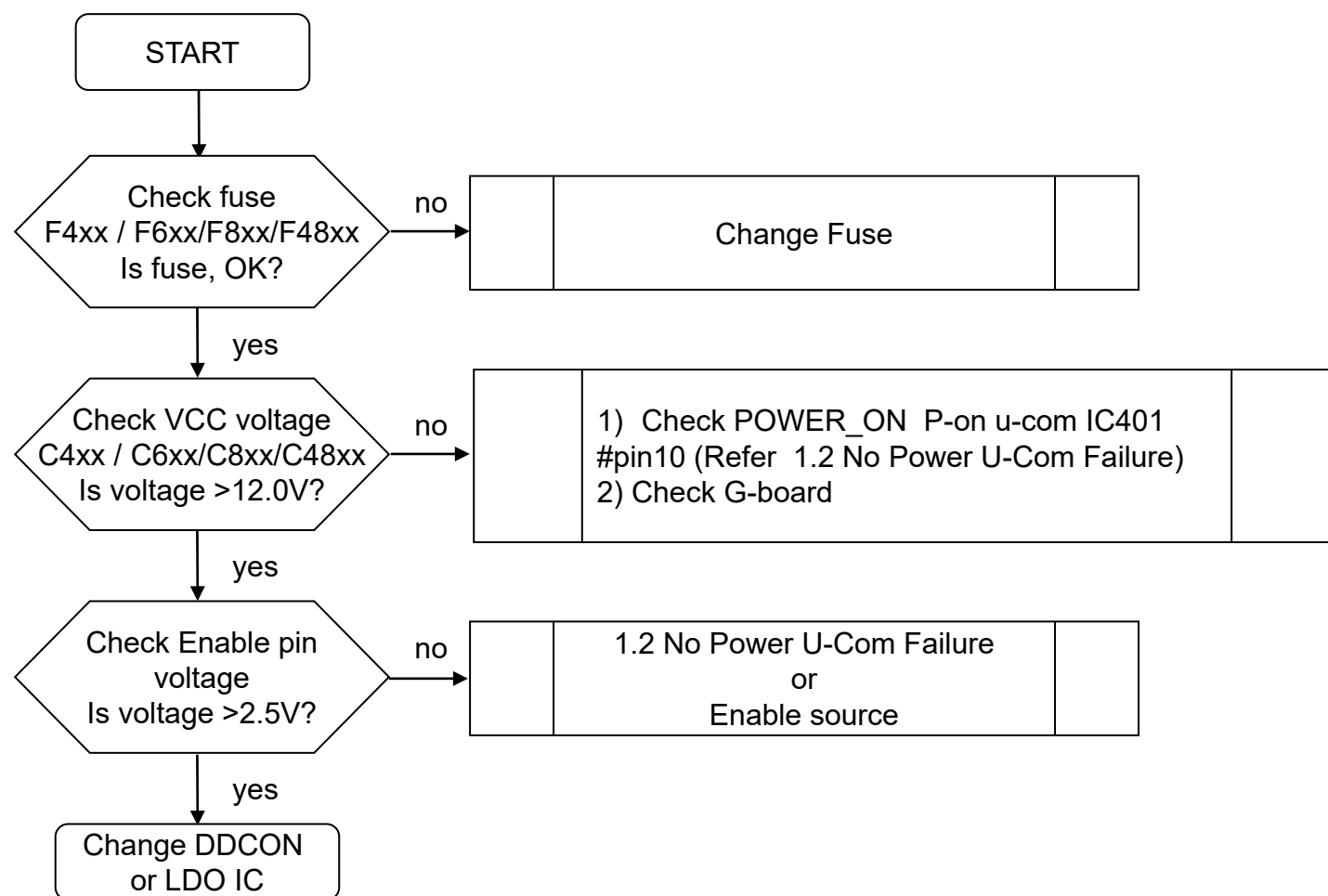


Please refer page 23 for Reference Number

| Board | Operation | IC Ref | Voltage supply |
|---------|-----------|--------|----------------|
| BM5S22B | DC/DC | IC801 | 1.1V_M5_DDR |
| BM5S22B | DC/DC | IC802 | 0.9V_M5_STBY |
| BM5S22B | DC/DC | IC803 | 1.8V_STBY |

TROUBLESHOOTING

1.3 No Power – DDCONs & LDO check



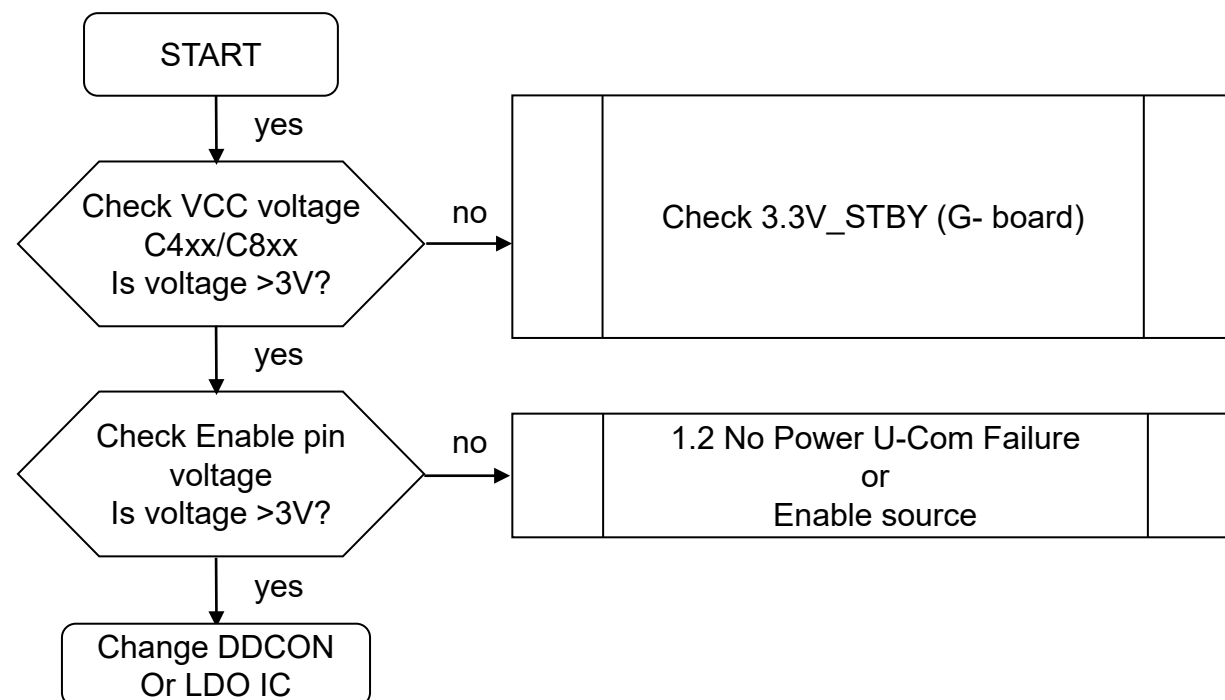
Please refer page 23 for Reference Number

| Board | Operation | IC Ref | Voltage supply |
|---------|-----------|----------------------|----------------------|
| BM5S22B | DC/DC | IC600 or IC610 | 5V_MAIN/5V_AUDIO |
| BM5S22B | DC/DC | IC601 | 3.3V_MAIN/3.3V_AUDIO |
| BM5S22B | DC/DC | IC804 | 0.8V_M5_CORE |
| BM5S22B | DC/DC | IC807 | 1.8V_M5 |
| BM5S22B | DC/DC | IC808 | 1.0V_M5 |
| BM5S22B | DC/DC | IC810 | 0.8V_M5_CPU |
| BM5S22B | DC/DC | IC811 | 0.8V_M5_GPU |

| Board | Operation | IC Ref | Voltage supply |
|---------|-----------|--------|----------------|
| BM5S22B | DC/DC | IC4800 | 1.8V_BE_DDC |
| BM5S22B | DC/DC | IC4801 | 1.1V_BE |
| BM5S22B | DC/DC | IC4802 | 0.9V_BE_DDC_1 |
| BM5S22B | DC/DC | IC4803 | 0.9V_BE_DDC_2 |
| BM5S22B | DC/DC | IC4809 | 0.8V_BE |
| BM5S22B | DC/DC | IC4810 | 0.7V_BE |

TROUBLESHOOTING

1.3 No Power – DDCONs & LDO check

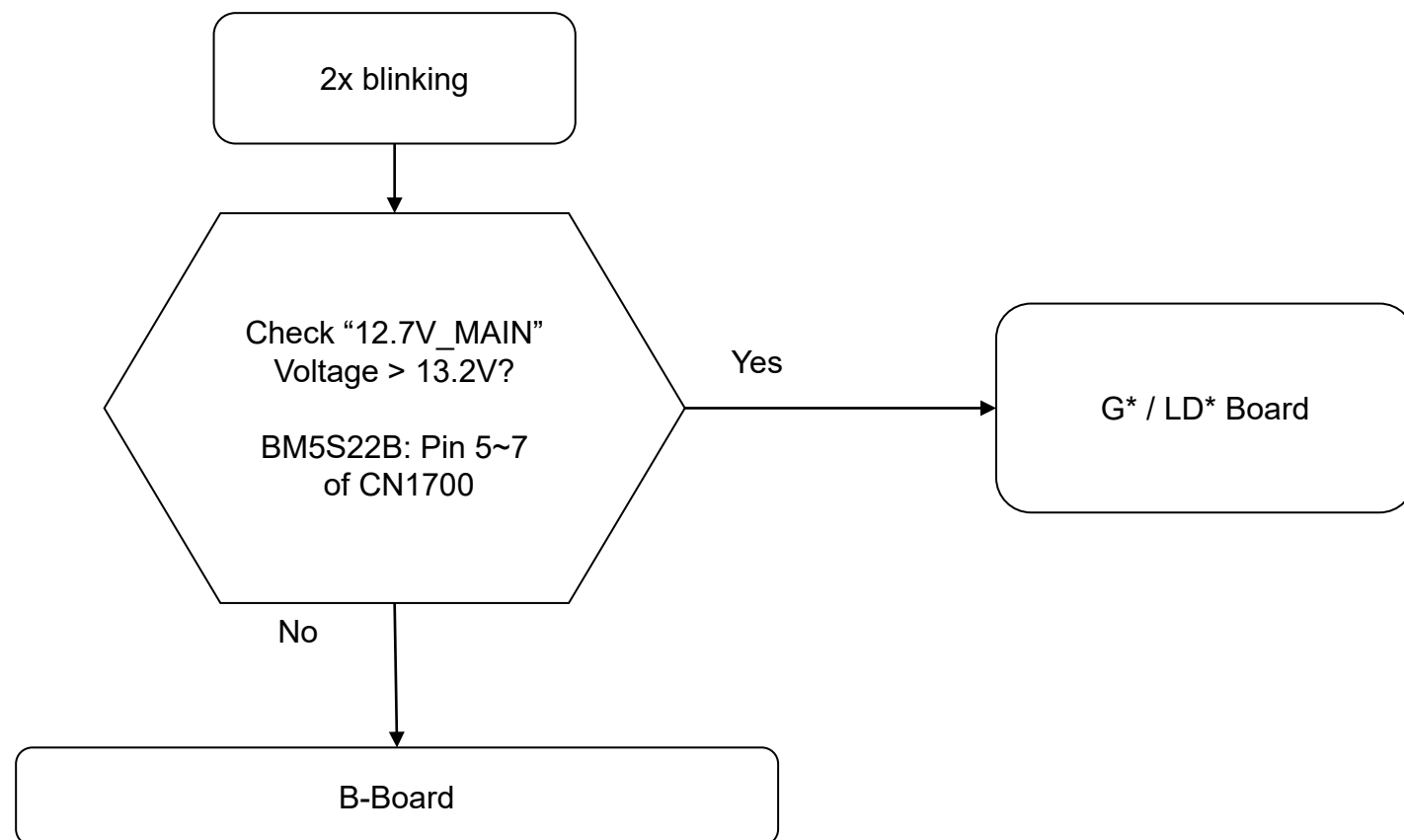


Please refer page 23 for Reference Number

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

TROUBLESHOOTING

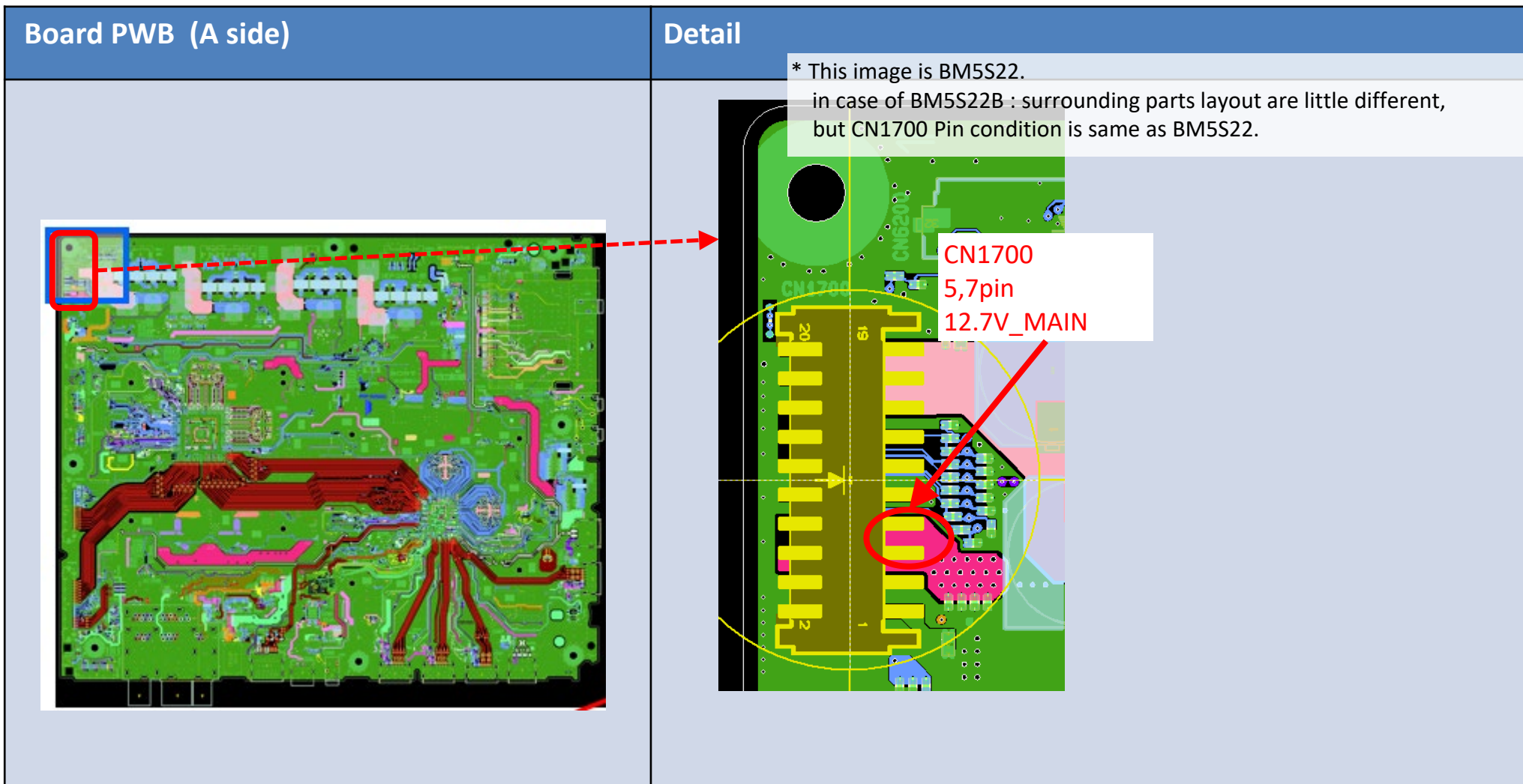
2.0 2x LED Blinking – Main Power Error



TROUBLESHOOTING

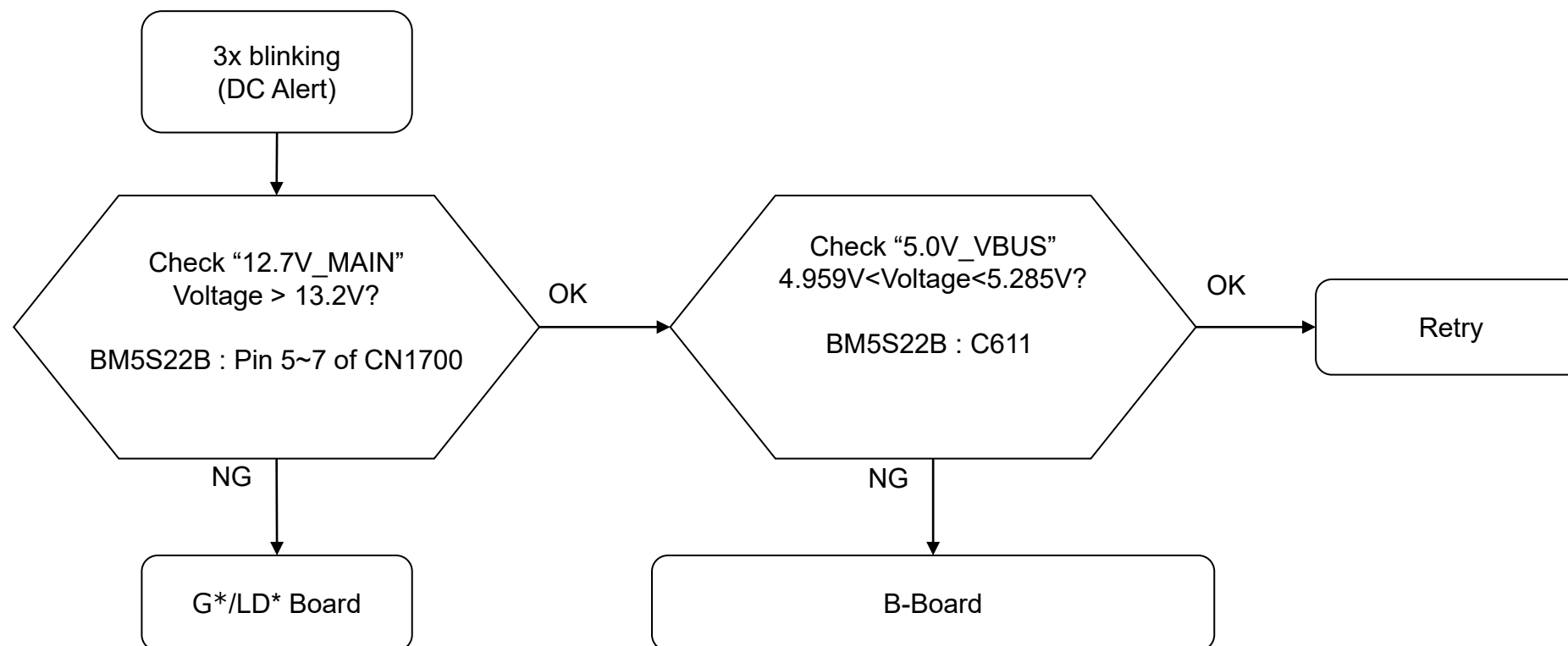
2.0 2x LED Blinking – Main Power Error

Check Point for BM5S22B



TROUBLESHOOTING

2.1 3x LED Blinking – DC Alert


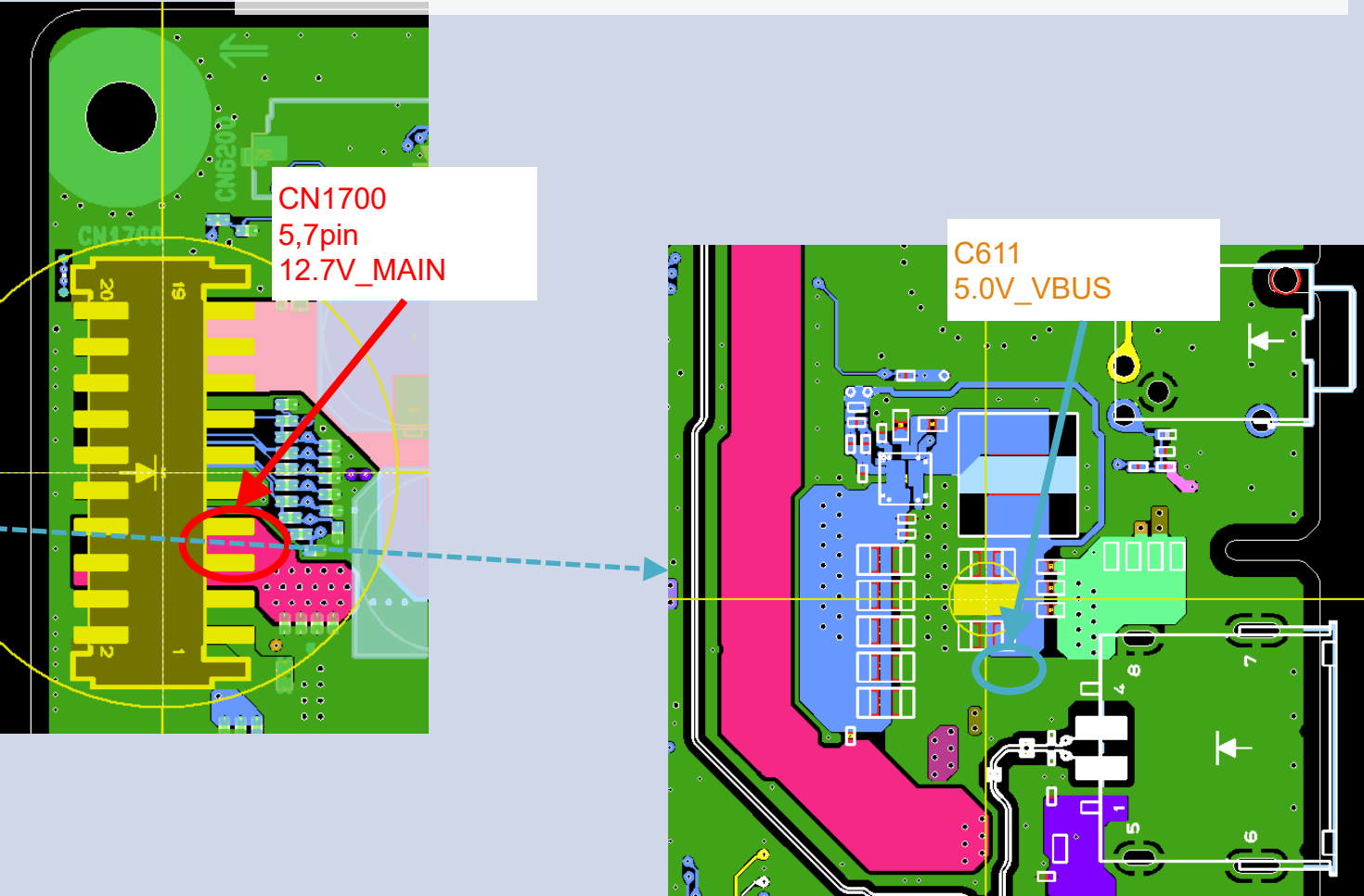


| Error Item | Number of STBY LED Blinking | Description |
|------------|-----------------------------|-----------------------|
| DC_ALERT | 3 | Main 5V power failure |
| AUD_ERR | 3 | Audio amp. protection |

TROUBLESHOOTING

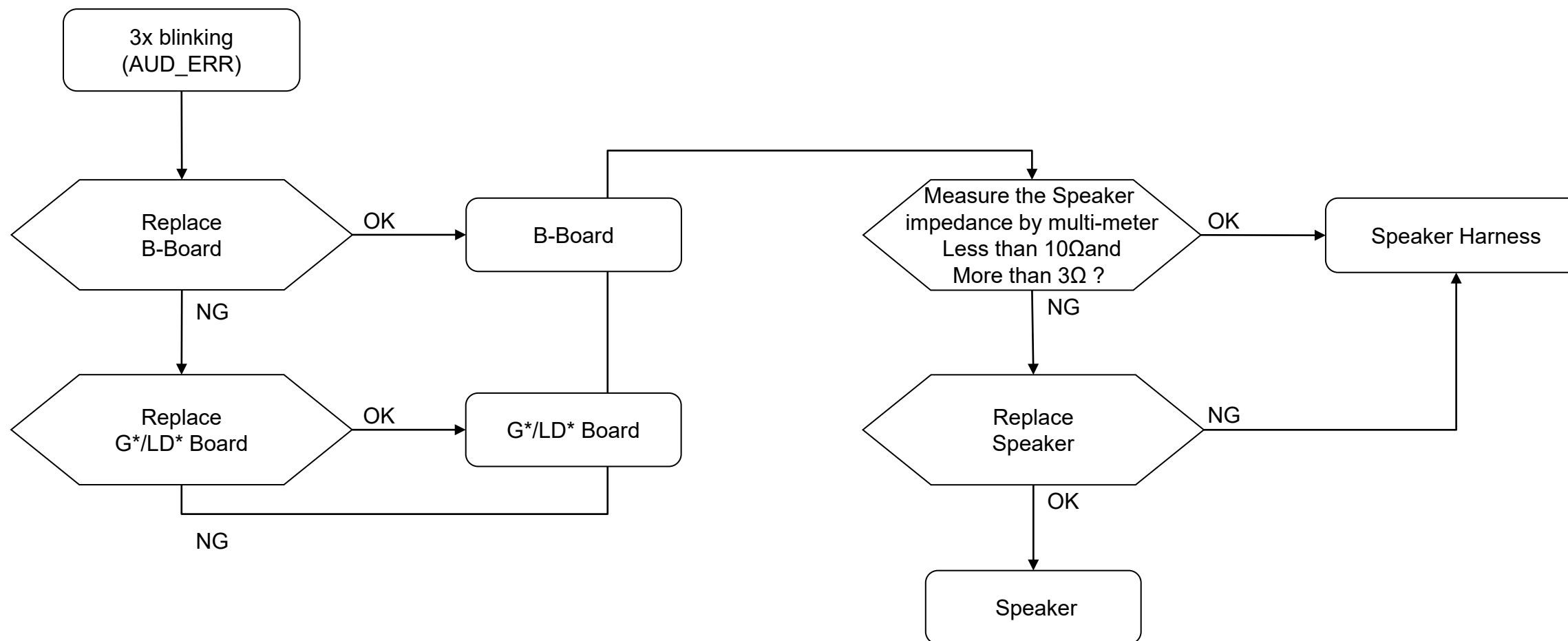
2.1 3x LED Blinking – DC Alert

Check Point for BM5S22B

| Board PWB (A side) | Detail |
|--|---|
|  | <p data-bbox="1360 352 2556 485">* This image is BM5S22. in case of BM5S22B : surrounding parts layout are little different, but CN1700 Pin condition is same as BM5S22.</p>  <p data-bbox="1397 655 1685 794">CN1700 5,7pin 12.7V_MAIN</p> <p data-bbox="2123 708 2415 815">C611 5.0V_VBUS</p> |

TROUBLESHOOTING

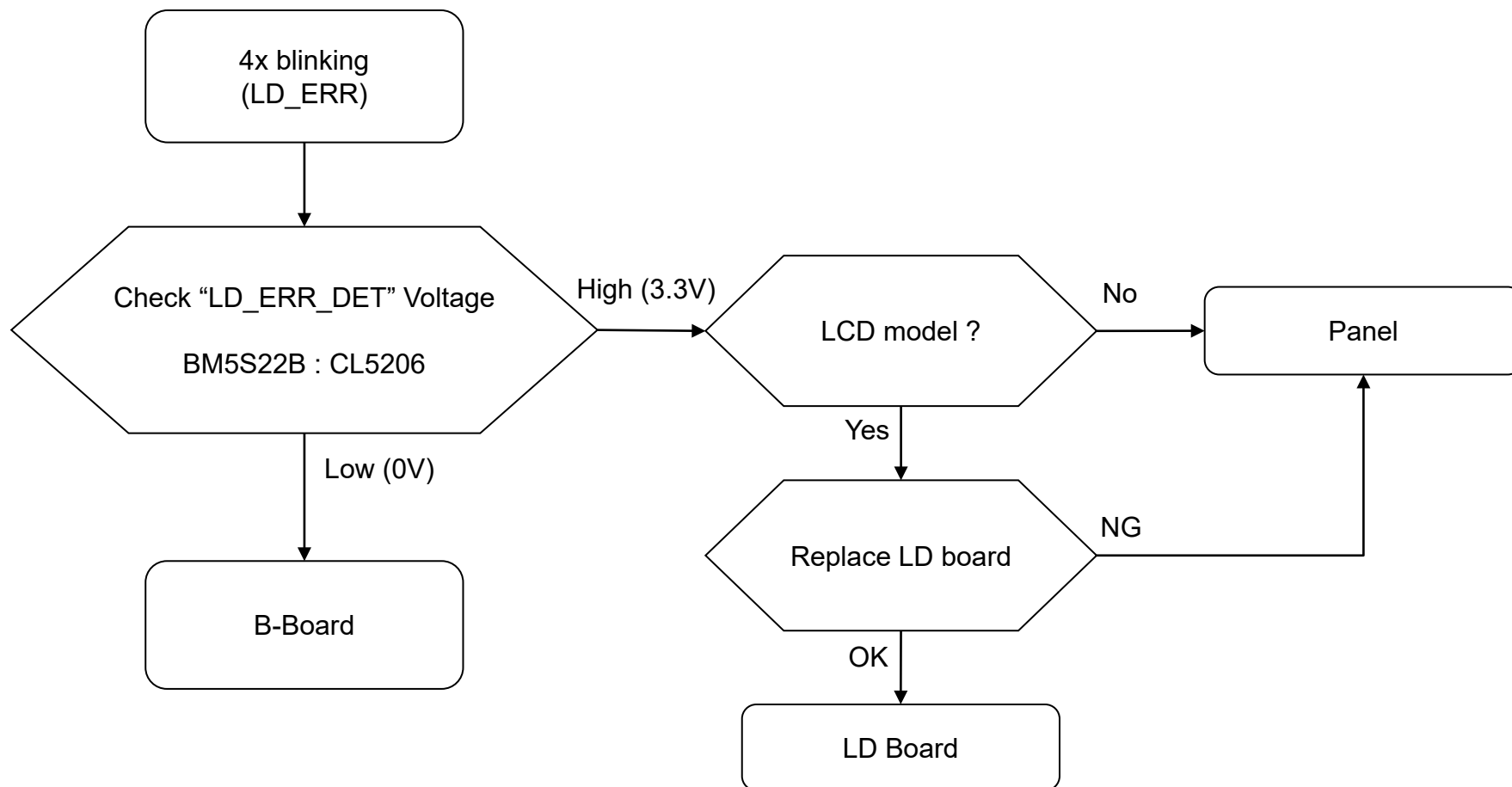
2.2 3x LED Blinking – AUD_ERR



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

TROUBLESHOOTING

2.3 4x LED Blinking – LD_ERR

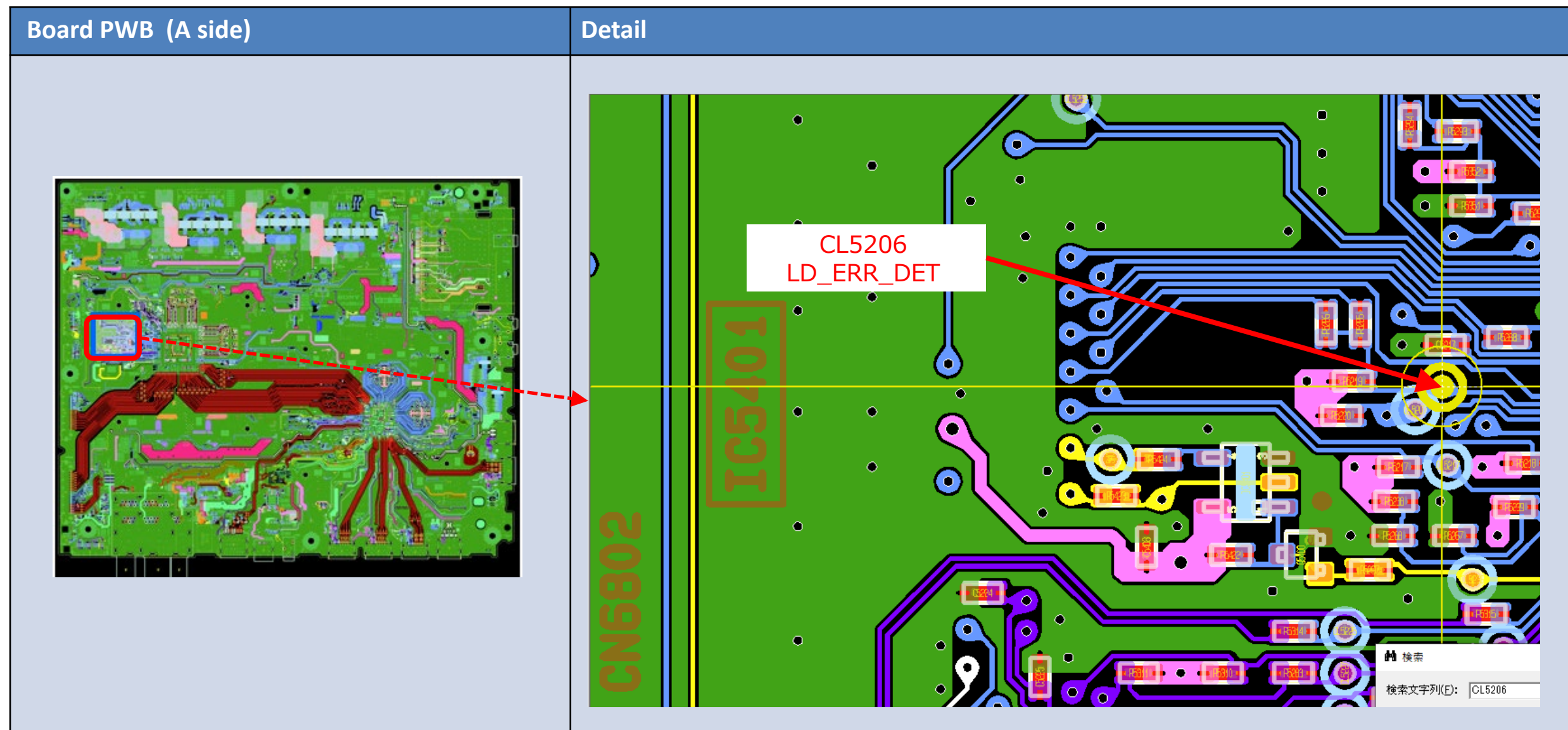


| Error Item | Number of STBY LED Blinking | Description | |
|------------|-----------------------------|-------------|--|
| LD_ERR | 4 | LCD | LED driver failure/LED voltage protection |
| | | OLED | TCON internal or I2C communication failure |

TROUBLESHOOTING

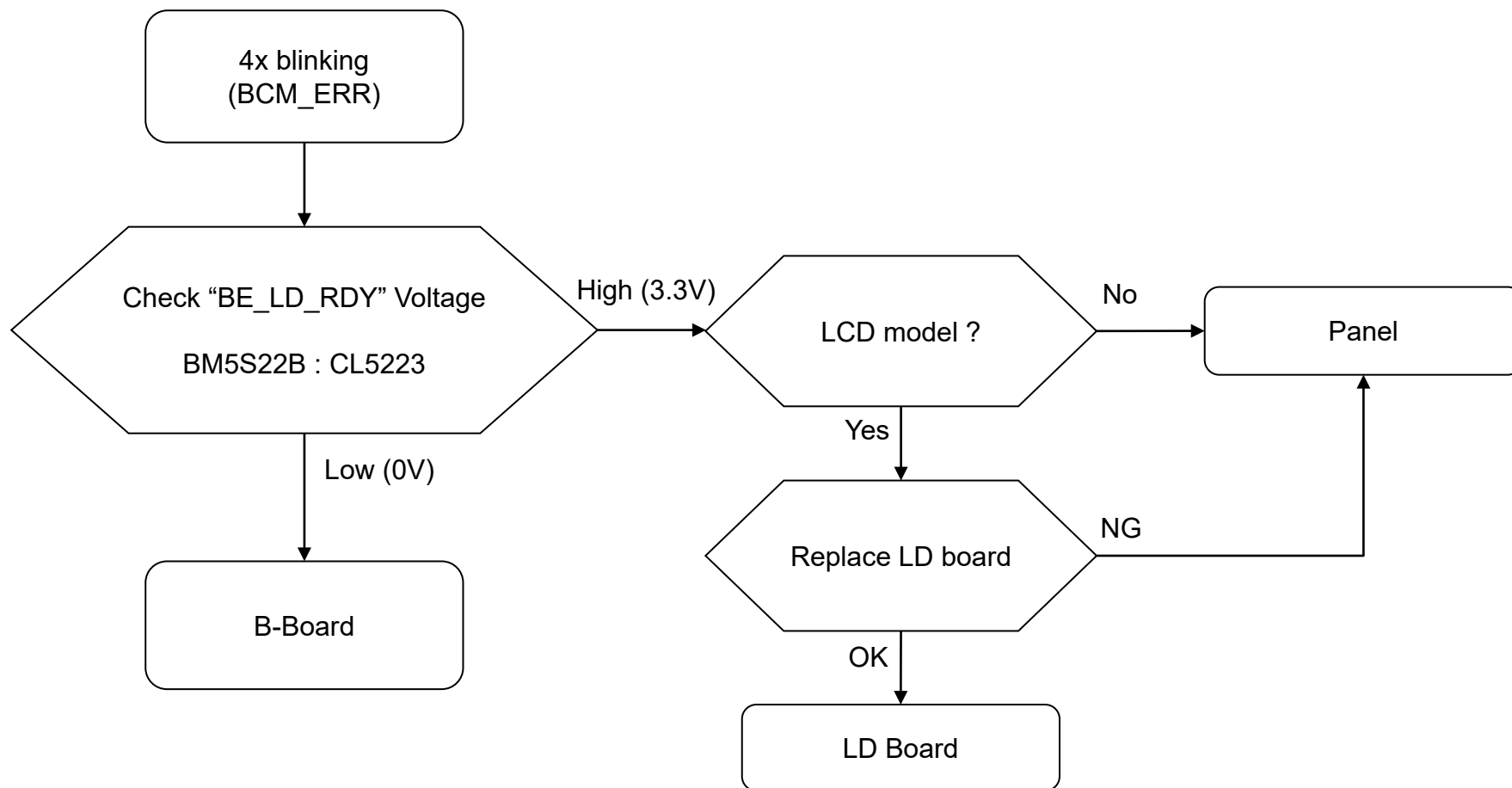
2.3 4x LED Blinking – LD_ERR

Check Point for BM5S22B



TROUBLESHOOTING

2.4 4x LED Blinking – BCM_ERR


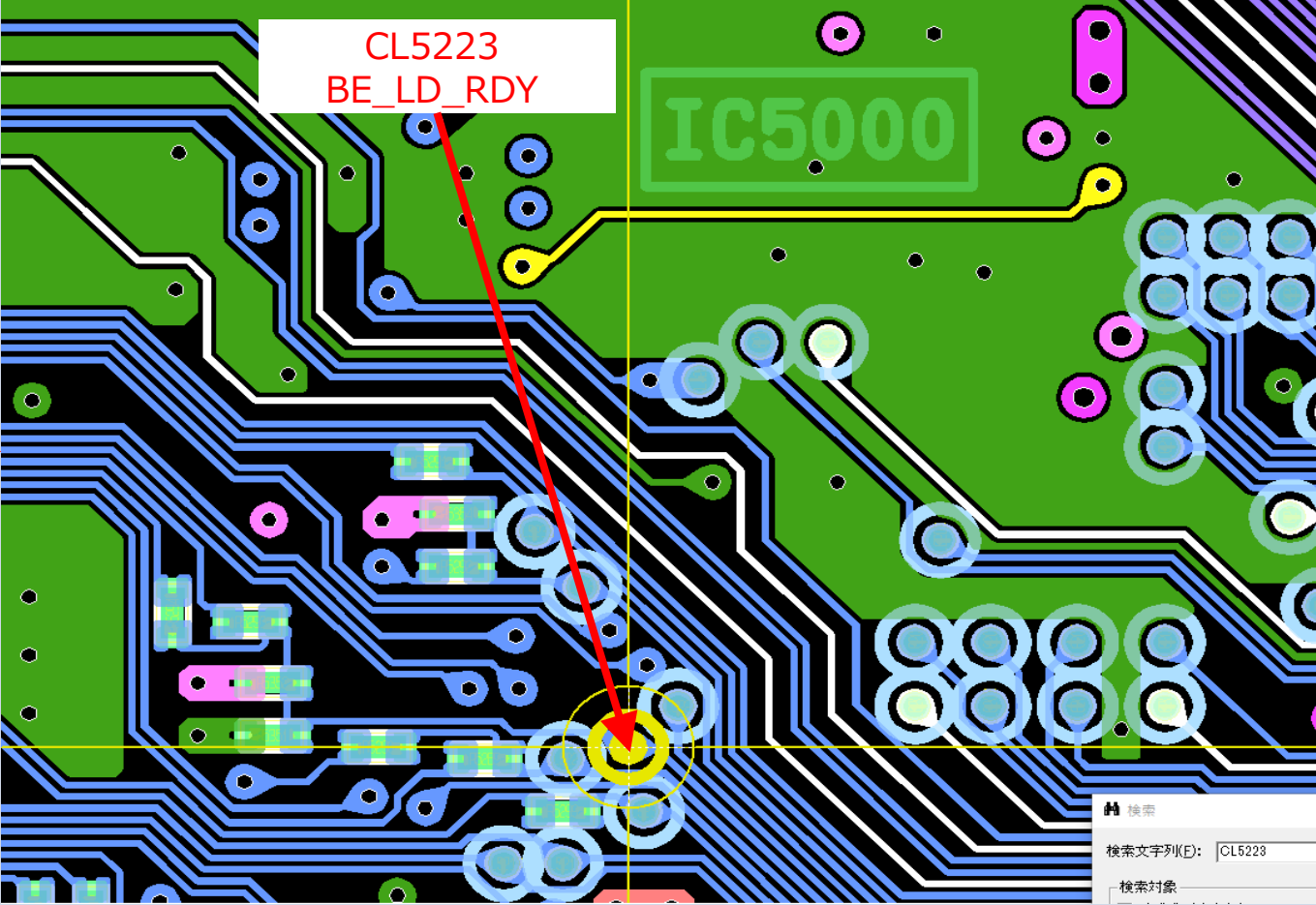


| Error Item | Number of STBY LED Blinking | Description | |
|------------|-----------------------------|-------------|---|
| BCM_ERR | 4 | LCD | LD IC initialize or I2C communication failure |
| | | OLED | Panel power failure |

TROUBLESHOOTING

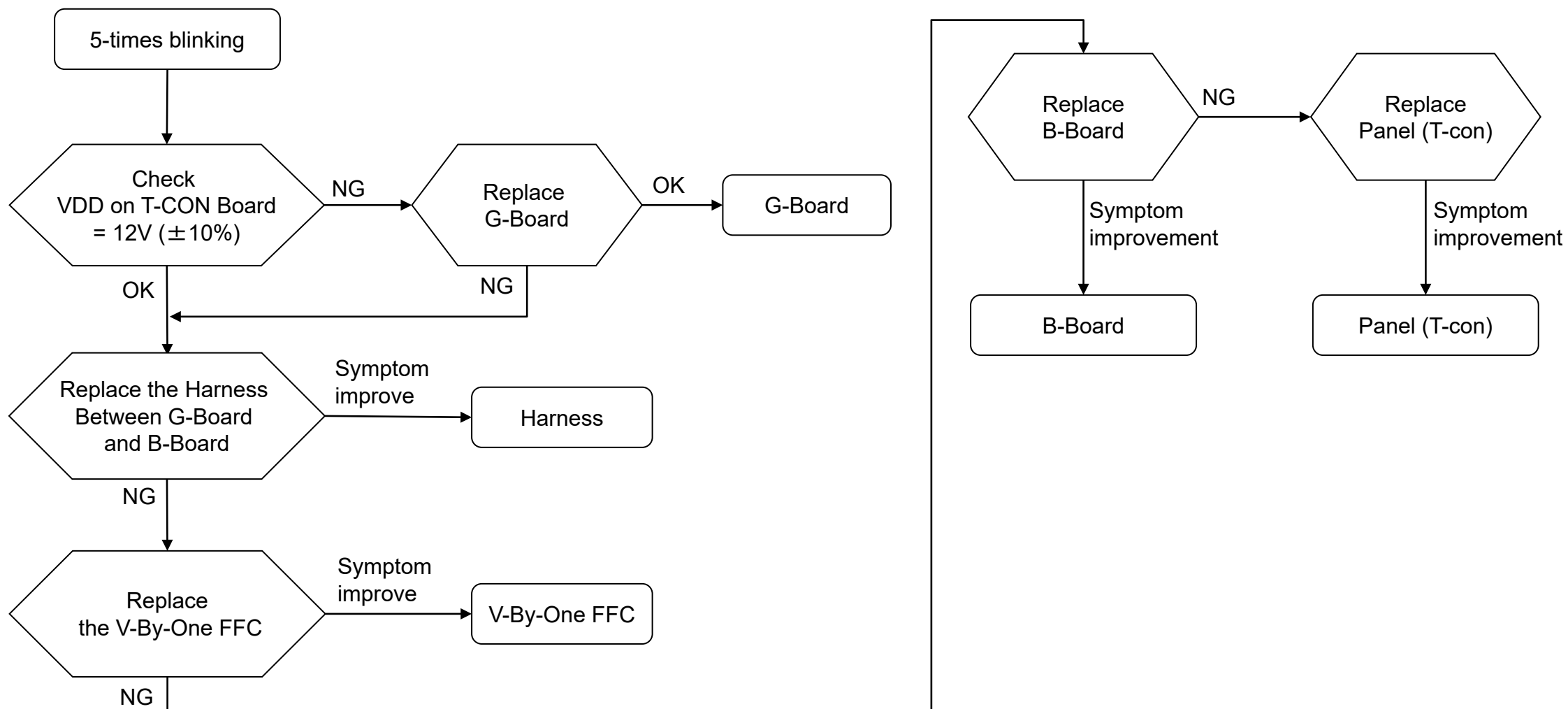
2.4 4x LED Blinking – BCM_ERR

Check Point for BM5S22B

| Board PWB (A side) | Detail |
|--|--|
|  A photograph of the green printed wiring board (PWB) for the BM5S22B. A red rectangular box highlights a specific area on the left side of the board, with a red dashed arrow pointing from this box to the detailed view on the right. |  A detailed view of the PWB showing the circuit traces and components. A red arrow points from a white text box containing "CL5223" and "BE_LD_RDY" to a yellow circular component on the board. A yellow dashed line also highlights this component. In the background, a large green rectangular area is labeled "IC5000". At the bottom right, there is a search interface with the text "検索" (Search), "検索文字列(E): CL5223", and "検索対象" (Search target). |

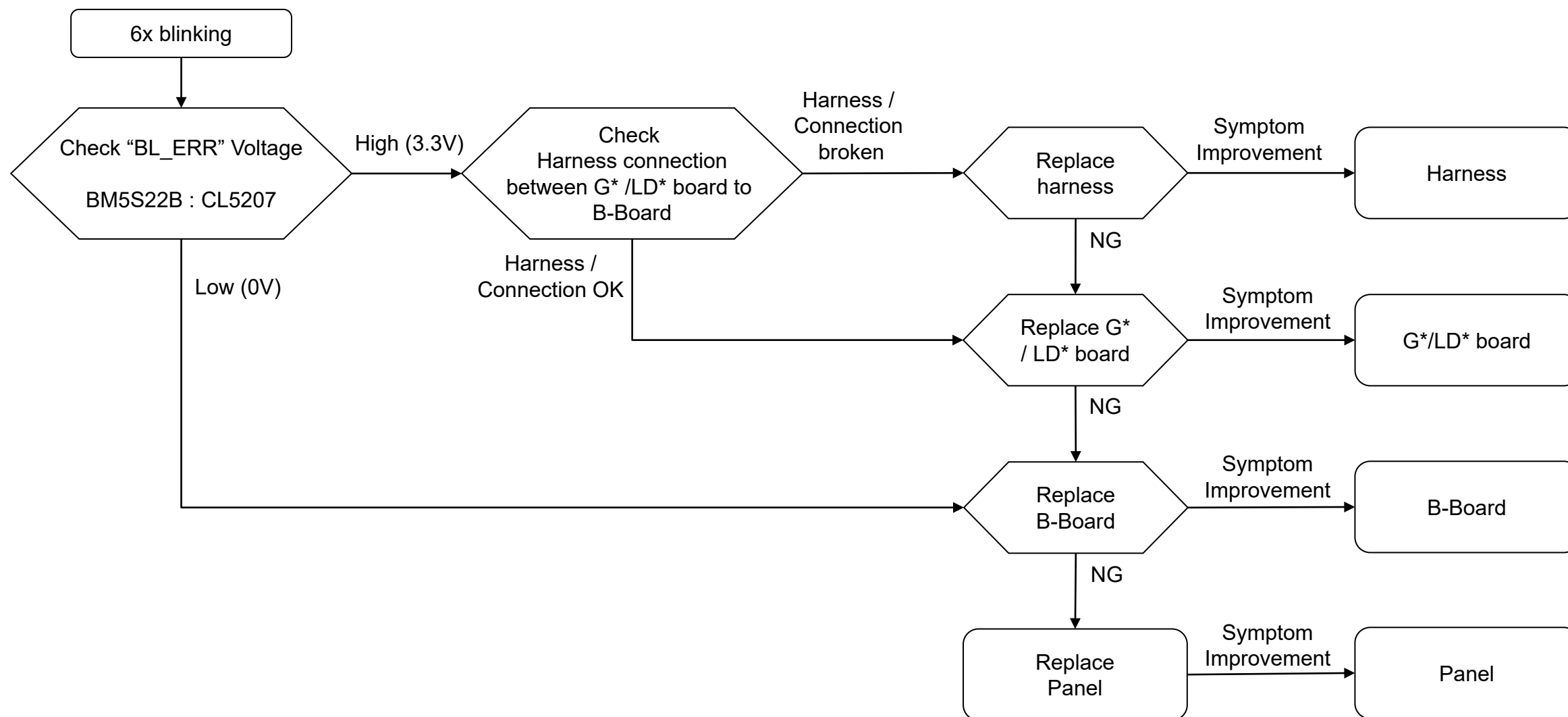
TROUBLESHOOTING

2.5 5x LED Blinking – P_ID_ERR



TROUBLESHOOTING

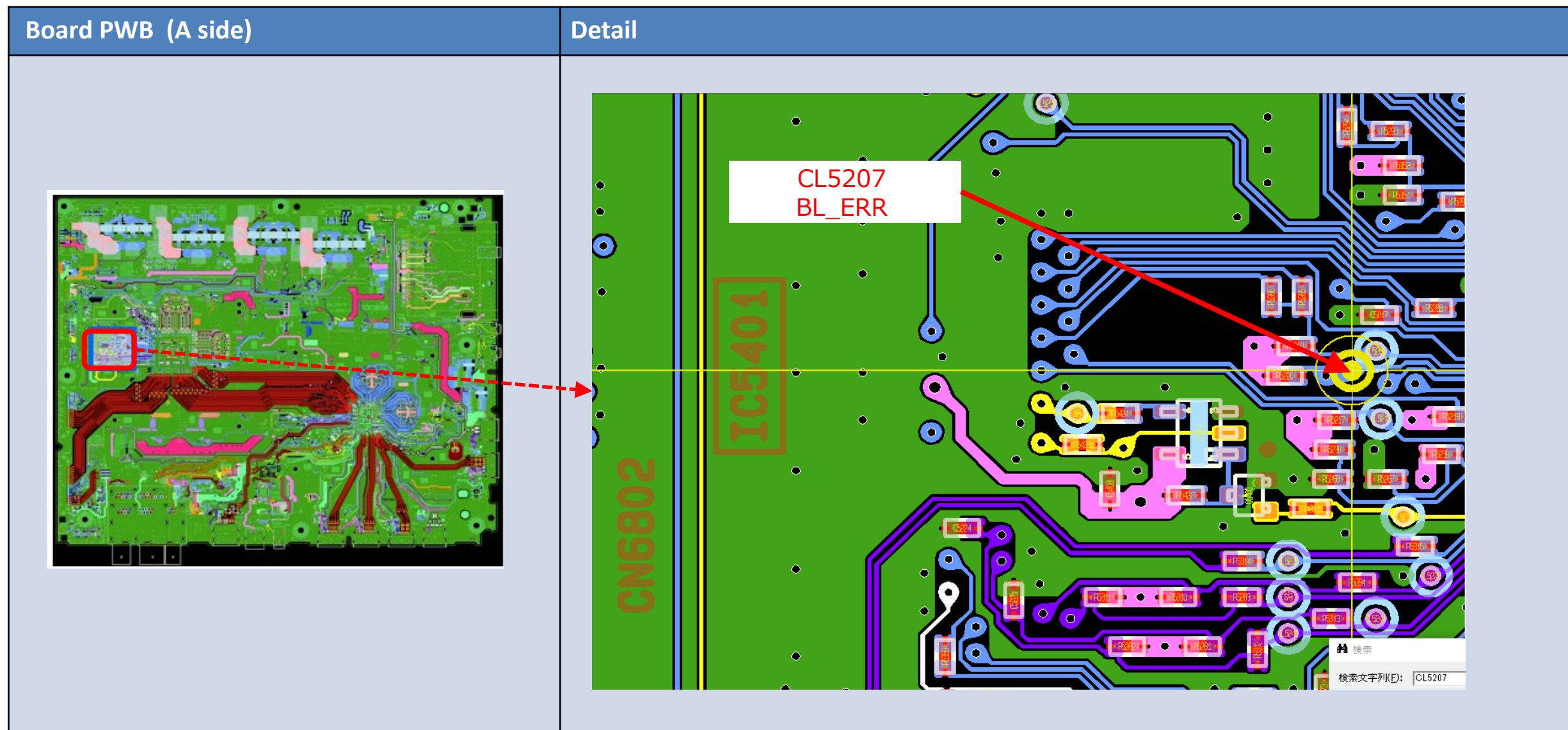
2.6 6x LED Blinking – Backlight_ERR



TROUBLESHOOTING

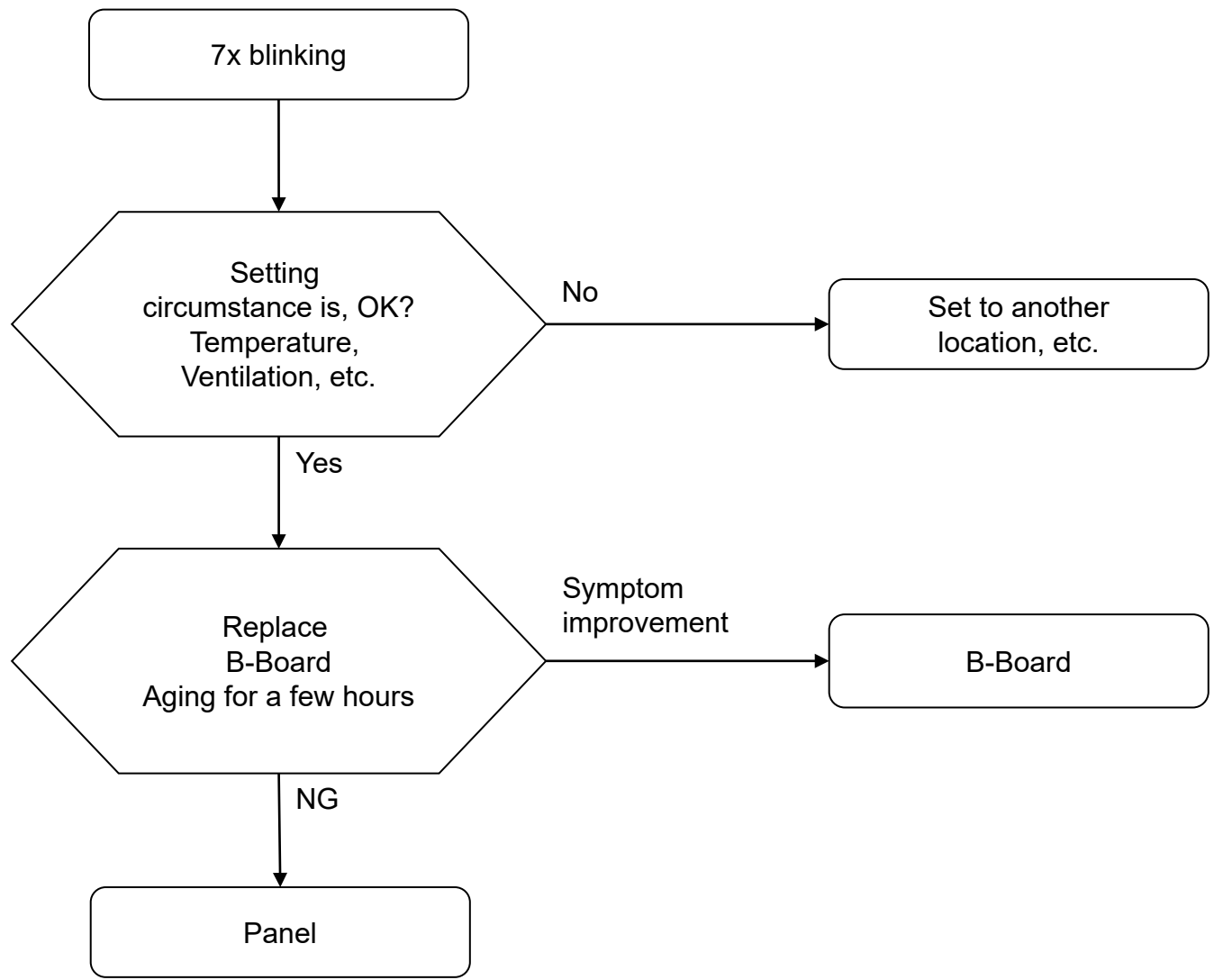
2.6 6x LED Blinking – Backlight_ERR

Check Point for BM5S22B

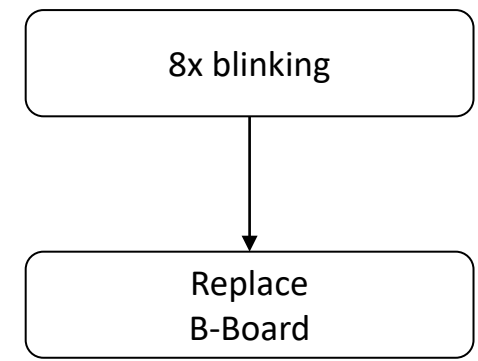


TROUBLESHOOTING

2.7 7x LED Blinking – TEMP_ERR

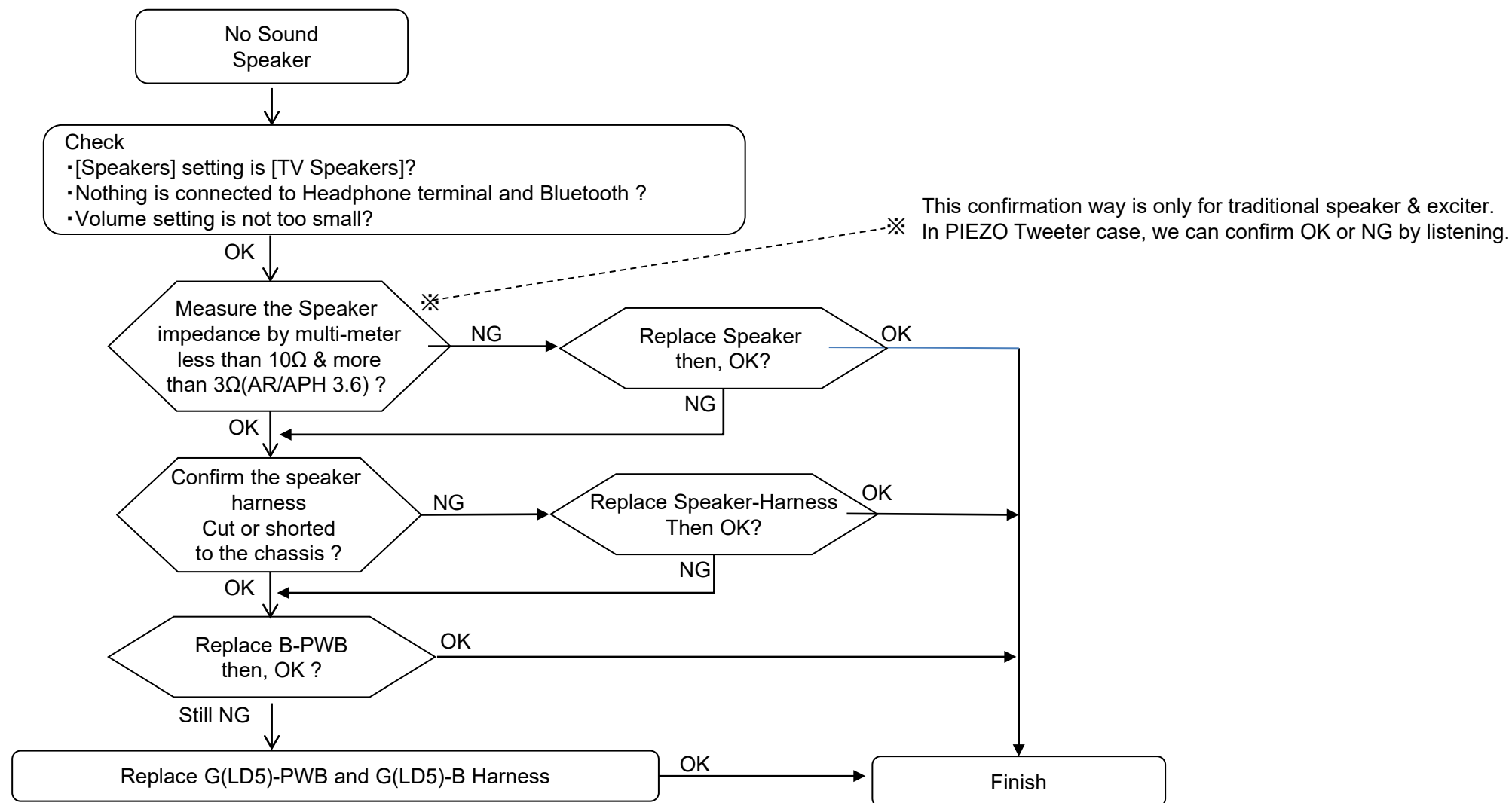


2.8 8x LED Blinking – 4KBE_ERR



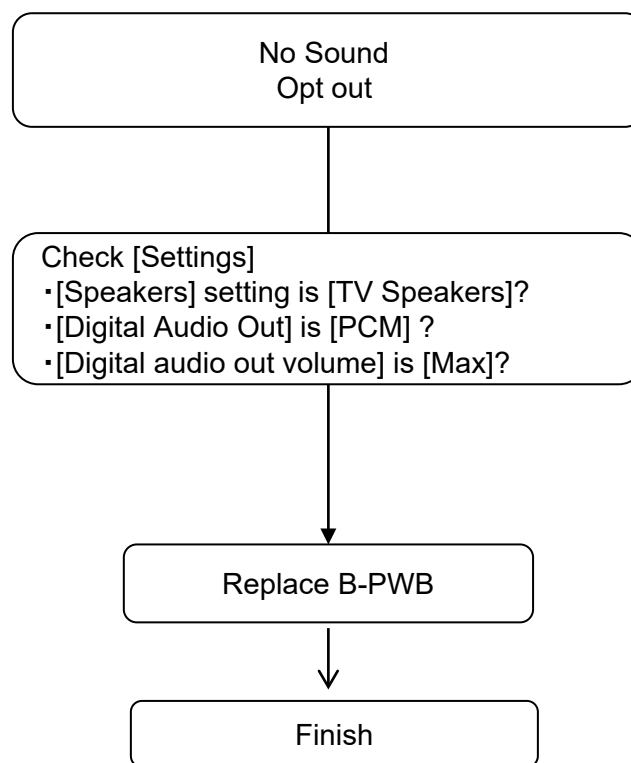
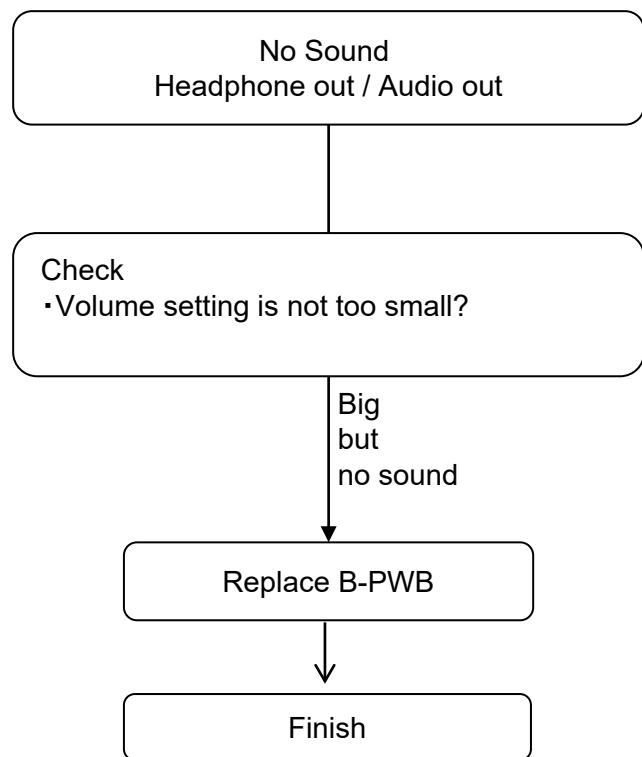
TROUBLESHOOTING

3.1 No Sound – Speaker



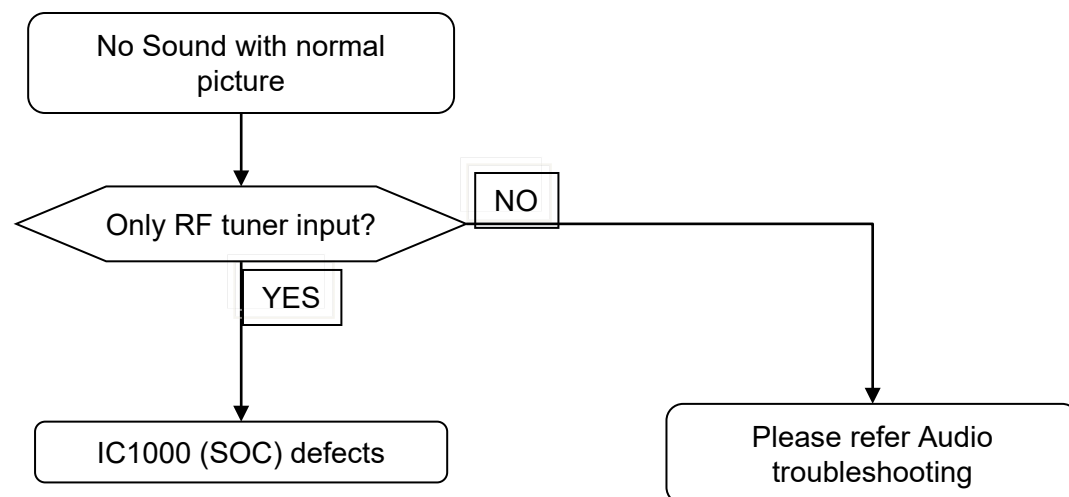
TROUBLESHOOTING

3.2 No Sound – Headphone / Audio / Opt Out

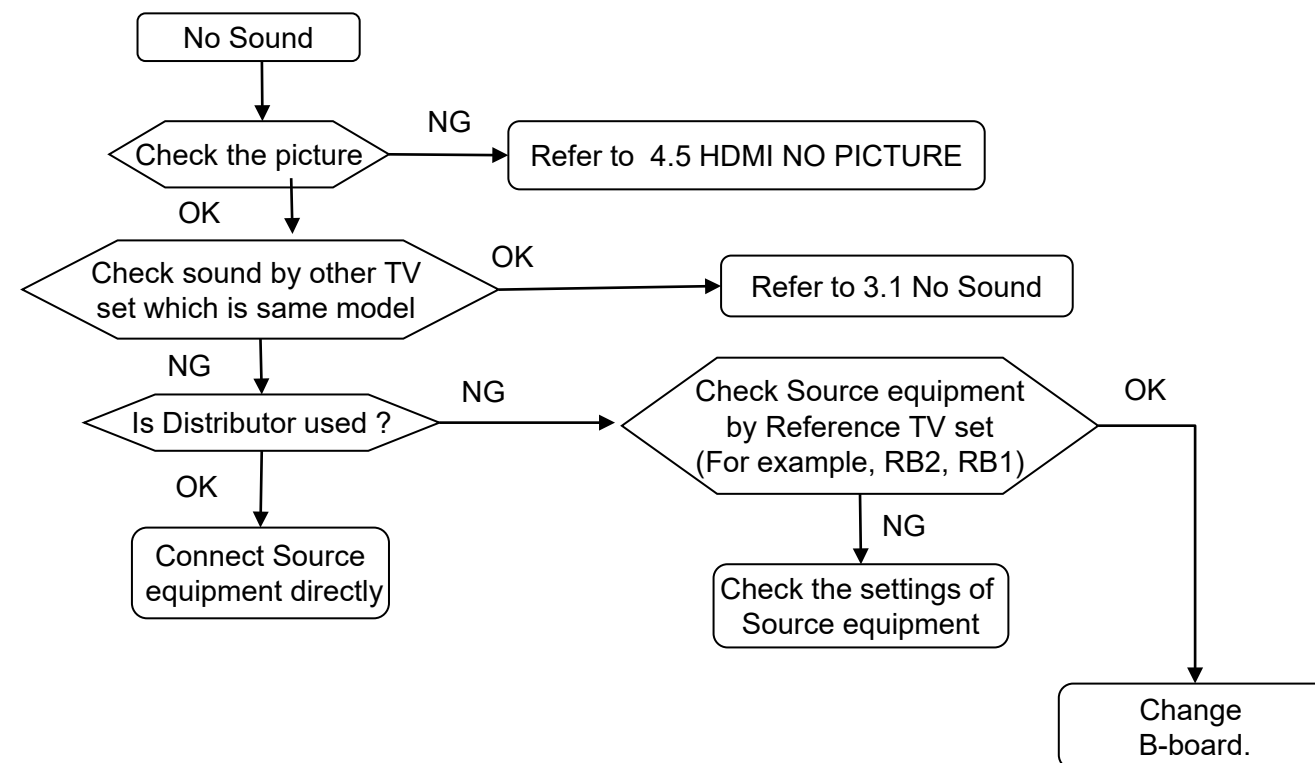


TROUBLESHOOTING

3.7 No Sound – Tuner

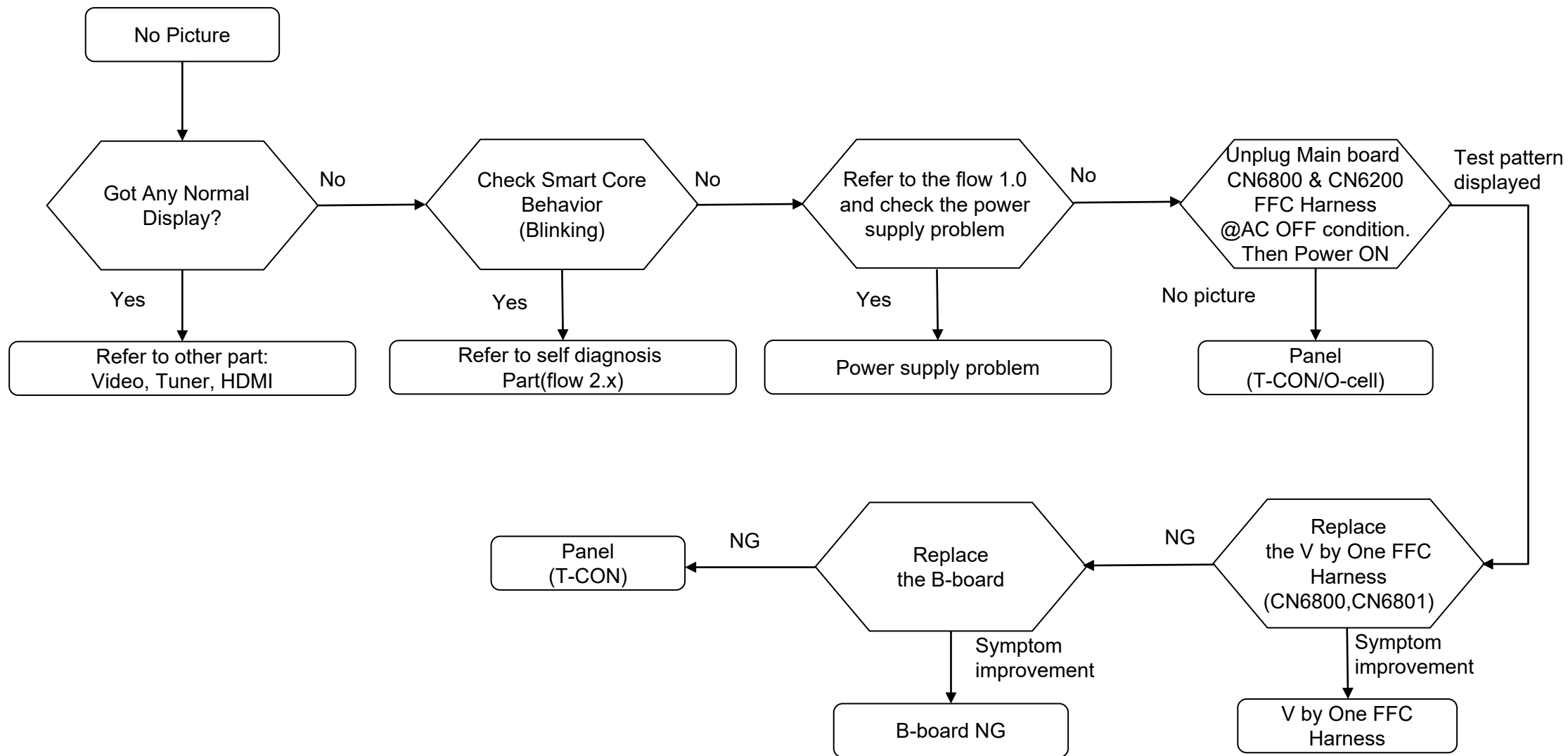


3.8 No Sound – HDMI 1/2/3/4



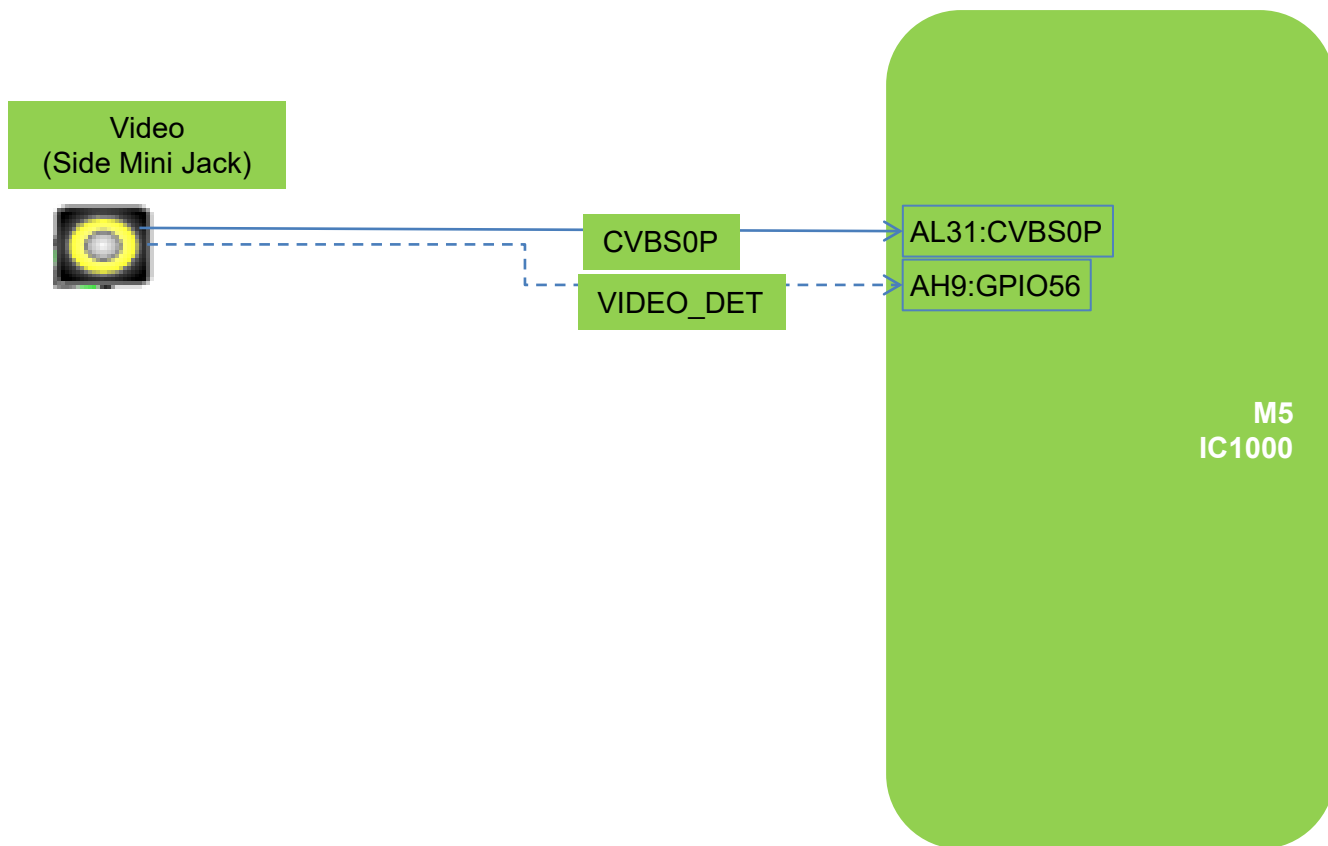
TROUBLESHOOTING

4.0 No Picture



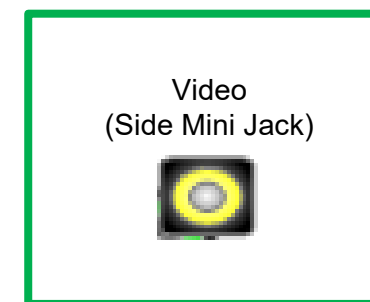
TROUBLESHOOTING

4.1 Video Analog Signal Path



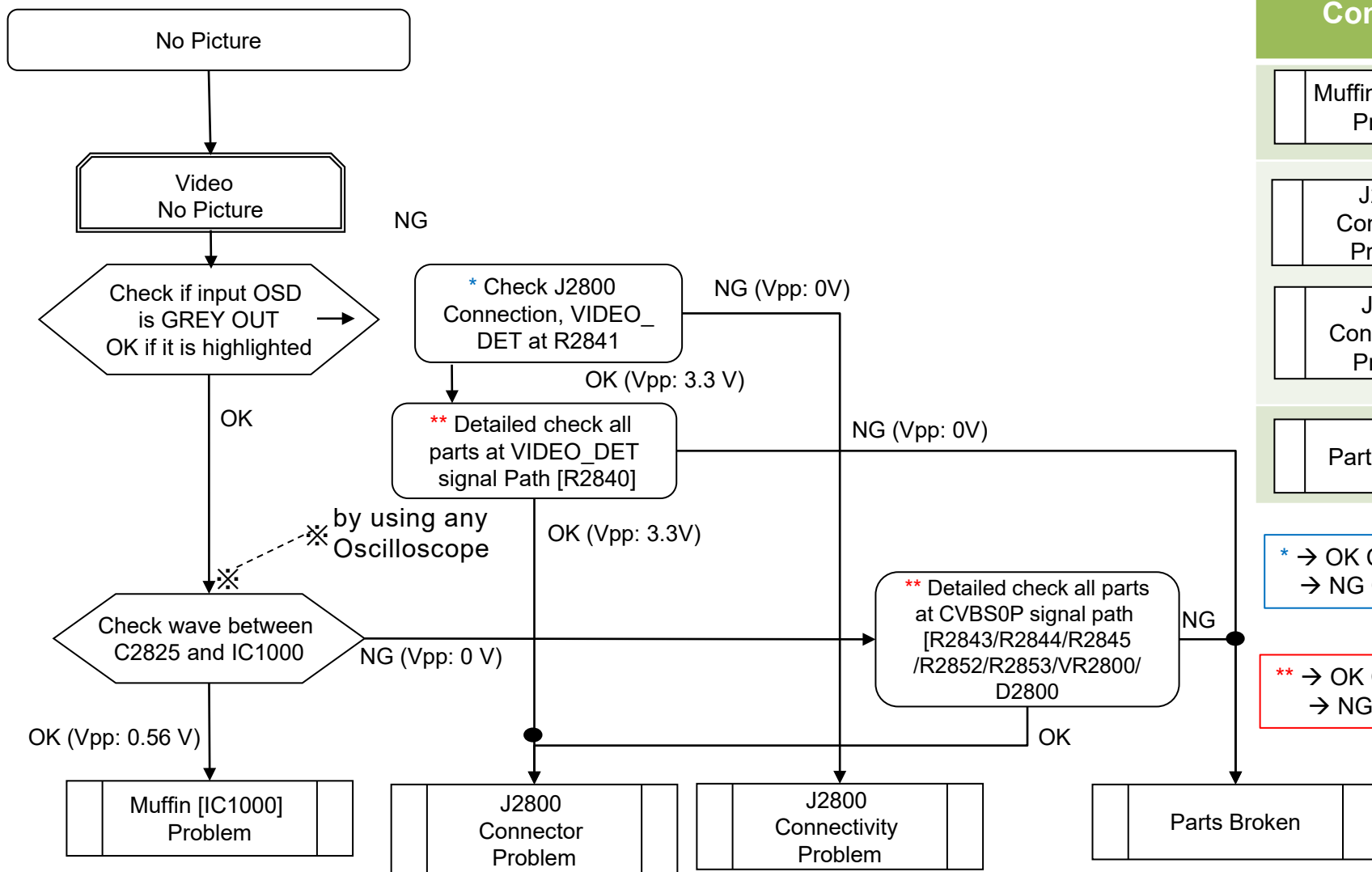
Input Skip Function

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



TROUBLESHOOTING

4.2 No Picture



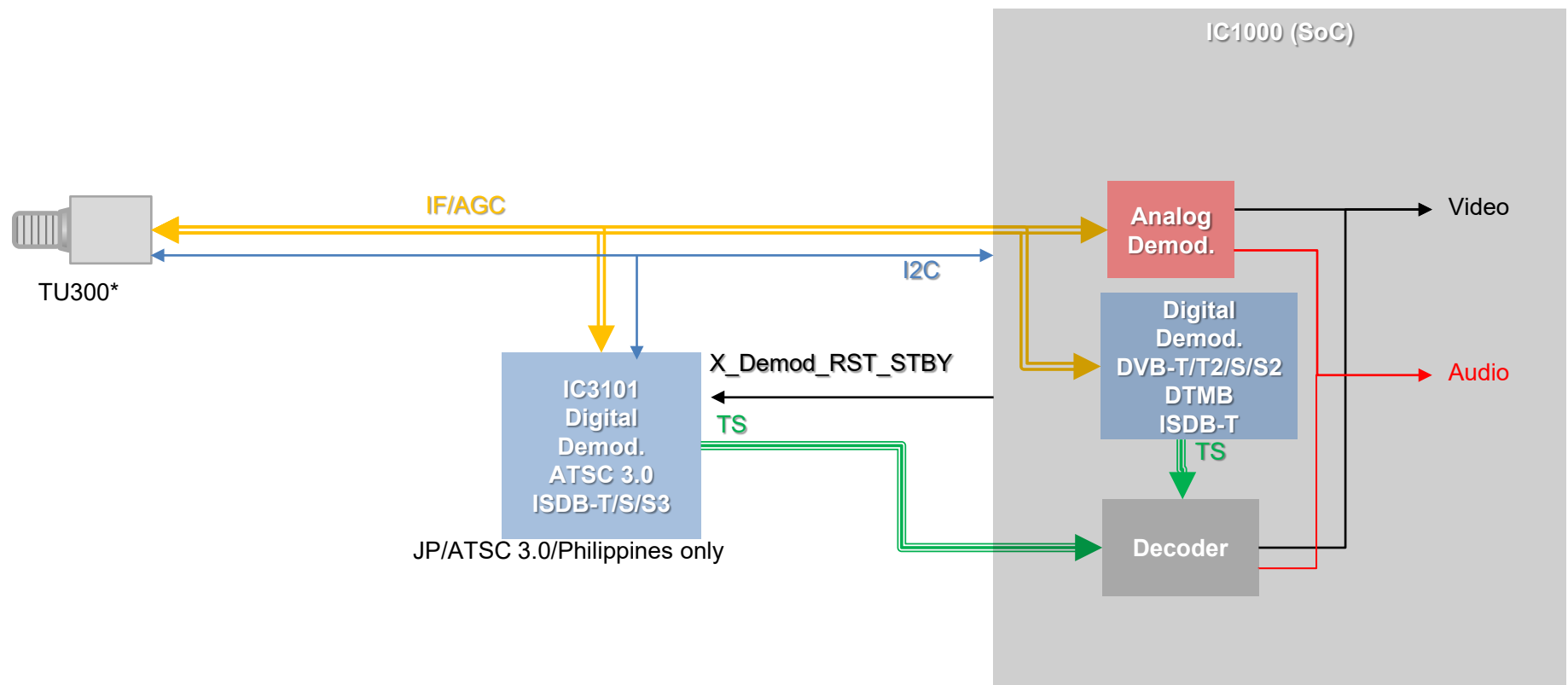
| Condition | Actions to be taken |
|----------------------------|---|
| Muffin [IC1000] Problem | Refer to IC troubleshooting for further investigation |
| J2800 Connector Problem | Change Connector |
| J2800 Connectivity Problem | |
| Parts Broken | Change Part |

