

SERVICE MANUAL (TROUBLESHOOTING)

ORIGINAL MANUAL ISSUE DATE: 2023.12

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

9-888-796-21

LCD TV
LCD MONITOR
SONY[®]

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

MODEL LISTS

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



MODEL

KD-43X85J	KD-50X85J	KD-55X85J	KD-65X85J	KD-75X85J	KD-85X85J
FW-43BZ35J	FW-50BZ35J				

TABLE OF CONTENTS

<u>Title</u>	<u>Page</u>
SAFETY NOTES	4
SELF DIAGNOSTIC FUNCTION	11
TROUBLE SHOOTING	14
SOFTWARE UPDATE & RESET	83
DIAGRAMS	87
PANEL HANDLING	93


Please refer Service Manual (Disassembly) for below information:

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

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

SAFETY NOTES

1-1. Warnings and Caution.

- 1) CAUTION :These servicing instructions are for use by qualified service personnel only.
- 2) To reduce the risk of electric shock, do not perform any servicing other than that 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.

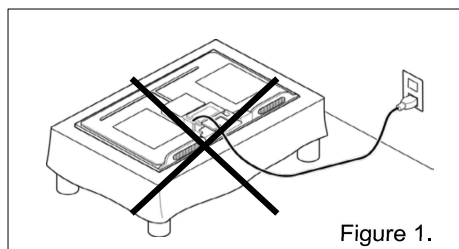
When repairing the LCD Panel, make sure you are grounded with a wrist band.

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.

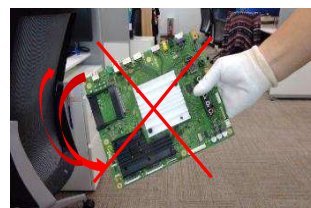
① Hold the board with both hands



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

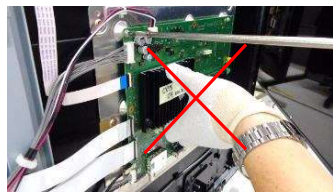


SAFETY NOTES

- 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

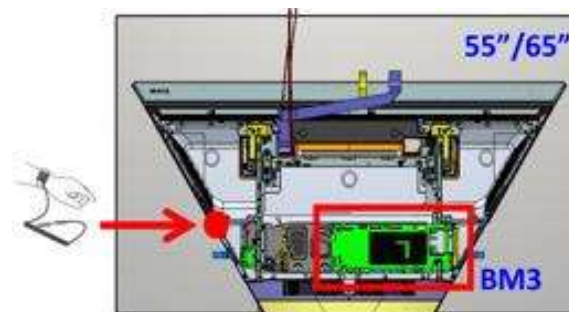


- ② Use ESD wrist-strap

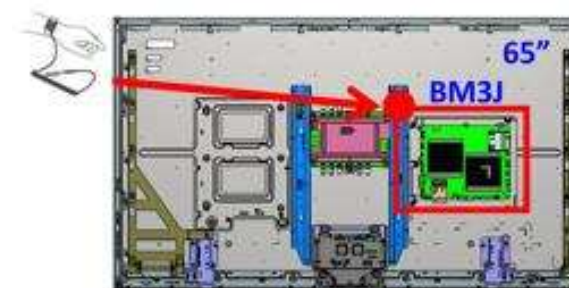


※Installation example of wrist-strap.

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 350uA peak).

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

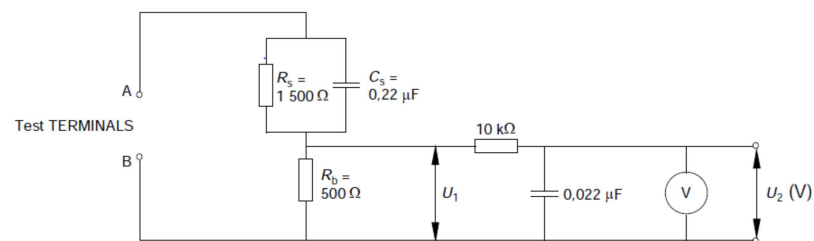


Figure 2 – Measuring network for Leakage Current

IEC 802/98

SAFETY NOTES

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

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

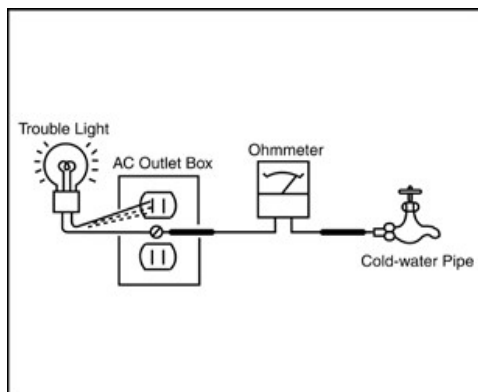


Figure 3. Checking for earth ground.

1-8. Lead Free Information

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



Figure 4: LF Logo

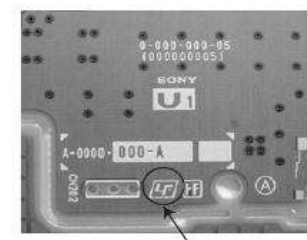


Figure 5: LF logo on circuit board

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

SELF DIAGNOSTIC FUNCTION

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

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

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

DIAGNOSTIC TEST INDICATORS

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

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

Self Diag. Quick Reference (LED blinking)

Smart Core RED LED blinking count	Error Item	Detection Items
2x	MAIN_POWER	<B/G> Main 12V over voltage
3x	DC_ALERT	<B/G> Main 5.0V failure
	AUD_ERR	<B/S> Audio amp. protection
4x	LD_ERR	None
	<i>BCM_ERR</i>	None
5x	<i>P_ID_ERR</i>	<B/T/P/G> <i>Panel ID EEPROM I2C No ACK (Also panel power failure is a suspect)</i>
6x	BACKLIGHT_ERR	<B/G/P/LD> Backlight failure
7x	TEMP_ERR	<B/H/P> Over temperature protection
8x	4KBE_ERR	None

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, \

<H>: H-board

SELF DIAGNOSTIC FUNCTION

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

Error Item	Detection Items
TCON_ERR	<T> T-CON device I2C communication failure
AUD_ERR_I2C	 Audio amp I2C communication failure
TEMP_ERR_I2C	<B/H> Temp sensor I2C communication failure
TU_DEMOD_I2C	 Tuner & Demodulator I2C communication failure

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

SELF DIAGNOSTIC FUNCTION

Retry Limitation by Remote / Power Key

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

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

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

*1) If $STDWN_OFFON_CNT \leq STDWN_RTRY_LIMIT$, and $STDWN_OFFON_CNT_MAIN_POWER \leq STDWN_RTRY_LIMIT_MAINPOWER$, you can turn the set on by remote/power key. At this time, if the error occurs again, the $STDWN_OFFON_CNT$ is incremented by 1.

*2) When the main micro operates normally for $STDWN_OFFON_CLR = 60$ minutes, $STDWN_OFFON_CNT$ and $STDWN_OFFON_CNT_MAIN_POWER$ are cleared.

TROUBLESHOOTING

Triage Chart

Before you make the service call...

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

RED DOT: Most likely defective part

BLUE TRIANGLE: Secondary possible defective part

GREEN SQUARE: Tertiary possible defective part

BLACK TEXT: Board that may correct the symptom

Reference	Symptoms - Shutdown. Power LED blinking red diagnostics sequences							Symptoms - no shutdown Error log record only								
	2	3	4	5	6	7	8	TU_DEMOD	TU_DEMOD_I2C	TCON_ERR	FRCTC_I2C	AUD_ERR_I2C	4KPQ_ERR_I2C	TEMP_ERR_I2C	EARC_ERR_I2C	AMB_ERR_I2C
Main Board	▲	●		■	■	●			●	▲		●		▲		
Power Board	●	▲		■	■											
Receiver Board														●		
Speaker		▲														
Wifi & BT Module																
Local Dimming Board (APHB 32")	●	▲		■	●					■						
V By One FFC				▲						▲						
Tcon				●						●						
LCD Panel				▲	●	▲				■						
Problem	Power	Power	Panel	Panel (Communication)	Panel (Backlight)	TEMP	4KBE									
		Audio	LD	Tcon												

TROUBLESHOOTING

Triage Chart

Before you make the service call...

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

RED DOT: Most likely defective part

BLUE TRIANGLE: Secondary possible defective part

GREEN SQUARE: Tertiary possible defective part

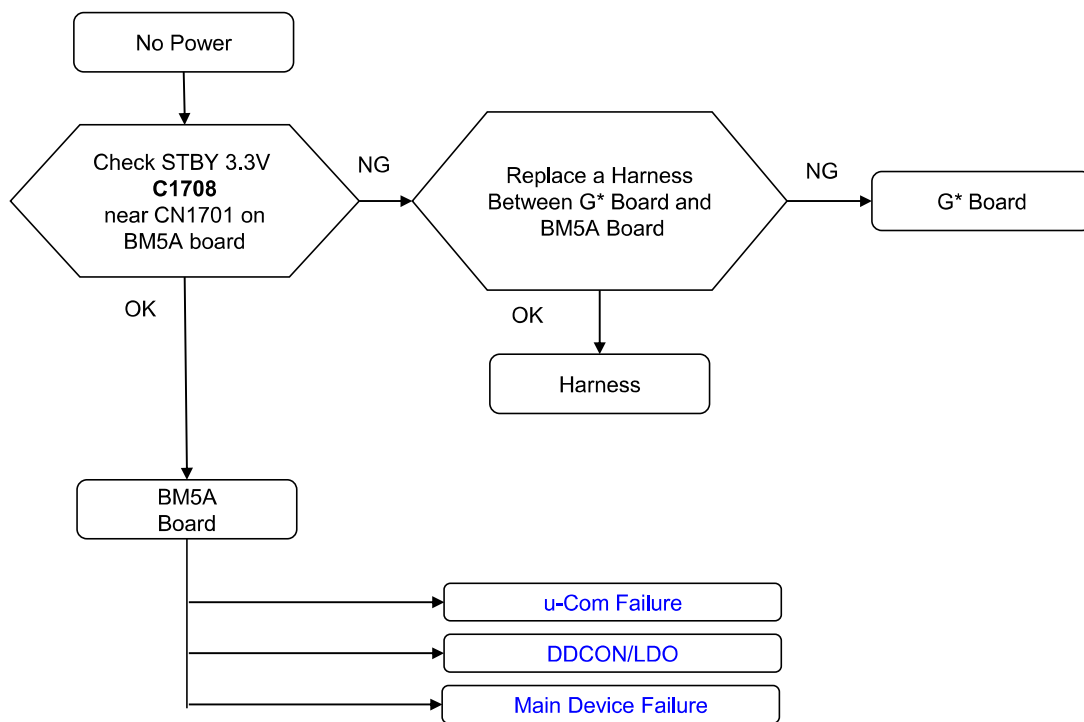
BLACK TEXT: Board that may correct the symptom

Reference	No Power	Video - missing or distorted				Remote	Network	Audio	Smart Core	Bluetooth (BT)
	No White Power LED & does not reponse to remote (Dead Set)	Stationary colored lines or dots	No video One of Inputs	NO RF input	No video all Inputs	No Remote	Cannot connect to Wireless Network	No Audio	Smart Core no LED (Set is still alive)	Bluetooth / One Step Remote (OSR) can't connect
Main Board	▲	▲	●	●	●	▲	▲	●	▲	▲
Power Board	●				▲			▲		
Receiver Board	▲					●			●	
Speaker								●		
Wifi & BT Module							●			●
Local Dimming Board (APHB 32")	●				▲			▲		
V By One FFC		▲			▲					
Tcon		▲			■					
LCD Panel		●			■					
Problem										

TROUBLESHOOTING

1.0 No Power - PSU

BM5A Board Model



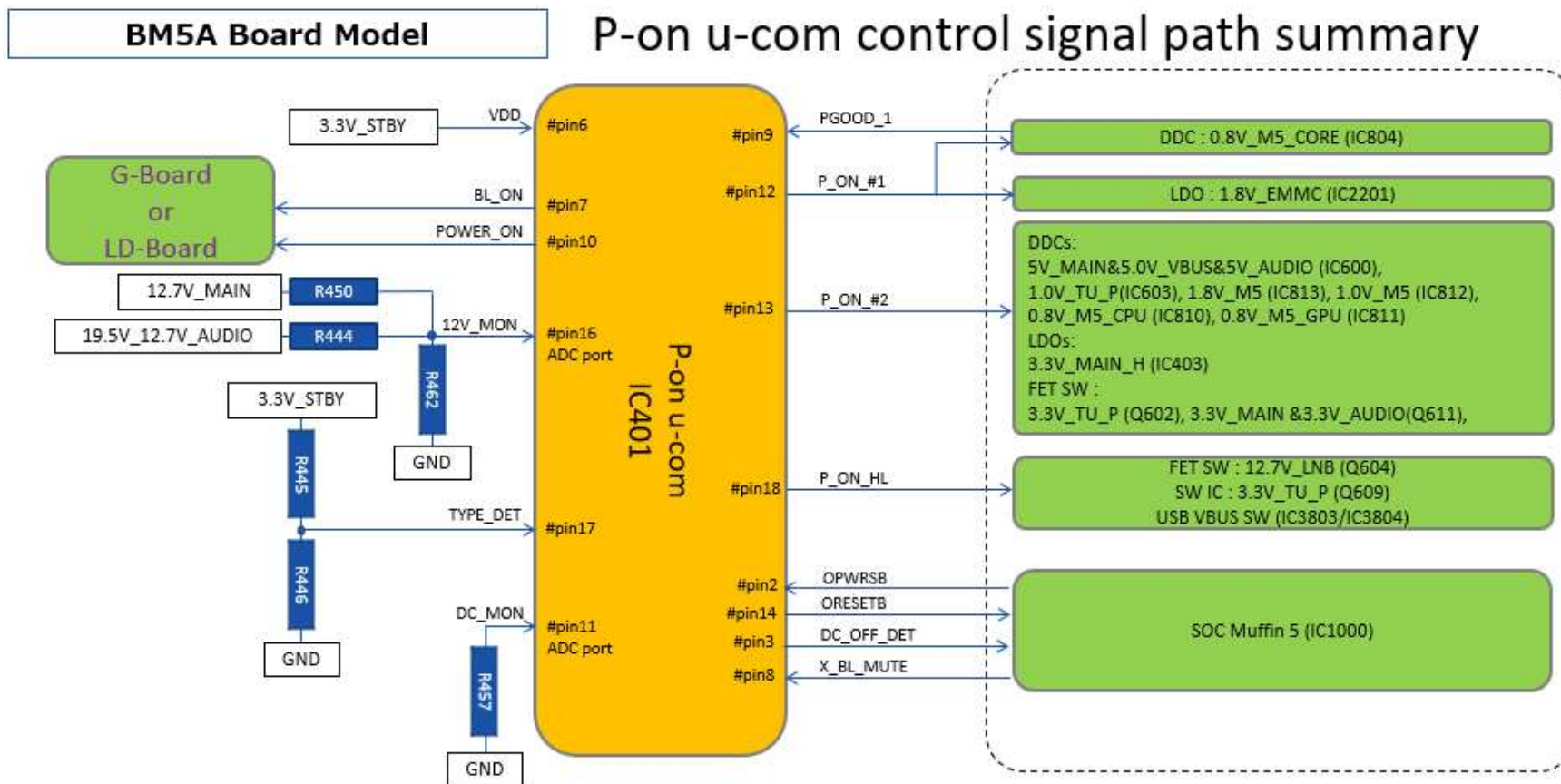
TROUBLESHOOTING

Checking Point (BM5A)



TROUBLESHOOTING

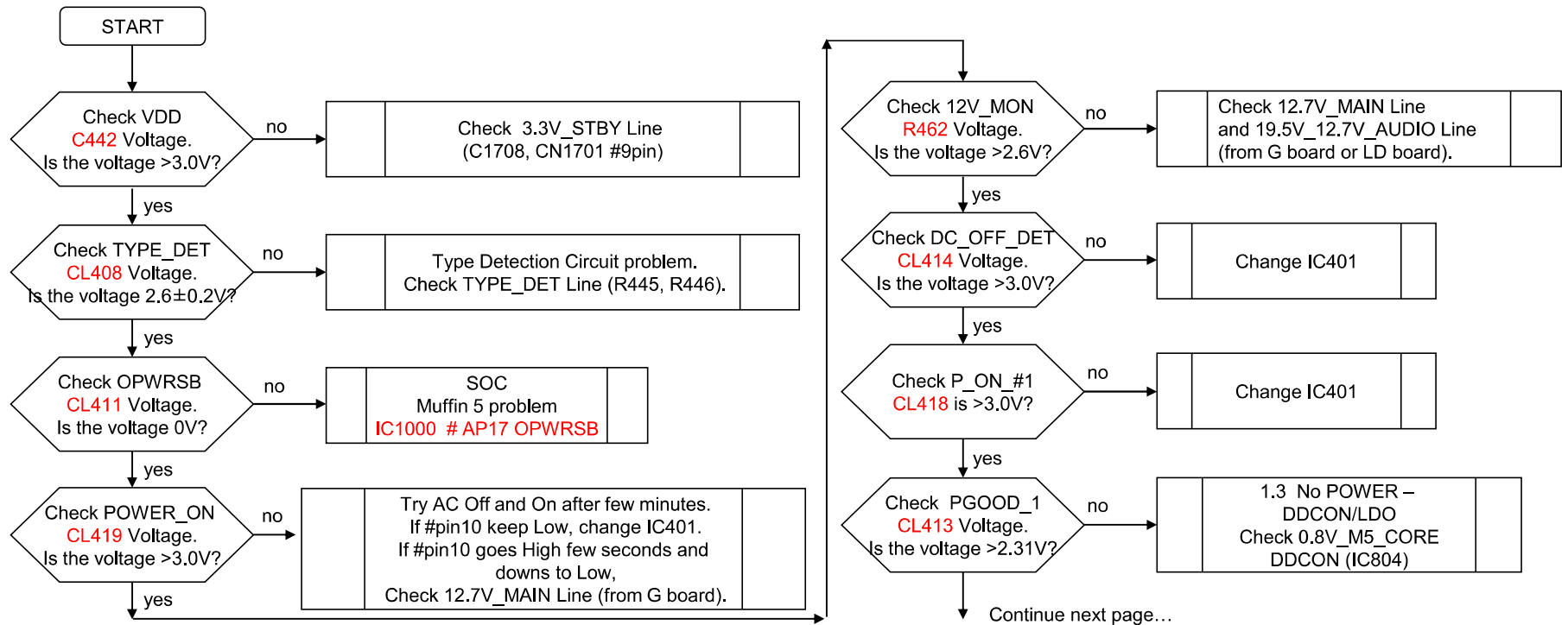
1.2 No Power u-com Failure



TROUBLESHOOTING

1.2 No Power u-com Failure

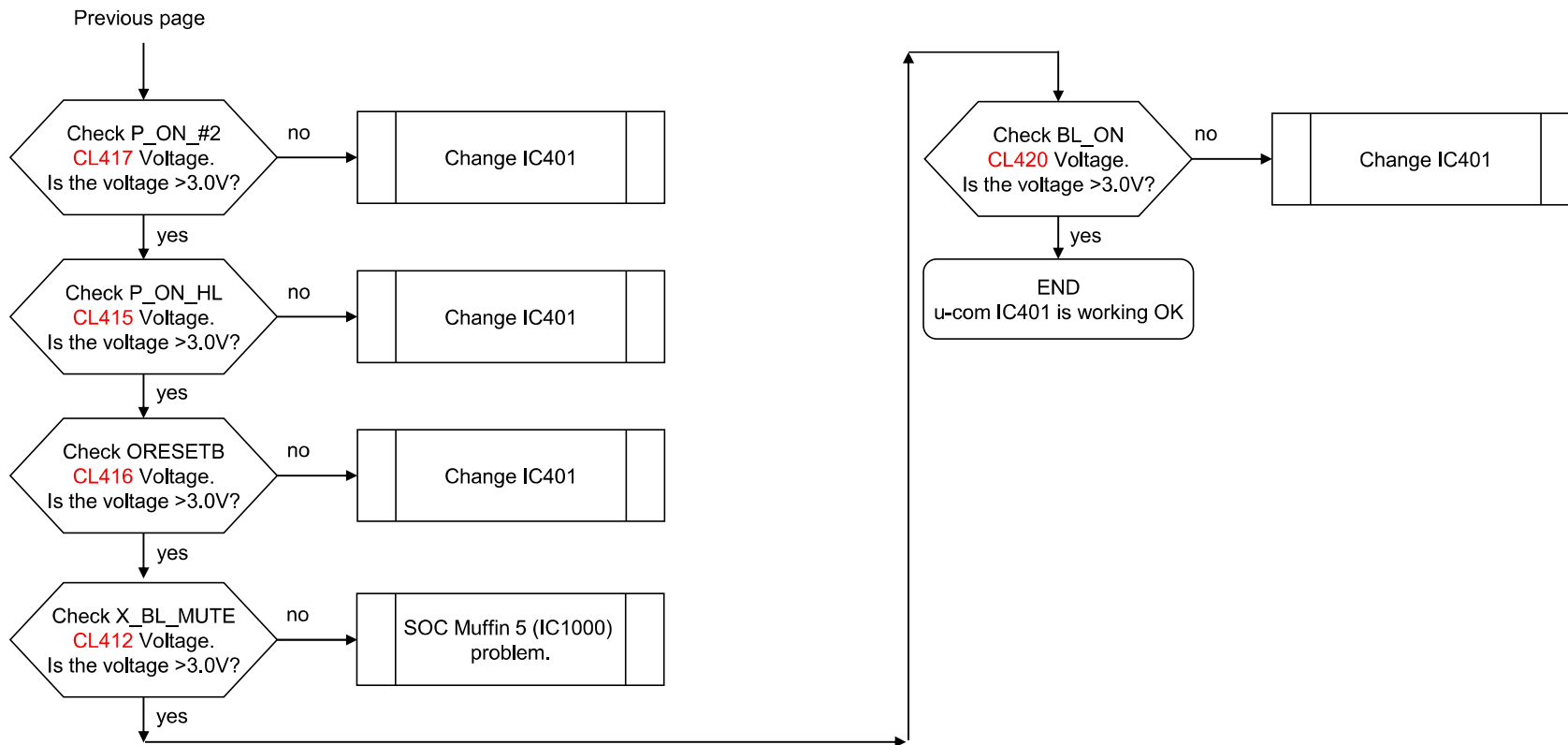
BM5A Board Model



TROUBLESHOOTING

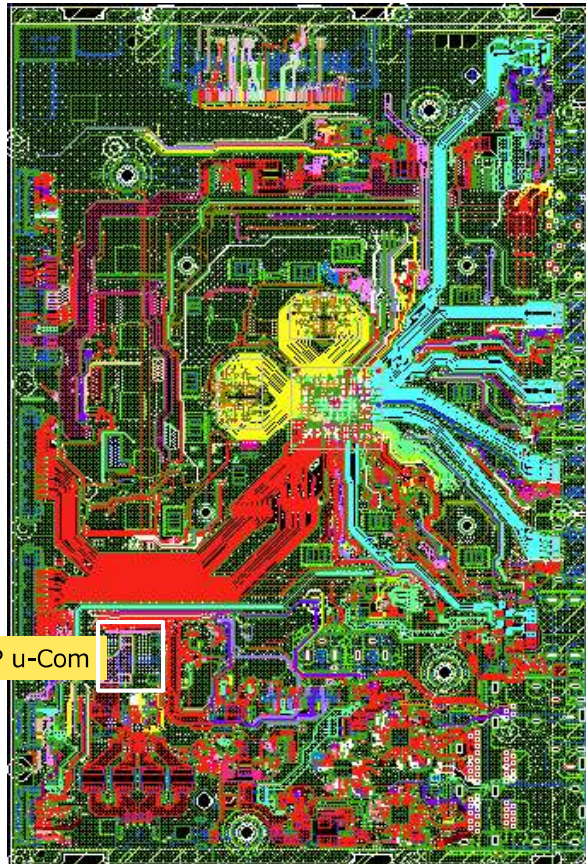
1.2 No Power u-com Failure

BM5A Board Model

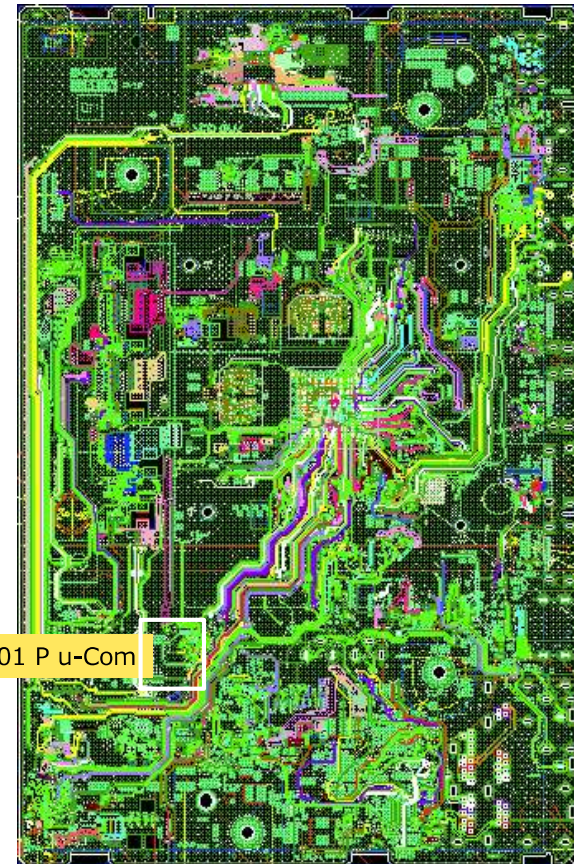


TROUBLESHOOTING

Board View (BM5A)



Top Side



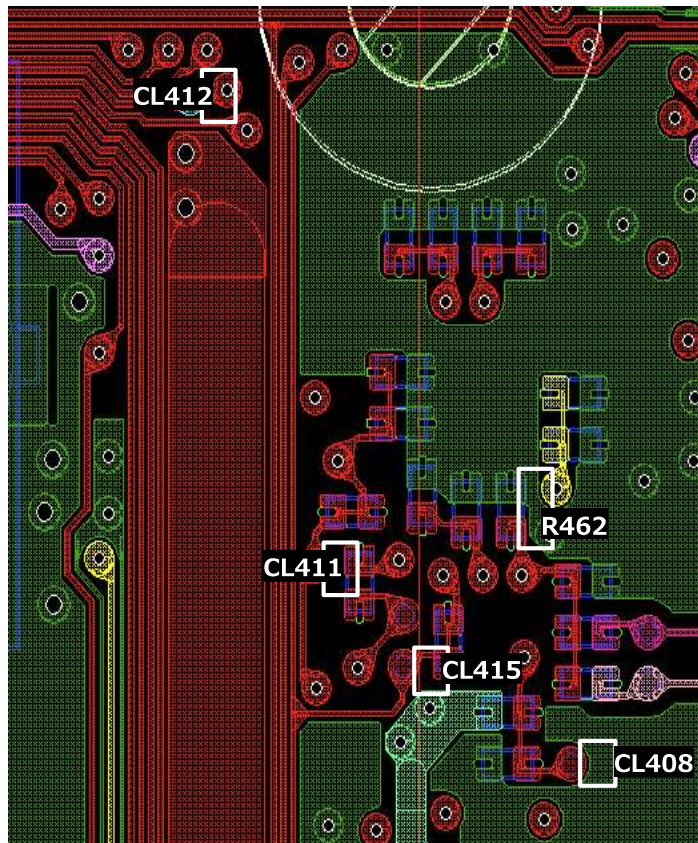
B-Side

IC401 P u-Com

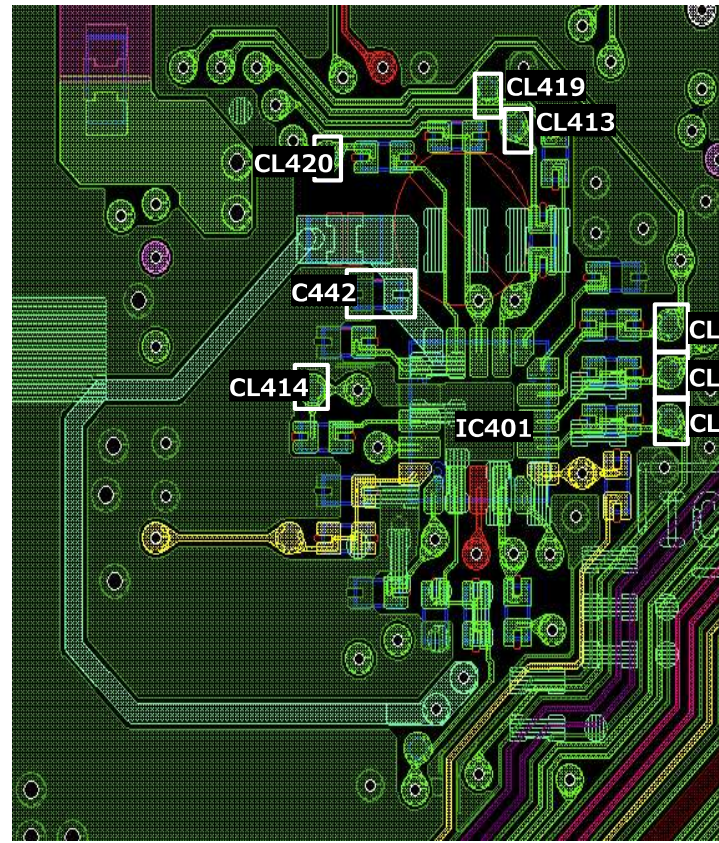
IC401 P u-Com

TROUBLESHOOTING

Checking Point (BM5A)



Top Side



B-Side

TROUBLESHOOTING

1.3 No Power DDCON/LDO

BM5A Board Model

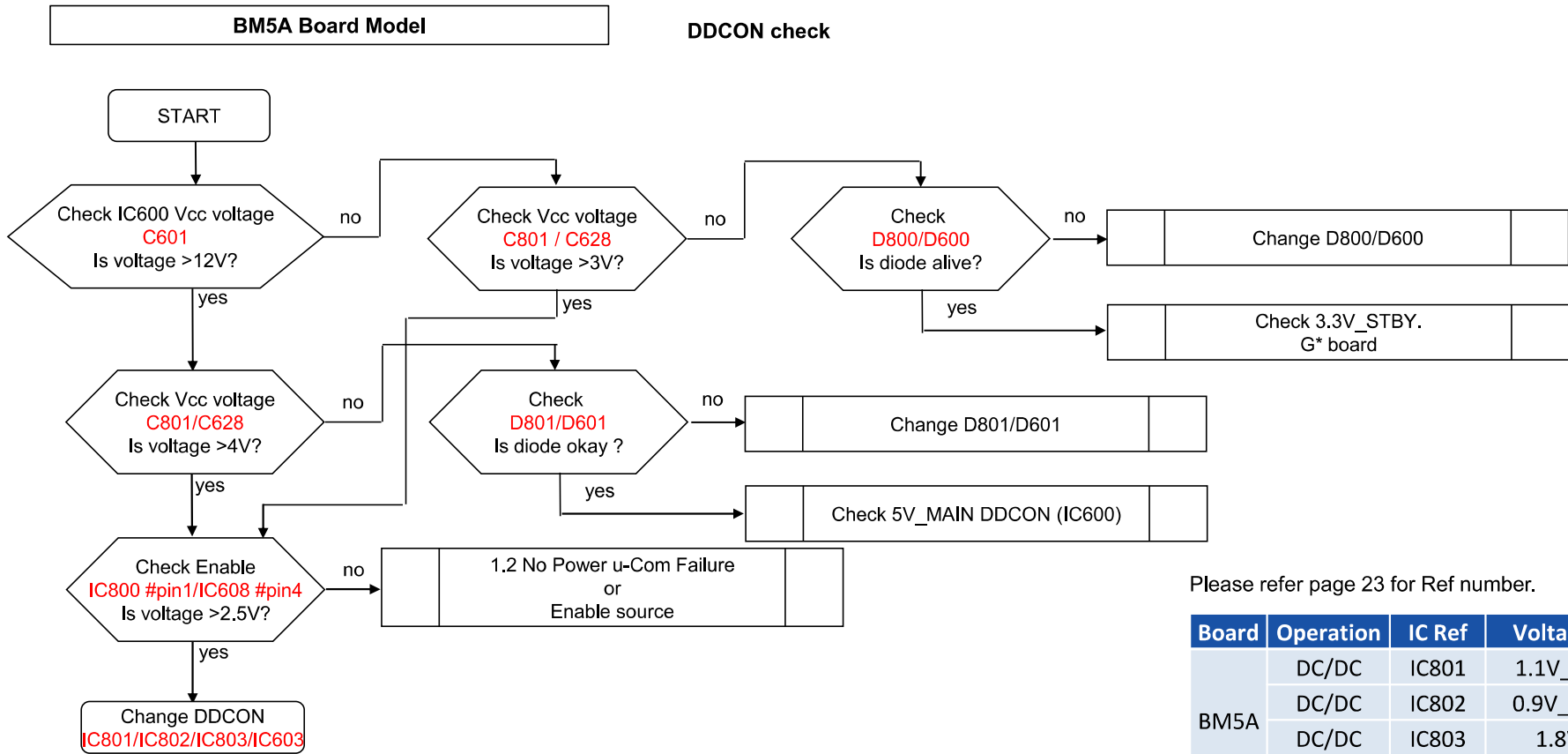
Check Item Summary

Board	Operation	IC Ref	Voltage supply	Output ref.	Enable pin	Enable source	Fuse	Vcc ref.
BM5A	DC/DC	IC414	5.0V_STBY_H	C482	R545	Vin	-	C479
	LDO	IC403	3.3V_MAIN_H	C416	IC403 Pin#3	P_ON_#2	-	C415
	DC/DC	IC600	5V_MAIN/5.0V_VBUS/5V_AUDIO	C610	IC600 Pin#15	P_ON_#2	F600	C601
	DC/DC	IC607	3.3V_DDC_OUT	C656	IC607 Pin#11	Vin	F604	C665
	DC/DC	IC603	1.0V_TU_P	C630	IC603 Pin#4	P_ON_#2 or IC1000 #AL18 (EWS_PWR_ON)	-	C628
	DC/DC	IC801	1.1V_M5_DDR	C806	IC801 Pin#4	R804/R907 (3.3V_STBY)	-	C801
	DC/DC	IC802	0.9V_M5_STBY	C809	IC802 Pin#4	R804/R907 (3.3V_STBY)	-	C807
	DC/DC	IC803	1.8V_STBY	C812	IC803 Pin#4	R804 (3.3V_STBY)	-	C810
	DC/DC	IC804	0.8V_M5_CORE	C846	IC804 Pin#8	P_ON_#1	F802	C831
	LDO	IC806	1.8V_M5_ET_STBY	C818	IC806 Pin#3	IC1000 #AN19 (ETHER_PWR_EN)	-	C817
	DC/DC	IC813	1.8V_M5	C904	IC813 Pin#4	P_ON_#2	F807	C902
	DC/DC	IC812	1.0V_M5	C898	IC812 Pin#4	P_ON_#2	F805	C896
	LDO	IC809	3.3V_M5_STBY	C816	R917	R917 (3.3V_STBY)	-	C815
	DC/DC	IC810	0.8V_M5_CPU	C861	IC810 Pin#19	P_ON_#2	F803	C855
	DC/DC	IC811	0.8V_M5_GPU	C874	IC811 Pin#19	P_ON_#2	F804	C868
LDO	IC2201	1.8V_EMMC	C2216	IC2201 Pin#3	P_ON_#1 or ORESETB	-	C2214	

P_ON_#1 : P-on u-com IC401 #pin12
 P_ON_#2 : P-on u-com IC401 #pin13
 ORESETB : P-on u-com IC401 #pin14

TROUBLESHOOTING

1.3 No Power DDCON/LDO



Please refer page 23 for Ref number.

Board	Operation	IC Ref	Voltage supply
BM5A	DC/DC	IC801	1.1V_M5_DDR
	DC/DC	IC802	0.9V_M5_STBY
	DC/DC	IC803	1.8V_STBY
	DC/DC	IC603	1.0V_TU_P

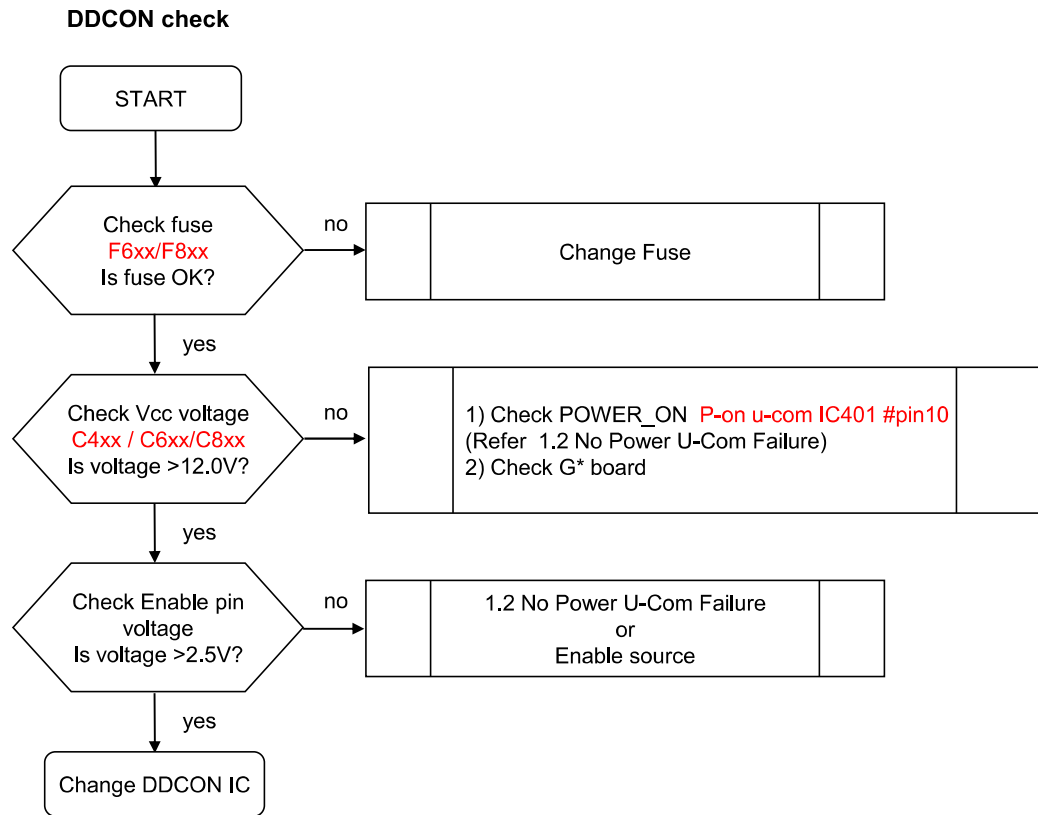
TROUBLESHOOTING

1.3 No Power DDCON/LDO

BM5A Board Model

Please refer page 23 for Ref number.

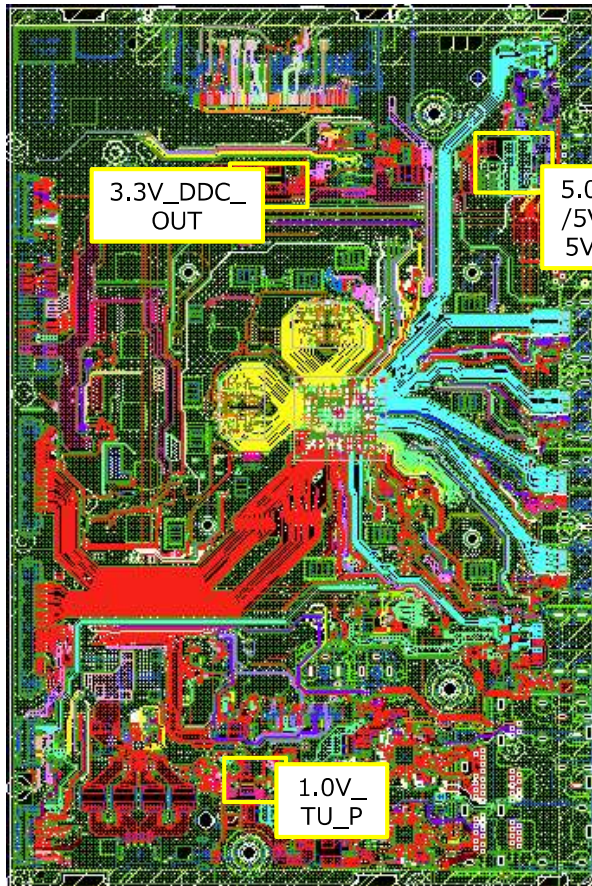
Board	Operation	IC Ref	Voltage supply
BM5A	DC/DC	IC414	5.0V_STBY_H
	DC/DC	IC600	5V_MAIN/5V_AUDIO
	DC/DC	IC607	3.3V_DDC_OUT
	DC/DC	IC804	0.8V_M5_CORE
	DC/DC	IC813	1.8V_M5
	DC/DC	IC812	1.0V_M5
	DC/DC	IC810	0.8V_M5_CPU
	DC/DC	IC811	0.8V_M5_GPU



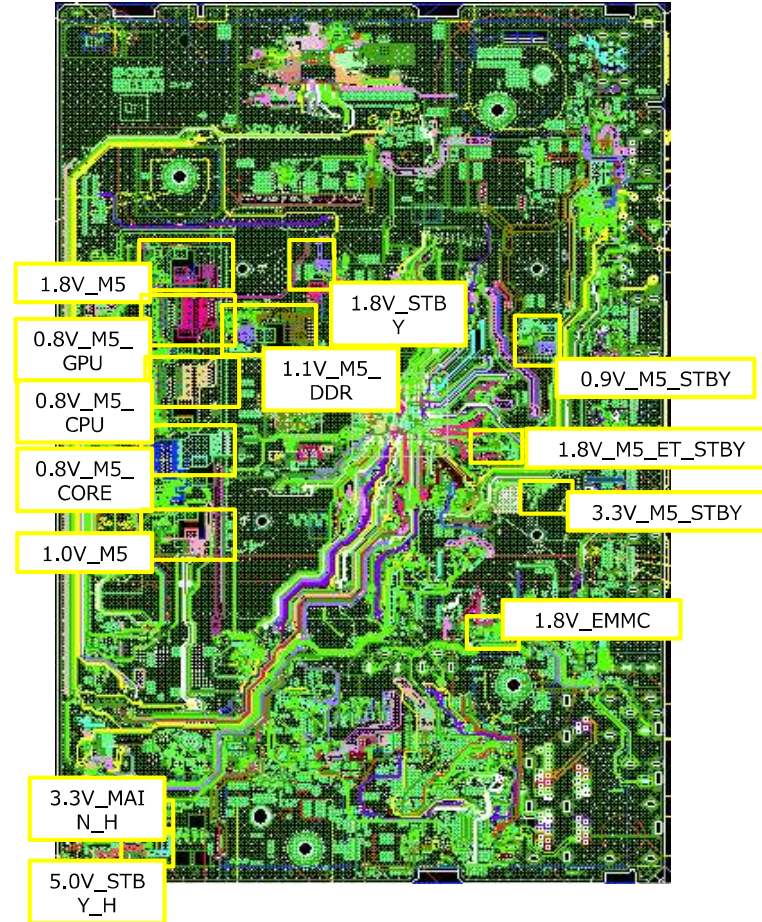
TROUBLESHOOTING

Board View (BM5A)

The checking point for each voltage is start on next page



Top Side



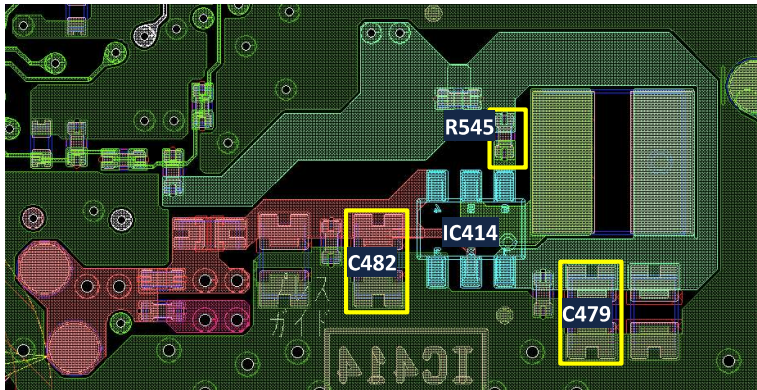
B Side

TROUBLESHOOTING

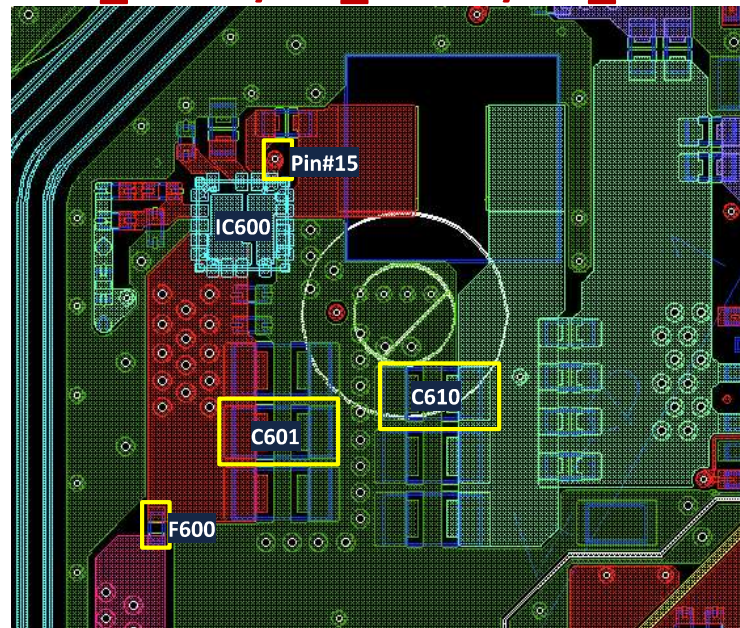
Checking Point (BM5A)