* → 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

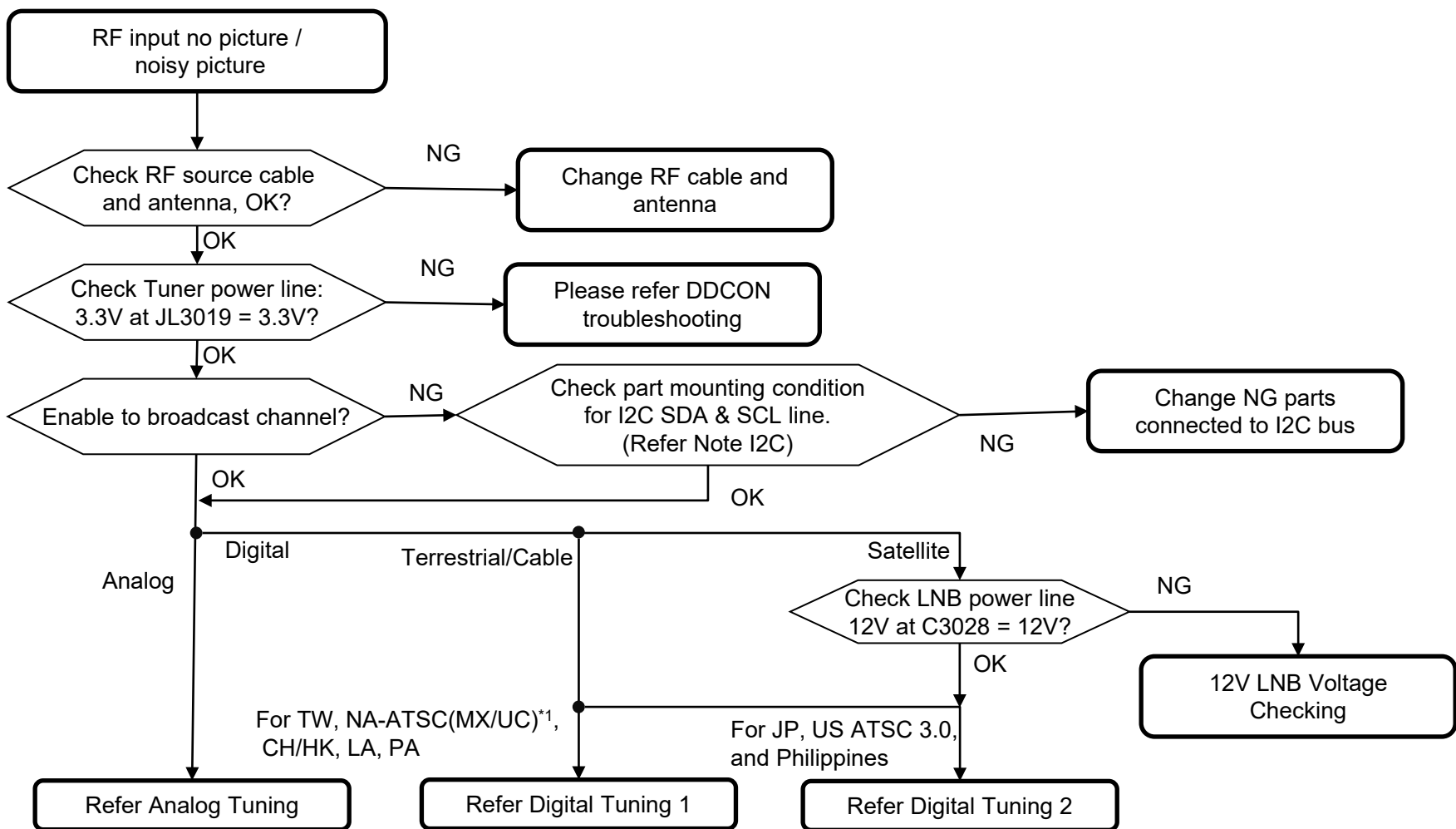
TROUBLESHOOTING

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

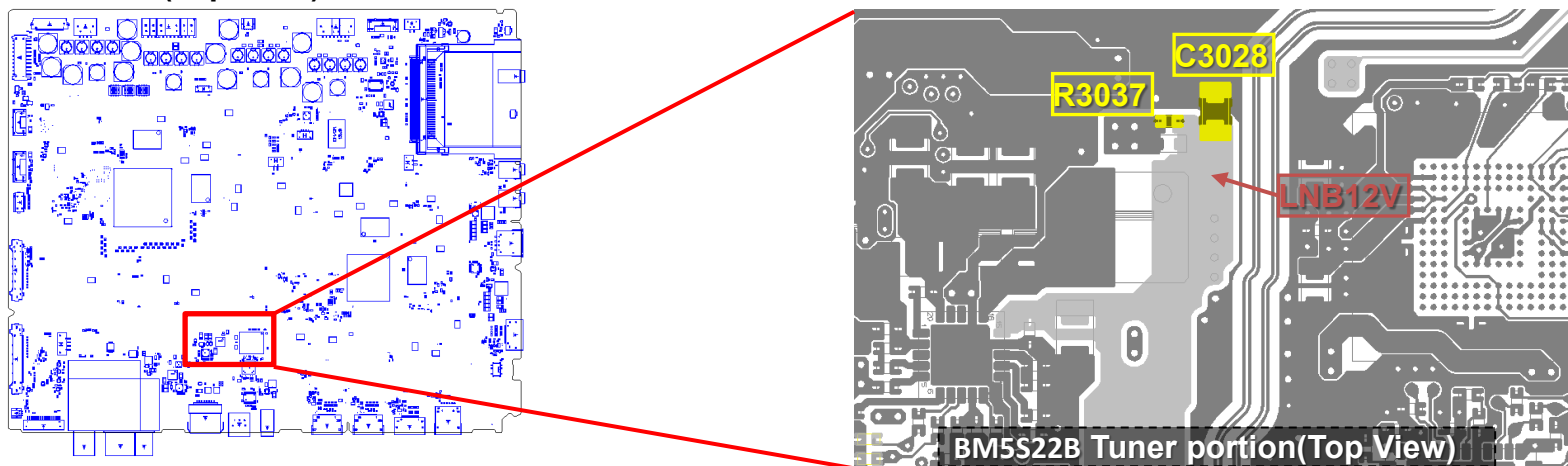
*1 : Except US ATSC3.0, Please refer Digital Tuning 2

TROUBLESHOOTING

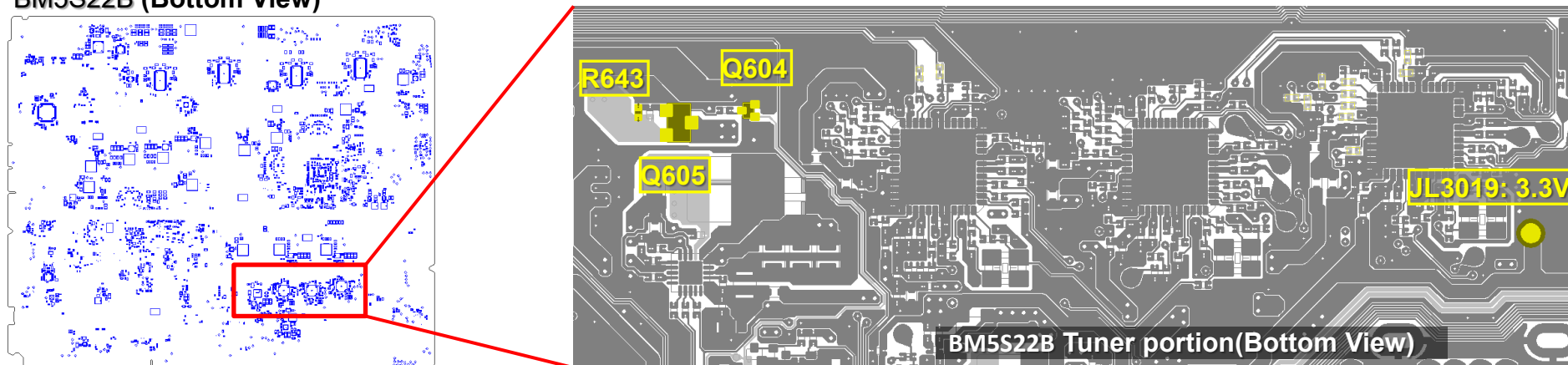
4.4 No Picture - Tuner

*I2C: Please refer Digital Tuning

BM5S22B (Top View)



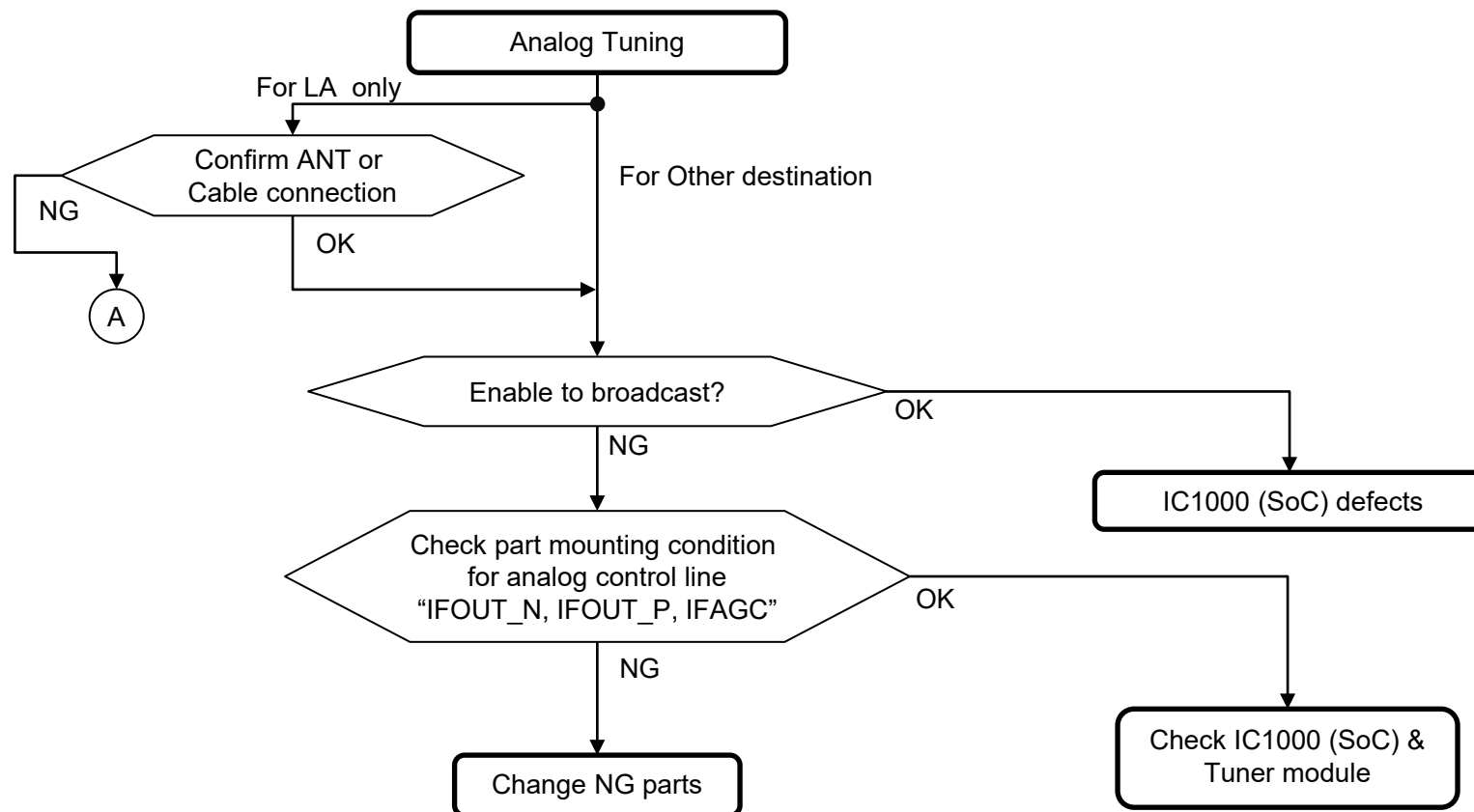
BM5S22B (Bottom View)



TROUBLESHOOTING

4.4 No Picture - Tuner

FOR ANALOG TUNING



Notes:

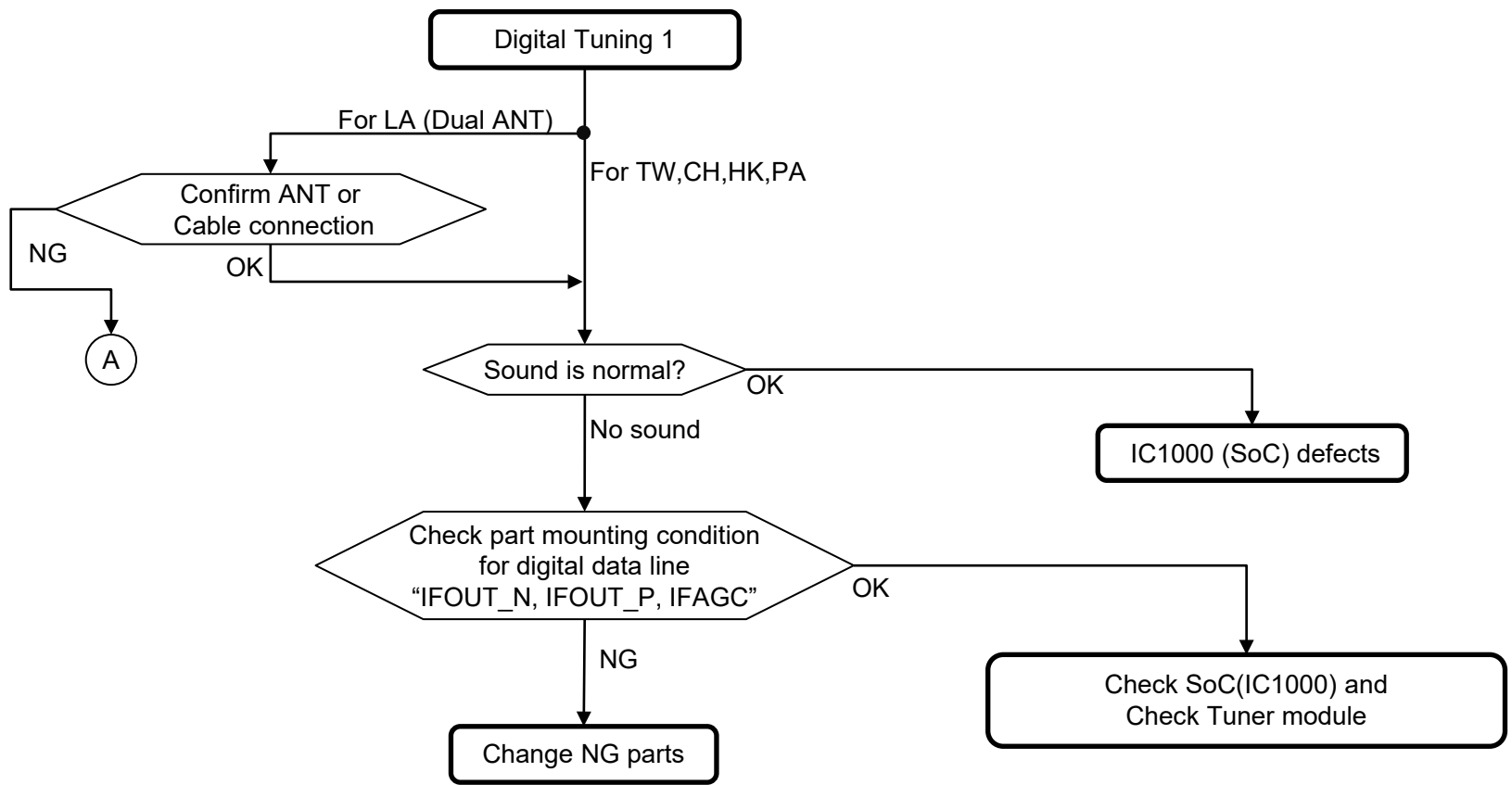
- Parts for IFOUT_N line : C3011
- Parts for IFOUT_P line : C3010
- Parts for IFAGC line : R3003 ,R3024, C3023

(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.

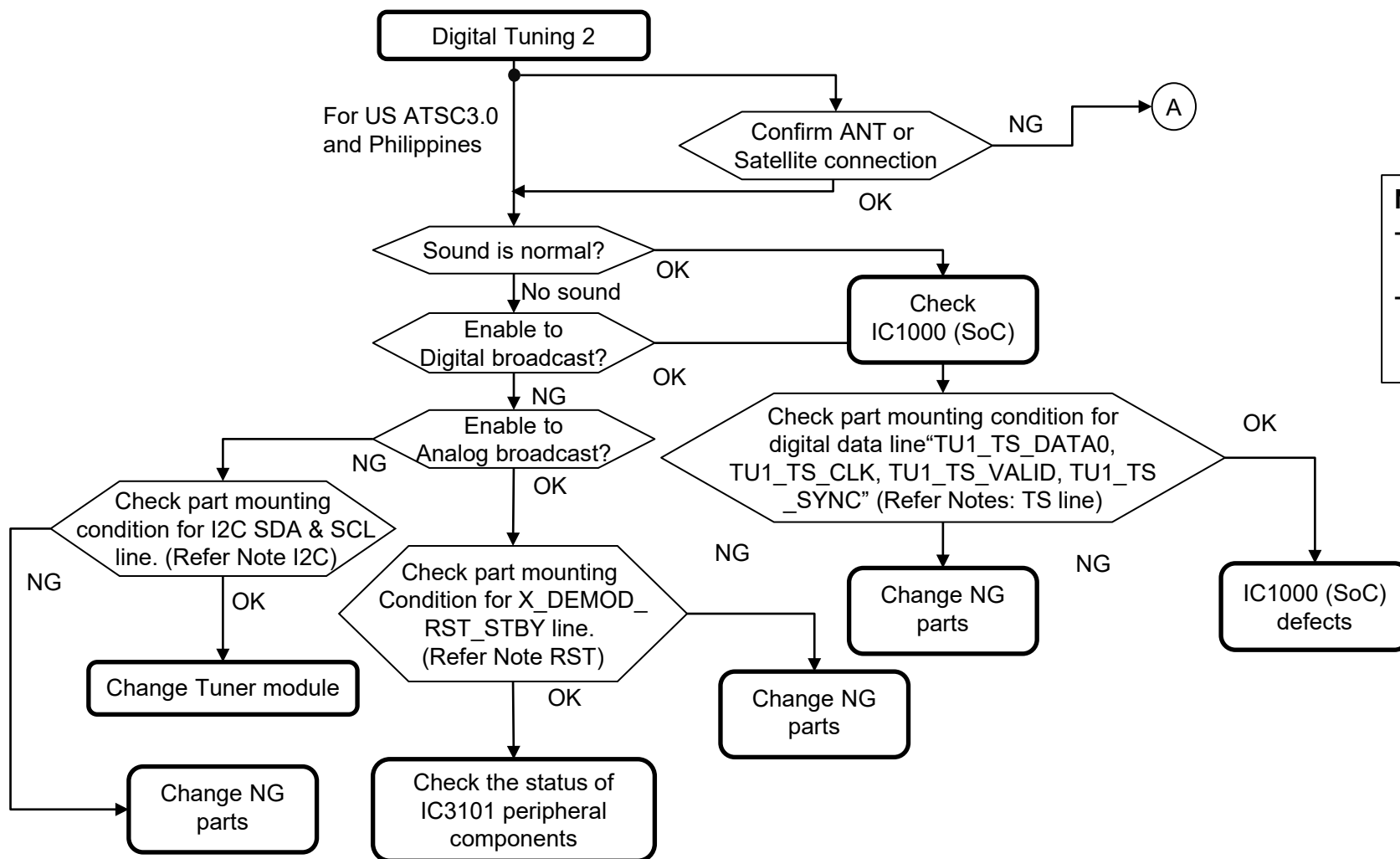
TROUBLESHOOTING

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.

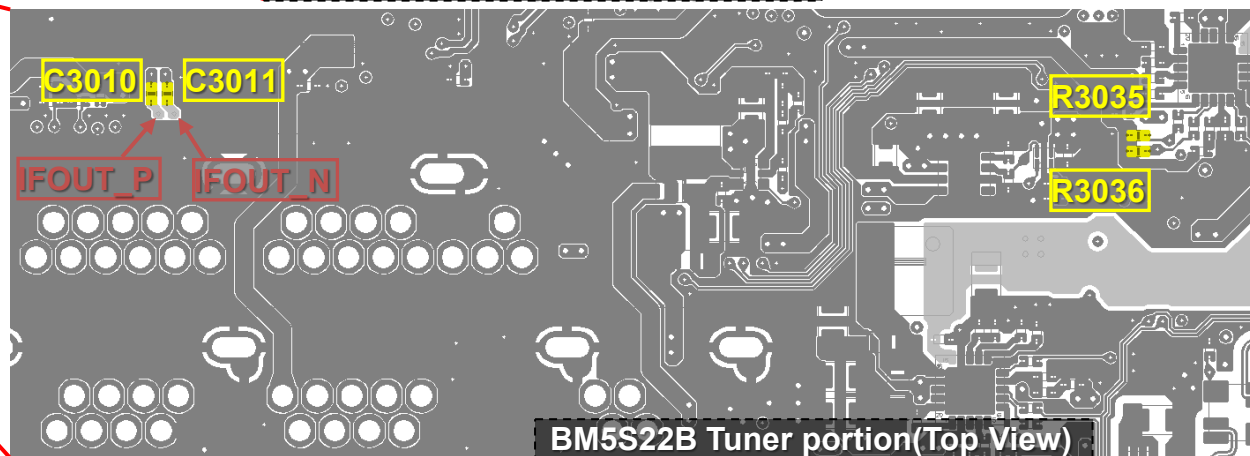
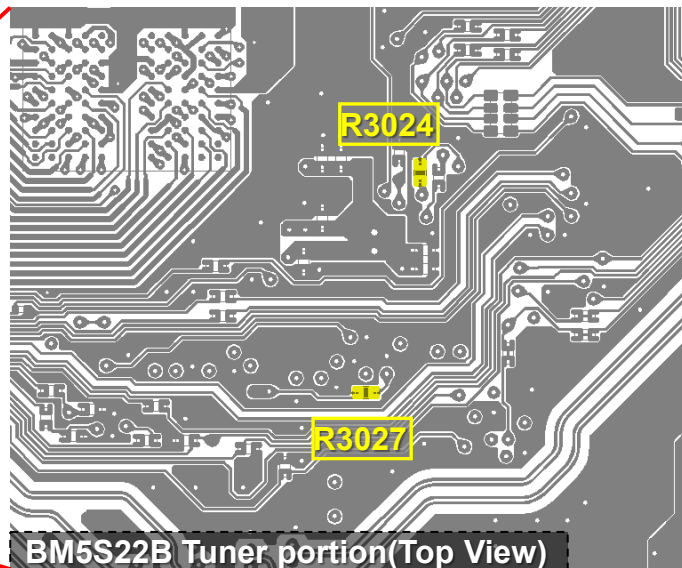
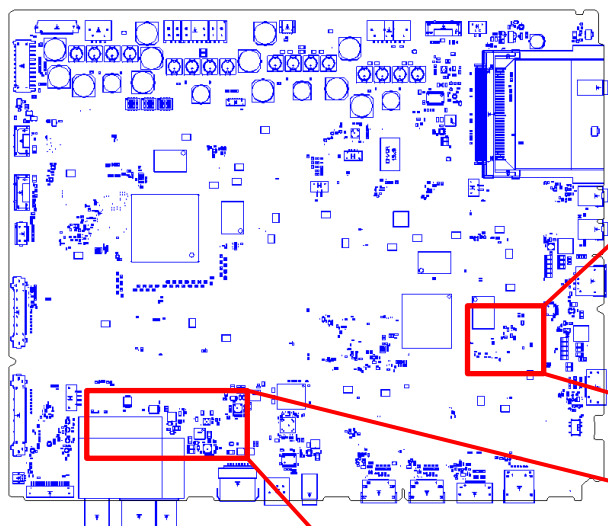
Notes: RST
 - Parts for X_DEMOD_RST line:
 R3109, C3117

 Voltage confirmation point
 C3117 = 3.3V

TROUBLESHOOTING

4.4 No Picture - Tuner

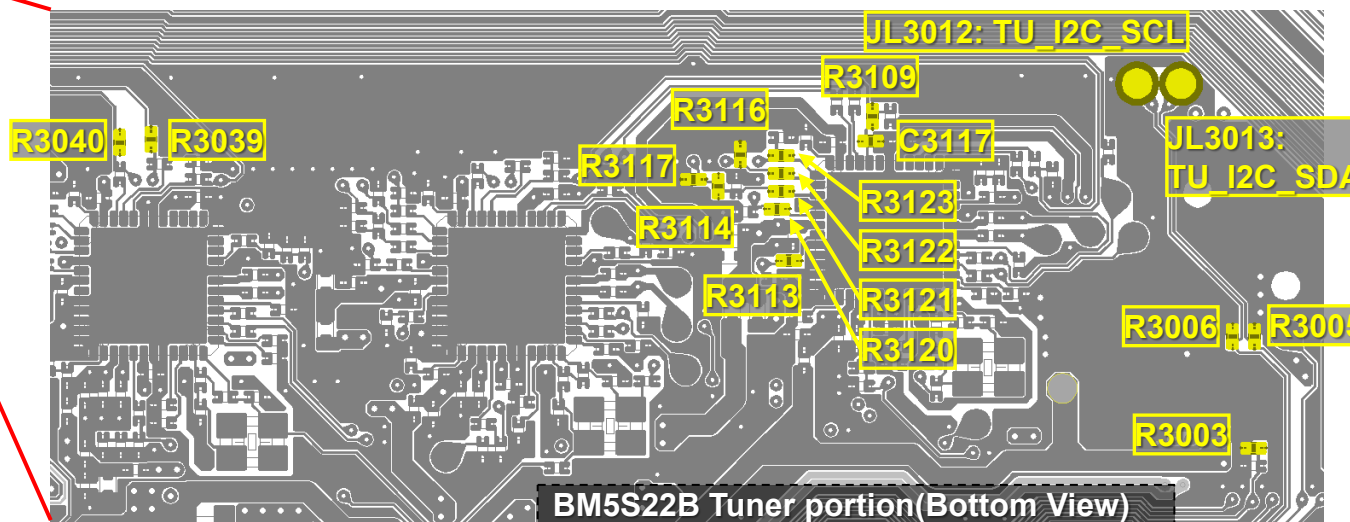
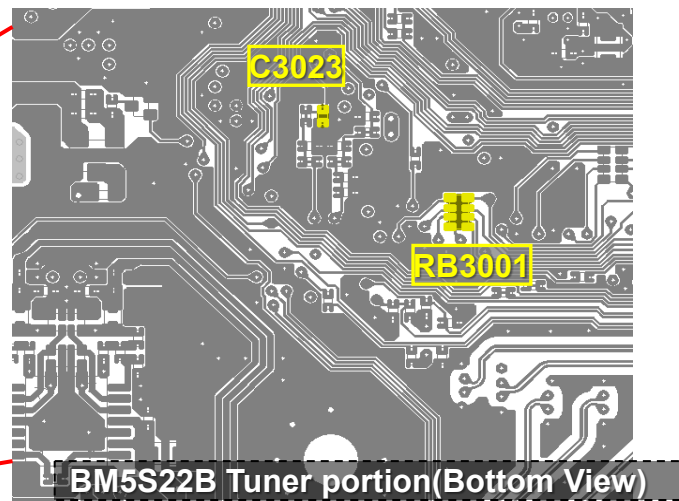
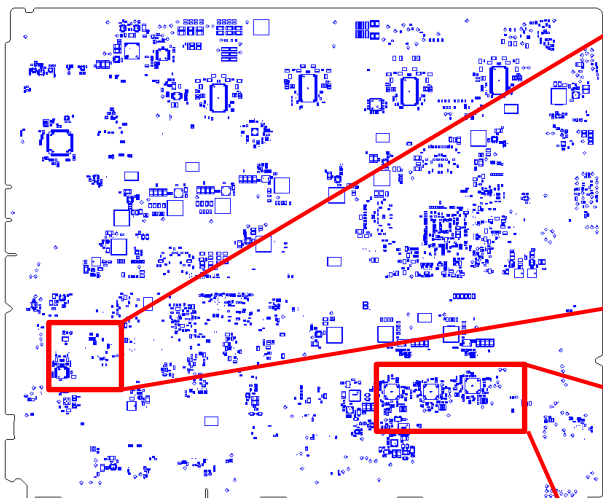
BM5S22B (Top View)



TROUBLESHOOTING

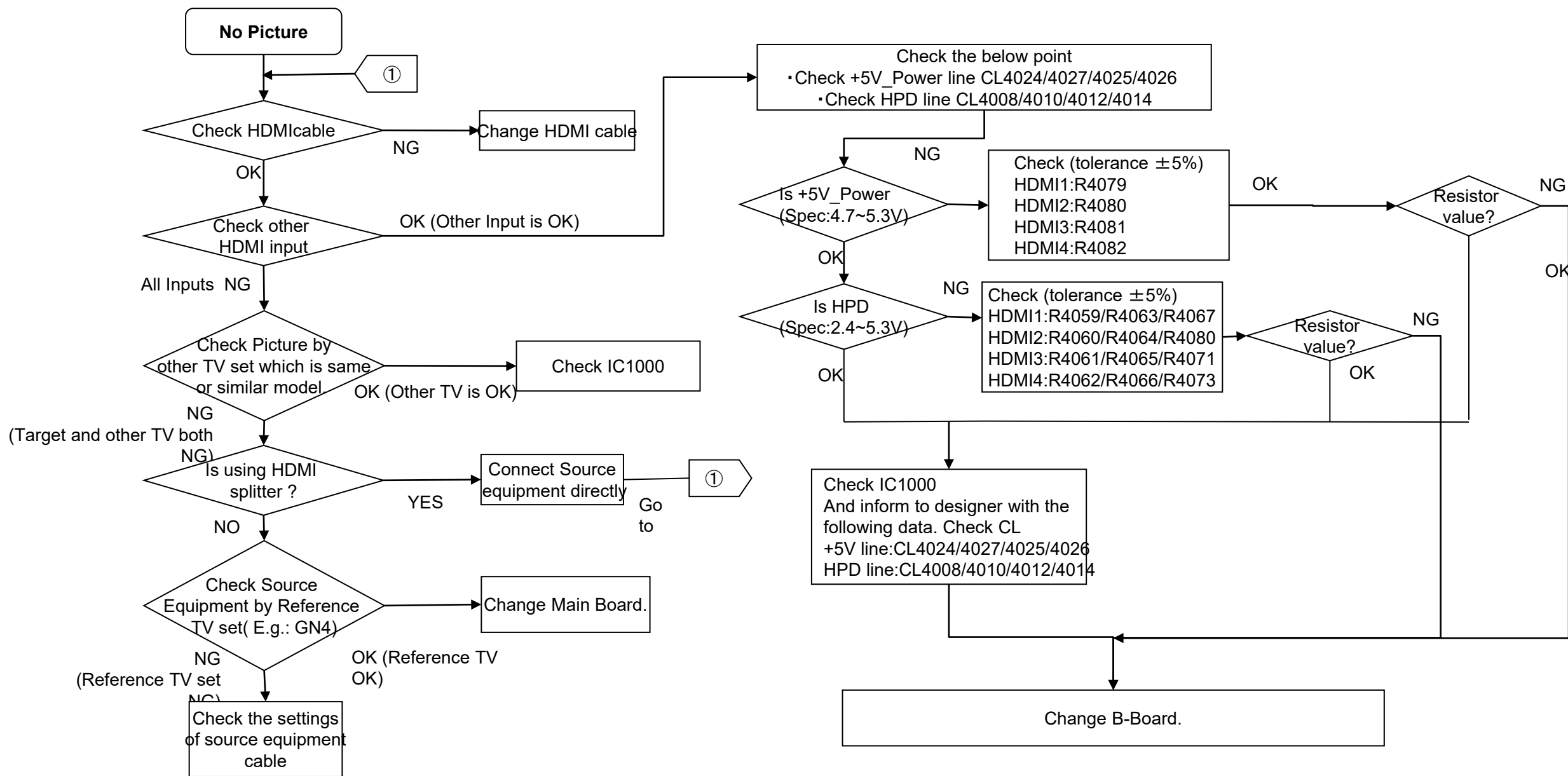
4.4 No Picture - Tuner

BM5S22B (Bottom View)



TROUBLESHOOTING

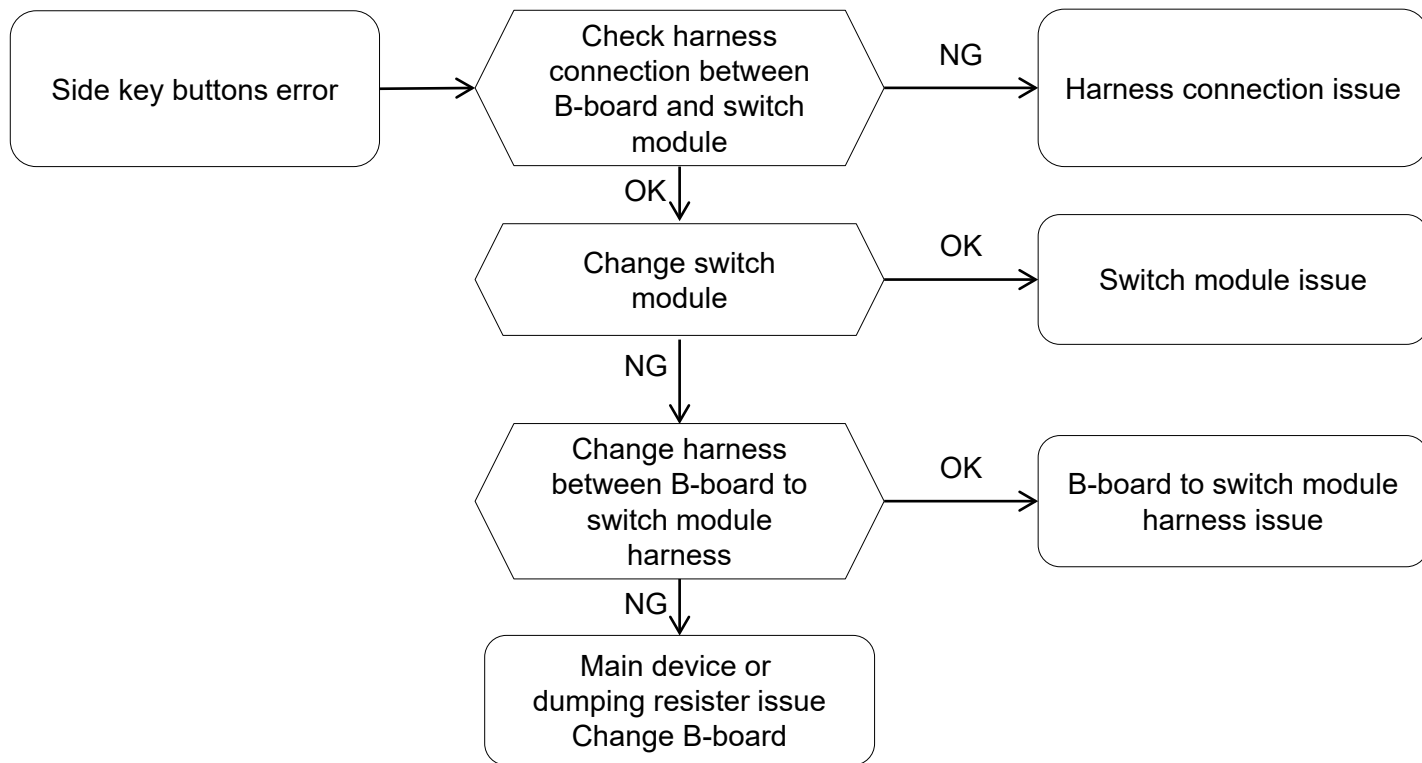
4.5 No Picture – HDMI 1/2/3/4



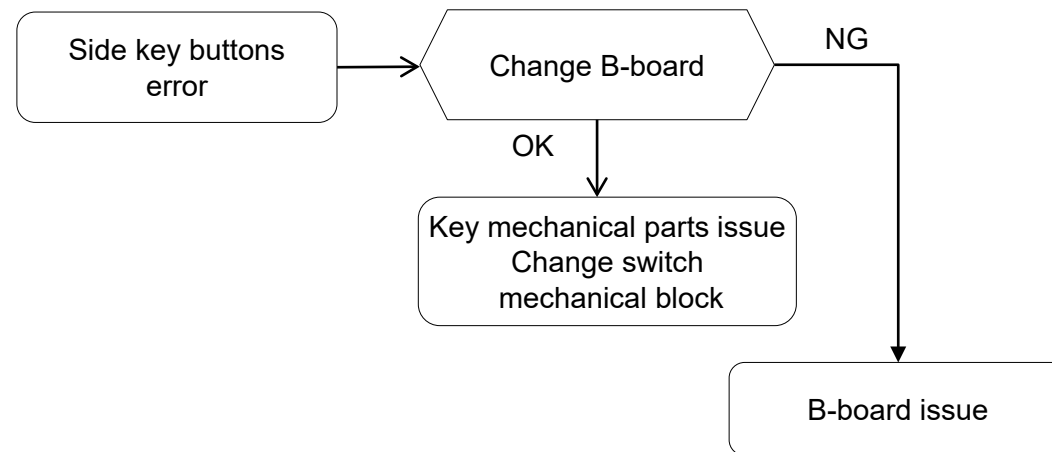
TROUBLESHOOTING

5.0 Key Switch – Buttons Error

Switch Module Type

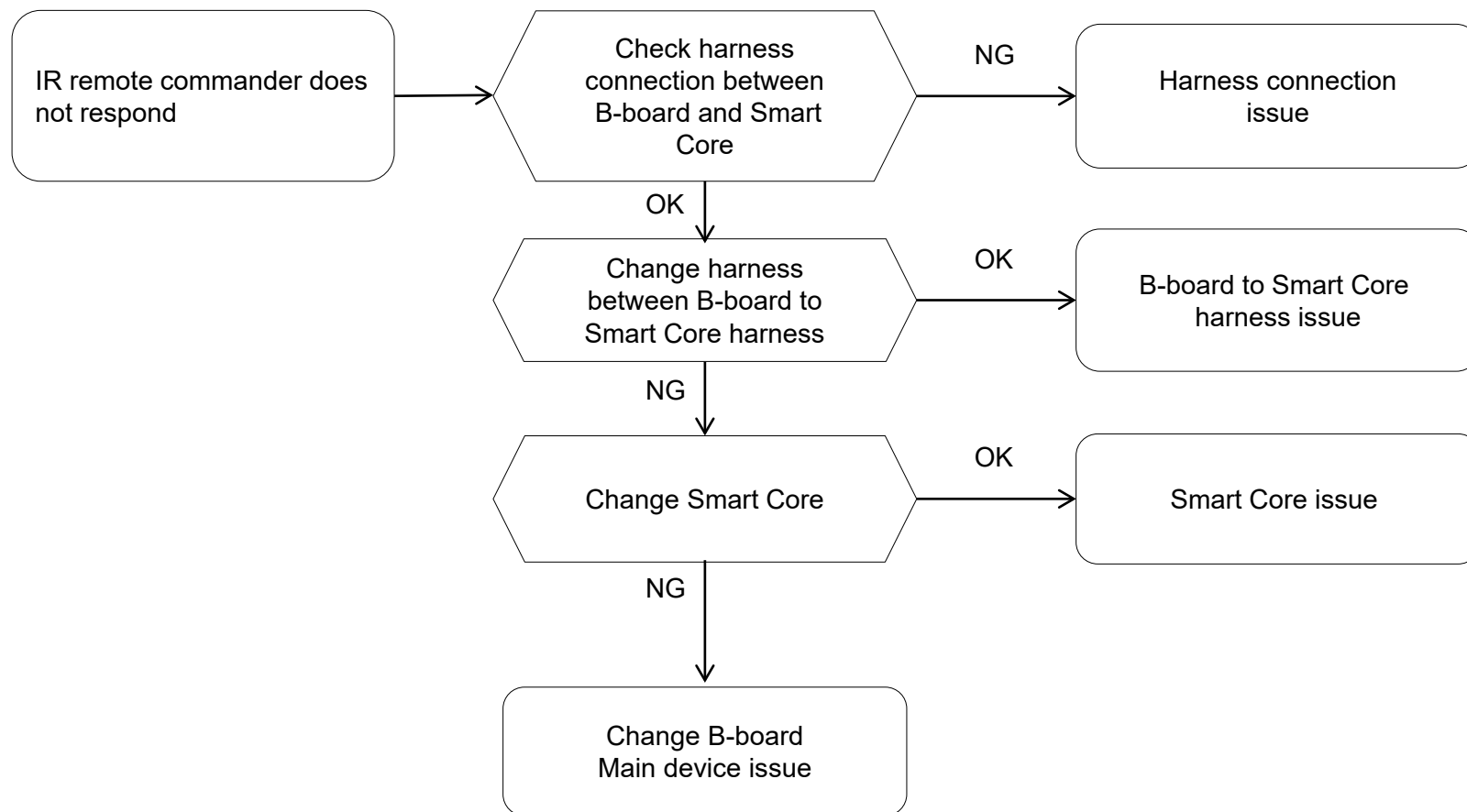


On Board Switch Type



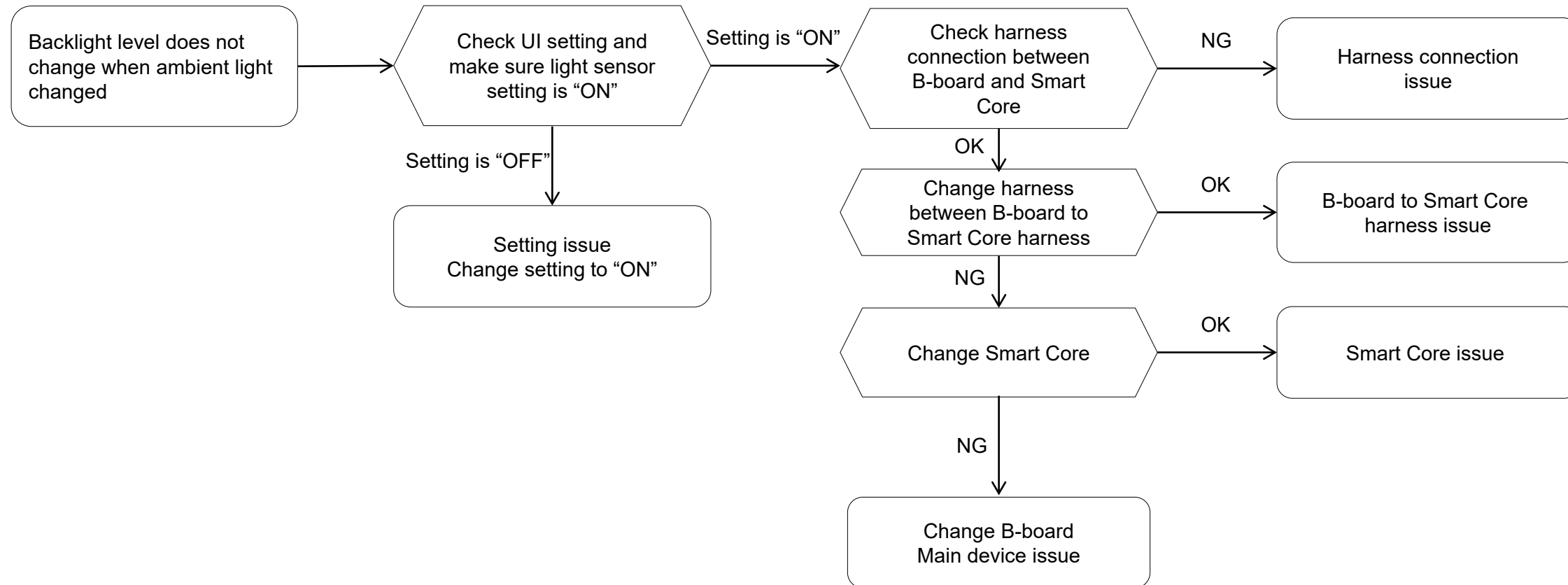
TROUBLESHOOTING

5.1 IR Remote Commander Error



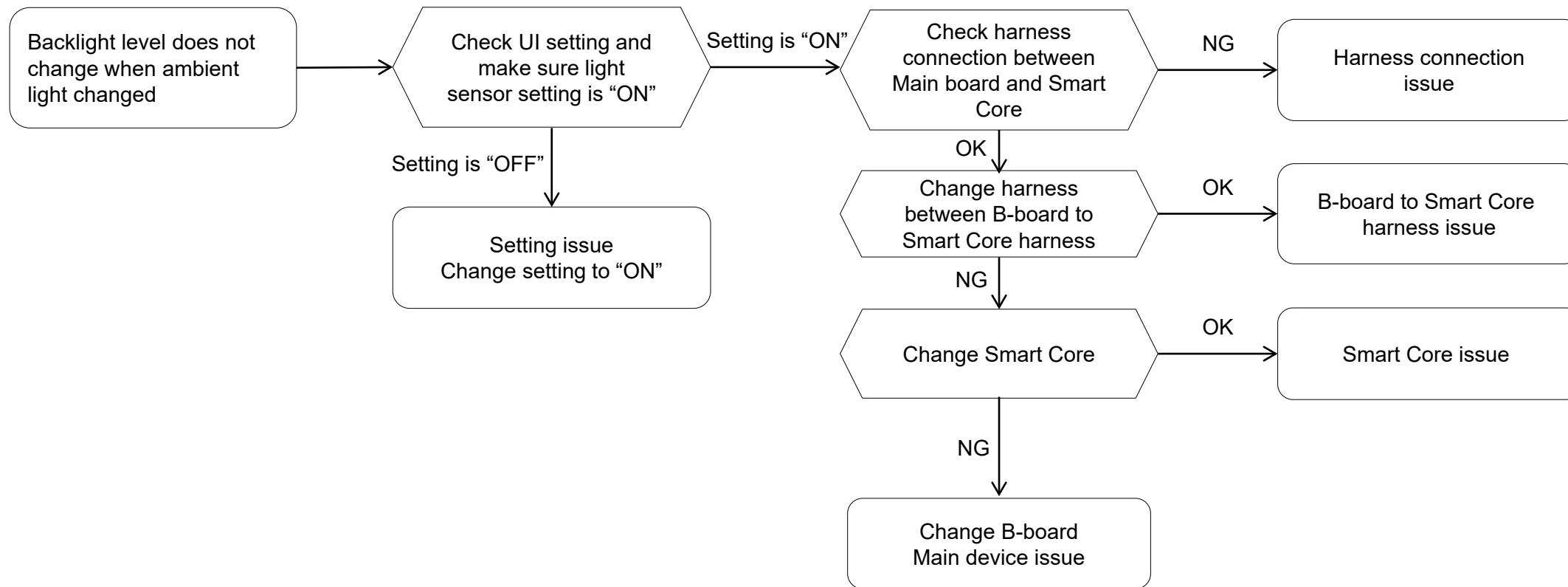
TROUBLESHOOTING

5.2 Light Sensor Error



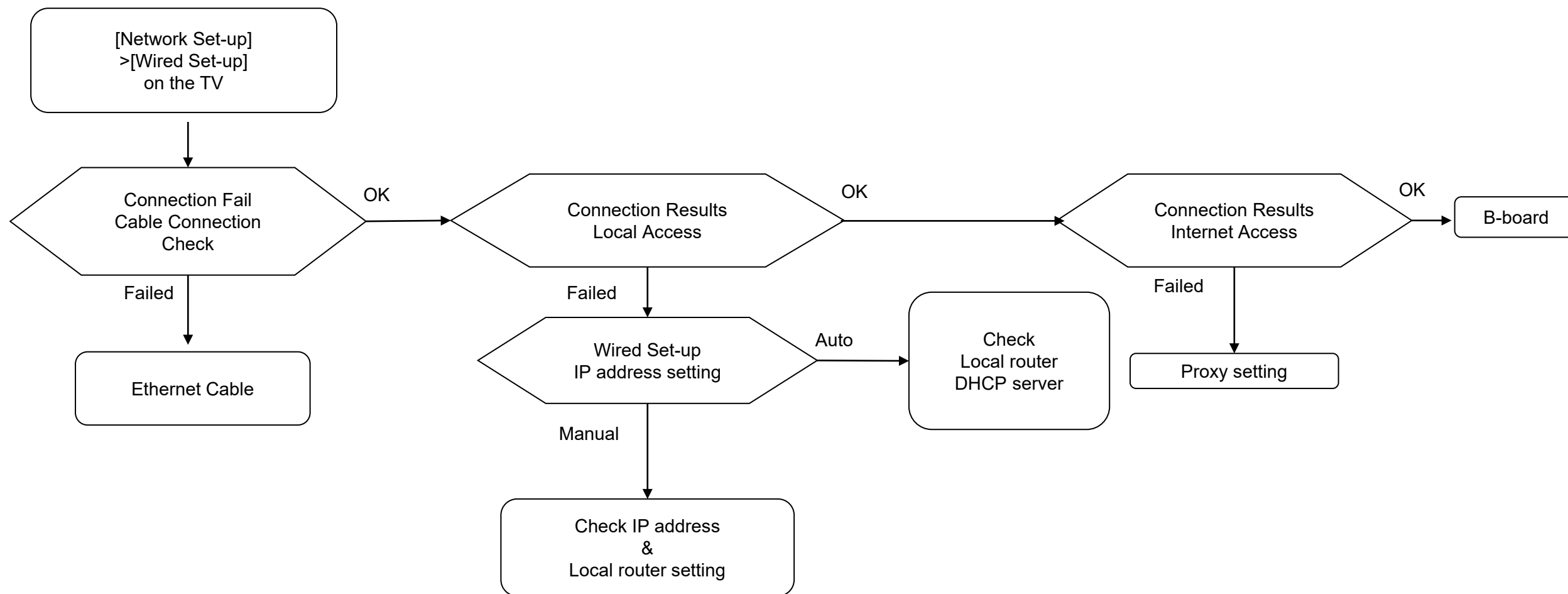
TROUBLESHOOTING

5.3 CAS ID Unknown



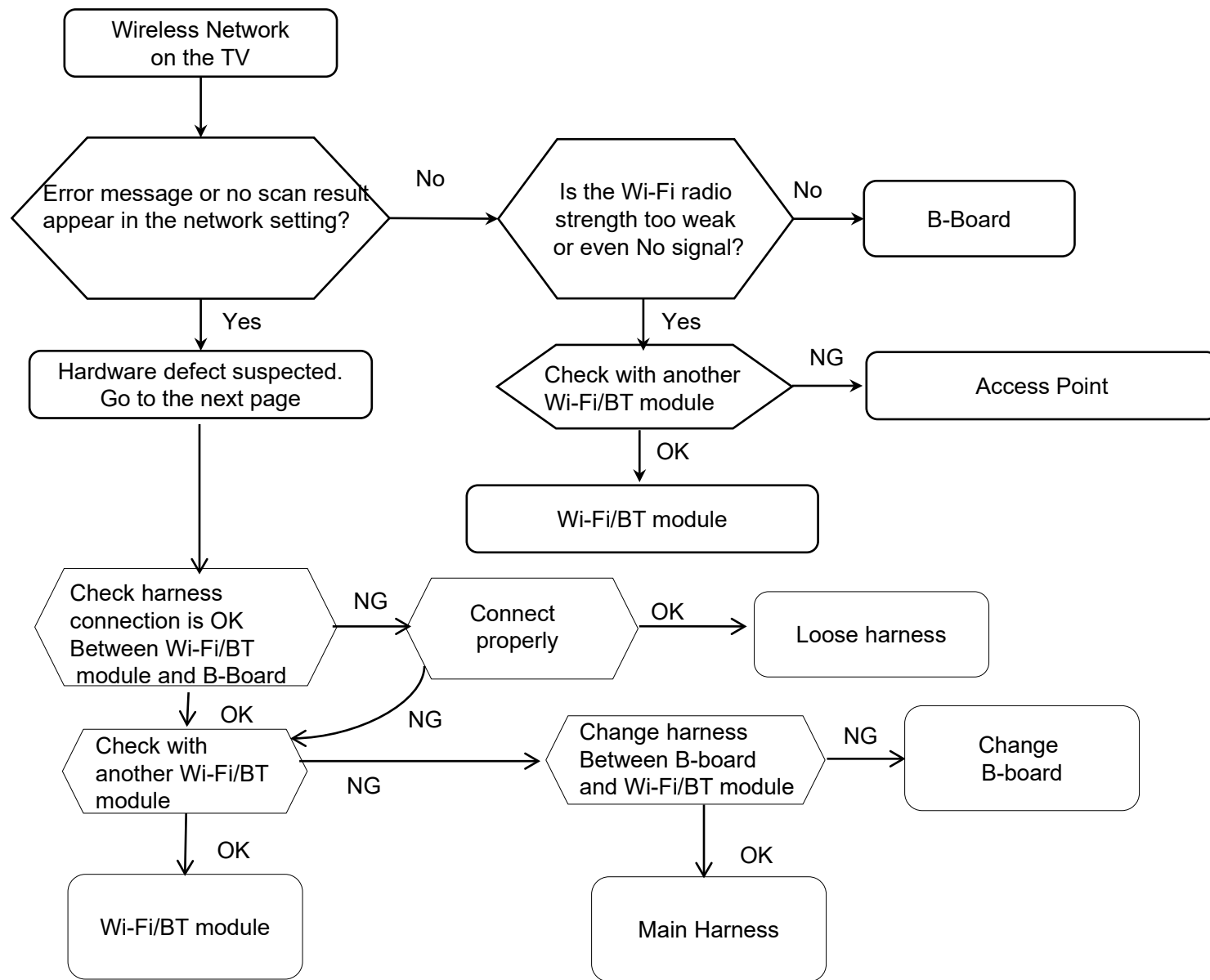
TROUBLESHOOTING

6.0 Network Malfunction – Ethernet Wired



TROUBLESHOOTING

6.2 Wireless Network Malfunction

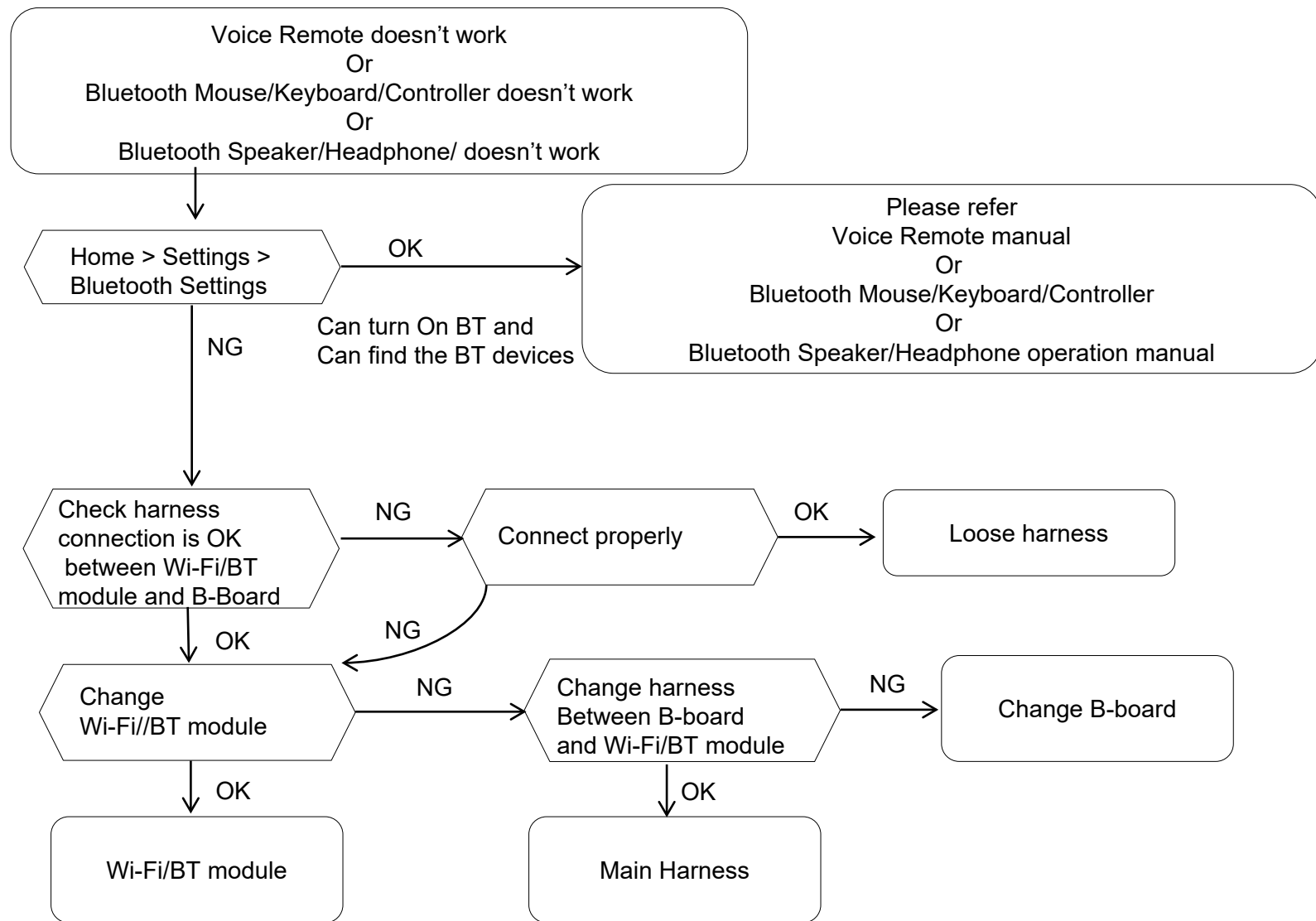


If Wi-Fi malfunction happens,

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

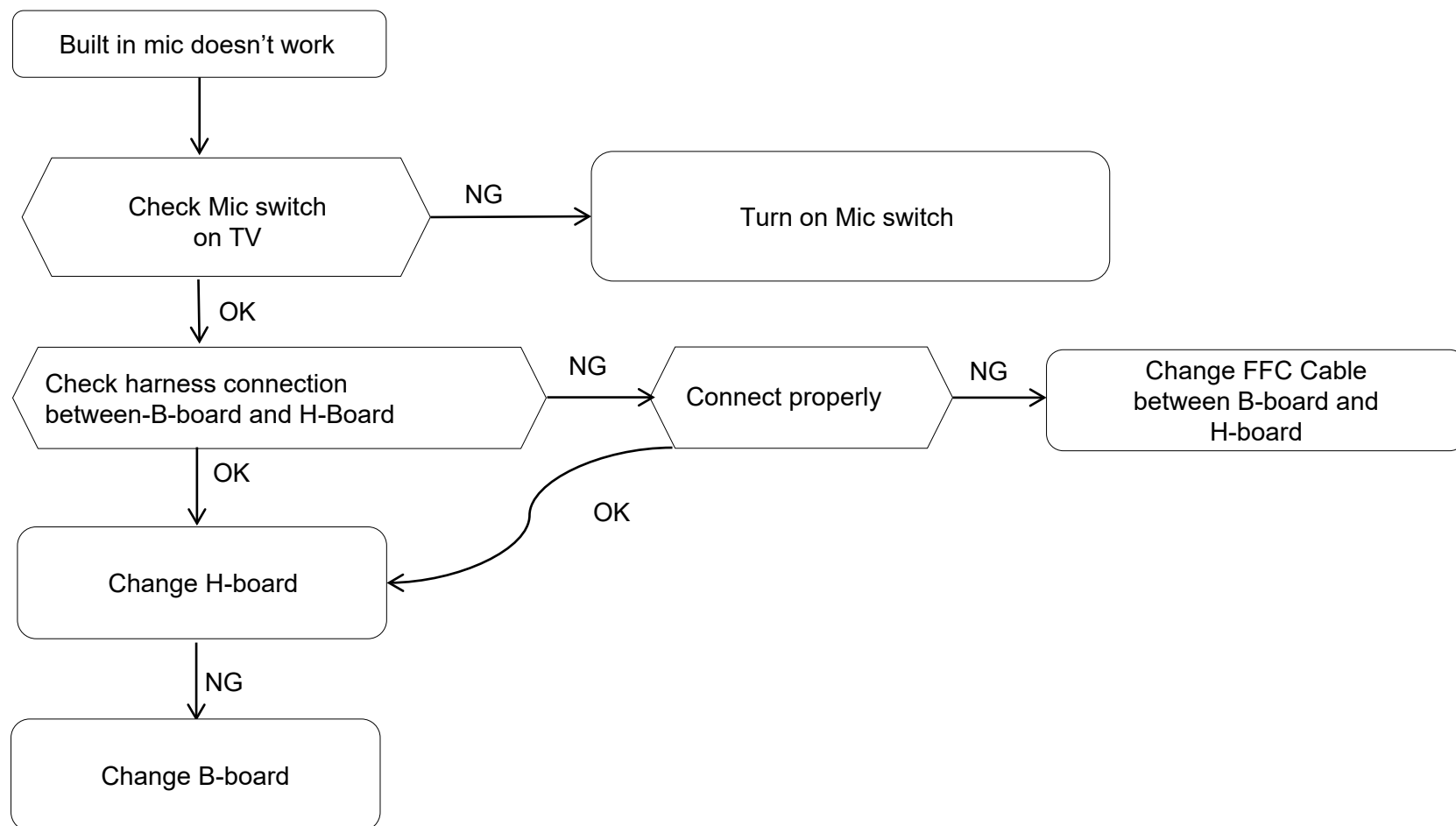
TROUBLESHOOTING

6.3 Bluetooth Malfunction



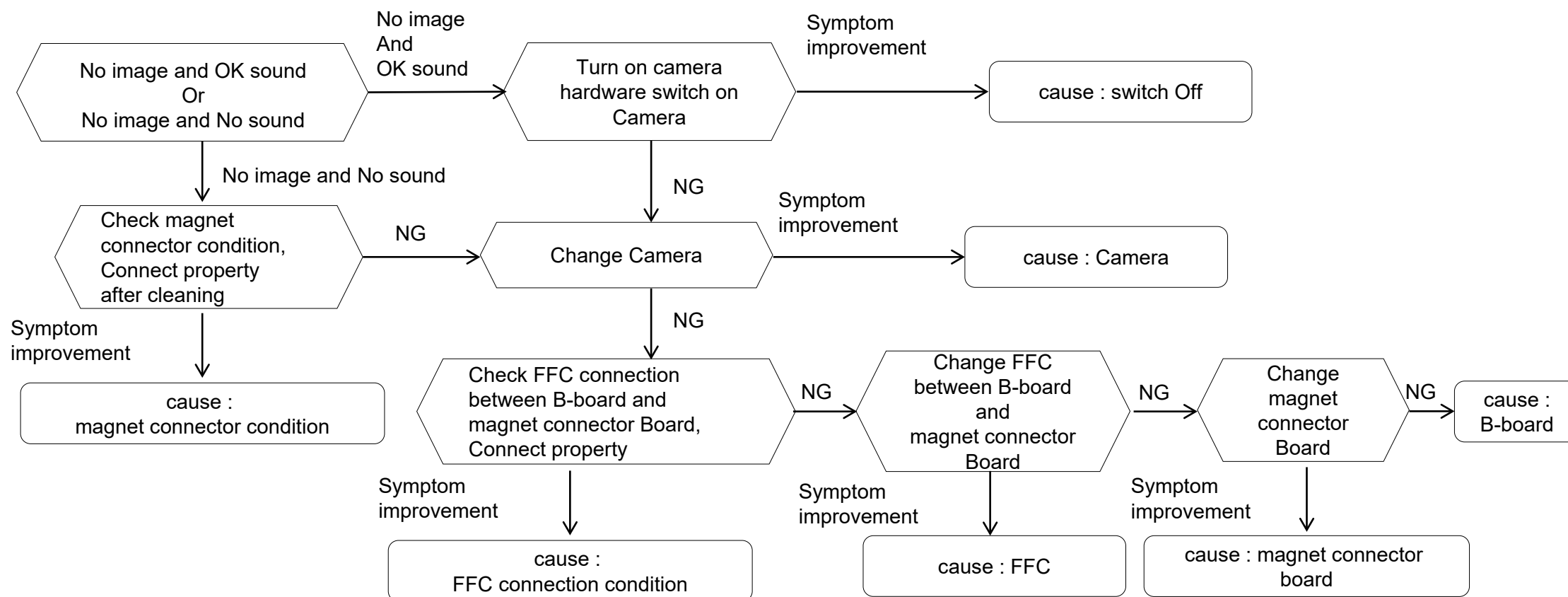
TROUBLESHOOTING

6.4 Built in MIC Malfunction



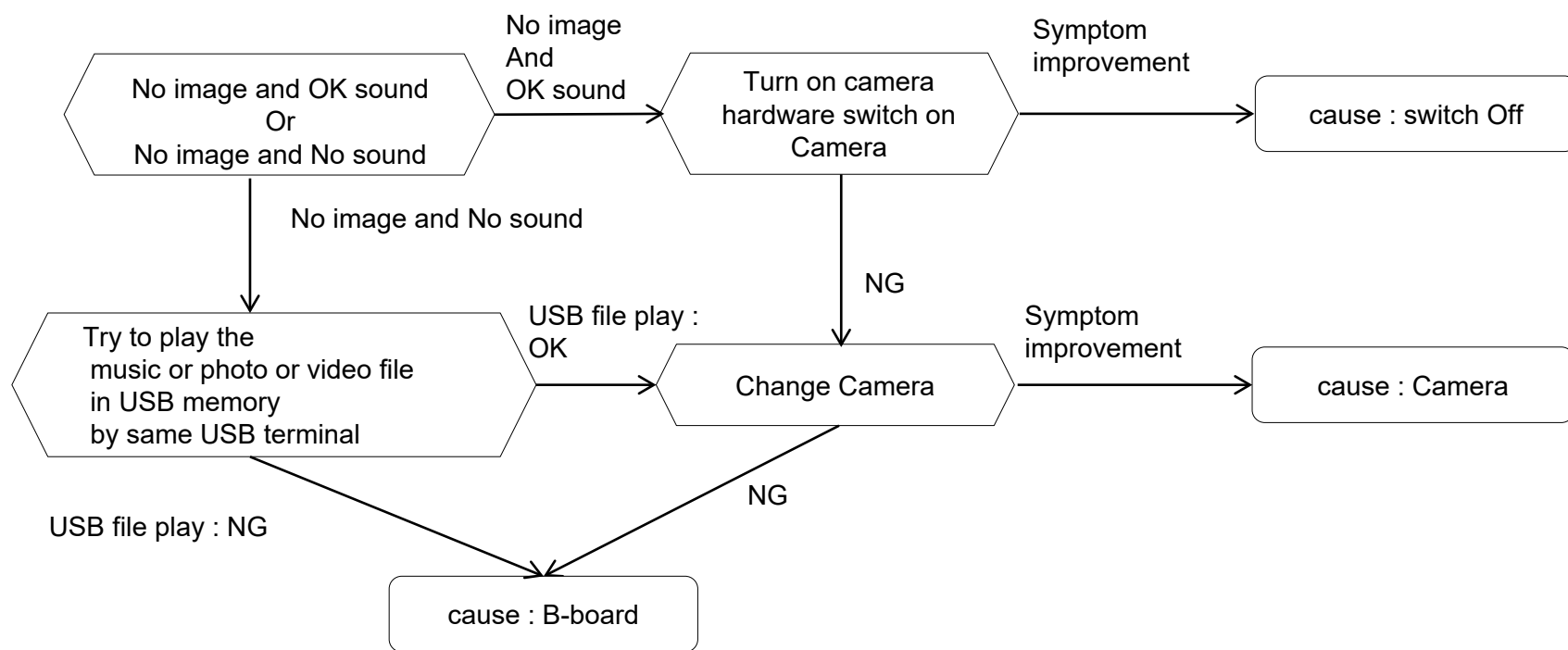
TROUBLESHOOTING

6.5 Magnet connector type Camera (Bundle)



TROUBLESHOOTING

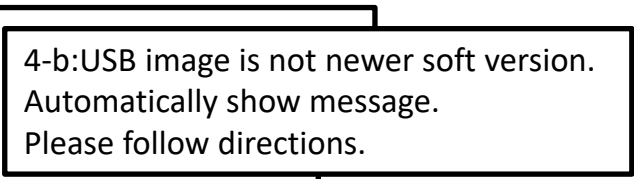
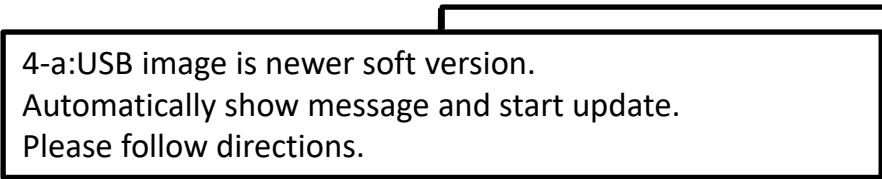
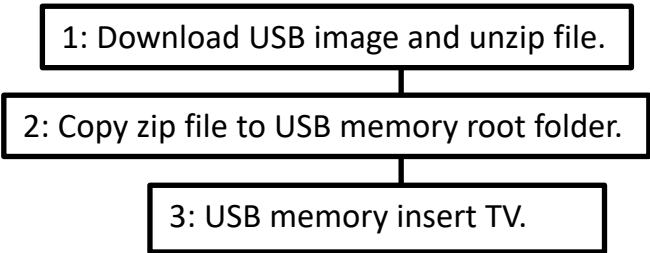
6.5 USB connector type Camera (Accessory)



SOFTWARE UPDATE & RESET

USB Update

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



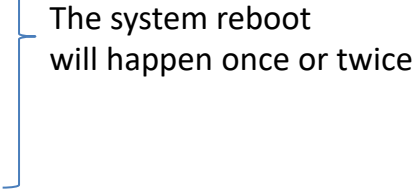
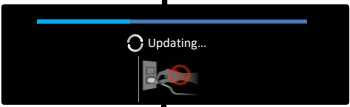
Updating your TV software... 46%

During the software update, you can't use this TV. When the software update completes, the Illumination LED stops blinking and your TV restarts automatically. Please do not remove the USB flash drive until this blinking stops. The update takes about 10 minutes to complete. Press the BACK button on your remote control to cancel the update.

System software update

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

OK

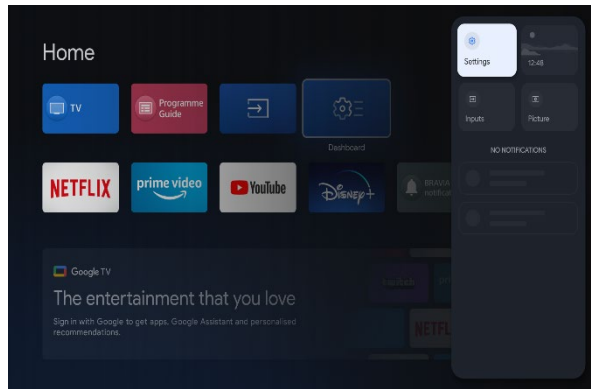


※ Display may change depending on the model / SW version.

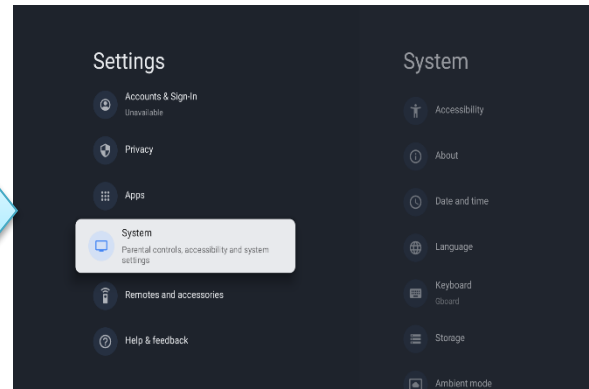
SOFTWARE UPDATE & RESET

Factory Data Reset – with UI method

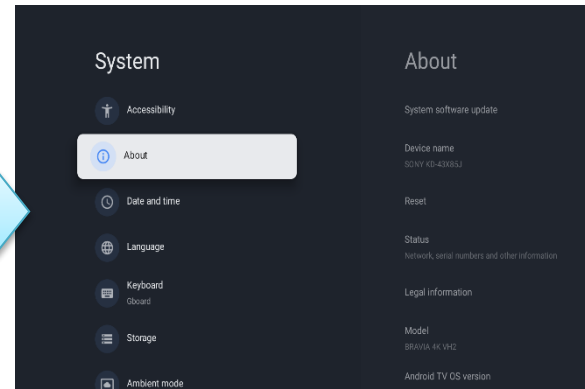
1. At Home Menu, go to Settings



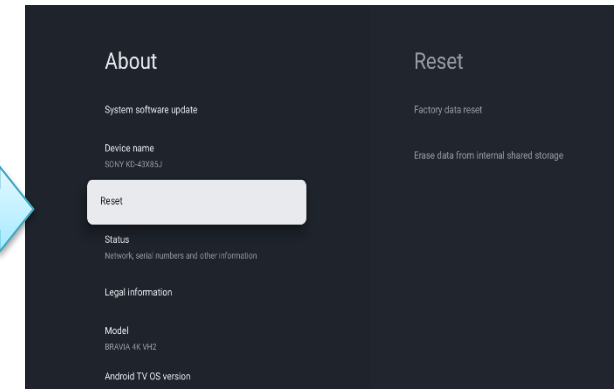
2. Select System / Device Preferences



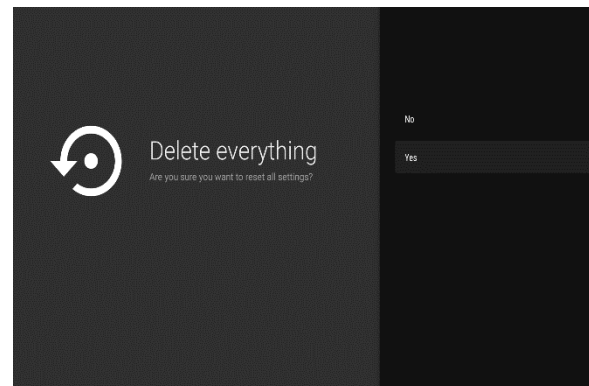
3. In 'System', select 'About'.



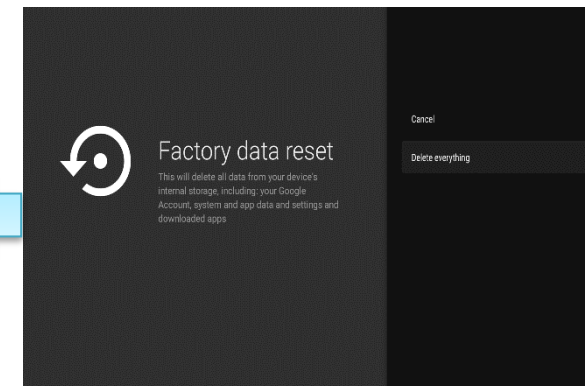
4. In About, Select 'Reset'



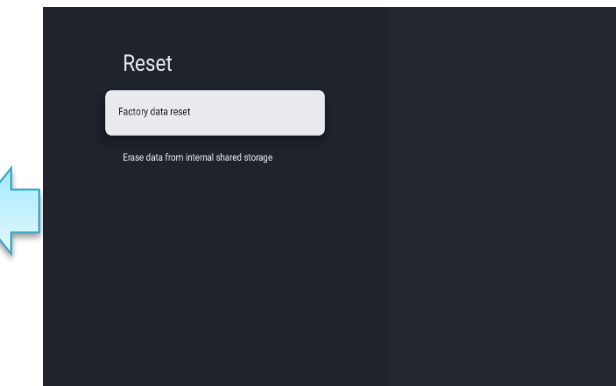
7. Select 'Yes'



6. Select 'Delete everything'



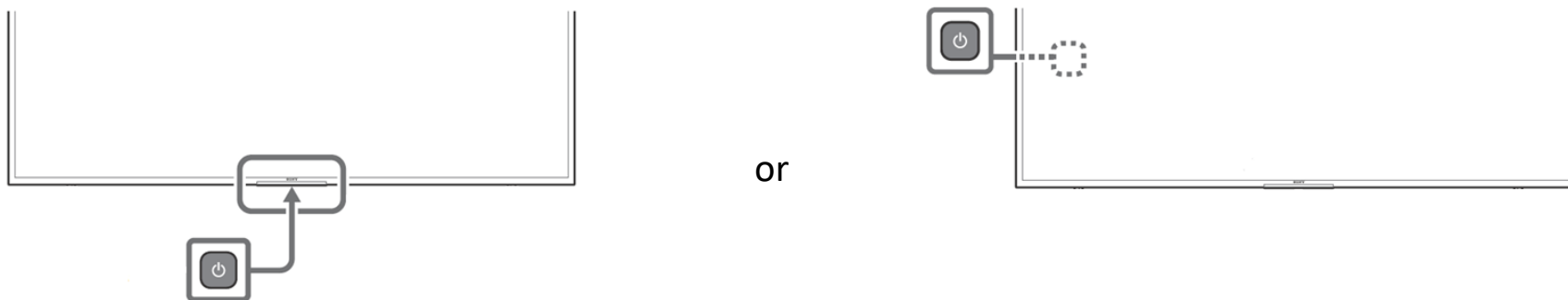
5. In Reset, Select 'Factory data reset'



SOFTWARE UPDATE & RESET

Factory Data Reset – force method (without UI)

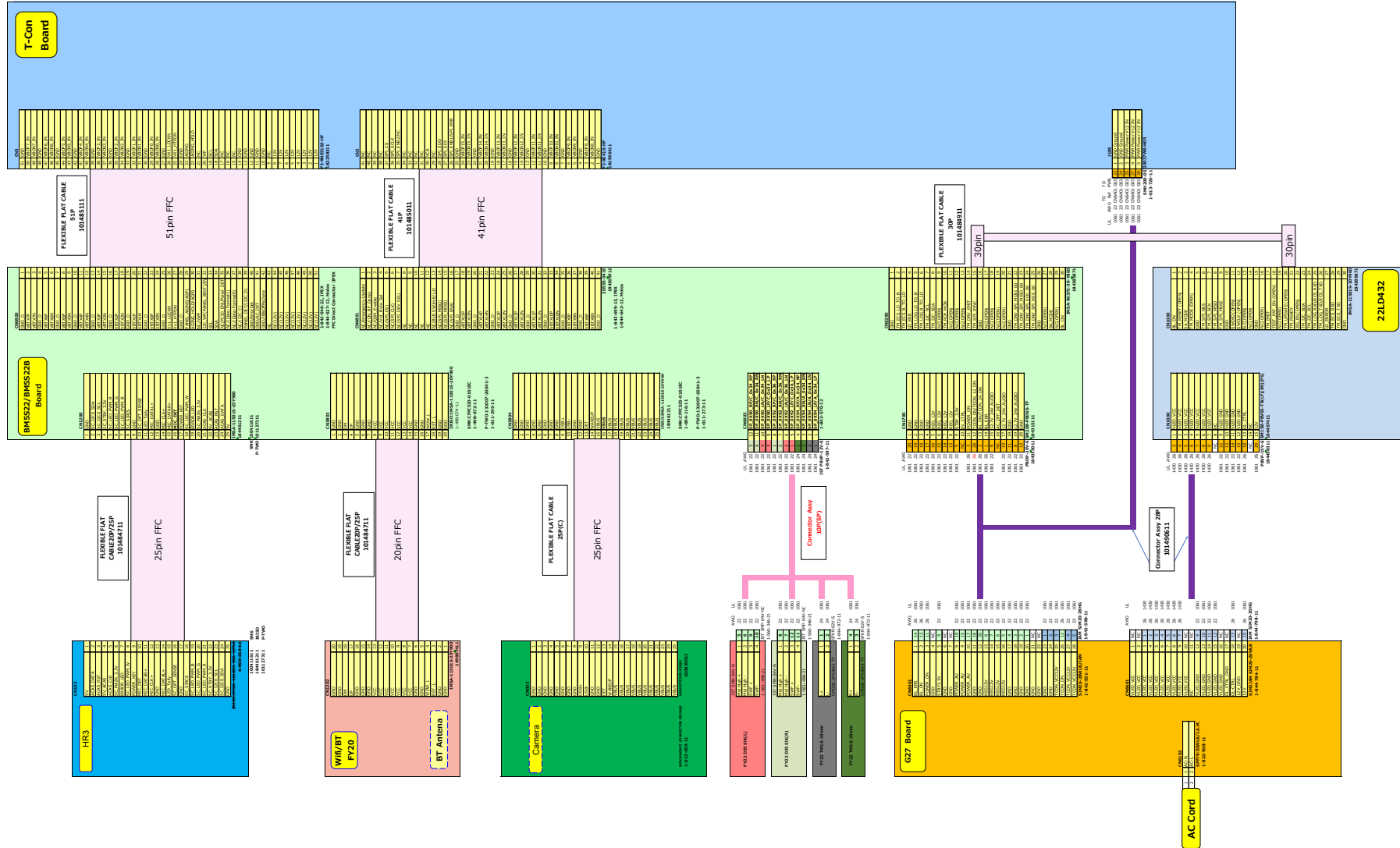
1. Press and hold the Power button. (The position of the Power button depends on the model.)



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

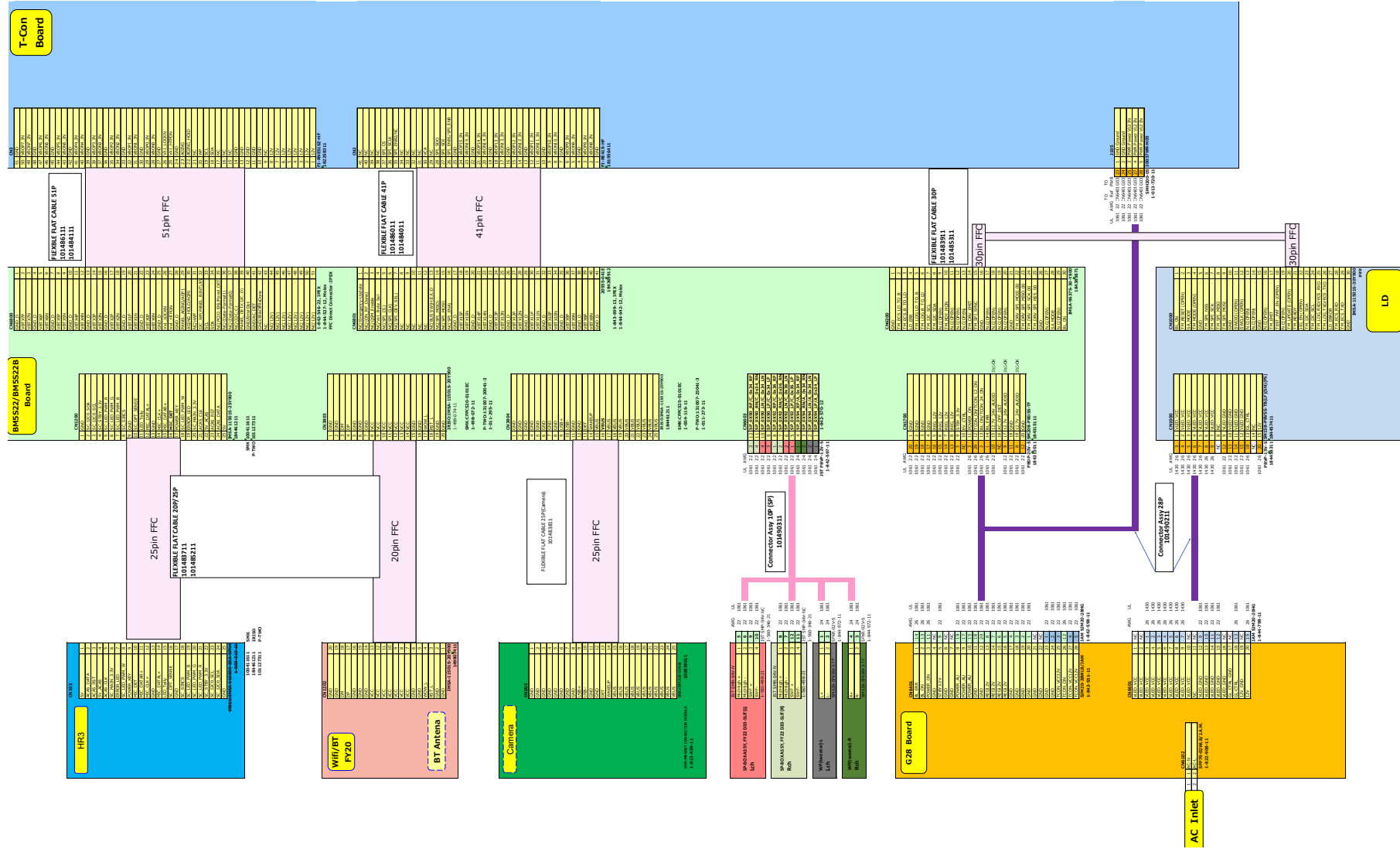
DIAGRAM

65" Connecting Diagram



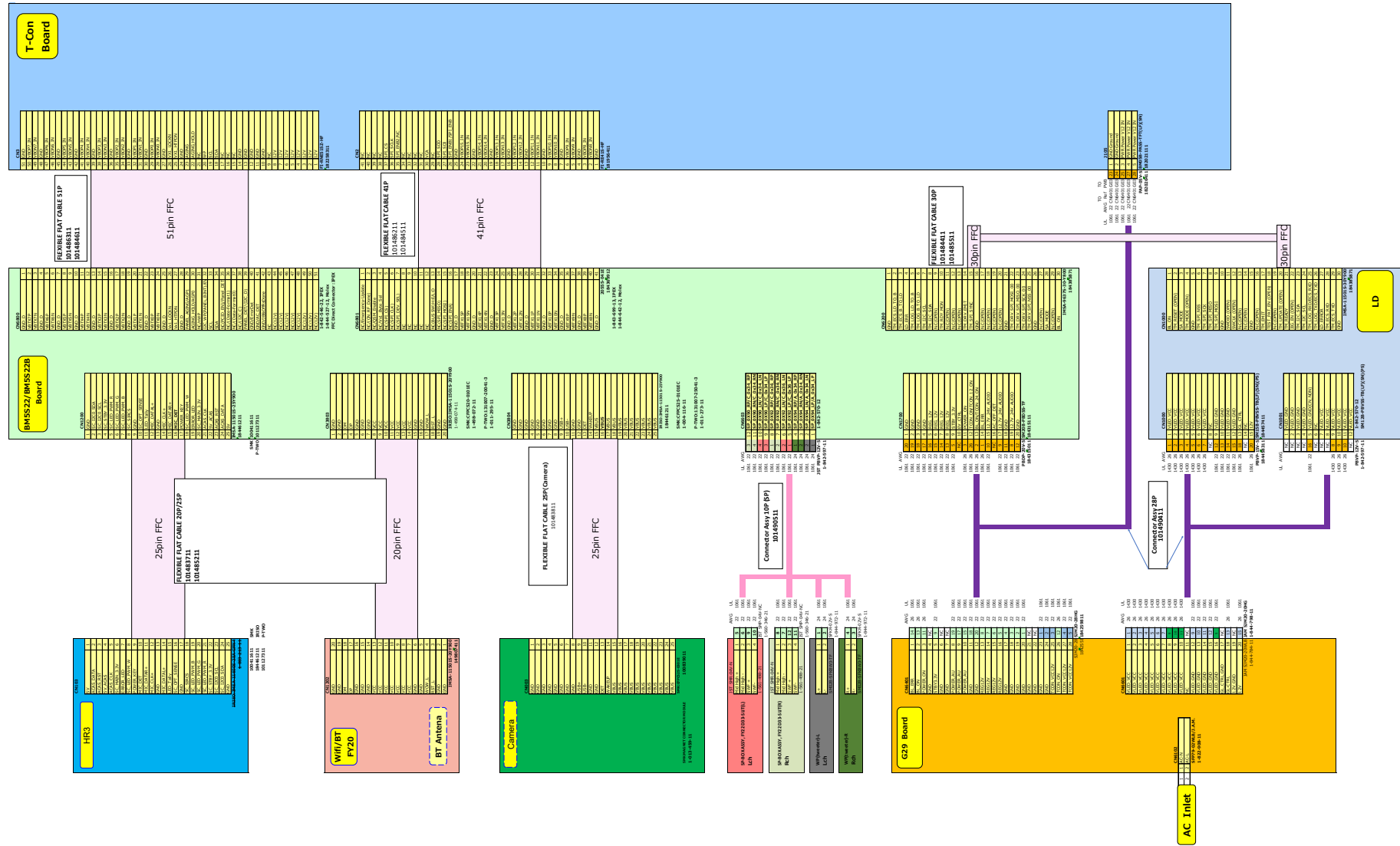
DIAGRAM

75" Connecting Diagram



DIAGRAM

85" Connecting Diagram



HANDLING GUIDE

1. Holding Position



OK

Always wear gloves during P-mod handling



OK

Holding edge of Bezel without touching O-cell



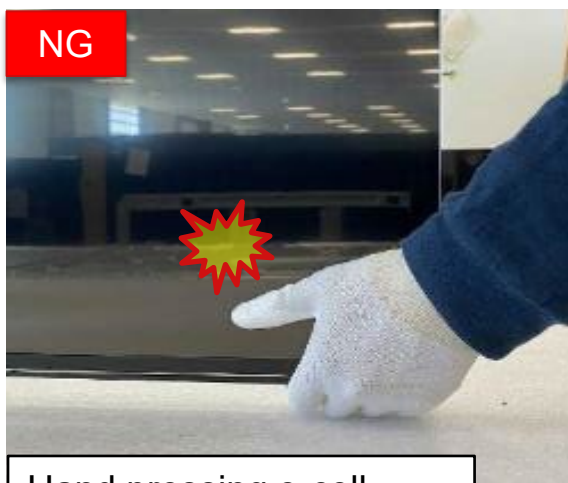
OK

Support set at edge of Bezel without touching O-cell



NG

Hand pressing O-cell



NG

Hand pressing o-cell

HANDLING GUIDE

2. Carry Position



Carry P-mod by vertical position



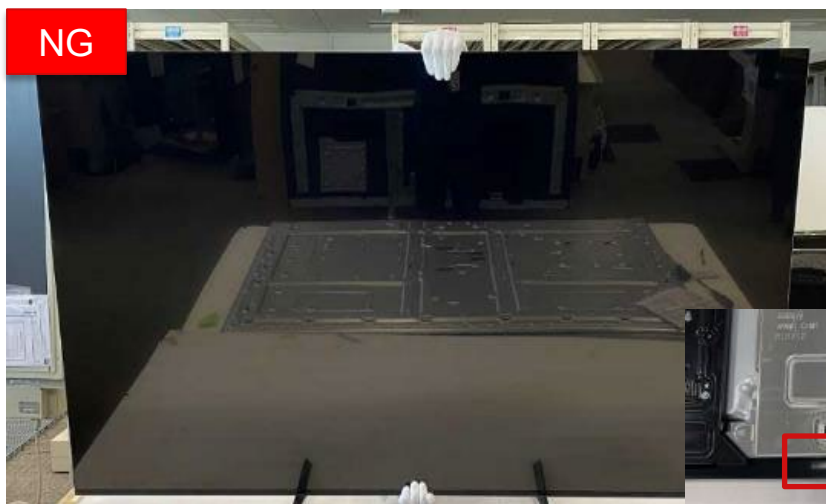
Carry P-mod by 2 persons



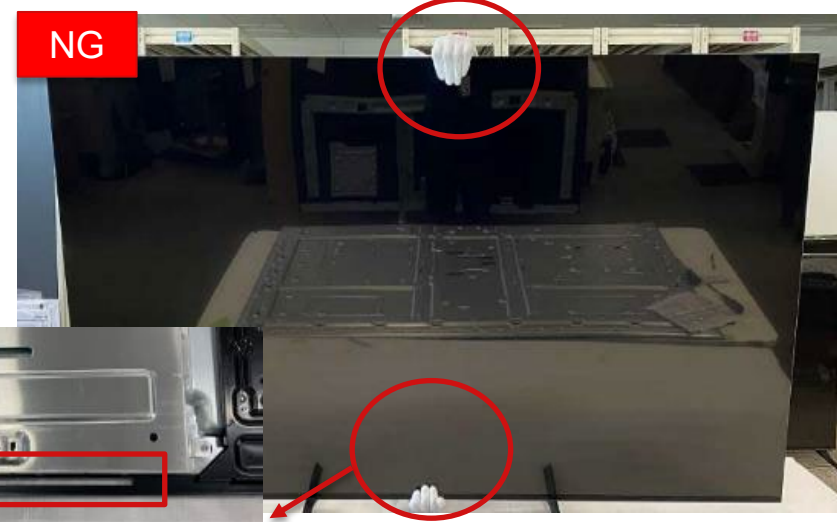
Carry P-mod by corners



Carry P-mod by horizontal position



Carry P-mod by 1 person



It is easy to deform by holding in this area

Carry P-mod at center area

HANDLING GUIDE

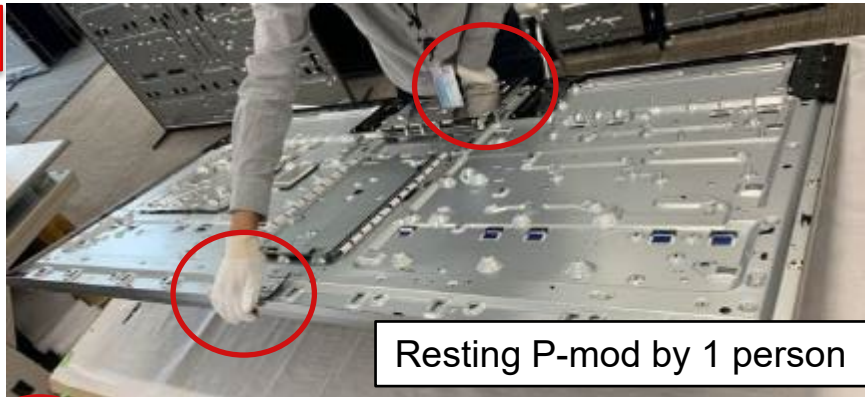
3. Resting Position

OK



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

NG



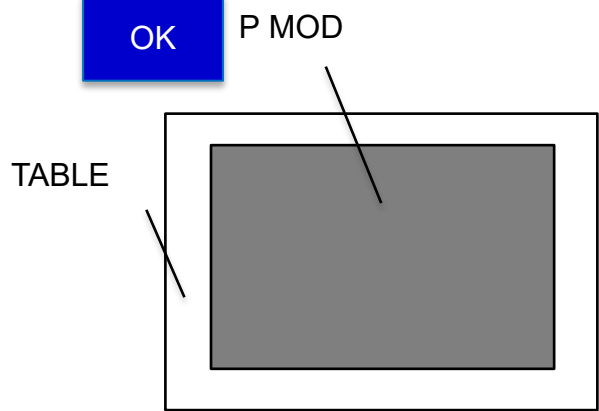
Resting P-mod by 1 person



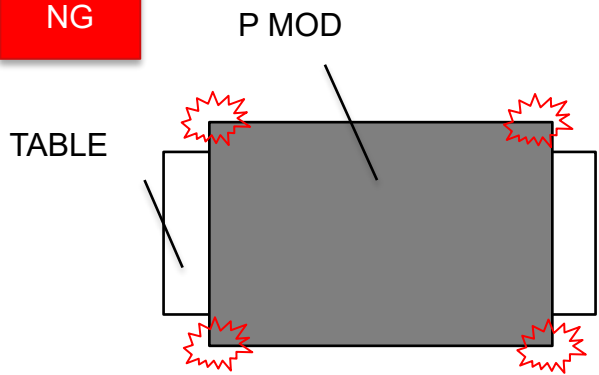
Resting P-mod by 2 persons
(Hold **short** sides)

Top of View when panel pun on top of table

OK



NG



HANDLING GUIDE

4. Prohibited Method



Handle P-mod without gloves



Press on P-mod during Assy & Disassy

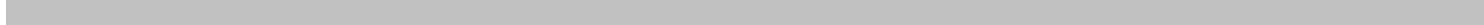
HANDLING GUIDE

5. Restricted Area



Rear cover
hook

Avoid touch Rear cover hook during P-mod handling



SERVICE MANUAL (DISASSEMBLY)

ORIGINAL MANUAL ISSUE DATE: 2023.12

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9-888-904-U1

LCD TV

SONY®

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

MODEL LISTS

| Model | Remote | Destination |
|------------|------------|-------------|
| XR-65X95K | RMF-TX800U | UCM |
| XR-65X93L | RMF-TX810U | UC2 |
| XR-65X93CL | RMF-TX910U | UC2 |
| XR-75X95K | RMF-TX800U | UCM |
| XR-75X93L | RMF-TX810U | UC2 |
| XR-75X93CL | RMF-TX910U | UC2 |
| XR-85X95K | RMF-TX800U | UCM |
| XR-85X93L | RMF-TX810U | UC2 |

Self Diagnosis
Supported model

RMF-TX800U



RMF-TX810U



RMF-TX910U



TABLE OF CONTENTS

Self Diagnosis
Supported model

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| SMART CORE | |
| EXPLODED VIEW AND PART LIST | 95 |

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

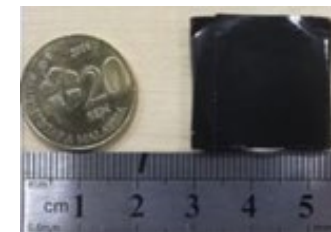
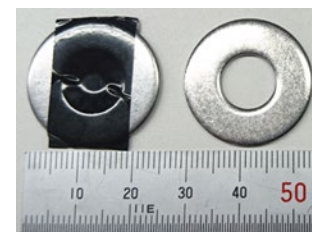
- i. Screwdriver (e.g., #2 Phillips Screwdriver)
- ii. Multimeter
- iii. ESD Wrist Straps
- iv. Metal Washer (Flat) or Coin (for remove Rear Cover)
- v. Ruler (for remove Rear Cover)
- vi. Service Manual (Disassembly) (for remove & replace details)

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)



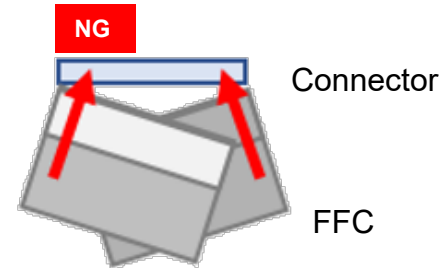
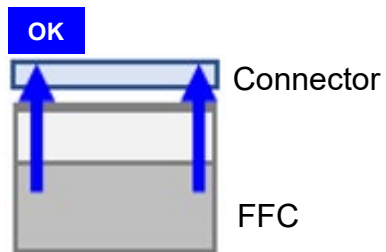
FFC PRECAUTIONS

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

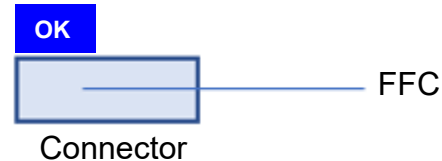
STRAIGHT INSERT



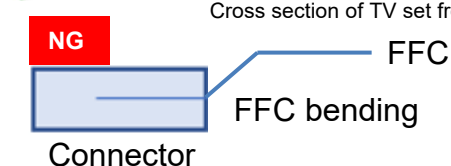
INSERT FFC IN STRAIGHT CONDITION

DO NOT INSERT FFC IN SLANTING CONDITION

INSERT ANGLE



<15°

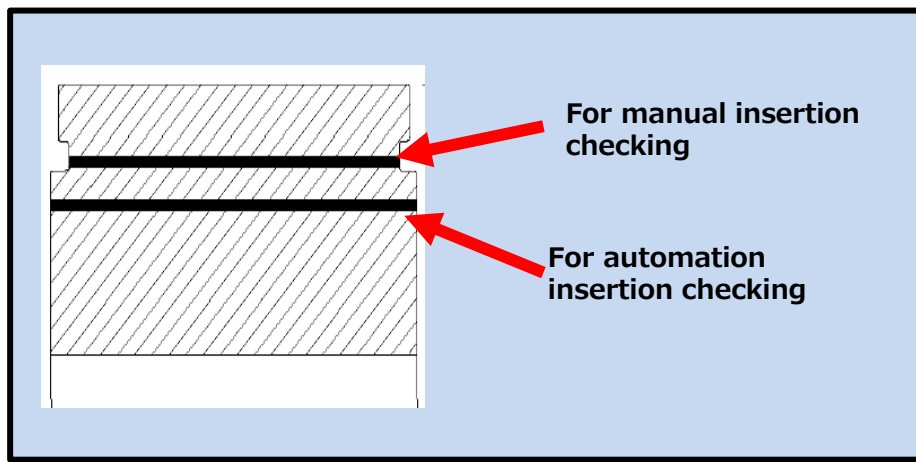


DO NOT APPLY EXCESSIVE FORCE DURING INSERTION

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

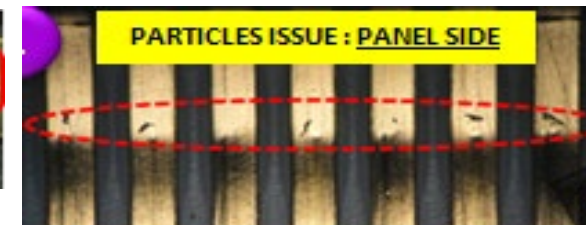
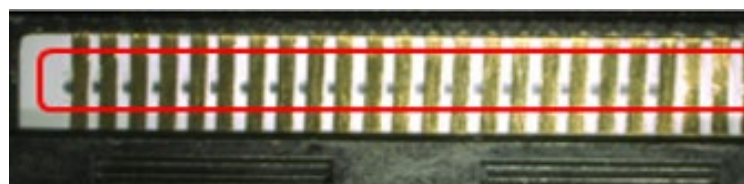
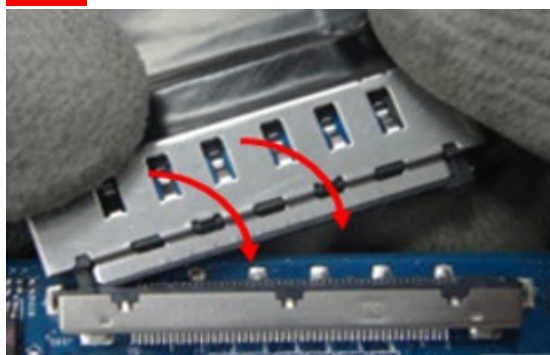
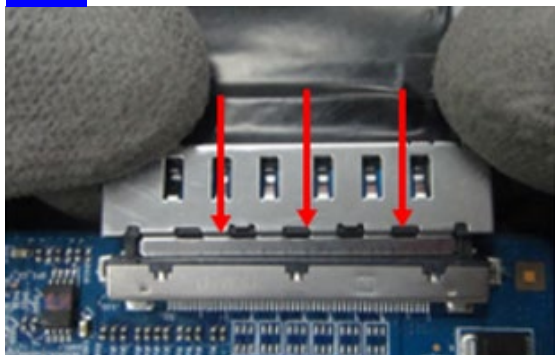
Caution for FFC with Housing Connector

CAUTION FOR FFC WITH CONNECTOR INSTALLATION AT PANEL SIDE

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

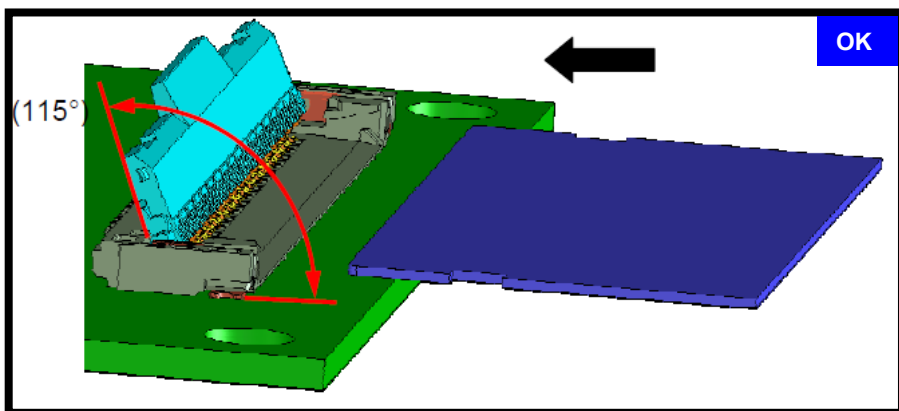
OK

NG

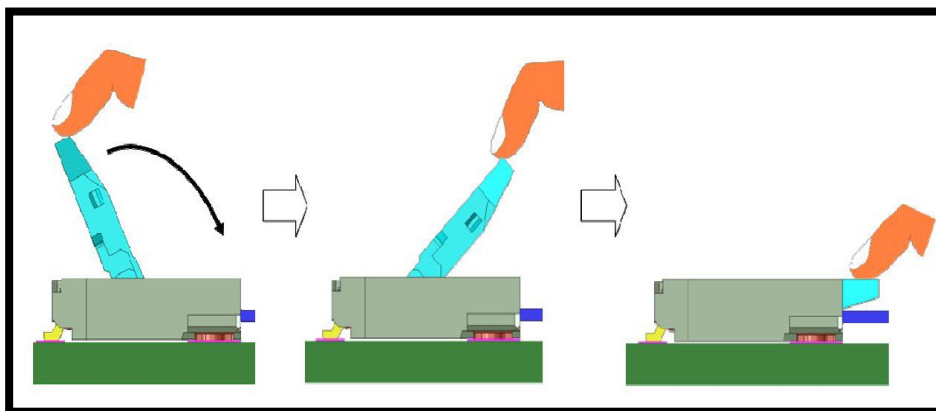


ZIFF FFC Insertion Caution

OK

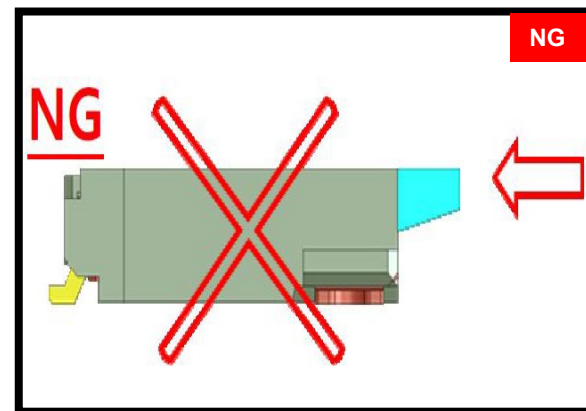


Pull up to open actuator.



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

NG



Do not push inwards with excessive force.

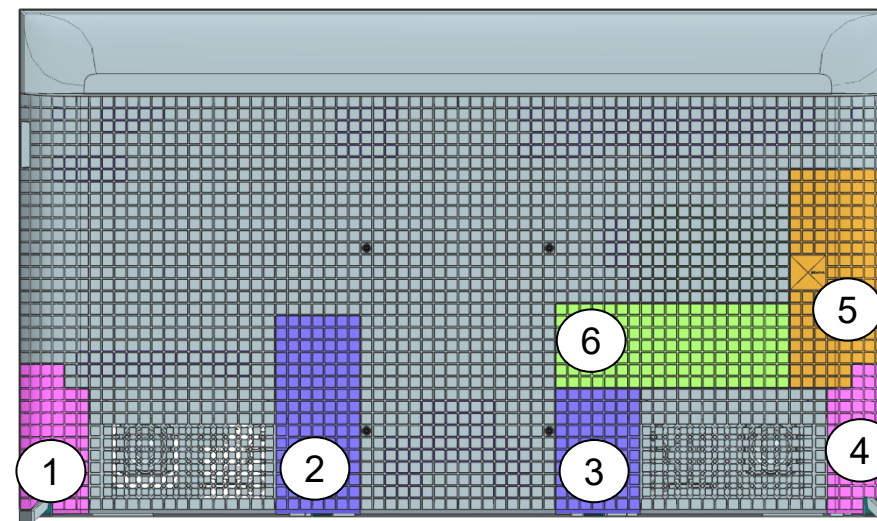
SECTION 1: XR-65X9*

1-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

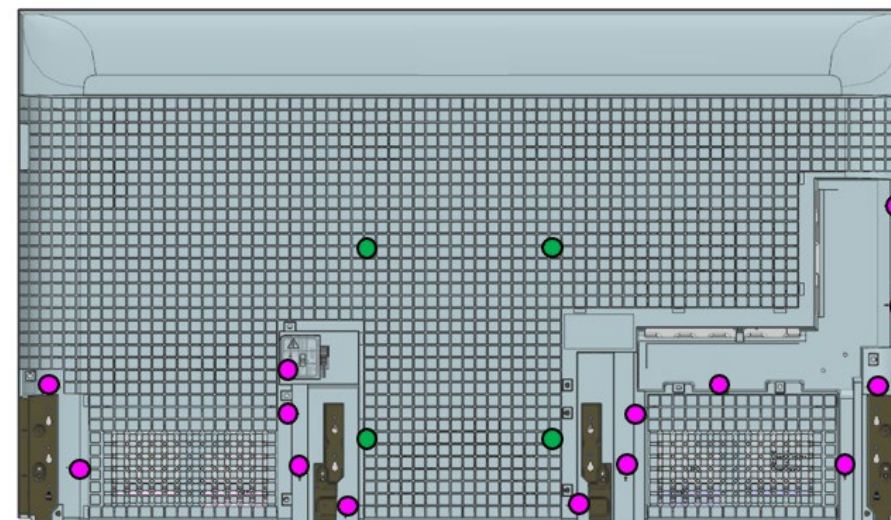
1. Remove Cover (6 Covers).

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



2. (i) Remove 18 screws

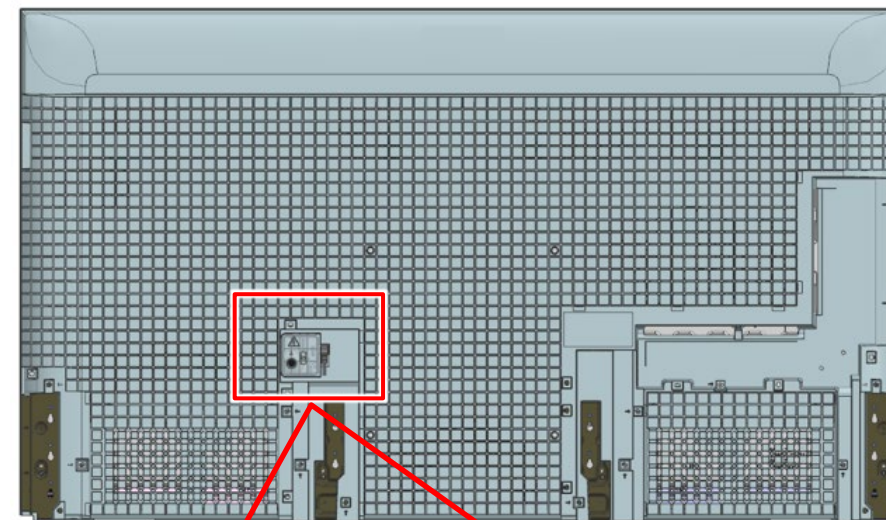
- SCREW, ORNAMENTAL M6X12 (4pcs)
- SCREW M3X3.0 STEP (14pcs)



SECTION 1: XR-65X9*

1-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

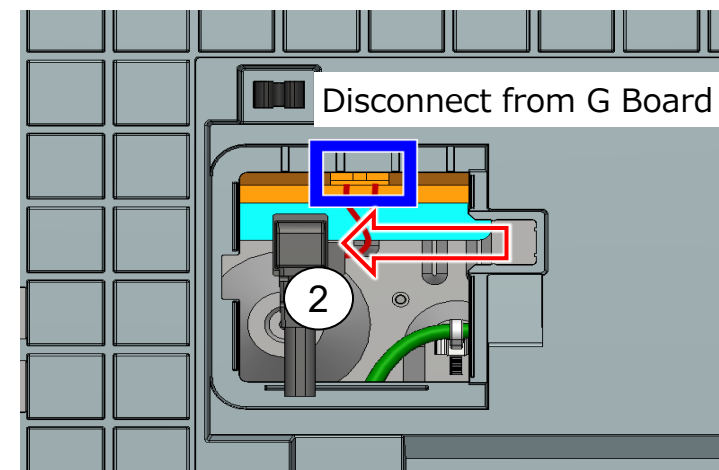
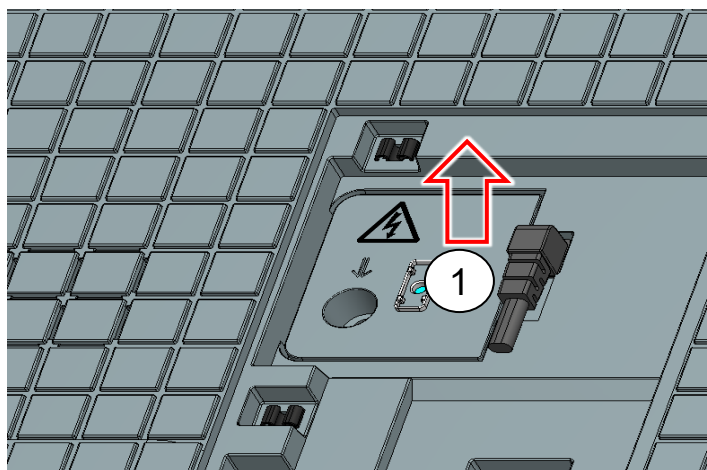


(ii) Remove AC cover.

① AC COVER (AT)

(iii) Remove Power Supply Code.

② POWER SUPPLY CODE

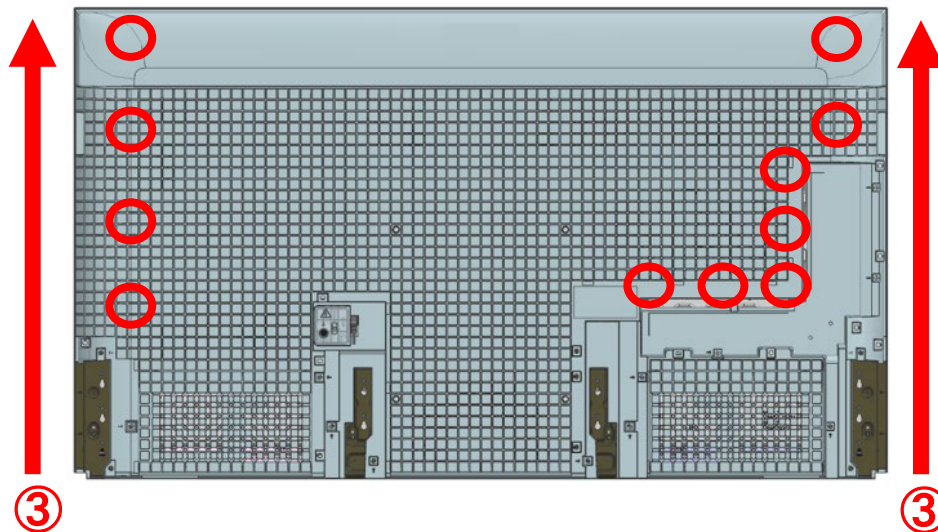


SECTION 1: XR-65X9*

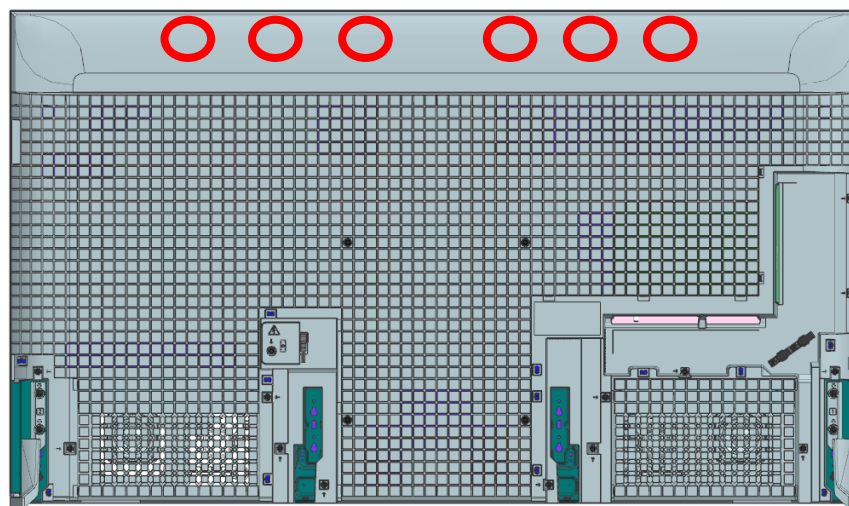
1-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

3. Release Side and Bracket Hook.



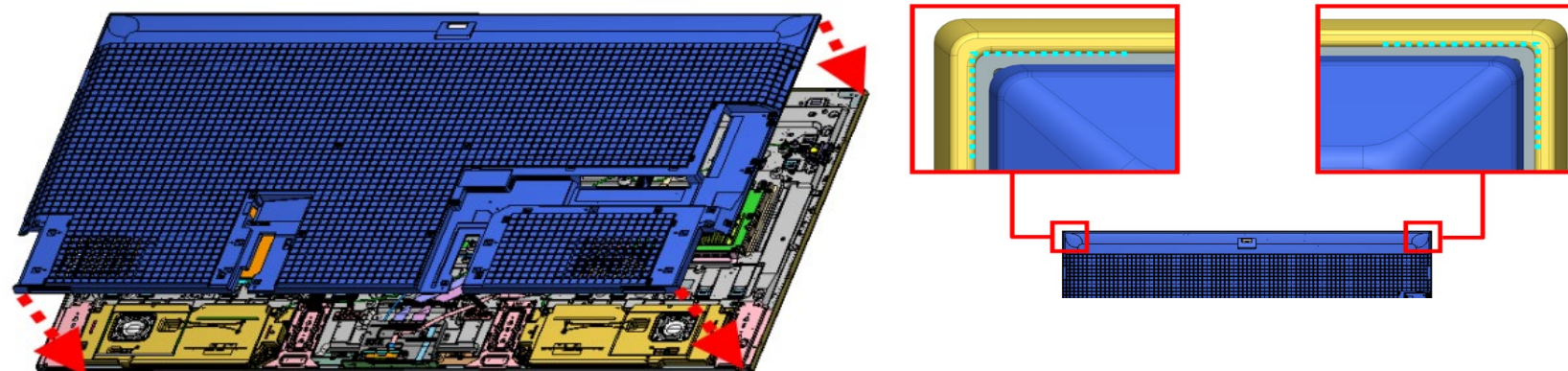
4. Release Top Hook (6 pcs).



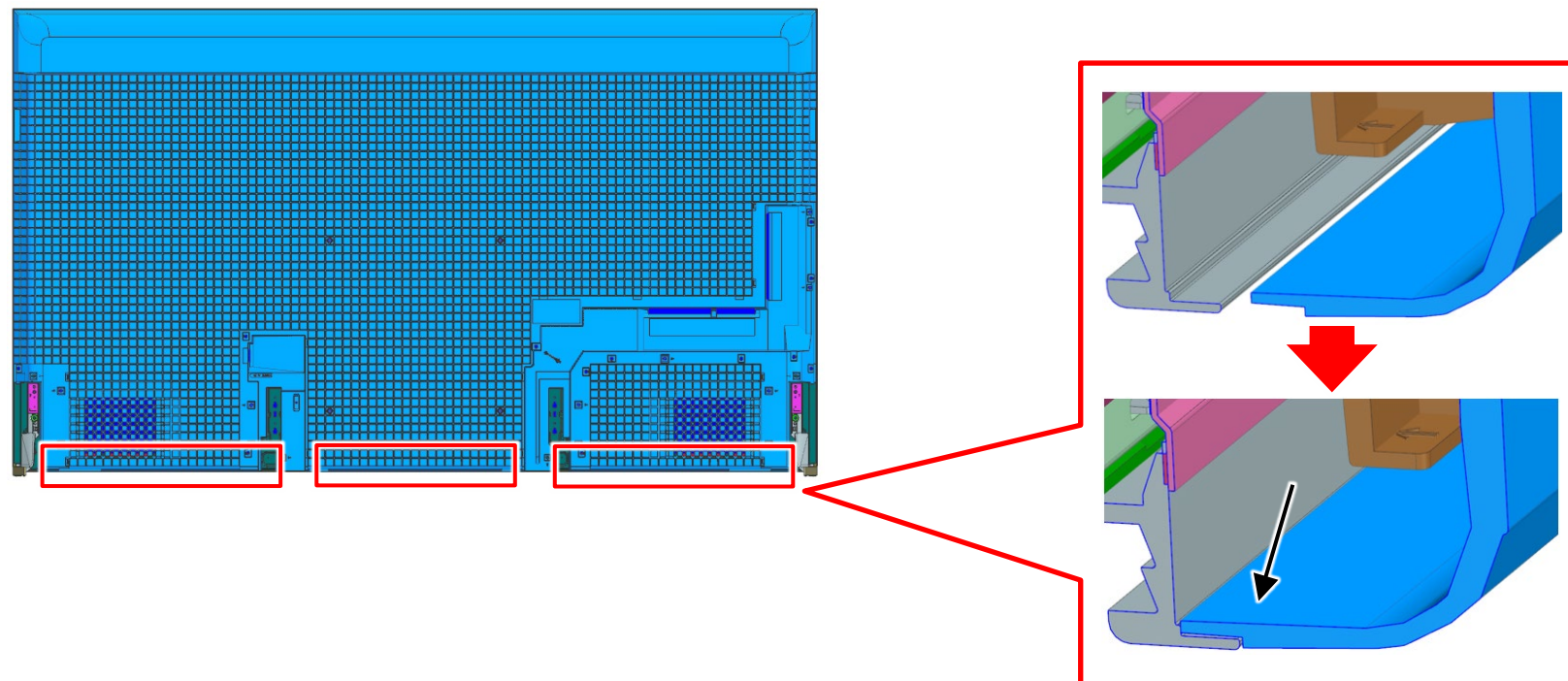
SECTION 1: XR-65X9***1-1. DISASSEMBLY AND REMOVAL CAUTION****REAR COVER**

1. Install REAR COVER.

- (i) REAR COVER aligning.
→ Don't overwrap to the BEZEL.



- (ii) Insert rib of the bottom to the BEZEL.

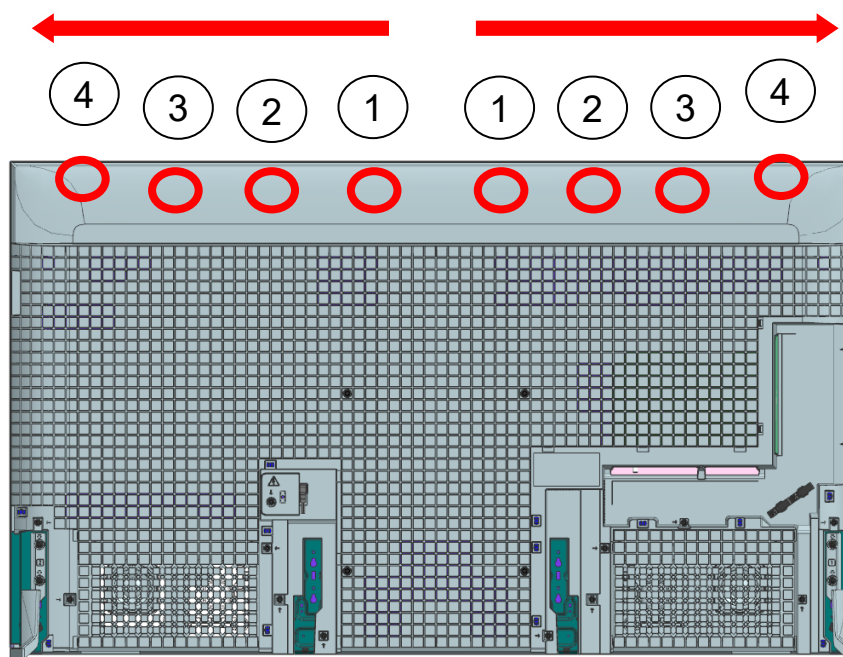


SECTION 1: XR-65X9*

REAR COVER

2. (i) Push and Lock Top Hook (pushing order) (8 pcs).

1-1. DISASSEMBLY AND REMOVAL CAUTION

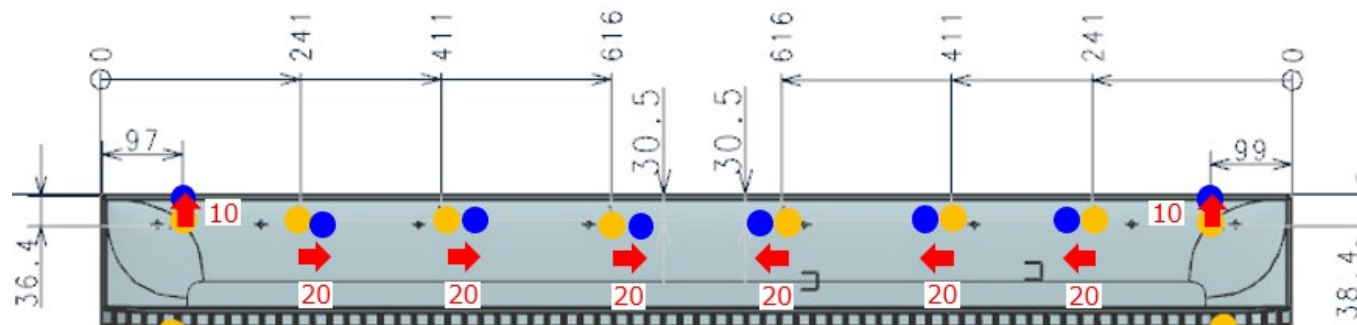


(ii) Push and Lock Top Hook (pushing position) (8 pcs).

Notice:

Please push the inside (10~20mm) of the hook because pushing the outside increases the insertion force.

- Hook position
- Push position

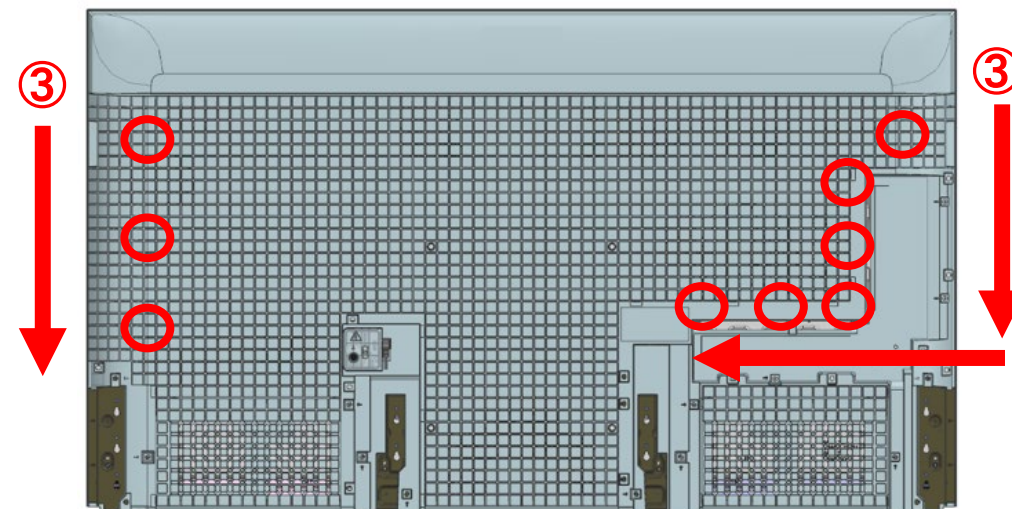


SECTION 1: XR-65X9*

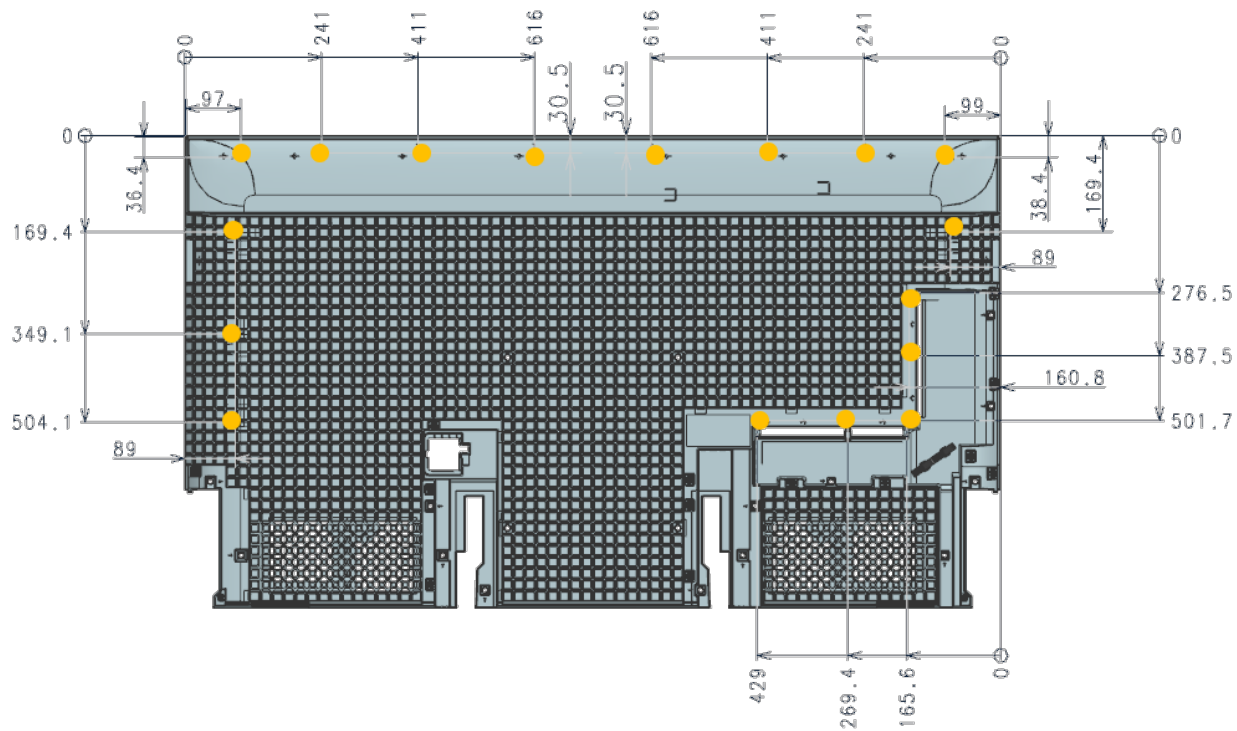
1-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

3. Push and Lock Side and Bracket Hook (pushing order).

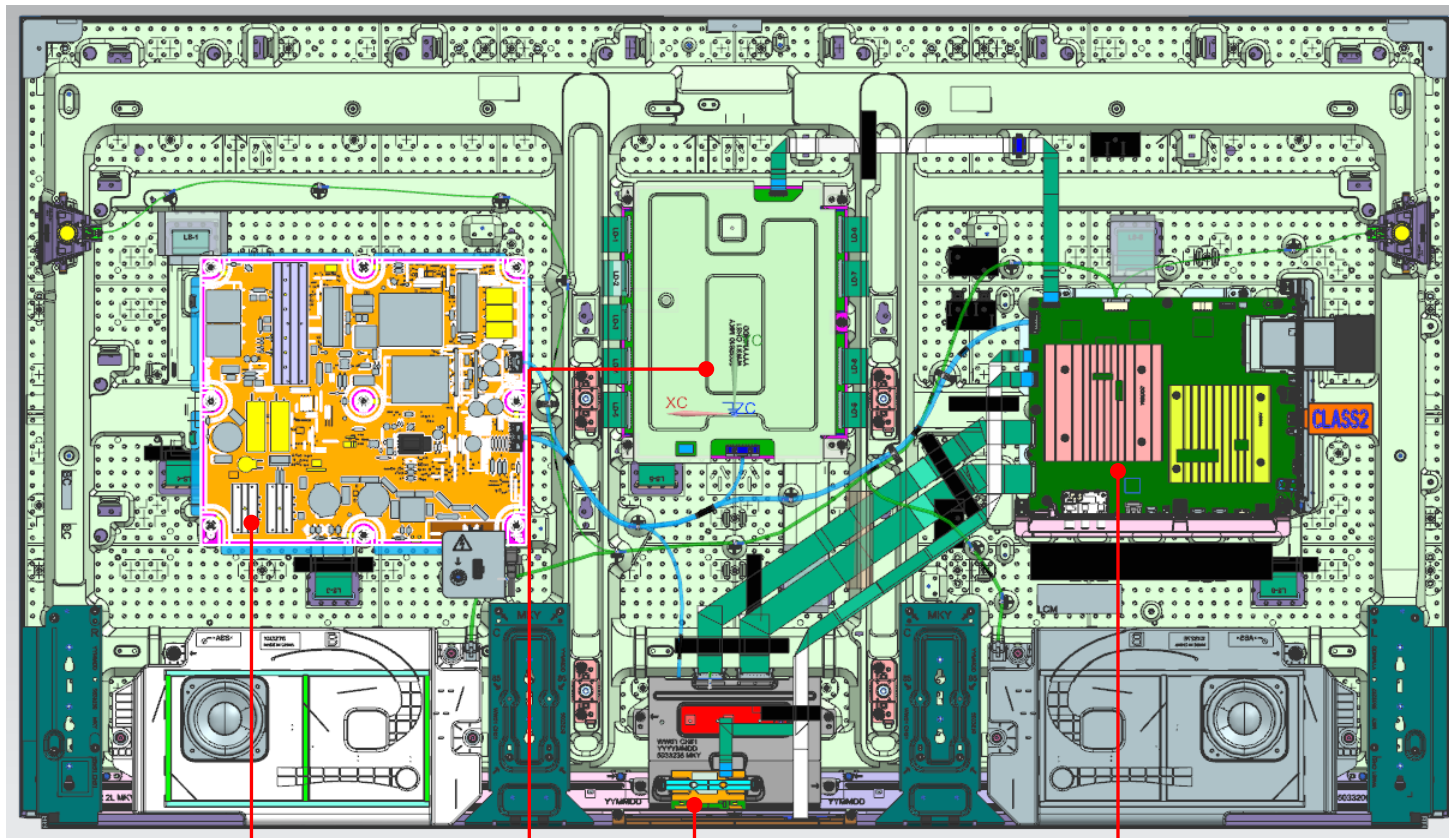


Hook Position.



SECTION 1: XR-65X9*

1-2. BOARD LOCATION

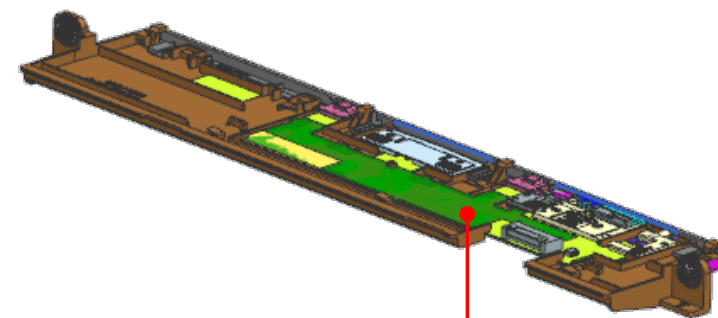


POWER BOARD

LD BOARD

WI-FI BOARD

MAIN BOARD

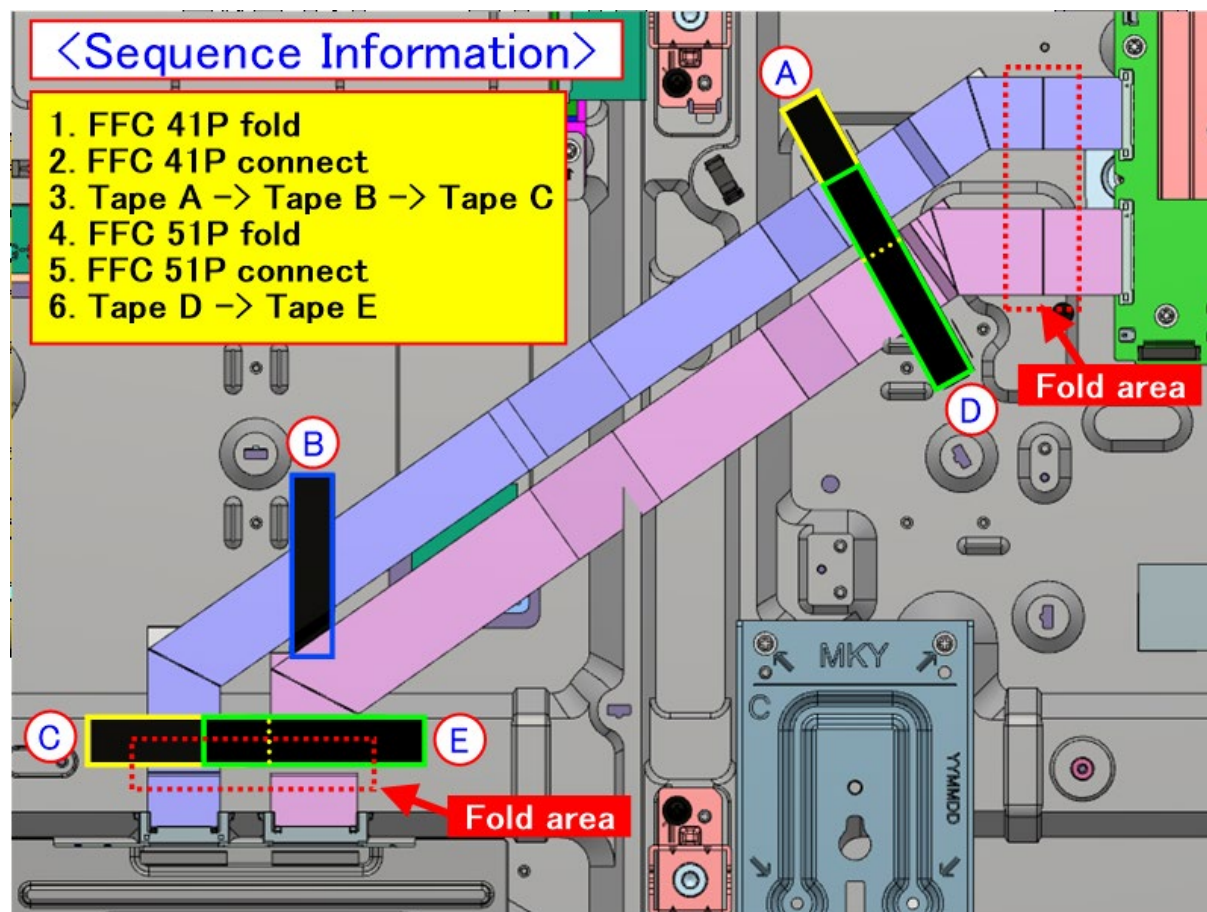


RECEIVER BOARD

SECTION 1: XR-65X9*

1-3. WIRE DRESSING

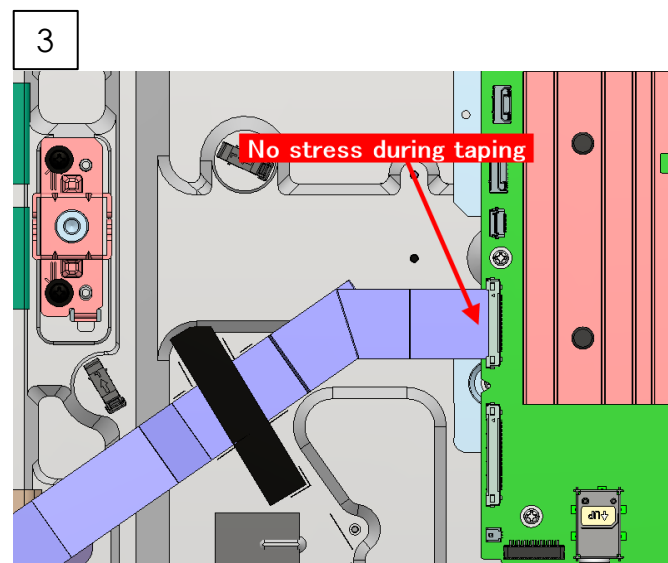
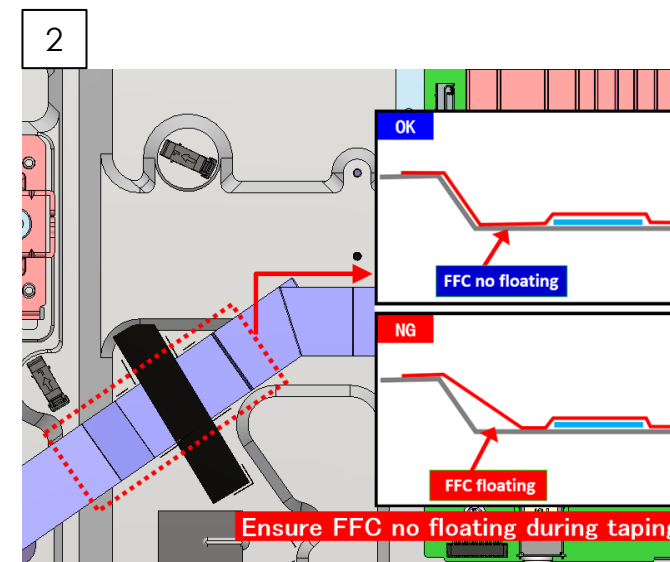
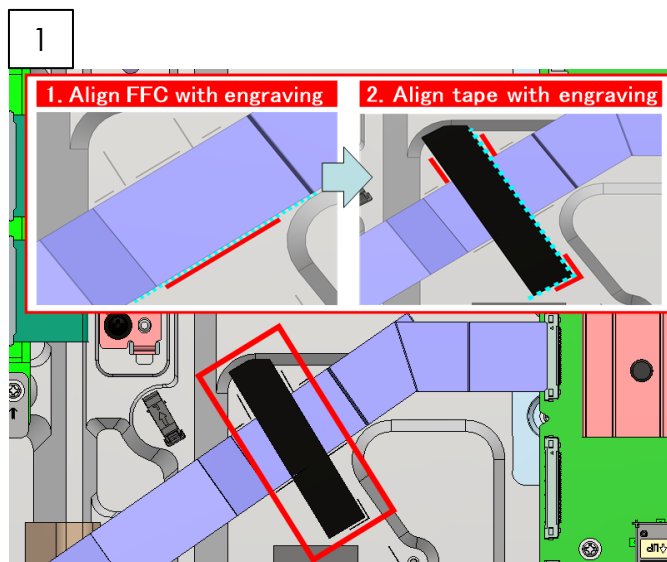
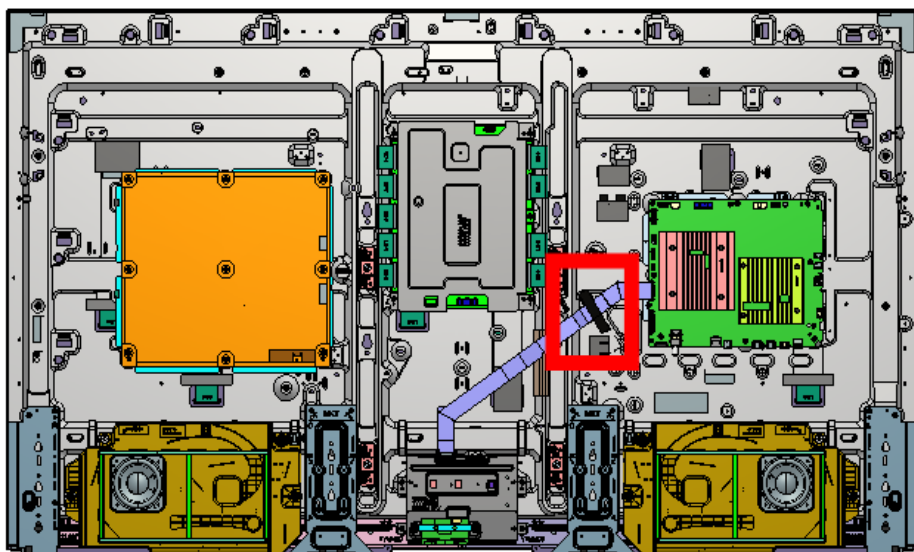
INFORMATION



SECTION 1: XR-65X9*

1-3. WIRE DRESSING

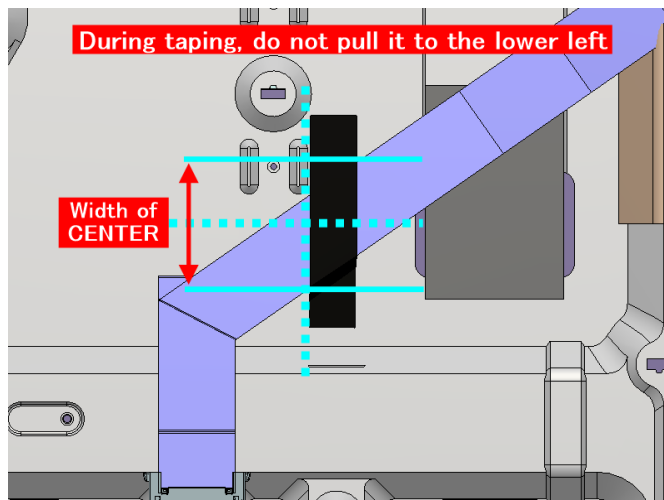
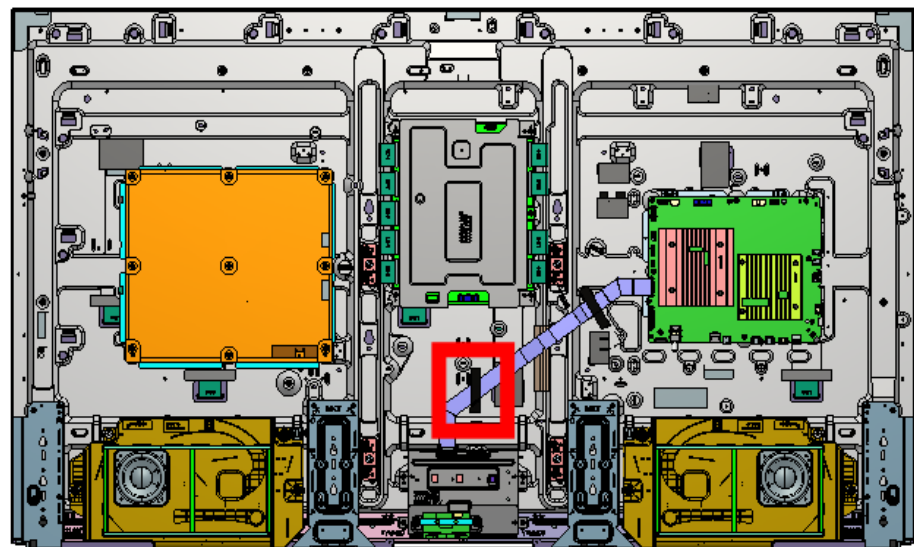
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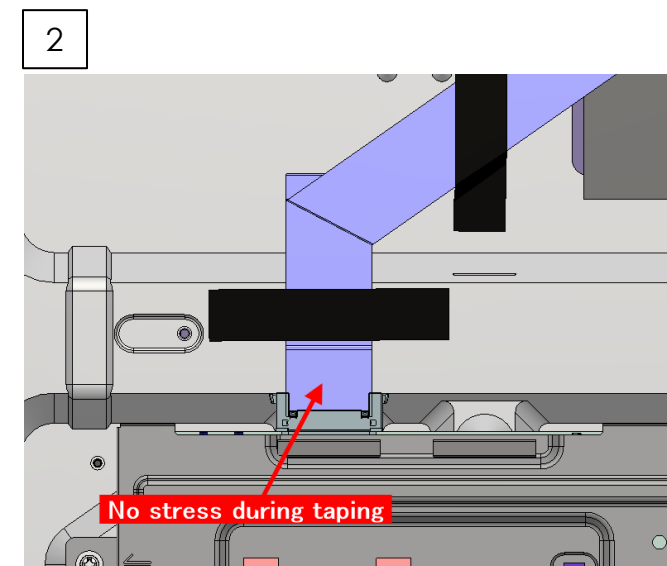
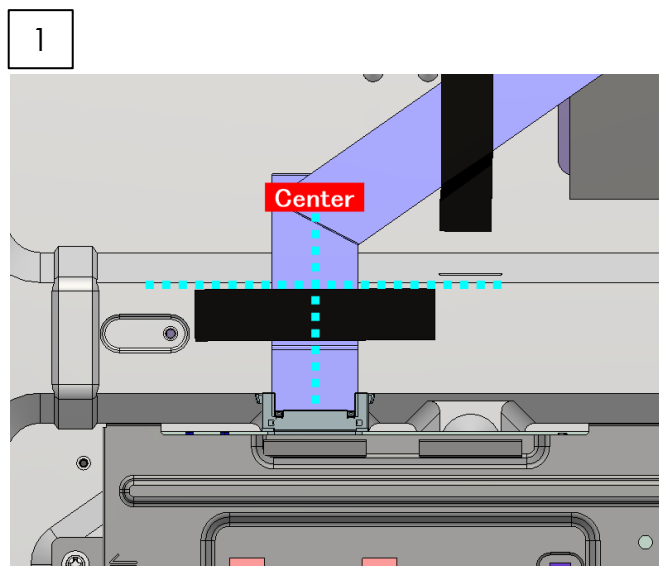
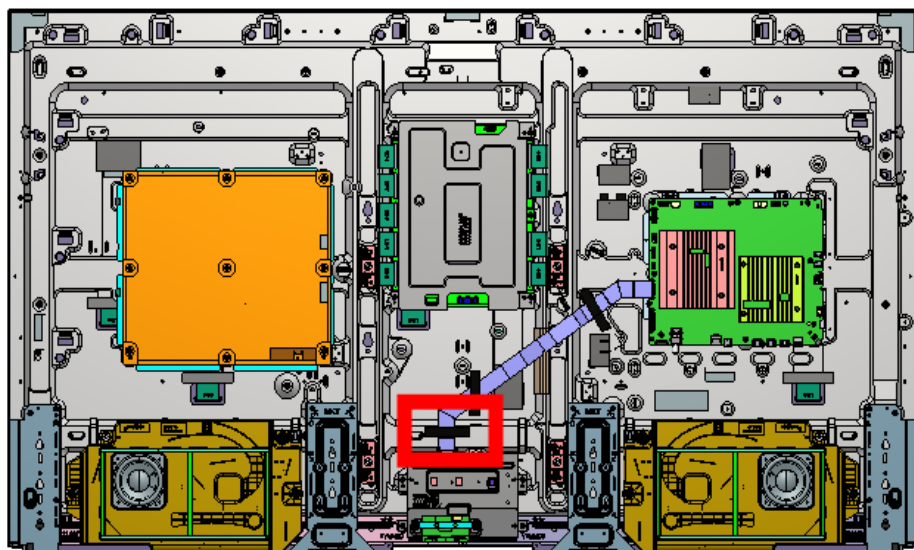
SECTION 1: XR-65X9*

1-3. WIRE DRESSING

TAPE



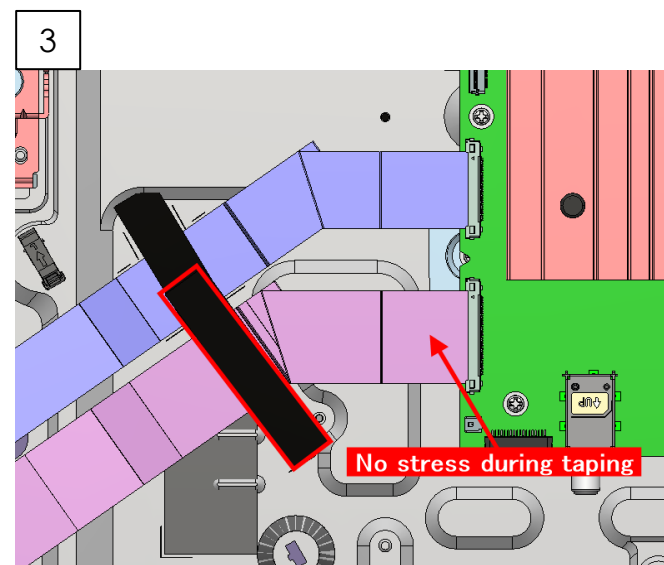
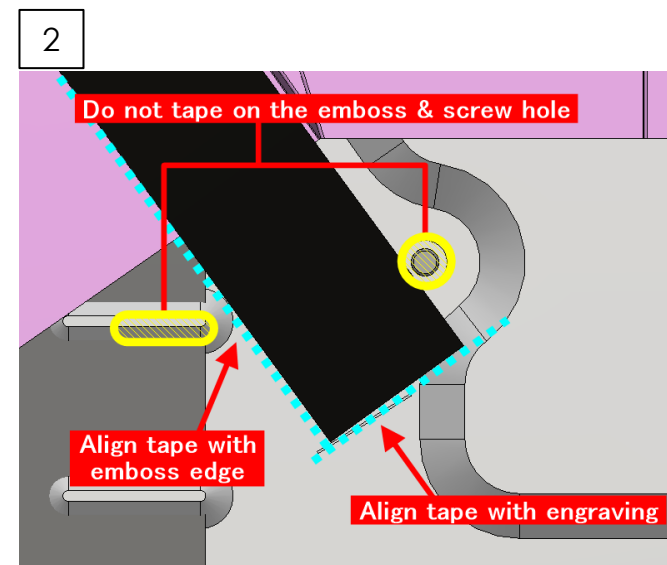
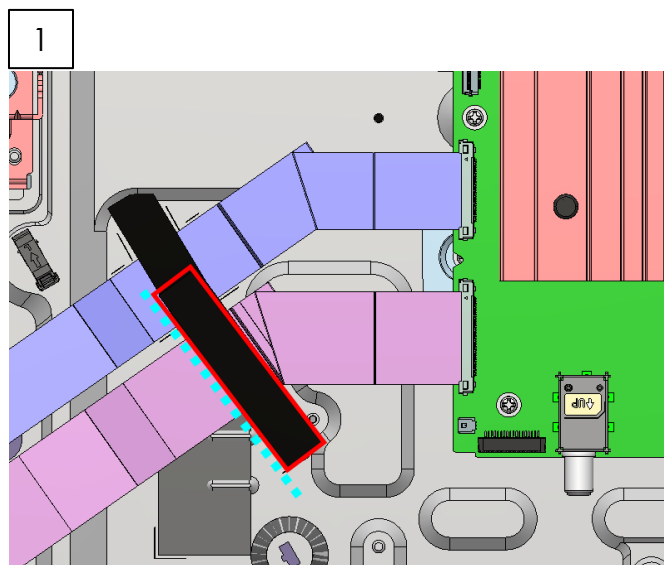
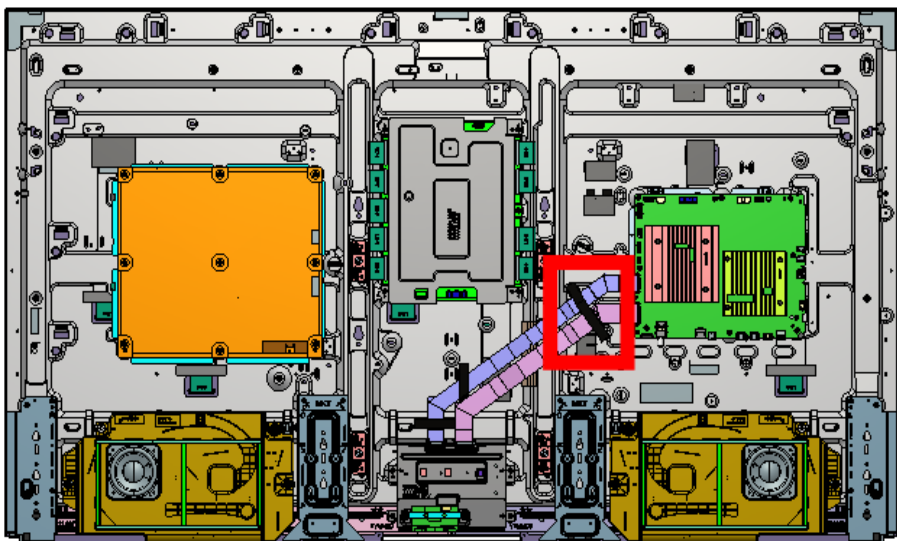
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SECTION 1: XR-65X9*