Please refer page 26 for overall board view

5.0V_STBY_H
B-Side



5.0V_VBUS/5V_MAIN/5V_AUDIO



Top Side

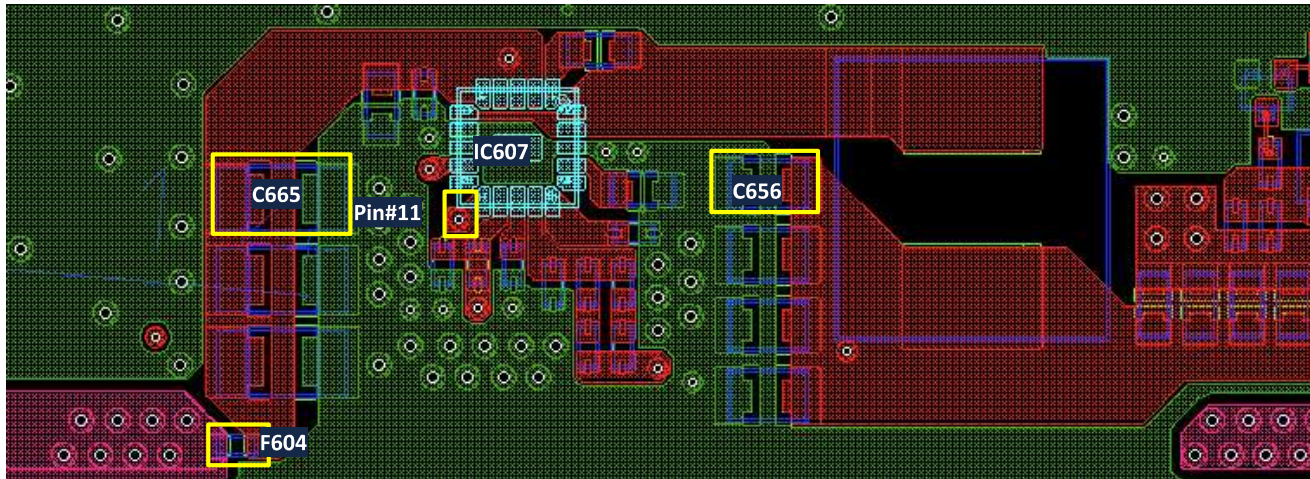
TROUBLESHOOTING

Checking Point (BM5A)

Please refer page 26 for overall board view

3.3V_DDC_OUT

Top Side

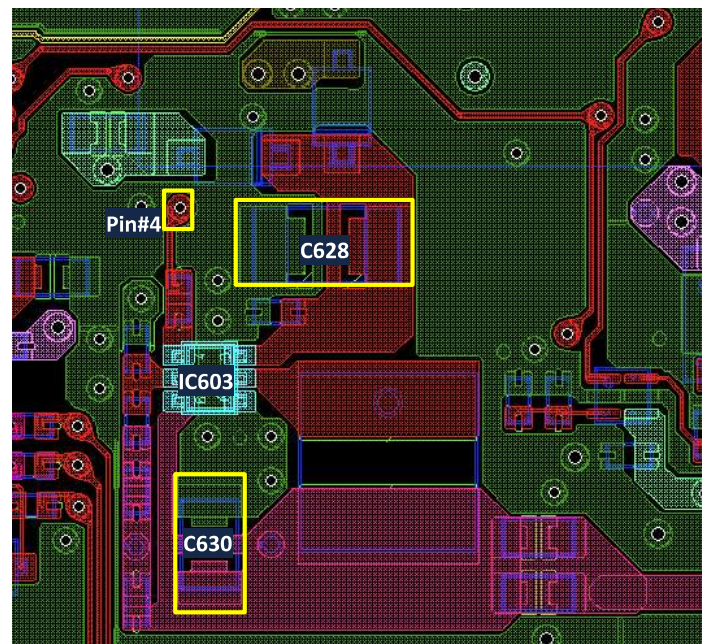


TROUBLESHOOTING

Checking Point (BM5A)

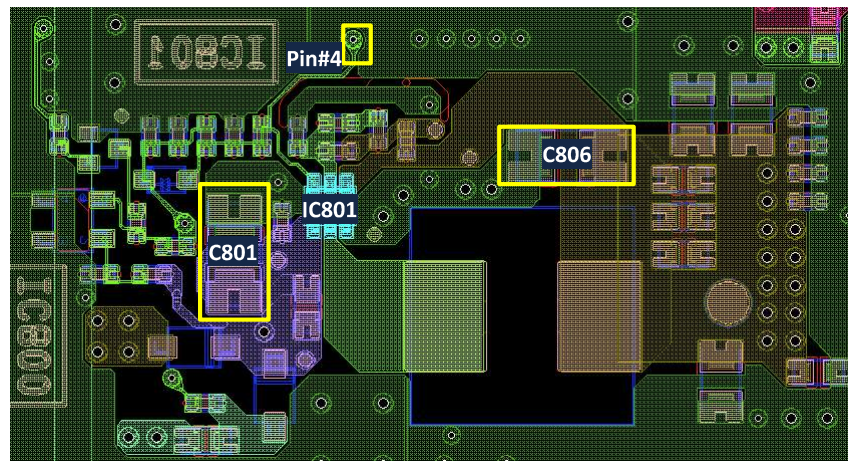
Please refer page 26 for overall board view

1.0V_TU_P
Top Side



1.1V_M5_DDR

B-Side



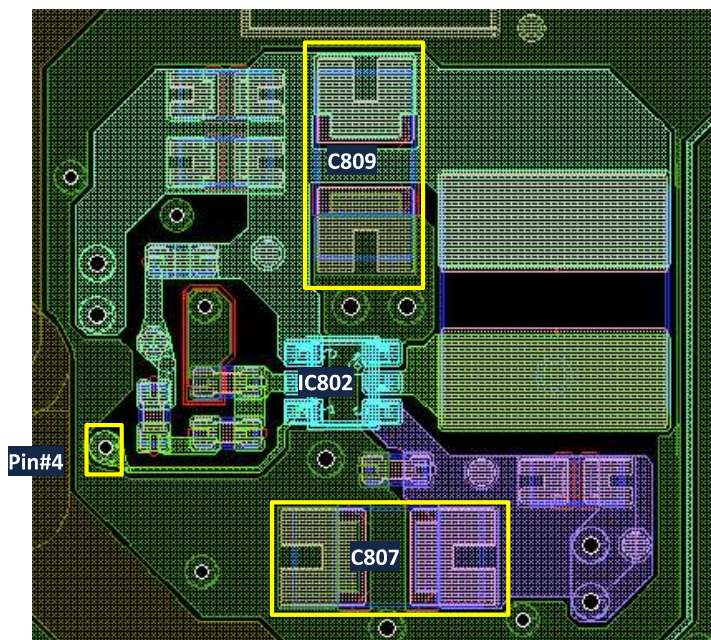
TROUBLESHOOTING

Checking Point (BM5A)

Please refer page 26 for overall board view

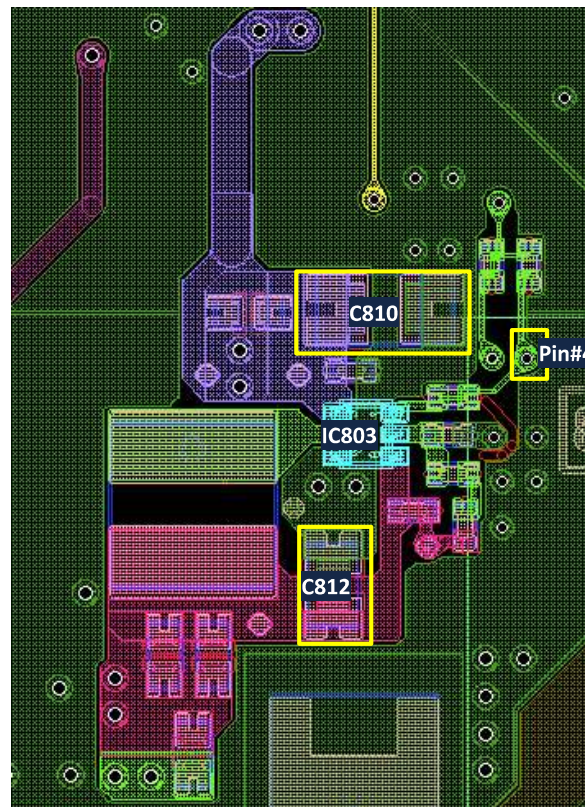
0.9V_M5_STBY

B-Side



1.8V_STBY

B-Side



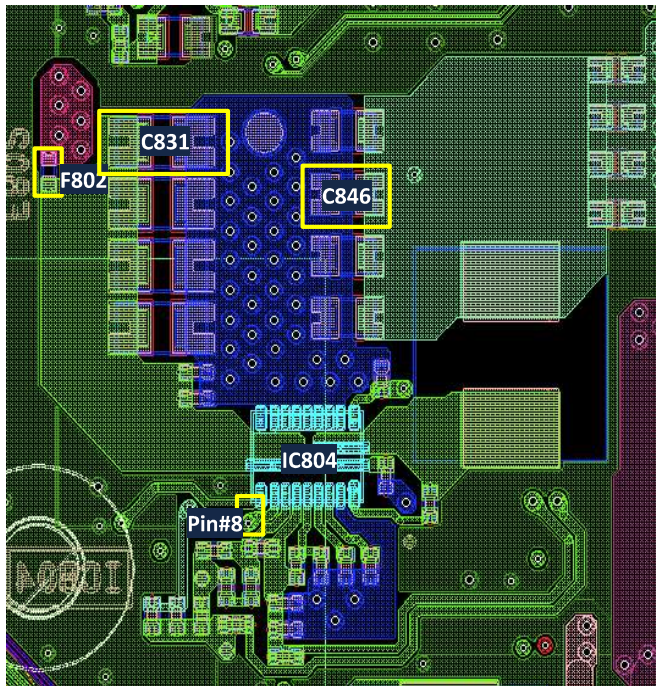
TROUBLESHOOTING

Checking Point (BM5A)

Please refer page 26 for overall board view

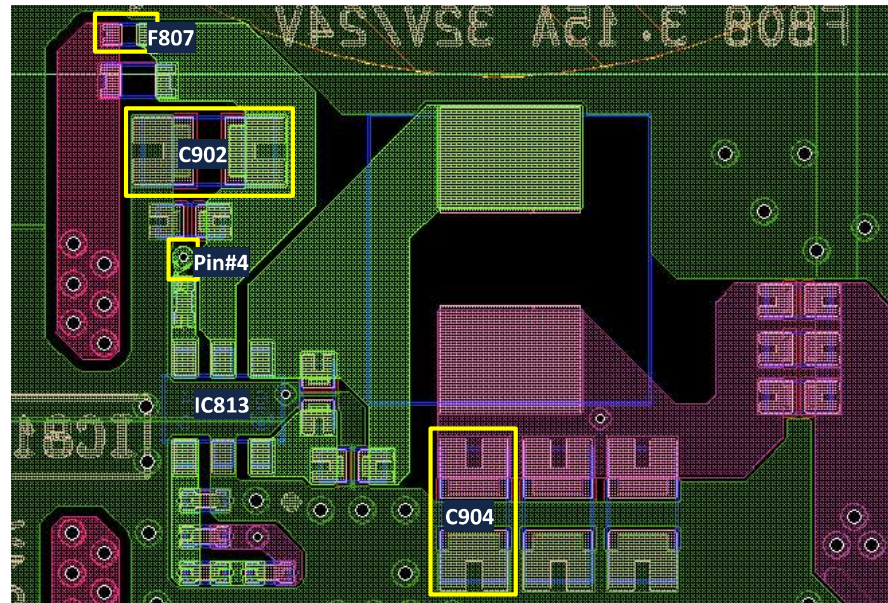
0.8V_M5_CORE

B-Side



1.8V_M5

B-Side



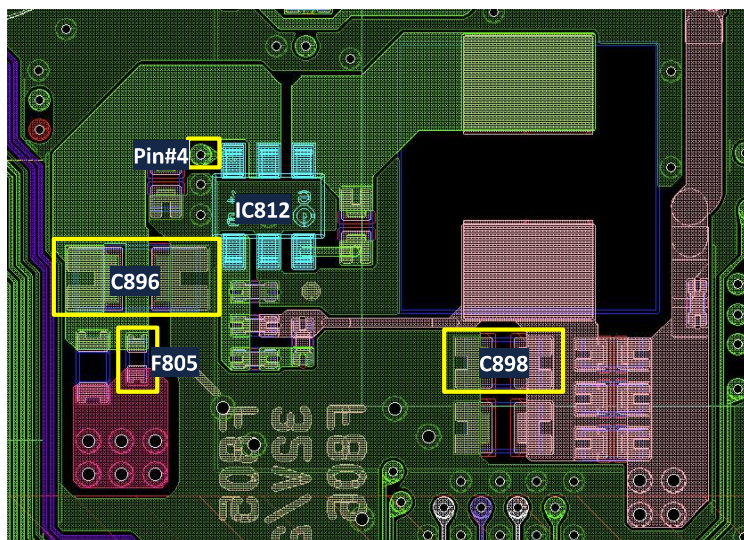
TROUBLESHOOTING

Checking Point (BM5A)

Please refer page 26 for overall board view

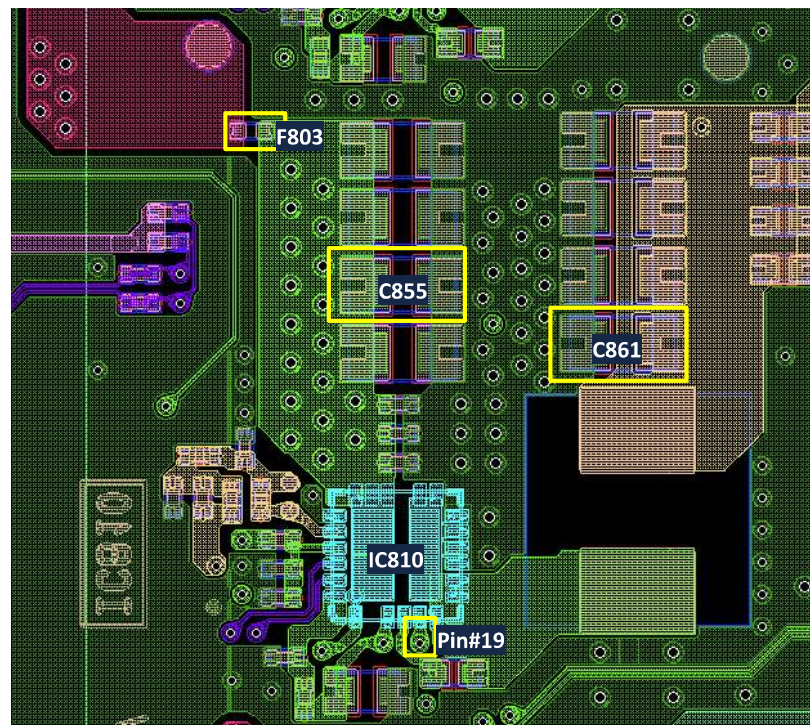
1.0V_M5

B-Side



0.8V_M5_CPU

B-Side



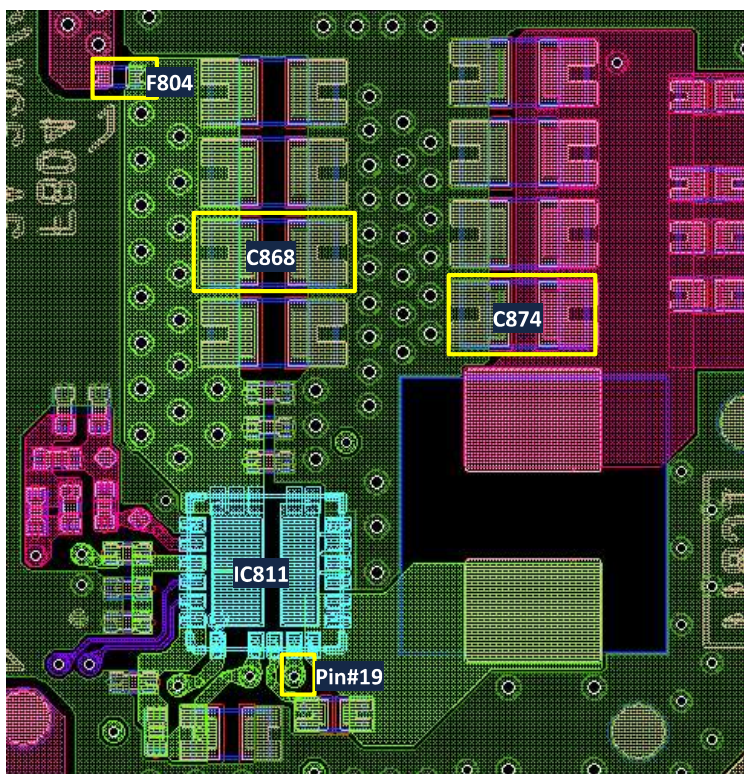
TROUBLESHOOTING

Checking Point (BM5A)

Please refer page 26 for overall board view

0.8V_M5_GPU

B-Side



TROUBLESHOOTING

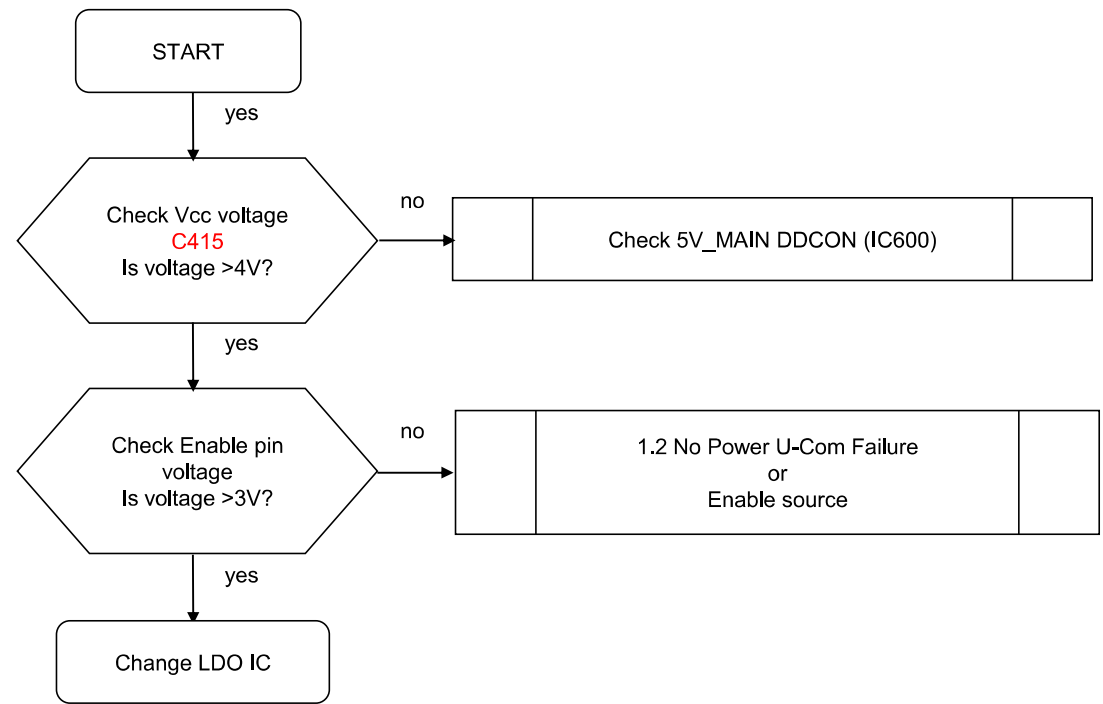
1.3 No Power DDCON / LDO

BM5A Board Model

Please refer page 23 for Ref number.

Board	Operation	IC Ref	Voltage supply
BM5A	LDO	IC403	3.3V_MAIN_H

LDO check



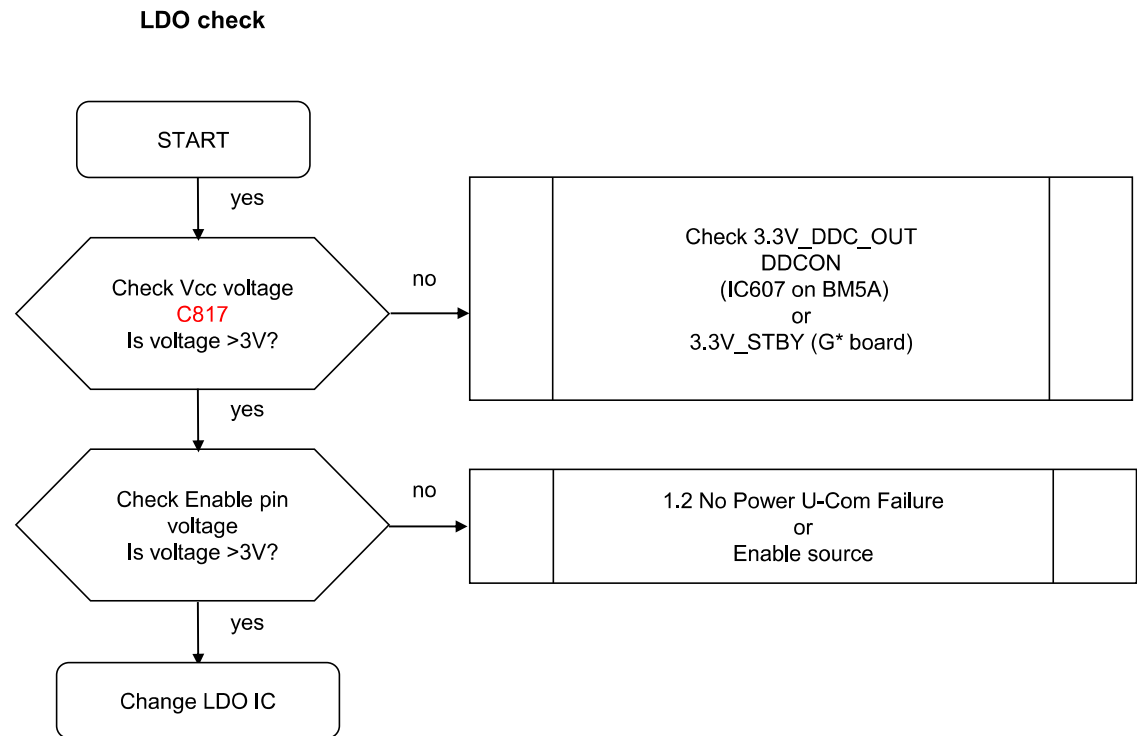
TROUBLESHOOTING

1.3 No Power DDCON / LDO

BM5A Board Model

Please refer page 23 for Ref number.

Board	Operation	IC Ref	Voltage supply
BM5A	LDO	IC806	1.8V_M5_ET_STBY



TROUBLESHOOTING

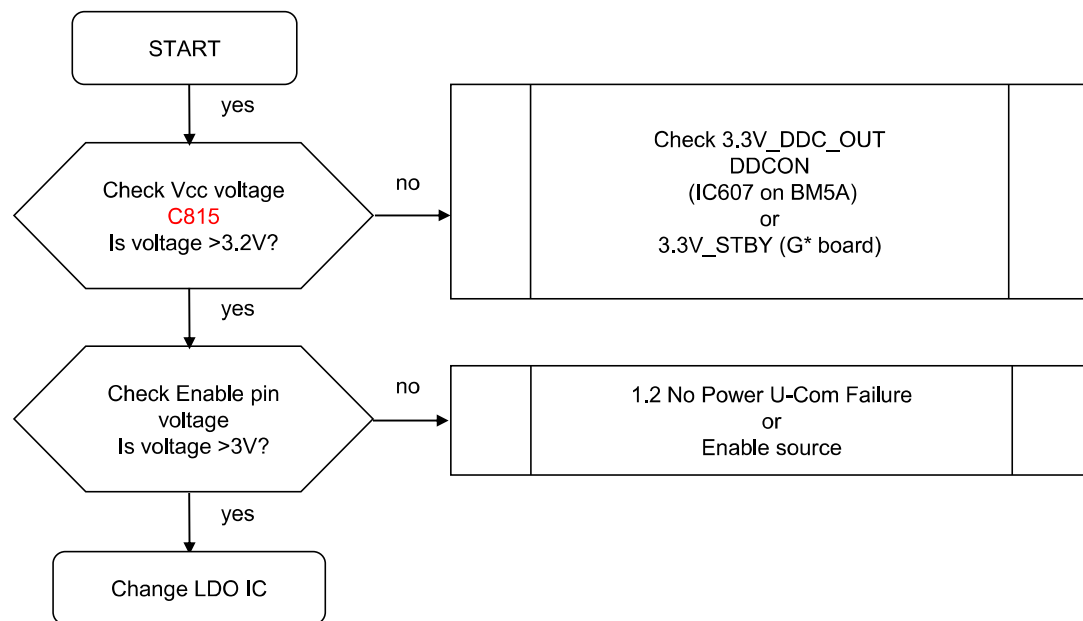
1.3 No Power DDCON / LDO

BM5A Board Model

Please refer page 23 for Ref number.