1-3. WIRE DRESSING

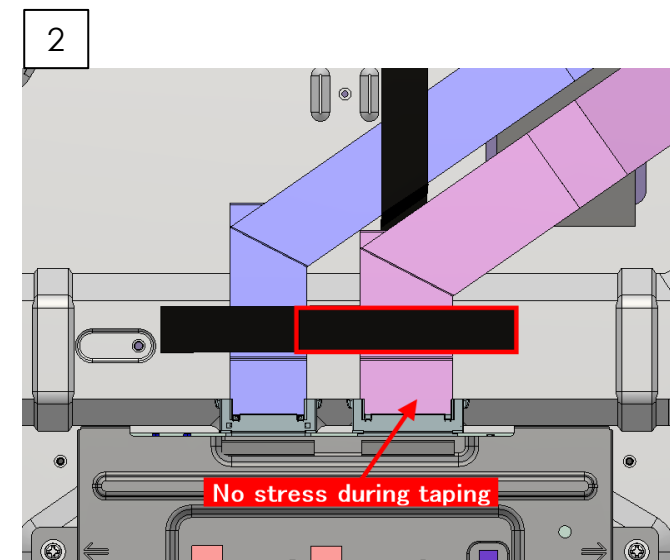
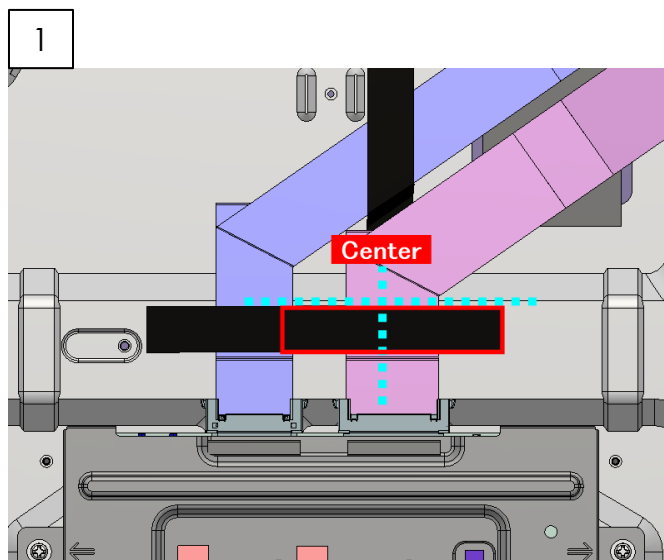
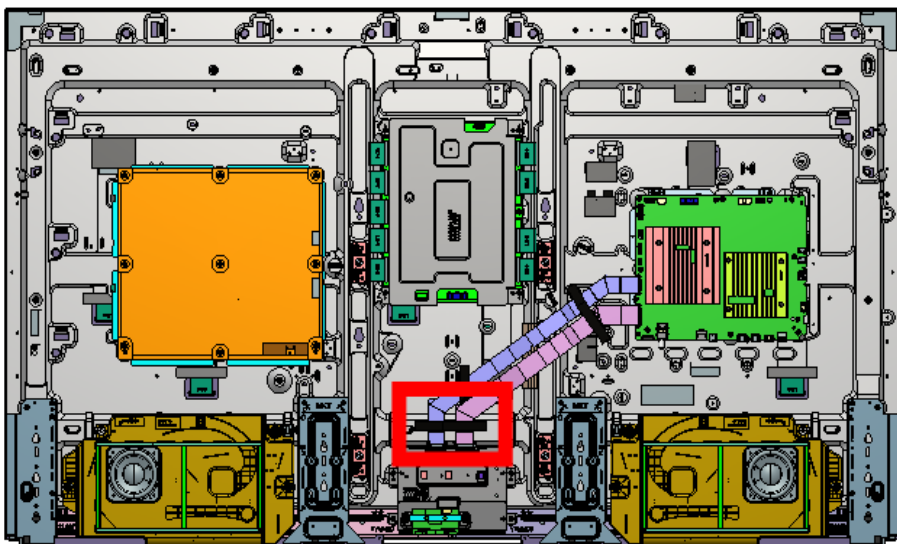
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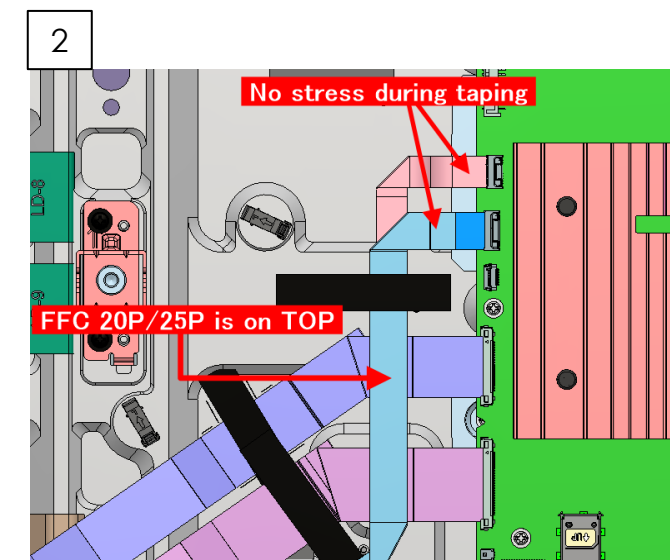
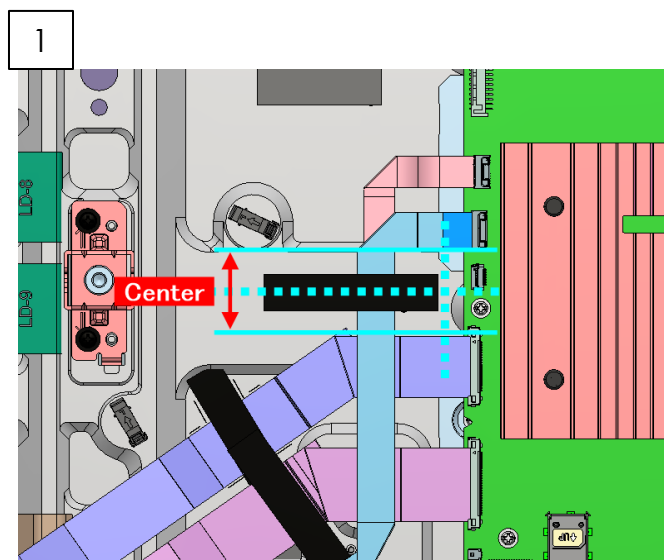
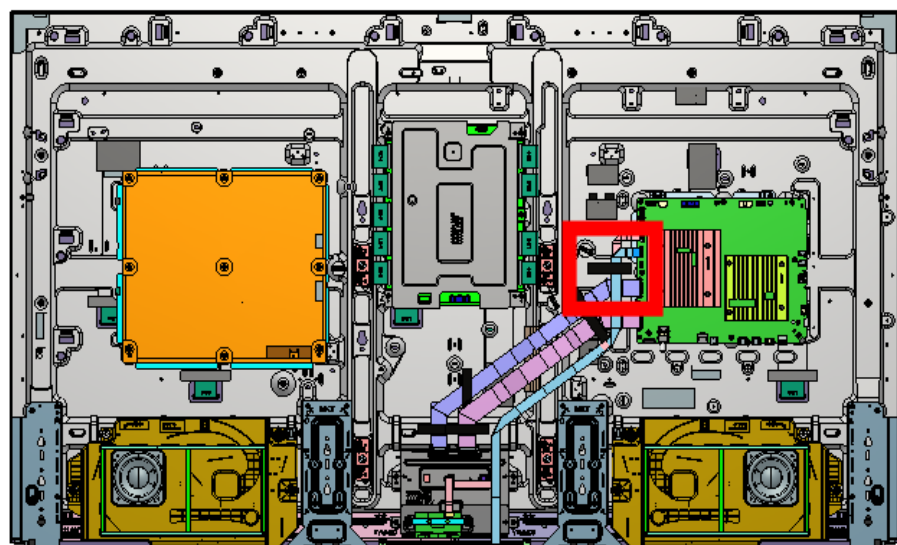
SECTION 1: XR-65X9*

1-3. WIRE DRESSING

TAPE



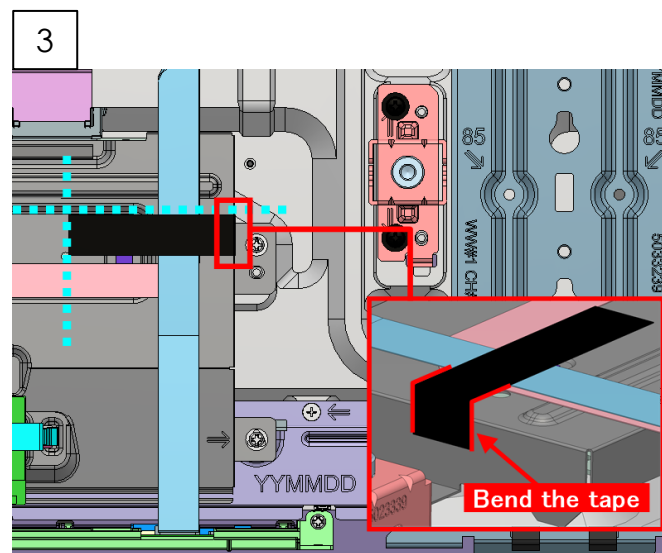
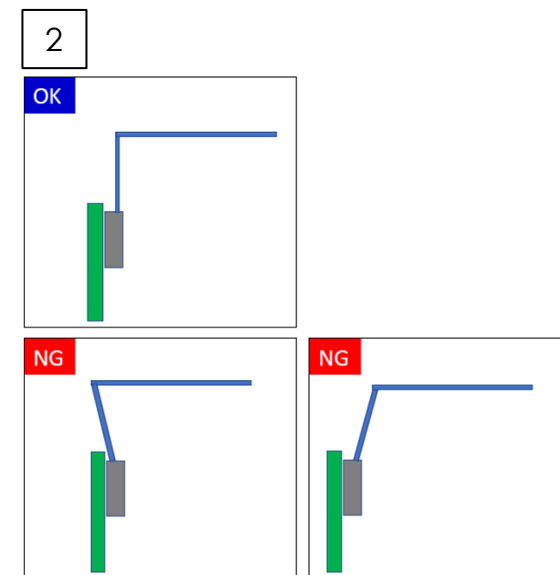
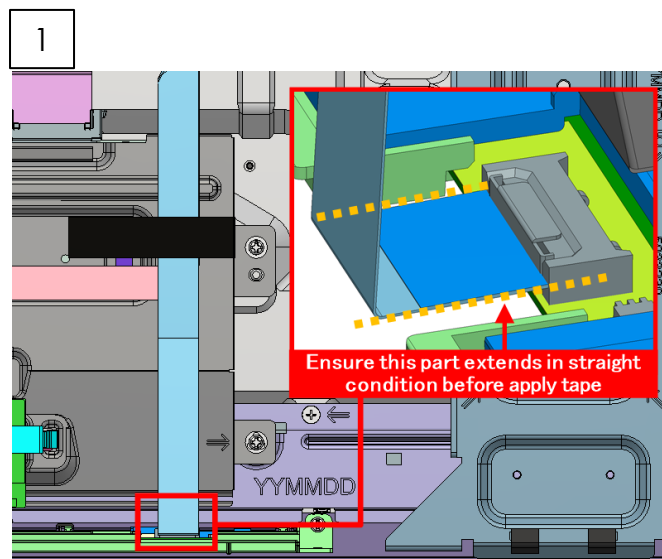
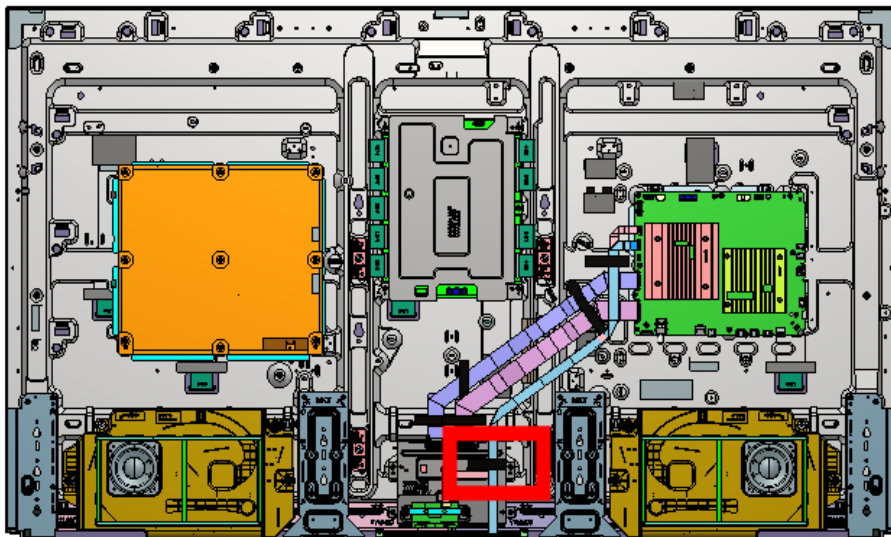
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SECTION 1: XR-65X9*

1-3. WIRE DRESSING

TAPE

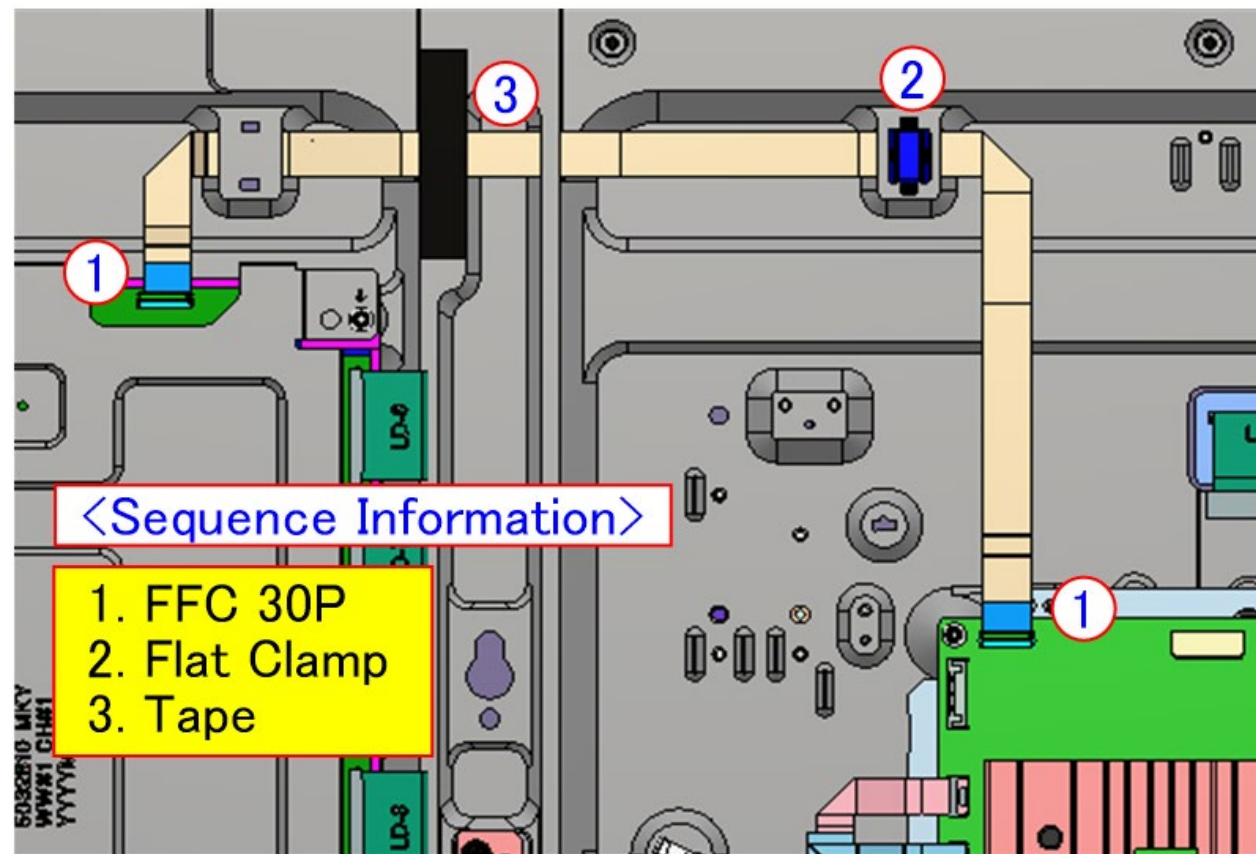


SECTION 1: XR-65X9*

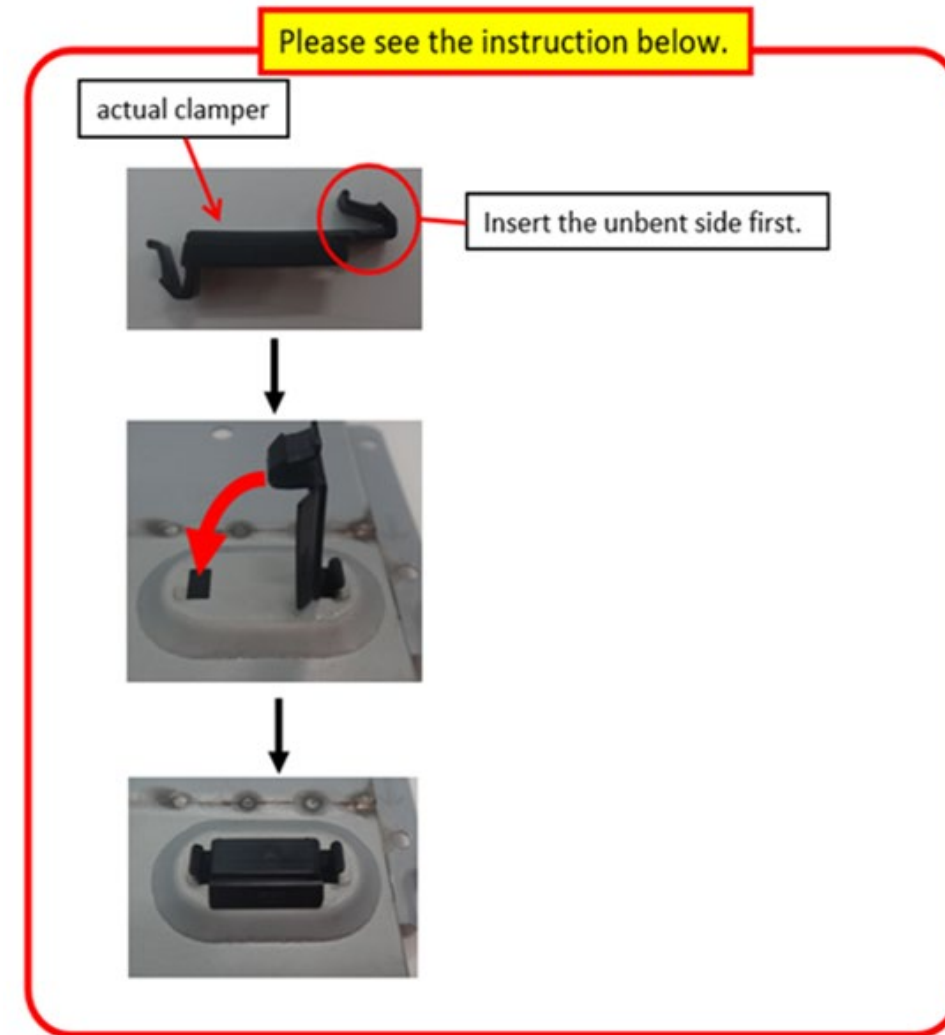
1-3. WIRE DRESSING

INFORMATION

Except CN8



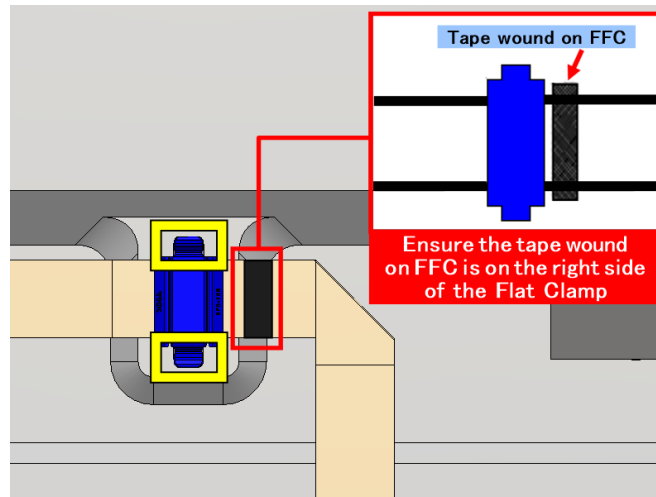
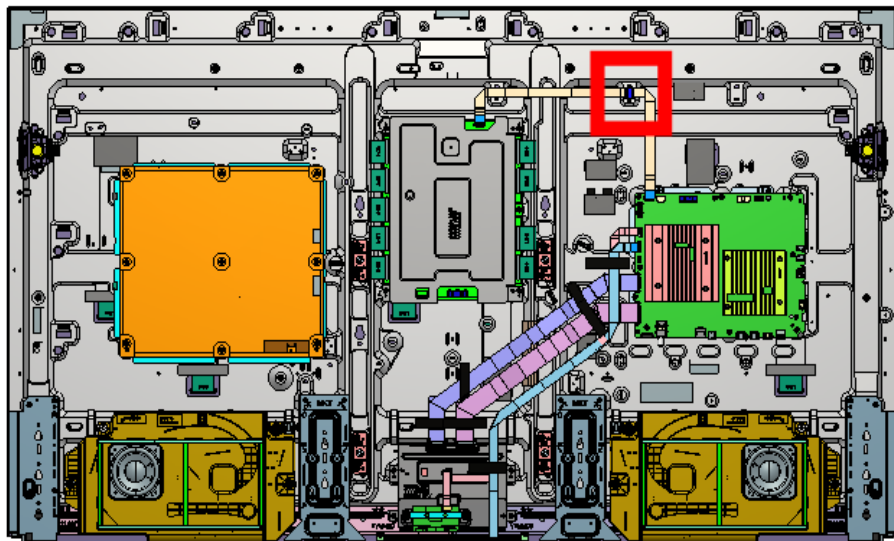
INFORMATION



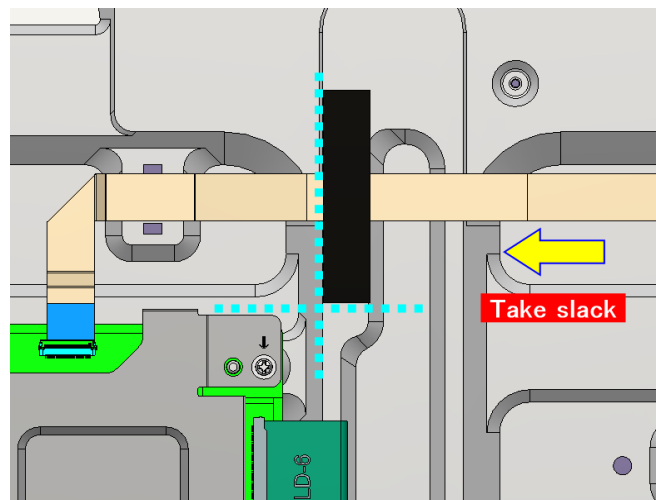
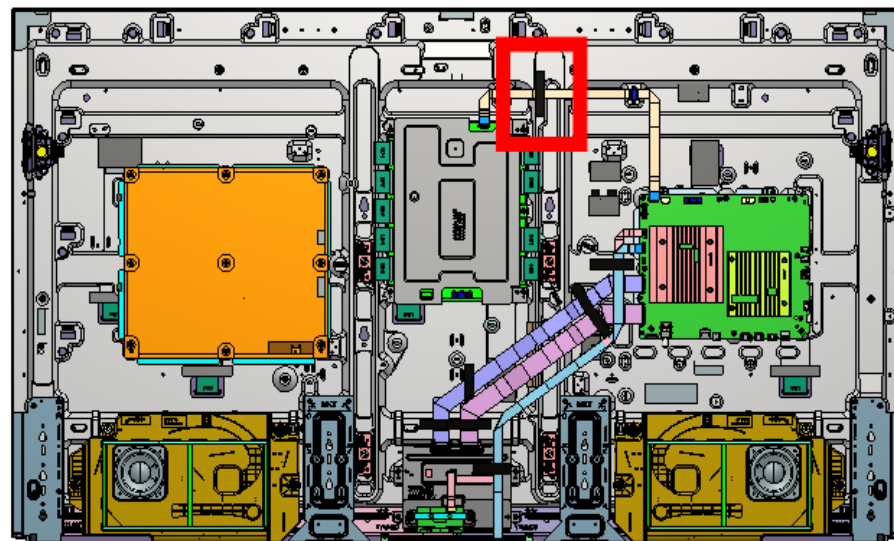
SECTION 1: XR-65X9*

1-3. WIRE DRESSING

WIRE DRESSING



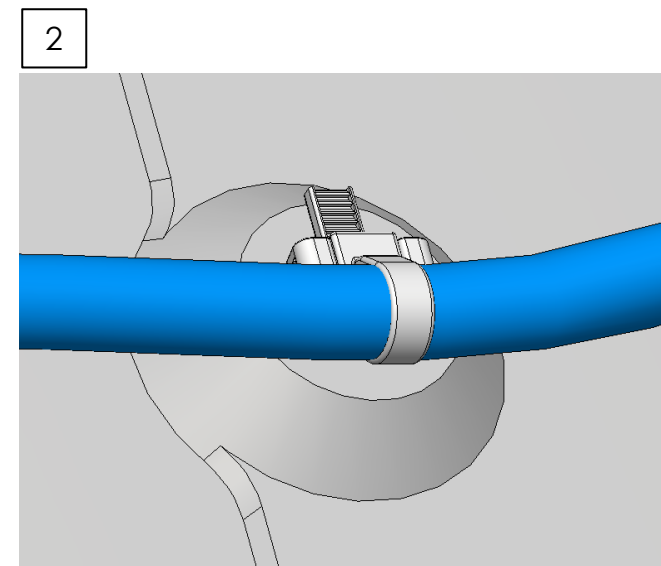
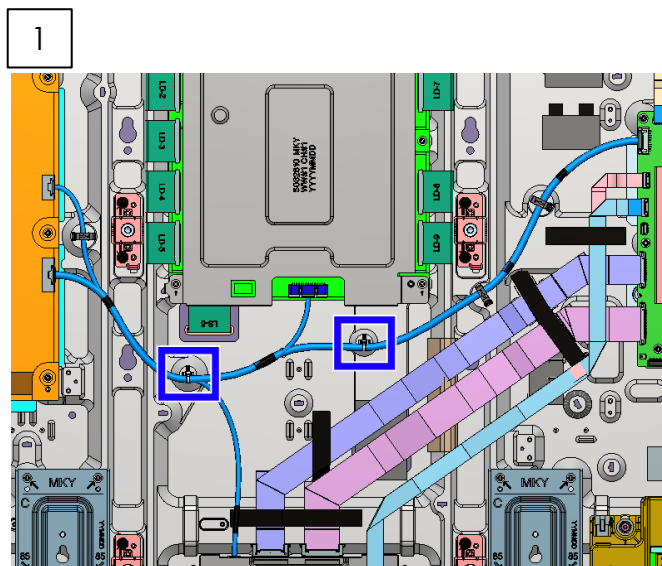
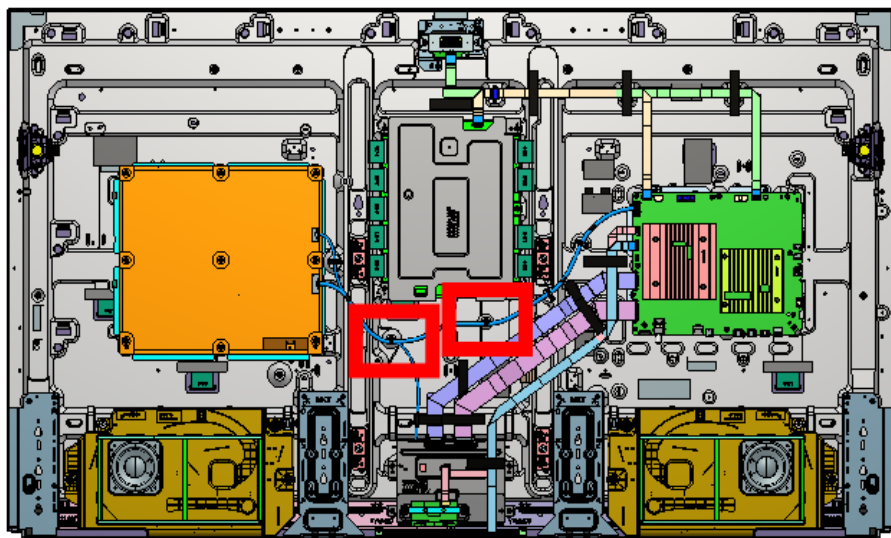
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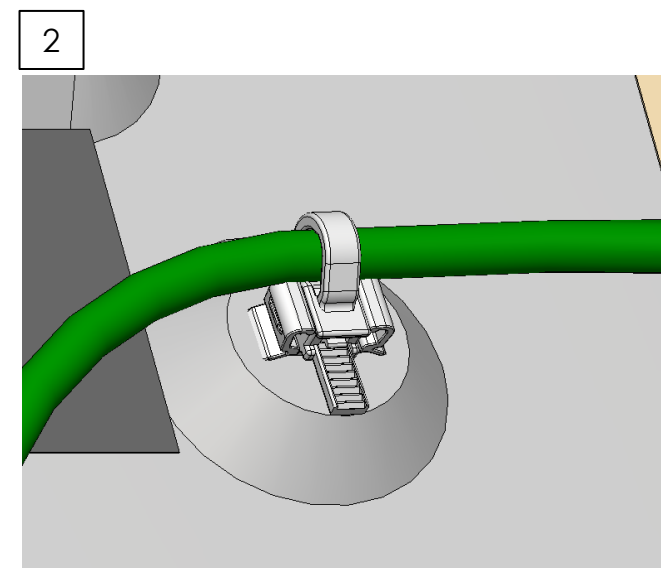
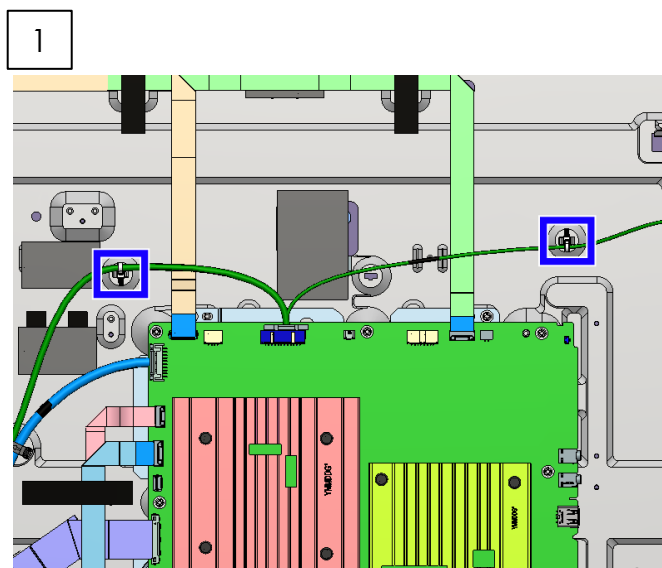
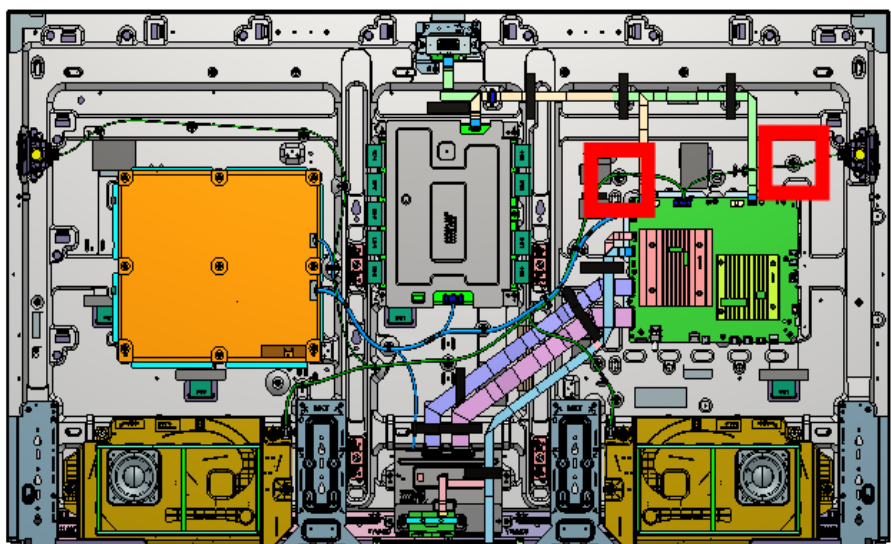
SECTION 1: XR-65X9*

1-3. WIRE DRESSING

WIRE DRESSING



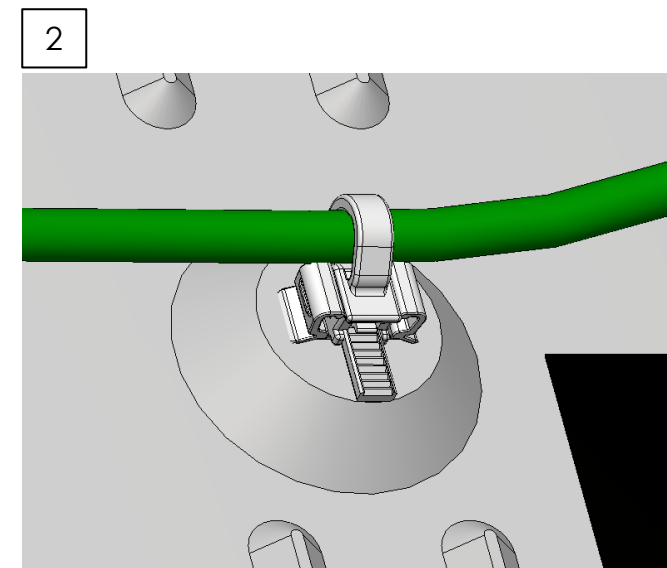
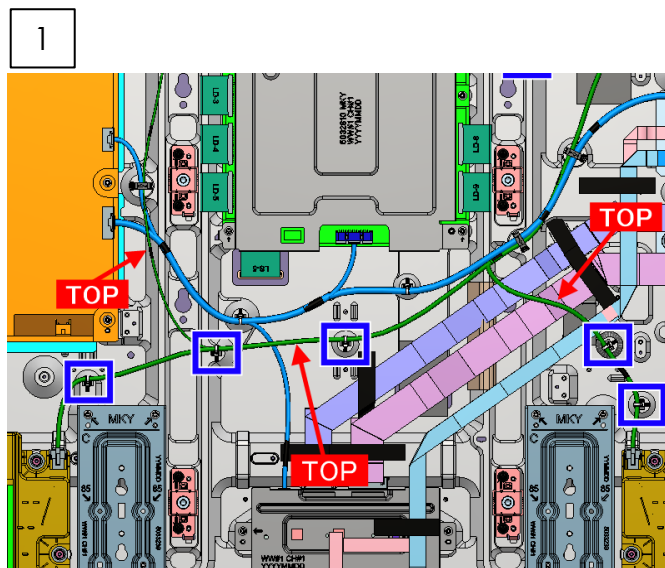
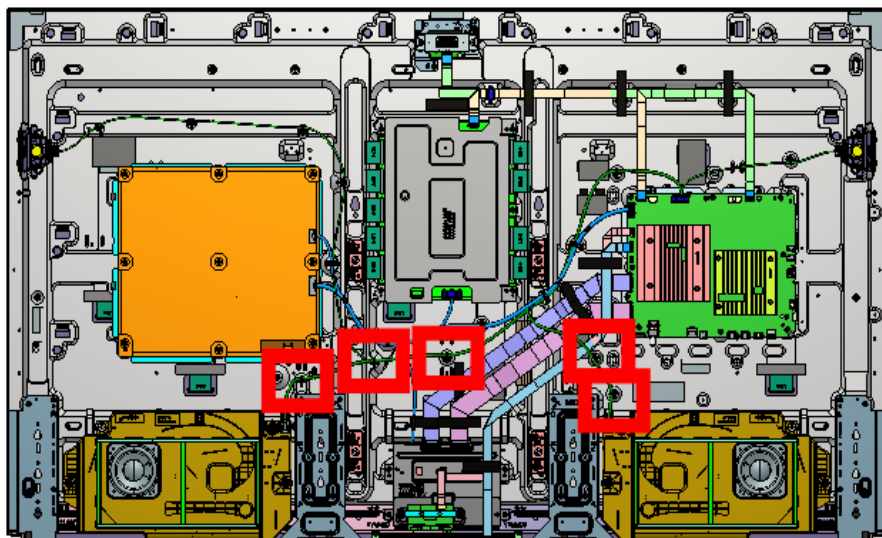
WIRE DRESSING



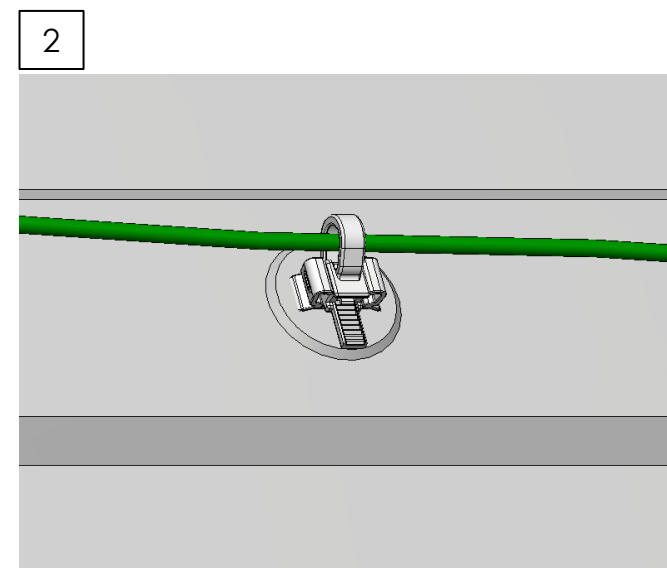
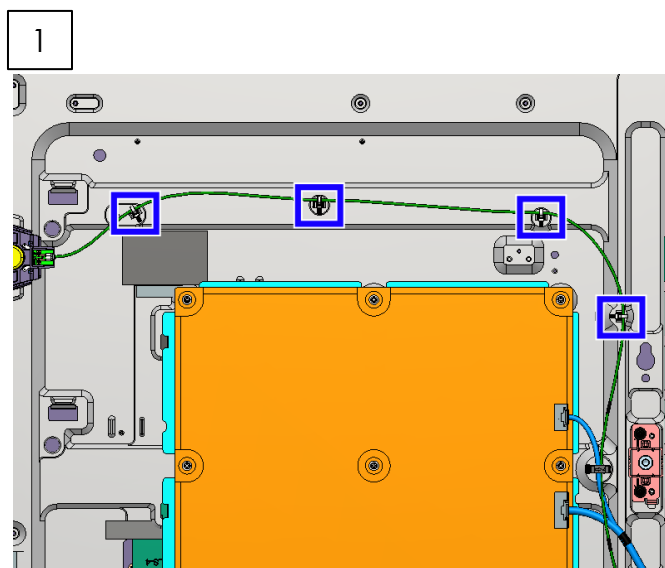
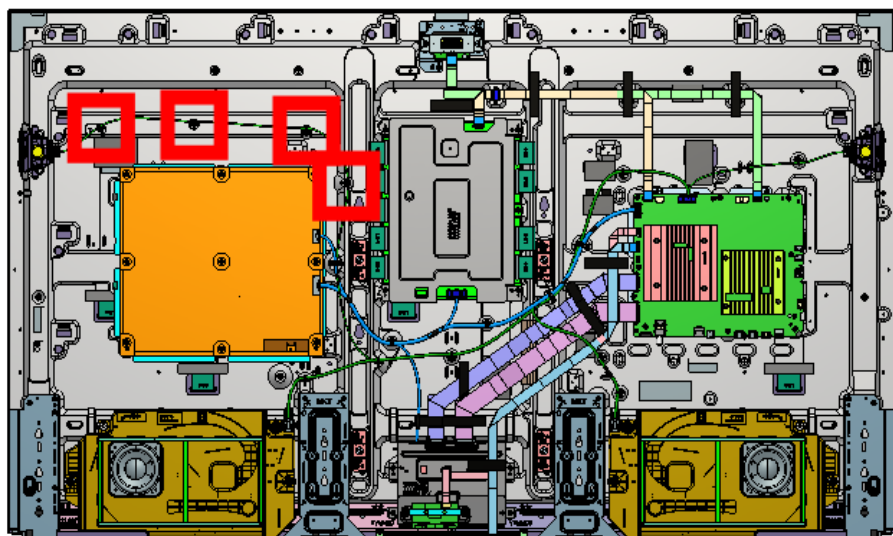
SECTION 1: XR-65X9*

1-3. WIRE DRESSING

WIRE DRESSING



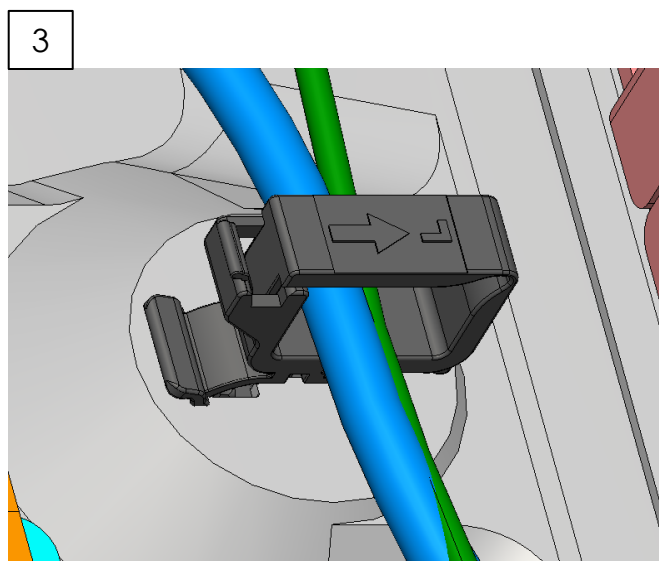
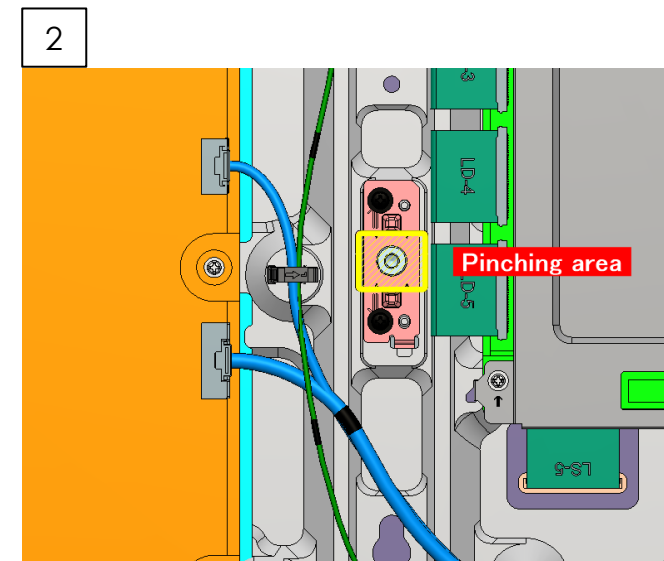
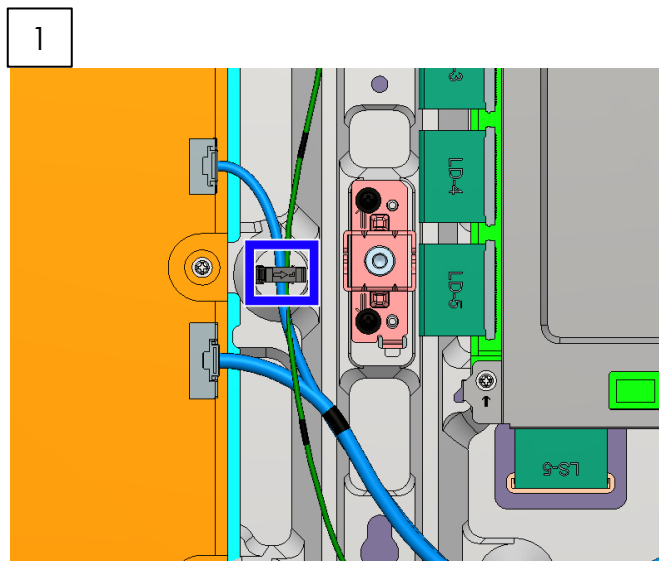
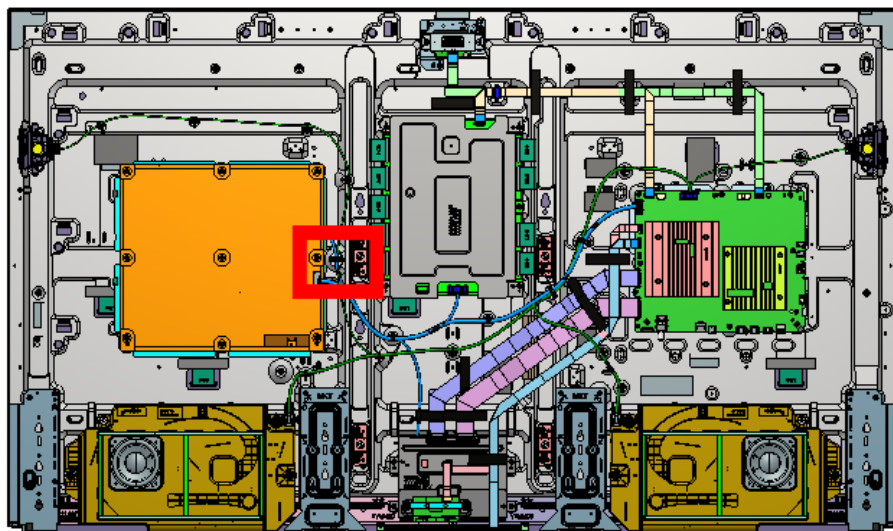
WIRE DRESSING



SECTION 1: XR-65X9*

1-3. WIRE DRESSING

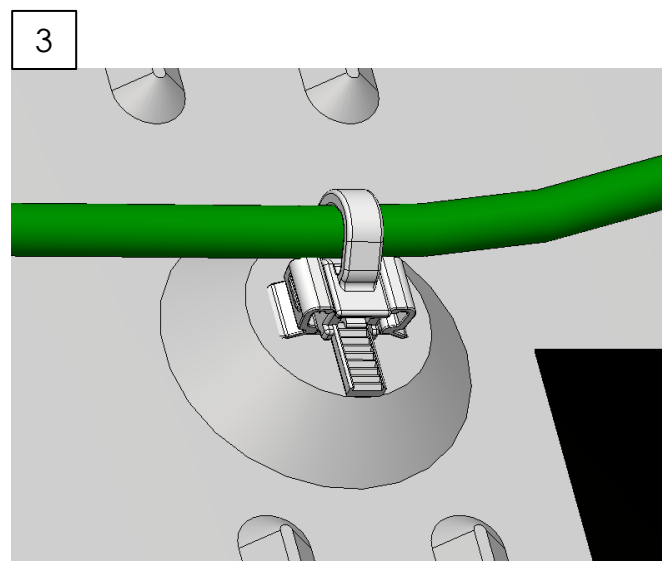
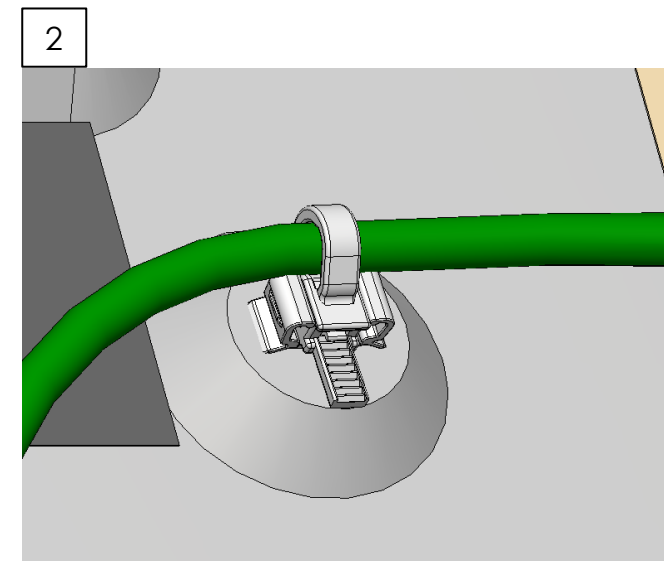
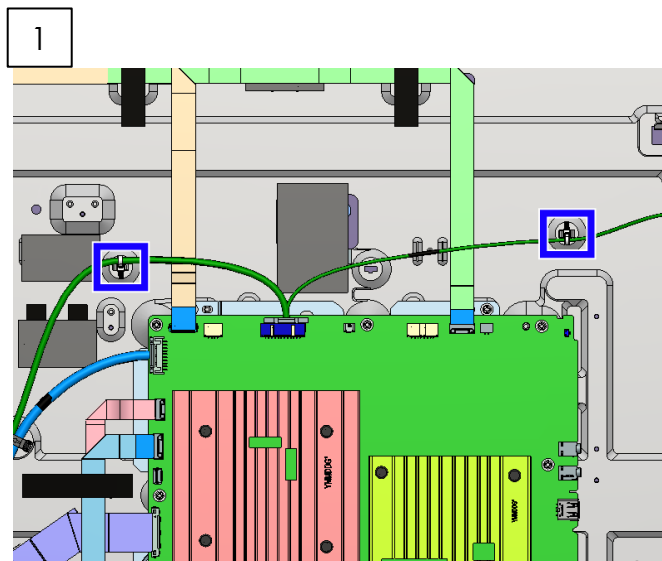
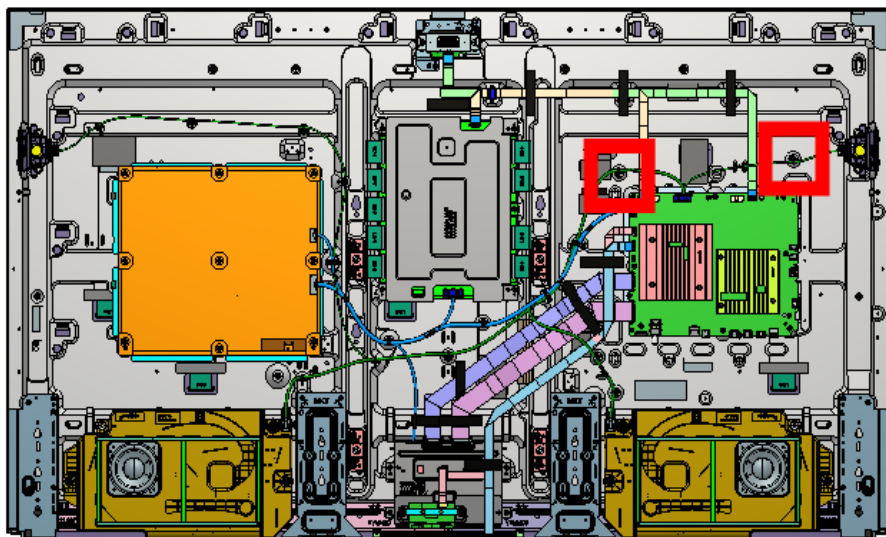
WIRE DRESSING



SECTION 1: XR-65X9*

1-3. WIRE DRESSING

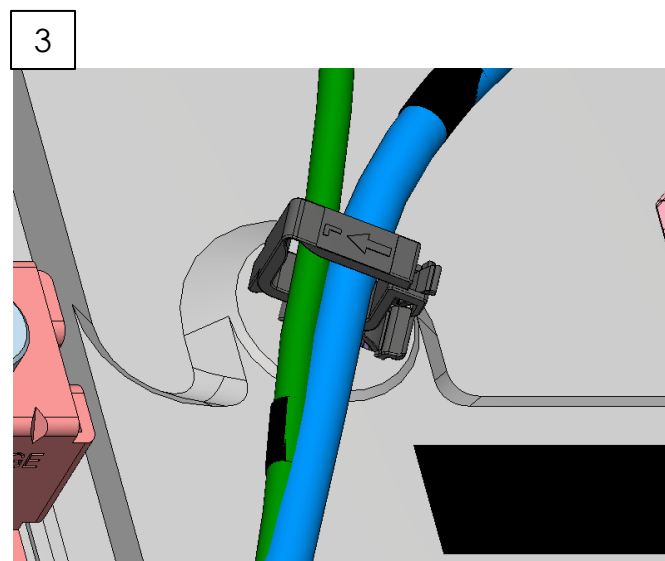
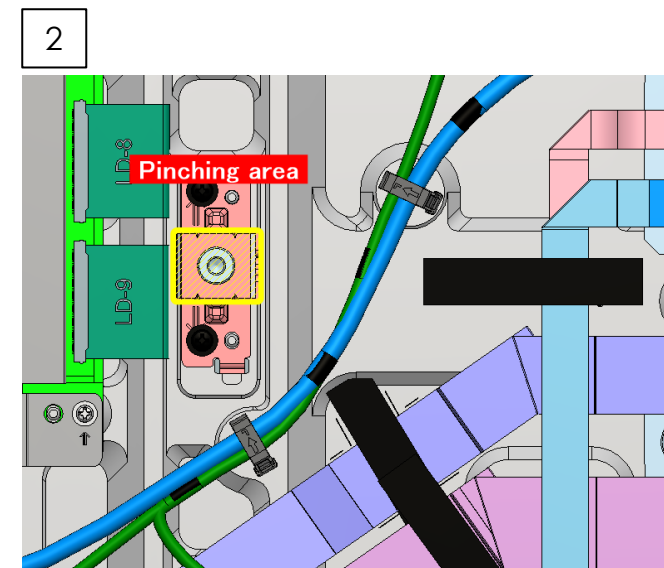
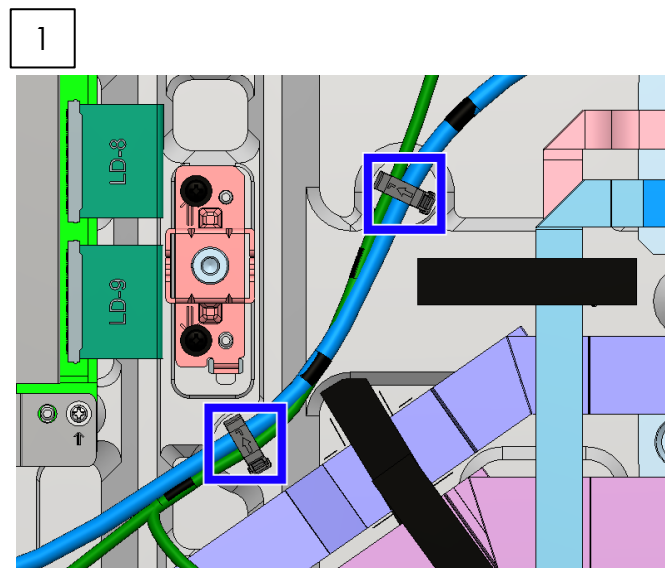
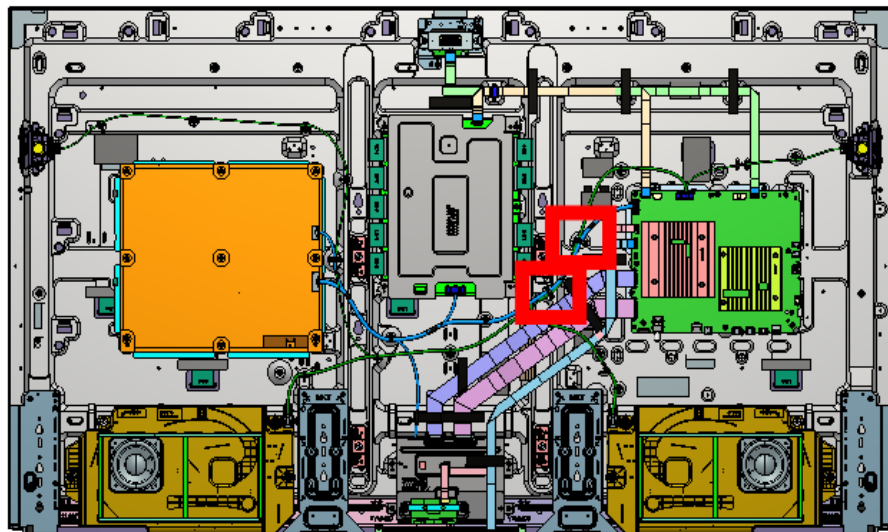
WIRE DRESSING



SECTION 1: XR-65X9*

1-3. WIRE DRESSING

WIRE DRESSING

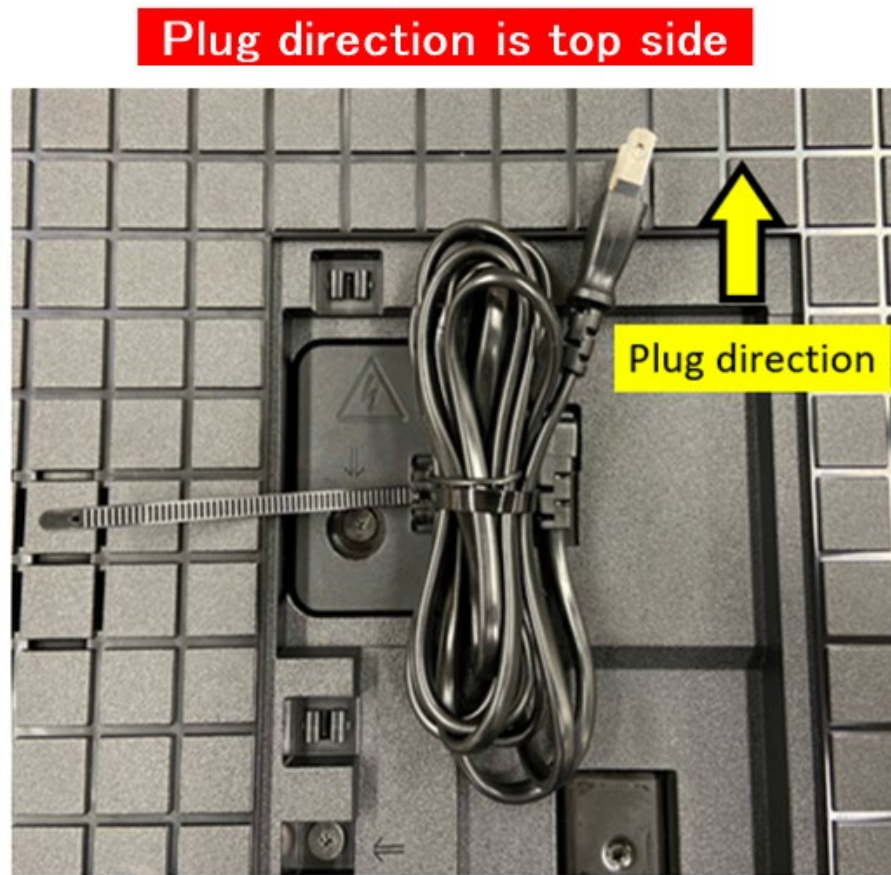
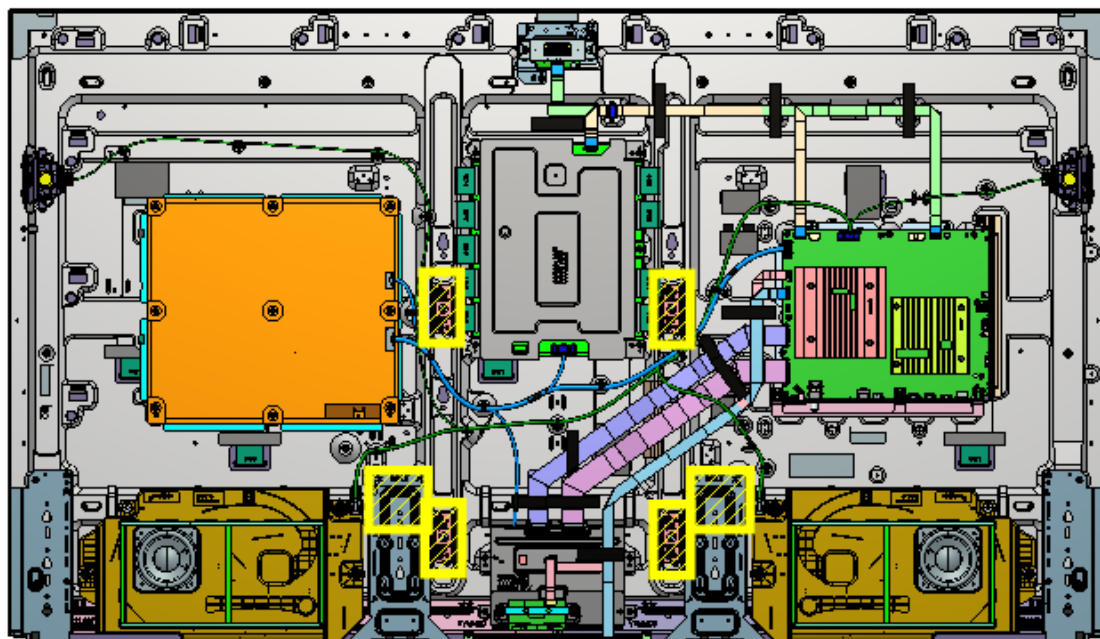


SECTION 1: XR-65X9*

1-3. WIRE DRESSING

INFORMATION



WIRE DRESSING



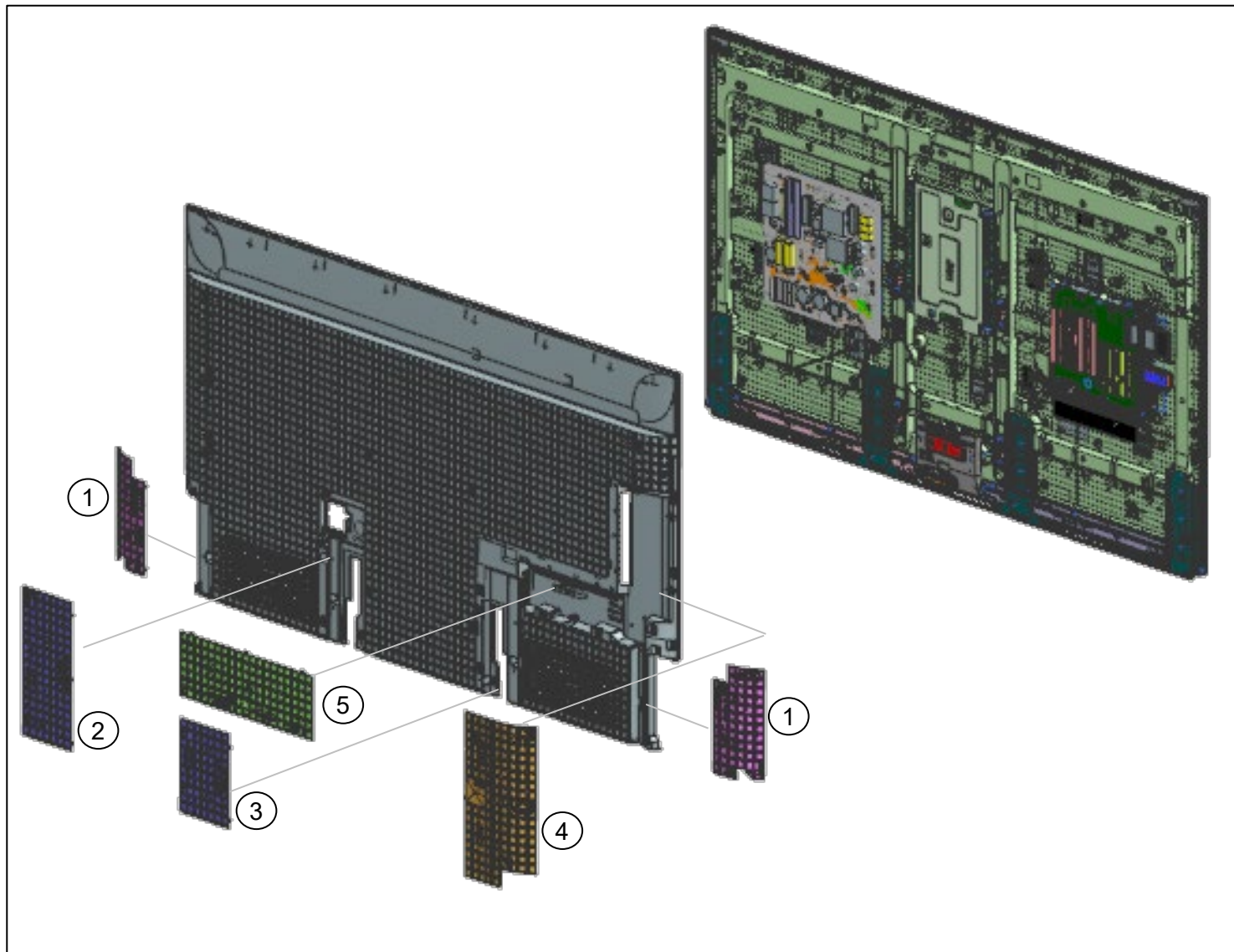
Caution : Ensure harness is away from inhibit area

SECTION 1: XR-65X9*

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



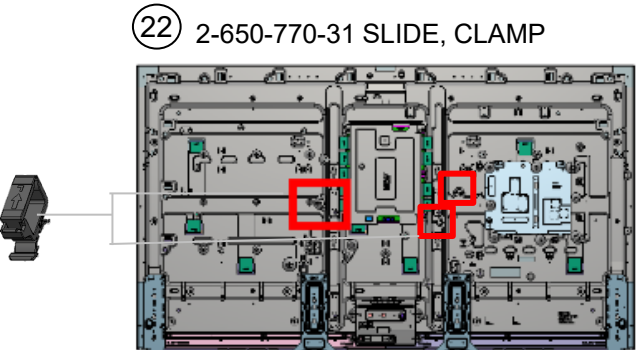
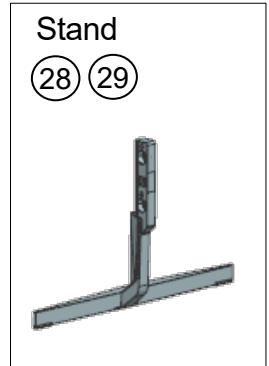
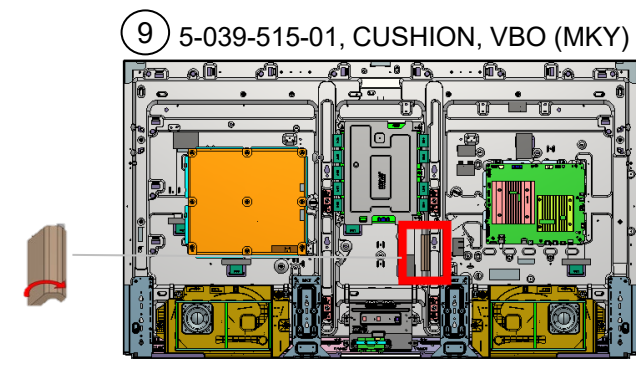
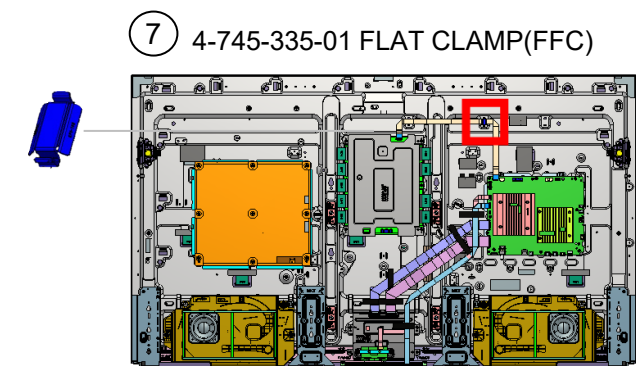
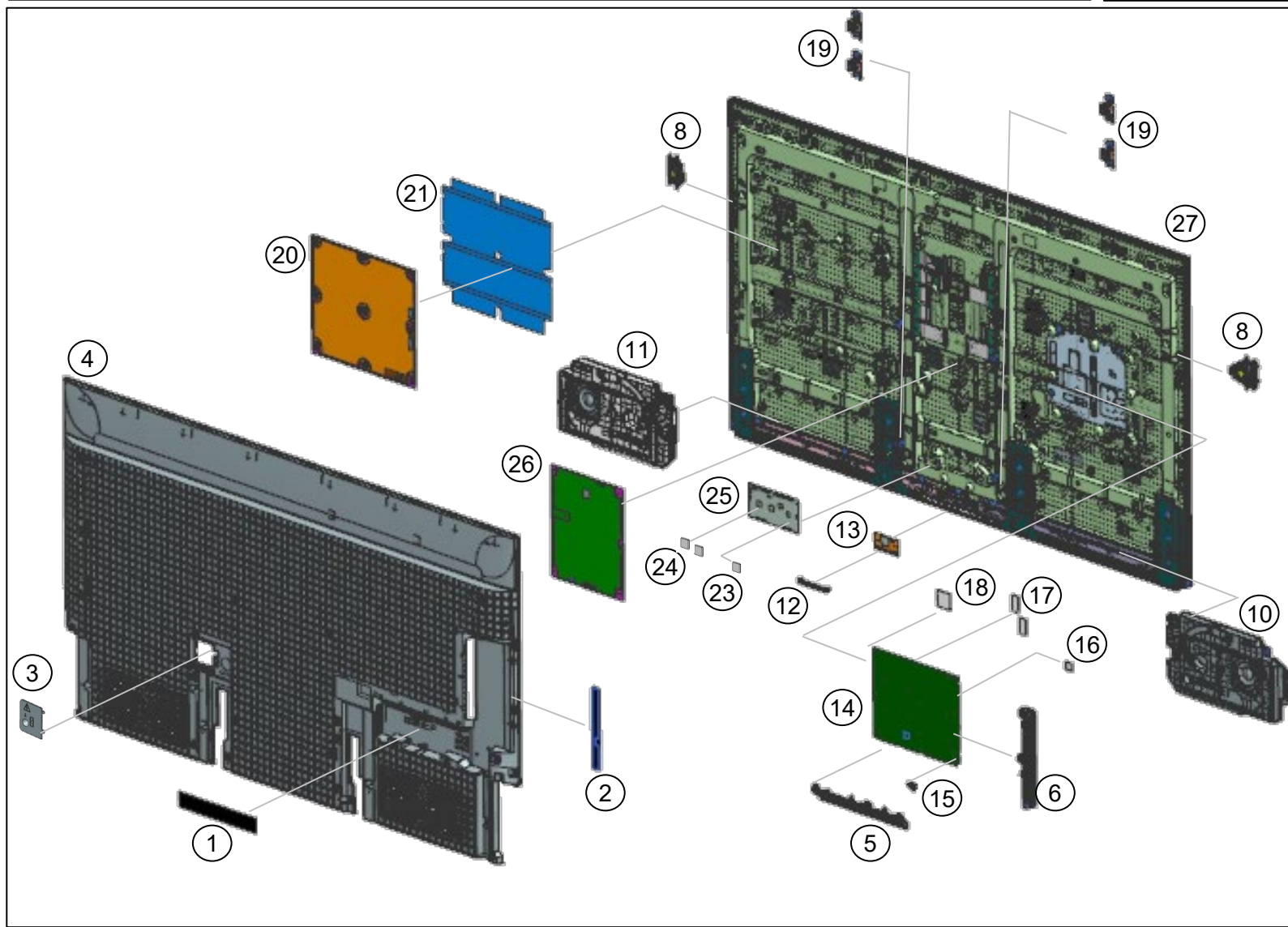
| REF. NO | PART NO. | DESCRIPTION | REMARKS |
|---------|--------------|---------------------------|---|
| 1 | 5-035-744-01 | STAND COVER LR (2L MKY) A | Including STAND COVER L (2L MKY) & STAND COVER R (2L MKY) |
| 2 | 5-035-746-01 | STAND COVER CR (2L MKY) A | - |
| 3 | 5-035-745-01 | STAND COVER CL (2L MKY) A | - |
| 4 | 5-035-742-01 | COVER TML V (2L MKY) A | Side Terminal Cover |
| 5 | 5-035-743-01 | COVER TML H (2L MKY) A | Under Terminal Cover |

SECTION 1: XR-65X9*

1-4. EXPLODED VIEW AND PART LIST

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





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



SECTION 1: XR-65X9*

1-4. EXPLODED VIEW AND PART LIST

SET PART LIST

| REF. NO | PART NO. | DESCRIPTION | XR-65X95K | XR-65X93L | XR-65X93CL | REMARKS |
|--|--------------|--------------------------------|-----------|-----------|------------|------------|
| | | | UCM | UC2 | UC2 | - |
| 1 | 5-036-141-01 | LABEL, UNDER TERMINAL (BM5S22) | • | n/a | n/a | - |
| 1 | 5-049-098-01 | LABEL, UNDER TERMINAL(BM5S,6S) | n/a | • | • | - |
| 2 | 5-036-145-01 | LABEL, SIDE TERMINAL (BM5S22) | • | n/a | n/a | - |
| 2 | 5-049-096-01 | LABEL, SIDE TERMINAL(BM5S,6S) | n/a | • | • | - |
|  3 | 4-745-608-01 | AC COVER (AT) | • | • | • | - |
|  4 | 5-033-691-01 | REAR COVER (2L MKY) A | • | • | • | - |
| 5 | 4-726-396-13 | BRACKET, UNDER (BM2A) | • | • | • | Compatible |
| 5 | 4-724-146-14 | BRACKET, UNDER (BM2A) | • | • | • | |
| 6 | 5-036-018-21 | BRACKET SIDE(SGT) | • | • | • | Compatible |
| 6 | 5-036-017-22 | BRACKET SIDE(SGT) | • | • | • | |
| 7 | 4-745-335-01 | FLAT CLAMP(FFC) | • | • | • | - |
| 8 | 1-013-275-11 | LOUDSPEAKER, FY22 TW16-19MM | • | • | • | - |
| 9 | 5-039-515-01 | CUSHION, VBO (MKY) | • | • | • | - |
| 10 | 1-013-276-12 | SP BOX ASSY, FY22 D35 SLIT(L) | • | • | • | - |
| 11 | 1-013-276-22 | SP BOX ASSY, FY22 D35 SLIT(R) | • | • | • | - |
| 12 | 5-009-258-22 | BRACKET, WIFI(BNN) | • | • | • | - |
|  13 | 1-005-419-32 | WLAN/BT MODULE(11AC)FXC | • | • | • | Compatible |
|  13 | 1-005-419-14 | WLAN/BT MODULE(11AC) | • | • | • | |

Notes :

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






9 CUSHION, VBO (MKY)

21 SHT, INSULATION (2L MKY)

SECTION 1: XR-65X9*

1-4. EXPLODED VIEW AND PART LIST

SET PART LIST

| REF. NO | PART NO. | DESCRIPTION | XR-65X95K | XR-65X93L | XR-65X93CL |
|--|---------------|---------------------------------|-----------|-----------|------------|
| | | | UCM | UC2 | UC2 |
|  14 | A-5044-976-A | COMPL SVC BM5S22B_FM_UCMX | • | n/a | n/a |
|  14 | A-5056-077-A | COMPL SVC BM5S22B_FM2_UCMX | n/a | • | • |
| 15 | 5-023-281-02 | KEY, TOP(SGT) | • | • | • |
| 16 | 4-699-975-02 | SHEET, THERMAL(5567H) | • | • | • |
| 17 | 5-023-557-01 | SHEET THERMAL(BM5S21 DDR) | • | • | • |
| 18 | 5-011-960-01 | SHEET, THERMAL(LMN TCON) | • | • | • |
| 19 | *5-023-339-01 | BRACKET, VESA(GMN) | • | • | • |
|  20 | 1-013-590-12 | G27 - STATIC CONVERTER(TV) | • | • | • |
|  21 | 5-035-899-01 | SHT, INSULATION (2L MKY) | • | • | • |
| 22 | 2-650-770-31 | SLIDE, CLAMP | • | • | • |
| 23 | 5-026-767-01 | SHEET, THERMAL T-CON(3L GMN) | • | • | • |
| 24 | 5-028-173-01 | SHEET, THERMAL CONDUCTIVE (GMN) | • | • | • |
| 25 | 1-013-500-11 | MOUNTED PWB E-T-CON (65) | • | • | • |
| 26 | A-5041-953-A | 22LD432A1 COMPL | • | • | • |
|  27 | A-5042-990-A | P-MOD(YDCS065MES02) | • | n/a | n/a |
| 28 | 5-034-692-01 | STAND L (2L MKY) A | • | • | • |
| 29 | 5-034-693-01 | STAND R (2L MKY) A | • | • | • |

Notes :

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

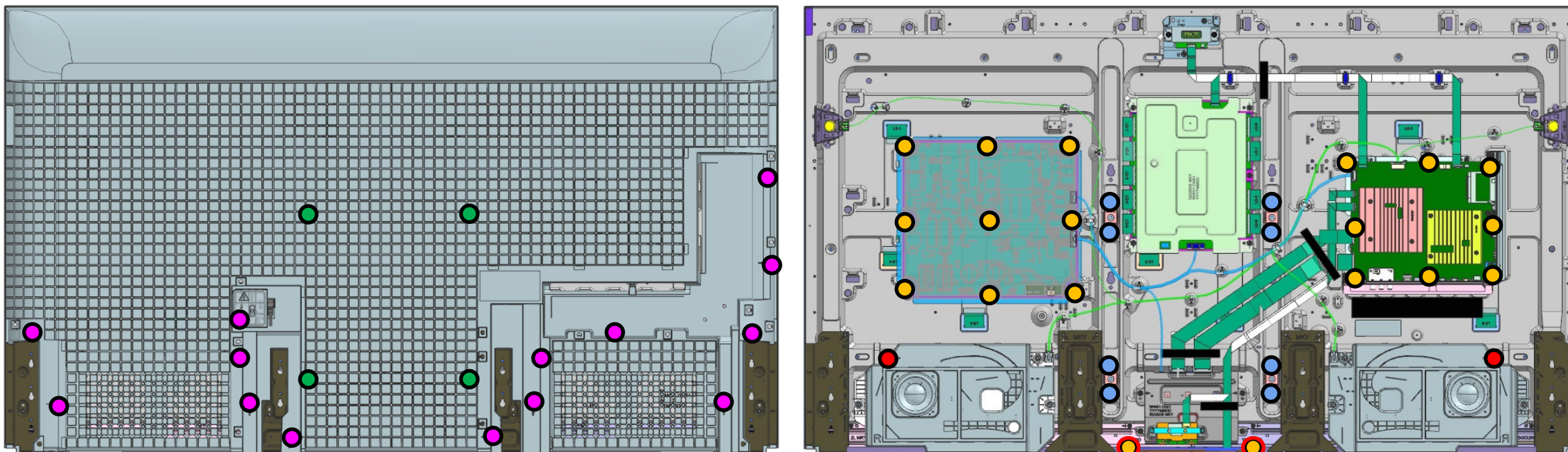
9 CUSHION, VBO (MKY)