Board	Operation	IC Ref	Voltage supply
BM5A	LDO	IC809	3.3V_M5_STBY

LDO check

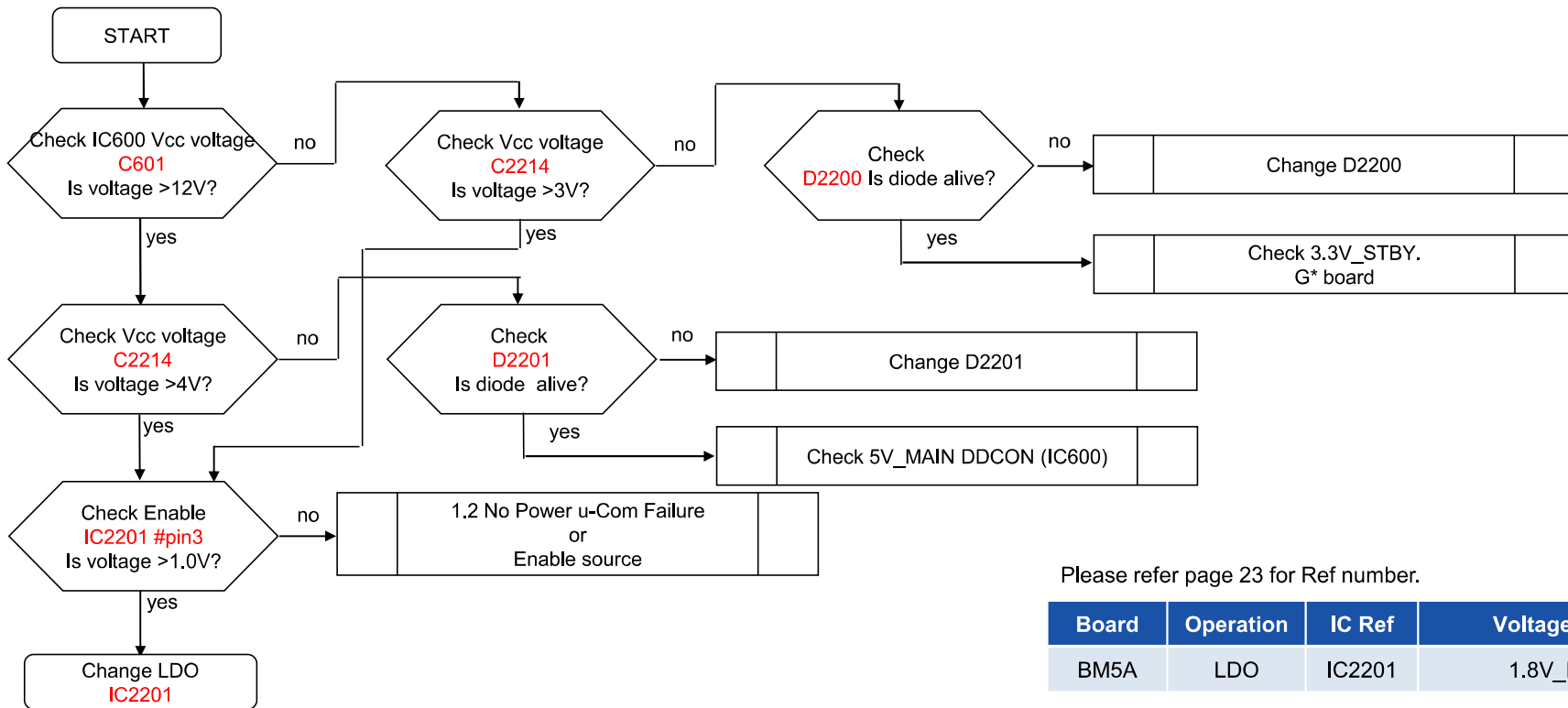


TROUBLESHOOTING

1.3 No Power DDCON/LDO

BM5A Board Model

LDO check



Please refer page 23 for Ref number.

Board	Operation	IC Ref	Voltage supply
BM5A	LDO	IC2201	1.8V_EMMC

TROUBLESHOOTING

1.3 No Power DDCON/LDO

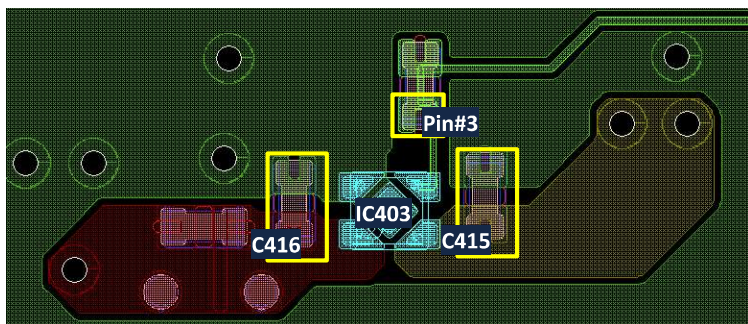
Please refer page 26 for overall board view

BM5A Board Model

LDO check

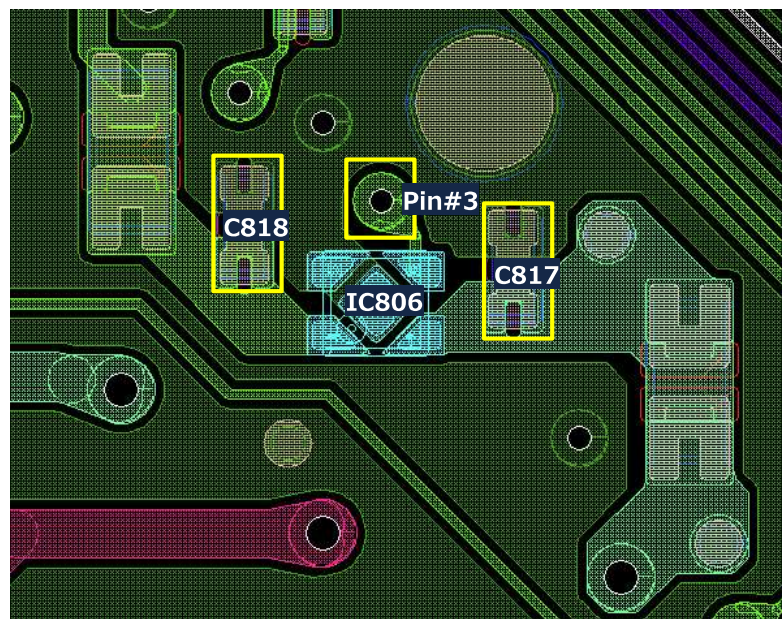
3.3V_MAIN_H

B-Side



1.8V_M5_ET_STBY

B-Side



TROUBLESHOOTING

1.3 No Power DDCON/LDO

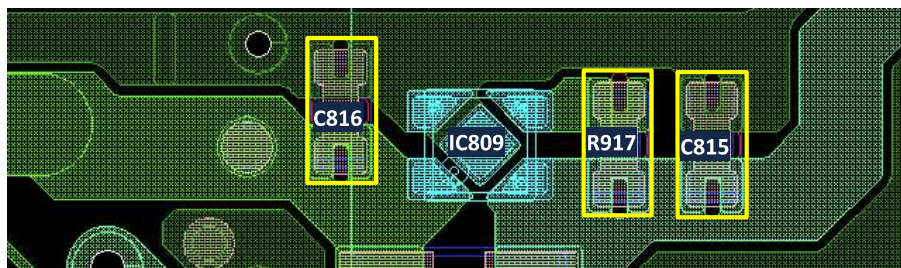
Please refer page 26 for overall board view

BM5A Board Model

LDO check

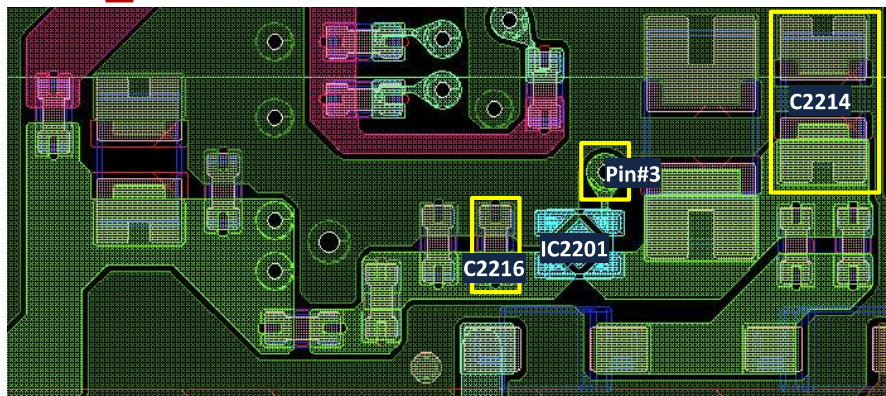
3.3V_M5_STBY

B-Side



1.8V_EMMC

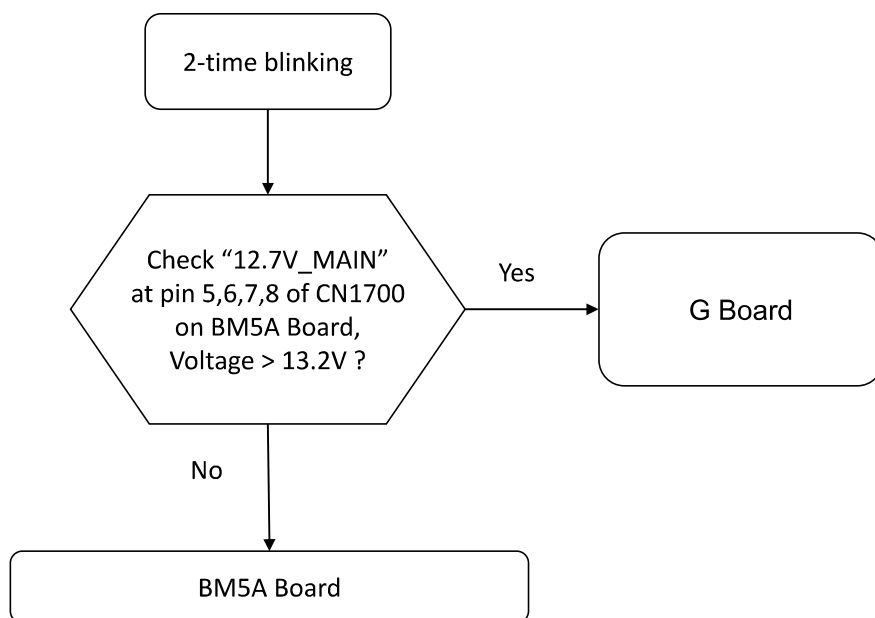
B-Side



TROUBLESHOOTING

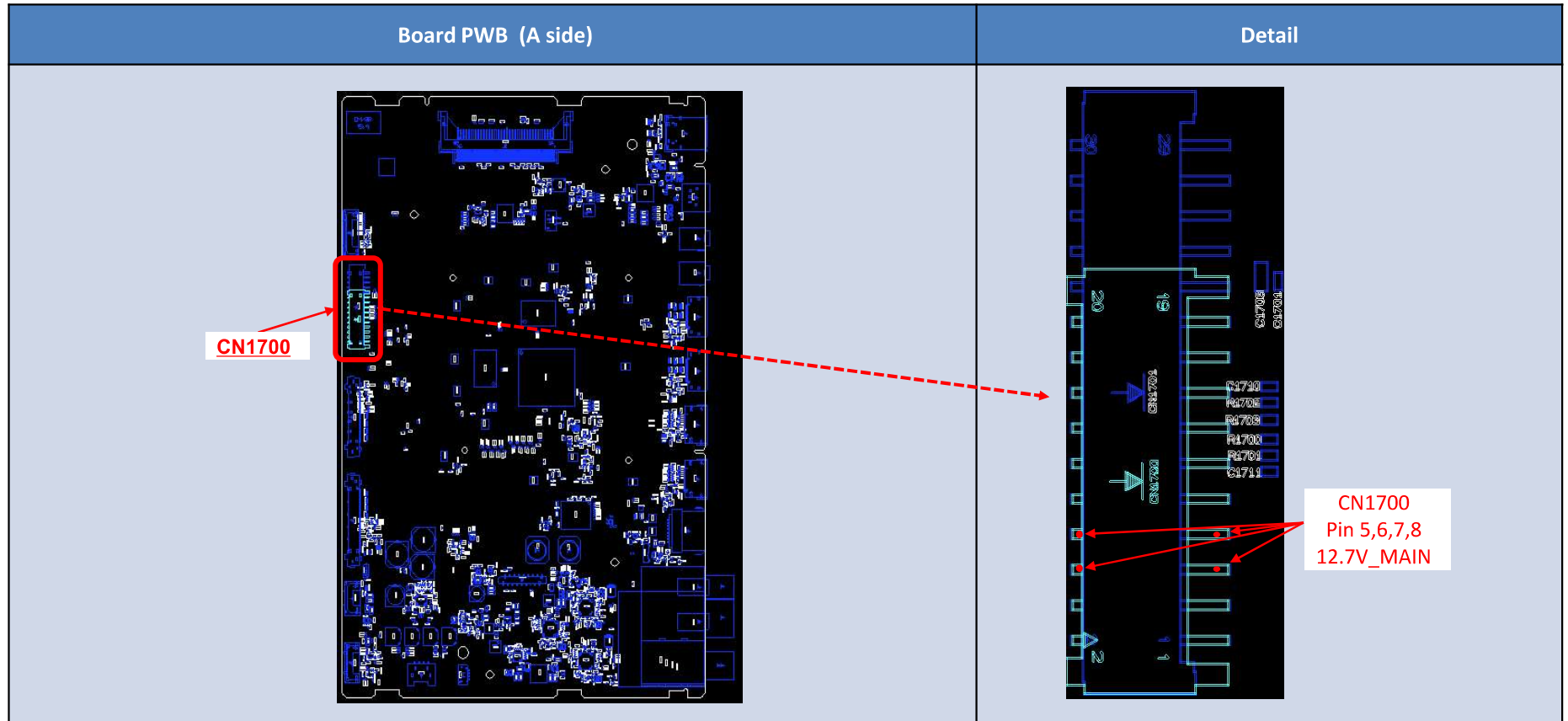
2.0 LED Blinking: 2x (Main power Error)