21 SHT, INSULATION (2L MKY)

SECTION 1: XR-65X9*

1-4. EXPLODED VIEW AND PART LIST

SCREW

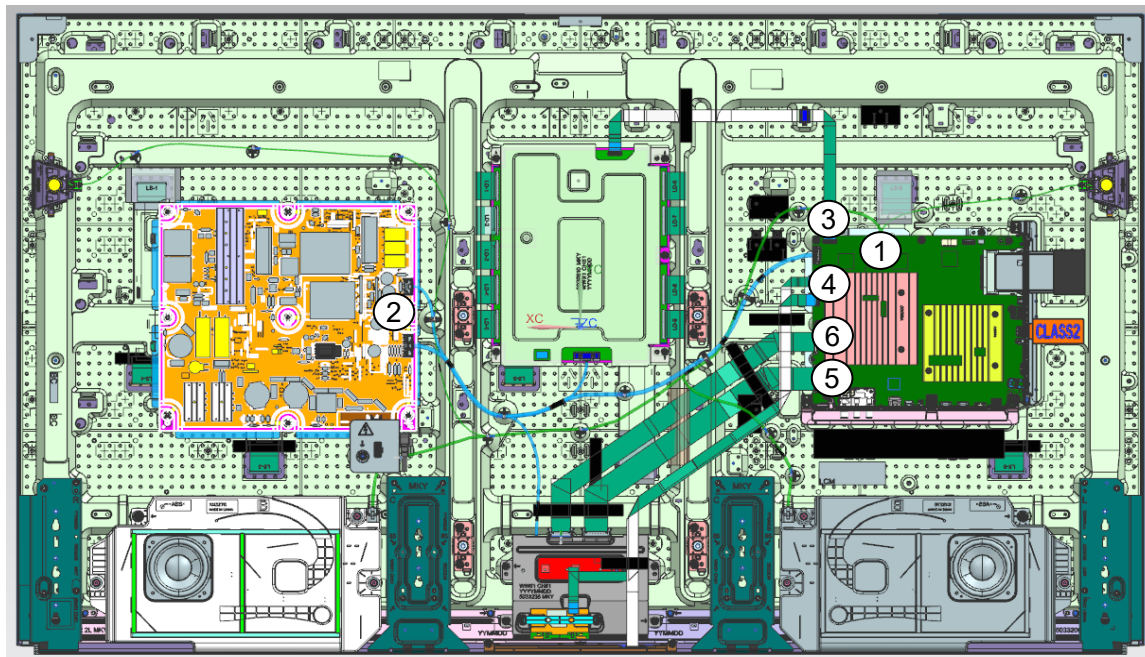


| REMARKS | P/N | DESCRIPTION | QTY | TORQUE (N.m) | REMARKS |
|---|--------------|-------------------------|-----|--------------|------------|
|  | 4-268-126-02 | SCREW, ORNAMENTAL M6X12 | 4 | 1.2 ± 0.1 | - |
|  | 4-579-926-01 | SCREW M3X3.0 STEP | 14 | 0.65 ± 0.05 | - |
|  | 4-256-393-12 | SCREW, +PSW M3X6 W12 | 2 | 0.4 ± 0.05 | - |
|  | 2-580-600-01 | SCREW, +PSW M4X8 | 8 | 0.65 ± 0.05 | - |
|  | 4-472-518-11 | SCREW, +PSW M3x6 | 19 | 0.4 ± 0.05 | - |
|  | 4-472-518-11 | SCREW, +PSW M3x6 | 17 | 0.4 ± 0.05 | 93L / 93CL |
|  | 7-682-948-09 | SCREW +PSW 3X8 | 2 | 0.4 ± 0.05 | 93L / 93CL |

SECTION 1: XR-65X9*


1-4. EXPLODED VIEW AND PART LIST

CONNECTOR



| REF. NO | PART NO. | DESCRIPTION | REMARKS |
|---------|--------------|-----------------------------|--|
| 1 | 1-014-907-11 | CONNECTOR ASSY 12P (SP) | CN6603(B)-SP(1) |
| 2 | 1-014-906-11 | CONNECTOR ASSY 28P | CN1700(B)-CN6401(G)-CN6601(G)-CN1000(LD)-J105(TCON)(1) |
| 3 | 1-014-857-11 | FLEXIBLE FLAT CABLE 30P | CN6200(B)-CN1000(LD)(1) |
| 4 | 1-014-847-11 | FLEXIBLE FLAT CABLE 20P/25P | CN103(H)-CN1200(B)-CN3803(B)-BT(1) |
| 5 | 1-014-851-11 | FLEXIBLE FLAT CABLE 51P | CN6800(B)-CN3(TCON)(1) |
| 6 | 1-014-850-11 | FLEXIBLE FLAT CABLE 41P | CN6801(B)-CN2(TCON)(1) |

SECTION 1: XR-65X9***1-4. EXPLODED VIEW AND PART LIST****OTHER PARTS**

| PART NO. | DESCRIPTION | XR-65X95K | XR-65X93L | XR-65X93CL | REMARKS |
|--|--------------------------------|-----------|-----------|------------|-------------------------------------|
| | | UCM | UC2 | UC2 | |
| 4-535-064-62 | 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 | • | • | • | - |
|  1-849-274-11 | POWER-SUPPLY CORD (WITH CONN.) | • | • | • | - |
| 1-013-691-23 | REMOTE COMMANDER (RMF-TX800U) | • | n/a | n/a | - |
| 1-016-940-21 | REMOTE COMMANDER (RMF-TX810U) | n/a | • | n/a | - |
| 1-016-949-21 | REMOTE COMMANDER (RMF-TX910U) | n/a | n/a | • | - |
| *5-038-398-11 | REFERENCE GUIDE | • | n/a | n/a | - |
| *5-049-617-11 | REFERENCE GUIDE | n/a | • | • | - |
| *5-038-399-11 | SETUP GUIDE | • | n/a | n/a | - |
| *5-049-618-11 | SETUP GUIDE | n/a | • | • | - |
| 7-600-031-97 | TAPE (3M 1350FB-1)15MMX66M BLK | • | • | • | - |

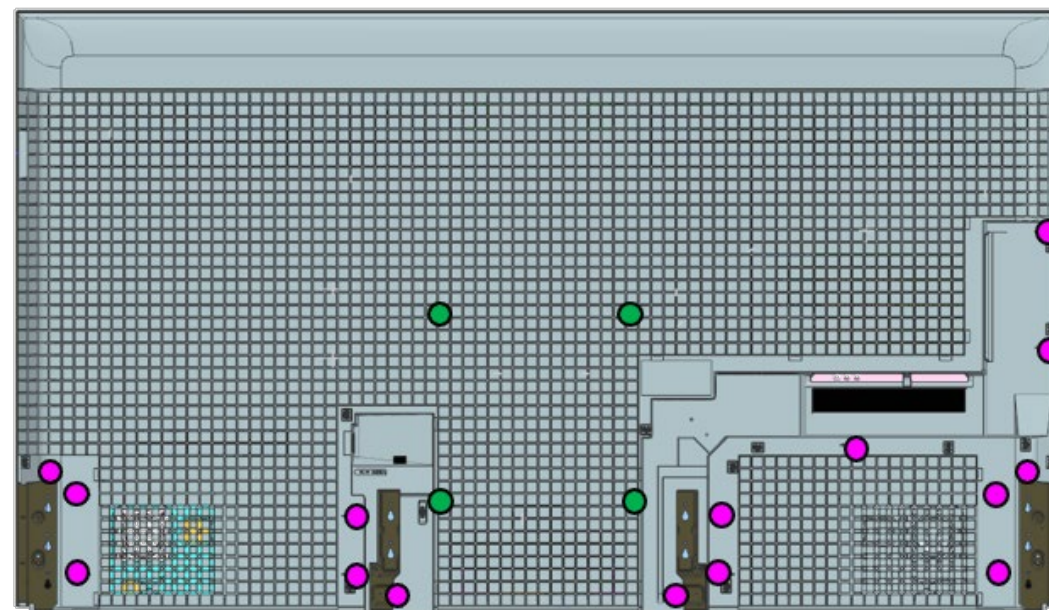
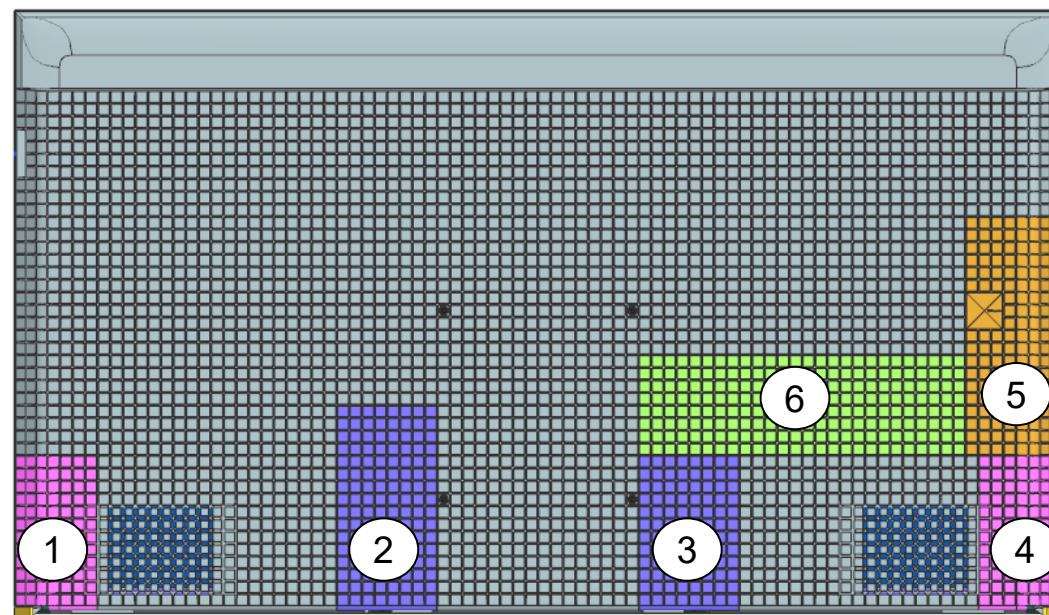
SECTION 2: XR-75X9***2-1. DISASSEMBLY AND REMOVAL CAUTION****REAR COVER**

1. Remove Cover (6 Covers).

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

2. (i) Remove 19 screws

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

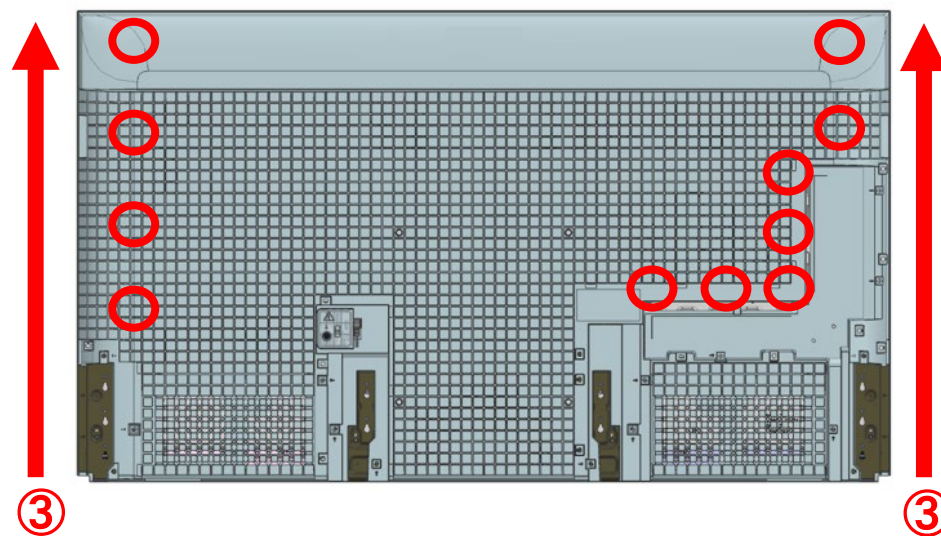


SECTION 2: XR-75X9*

2-1. DISASSEMBLY AND REMOVAL CAUTION

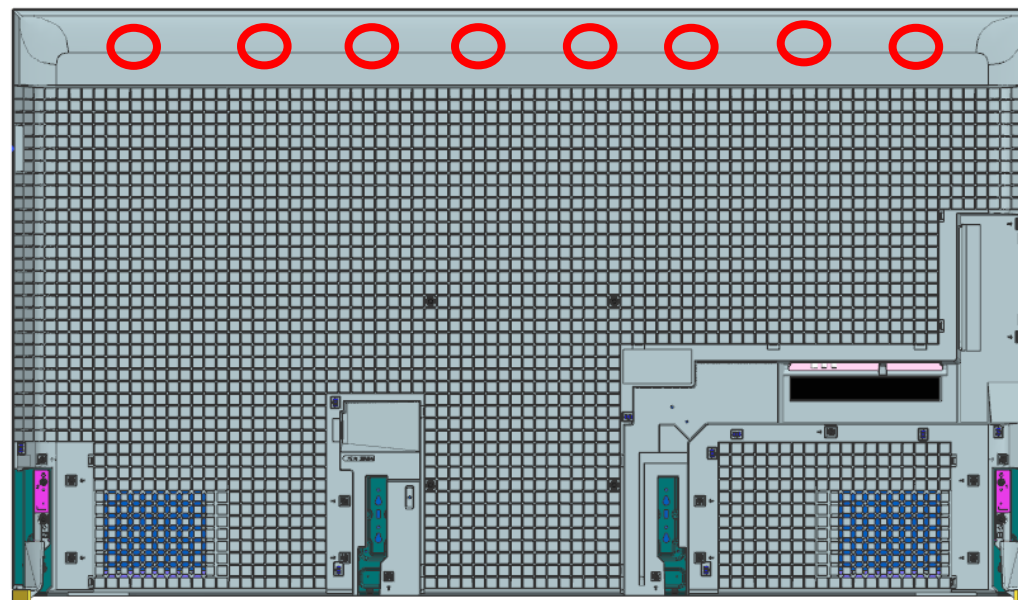
REAR COVER

3. Release Side and Bracket Hook.



Lift up Rear Cover from Bottom side

4. Release Top Hook (8 pcs).

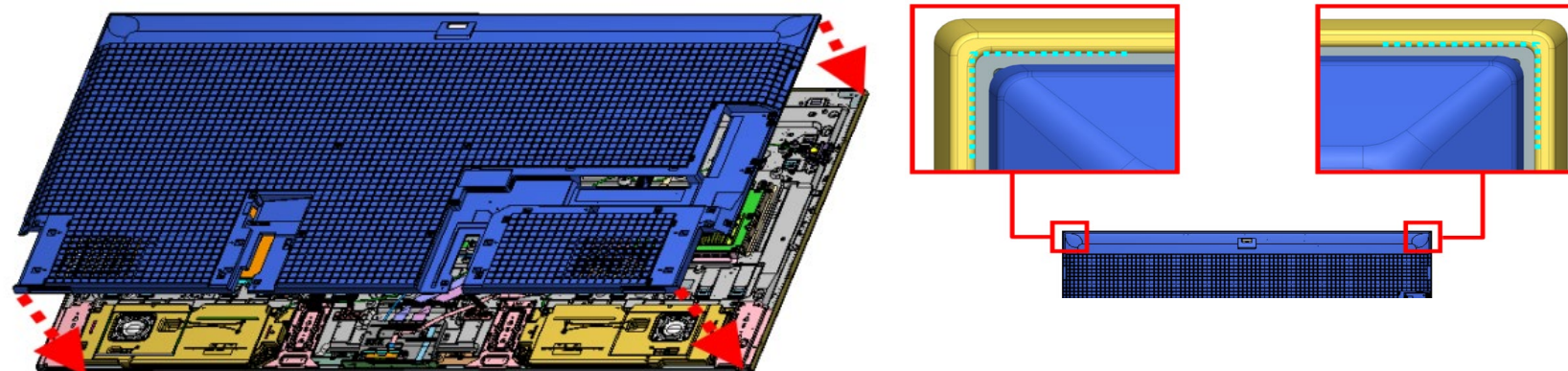


Lift up Rear Cover from Bottom side more

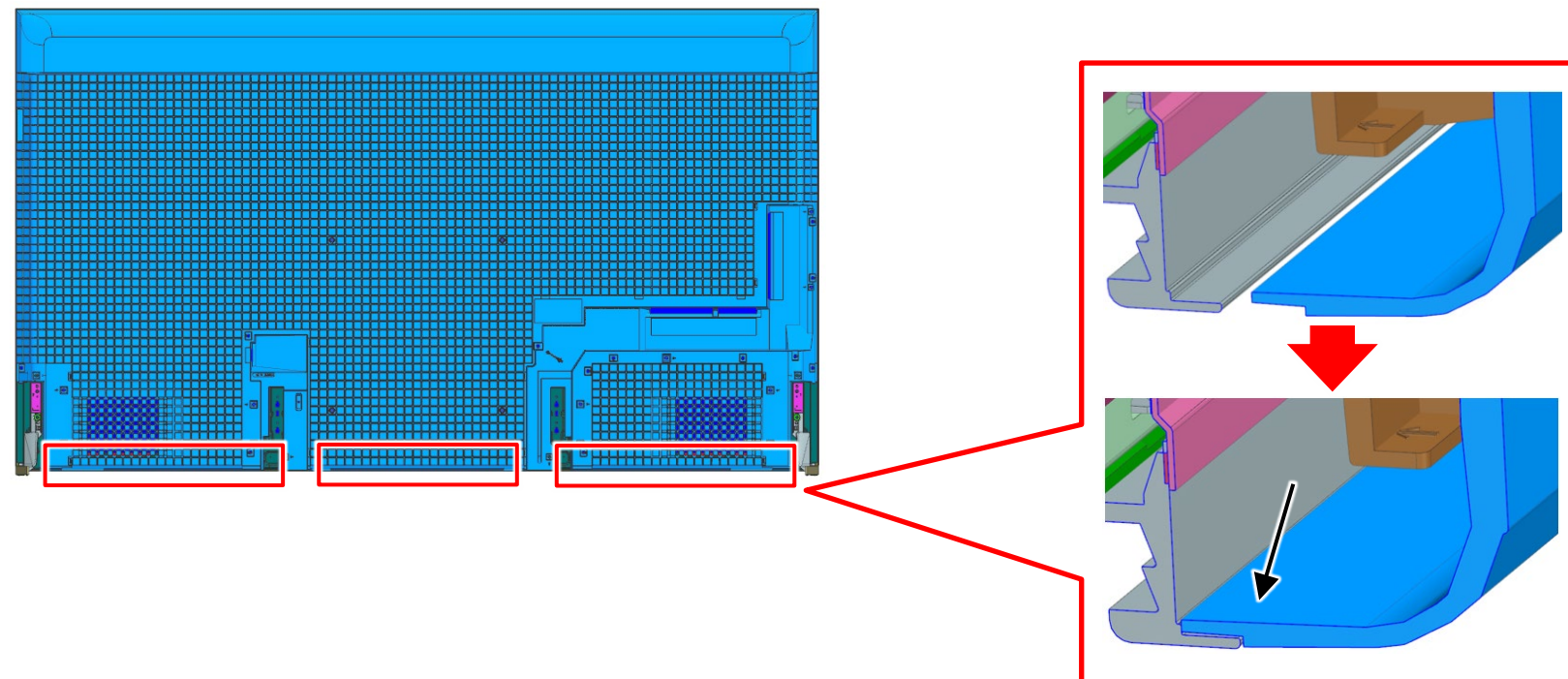
SECTION 2: XR-75X9***2-1. DISASSEMBLY AND REMOVAL CAUTION****REAR COVER**

1. Install REAR COVER.

- (i) REAR COVER aligning.
→ Don't overwrap to the BEZEL.



- (ii) Insert rib of the bottom to the BEZEL.

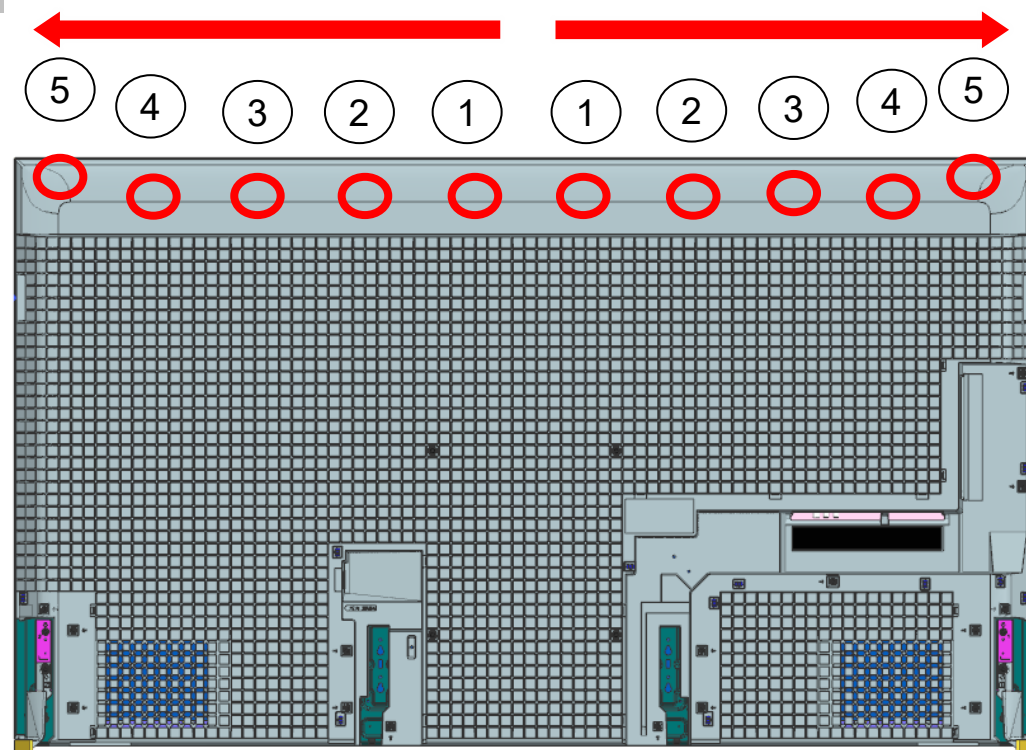


SECTION 2: XR-75X9*

2-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

2. (i) Push and Lock Top Hook (pushing order) (10 pcs).

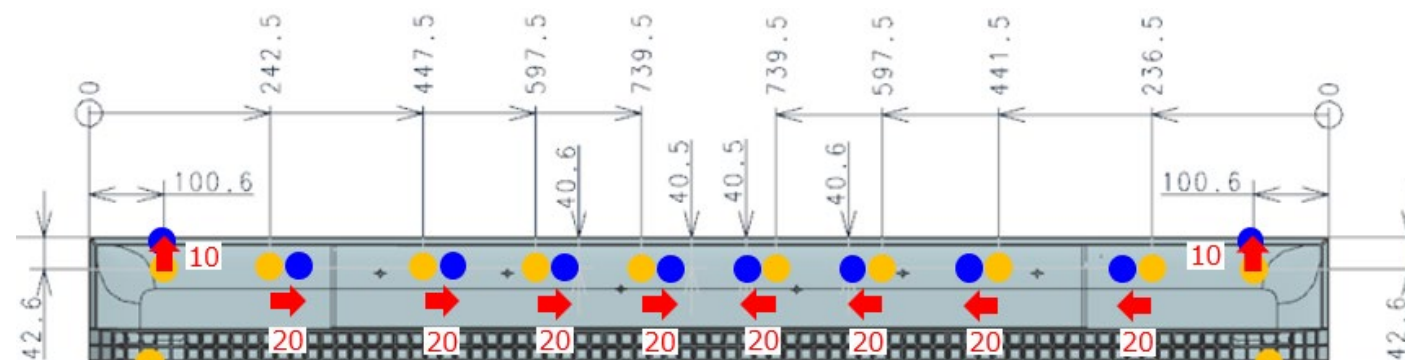


(ii) Push and Lock Top Hook (pushing position) (10 pcs).

Notice:

Please push the inside (10~20mm) of the hook because pushing the outside increases the insertion force.

- Hook position
- Push position

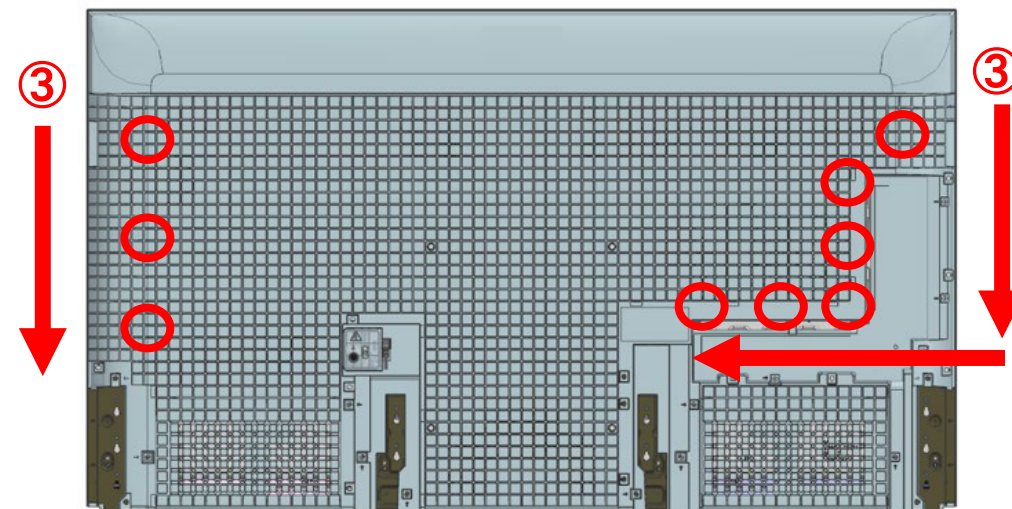


SECTION 2: XR-75X9*

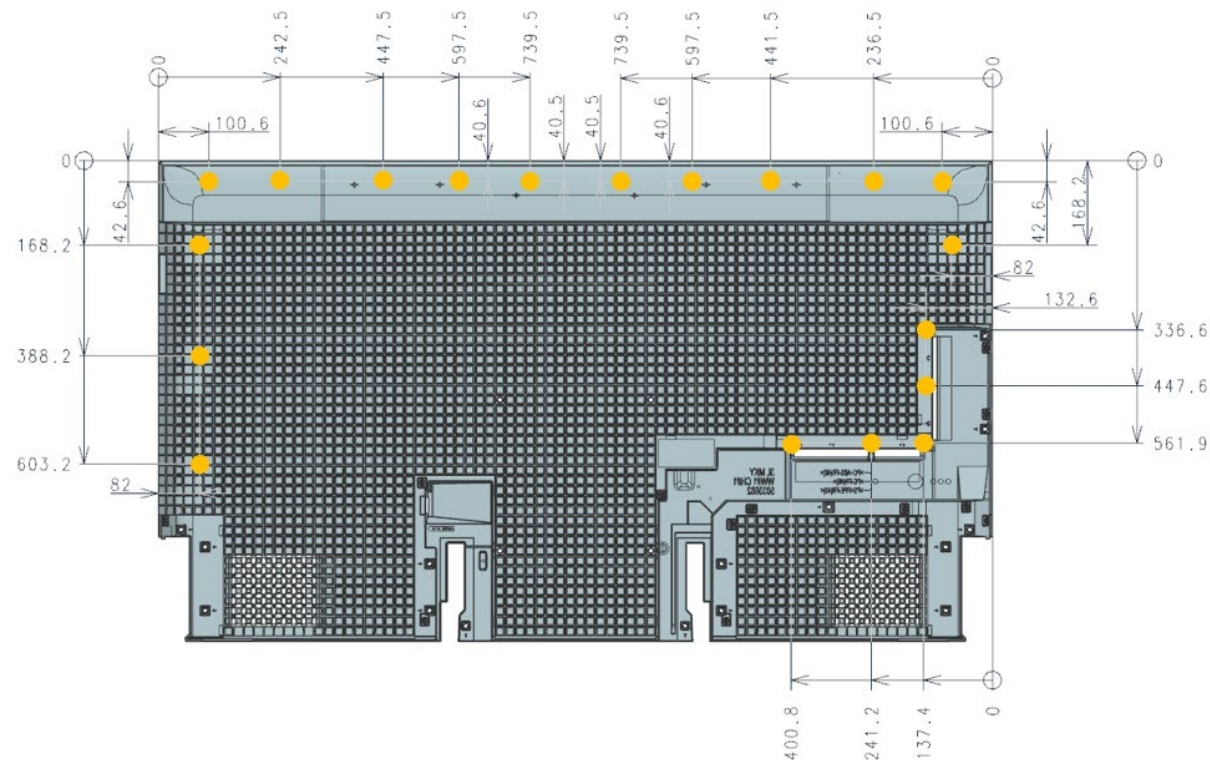
2-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

3. Push and Lock Side and Bracket Hook (pushing order).

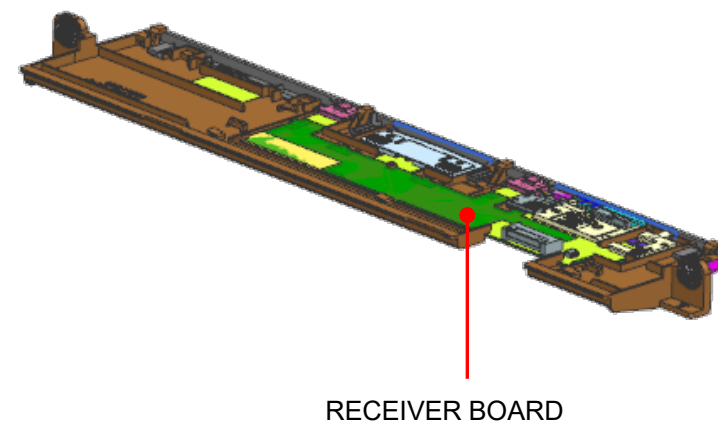
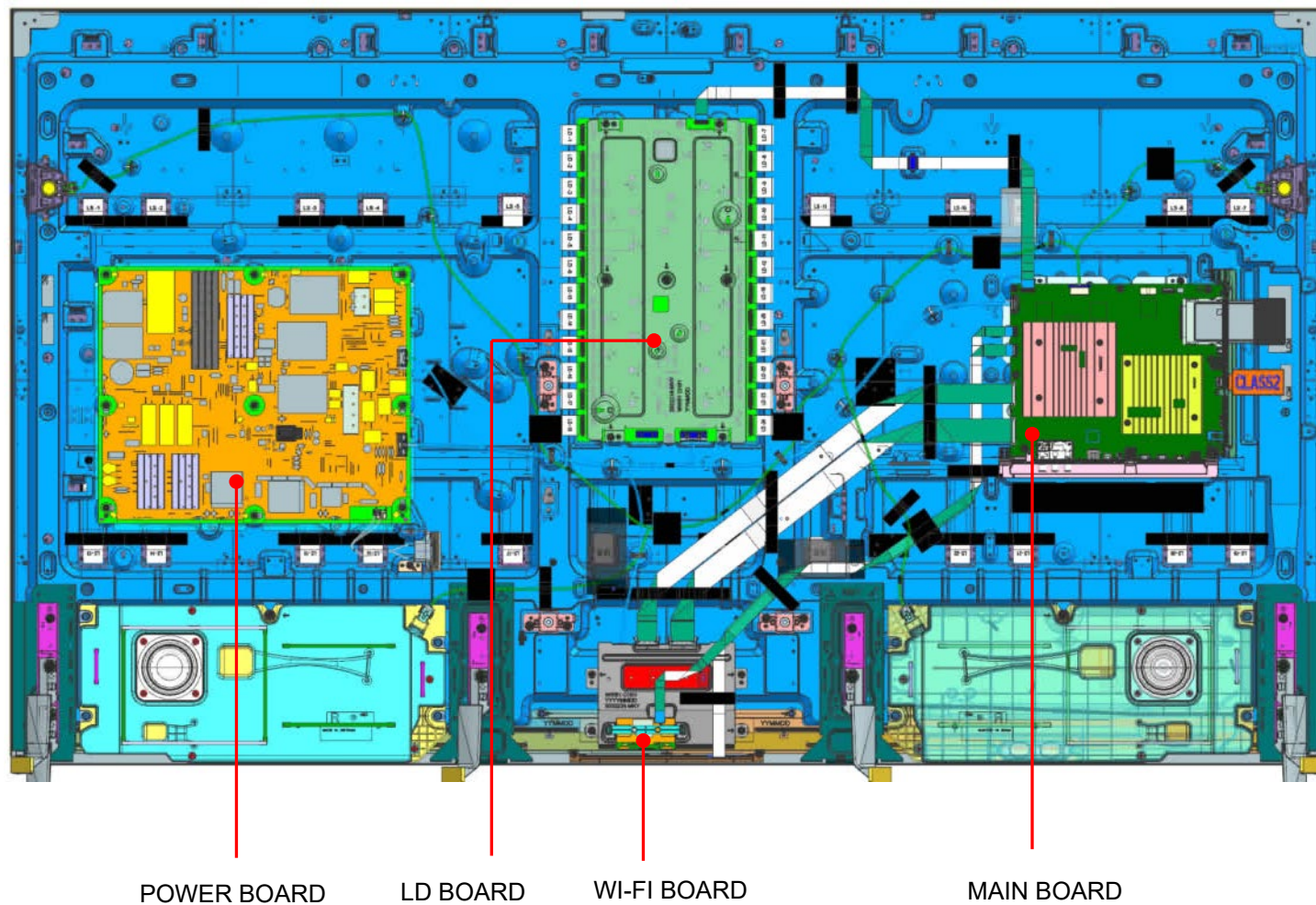


Hook Position.



SECTION 2: XR-75X9*

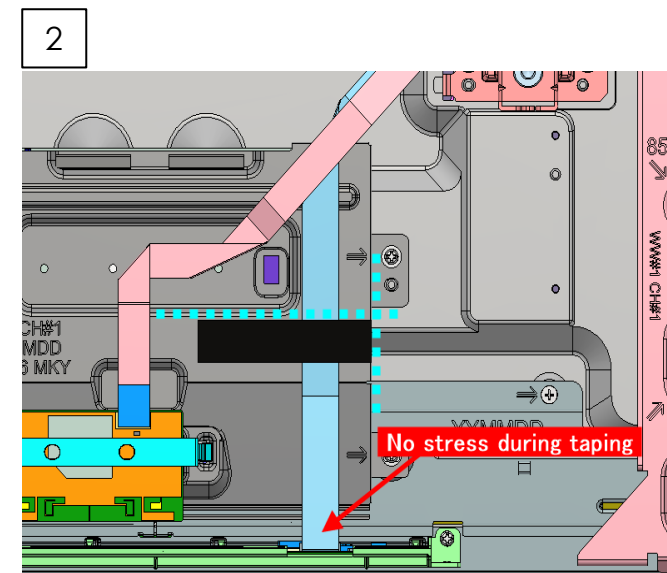
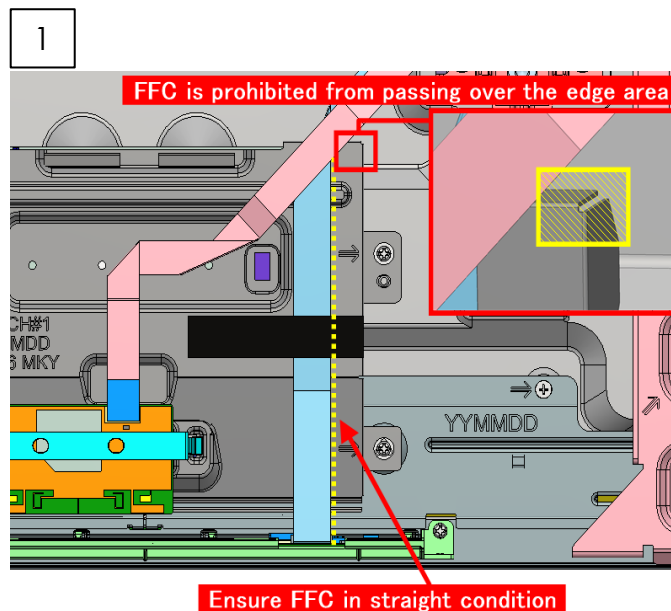
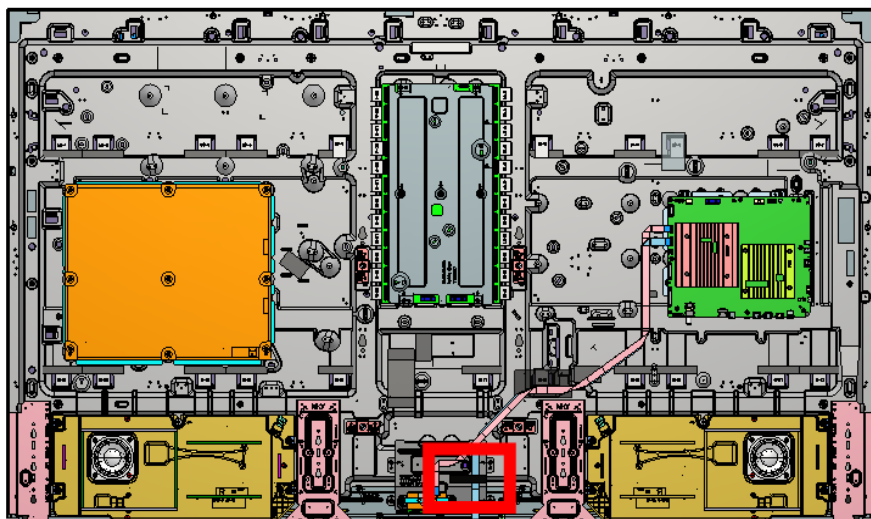
2-2. BOARD LOCATION



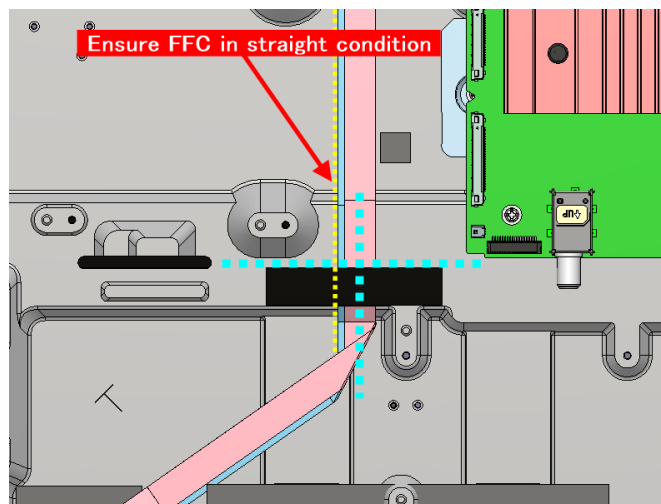
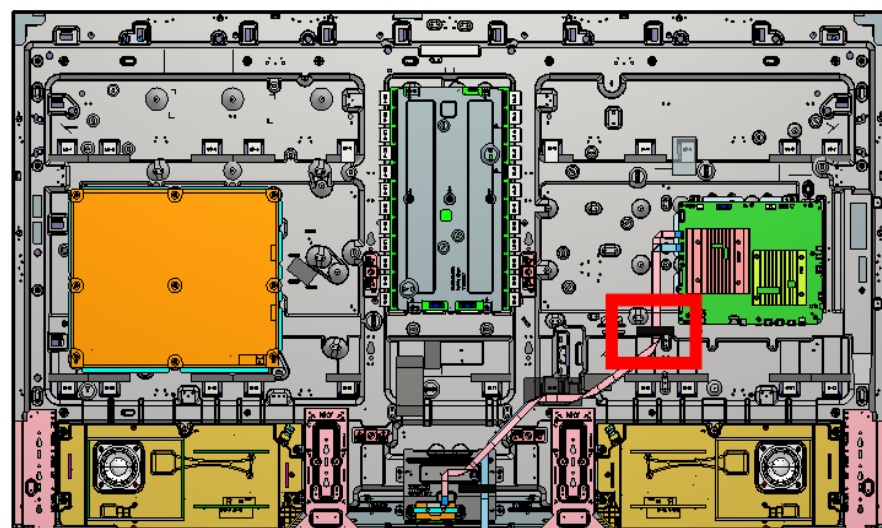
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

TAPE



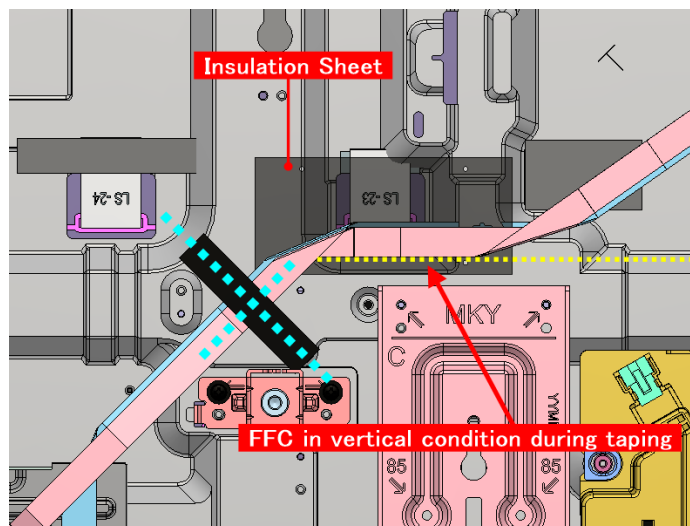
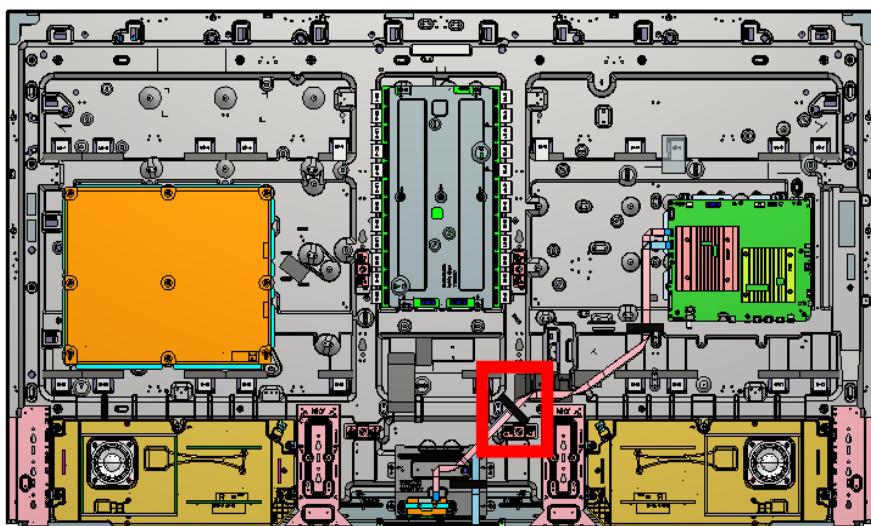
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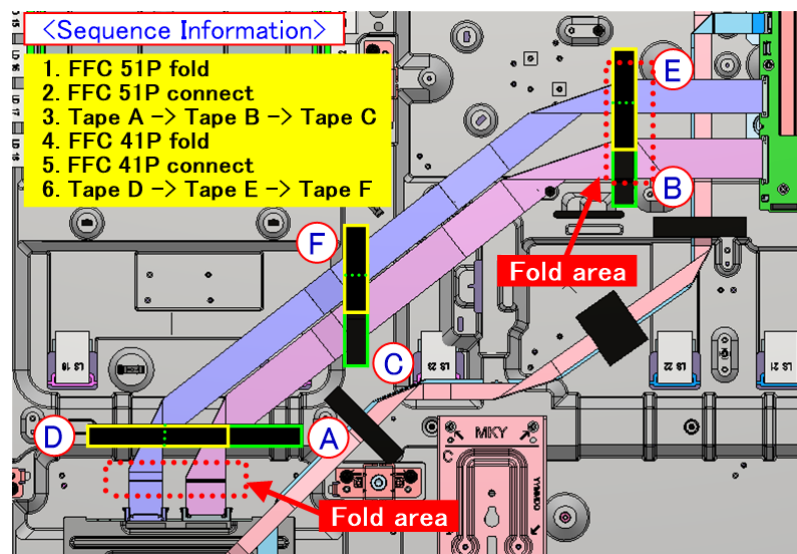
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

TAPE



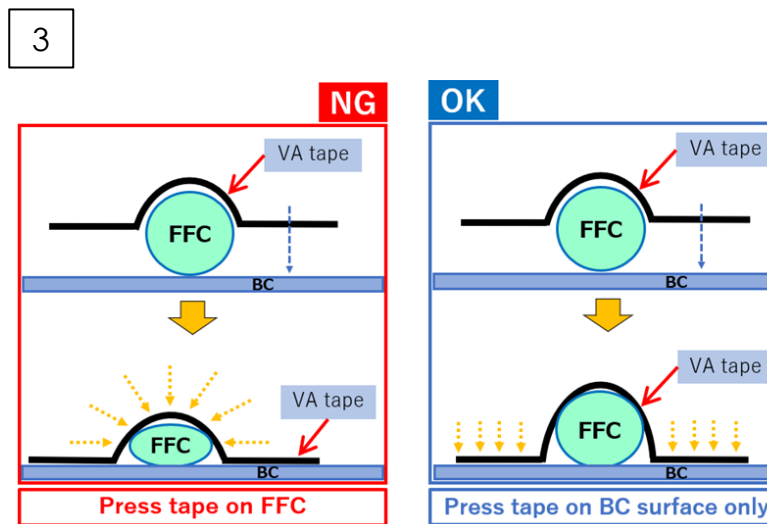
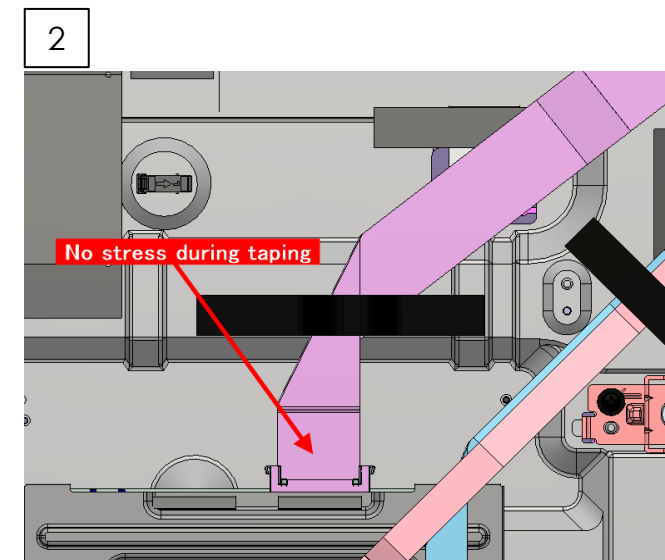
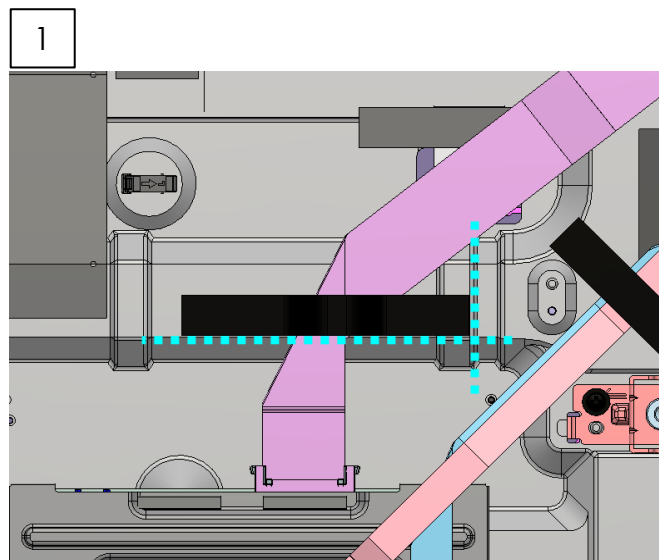
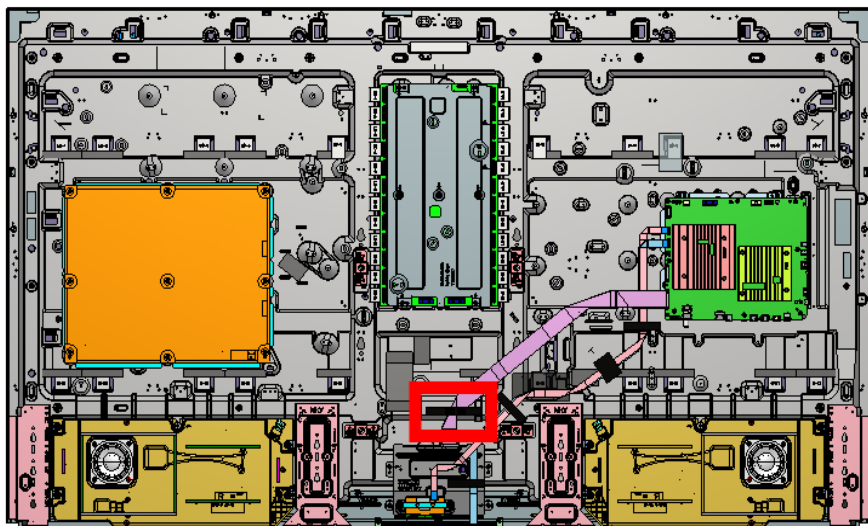
INFORMATION



SECTION 2: XR-75X9*

2-3. WIRE DRESSING

TAPE

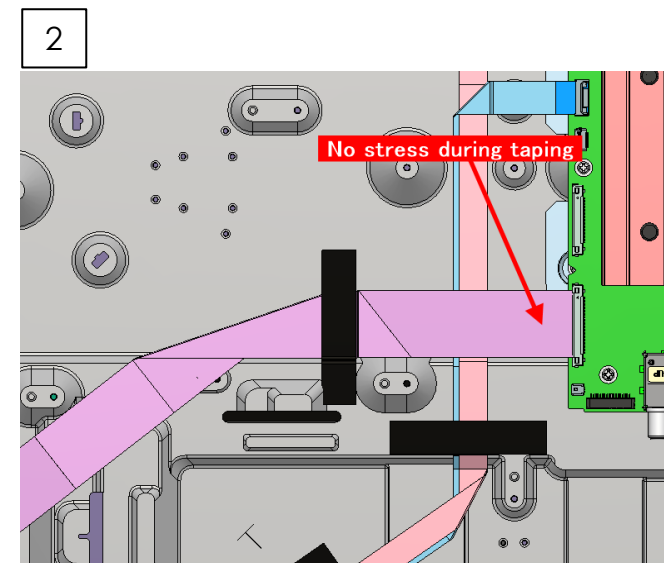
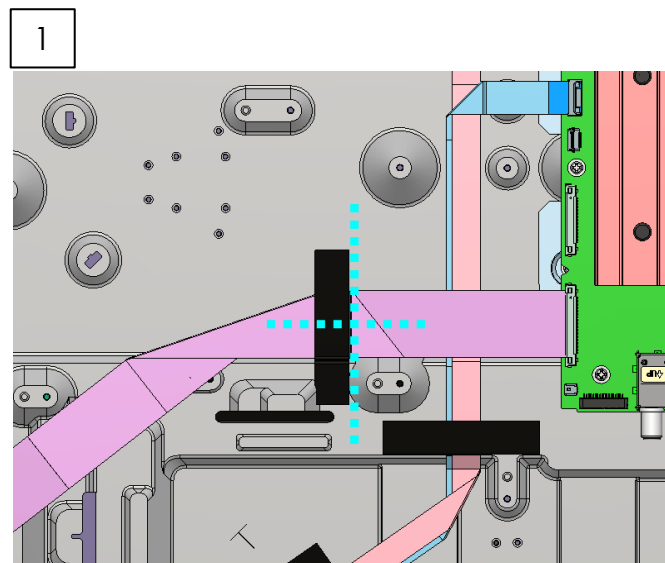
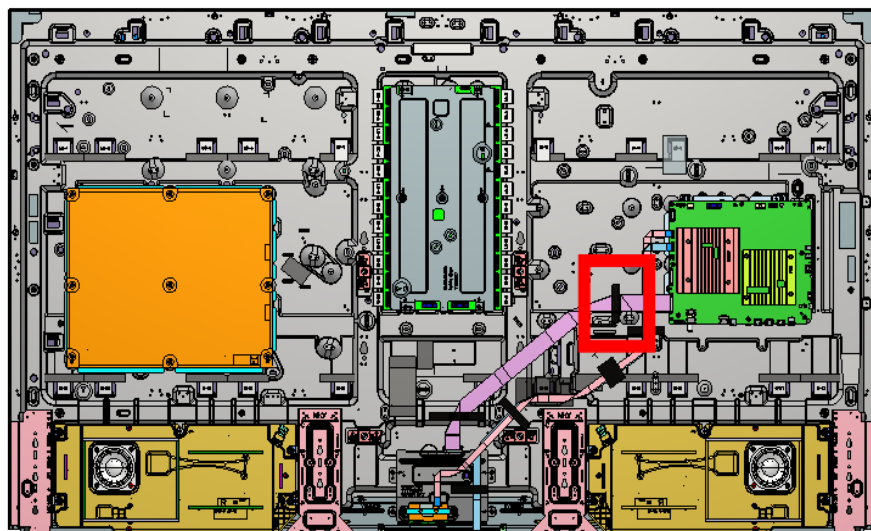


Caution : Do not press tape on FFC

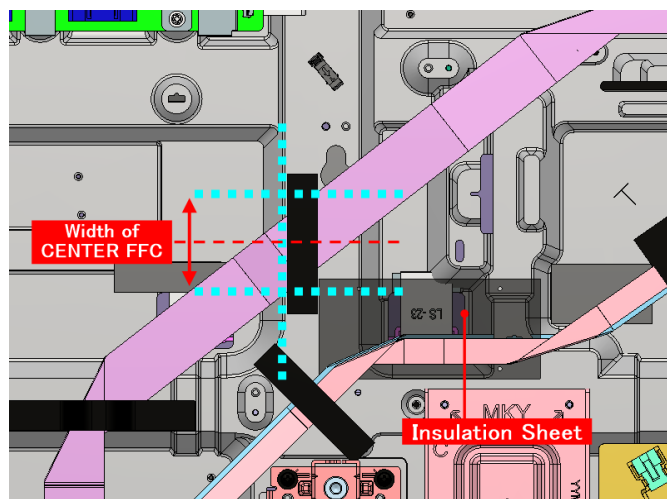
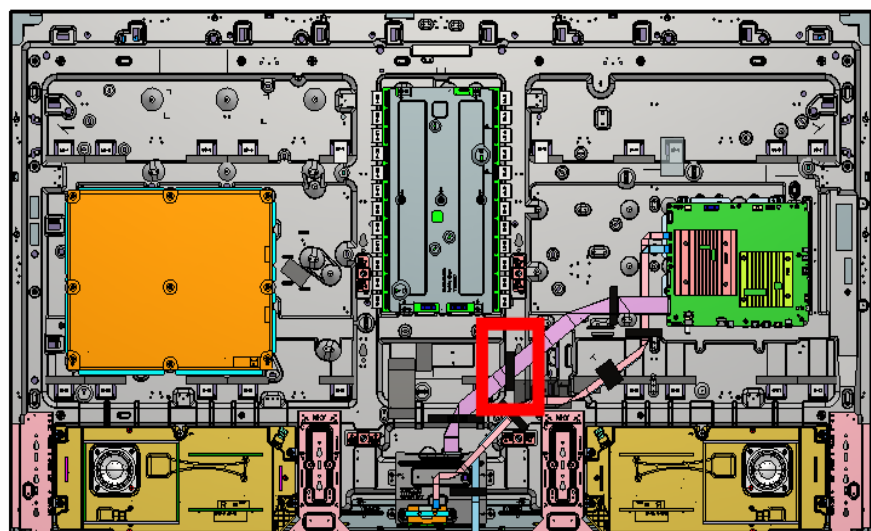
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

TAPE



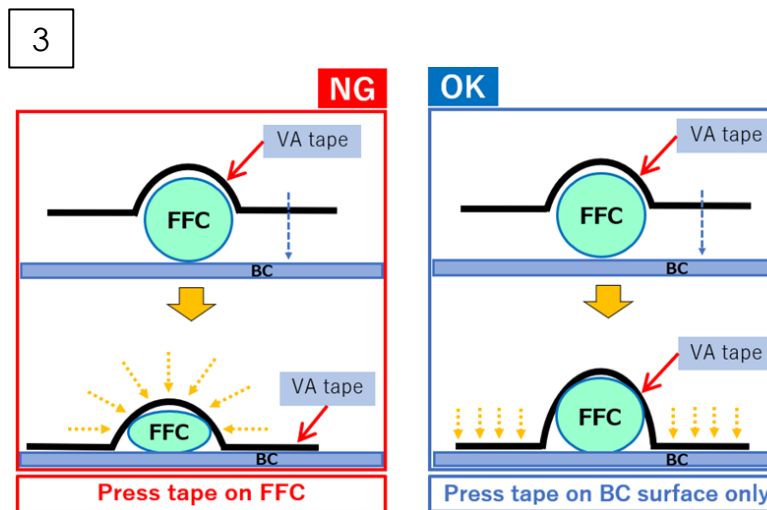
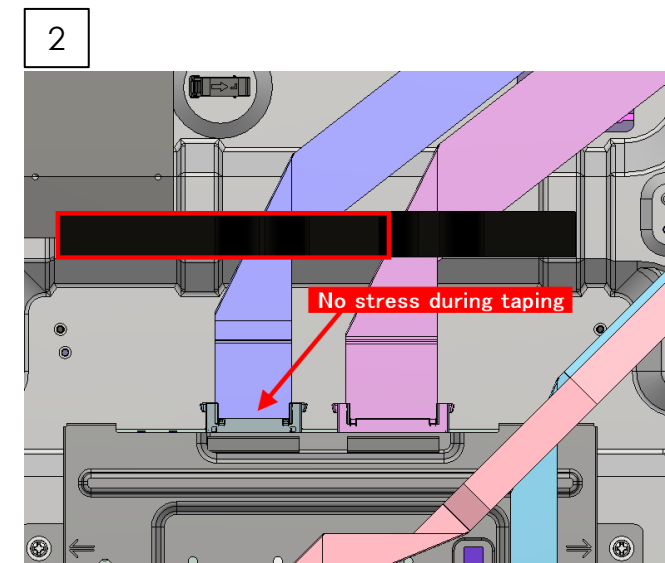
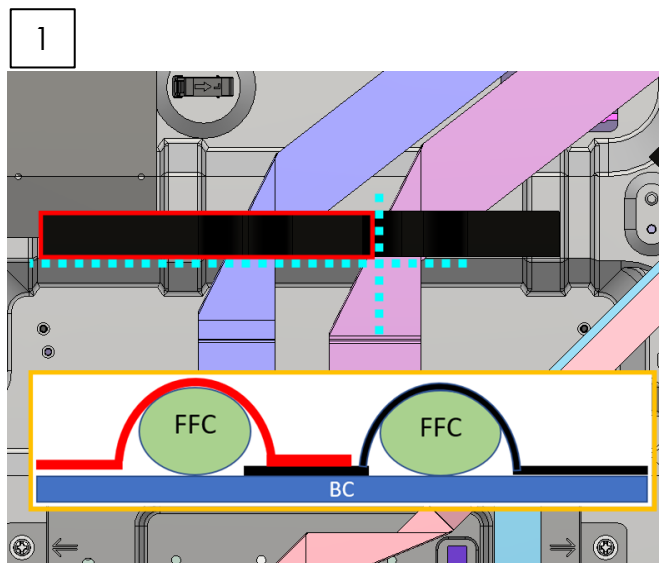
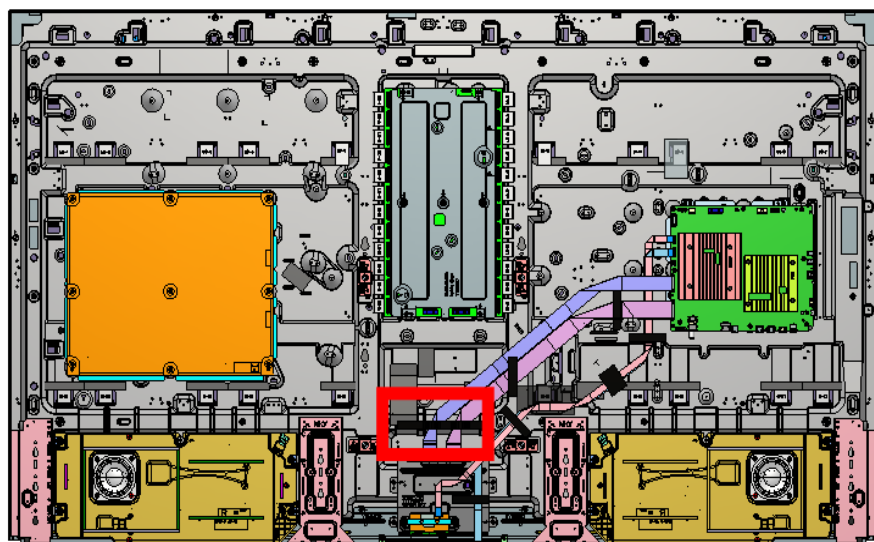
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SECTION 2: XR-75X9*

2-3. WIRE DRESSING

TAPE

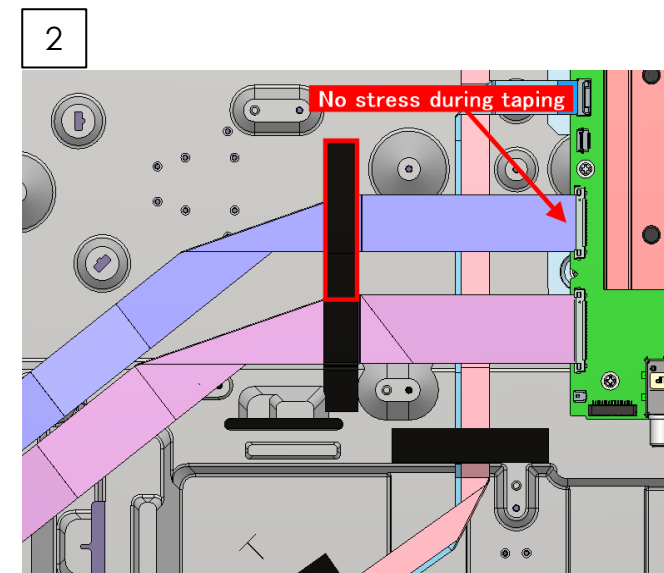
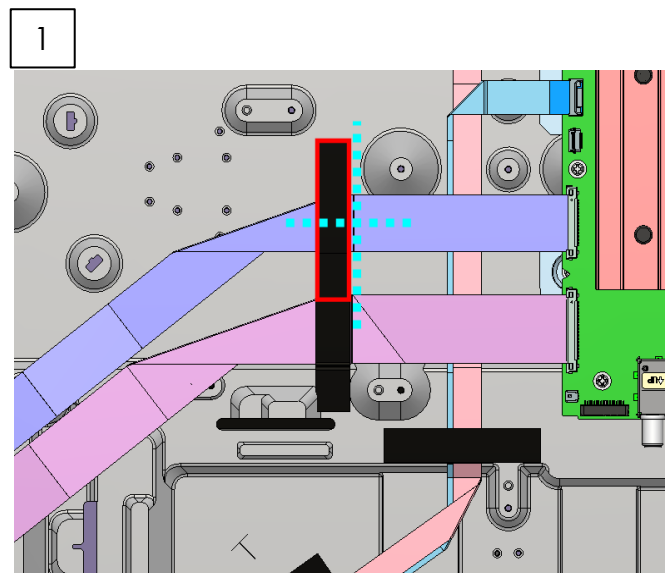
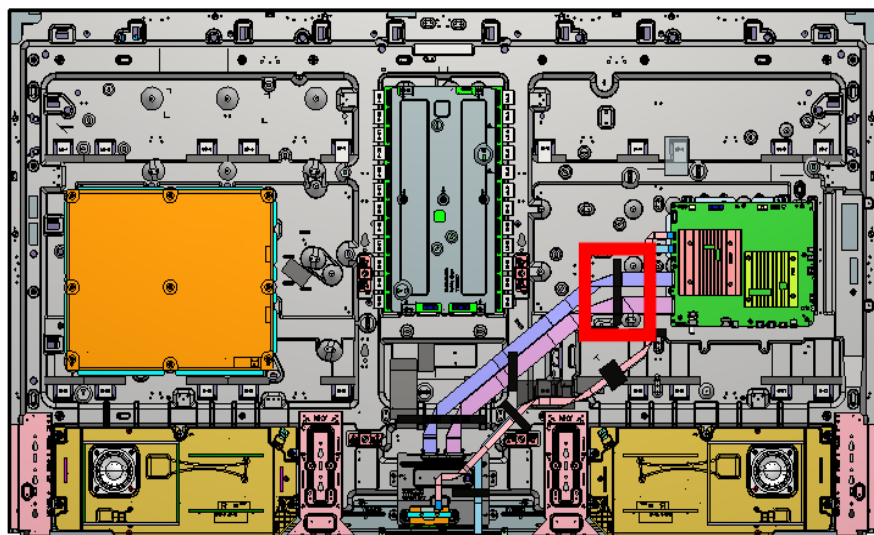


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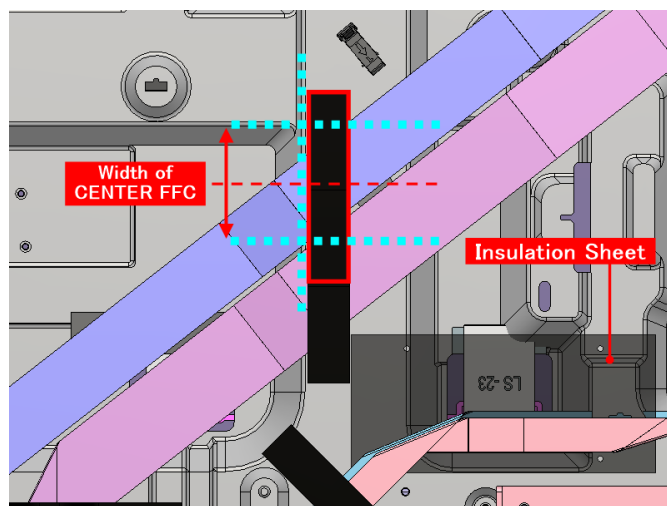
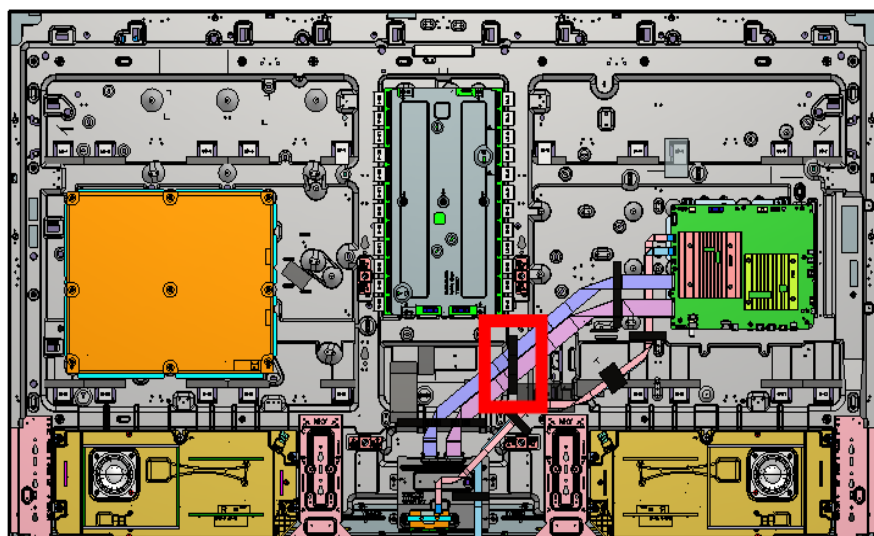
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

TAPE



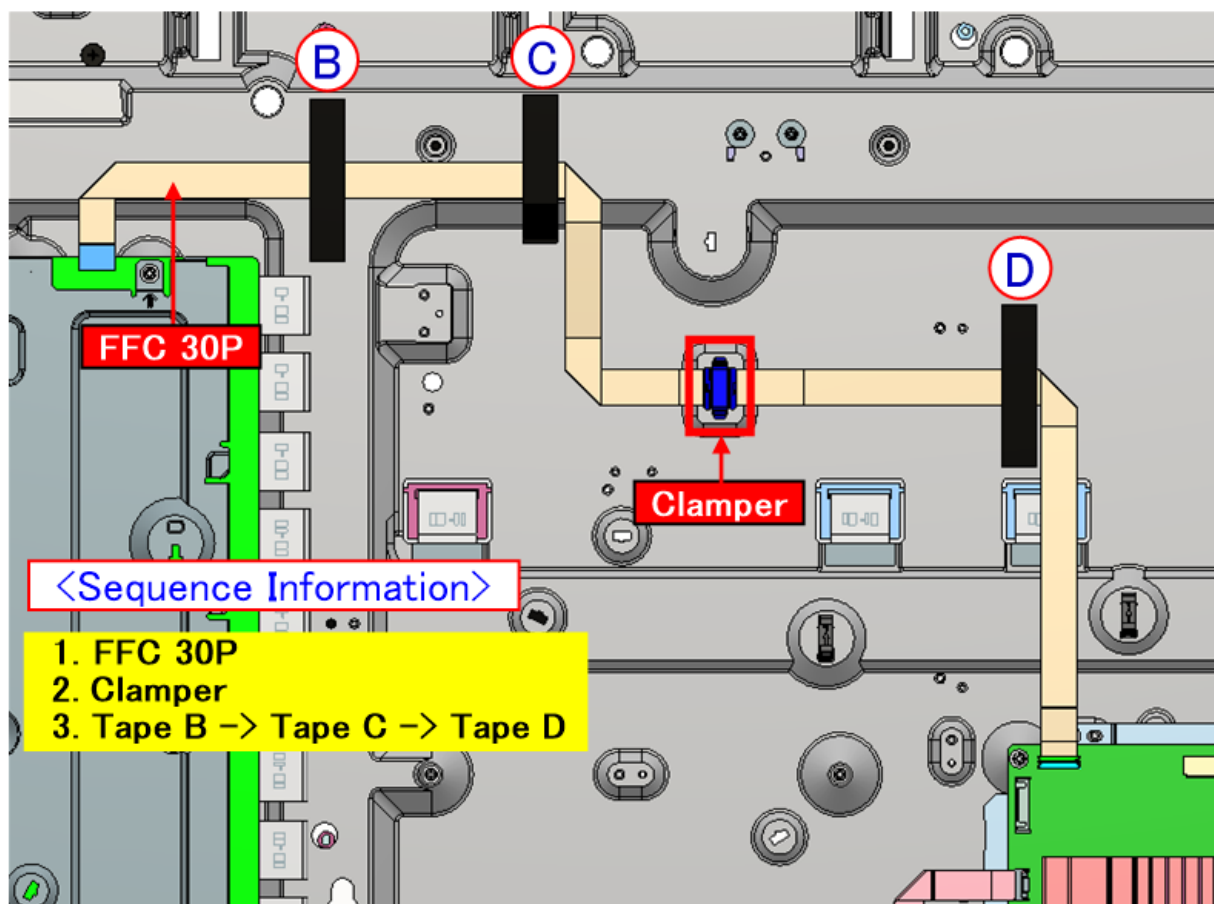
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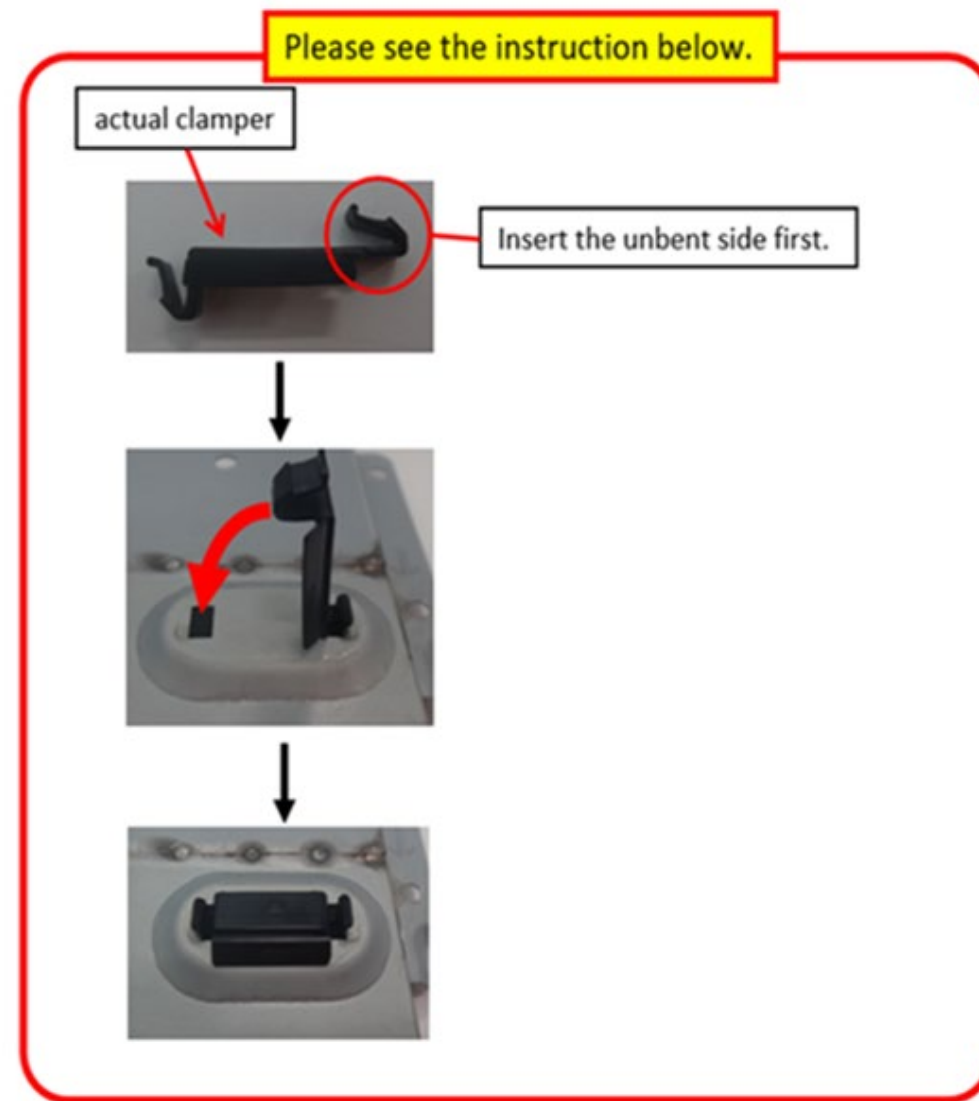
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

INFORMATION



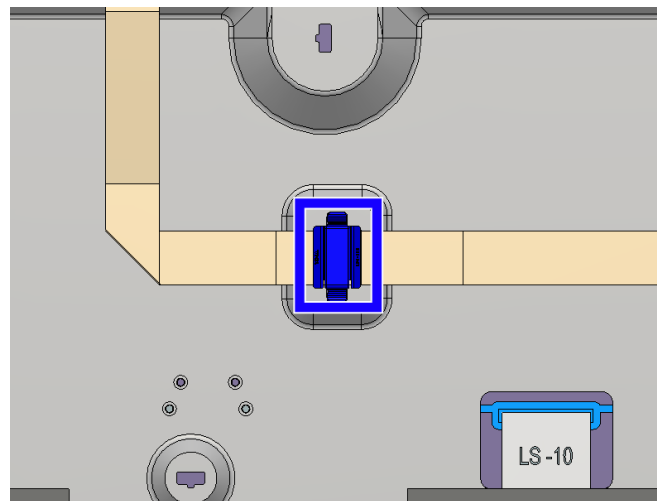
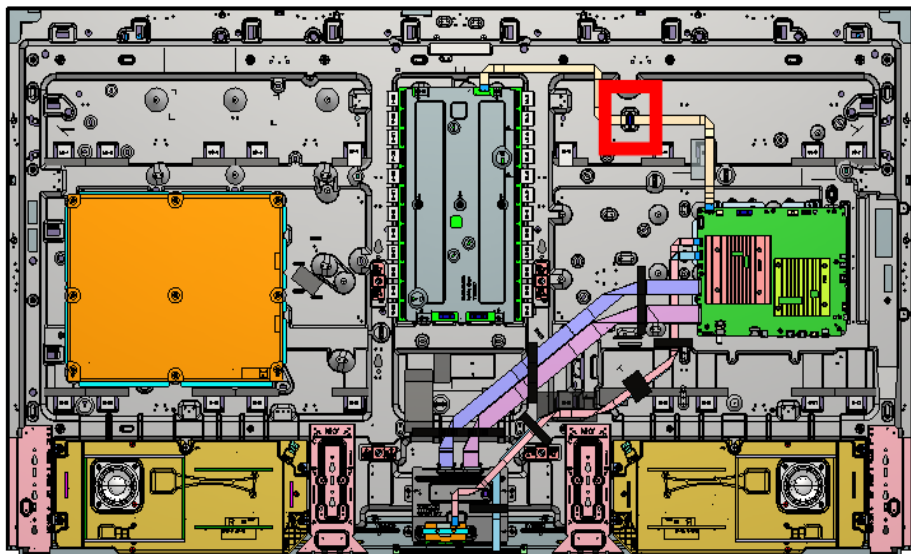
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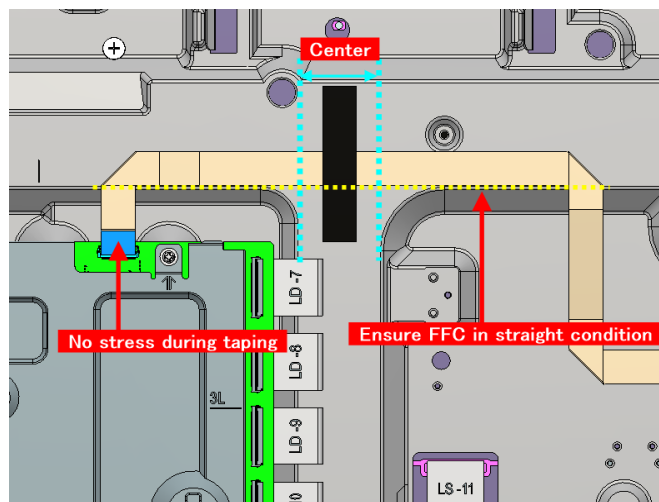
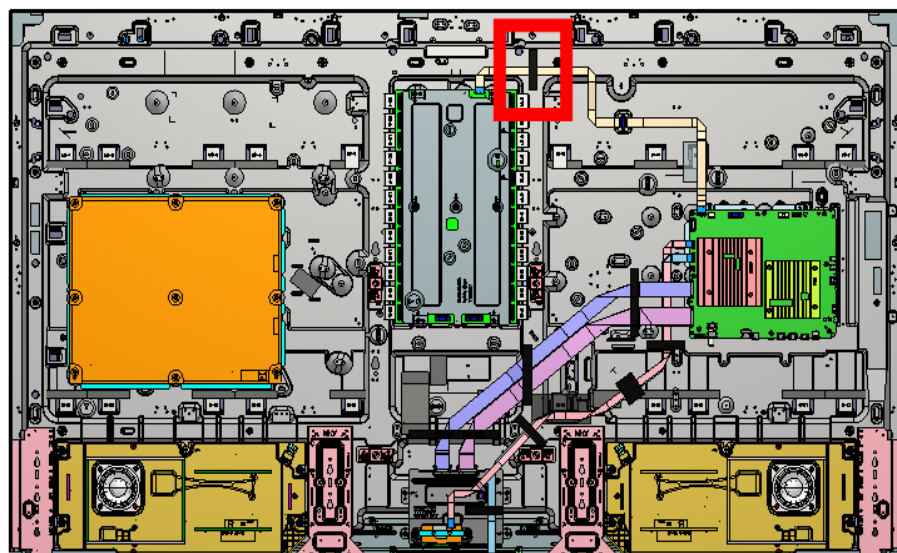
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