BM5A/BM5ST



TROUBLESHOOTING

Check point for BM5A



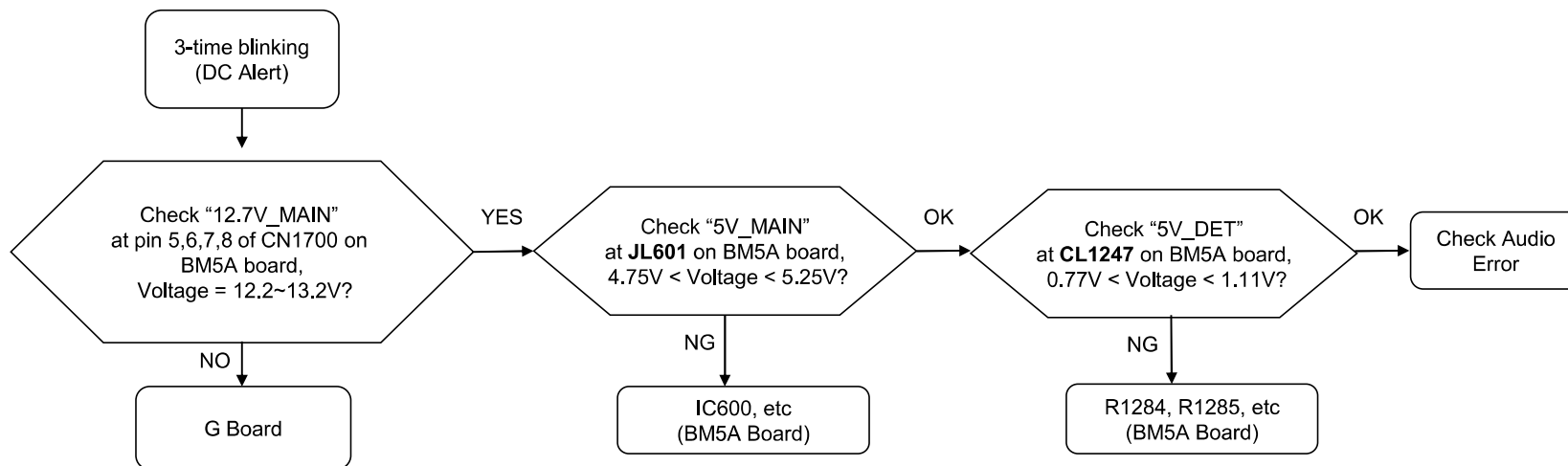
TROUBLESHOOTING

2.1 Detail of 3x LED Blinking

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

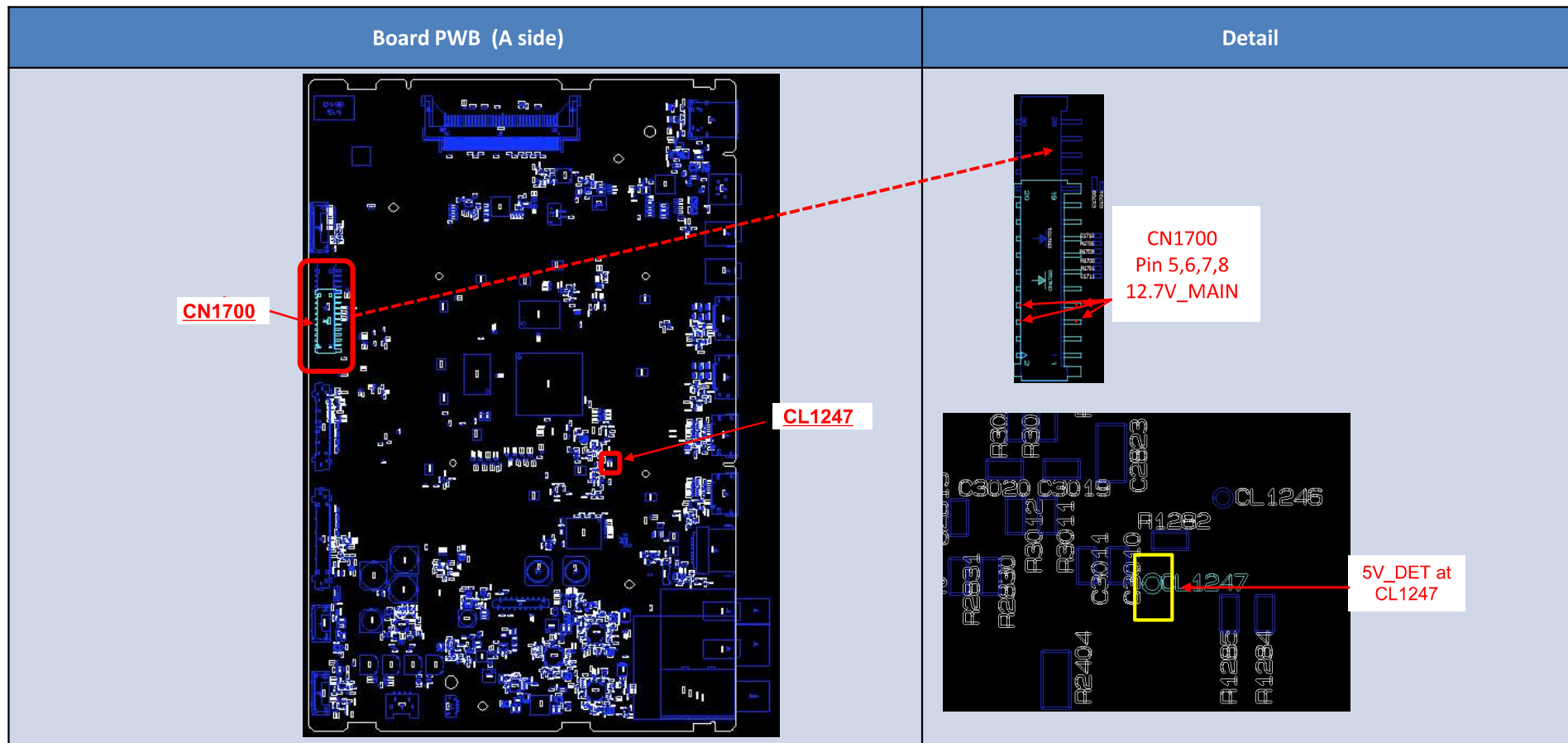
TROUBLESHOOTING

2.1 LED Blinking: 3x (DC Alert)



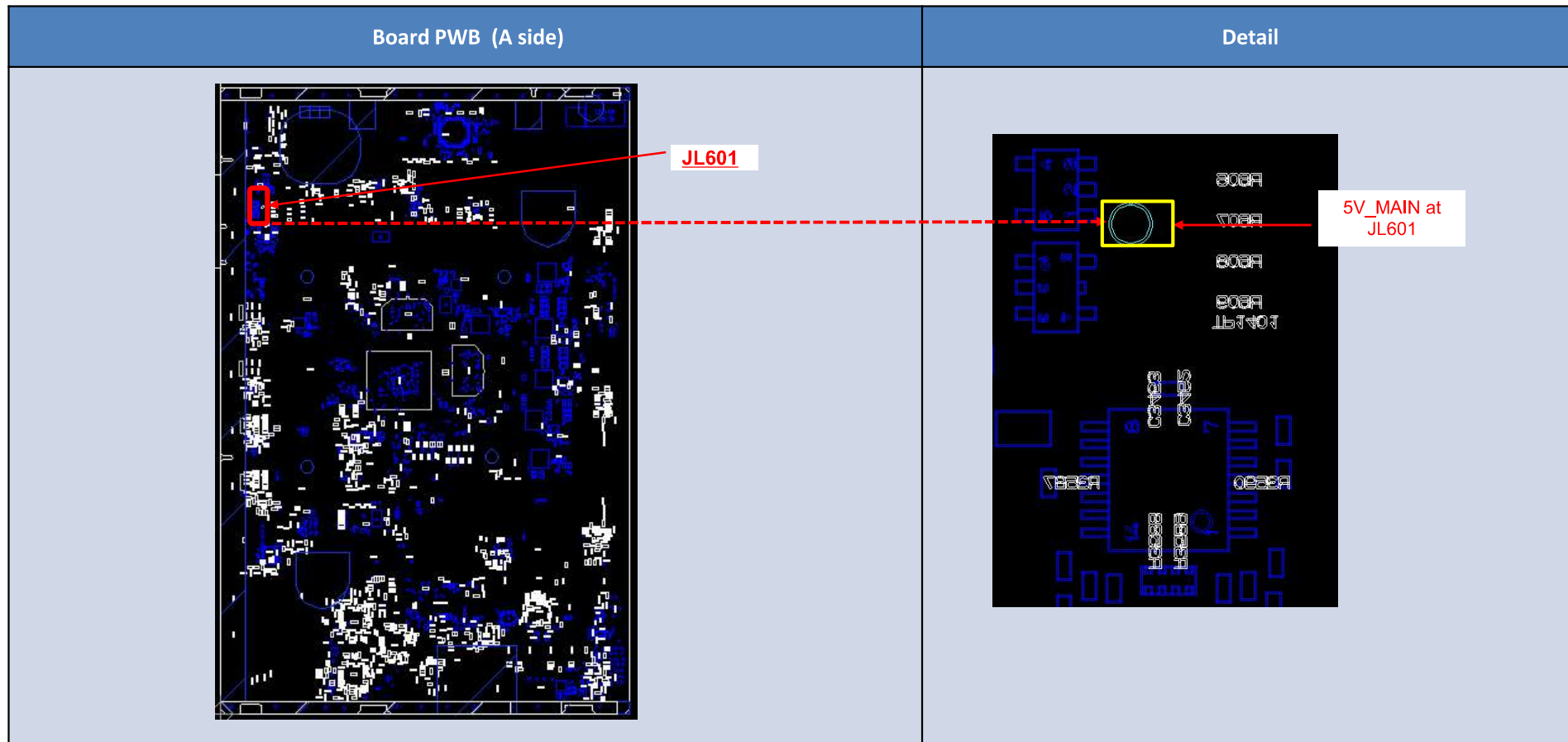
TROUBLESHOOTING

Check point for BM5A



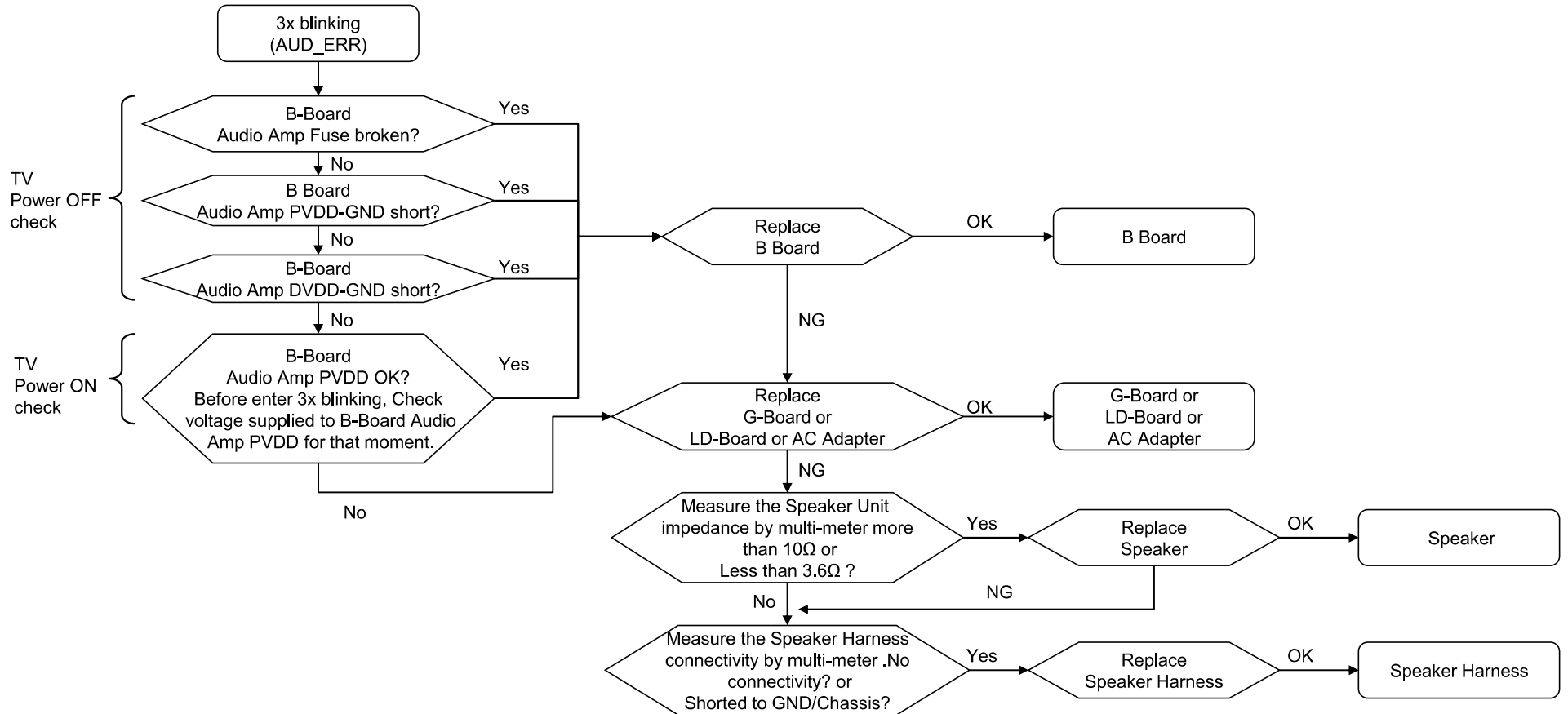
TROUBLESHOOTING

Check point for BM5A



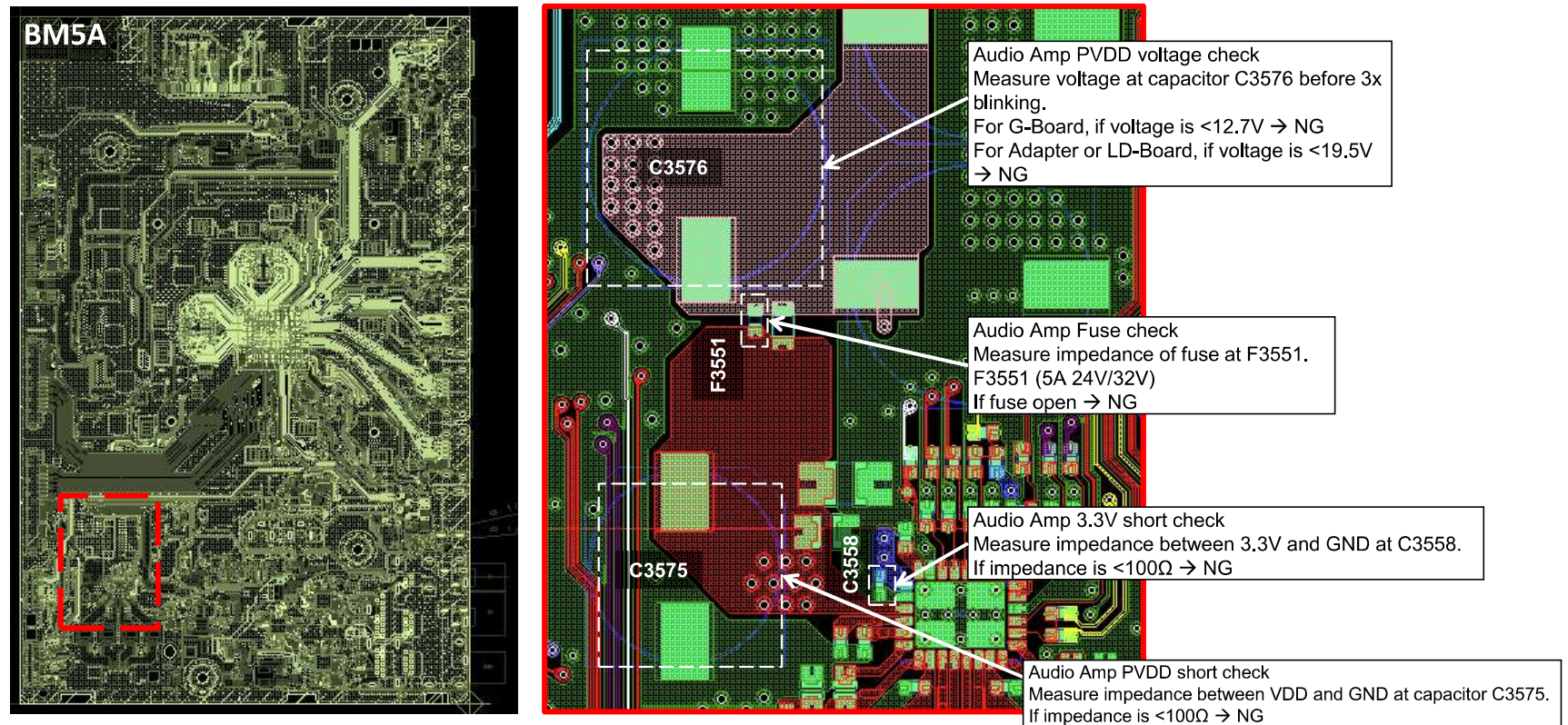
TROUBLESHOOTING

2.2 LED Blinking: 3x (AUD_ERR)



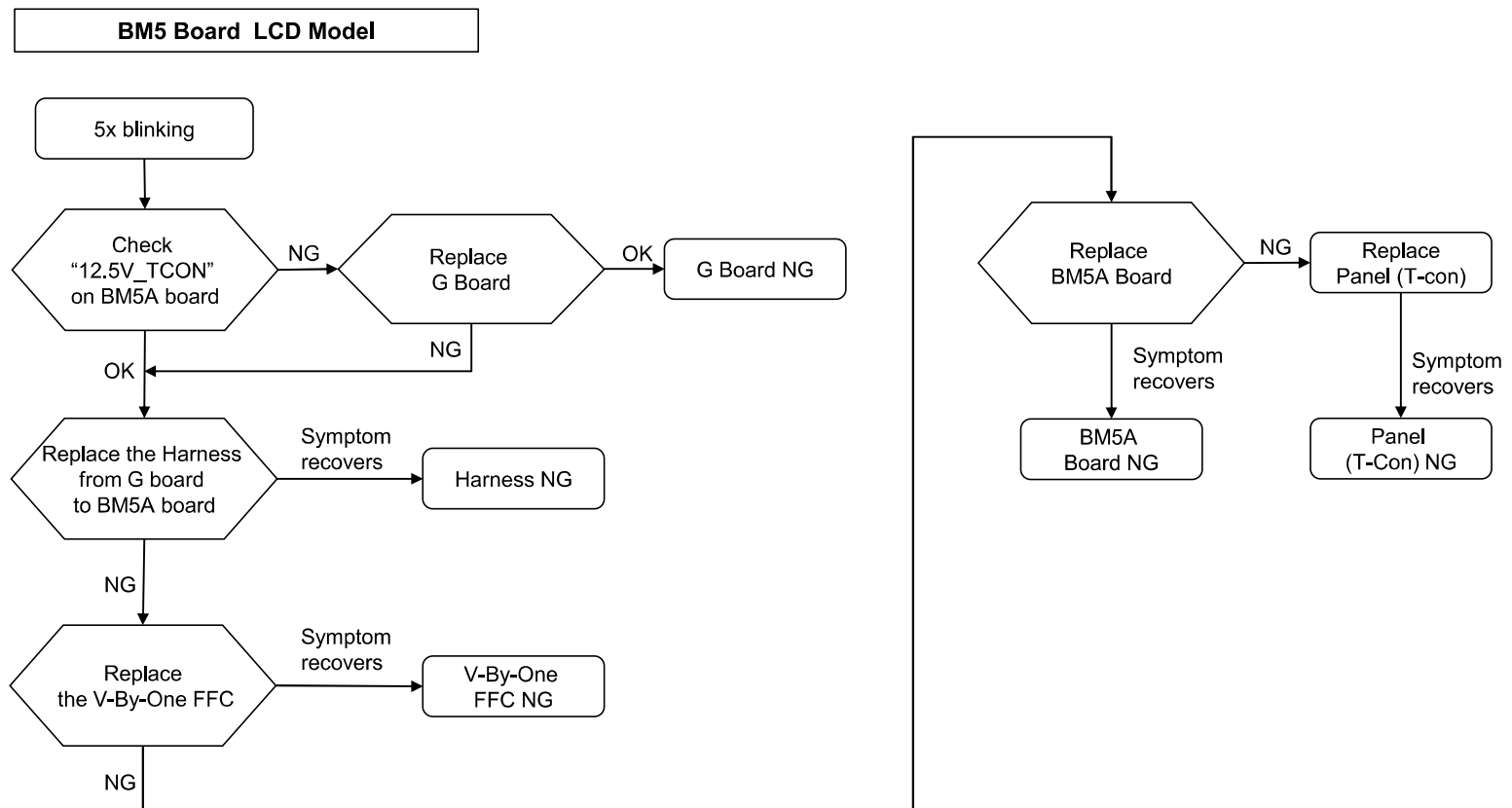
TROUBLESHOOTING

2.2 LED Blinking: 3x (AUD_ERR) – BM5A B-Board



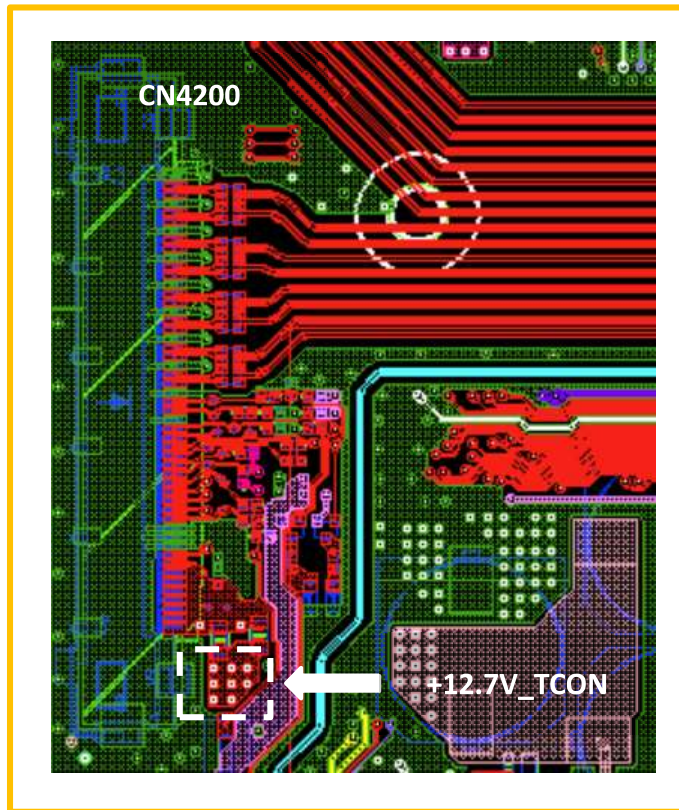
TROUBLESHOOTING

2.5 LED Blinking: 5x Panel ID Read Error

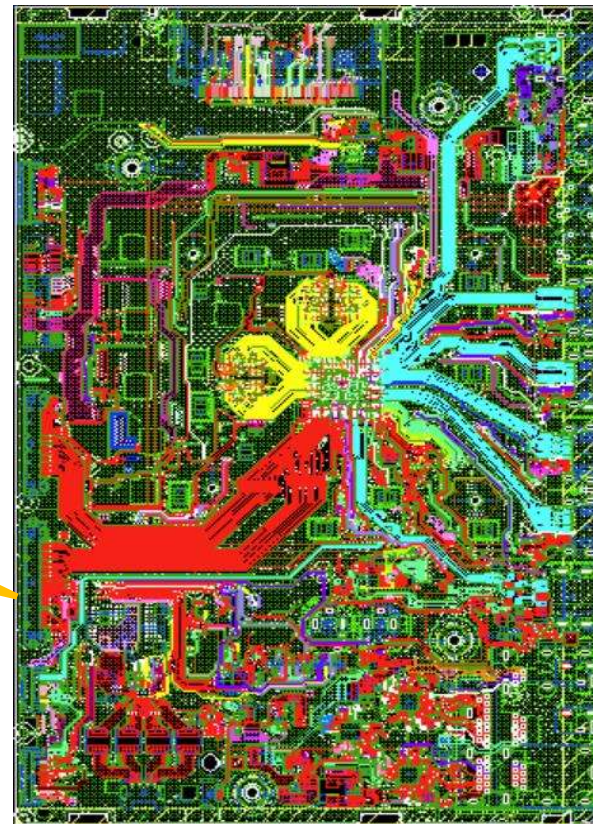


TROUBLESHOOTING

BM5A PWB Layout

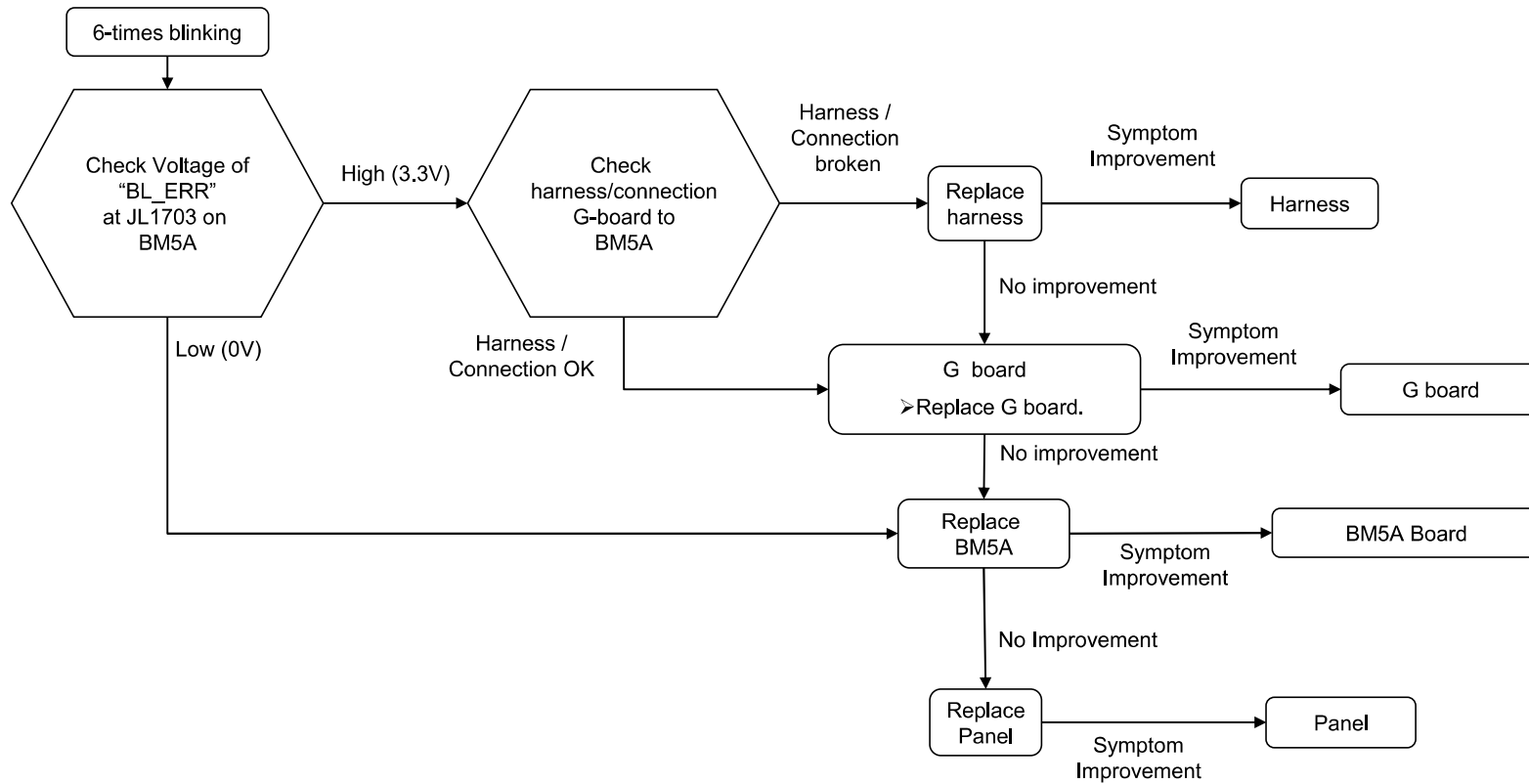


BM5A Full Layout



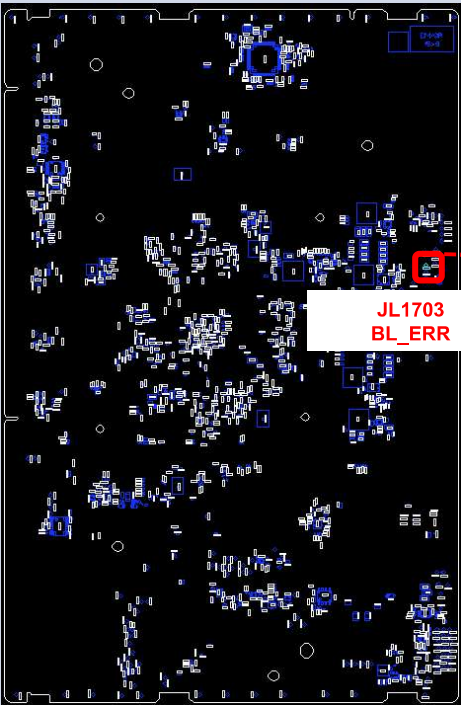
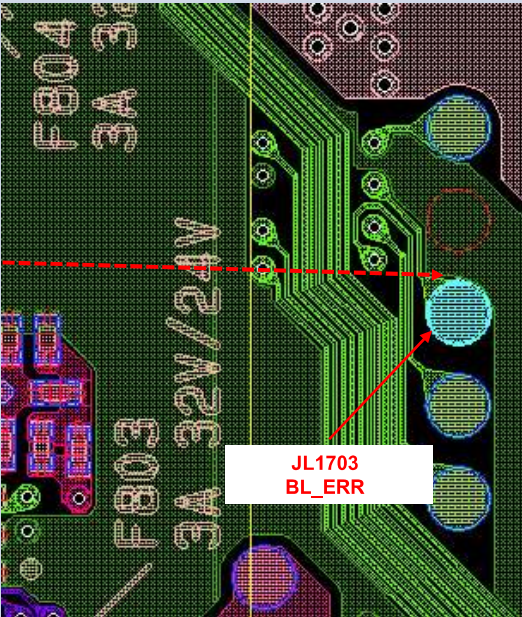
TROUBLESHOOTING

2.6 LED Blinking: 6x (Backlight Error)



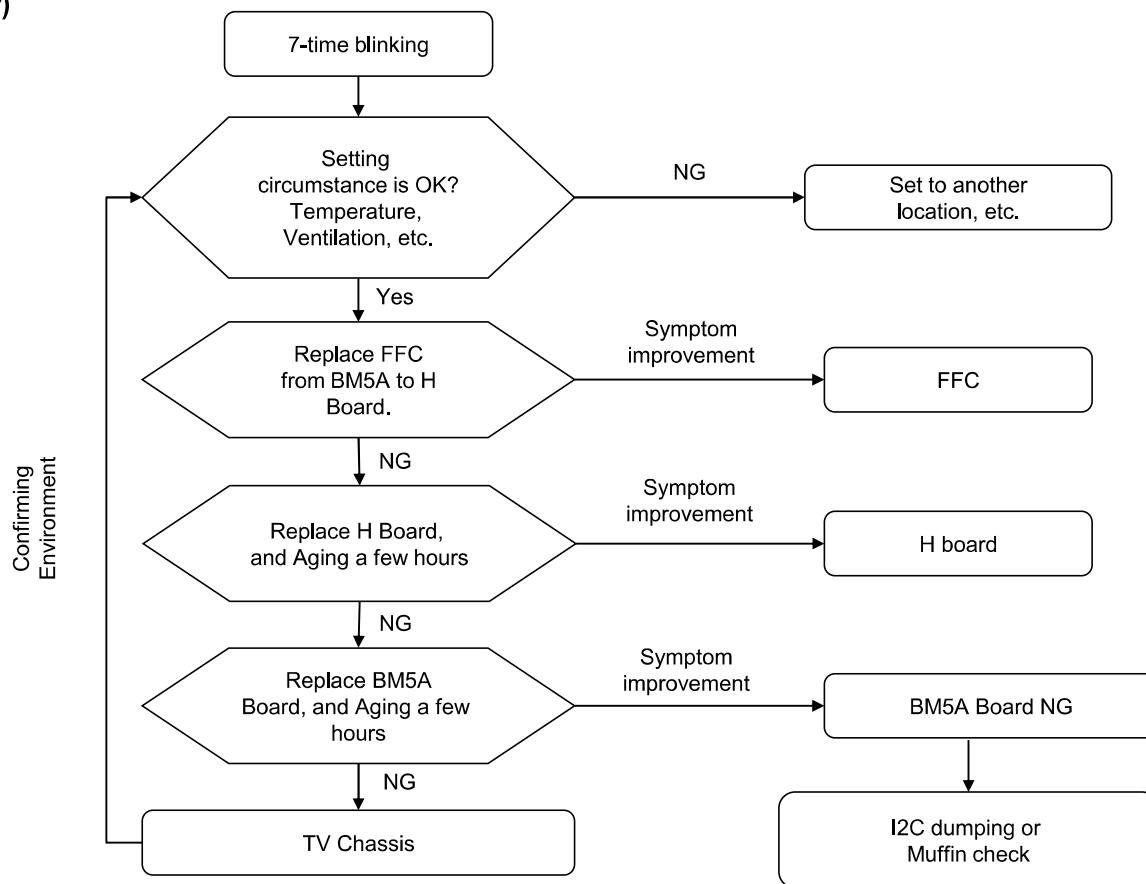
TROUBLESHOOTING

Check point for BM5A

Name	Board PWB (B side)	Detail
BM5A	 <p data-bbox="821 841 1031 899">JL1703 BL_ERR</p>	 <p data-bbox="1465 997 1675 1055">JL1703 BL_ERR</p>