WIRE DRESSING



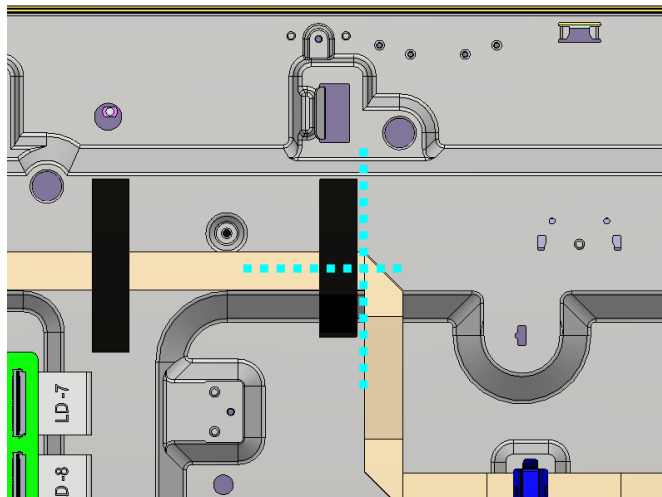
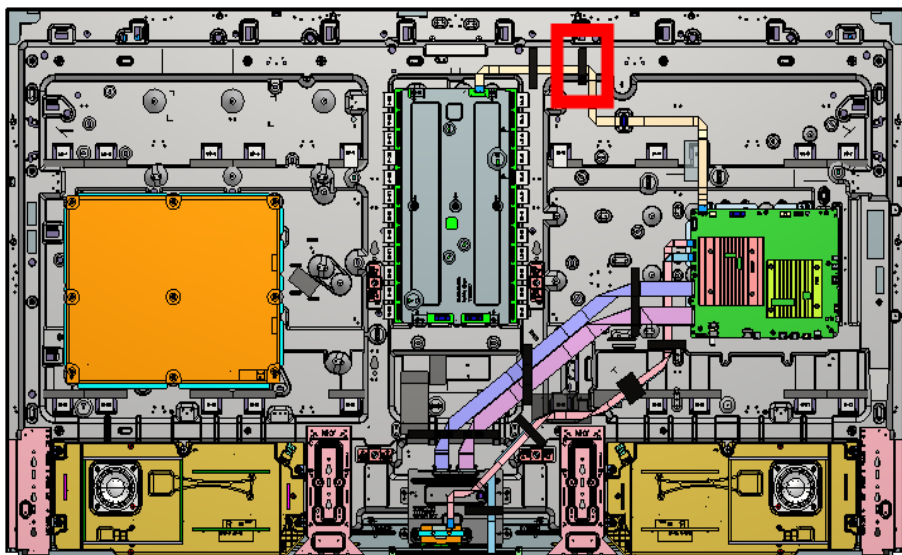
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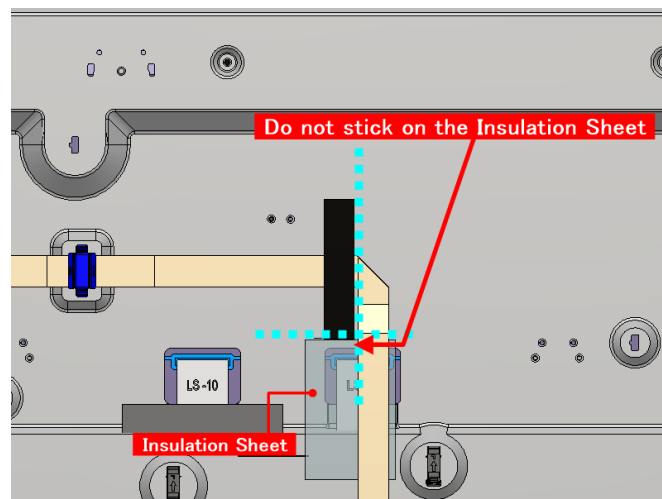
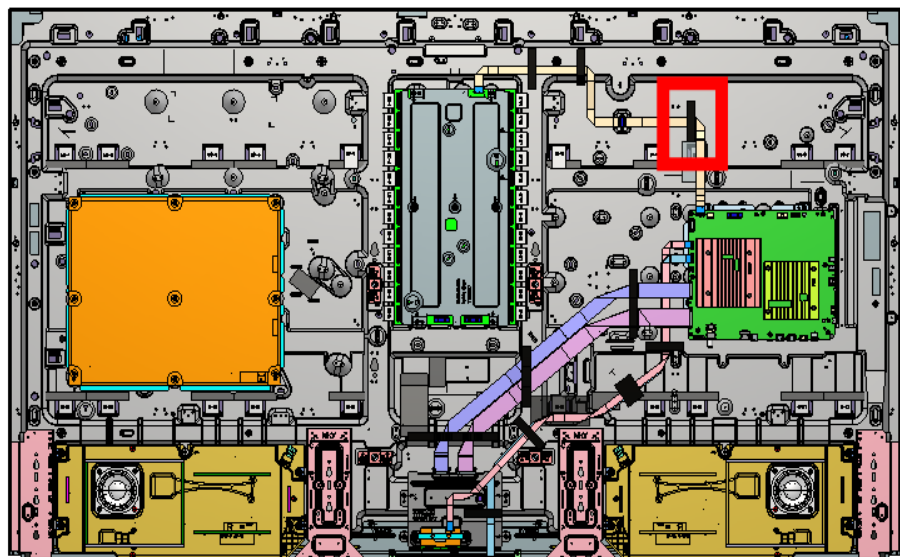
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

TAPE



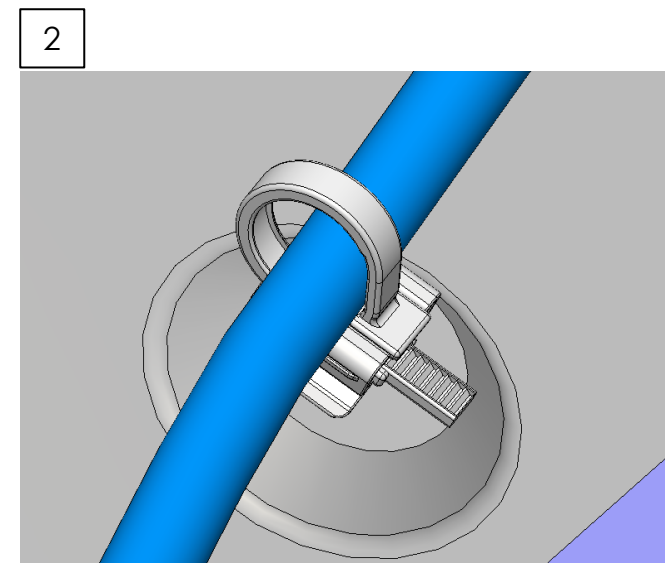
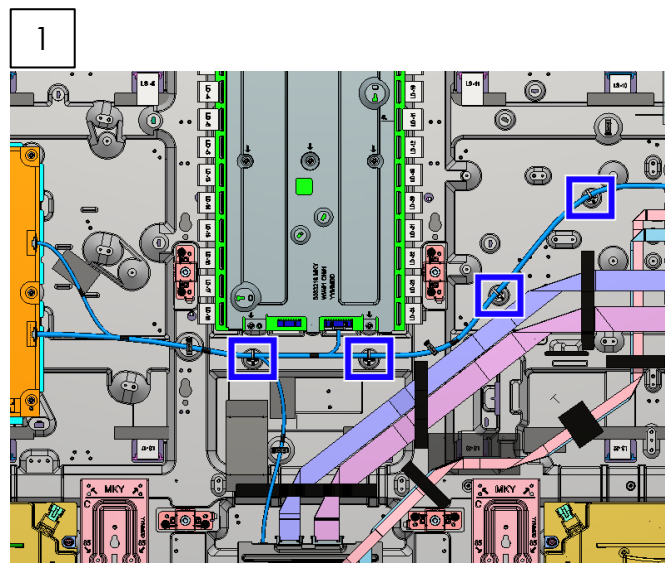
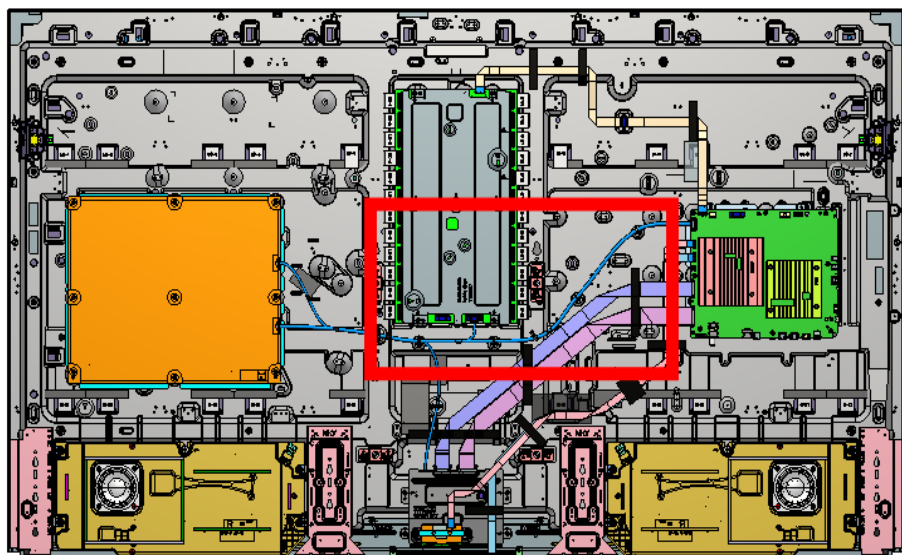
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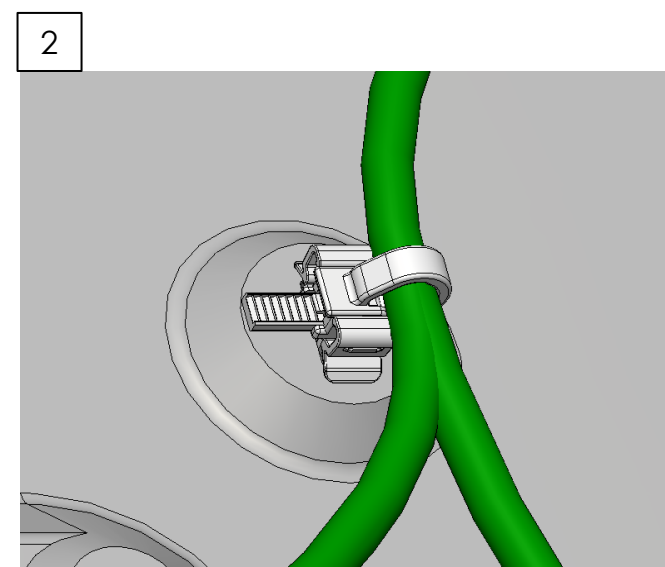
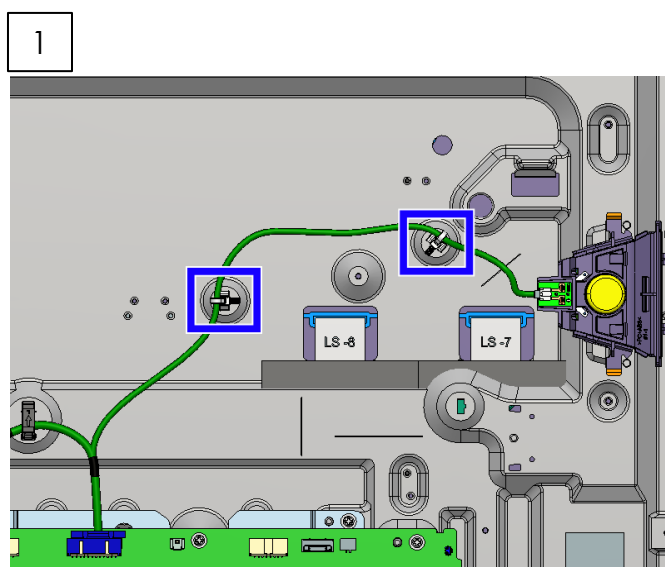
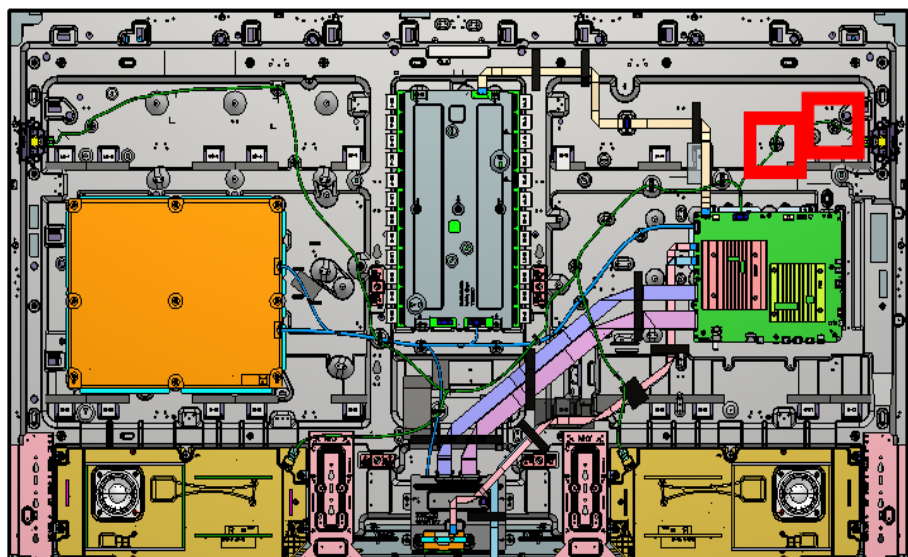
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

WIRE DRESSING



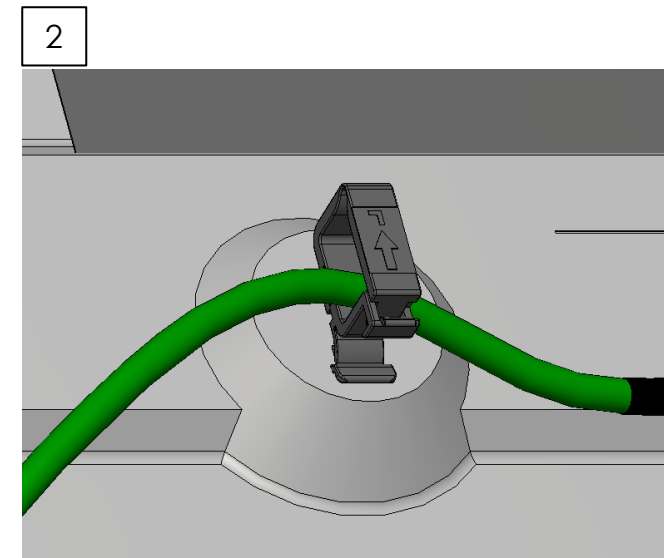
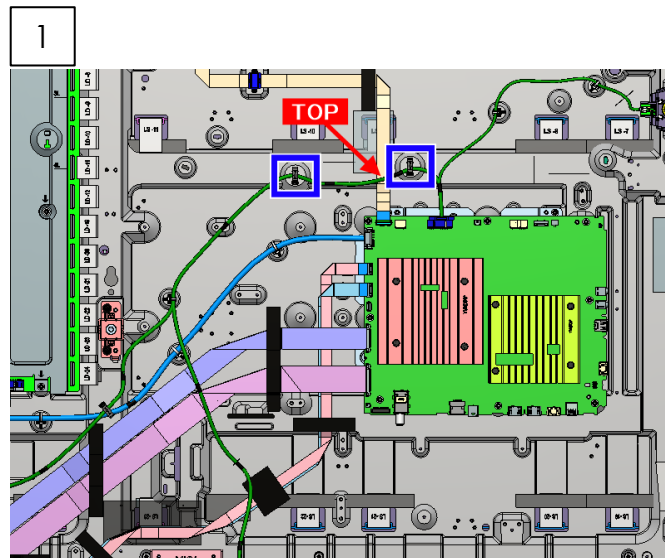
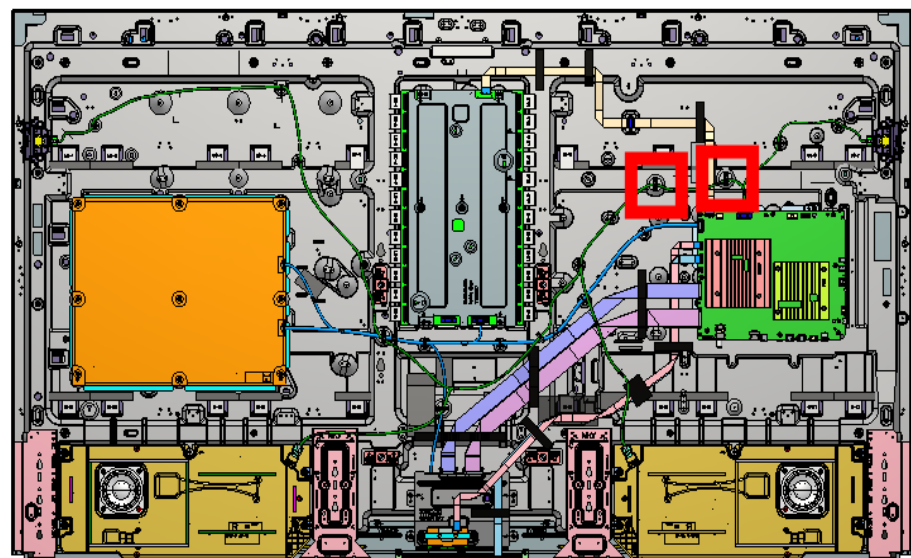
WIRE DRESSING



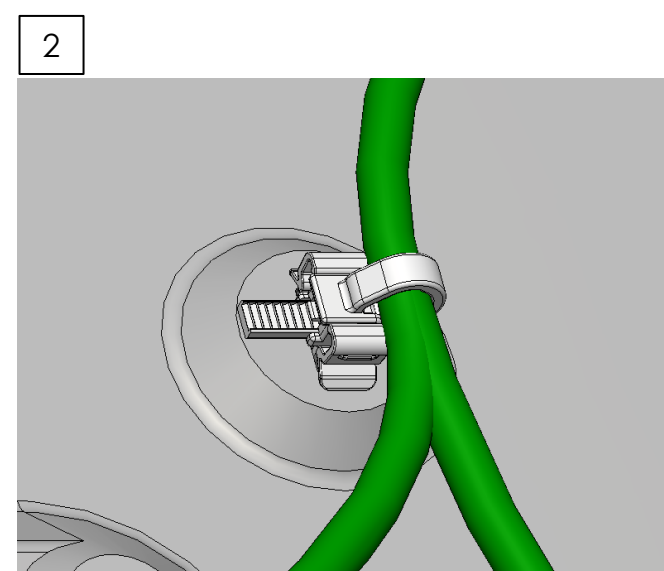
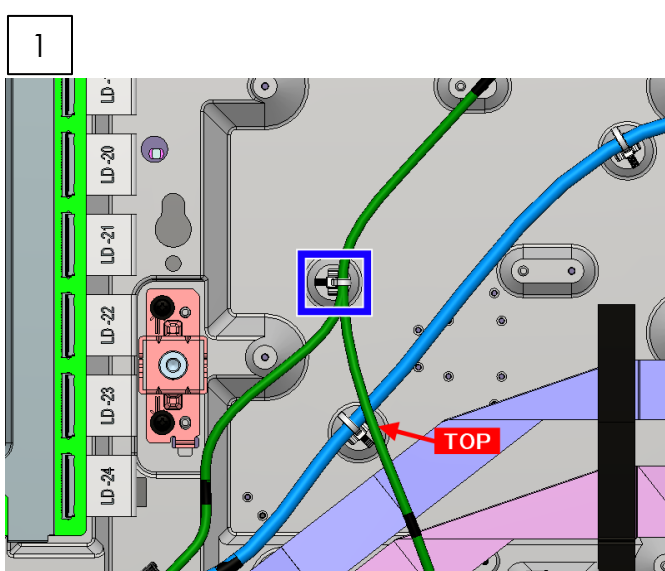
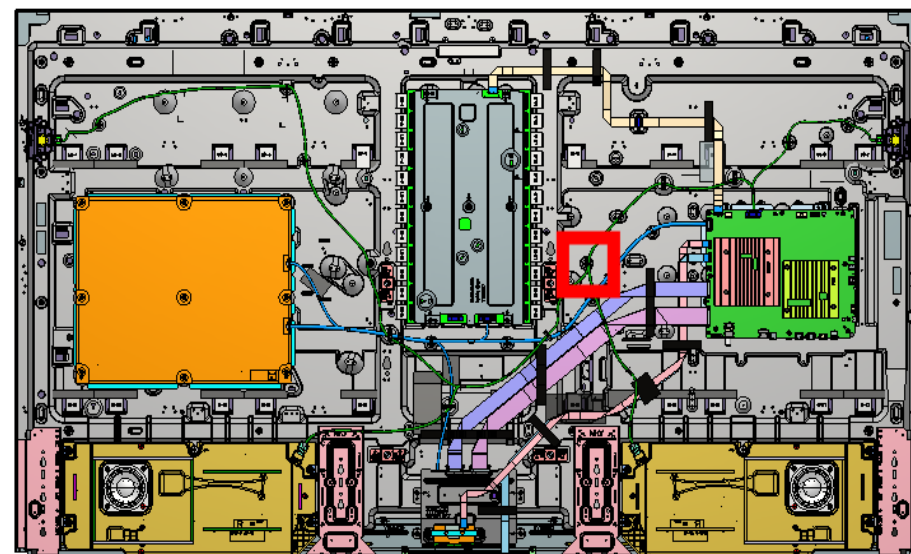
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

WIRE DRESSING



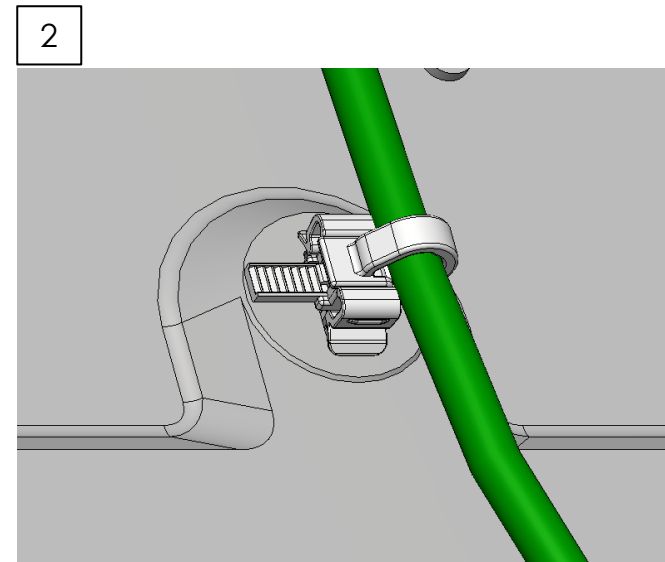
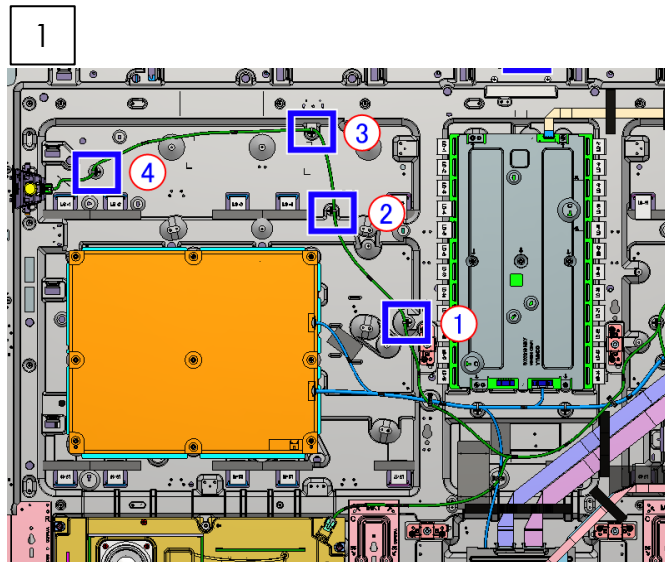
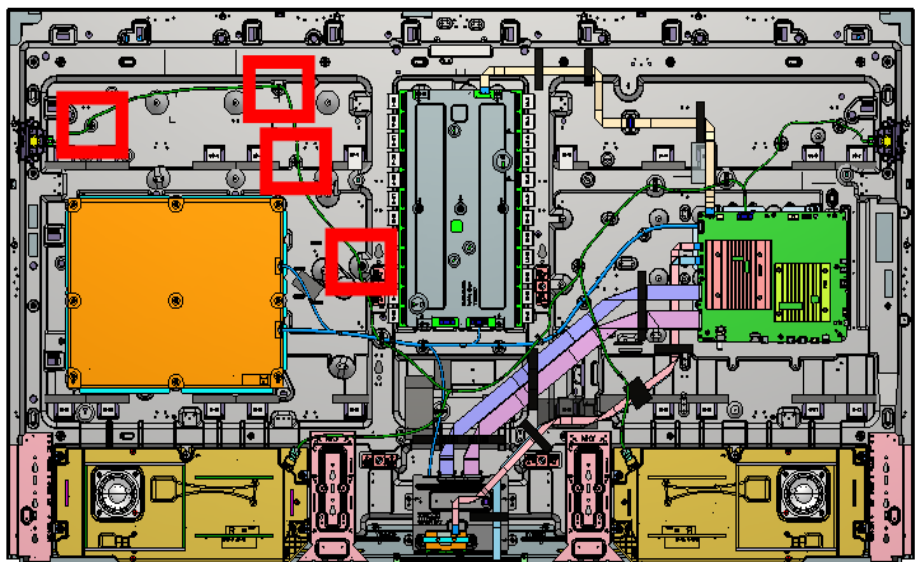
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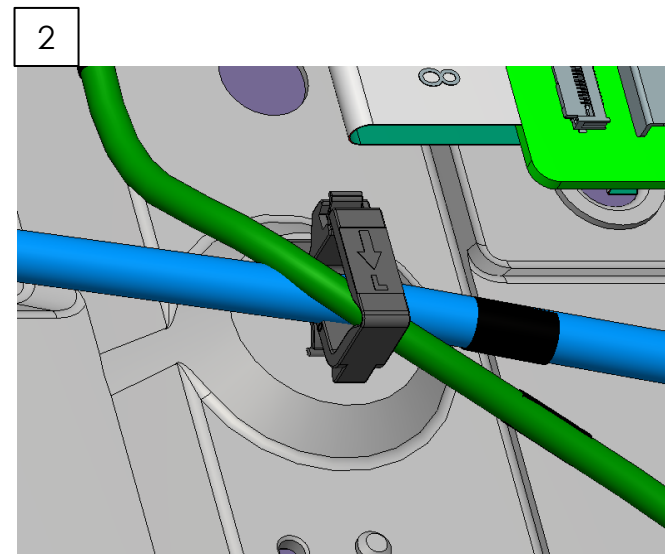
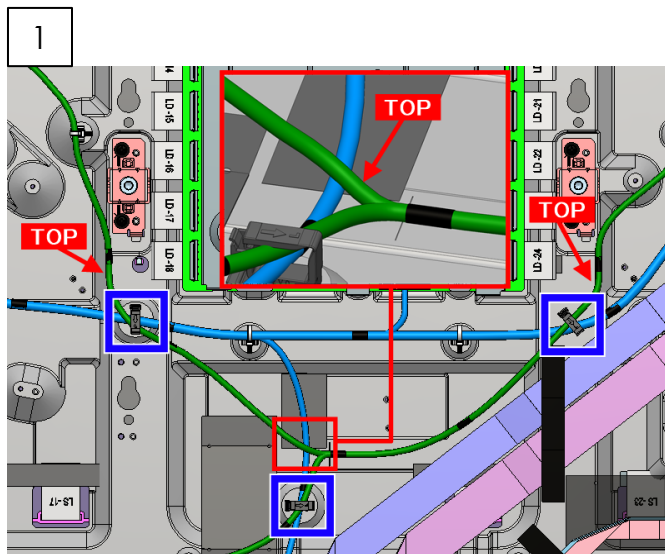
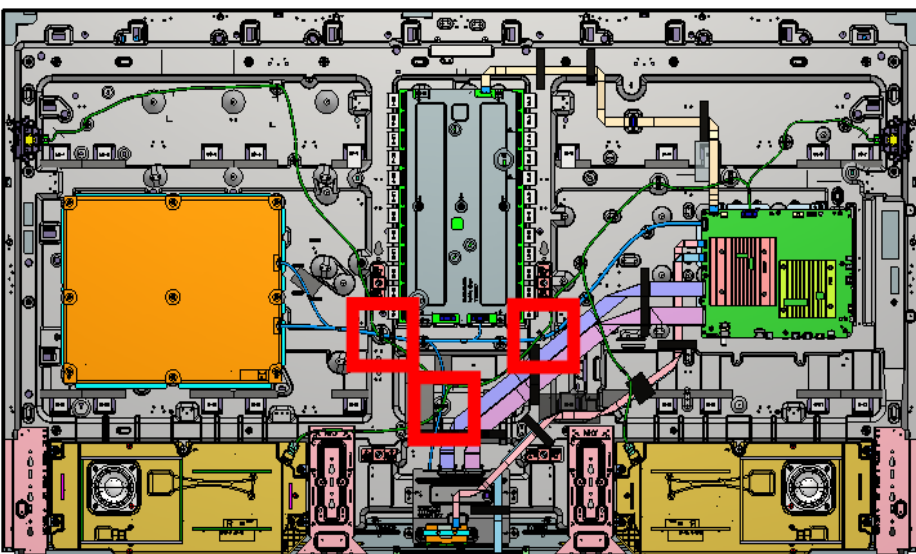
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

WIRE DRESSING



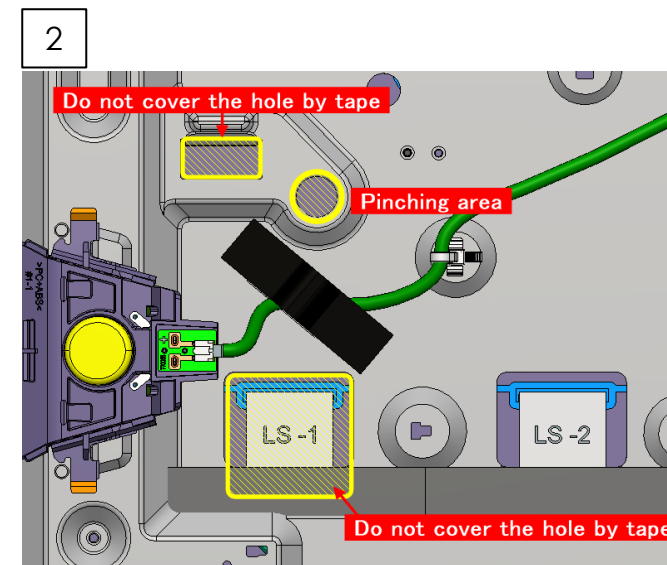
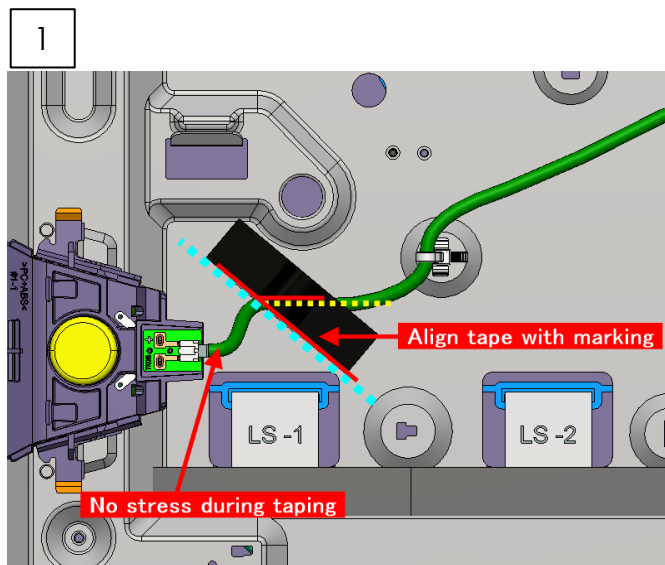
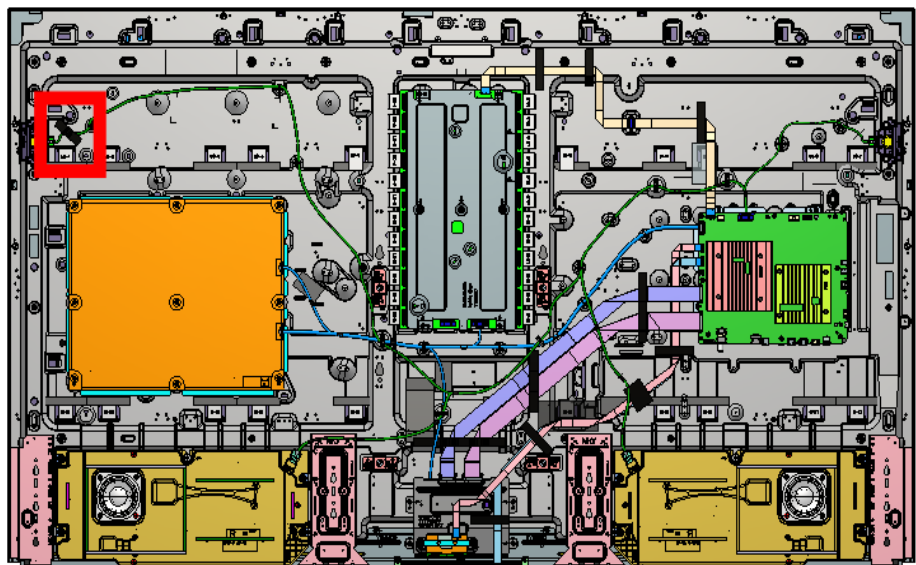
WIRE DRESSING



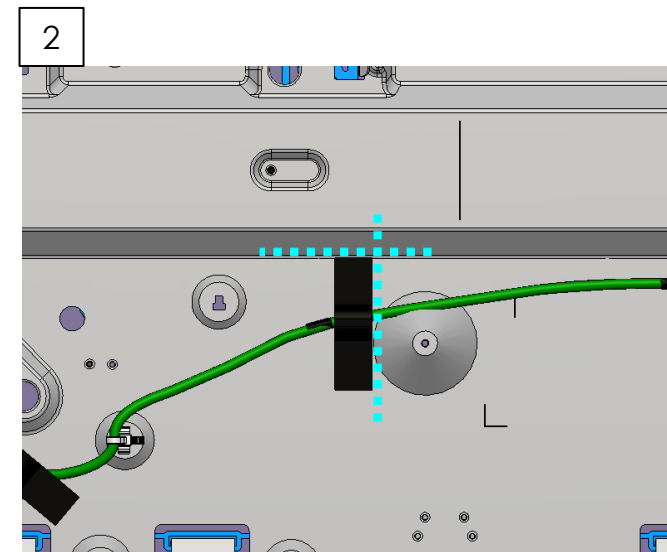
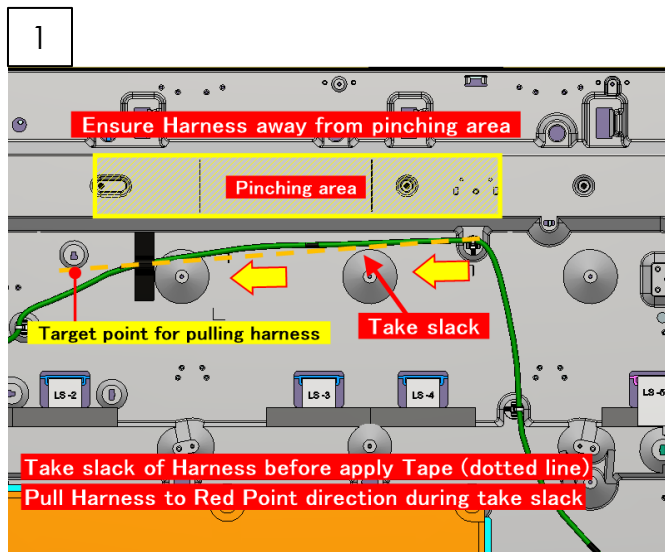
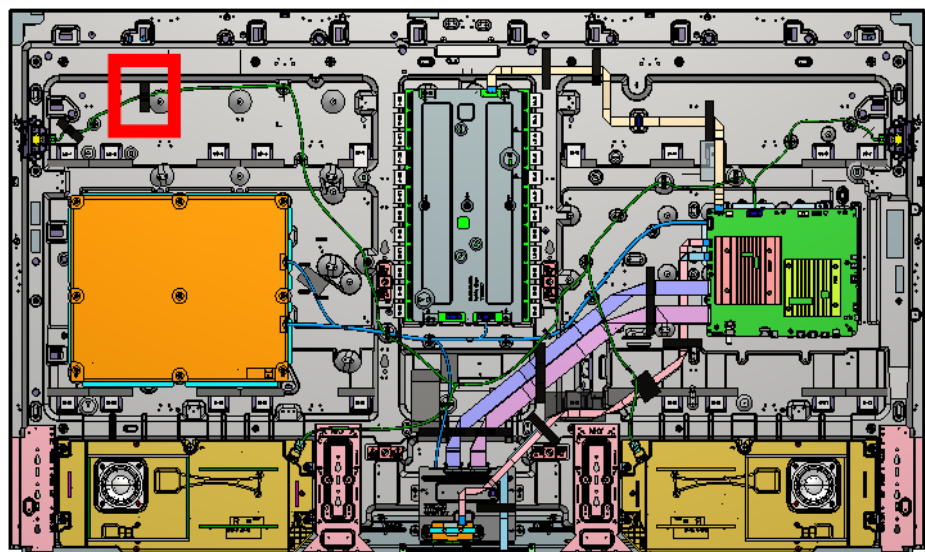
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

TAPE



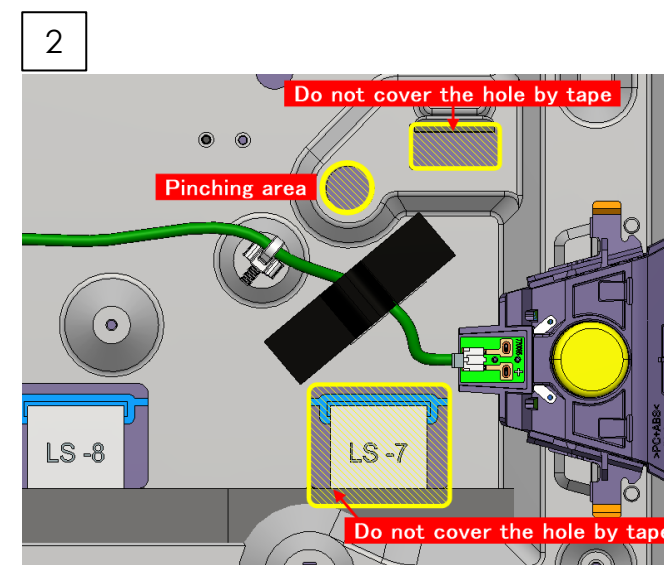
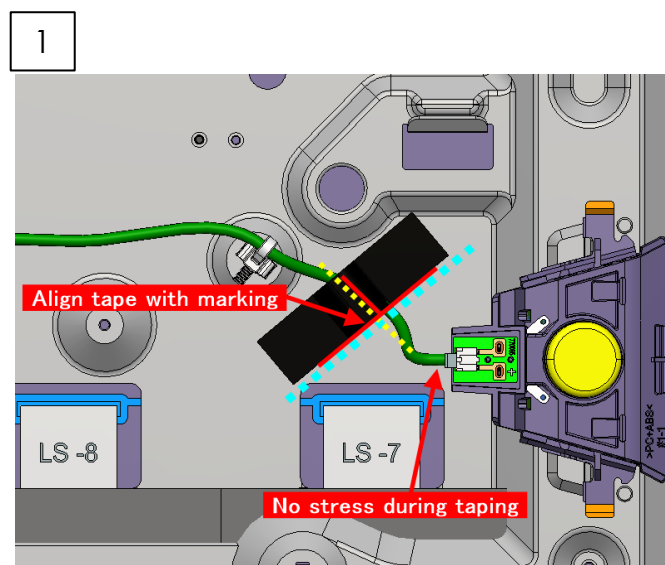
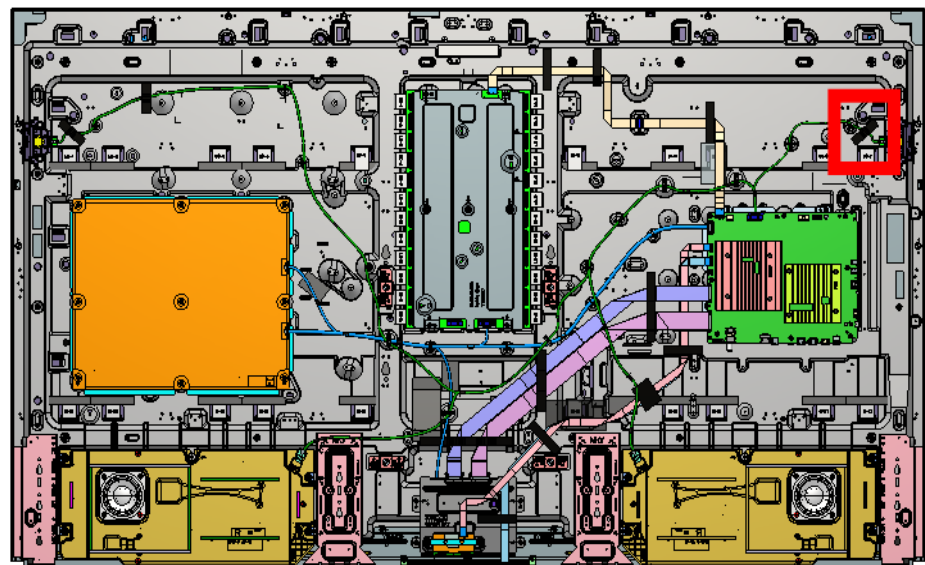
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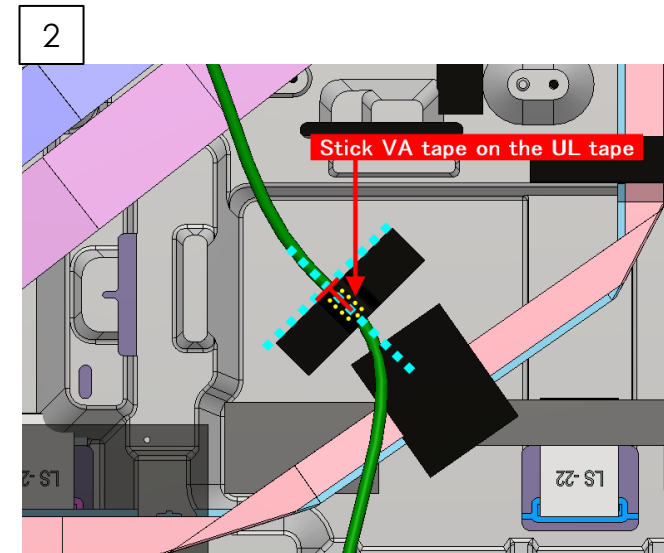
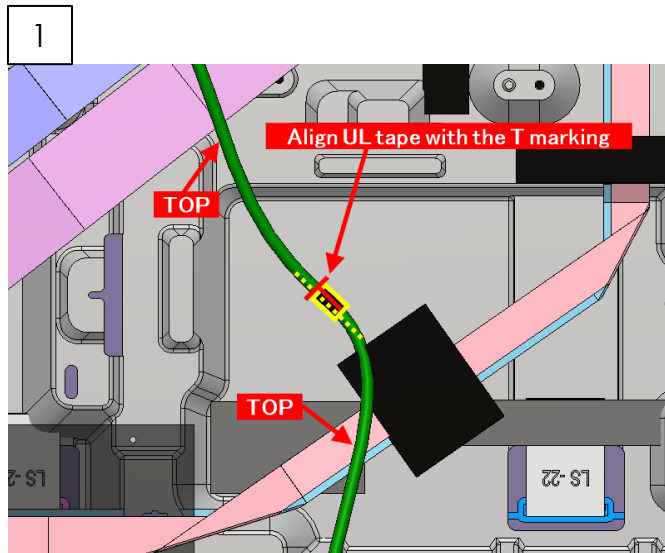
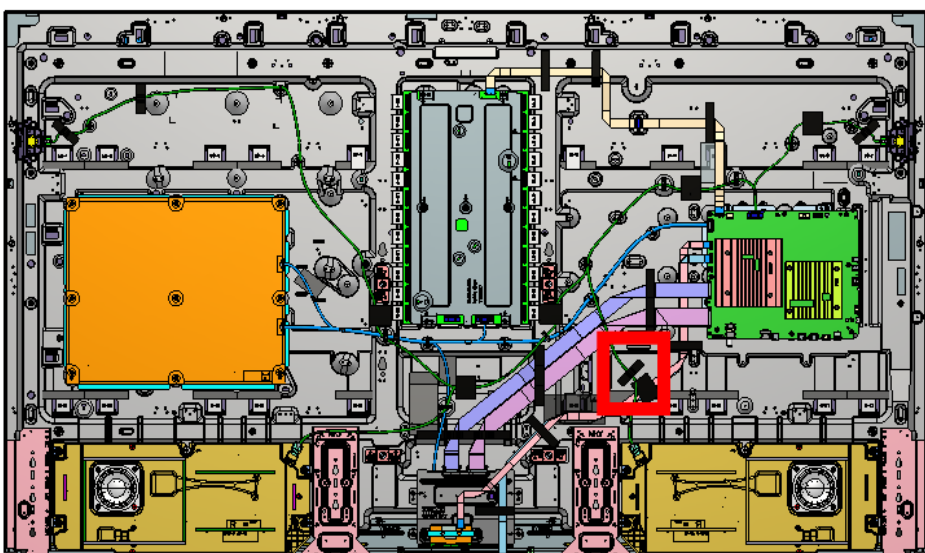
SECTION 2: XR-75X9*

2-3. WIRE DRESSING

TAPE



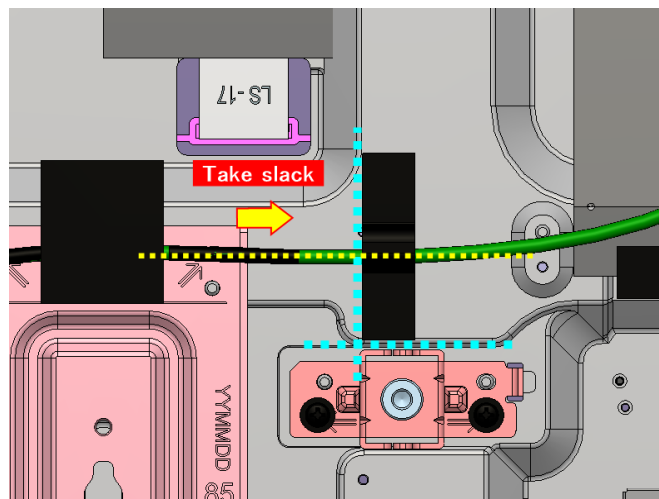
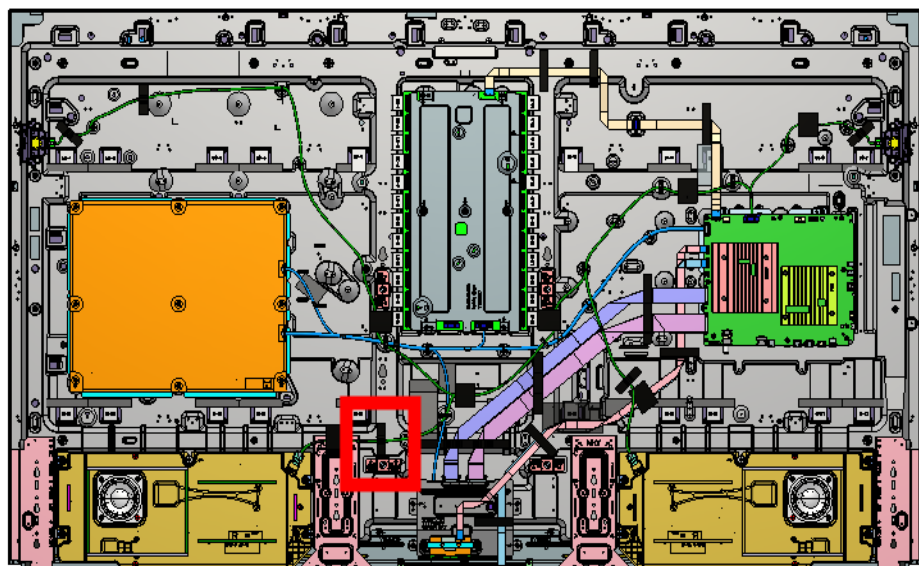
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SECTION 2: XR-75X9*

2-3. WIRE DRESSING

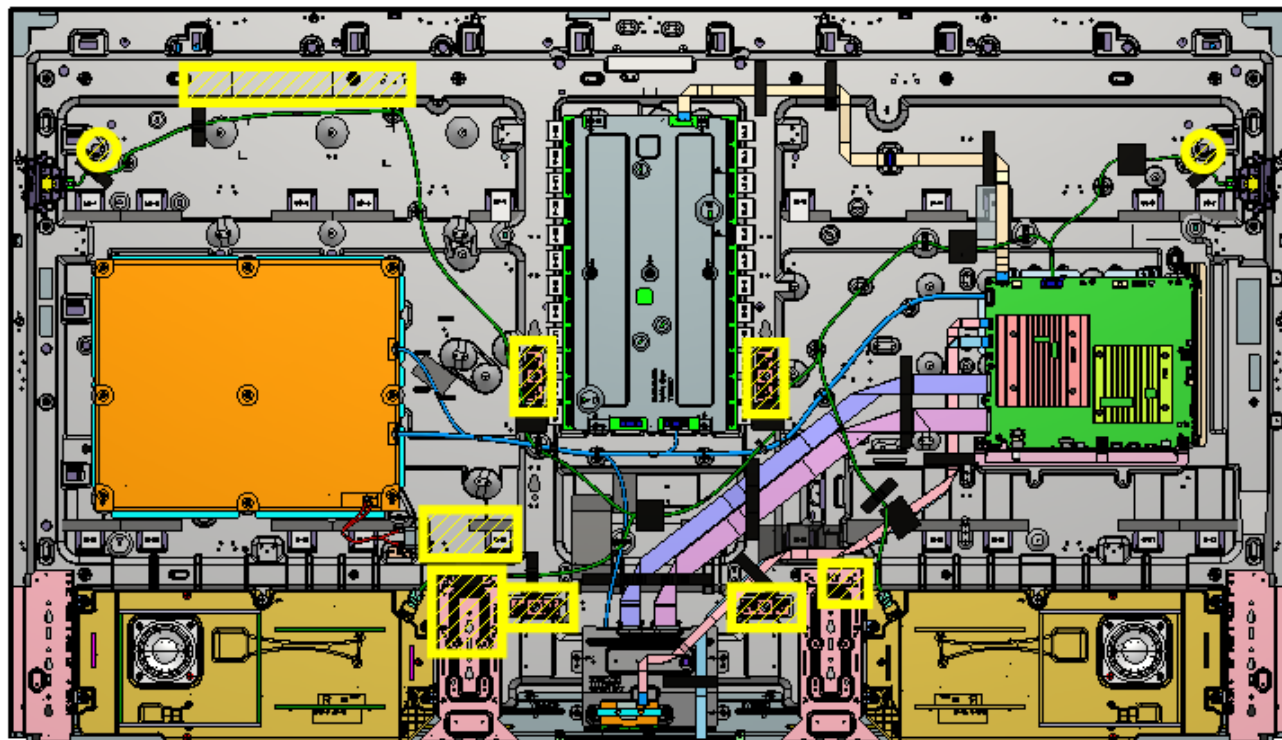
TAPE



SECTION 2: XR-75X9*

2-3. WIRE DRESSING



INFORMATION



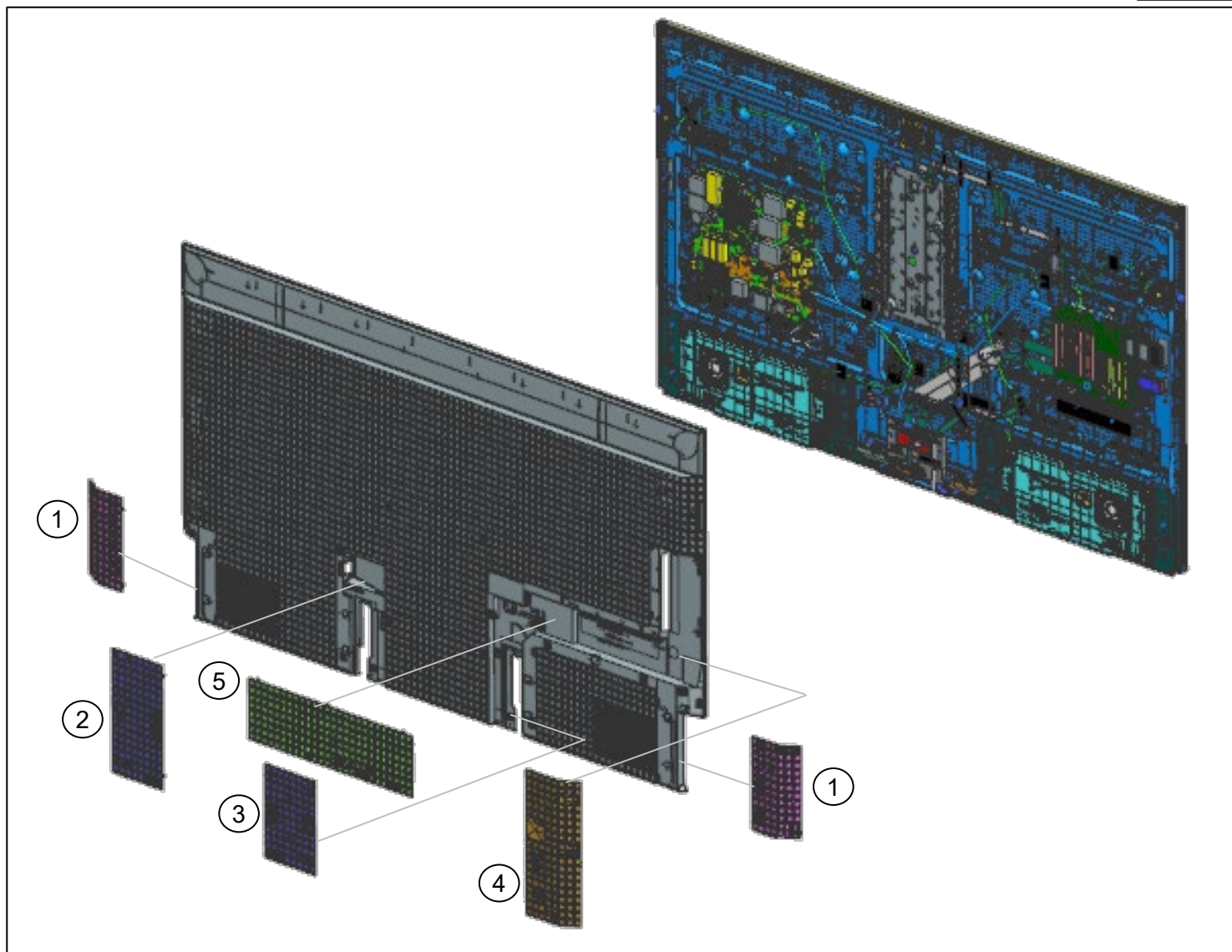
Caution : Ensure harness is away from inhibit area

SECTION 2: XR-75X9*

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



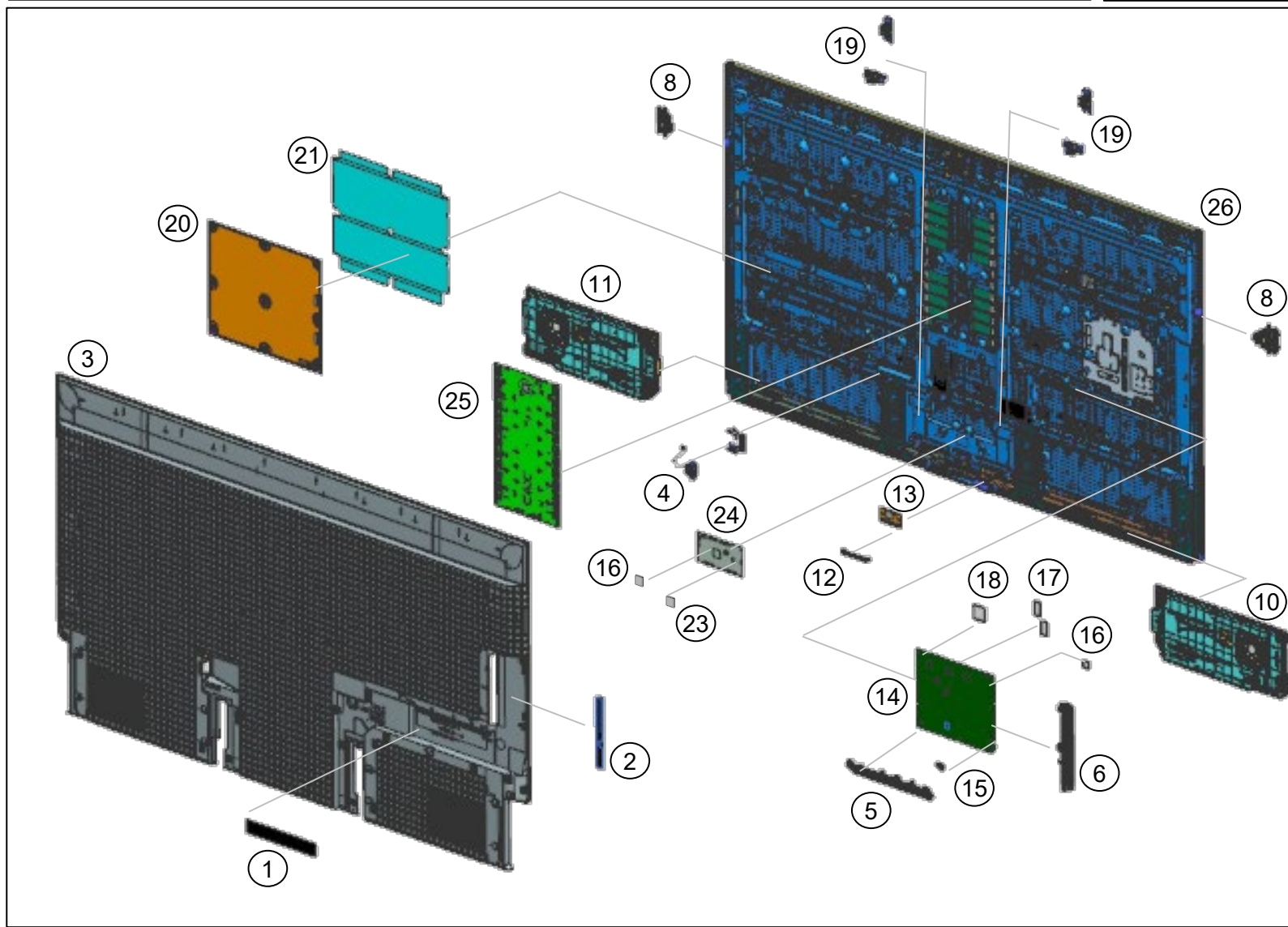
| REF. NO | PART NO. | DESCRIPTION | REMARKS |
|---------|--------------|---------------------------|---|
| 1 | 5-035-719-01 | STAND COVER LR (3L MKY) A | Including STAND COVER L (3L MKY) & STAND COVER R (3L MKY) |
| 2 | 5-035-721-01 | STAND COVER CR (3L MKY) A | - |
| 3 | 5-035-720-01 | STAND COVER CL (3L MKY) A | - |
| 4 | 5-035-717-01 | COVER TML V (3L MKY) A | Side Terminal Cover |
| 5 | 5-035-718-01 | COVER TML H (3L MKY) A | Under Terminal Cover |

SECTION 2: XR-75X9*

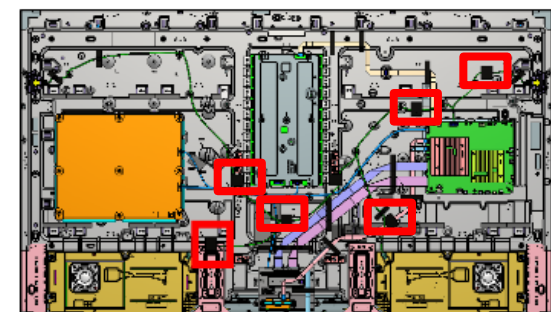
2-4. EXPLODED VIEW AND PART LIST

- 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

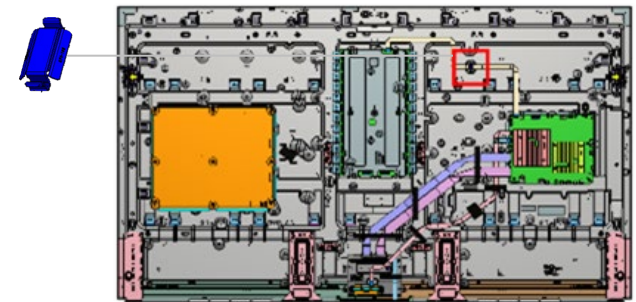
- ⚡ (*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.
- ⚡ Picture provided in this section might have slight difference from the actual sets.
- ⚡ The reference number beside the part indicates the disassembly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



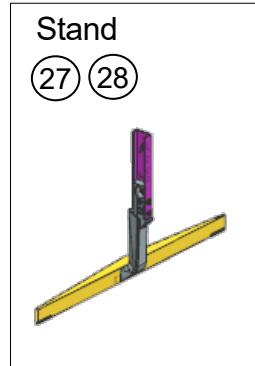
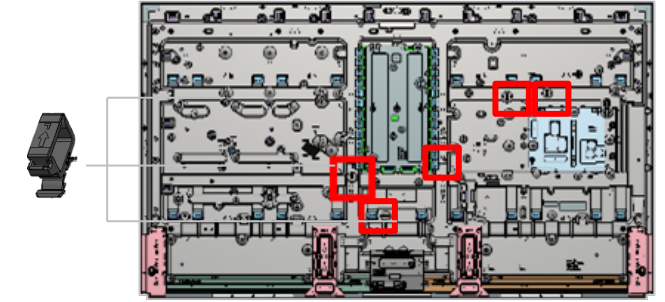
⑦ 4-531-003-01, CUSHION 3525A



⑨ 4-745-335-01, FLAT CLAMP(FFC)










②② 2-650-770-31, SLIDE, CLAMP



SECTION 2: XR-75X9*

2-4. EXPLODED VIEW AND PART LIST

SET PART LIST

| REF. NO | PART NO. | DESCRIPTION | XR-75X95K | XR-75X93L | XR-75X93CL | REMARKS |
|--|--------------|--------------------------------|-----------|-----------|------------|------------|
| | | | UCM | UC2 | UC2 | - |
| 1 | 5-036-141-01 | LABEL, UNDER TERMINAL (BM5S22) | • | n/a | n/a | - |
| 1 | 5-049-098-01 | LABEL, UNDER TERMINAL(BM5S,6S) | n/a | • | • | - |
| 2 | 5-036-145-01 | LABEL, SIDE TERMINAL (BM5S22) | • | n/a | n/a | - |
| 2 | 5-049-096-01 | LABEL, SIDE TERMINAL(BM5S,6S) | n/a | • | • | - |
|  3 | 5-033-681-01 | REAR COVER (3L MKY) A | • | • | • | - |
|  4 | 1-843-998-31 | AC INLET | • | • | • | Compatible |
|  4 | 1-002-004-12 | C18 AC INLET | • | • | • | |
| 5 | 4-724-146-14 | BRACKET, UNDER (BM2A) | • | • | • | - |
| 6 | 5-036-017-22 | BRACKET, SIDE(SGT) | • | • | • | - |
| 7 | 4-531-003-01 | CUSHION 3525A | • | • | • | - |
| 8 | 1-013-275-11 | LOUDSPEAKER, FY22 TW16-19MM | • | • | • | - |
| 9 | 4-745-335-01 | FLAT CLAMP(FFC) | • | • | • | - |
| 10 | 1-013-634-11 | SP-BOX ASSY, FY22 D33-SLIT(L) | • | • | • | - |
| 11 | 1-013-634-21 | SP-BOX ASSY, FY22 D33-SLIT(R) | • | • | • | - |
| 12 | 5-009-258-22 | BRACKET, WIFI(BNN) | • | • | • | - |
|  13 | 1-005-419-32 | WLAN/BT MODULE(11AC)FXC | • | • | • | Compatible |
|  13 | 1-005-419-14 | WLAN/BT MODULE(11AC) | • | • | • | |
|  14 | A-5044-976-A | COMPL SVC BM5S22B_FM_UCMX | • | n/a | n/a | - |
|  14 | A-5056-077-A | COMPL SVC BM5S22B_FM2_UCMX | n/a | • | • | - |
| 15 | 5-023-281-02 | KEY,TOP(SGT) | • | • | • | - |

Notes :

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





7 CUSHION 3525A

21 SHT, INSULATION (3L MKY)

SECTION 2: XR-75X9*

2-4. EXPLODED VIEW AND PART LIST

SET PART LIST

| REF. NO | PART NO. | DESCRIPTION | XR-75X95K | XR-75X93L | XR-75X93CL | REMARKS |
|--|---------------|------------------------------|-----------|-----------|------------|------------|
| | | | UCM | UC2 | UC2 | - |
| 16 | 4-699-975-02 | SHEET, THERMAL(5567H) | • | • | • | - |
| 17 | 5-023-557-01 | SHEET THERMAL(BM5S21 DDR) | • | • | • | - |
| 18 | 5-011-960-01 | SHEET, THERMAL(LMN TCON) | • | • | • | - |
| 19 | *5-023-339-01 | BRACKET, VESA(GMN) | • | • | • | - |
|  20 | 1-013-591-12 | G28 - STATIC CONVERTER(TV) | • | • | • | - |
|  21 | 5-032-571-01 | SHT, INSULATION (3L MKY) | • | • | • | - |
| 22 | 2-650-770-31 | SLIDE, CLAMP | • | • | • | - |
| 23 | 5-026-767-01 | SHEET, THERMAL T-CON(3L GMN) | • | • | • | - |
| 24 | 1-013-502-11 | MOUNTED PWB E-T-CON (75) | • | • | • | - |
| 25 | A-5041-952-A | 22LD600A1 COMPL | • | • | • | - |
|  26 | A-5042-994-A | P-MOD(YDCS075MES02) | • | n/a | n/a | Compatible |
|  26 | A-5048-992-A | P-MOD(YDCS075MES02) | • | n/a | n/a | |
| 27 | 5-034-694-01 | STAND L (3L MKY) A | • | • | • | - |
| 28 | 5-034-695-01 | STAND R (3L MKY) A | • | • | • | - |

Notes :

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

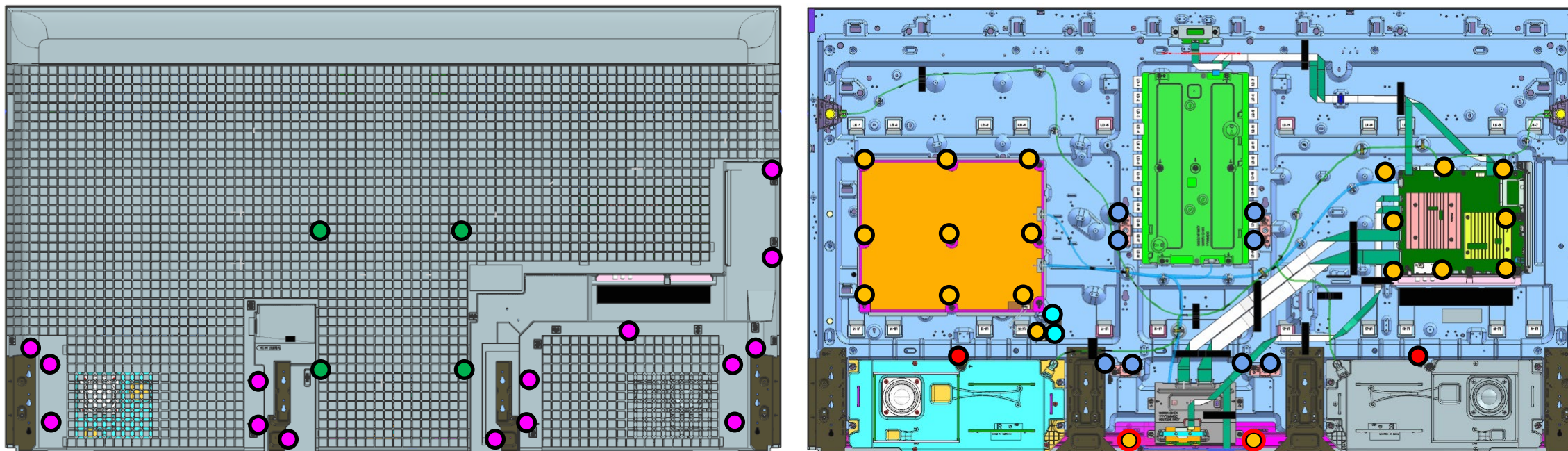
7 CUSHION 3525A

21 SHT, INSULATION (3L MKY)

SECTION 2: XR-75X9*

2-4. EXPLODED VIEW AND PART LIST

SCREW

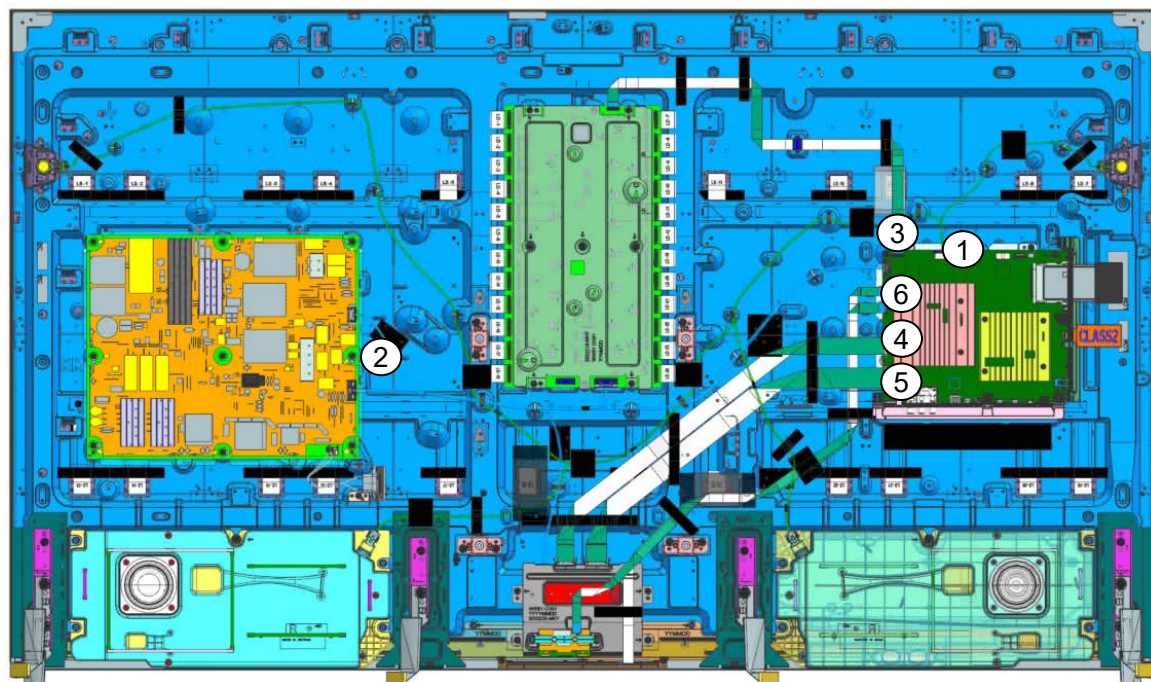


| REMARKS | P/N | DESCRIPTION | QTY | TORQUE (N.m) | REMARKS |
|---------|--------------|-------------------------|-----|--------------|------------|
| | 4-268-126-02 | SCREW, ORNAMENTAL M6X12 | 4 | 1.2 ± 0.1 | - |
| | 4-579-926-01 | SCREW M3X3.0 STEP | 15 | 0.65 ± 0.05 | - |
| | 4-256-393-12 | SCREW, +PSW M3X6 W12 | 2 | 0.4 ± 0.05 | - |
| | 2-580-600-01 | SCREW, +PSW M4X8 | 8 | 0.65 ± 0.05 | - |
| | 2-580-592-01 | SCREW, +PSW M3X8 | 2 | 0.4 ± 0.05 | - |
| | 4-472-518-11 | SCREW, +PSW M3x6 | 20 | 0.4 ± 0.05 | - |
| | 4-472-518-11 | SCREW, +PSW M3x6 | 18 | 0.4 ± 0.05 | 93L / 93CL |
| | 7-682-948-09 | SCREW +PSW 3X8 | 2 | 0.4 ± 0.05 | 93L / 93CL |

SECTION 2: XR-75X9*


2-4. EXPLODED VIEW AND PART LIST

CONNECTOR



| REF. NO | PART NO. | DESCRIPTION | REMARKS |
|---------|--------------|-----------------------------|--|
| 1 | 1-014-903-11 | CONNECTOR ASSY 12P (SP) | CN6603(B)-SP(1) |
| 2 | 1-014-902-11 | CONNECTOR ASSY 28P | CN1700(B)-CN6401(G)-CN6601(G)-CN1000(LD)-J105(TCON)(1) |
| 3 | 1-014-839-11 | FLEXIBLE FLAT CABLE 30P | CN6200(B)-CN1000(LD)(1) |
| 4 | 1-014-840-11 | FLEXIBLE FLAT CABLE 41P | CN6801(B)-CN2(TCON)(1) |
| 5 | 1-014-841-11 | FLEXIBLE FLAT CABLE 51P | CN6800(B)-CN3(TCON)(1) |
| 6 | 1-014-837-11 | FLEXIBLE FLAT CABLE 20P/25P | CN103(H)-CN1200(B)-CN3803(B)-BT(1) |

SECTION 2: XR-75X9***2-4. EXPLODED VIEW AND PART LIST****OTHER PARTS**

| PART NO. | DESCRIPTION | XR-75X95K | XR-75X93L | XR-75X93CL | REMARKS |
|--|--------------------------------|-----------|-----------|------------|-------------------------------------|
| | | UCM | UC2 | UC2 | |
| 4-535-064-62 | 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 | • | • | • | - |
|  1-836-883-13 | POWER-SUPPLY CORD | • | • | • | - |
| 1-013-691-23 | REMOTE COMMANDER (RMF-TX800U) | • | n/a | n/a | - |
| 1-016-940-21 | REMOTE COMMANDER (RMF-TX810U) | n/a | • | n/a | - |
| 1-016-949-21 | REMOTE COMMANDER (RMF-TX910U) | n/a | n/a | • | - |
| *5-038-398-11 | REFERENCE GUIDE | • | n/a | n/a | - |
| *5-049-617-11 | REFERENCE GUIDE | n/a | • | • | - |
| *5-038-399-11 | SETUP GUIDE | • | n/a | n/a | - |
| *5-049-618-11 | SETUP GUIDE | n/a | • | • | - |
| 7-600-031-97 | TAPE (3M 1350FB-1)15MMX66M BLK | • | • | • | - |

SECTION 3: XR-85X9*

3-1. DISASSEMBLY AND REMOVAL CAUTION

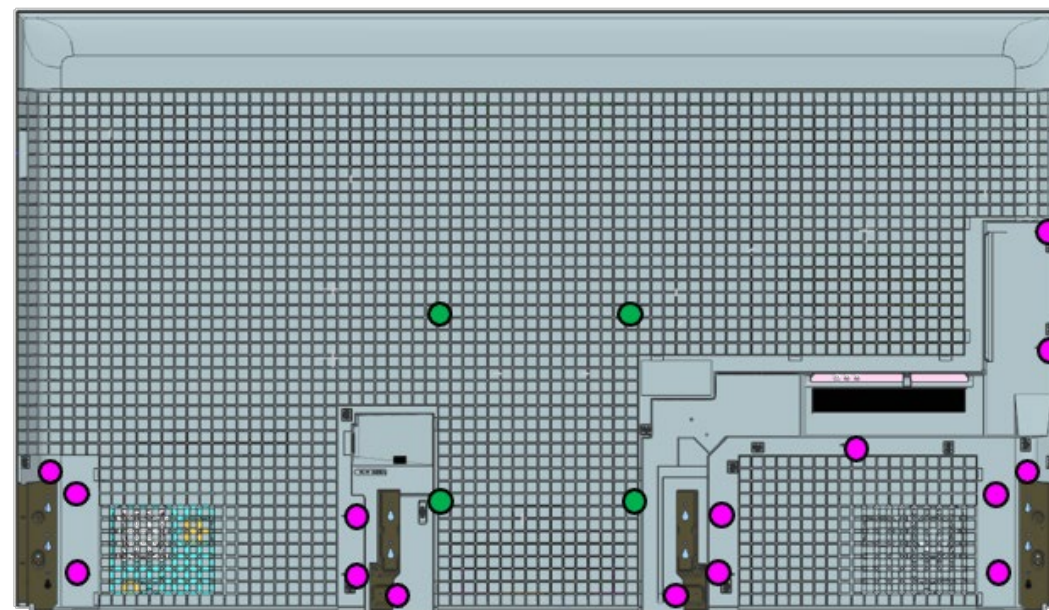
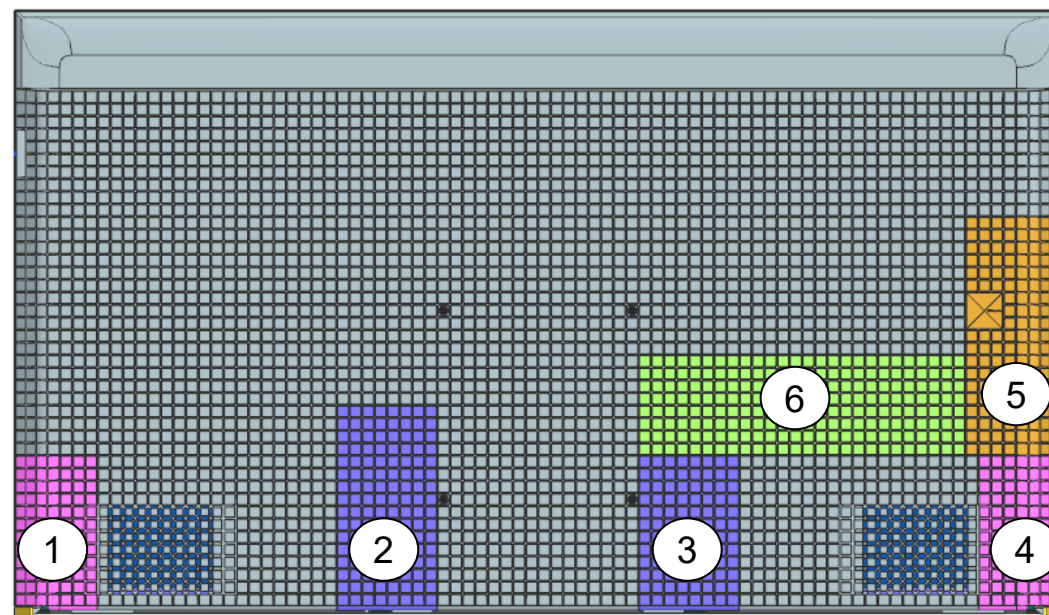
REAR COVER

1. Remove Cover (6 Covers).

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

2. (i) Remove 19 screws

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

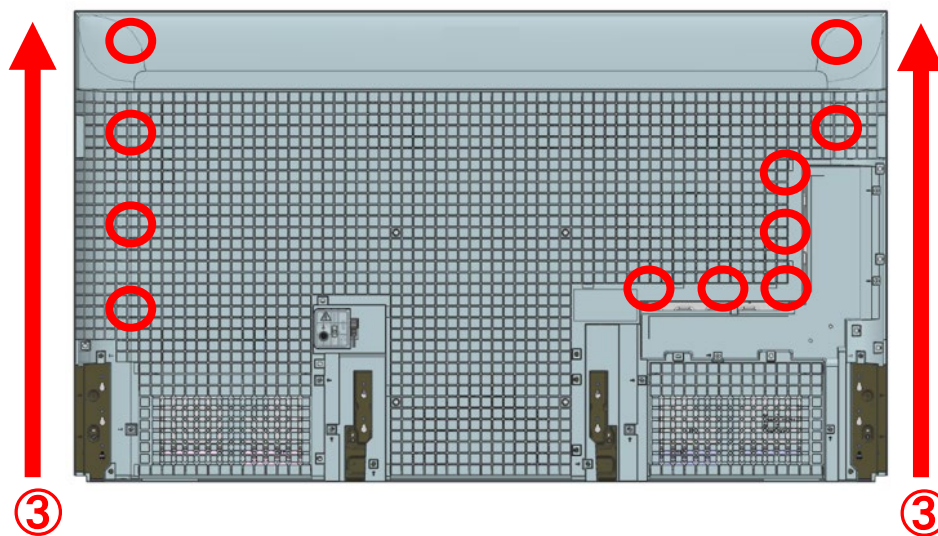


SECTION 3: XR-85X9*

3-1. DISASSEMBLY AND REMOVAL CAUTION

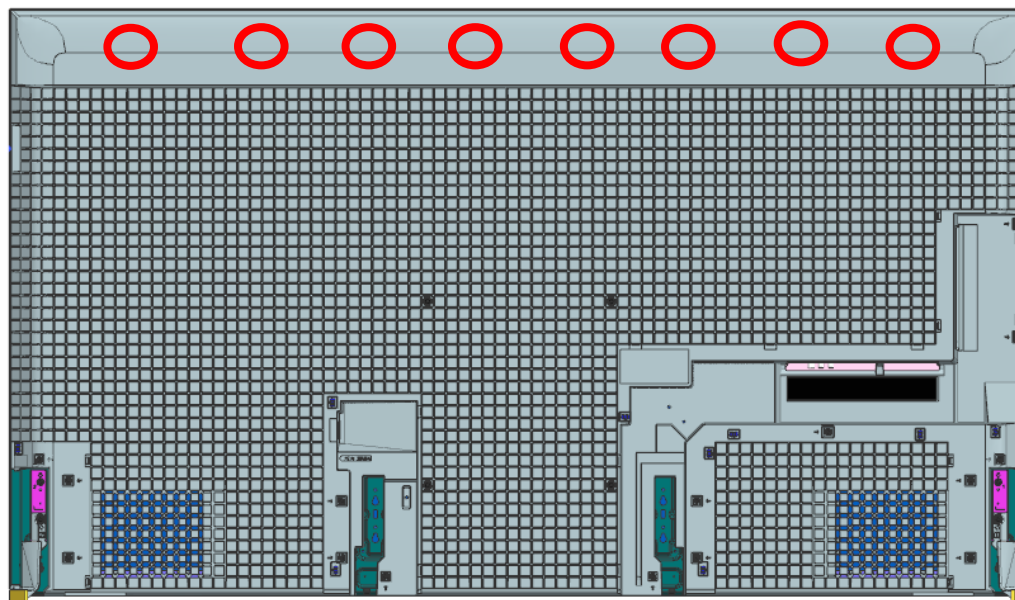
REAR COVER

3. Release Side and Bracket Hook.



Lift up Rear Cover from Bottom side

4. Release Top Hook (8 pcs).

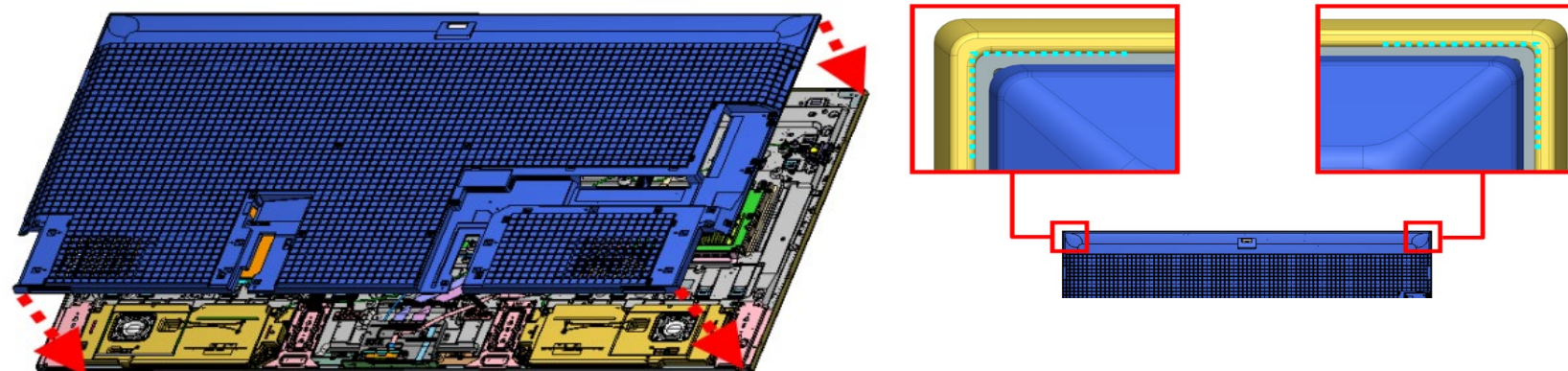


Lift up Rear Cover from Bottom side more

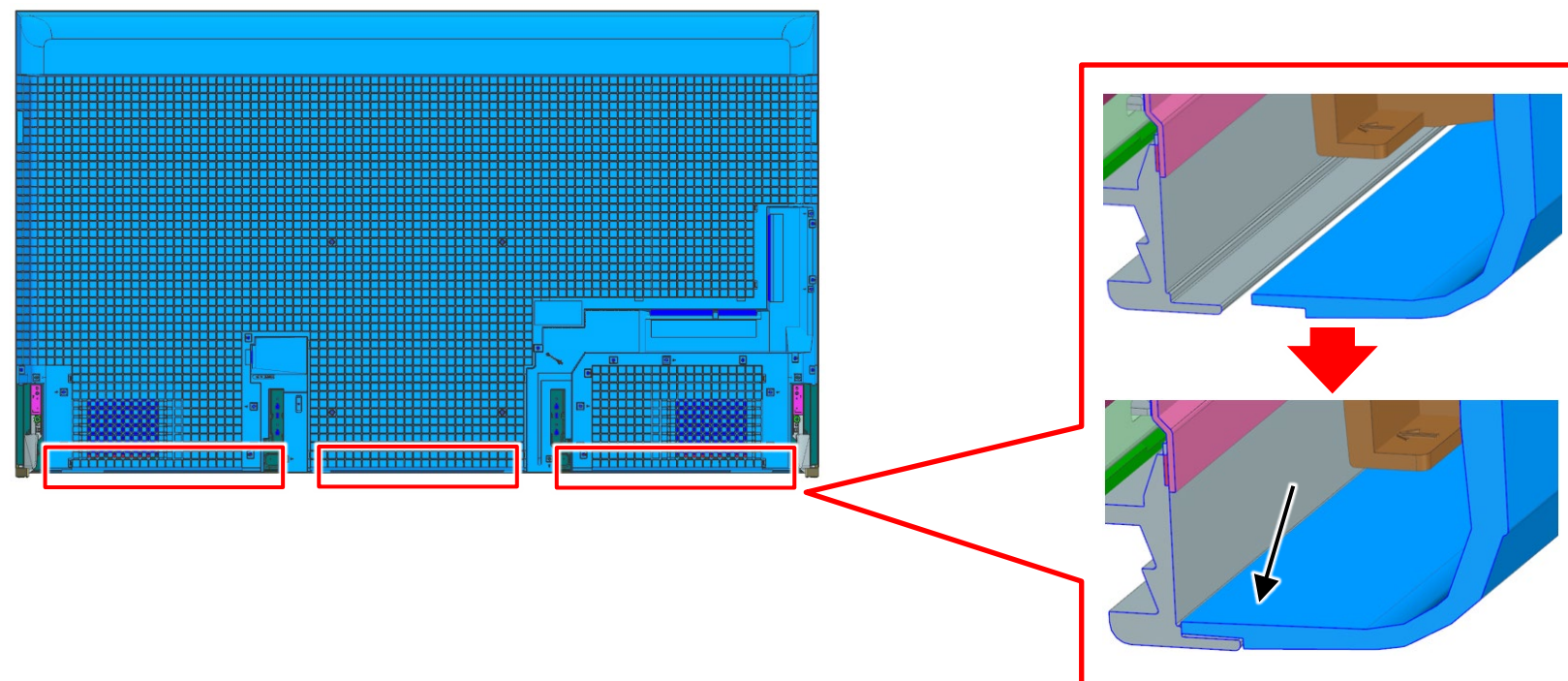
SECTION 3: XR-85X9***3-1. DISASSEMBLY AND REMOVAL CAUTION****REAR COVER**

1. Install REAR COVER.

- (i) REAR COVER aligning.
→ Don't overwrap to the BEZEL.