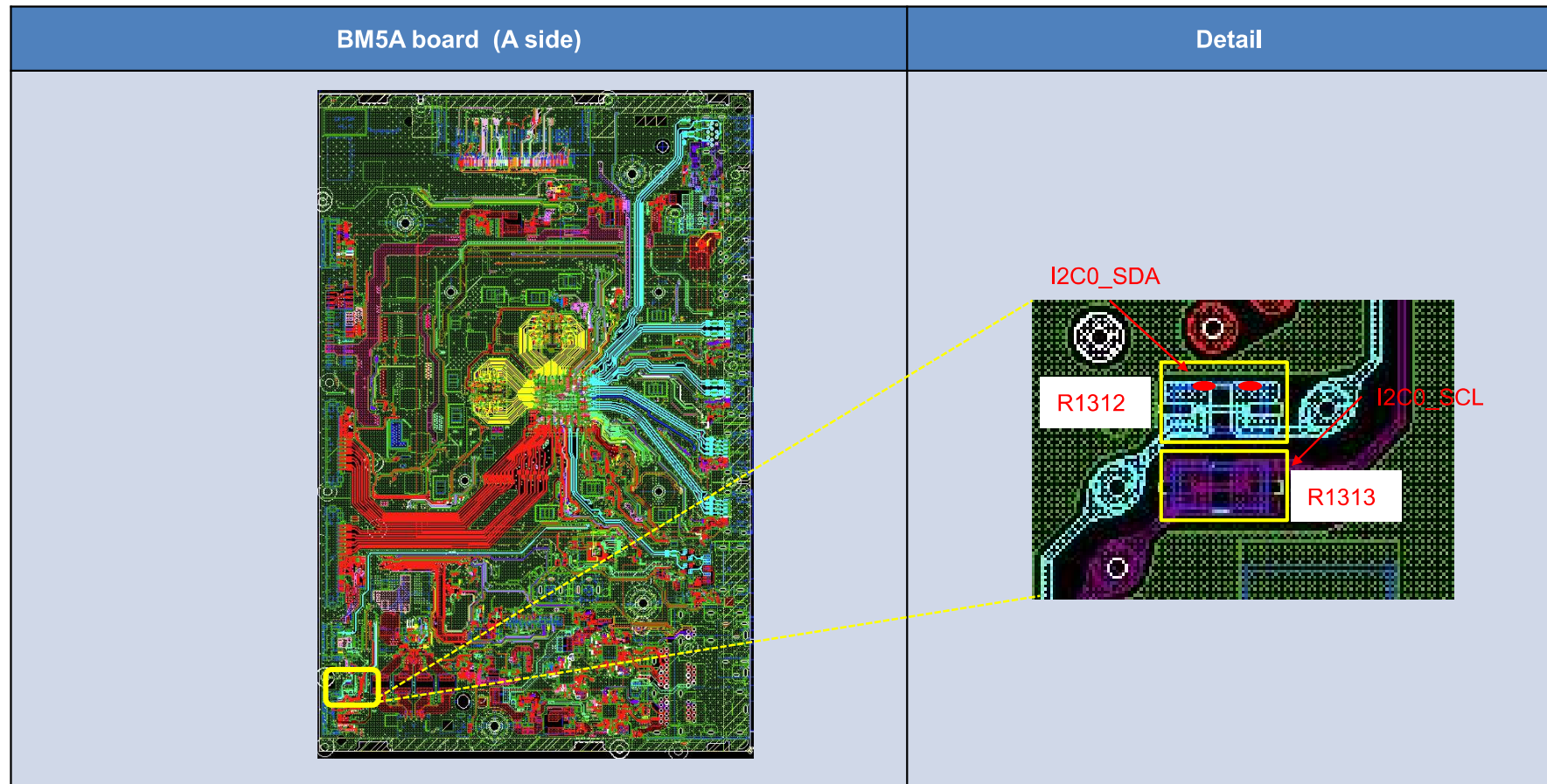
TROUBLESHOOTING

2.7 LED Blinking: 7x (Temperature Error)



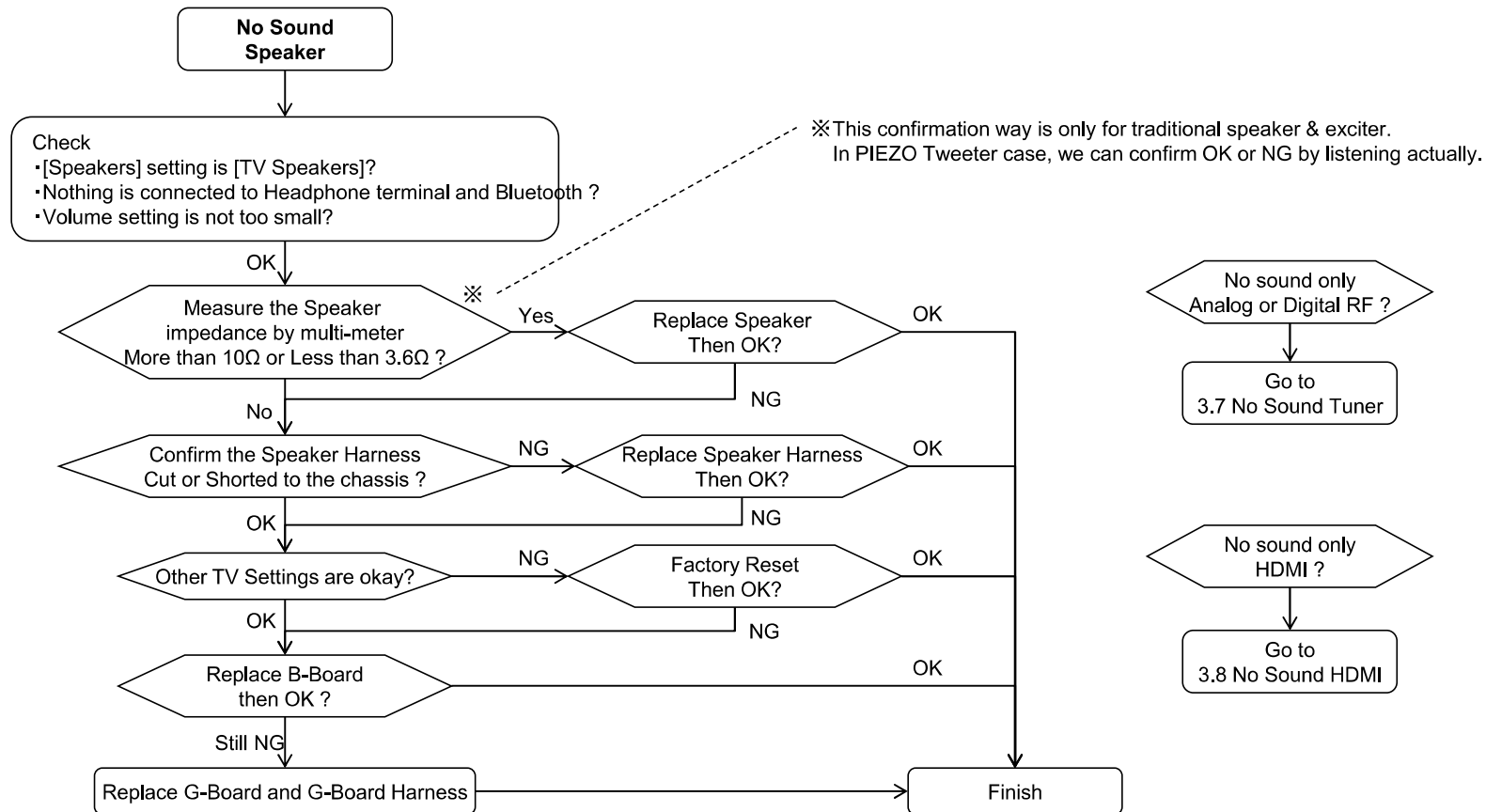
TROUBLESHOOTING

Check point for BM5A



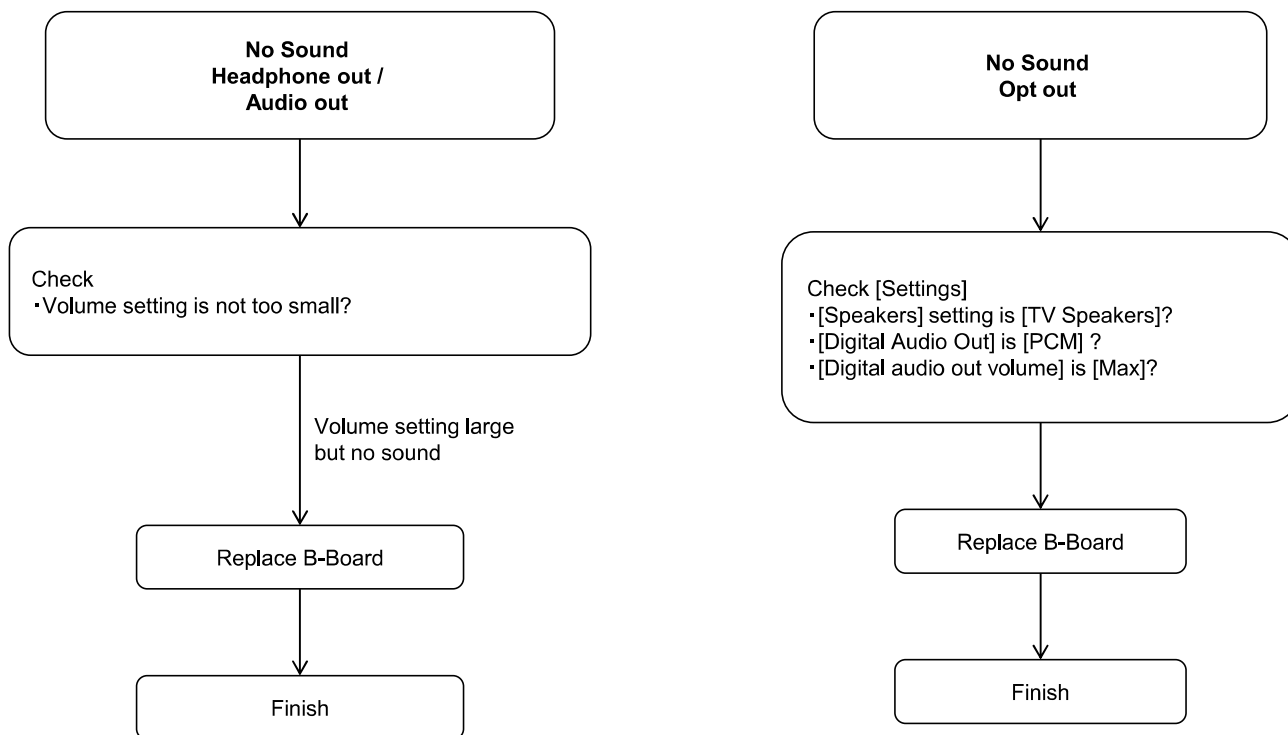
TROUBLESHOOTING

3.1 No sound for Speaker



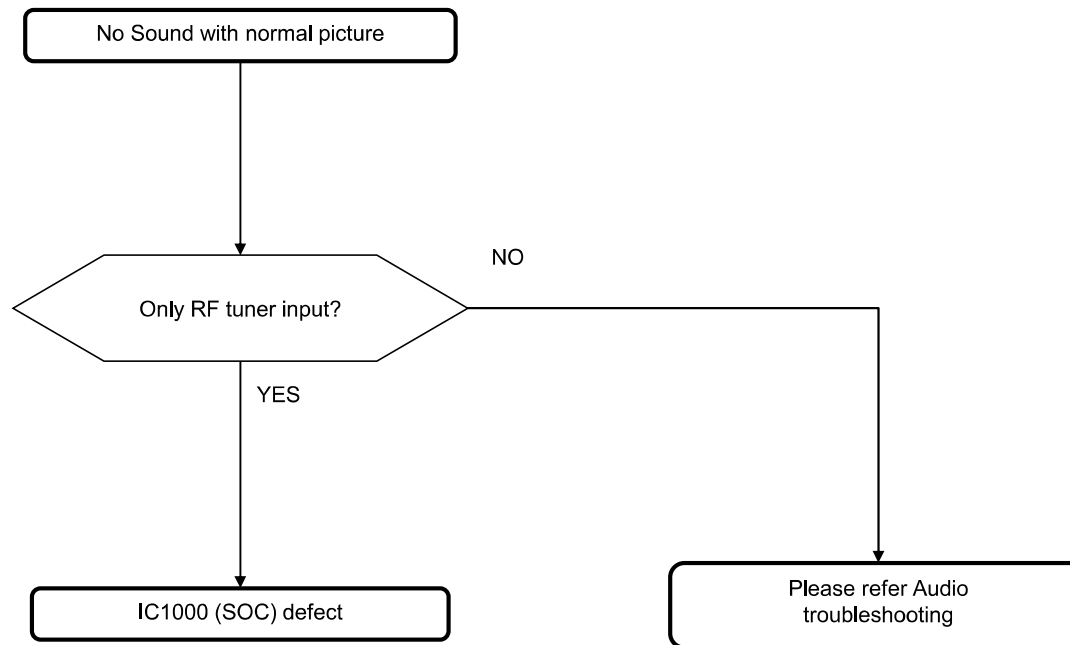
TROUBLESHOOTING

3.2 No sound for Headphone out / Audio out / Opt out



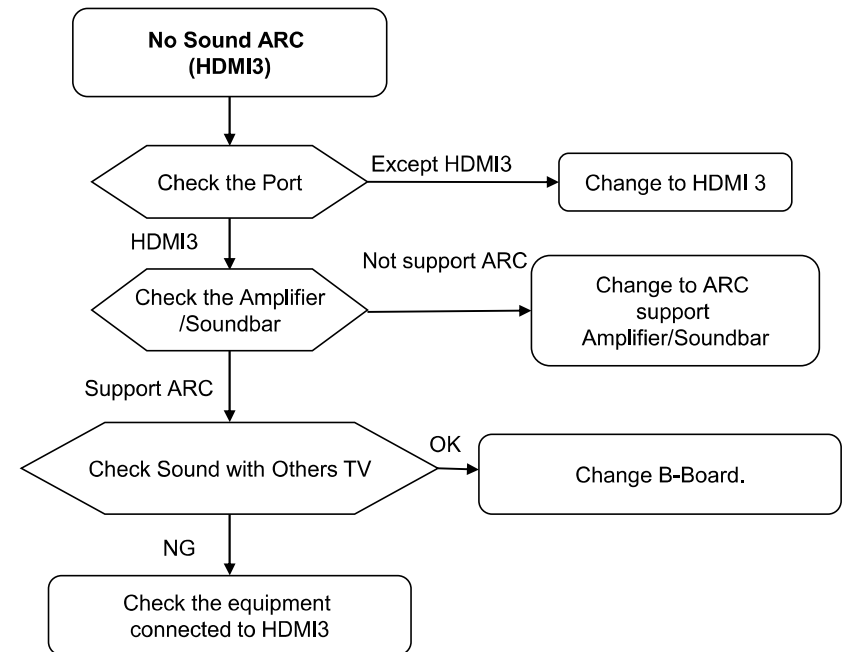
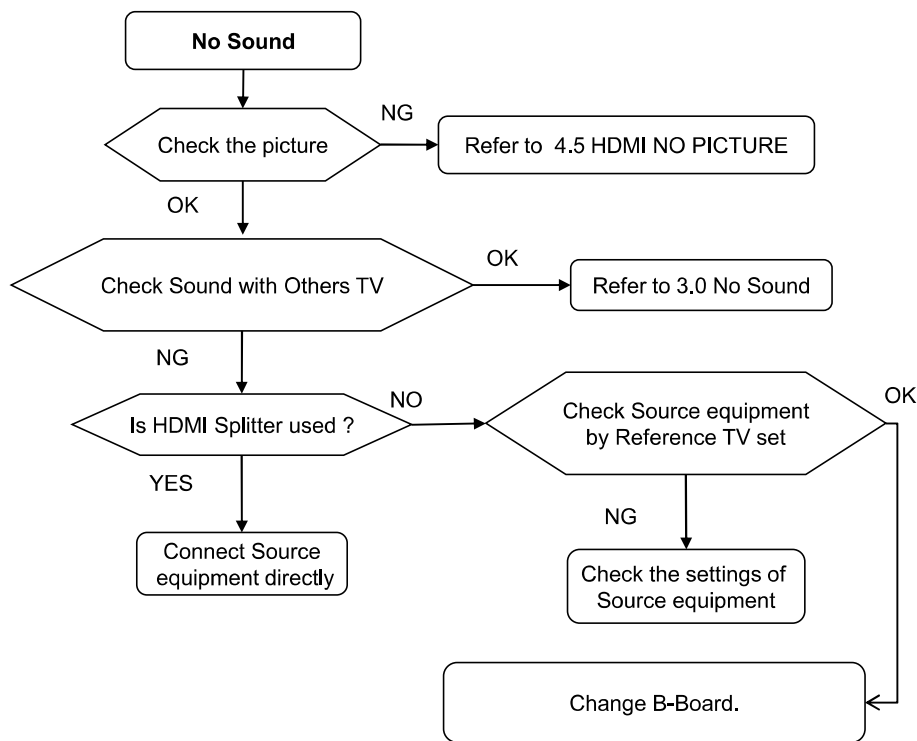
TROUBLESHOOTING