- (ii) Insert rib of the bottom to the BEZEL.

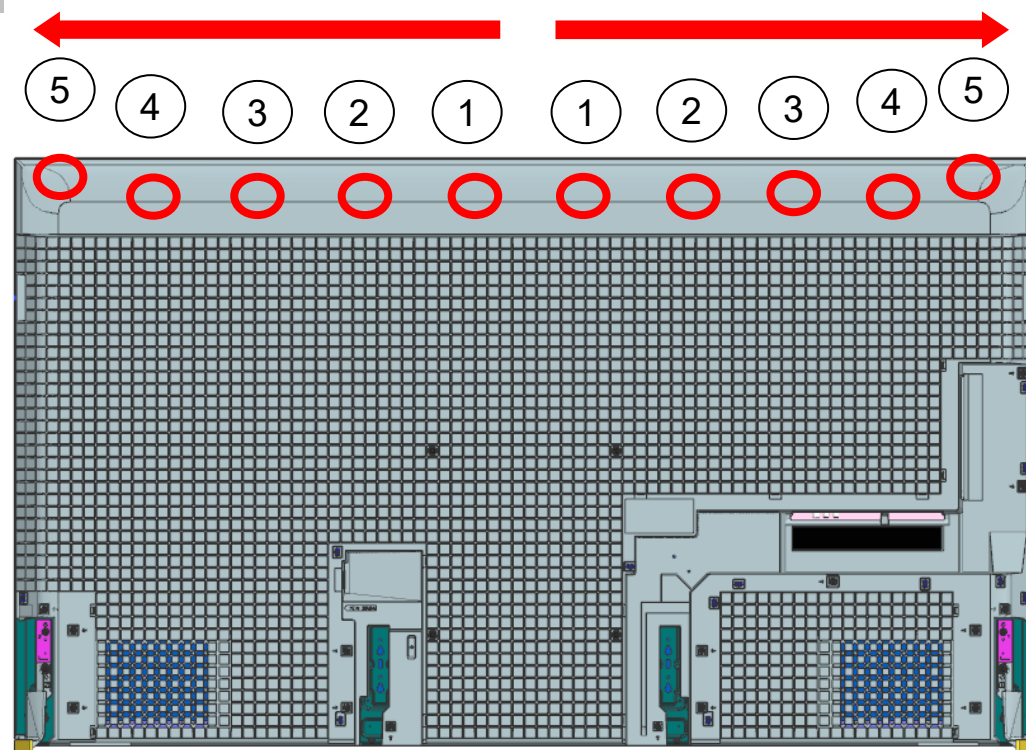


SECTION 3: XR-85X9*

3-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

2. (i) Push and Lock Top Hook (pushing order) (10 pcs).

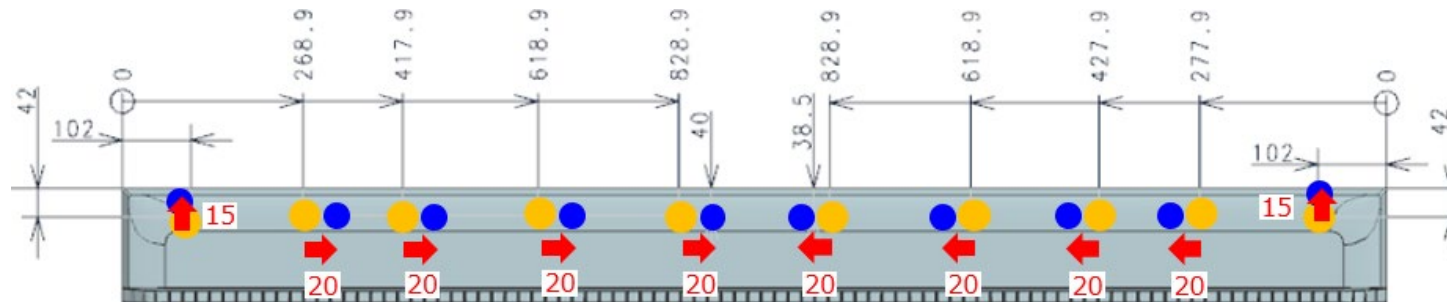


(ii) Push and Lock Top Hook (pushing position) (10 pcs).

Notice:

Please push the inside (10~20mm) of the hook because pushing the outside increases the insertion force.

- Hook position
- Push position

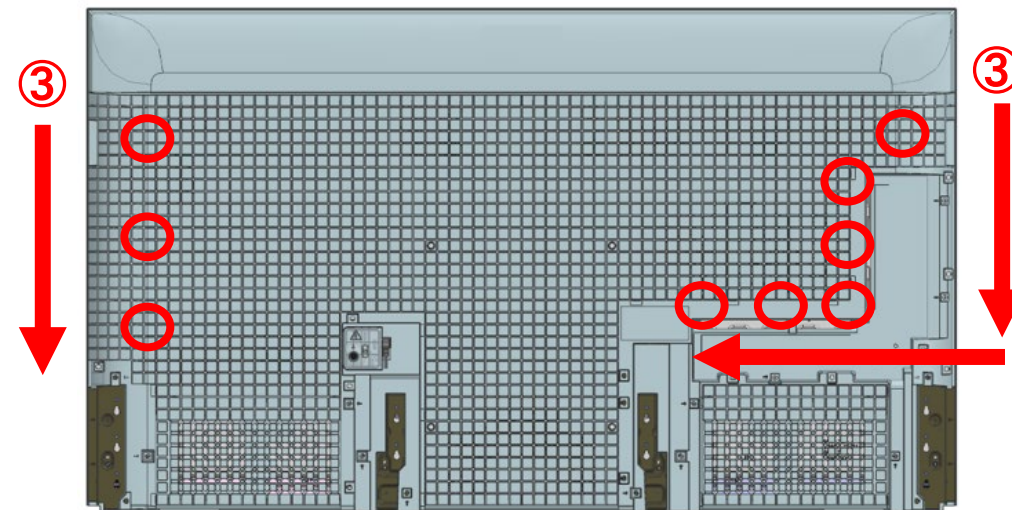


SECTION 3: XR-85X9*

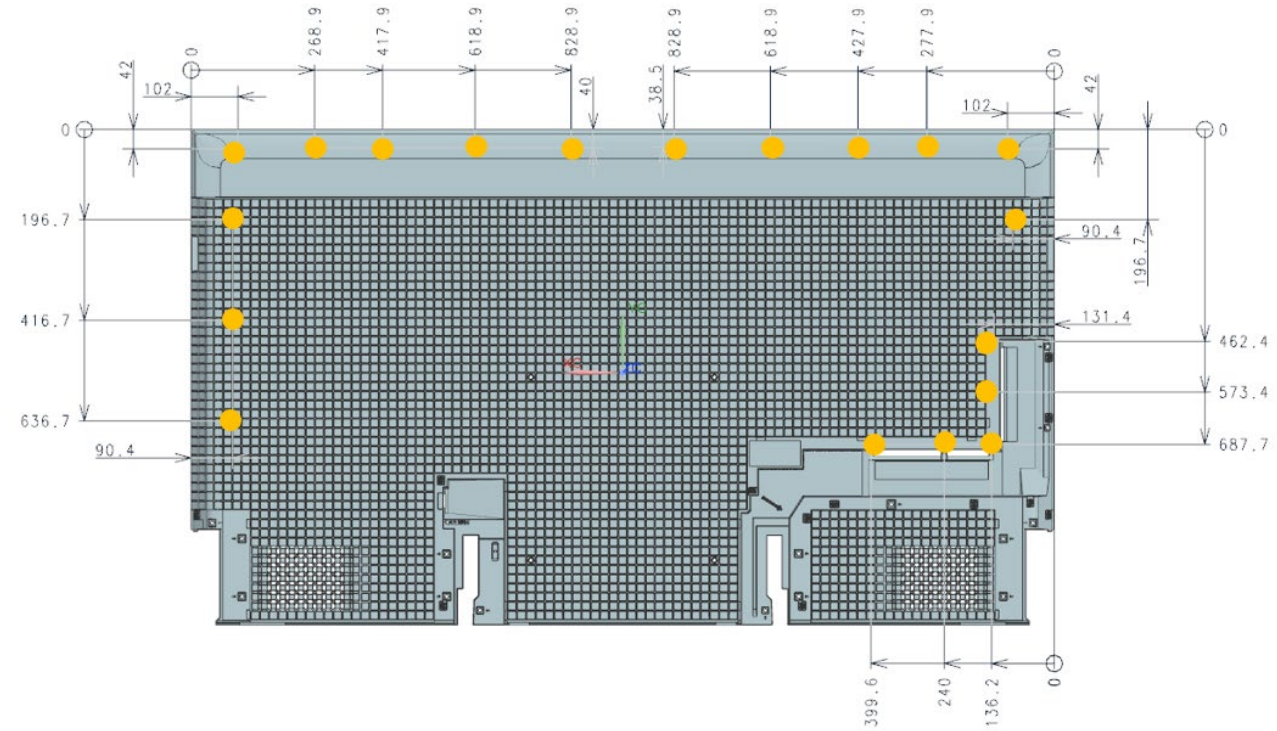
3-1. DISASSEMBLY AND REMOVAL CAUTION

REAR COVER

3. Push and Lock Side and Bracket Hook (pushing order).

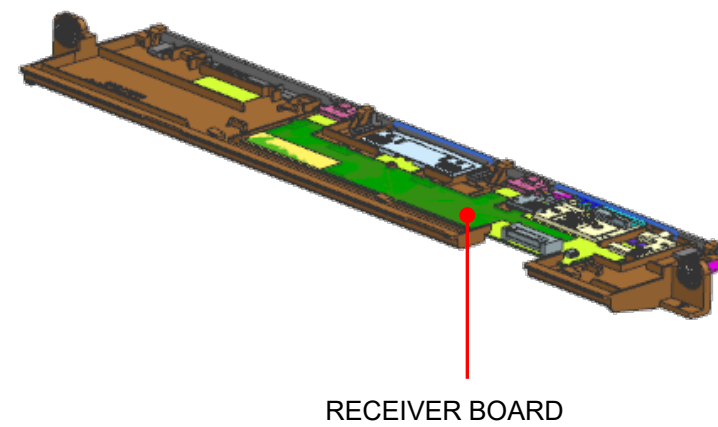
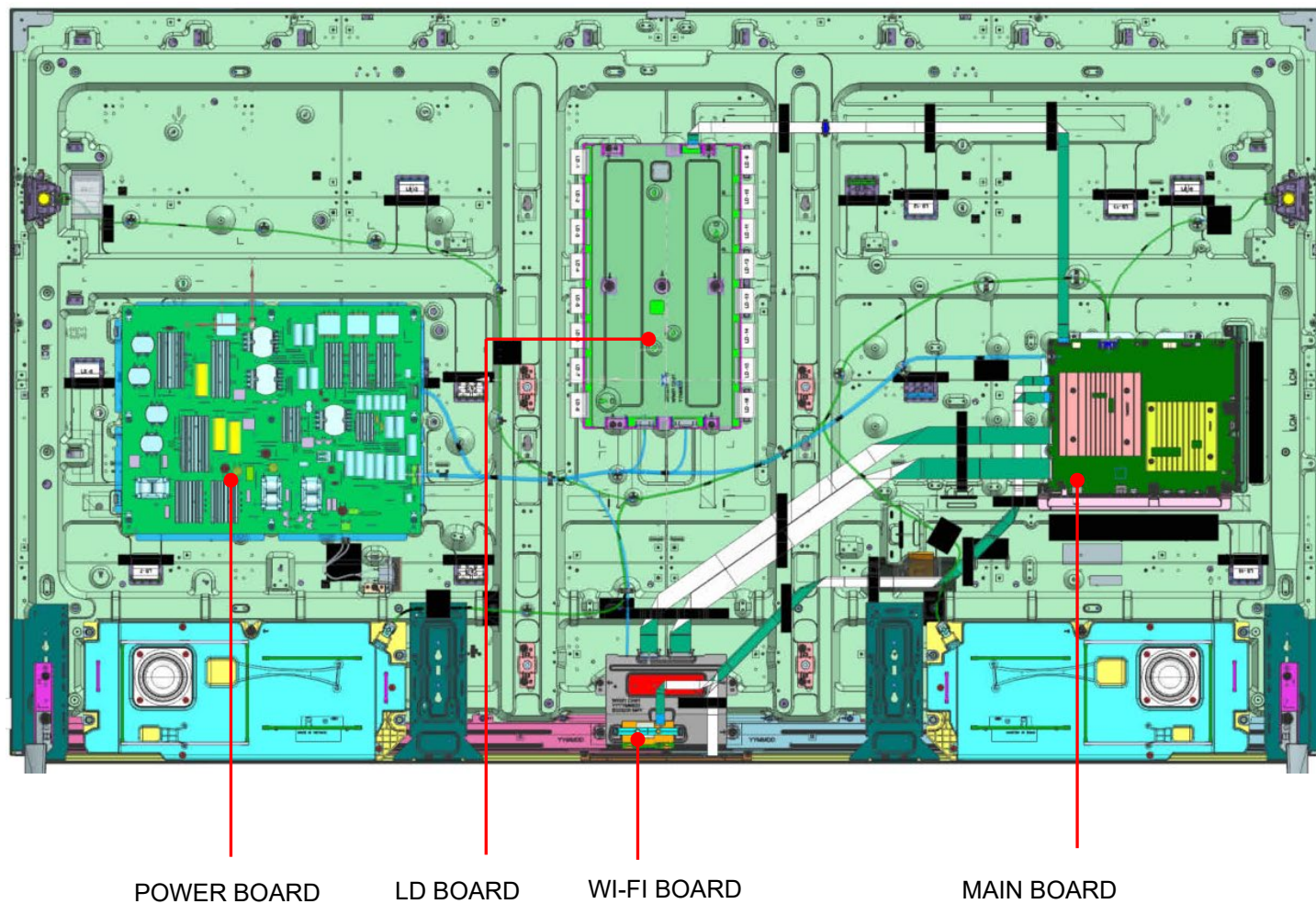


Hook Position.



SECTION 3: XR-85X9*

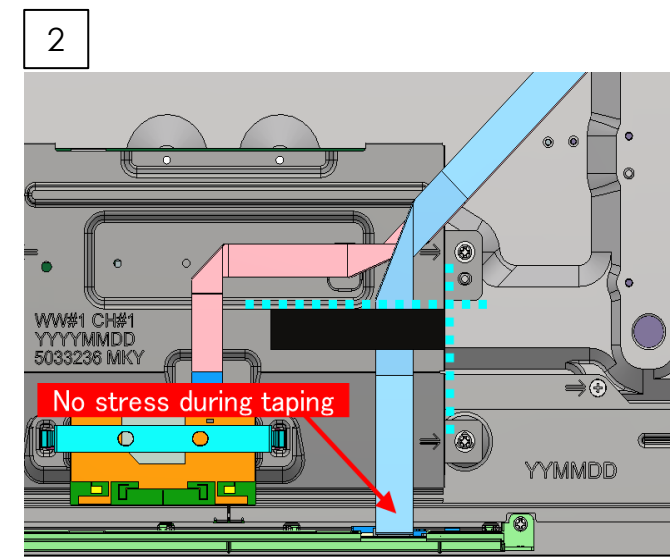
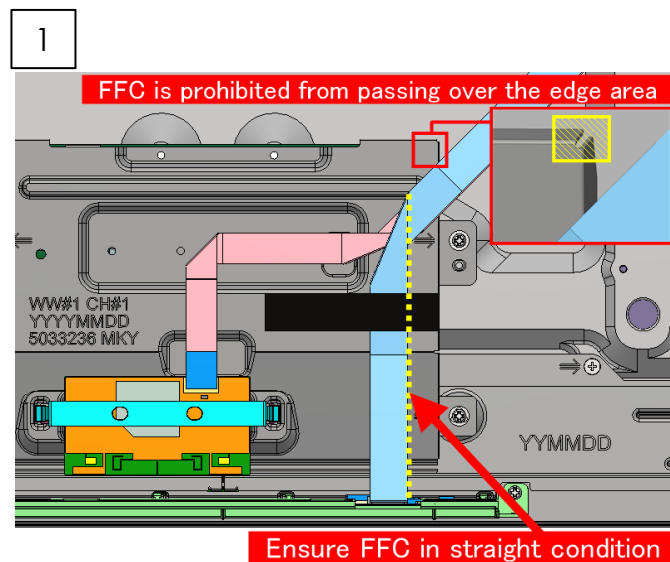
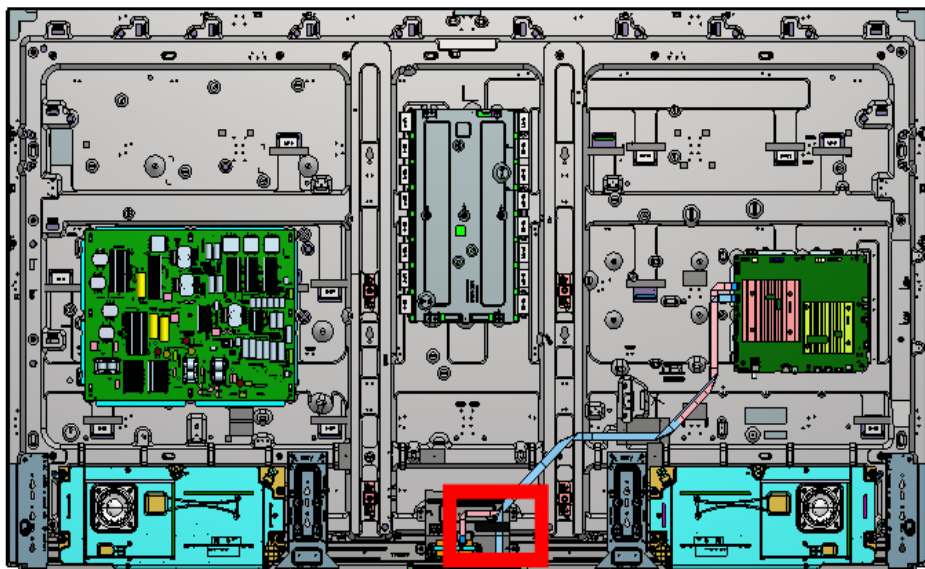
3-2. BOARD LOCATION



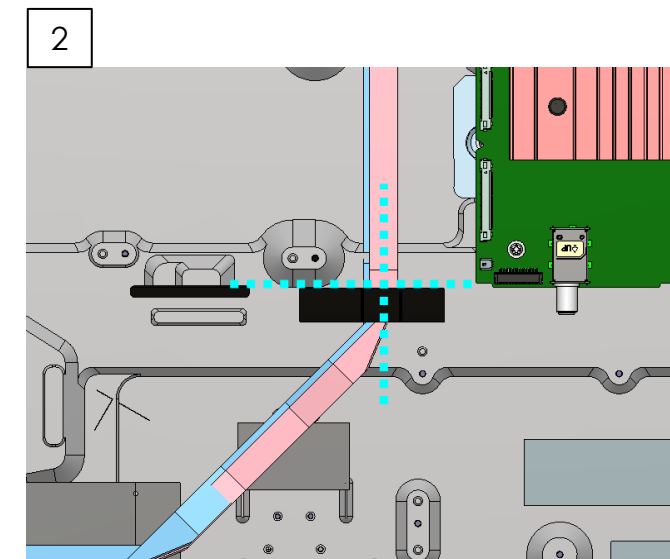
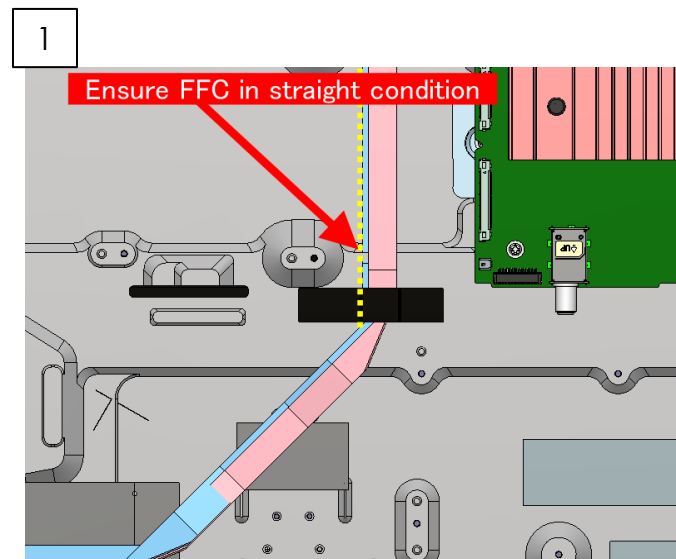
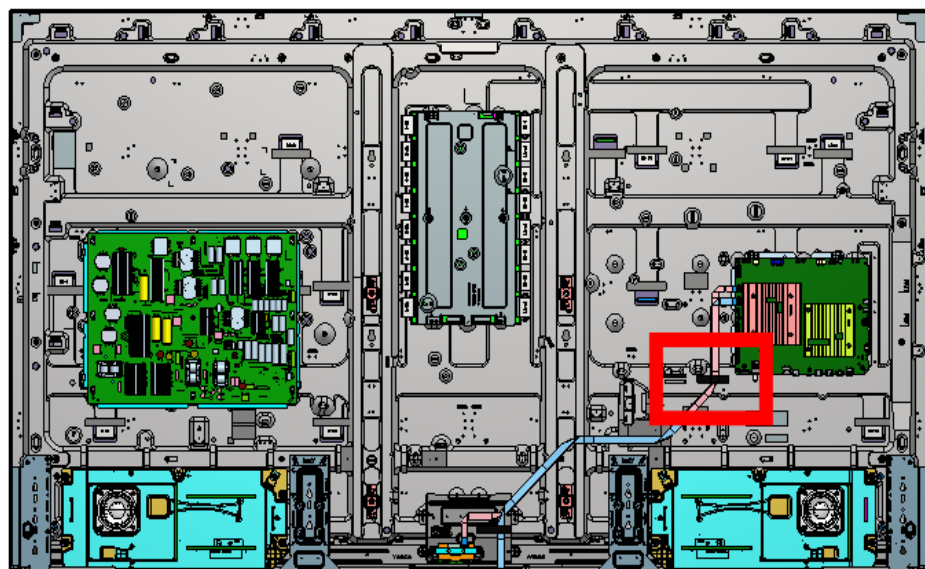
SECTION 3: XR-85X9*

3-3. WIRE DRESSING

TAPE



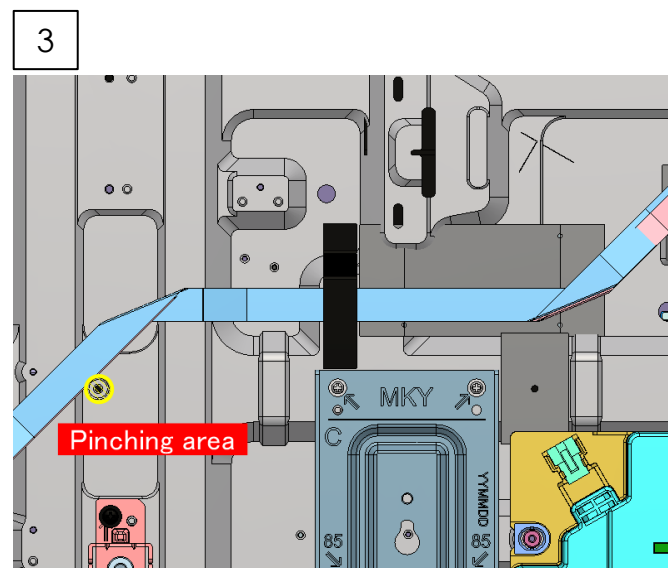
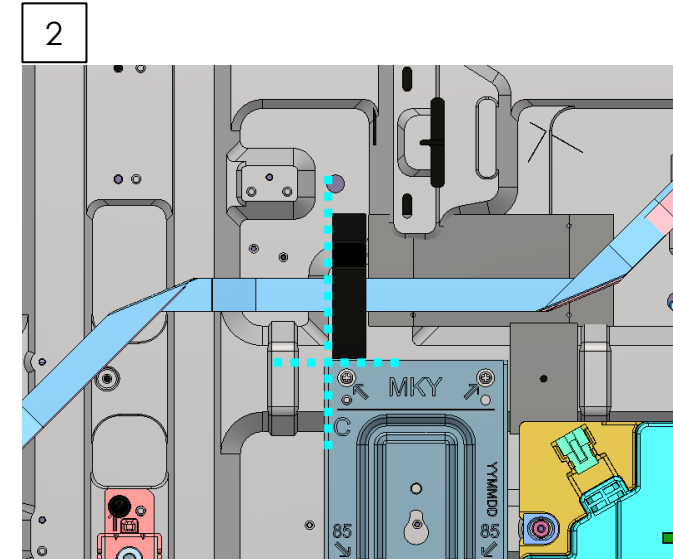
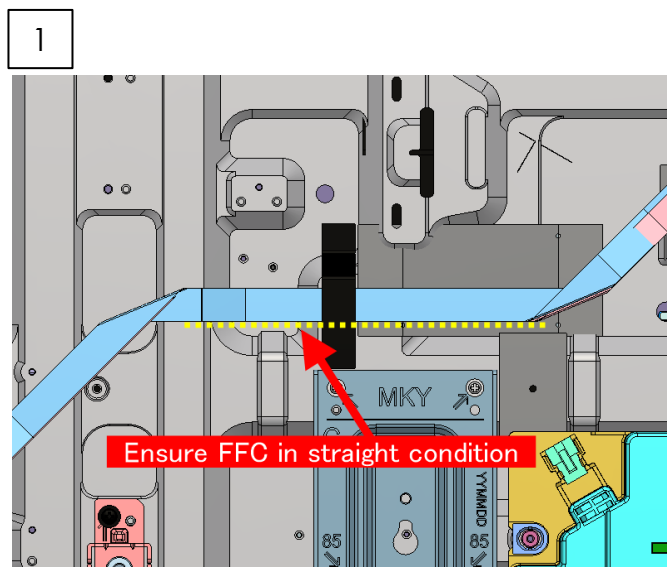
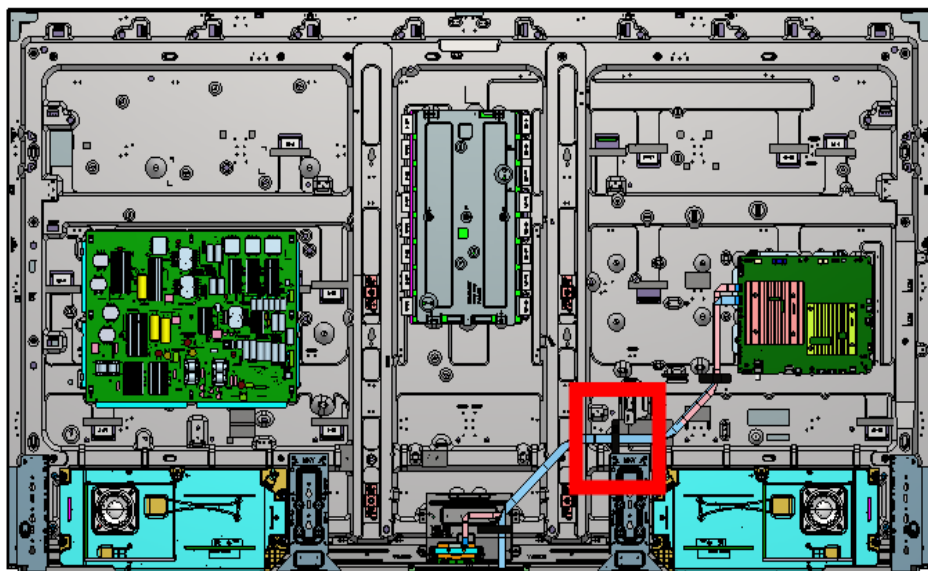
TAPE



SECTION 3: XR-85X9*

3-3. WIRE DRESSING

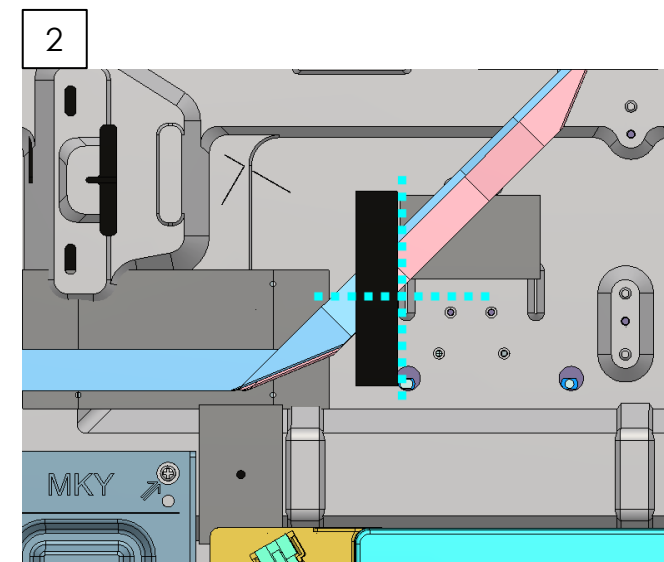
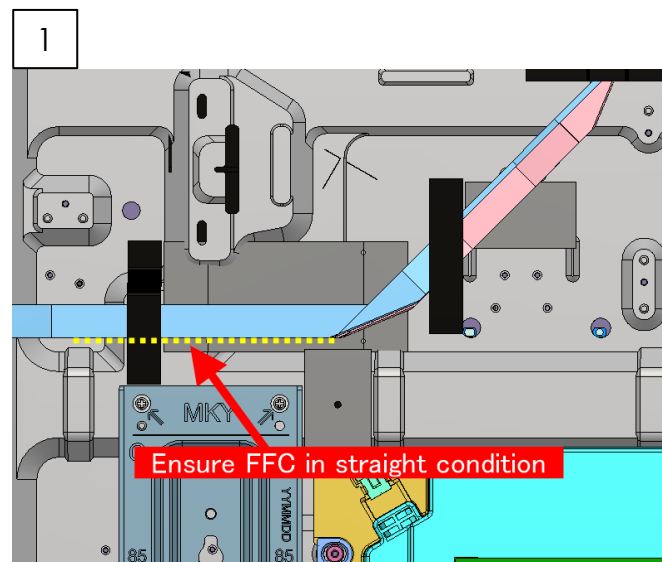
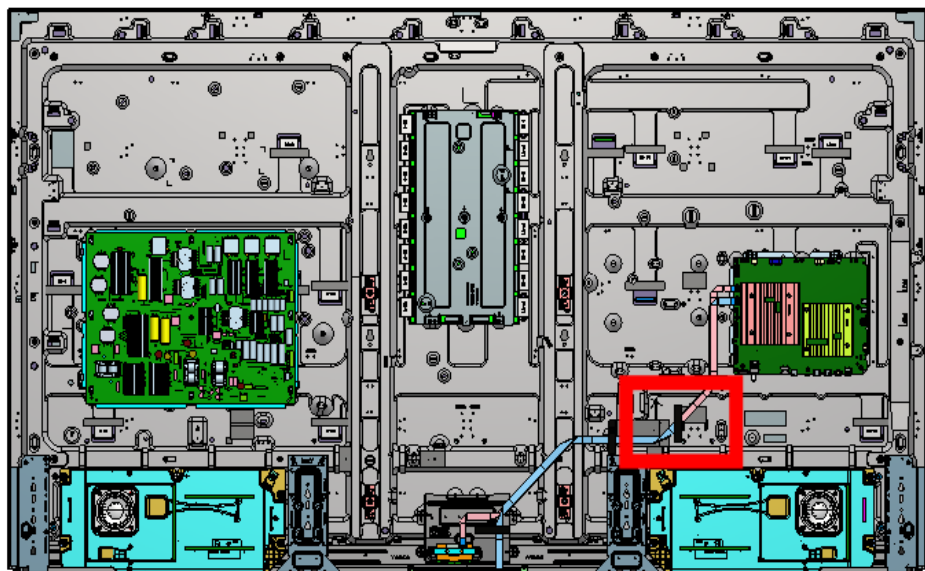
TAPE



SECTION 3: XR-85X9*

3-3. WIRE DRESSING

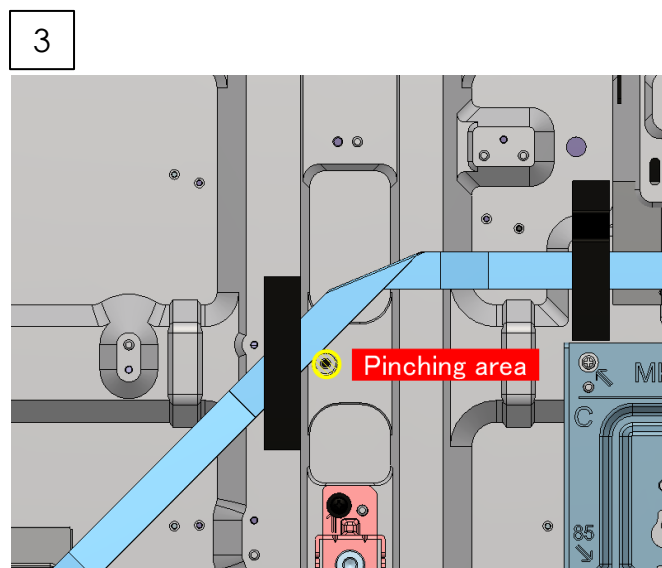
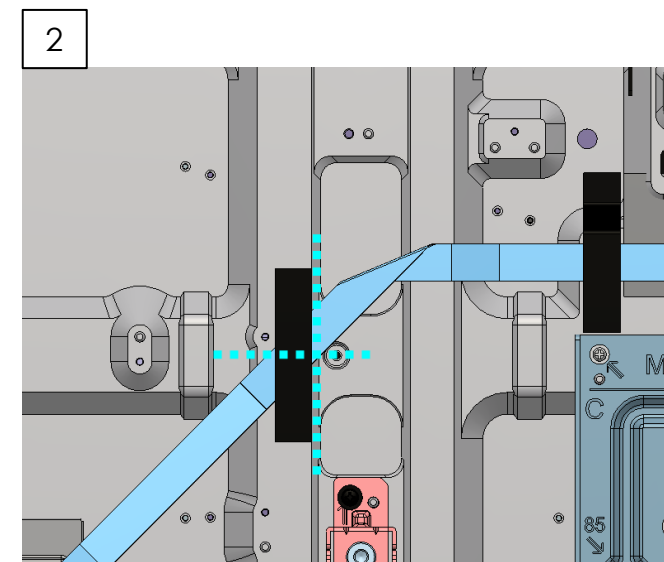
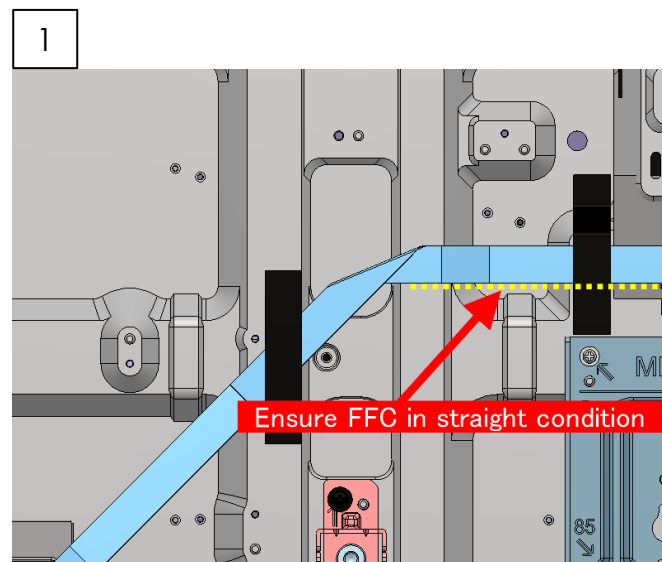
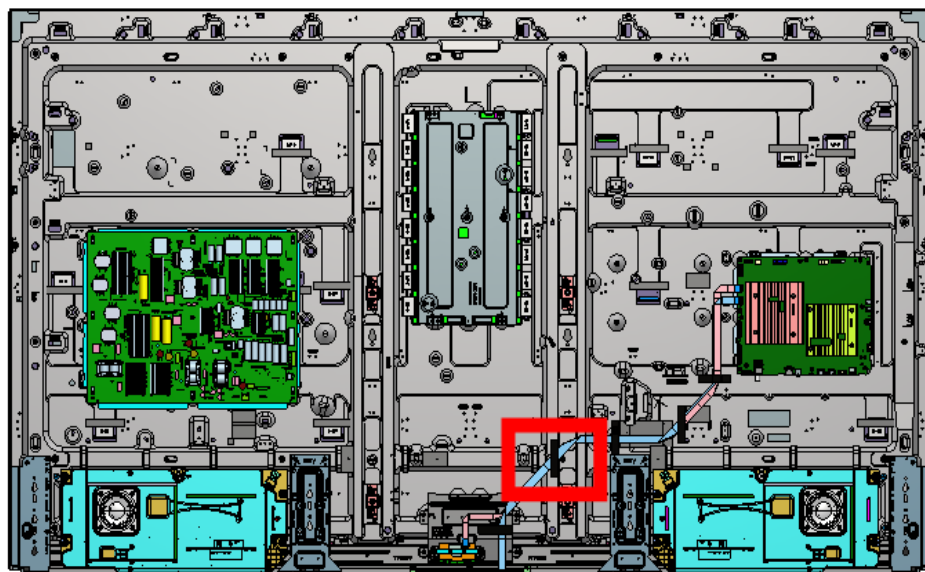
TAPE



SECTION 3: XR-85X9*

3-3. WIRE DRESSING

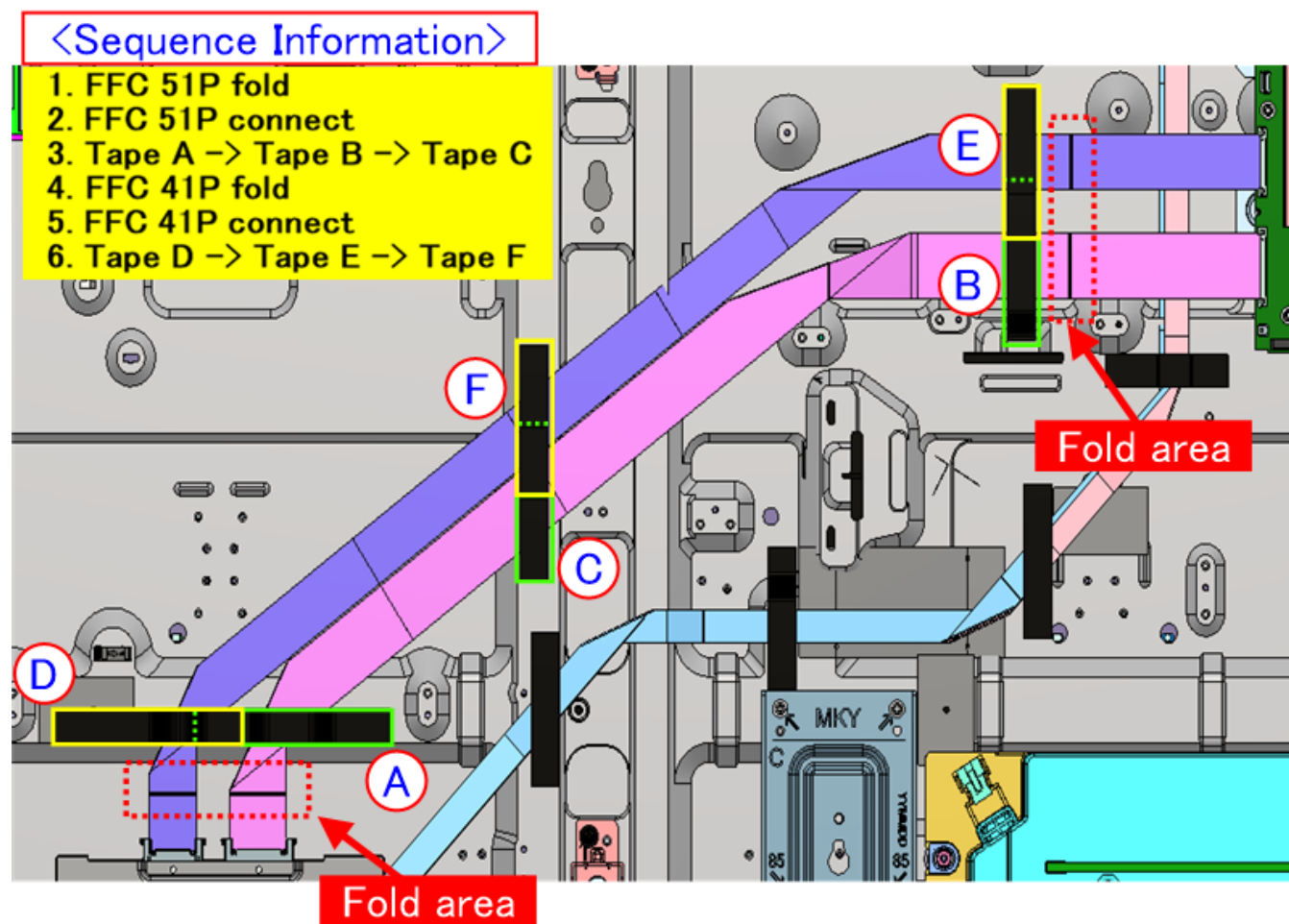
TAPE



SECTION 3: XR-85X9*

3-3. WIRE DRESSING

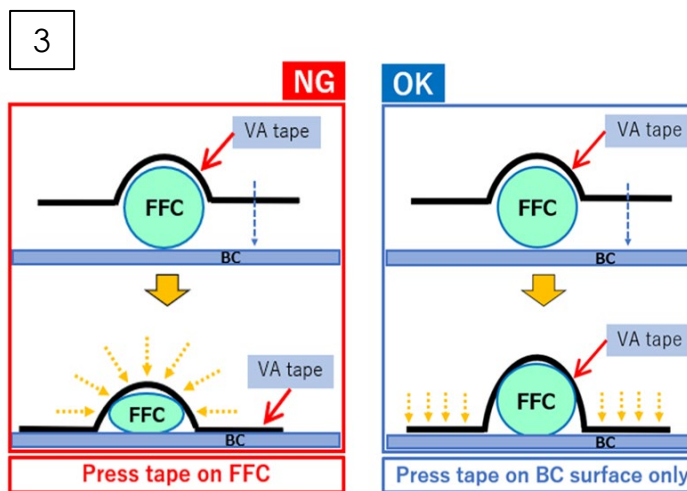
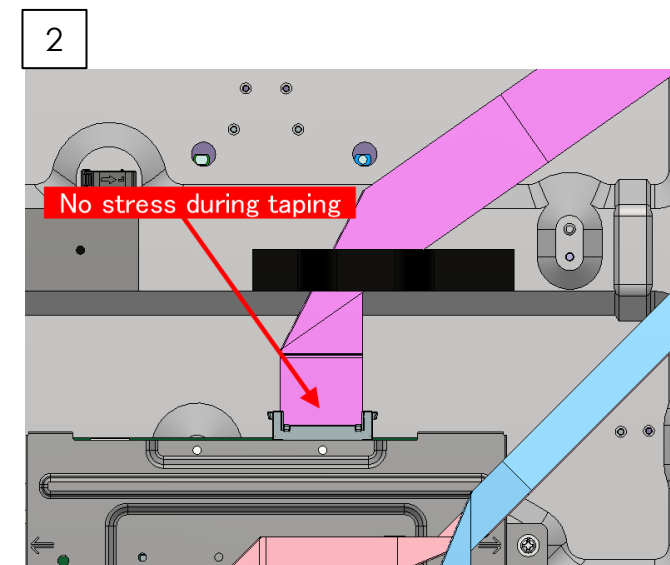
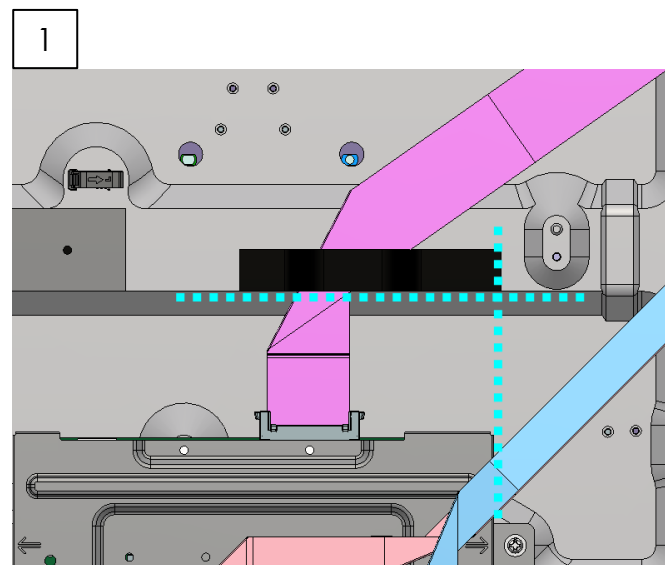
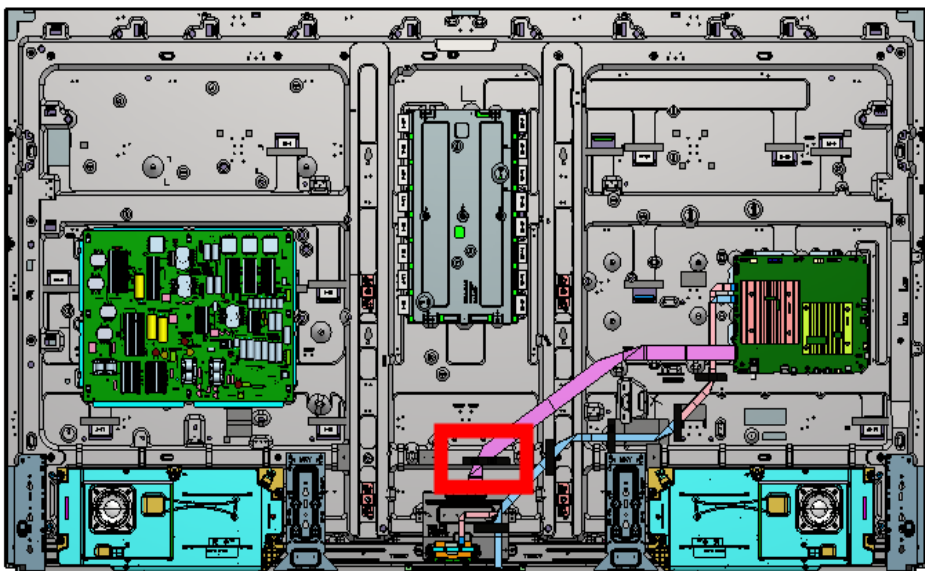
INFORMATION



SECTION 3: XR-85X9*

3-3. WIRE DRESSING

TAPE

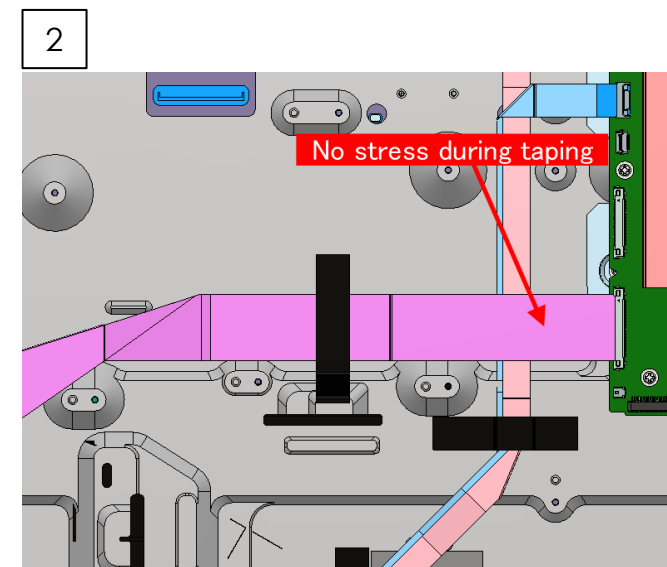
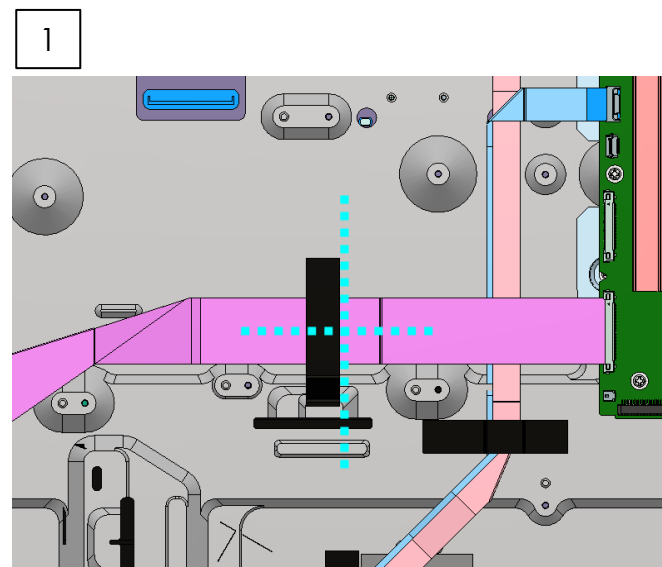
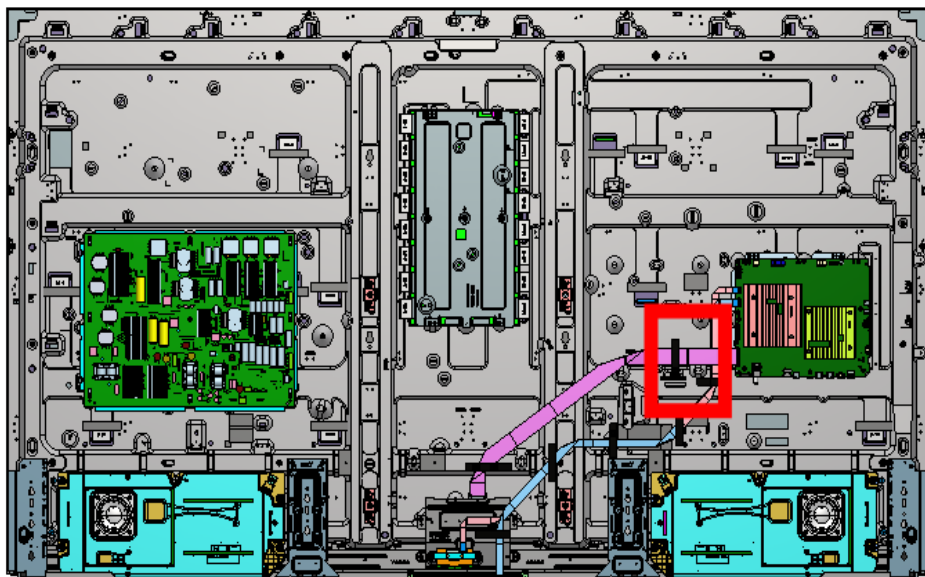


Caution : Do not press tape on FFC

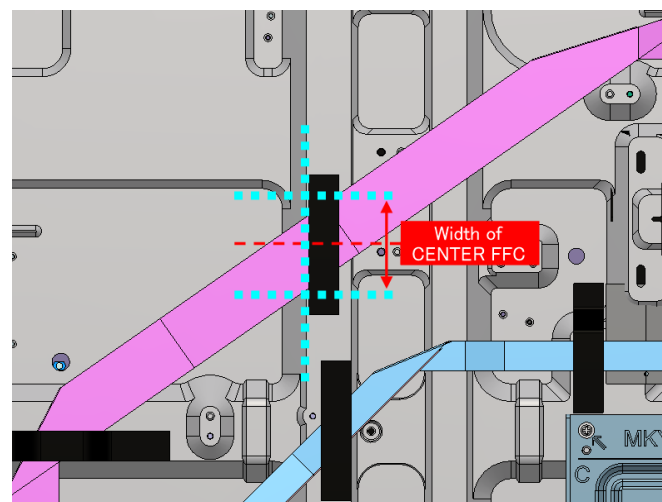
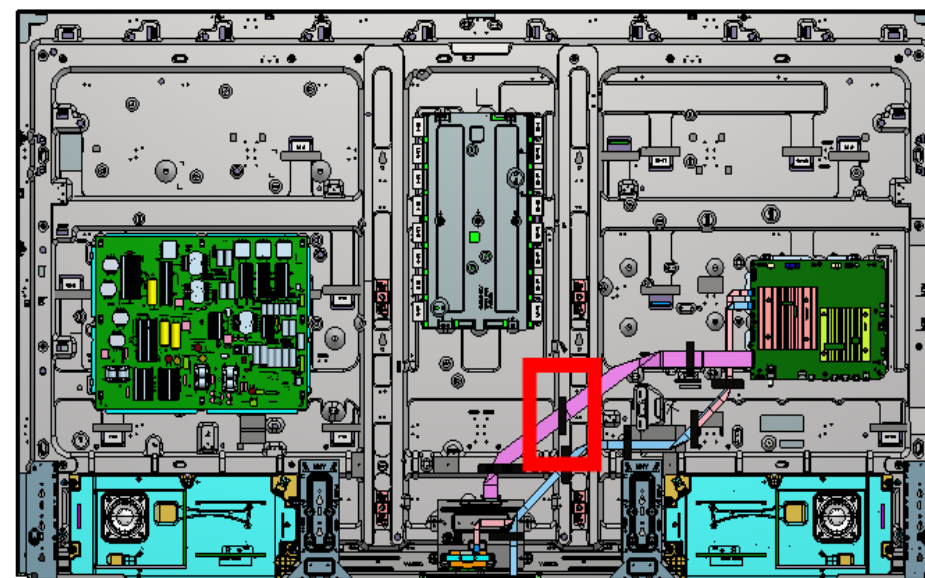
SECTION 3: XR-85X9*

3-3. WIRE DRESSING

TAPE



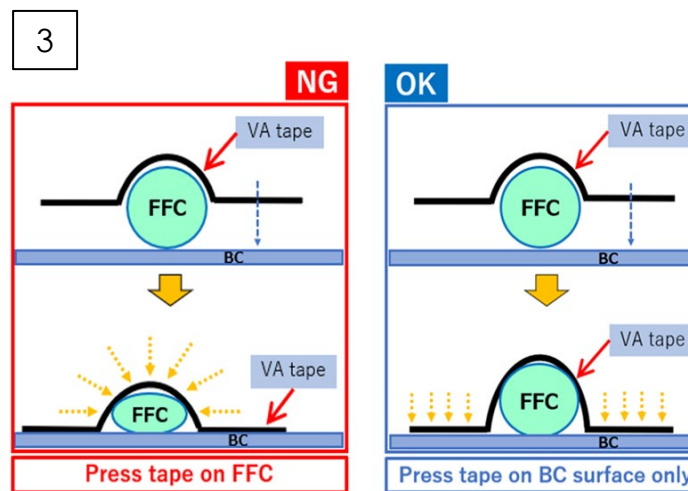
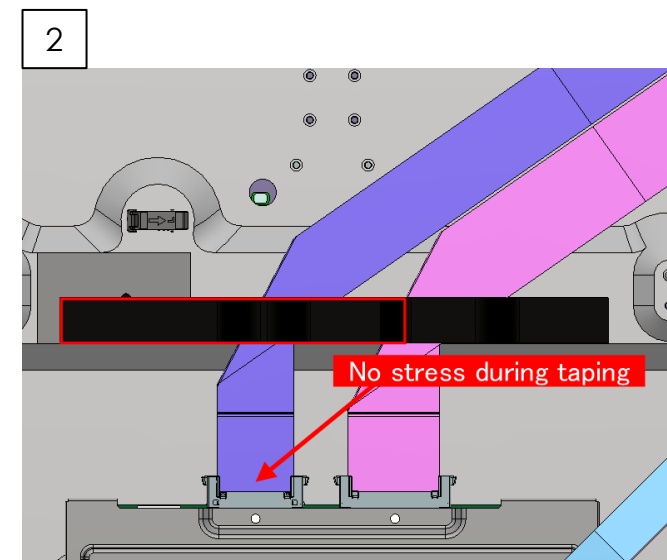
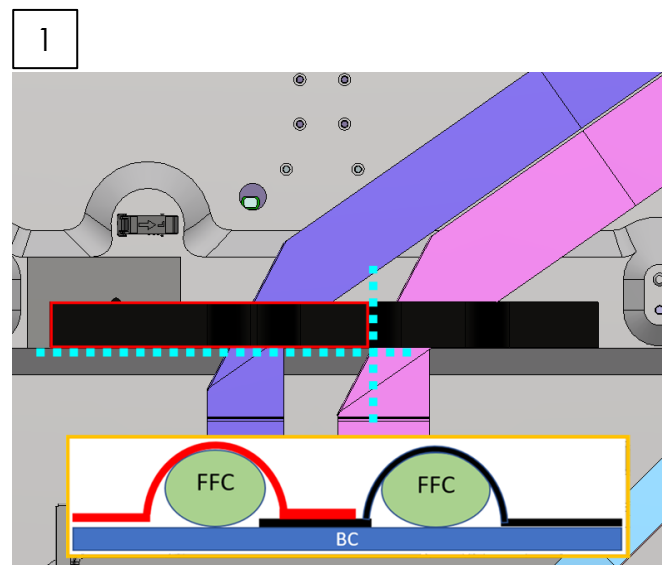
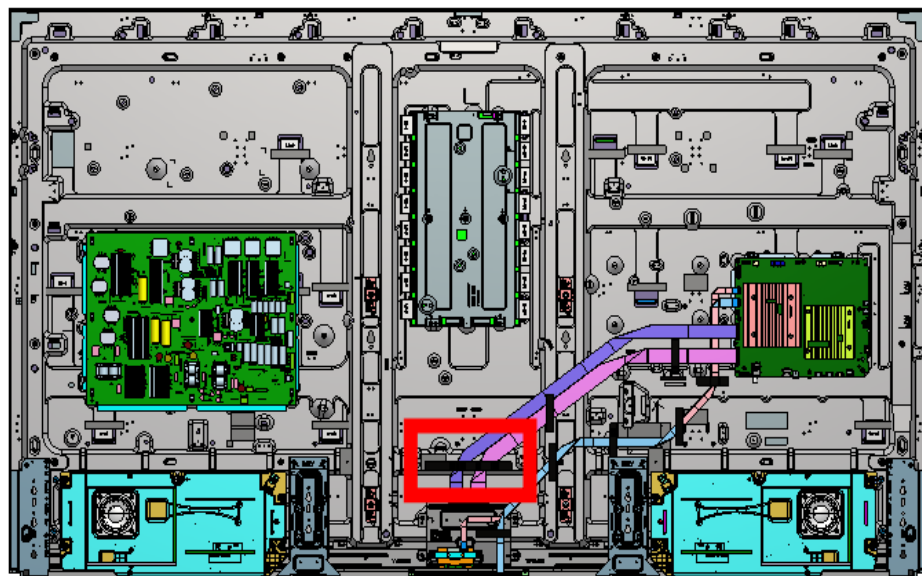
TAPE



SECTION 3: XR-85X9*

3-3. WIRE DRESSING

TAPE

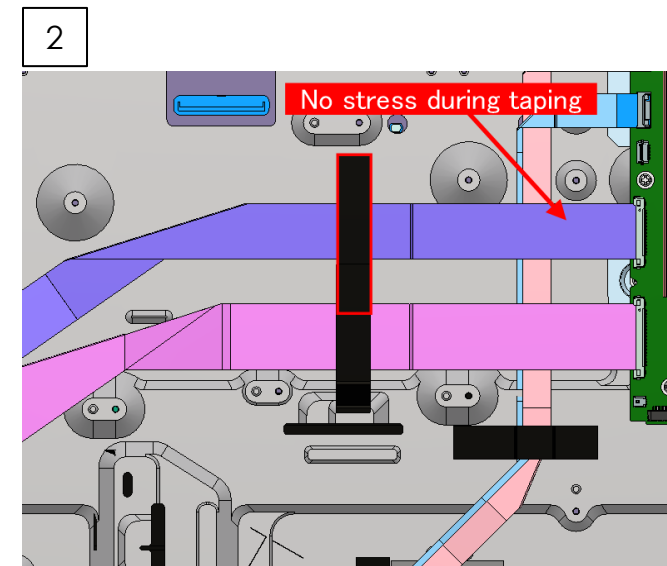
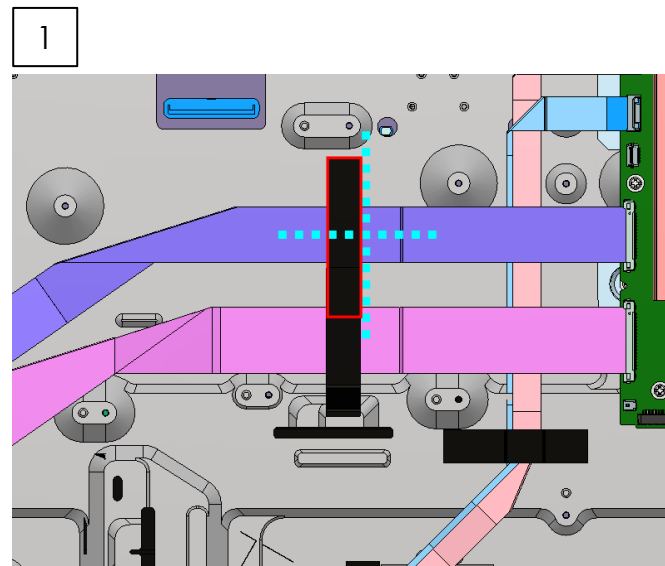
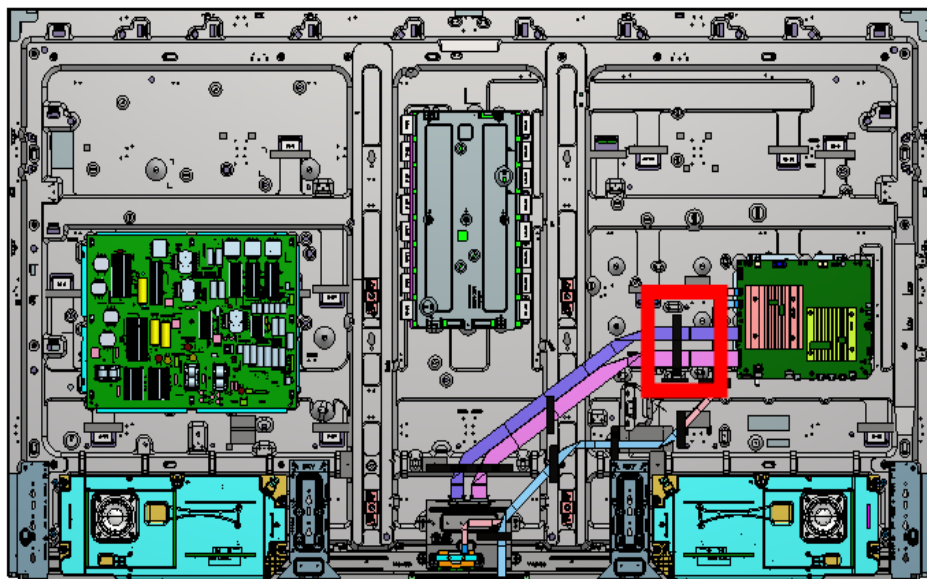


Caution : Do not press tape on FFC

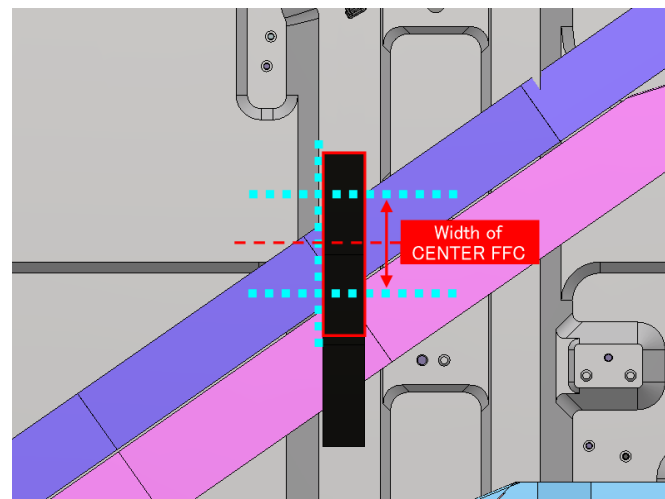
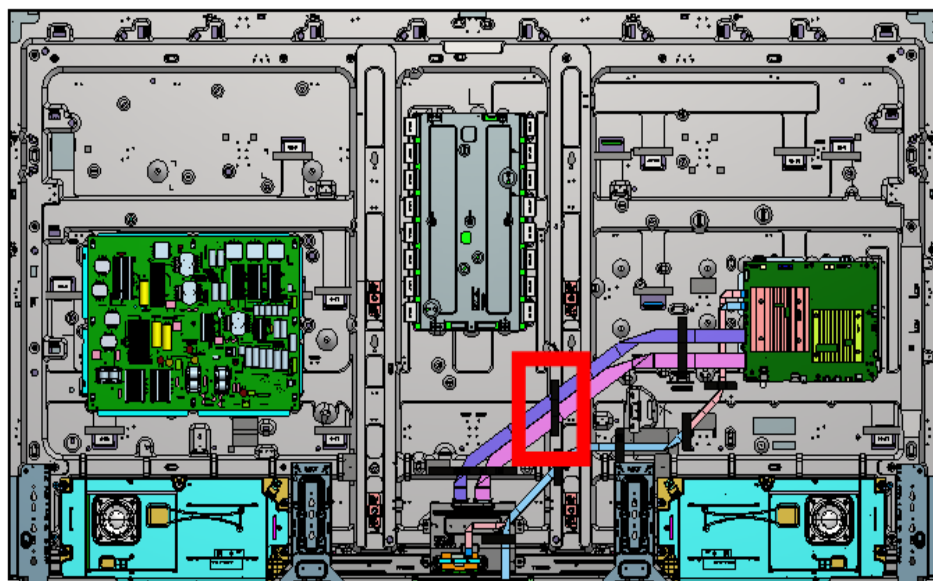
SECTION 3: XR-85X9*