3.7 No Sound: @ Tuner



TROUBLESHOOTING

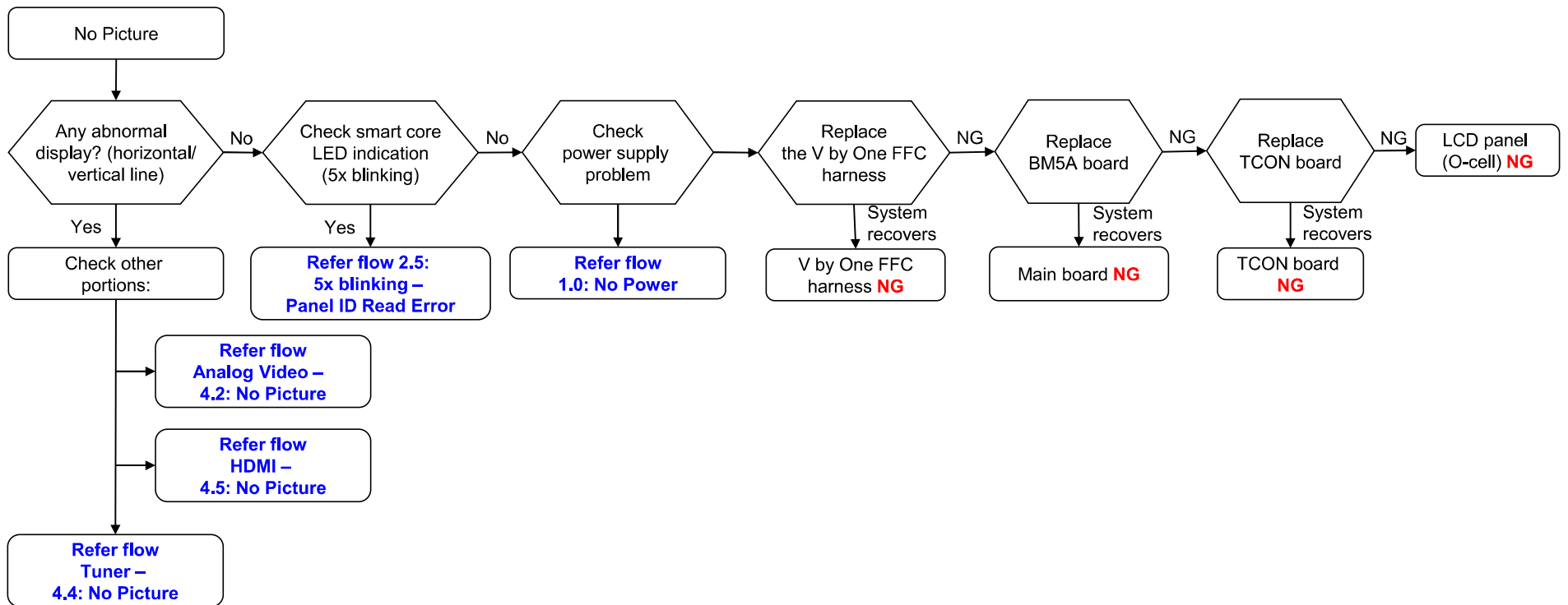
3.8 No Sound: HDMI 1/2/3/4



TROUBLESHOOTING

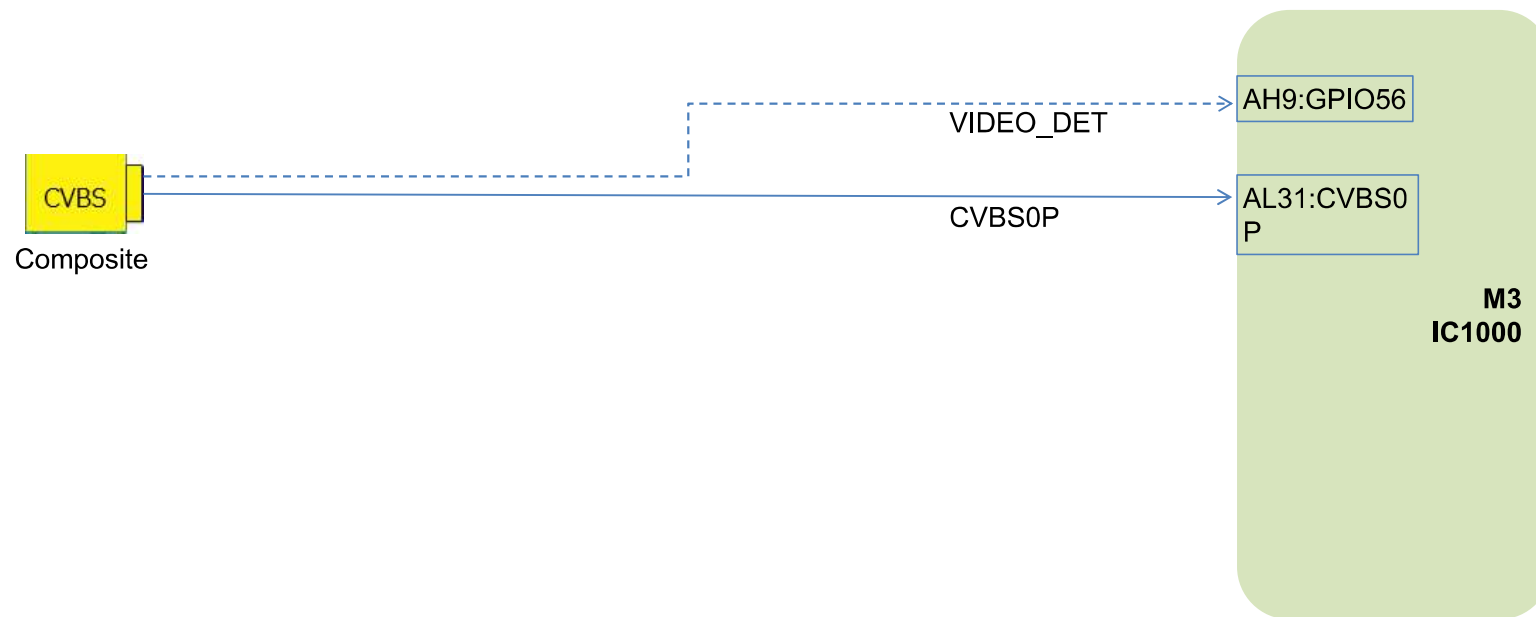
4.0 No Picture

BM5 Board LCD Model



TROUBLESHOOTING

4.1 Analog Video Signal Path

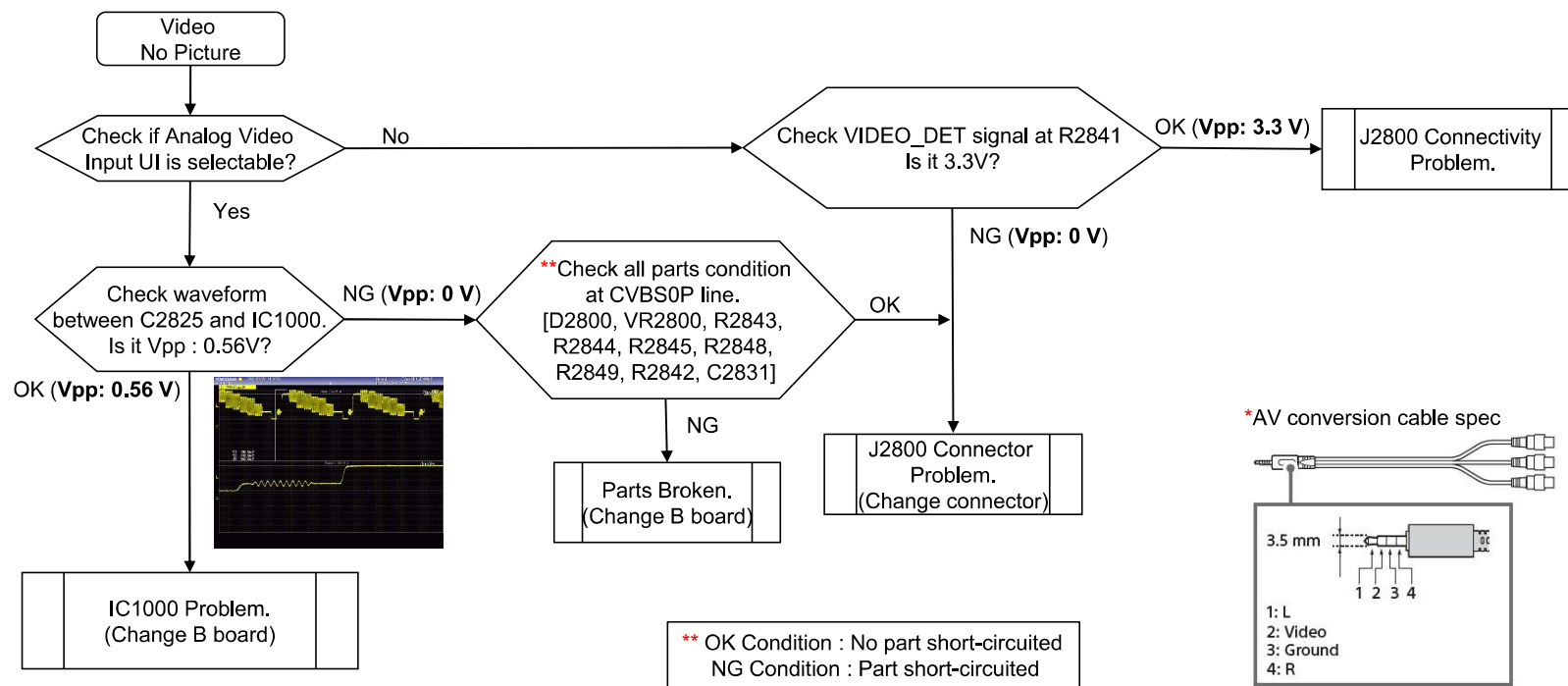


TROUBLESHOOTING

4.2 No Picture – Investigation flow

Checking condition:

- TV ON, *AV conversion cable is connected to conversion jack input (Yellow) at TV side. Composite input cable is connected to composite source output.
- TV UI Display : Video in(WW)/AV in(EU)



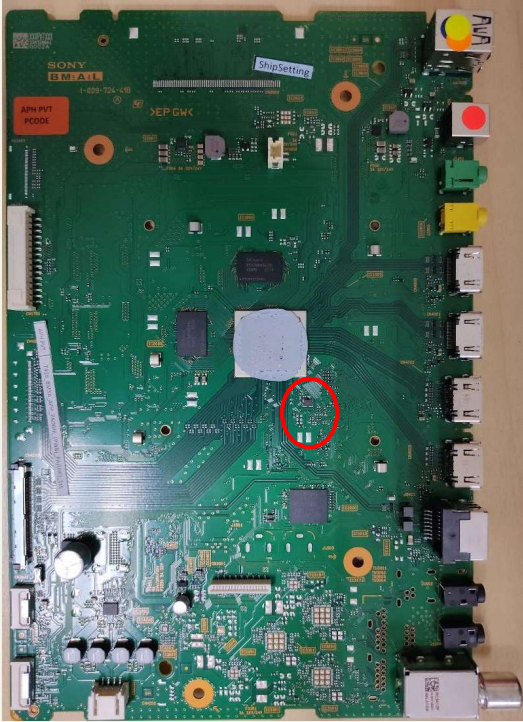
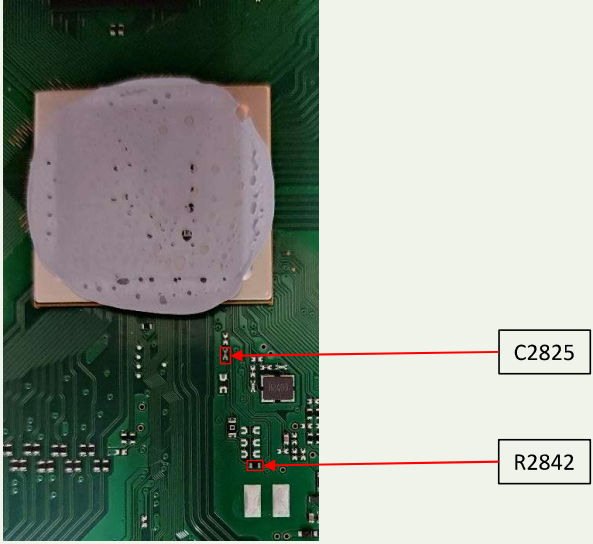
TROUBLESHOOTING

4.2 No Picture – Actions

Condition	Actions to be taken						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;"></td> <td style="text-align: center;">Muffin [IC1000] Problem</td> <td style="width: 20px;"></td> </tr> </table>		Muffin [IC1000] Problem		Change B-board			
	Muffin [IC1000] Problem						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;"></td> <td style="text-align: center;">Connector Problem</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;"></td> <td style="text-align: center;">Connectivity Problem</td> <td style="width: 20px;"></td> </tr> </table>		Connector Problem			Connectivity Problem		Change Connector
	Connector Problem						
	Connectivity Problem						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;"></td> <td style="text-align: center;">Parts Broken</td> <td style="width: 20px;"></td> </tr> </table>		Parts Broken		Change Part according to ** remarks			
	Parts Broken						

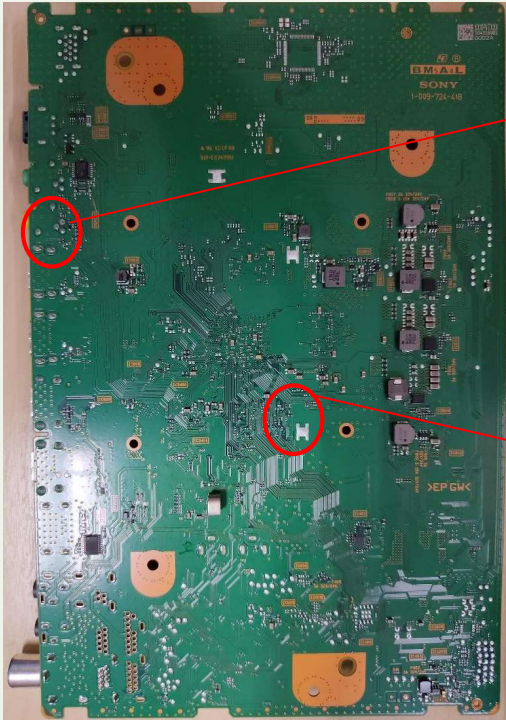
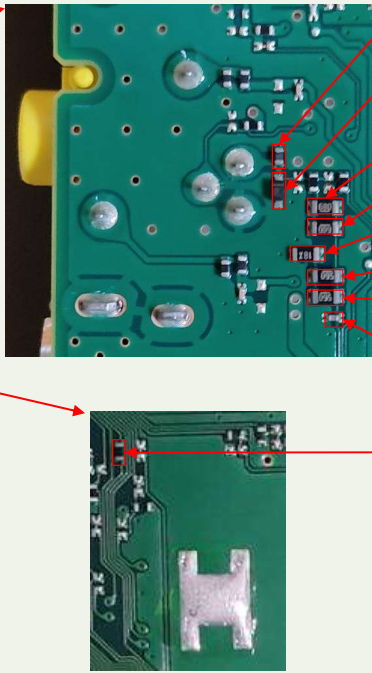
TROUBLESHOOTING

4.2 No Picture – Parts location

Board Name	Board PWB (A-side)	Details
BM5A R2842, C2825		

TROUBLESHOOTING

4.2 No Picture – Parts location

Board Name	Board PWB (B-side)	Details
BM5A D2800, VR2800, R2843, R2844, R2845, R2848, R2849, C2831, R2841		 <div style="display: flex; flex-direction: column; align-items: flex-end; gap: 10px;"> <div style="border: 1px solid black; padding: 2px;">VR2800</div> <div style="border: 1px solid black; padding: 2px;">D2800</div> <div style="border: 1px solid black; padding: 2px;">R2843</div> <div style="border: 1px solid black; padding: 2px;">R2848</div> <div style="border: 1px solid black; padding: 2px;">R2845</div> <div style="border: 1px solid black; padding: 2px;">R2844</div> <div style="border: 1px solid black; padding: 2px;">R2849</div> <div style="border: 1px solid black; padding: 2px;">C2831</div> <div style="border: 1px solid black; padding: 2px;">R2841</div> </div>

TROUBLESHOOTING

4.3 Input Skip Function (BM5A)

Under default condition:

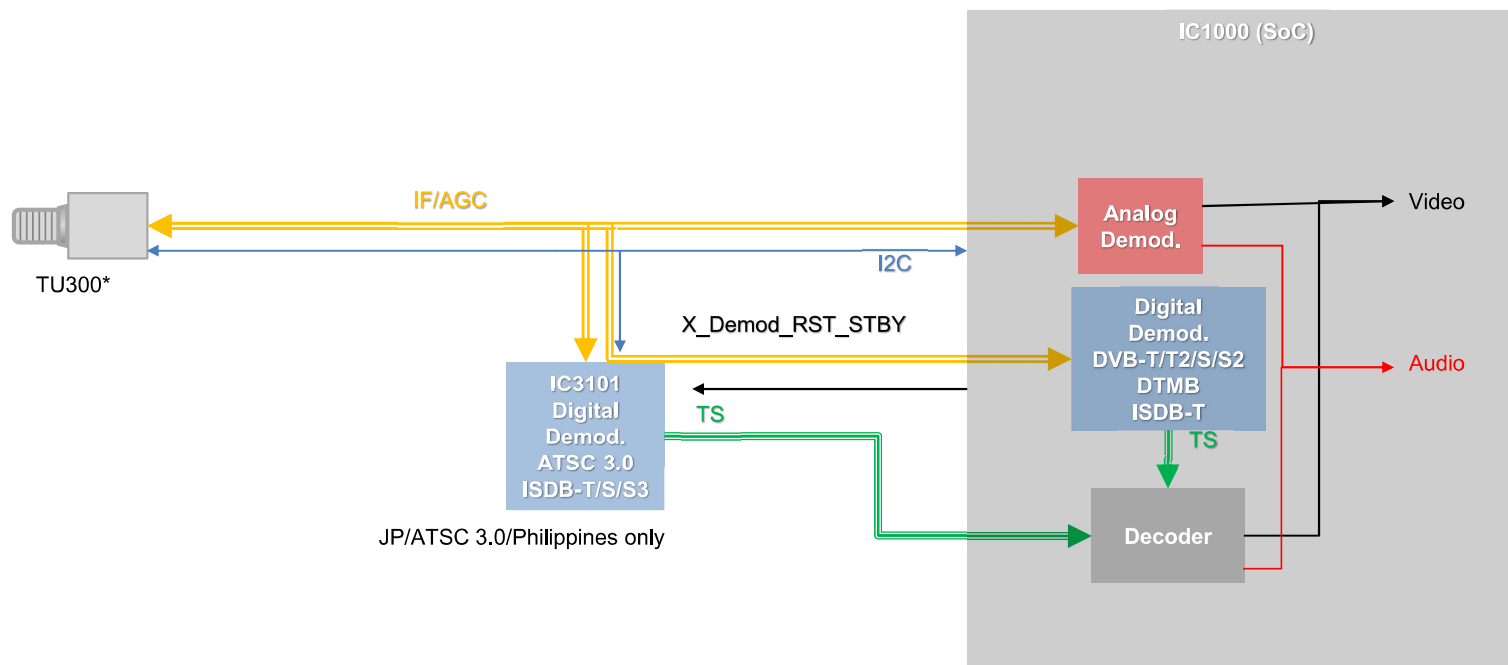
If user insert analog video cables into video jacks, the Video/Component will be highlighted and can be selected.

The detection mechanism is based on below tables.

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

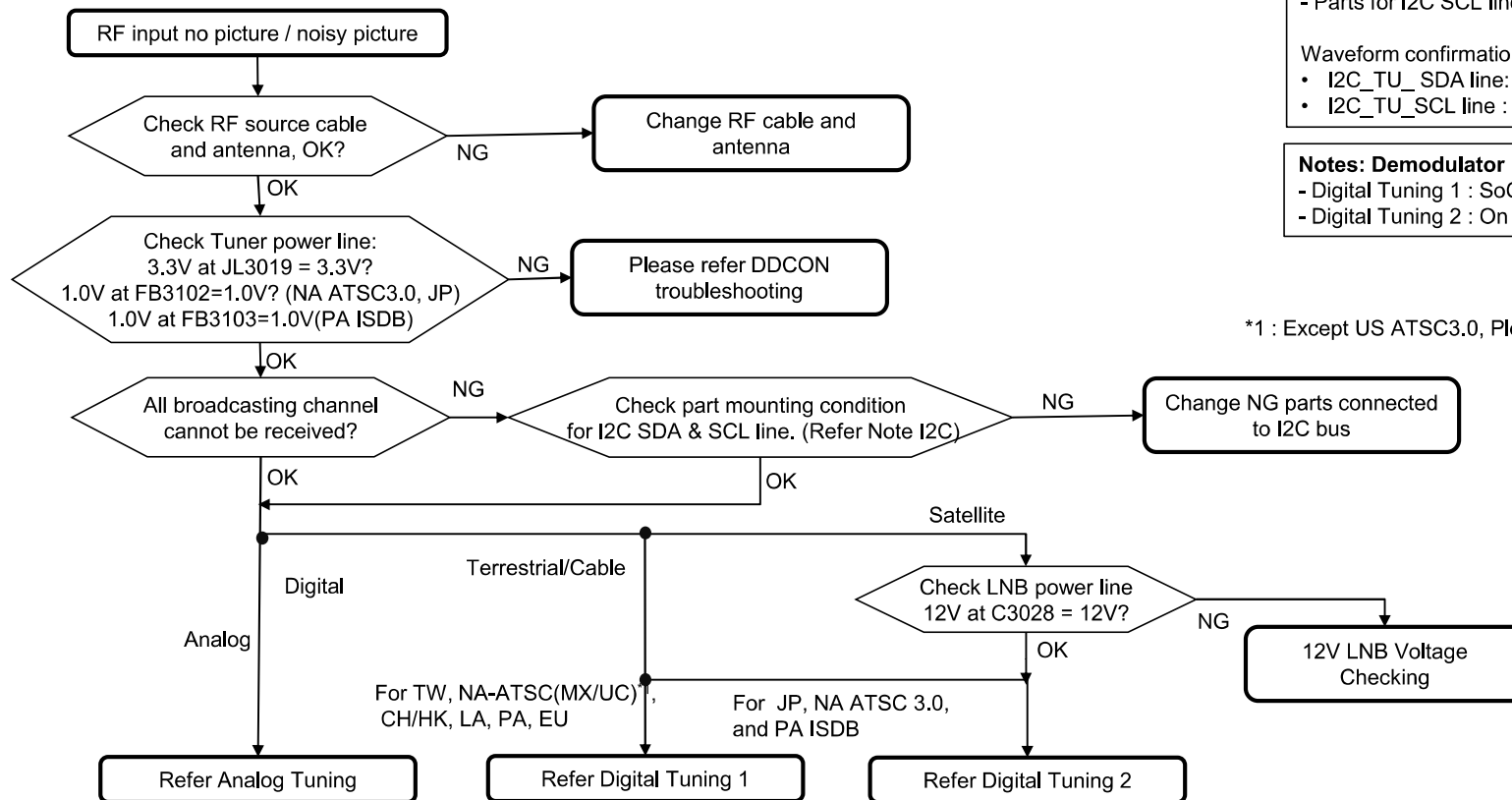
TROUBLESHOOTING

4.4 No Picture: @ Tuner



TROUBLESHOOTING

4.4 No Picture: @ Tuner



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

Waveform confirmation point
 • I2C_TU_SDA line: JL3013
 • I2C_TU_SCL line : JL3012

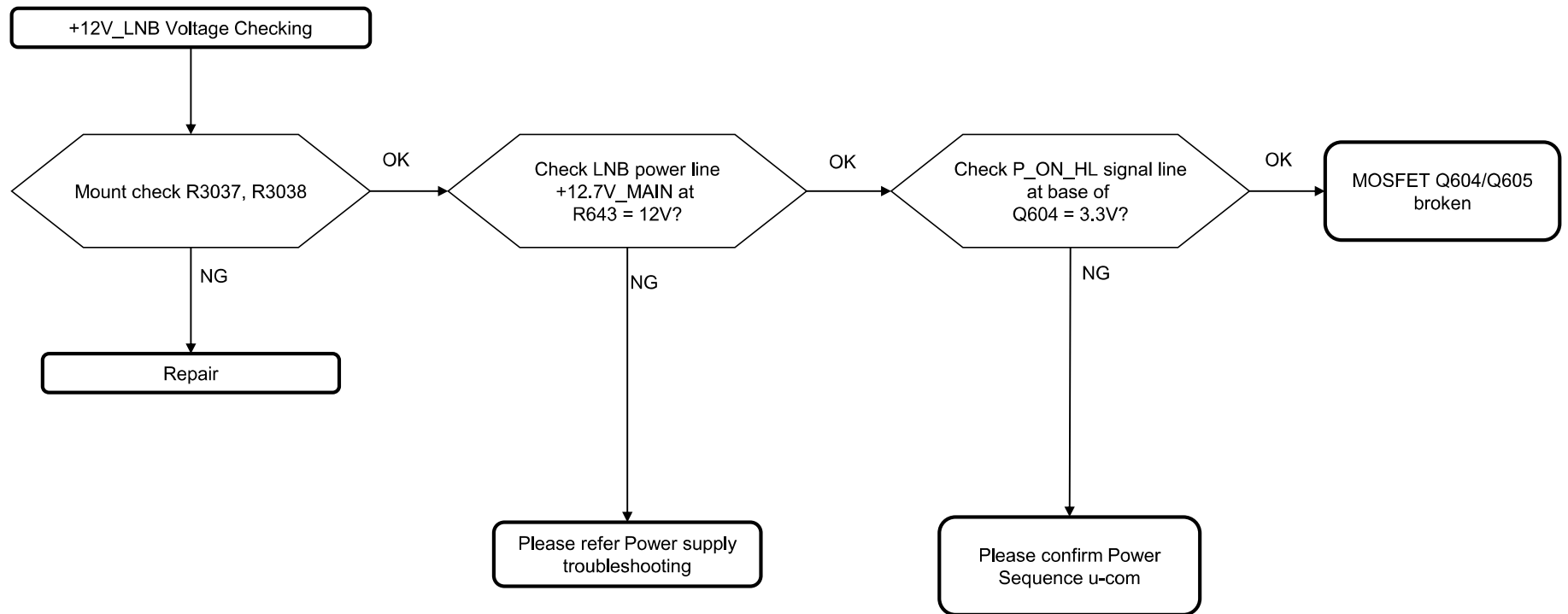
Notes: Demodulator
 - Digital Tuning 1 : SoC inside demodulator
 - Digital Tuning 2 : On board demodulator

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

TROUBLESHOOTING

4.4 No Picture: @ Tuner

FOR 12V LNB Voltage Checking: @ AEP and JP

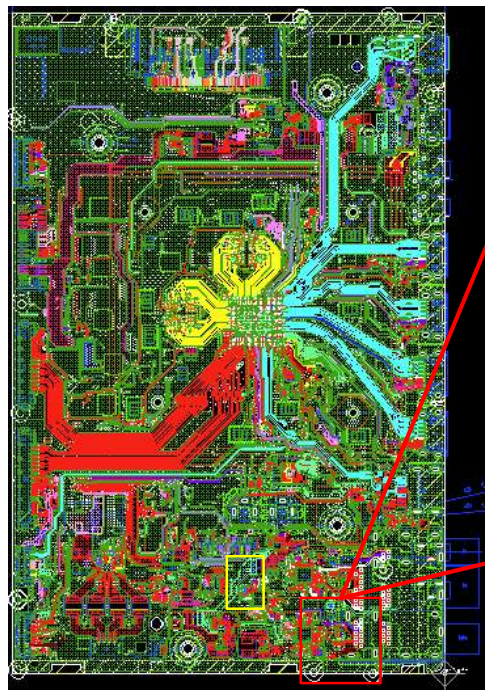
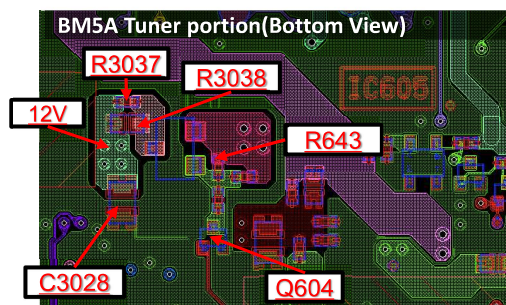


TROUBLESHOOTING

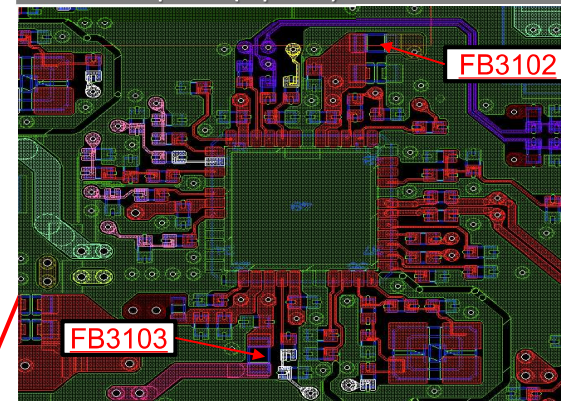
4.4 No Picture: @ Tuner (BM5A)