3-3. WIRE DRESSING

TAPE



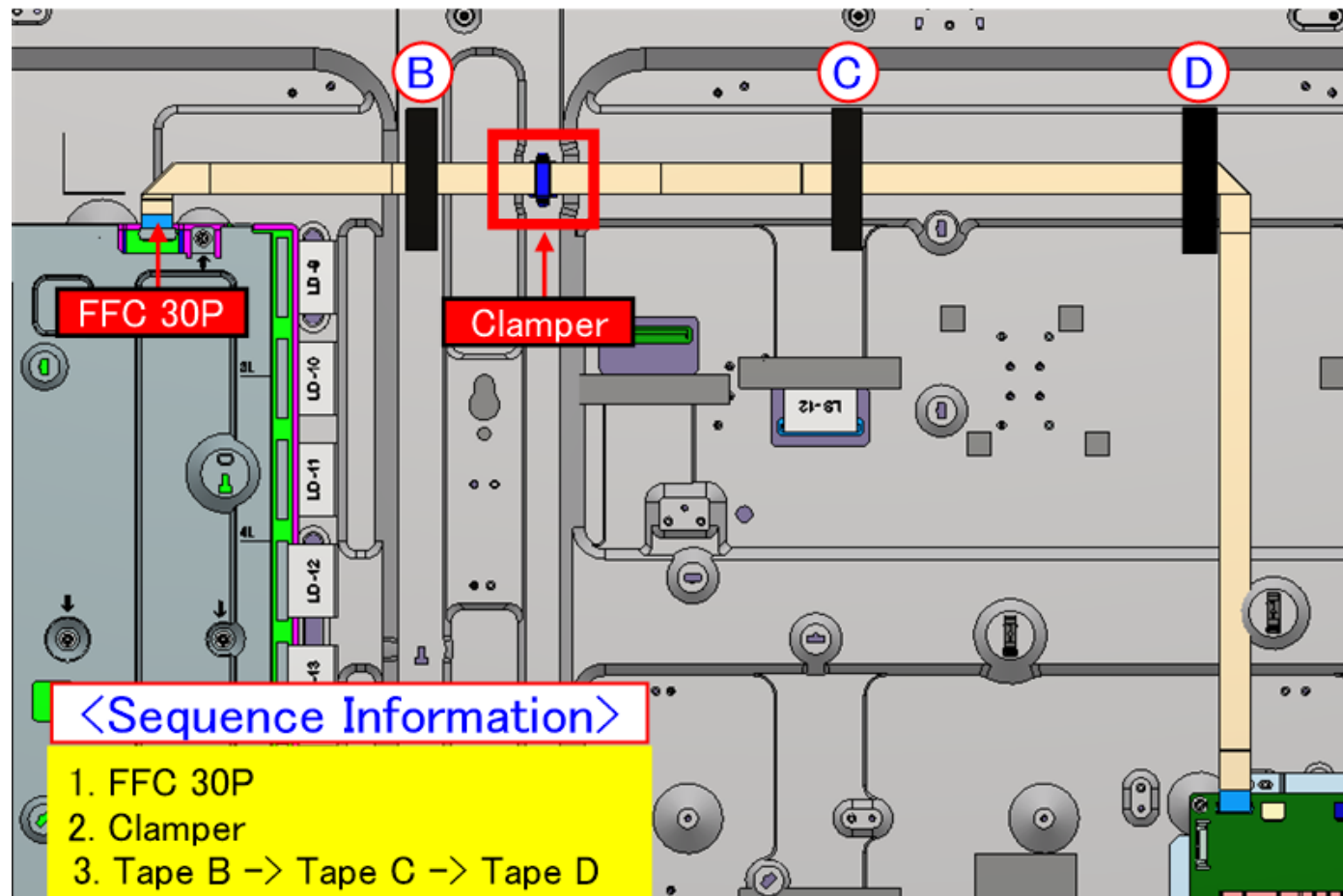
TAPE



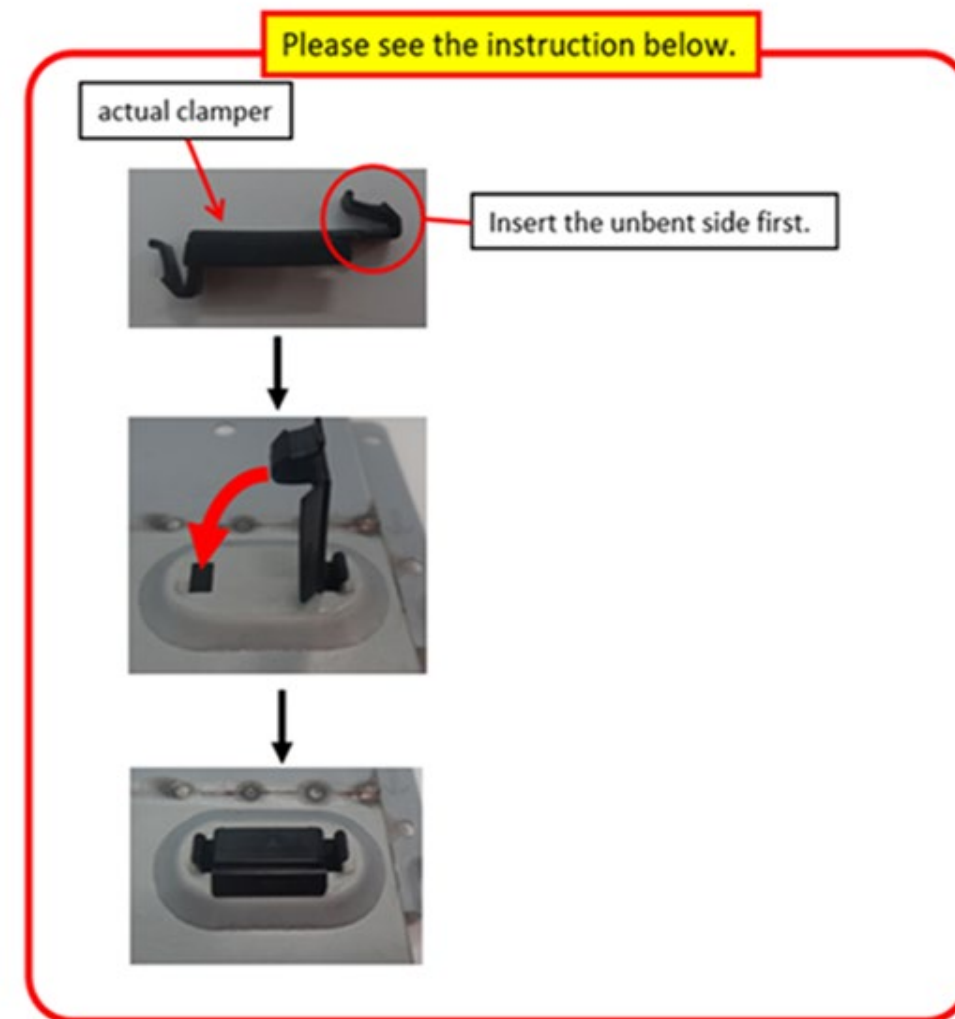
SECTION 3: XR-85X9*

3-3. WIRE DRESSING

INFORMATION



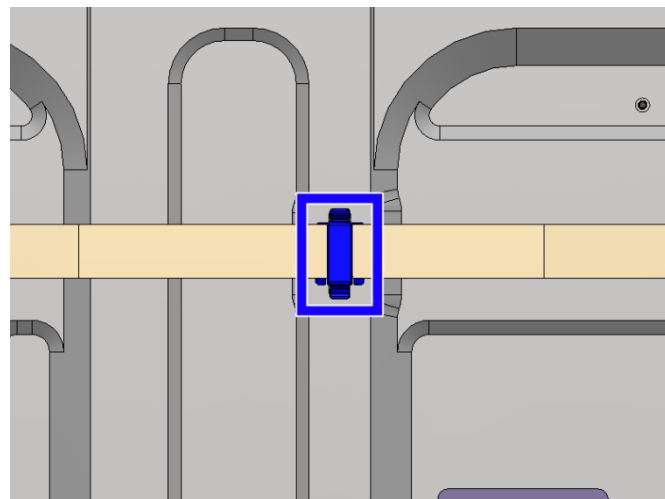
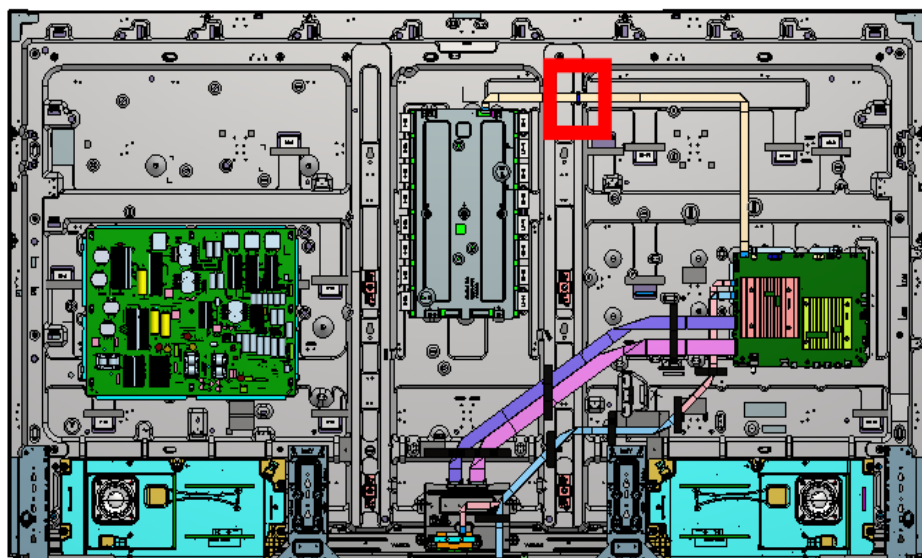
INFORMATION



SECTION 3: XR-85X9*

3-3. WIRE DRESSING

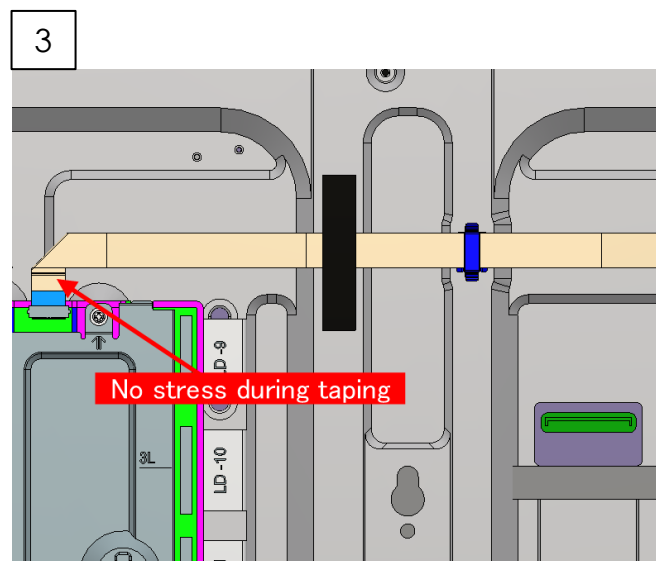
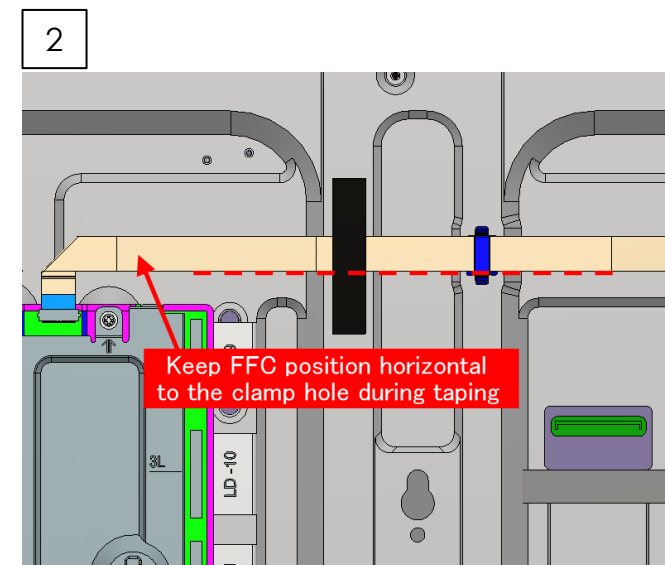
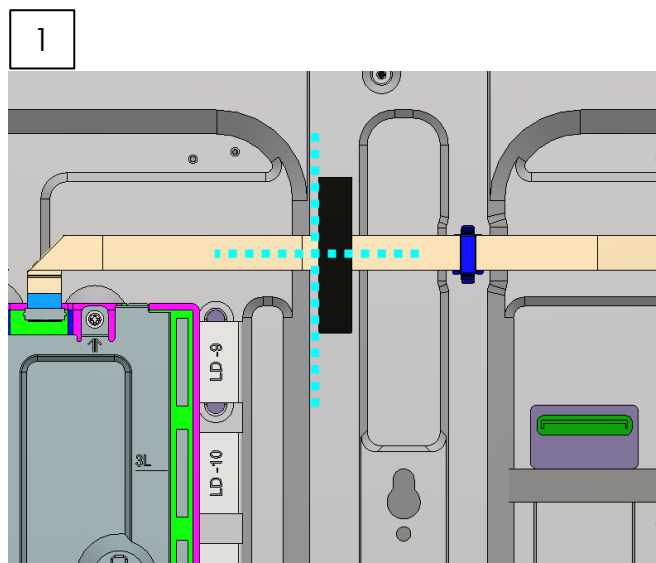
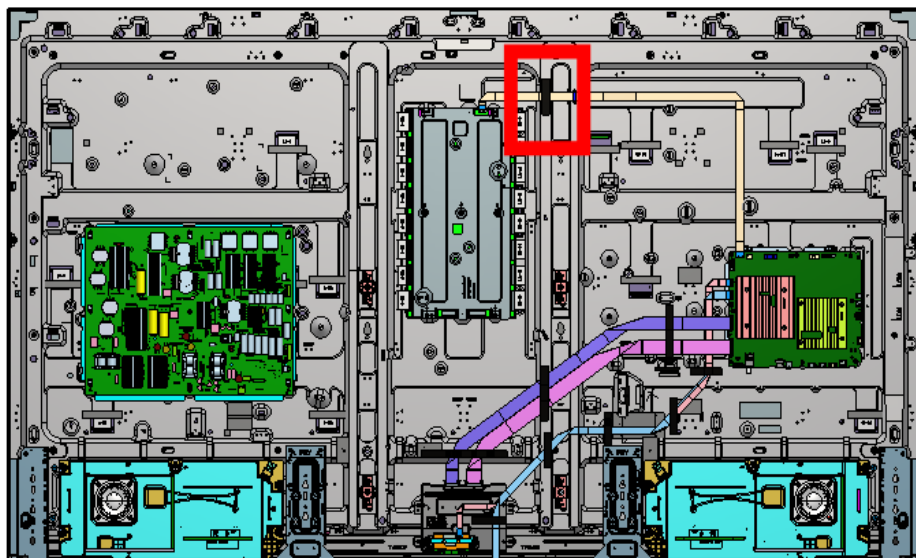
WIRE DRESSING



SECTION 3: XR-85X9*

3-3. WIRE DRESSING

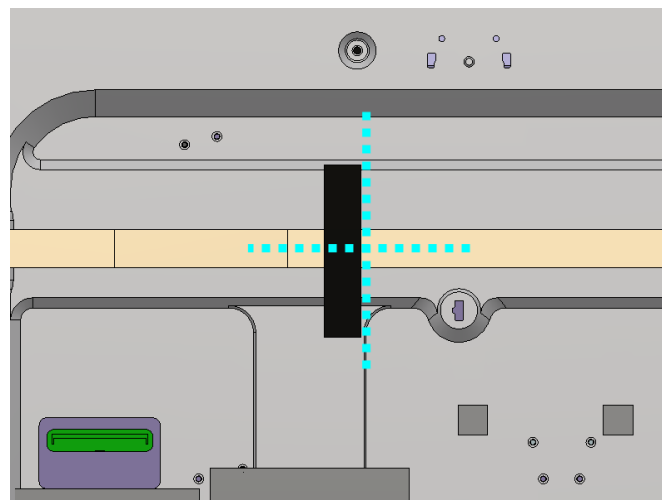
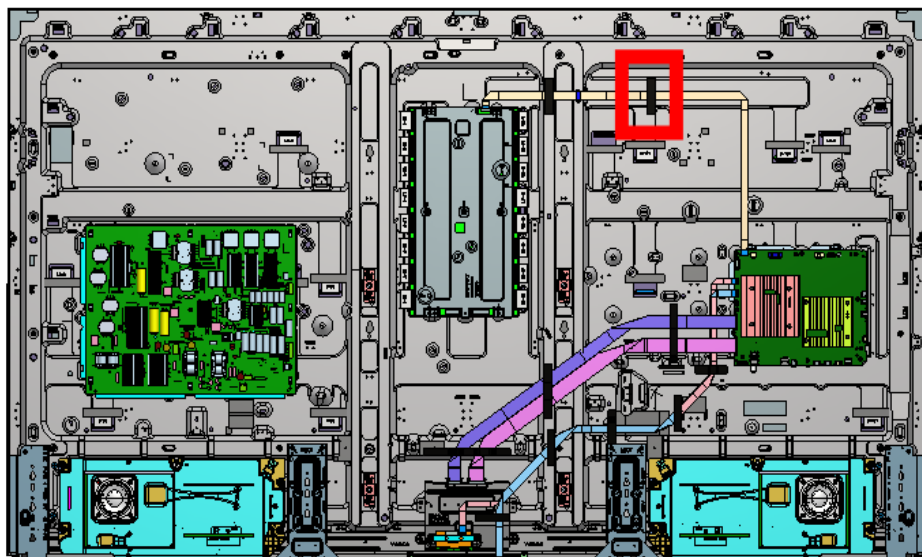
TAPE



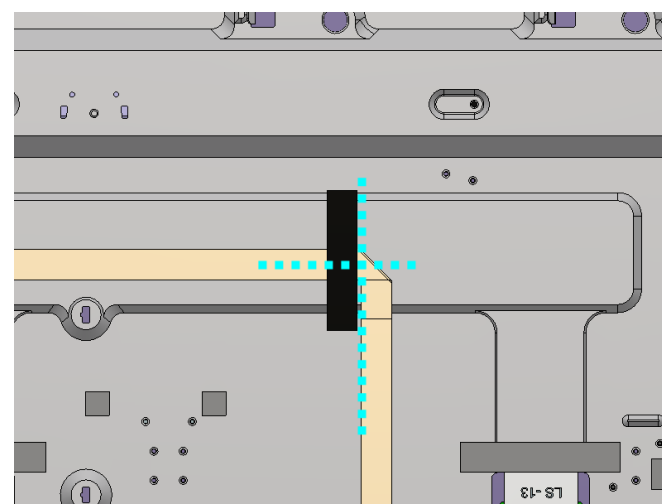
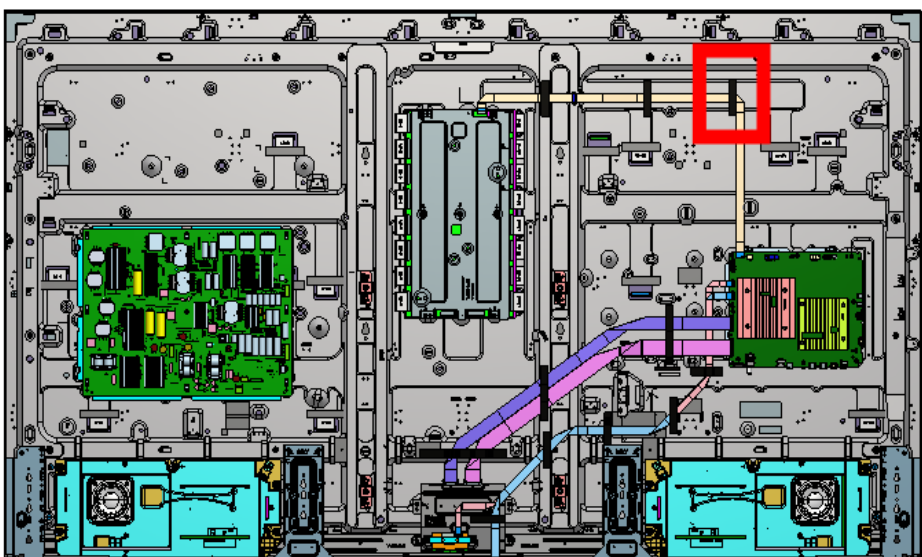
SECTION 3: XR-85X9*

3-3. WIRE DRESSING

TAPE



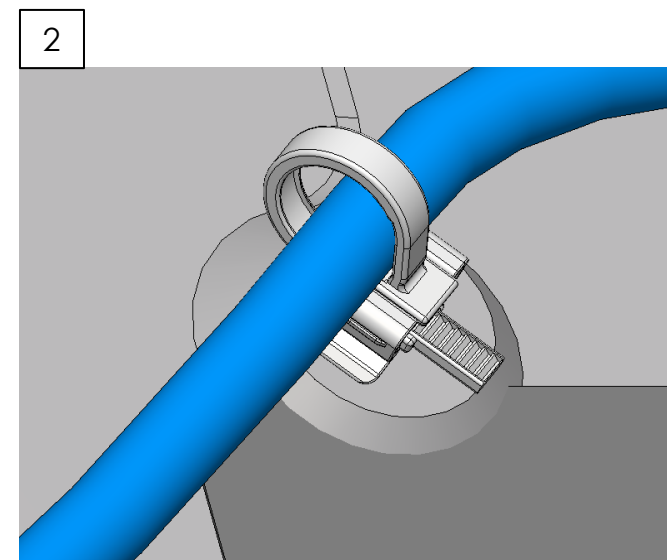
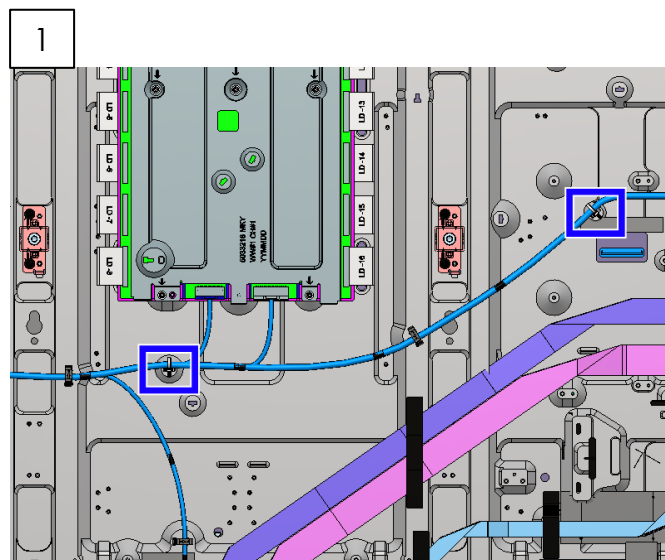
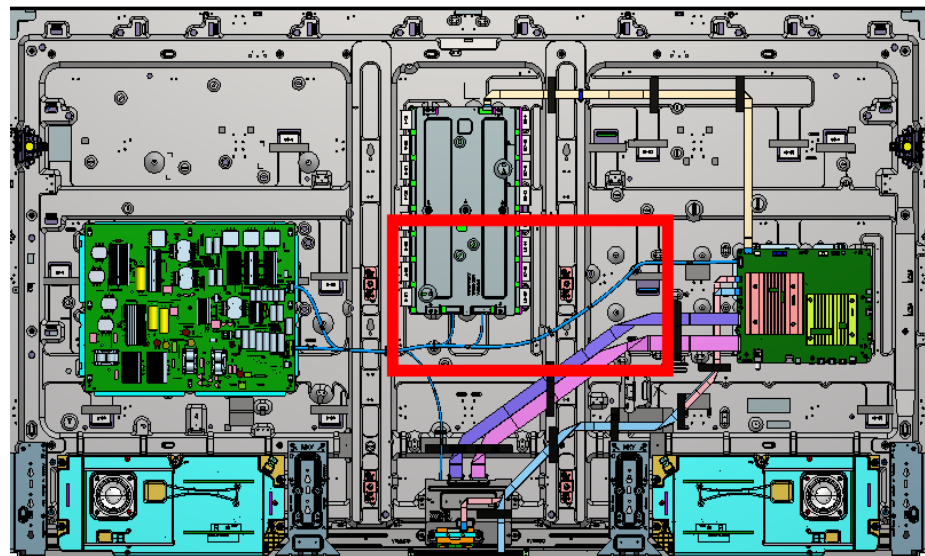
TAPE



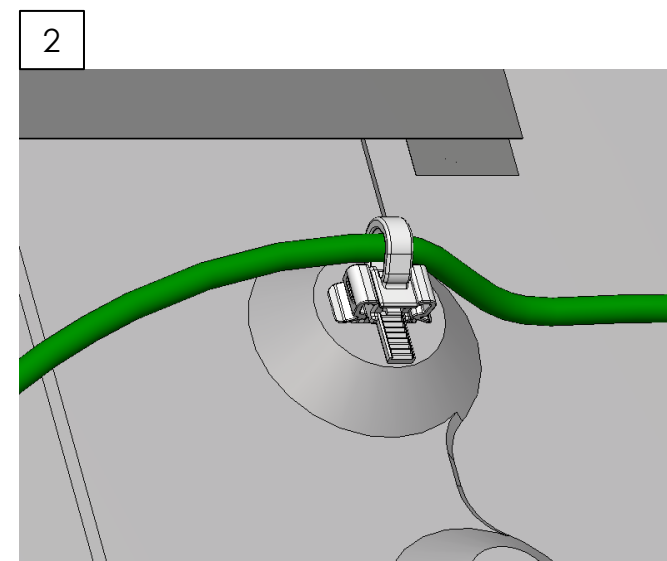
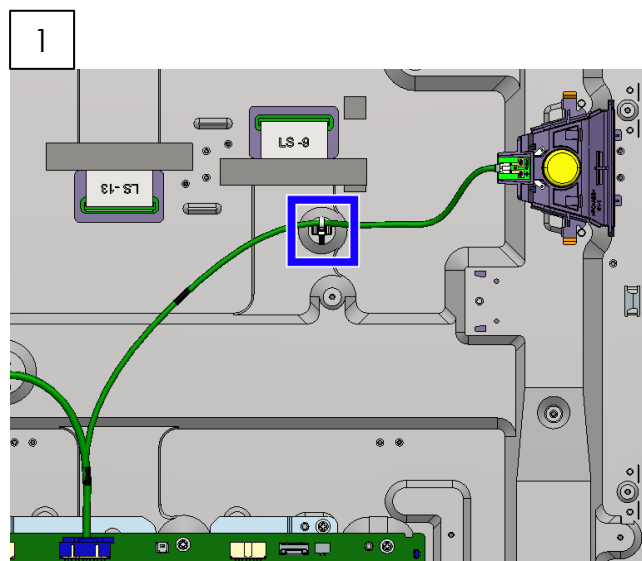
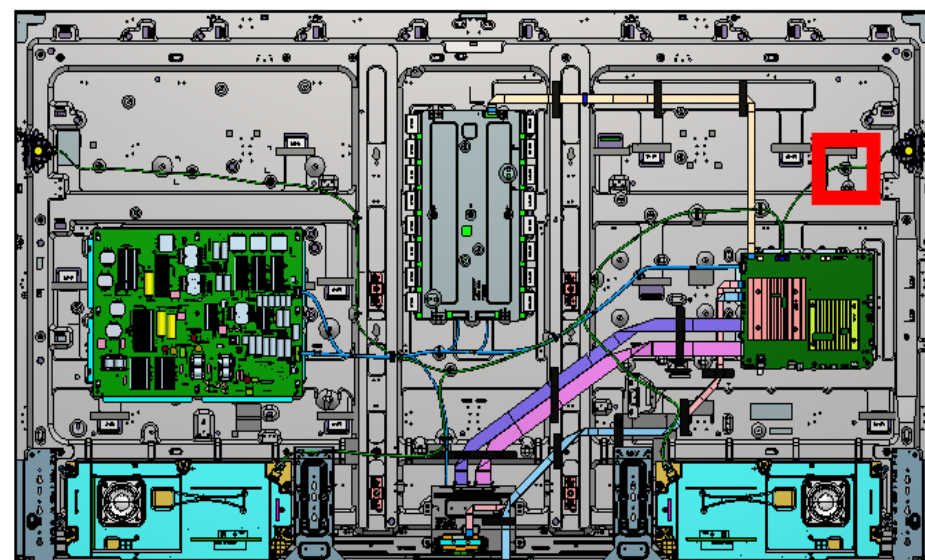
SECTION 3: XR-85X9*

3-3. WIRE DRESSING

WIRE DRESSING



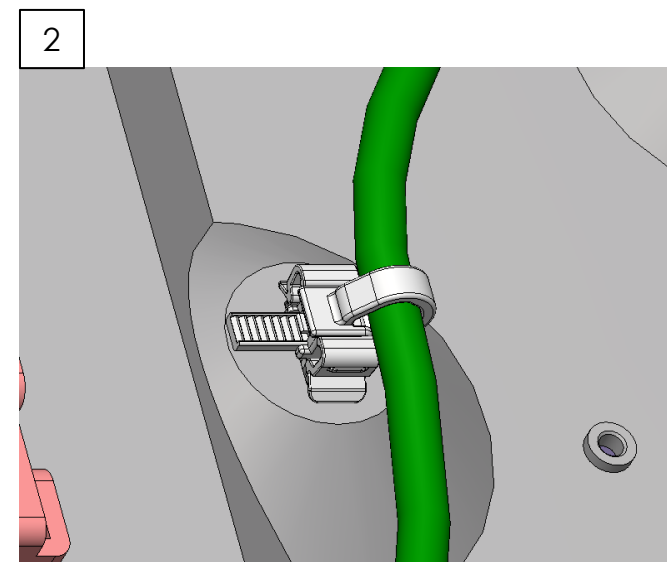
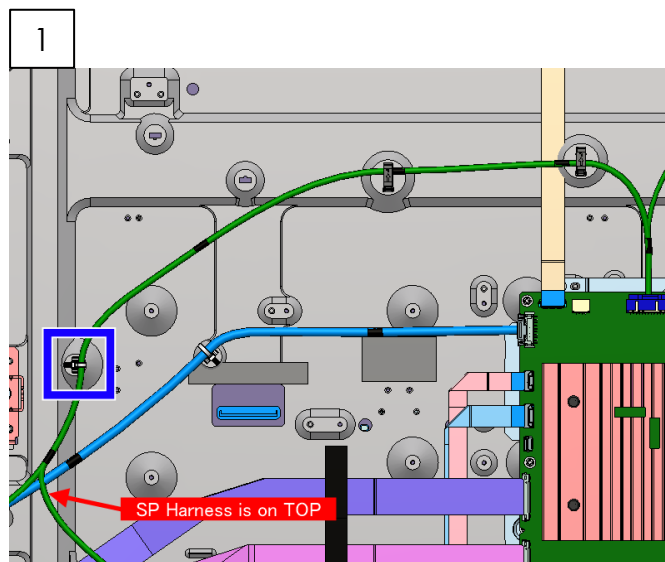
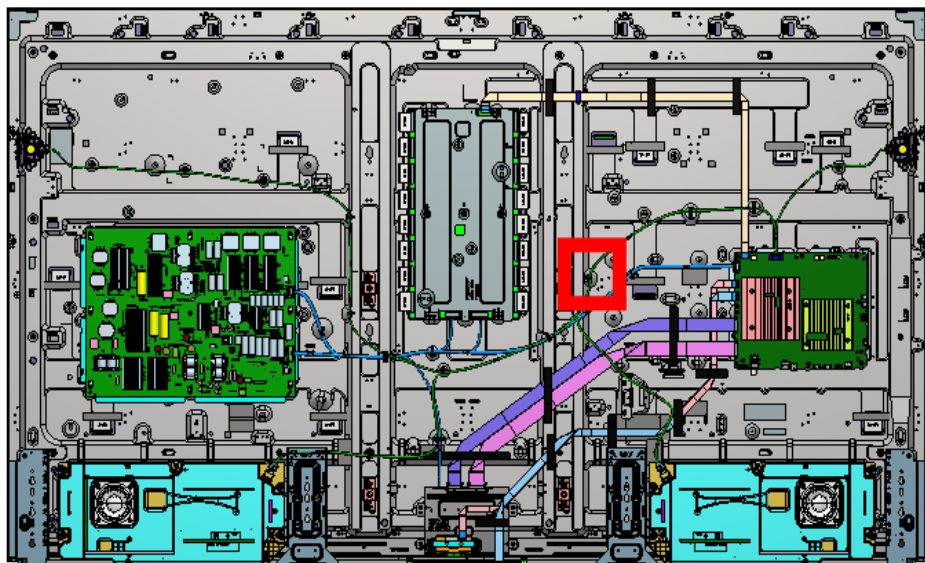
WIRE DRESSING



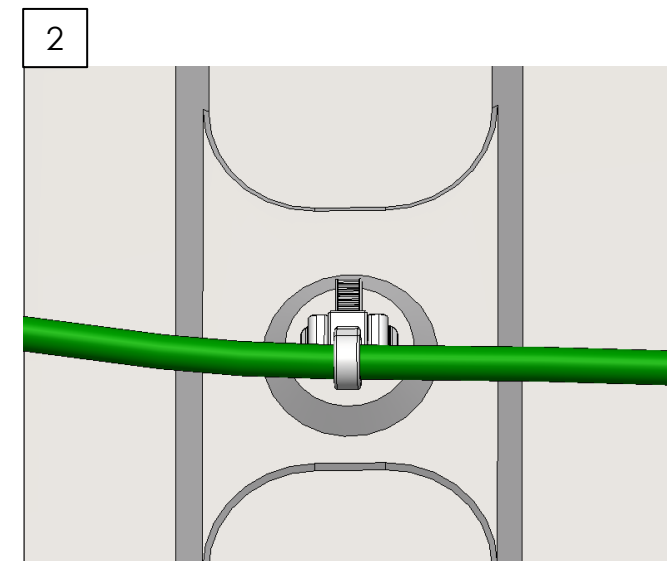
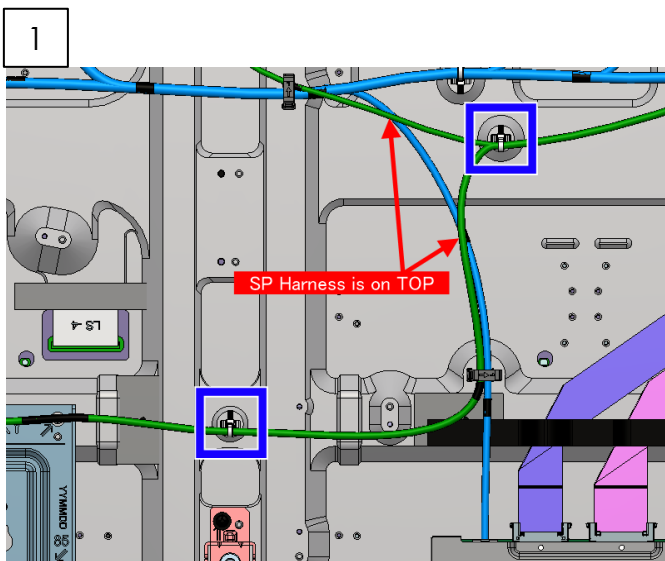
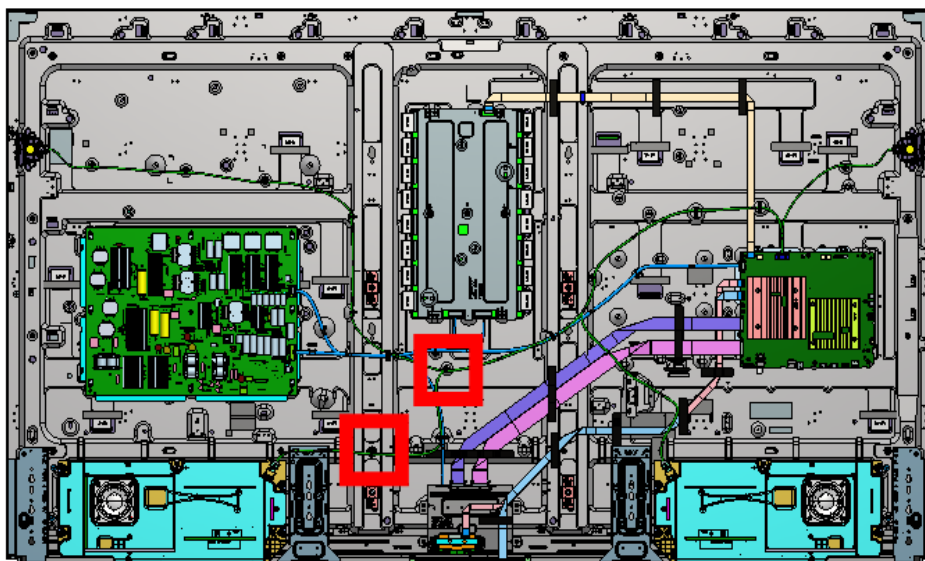
SECTION 3: XR-85X9*

3-3. WIRE DRESSING

WIRE DRESSING



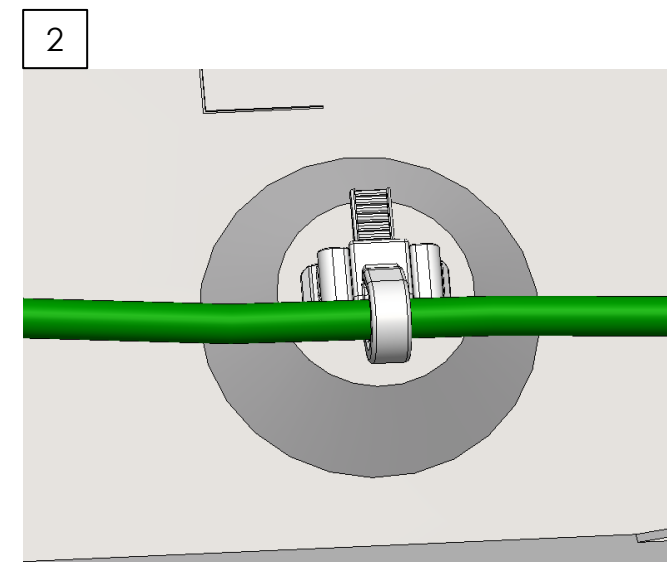
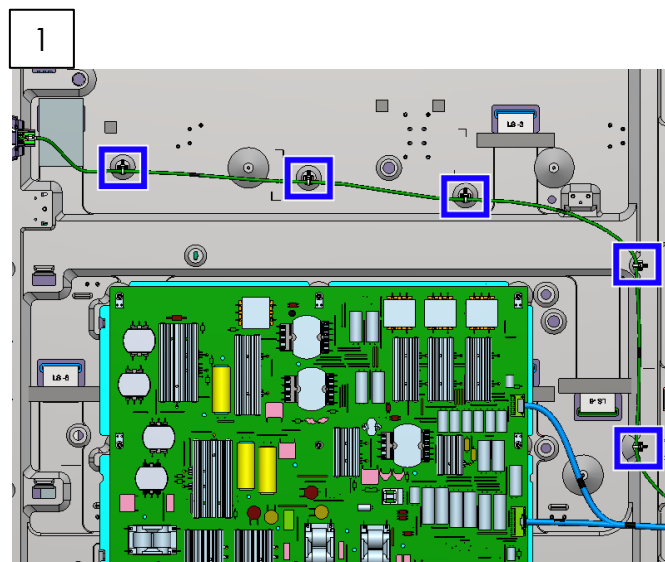
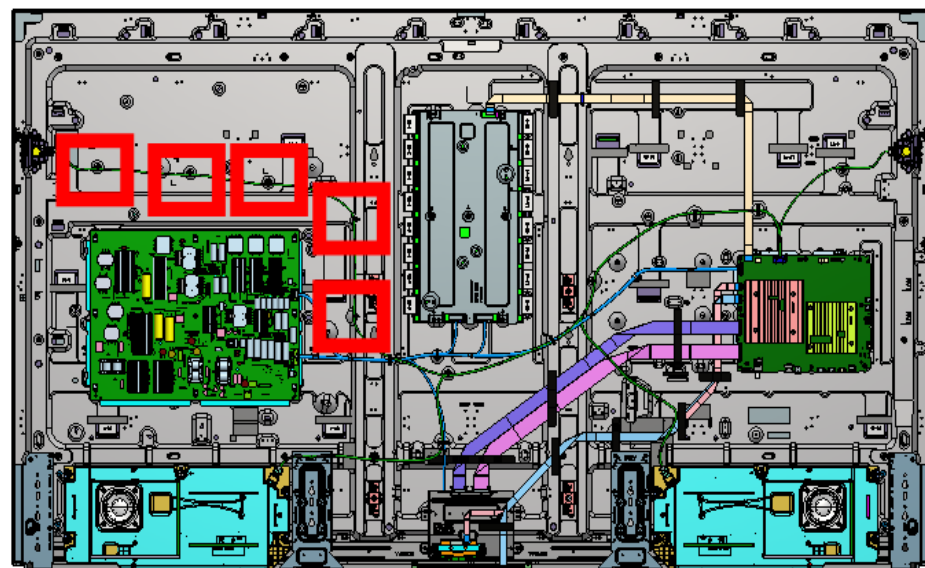
WIRE DRESSING



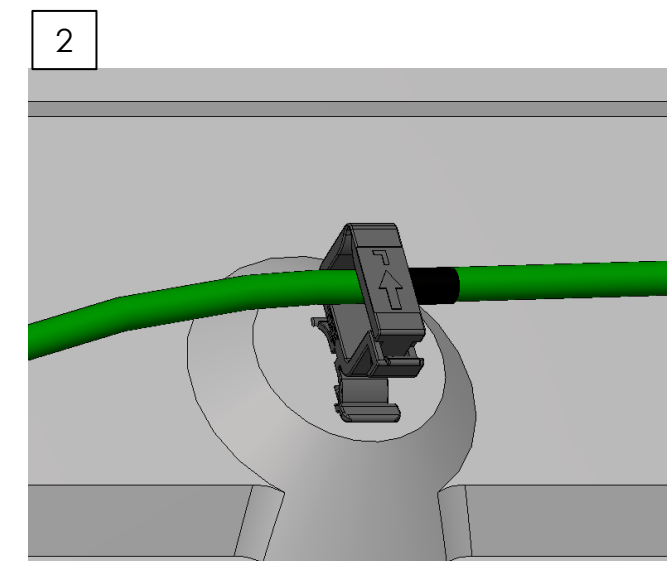
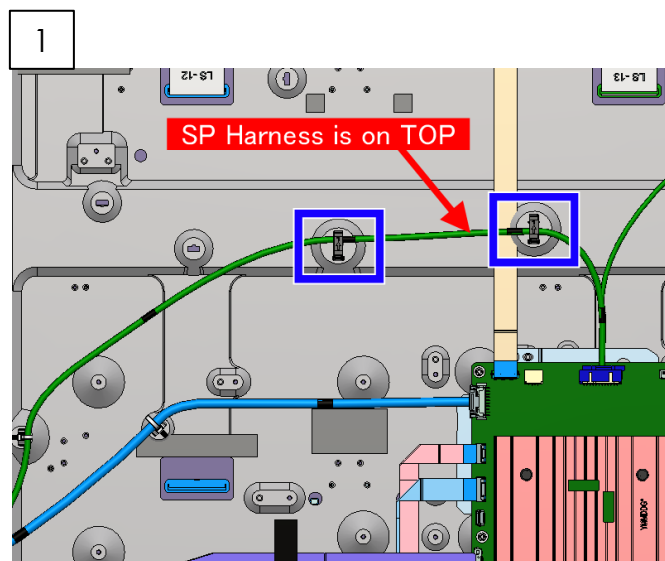
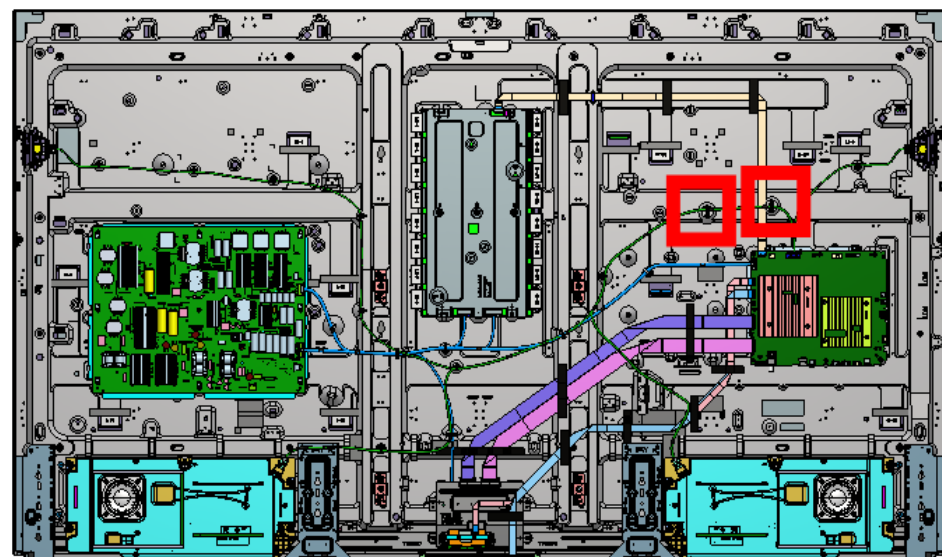
SECTION 3: XR-85X9*

3-3. WIRE DRESSING

WIRE DRESSING



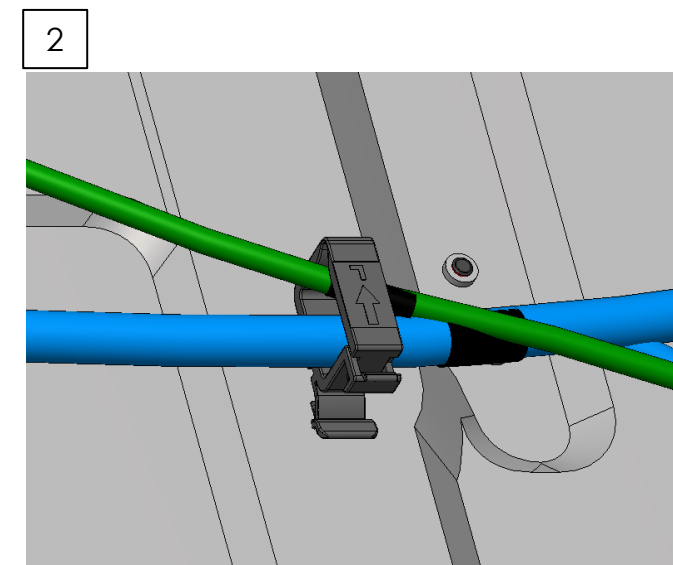
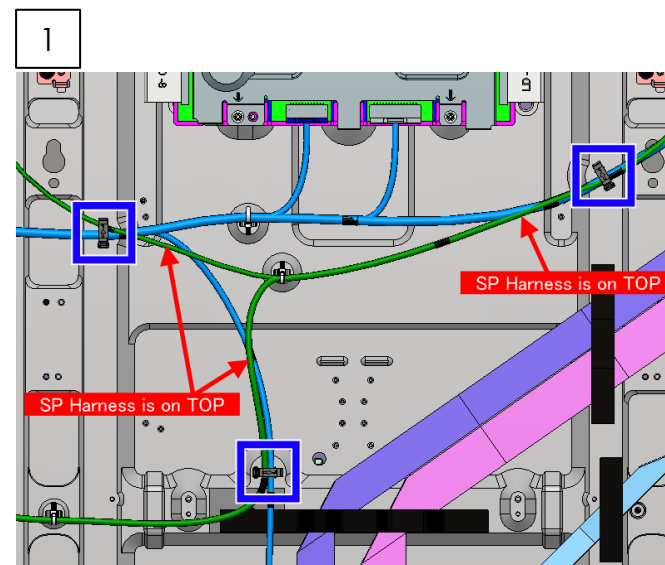
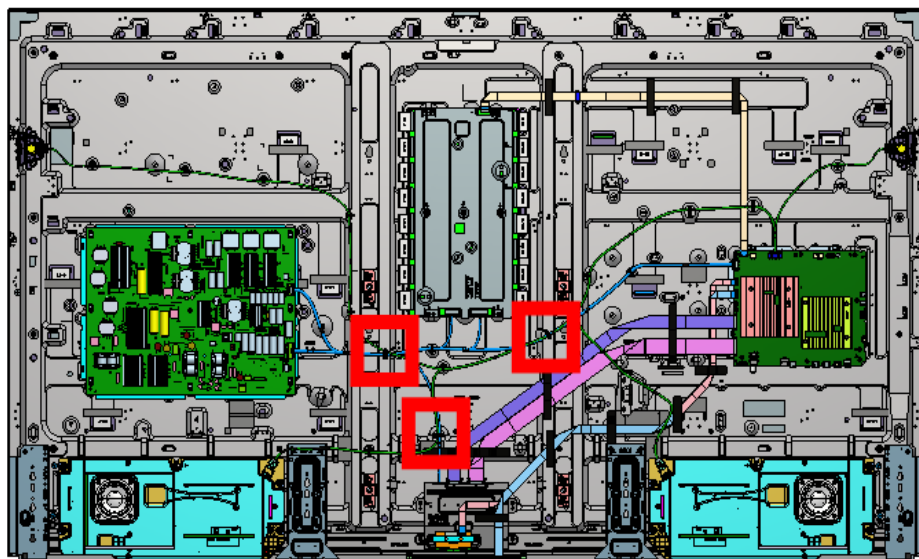
WIRE DRESSING



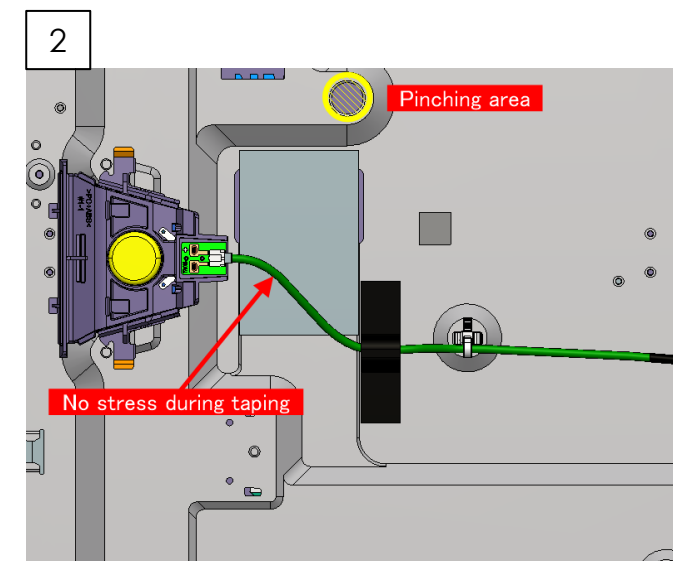
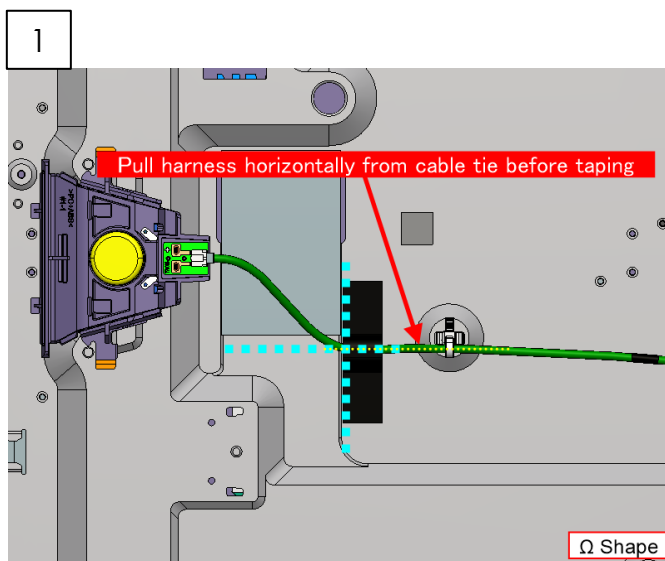
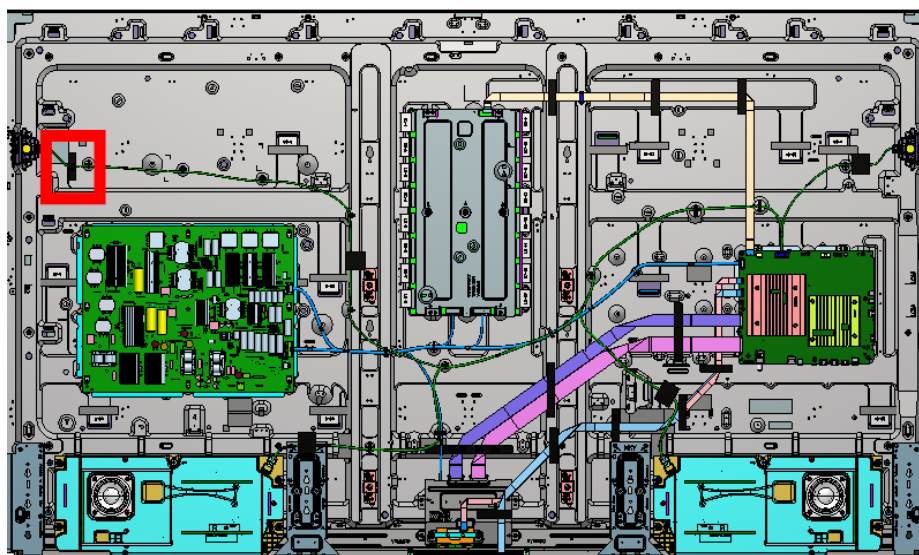
SECTION 3: XR-85X9*

3-3. WIRE DRESSING

WIRE DRESSING



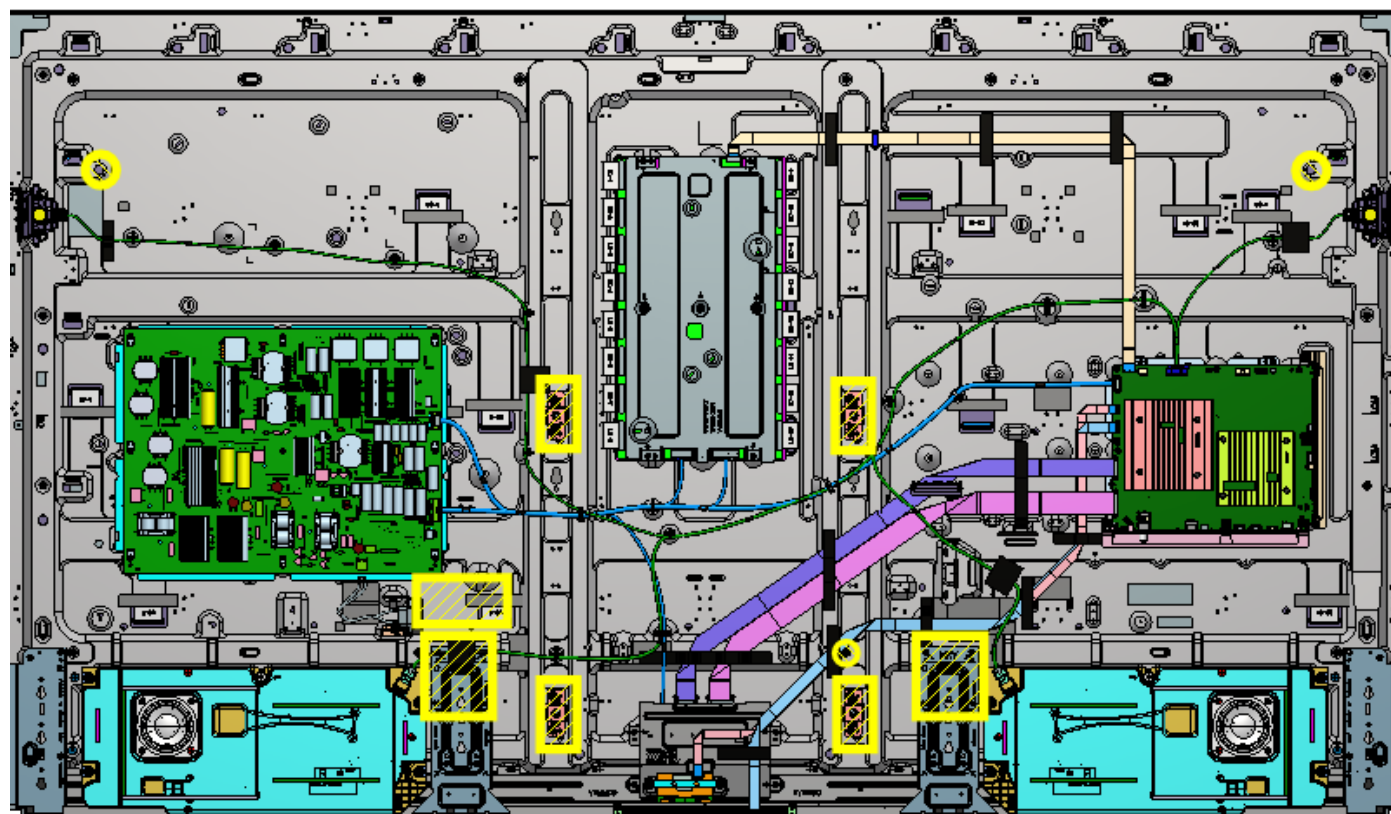
TAPE



SECTION 3: XR-85X9*

3-3. WIRE DRESSING



INFORMATION



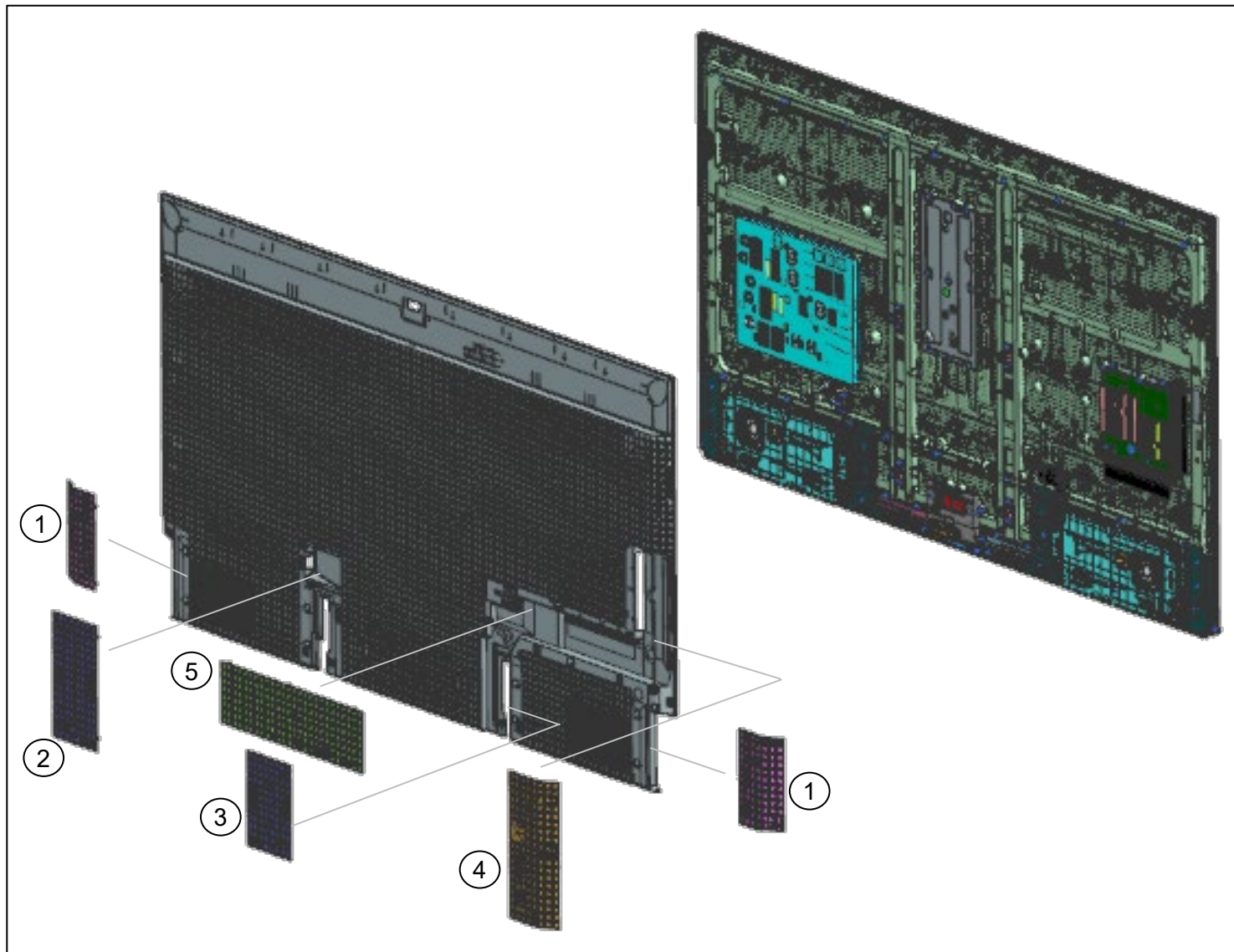
Caution : Ensure harness is away from inhibit area

SECTION 3: XR-85X9*

3-4. EXPLODED VIEW AND PART LIST

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



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



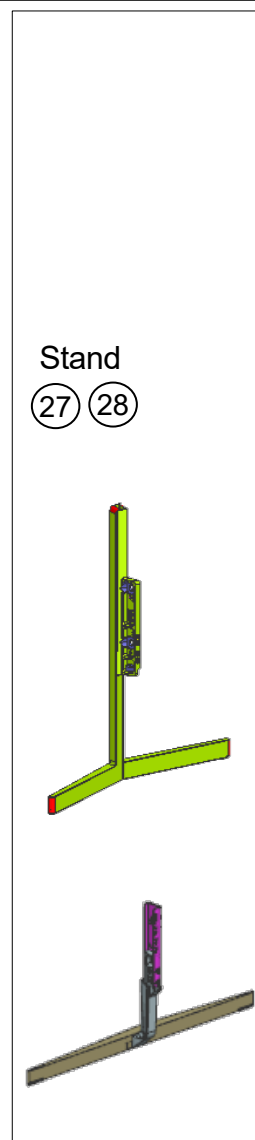
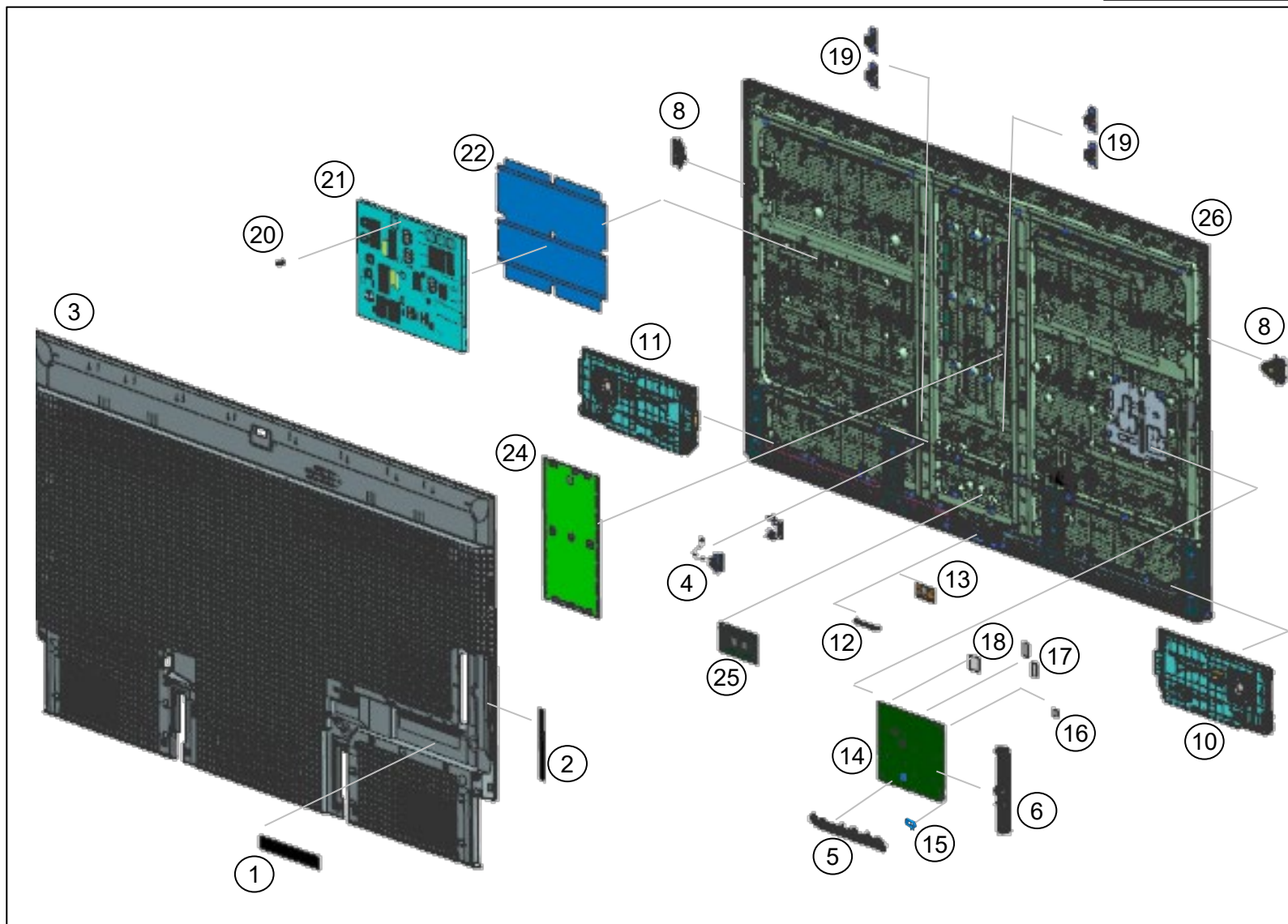
| REF. NO | PART NO. | DESCRIPTION | REMARKS |
|---------|--------------|---------------------------|---|
| 1 | 5-035-719-01 | STAND COVER LR (3L MKY) A | Including STAND COVER L (3L MKY) & STAND COVER R (3L MKY) |
| 2 | 5-035-721-01 | STAND COVER CR (3L MKY) A | - |
| 3 | 5-035-720-01 | STAND COVER CL (3L MKY) A | - |
| 4 | 5-035-717-01 | COVER TML V (3L MKY) A | Side Terminal Cover |
| 5 | 5-035-718-01 | COVER TML H (3L MKY) A | Under Terminal Cover |

SECTION 3: XR-85X9*

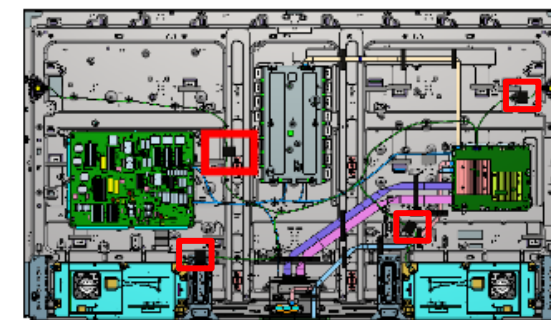
3-4. EXPLODED VIEW AND PART LIST

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

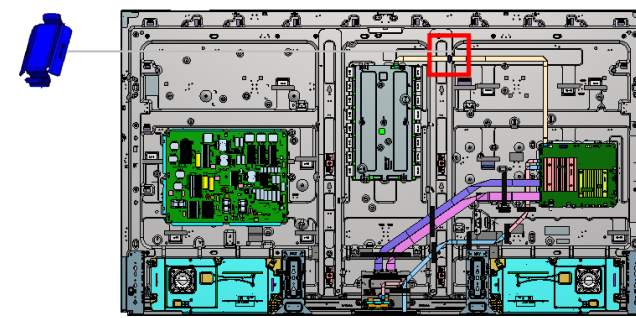
- \ (*) Parts are not stocked since they are seldom required for routine service. Some delays should be anticipated when ordering these components.
- \ Picture provided in this section might have slight difference from the actual sets.
- \ The reference number beside the part indicates the disassembly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



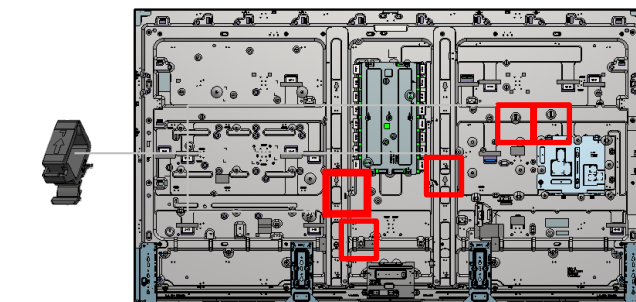
7 4-531-003-01, CUSHION 3525A



9 4-745-335-01, FLAT CLAMP(FFC)










23 2-650-770-31 SLIDE, CLAMP



SECTION 3: XR-85X9*

3-4. EXPLODED VIEW AND PART LIST

SET PART LIST

| REF. NO | PART NO. | DESCRIPTION | XR-85X95K | XR-85X93L | REMARKS |
|--|--------------|--------------------------------|-----------|-----------|------------|
| | | | UCM | UC2 | - |
| 1 | 5-036-141-01 | LABEL, UNDER TERMINAL (BM5S22) | • | n/a | - |
| 1 | 5-049-098-01 | LABEL, UNDER TERMINAL(BM5S,6S) | n/a | • | - |
| 2 | 5-036-145-01 | LABEL, SIDE TERMINAL (BM5S22) | • | n/a | - |
| 2 | 5-049-096-01 | LABEL, SIDE TERMINAL(BM5S,6S) | n/a | • | - |
|  3 | 5-033-689-01 | REAR COVER (4L MKY) A | • | • | - |
|  4 | 1-843-998-31 | AC INLET | • | • | Compatible |
|  4 | 1-002-004-12 | C18 AC INLET | • | • | |
| 5 | 4-724-146-14 | BRACKET, UNDER (BM2A) | • | • | - |
| 6 | 5-036-017-22 | BRACKET, SIDE(SGT) | • | • | - |
| 7 | 4-531-003-01 | CUSHION 3525A | • | • | - |
| 8 | 1-013-275-11 | LOUDSPEAKER, FY22 TW16-19MM | • | • | - |
| 9 | 4-745-335-01 | FLAT CLAMP(FFC) | • | • | - |
| 10 | 1-013-634-11 | SP-BOX ASSY, FY22 D33-SLIT(L) | • | • | - |
| 11 | 1-013-634-21 | SP-BOX ASSY, FY22 D33-SLIT(R) | • | • | - |
| 12 | 5-009-258-21 | BRACKET, WIFI(BNN) | • | • | - |
|  13 | 1-005-419-32 | WLAN/BT MODULE(11AC)FXC | • | n/a | - |
|  13 | 1-005-419-14 | WLAN/BT MODULE(11AC) | n/a | • | - |
|  14 | A-5044-976-A | COMPL SVC BM5S22B_FM_UCMX | • | n/a | - |
|  14 | A-5056-077-A | COMPL SVC BM5S22B_FM2_UCMX | n/a | • | - |





Notes :

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

7 CUSHION 3525A

22 SHT, INSULATION (4L MKY)

SECTION 3: XR-85X9***3-4. EXPLODED VIEW AND PART LIST****SET PART LIST**

| REF. NO | PART NO. | DESCRIPTION | XR-85X95K | XR-85X93L |
|--|---------------|-----------------------------|-----------|-----------|
| | | | UCM | UC2 |
| 15 | 5-023-281-02 | KEY, TOP(SGT) | • | • |
| 16 | 4-699-975-02 | SHEET, THERMAL(5567H) | • | • |
| 17 | 5-023-557-01 | SHEET THERMAL(BM5S21 DDR) | • | • |
| 18 | 5-011-960-01 | SHEET, THERMAL(LMN TCON) | • | • |
| 19 | *5-023-339-01 | BRACKET, VESA(GMN) | • | • |
| 20 | 4-587-424-22 | SPACER(17)+C | • | • |
|  21 | 1-013-592-11 | G29 - STATIC CONVERTER(TV) | • | n/a |
|  21 | 1-016-075-11 | G211 - STATIC CONVERTER(TV) | n/a | • |
|  22 | 5-035-897-01 | SHT, INSULATION (4L MKY) | • | • |
| 23 | 2-650-770-31 | SLIDE, CLAMP | • | • |
| 24 | A-5041-950-A | 22LD768A2 COMPL | • | • |
| 25 | 1-013-504-11 | MOUNTED PWB E-T-CON (85) | • | • |
|  26 | A-5042-998-A | P-MOD(YDCS085MDU02) | • | n/a |
| 27 | 5-034-696-01 | STAND L (4L MKY) A | • | • |
| 28 | 5-034-697-01 | STAND R (4L MKY) A | • | • |

Notes :

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

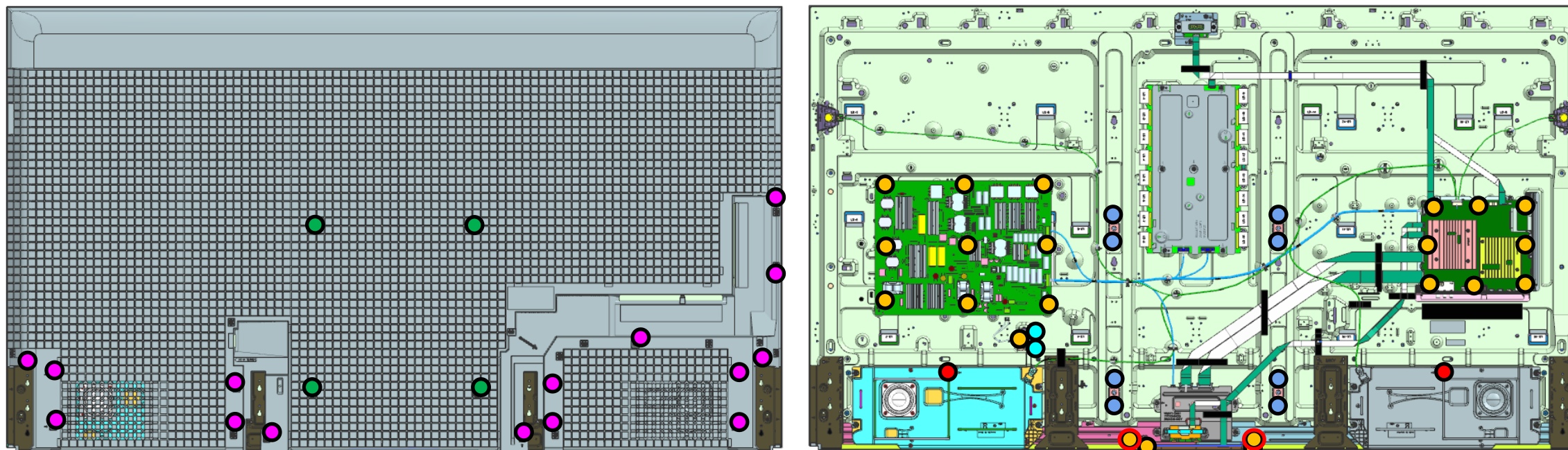
7 CUSHION 3525A

22 SHT, INSULATION (4L MKY)

SECTION 3: XR-85X9*

3-4. EXPLODED VIEW AND PART LIST

SCREW

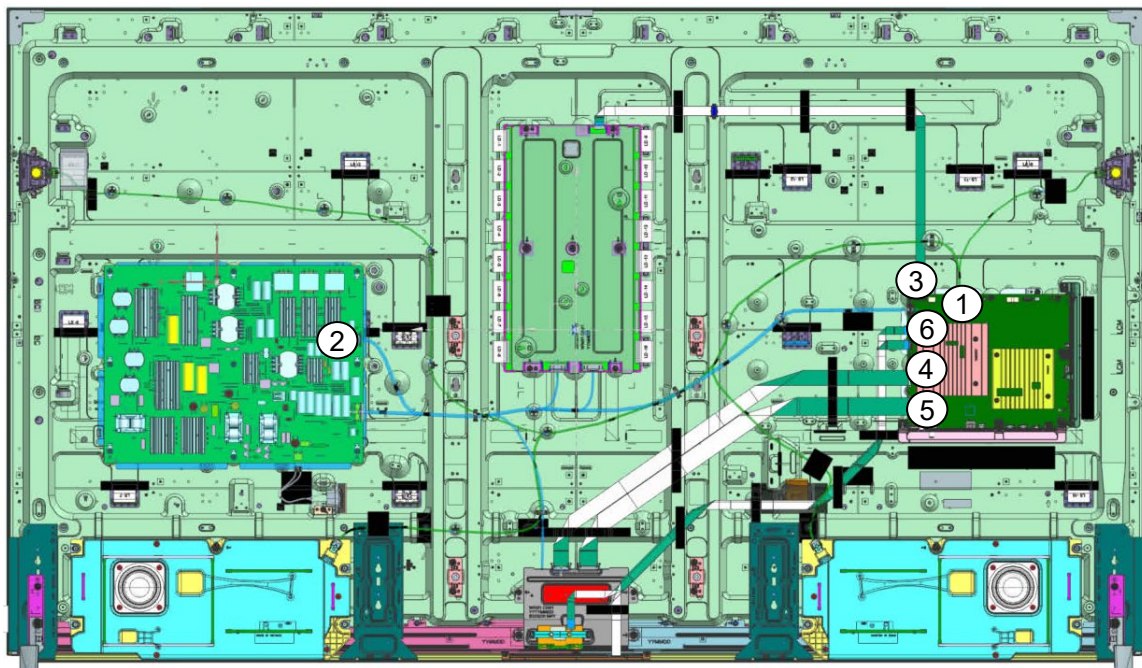


| REMARKS | P/N | DESCRIPTION | QTY | TORQUE (N.m) | REMARKS |
|---------|--------------|-------------------------|-----|--------------|------------|
| | 4-268-126-02 | SCREW, ORNAMENTAL M6X12 | 4 | 1.2 ± 0.1 | - |
| | 4-579-926-01 | SCREW M3X3.0 STEP | 15 | 0.65 ± 0.05 | - |
| | 4-256-393-12 | SCREW, +PSW M3X6 W12 | 2 | 0.4 ± 0.05 | - |
| | 2-580-600-01 | SCREW, +PSW M4X8 | 8 | 0.65 ± 0.05 | - |
| | 2-580-592-01 | SCREW, +PSW M3X8 | 2 | 0.4 ± 0.05 | - |
| | 4-472-518-11 | SCREW, +PSW M3x6 | 20 | 0.4 ± 0.05 | - |
| | 4-472-518-11 | SCREW, +PSW M3x6 | 18 | 0.4 ± 0.05 | 93L / 93CL |
| | 7-682-948-09 | SCREW +PSW 3X8 | 2 | 0.4 ± 0.05 | 93L / 93CL |

SECTION 3: XR-85X9*


3-4. EXPLODED VIEW AND PART LIST

CONNECTOR



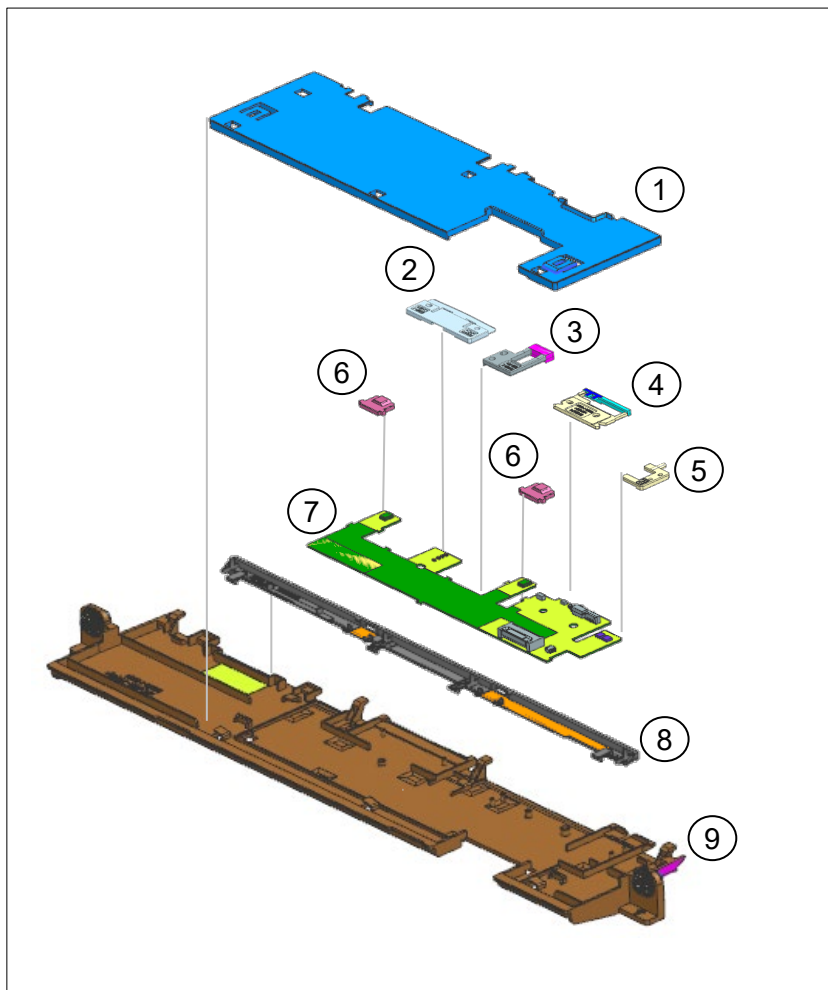
| REF. NO | PART NO. | DESCRIPTION | REMARKS |
|---------|--------------|-----------------------------|--|
| 1 | 1-014-905-11 | CONNECTOR ASSY 12P (SP) | CN6603(B)-SP(1) |
| 2 | 1-014-904-11 | CONNECTOR ASSY 28P | CN1700(B)-CN6401(G)-CN6601(G)-CN1000(LD)-J105(TCON)(1) |
| 3 | 1-014-844-11 | FLEXIBLE FLAT CABLE 30P | CN6200(B)-CN1000(LD)(1) |
| 4 | 1-014-845-11 | FLEXIBLE FLAT CABLE 41P | CN6801(B)-CN2(TCON)(1) |
| 5 | 1-014-846-11 | FLEXIBLE FLAT CABLE 51P | CN6800(B)-CN3(TCON)(1) |
| 6 | 1-014-842-11 | FLEXIBLE FLAT CABLE 20P/25P | CN103(H)-CN1200(B)-CN3803(B)-BT(1) |

SECTION 3: XR-85X9***3-4. EXPLODED VIEW AND PART LIST****OTHER PARTS**

| PART NO. | DESCRIPTION | XR-85X95K | XR-85X93L | REMARKS |
|--|--------------------------------|-----------|-----------|-------------------------------------|
| | | UCM | UC2 | |
| 4-535-064-62 | 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 | • | • | - |
|  1-836-883-13 | POWER-SUPPLY CORD | • | • | - |
| 1-013-691-23 | REMOTE COMMANDER (RMF-TX800U) | • | n/a | - |
| 1-016-940-21 | REMOTE COMMANDER (RMF-TX810U) | n/a | • | - |
| *5-038-398-11 | REFERENCE GUIDE | • | n/a | - |
| *5-049-617-11 | REFERENCE GUIDE | n/a | • | - |
| *5-038-399-11 | SETUP GUIDE | • | n/a | - |
| *5-049-618-11 | SETUP GUIDE | n/a | • | - |
| 7-600-031-97 | TAPE (3M 1350FB-1)15MMX66M BLK | • | • | - |

SMART CORE

EXPLODED VIEW AND PART LIST



| REF. NO | PART NO. | DESCRIPTION | REMARKS |
|---------|--------------|-------------------------|------------|
| 1 | 5-032-671-01 | COVER, TOP(MKY) | - |
| 2 | 5-032-673-01 | GUIDE, LIGHT ILM(MKY) | - |
| 3 | 5-032-676-01 | GUIDE, LIGHT RGB(MKY) | - |
| 4 | 5-032-674-01 | GUIDE, LIGHT OPT(MKY) | - |
| 5 | 5-032-675-01 | GUIDE, LIGHT LED(MKY) | - |
| 6 | 5-032-677-01 | SILICON, MIC(MKY) | - |
| 7 | A-5042-262-A | HR3_WW_RA_YI_OS MOUNT | 95K |
| 7 | A-5060-177-A | HR3_WW_RA_SI_OS_S MOUNT | 93L / 93CL |
| 8 | 5-032-672-01 | OP, INNER(MKY) | - |
| 9 | 5-032-670-01 | COVER, BTM(MKY) | - |