Tuner Power Lines: 3.3V, 12.0V, 1.0V

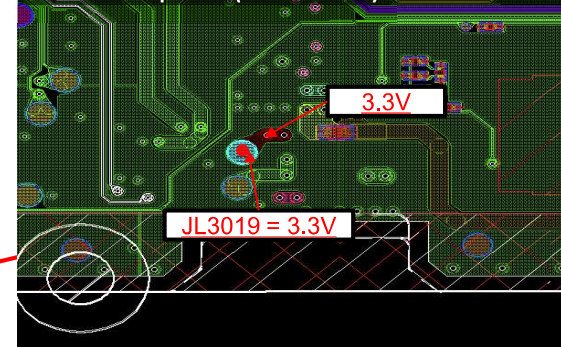
BM5A (Top View)



BM5A Tuner portion (Top View)



BM5A Tuner portion (Bottom View)

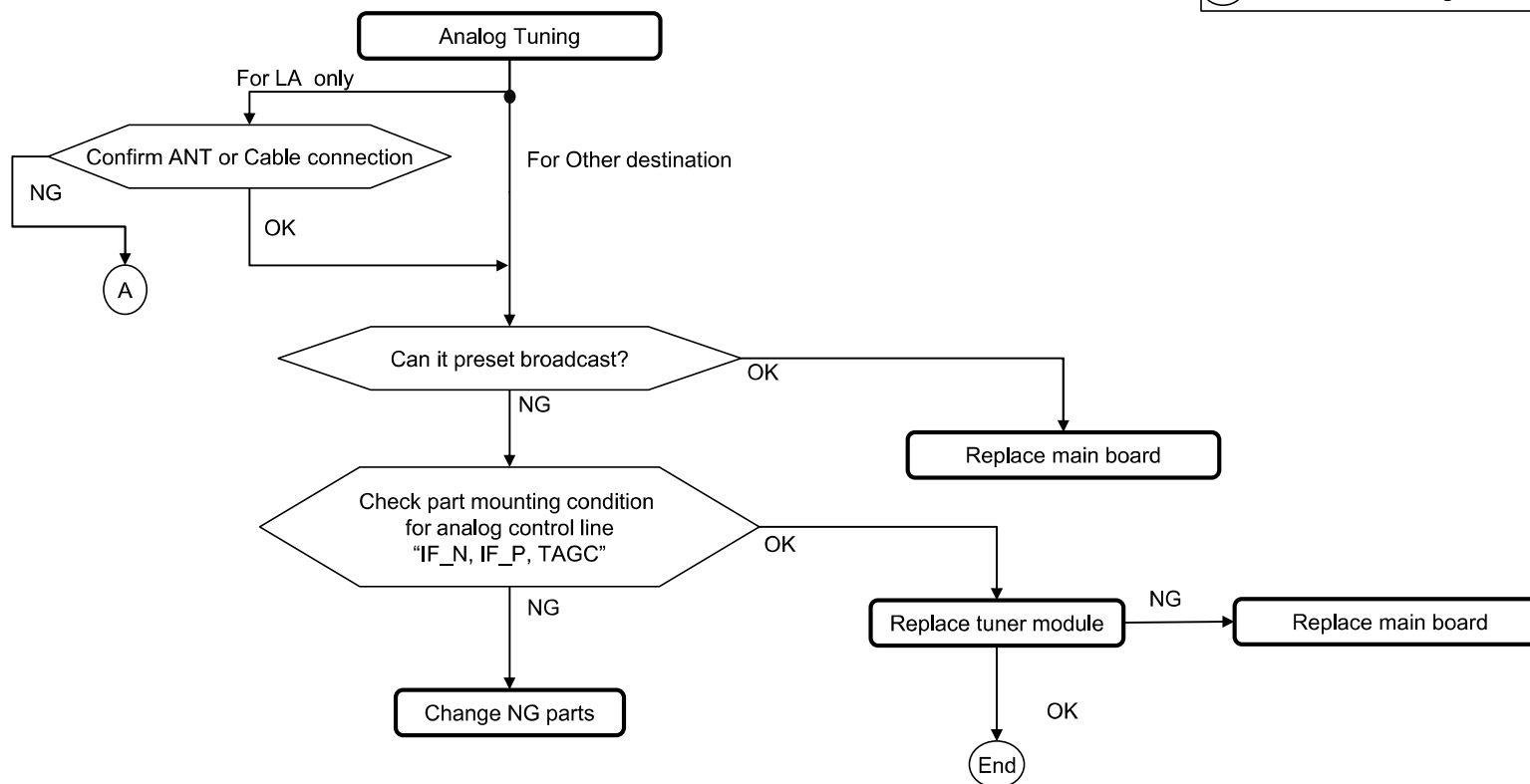


TROUBLESHOOTING

4.4 No Picture: @ Tuner

FOR ANALOG TUNING: @ All destination except JP

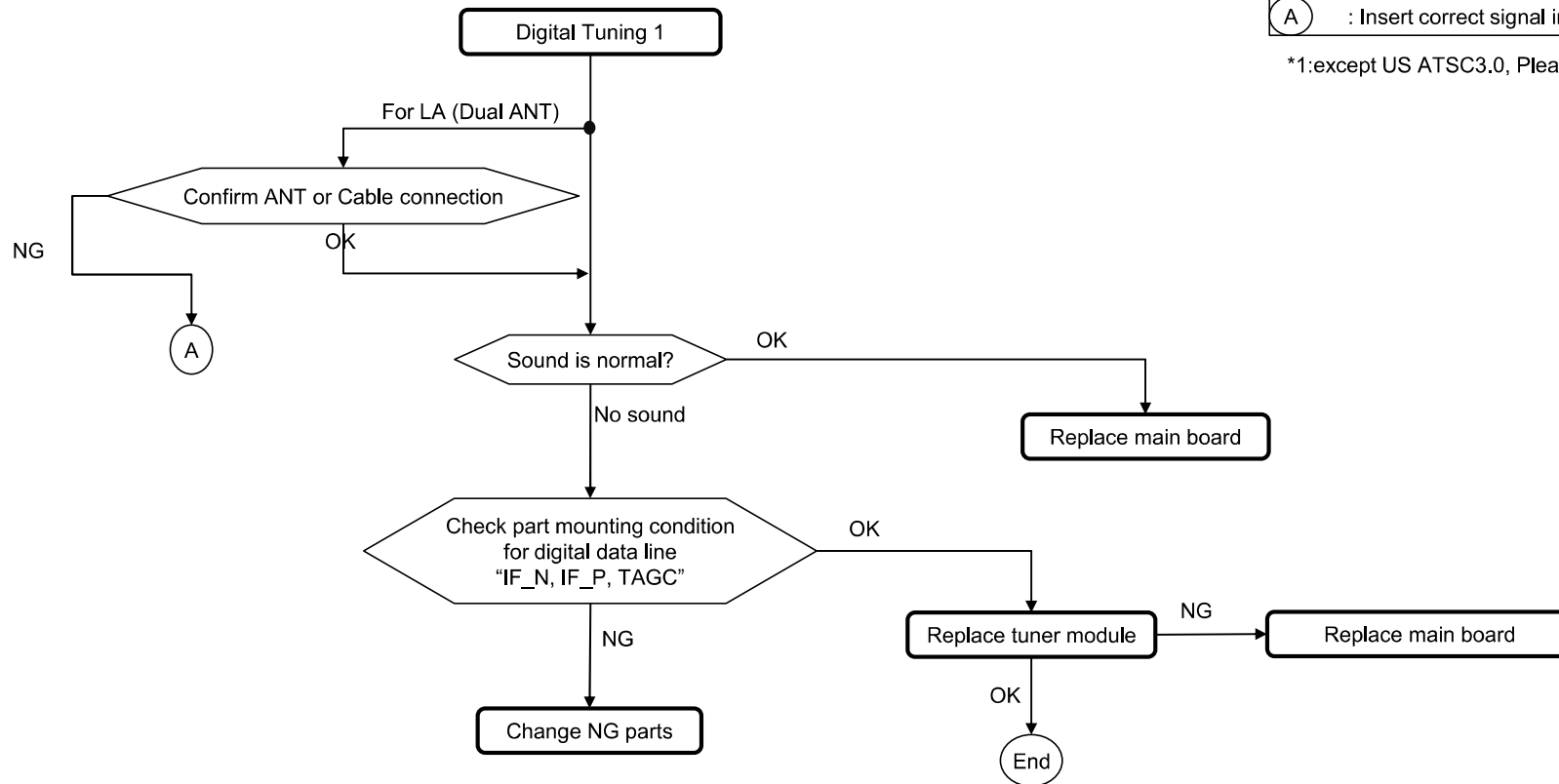
Notes:
 - Parts for IF_N line : C3011
 - Parts for IF_P line : C3010
 - Parts for TAGC line: R3024, C3023, R3003,
 (A) : Insert correct signal in correct ANT terminal.



TROUBLESHOOTING

4.4 No Picture: @ Tuner

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



Notes:
 - Parts for IF_N line : C3011
 - Parts for IF_P line : C3010
 - Parts for TAGC line: R3024, C3023, R3003,
 (A) : Insert correct signal in correct ANT terminal.

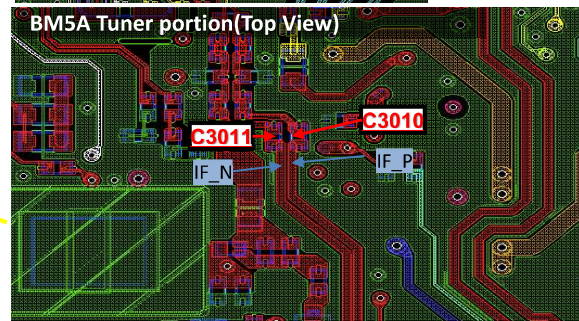
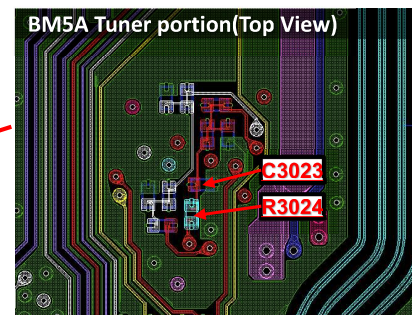
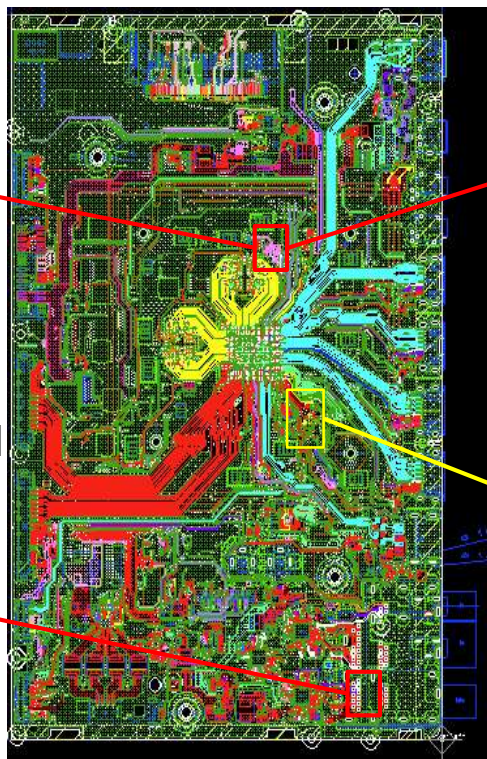
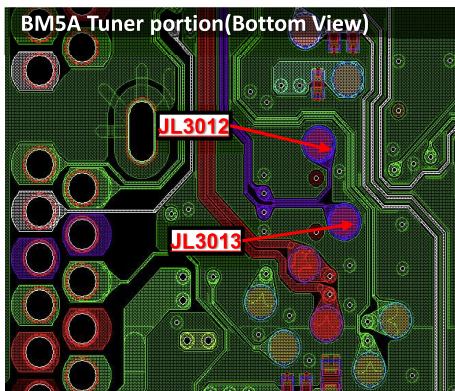
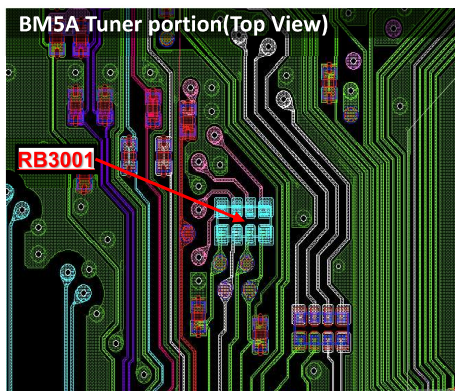
*1:except US ATSC3.0, Please refer Digital Tuning 2

TROUBLESHOOTING

4.4 No Picture: @ Tuner (BM5A)

IF_N, IF_P, TAGC, TS Lines(Near SOC)

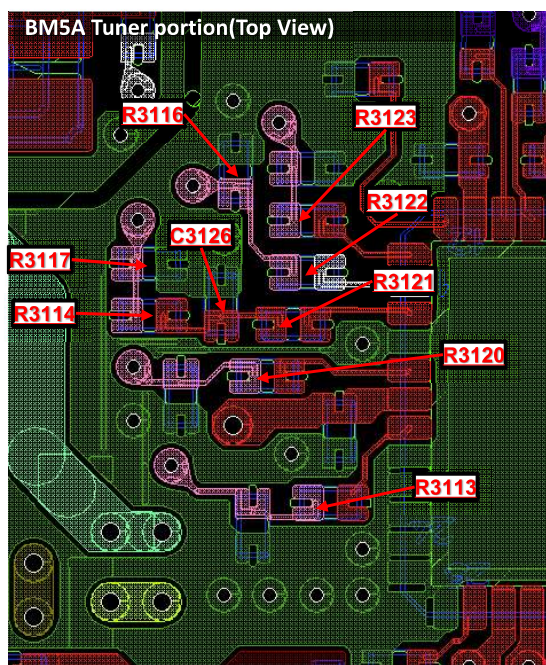
BM5A(Top View)



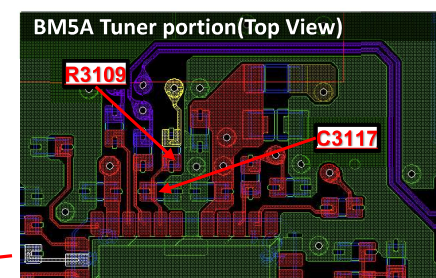
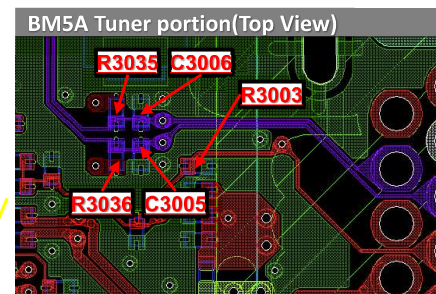
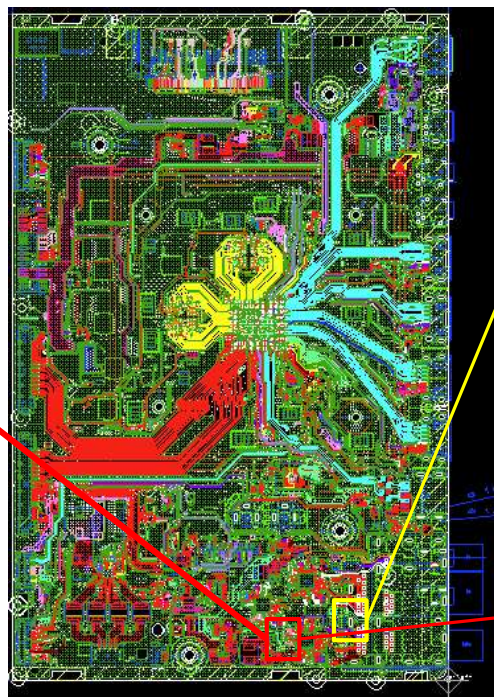
TROUBLESHOOTING

4.4 No Picture: @ Tuner (BM5A)

I2C_SDA, I2C_SCL, TS Lines(Near tuner), X_DEMOD_RST_STBY

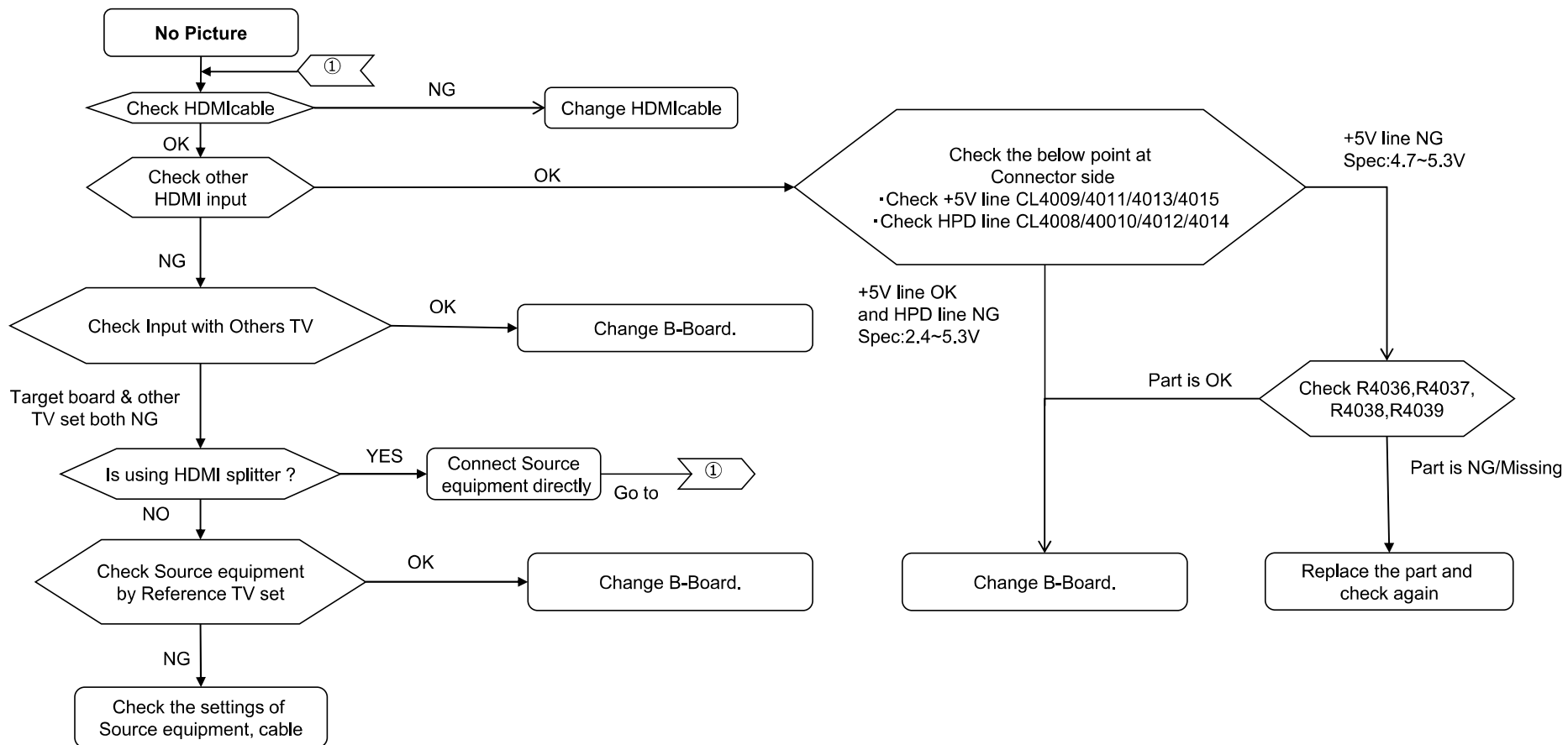


BM5A(Top View)



TROUBLESHOOTING

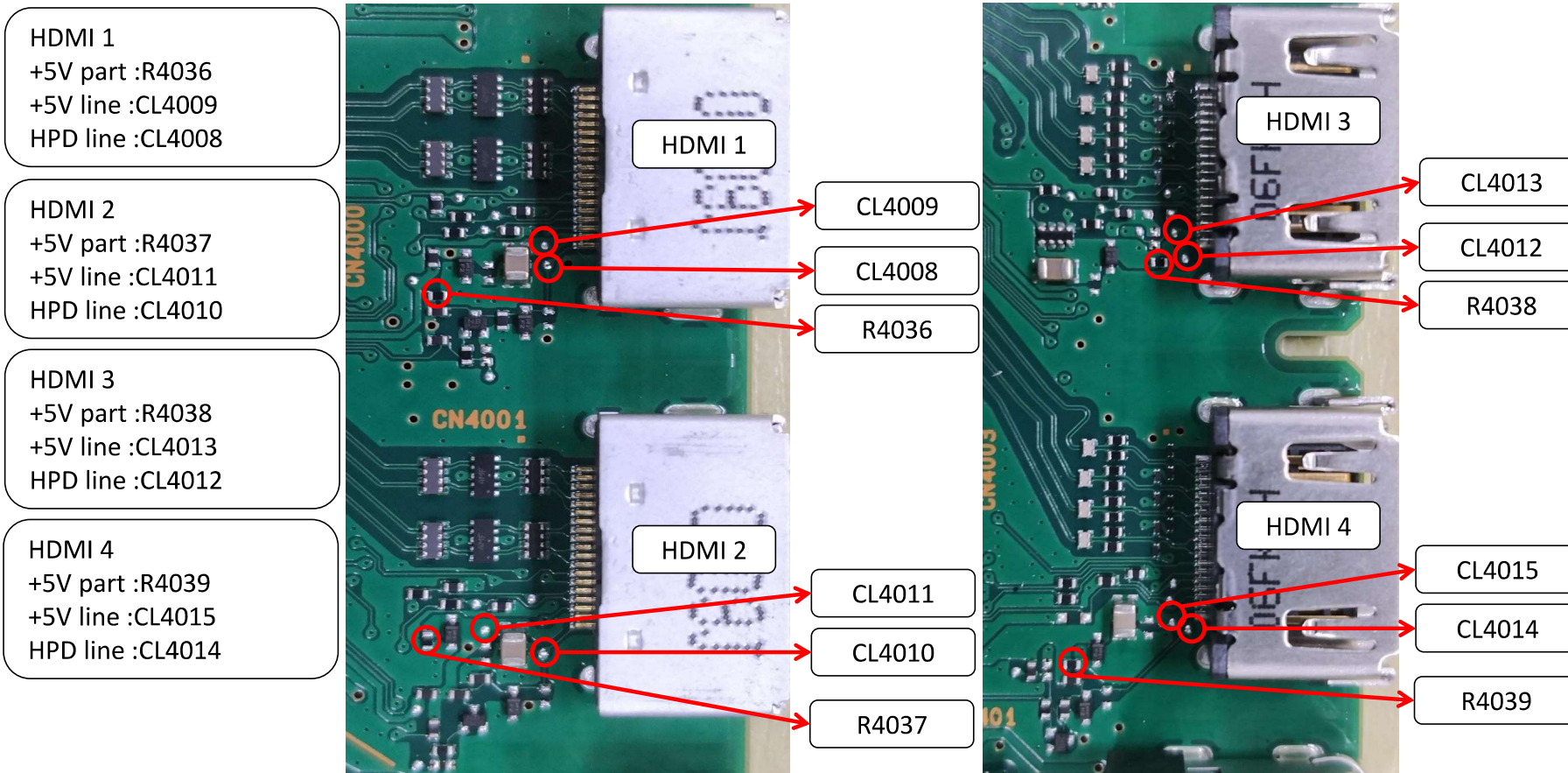
4.5 No Picture: HDMI 1/2/3/4



TROUBLESHOOTING

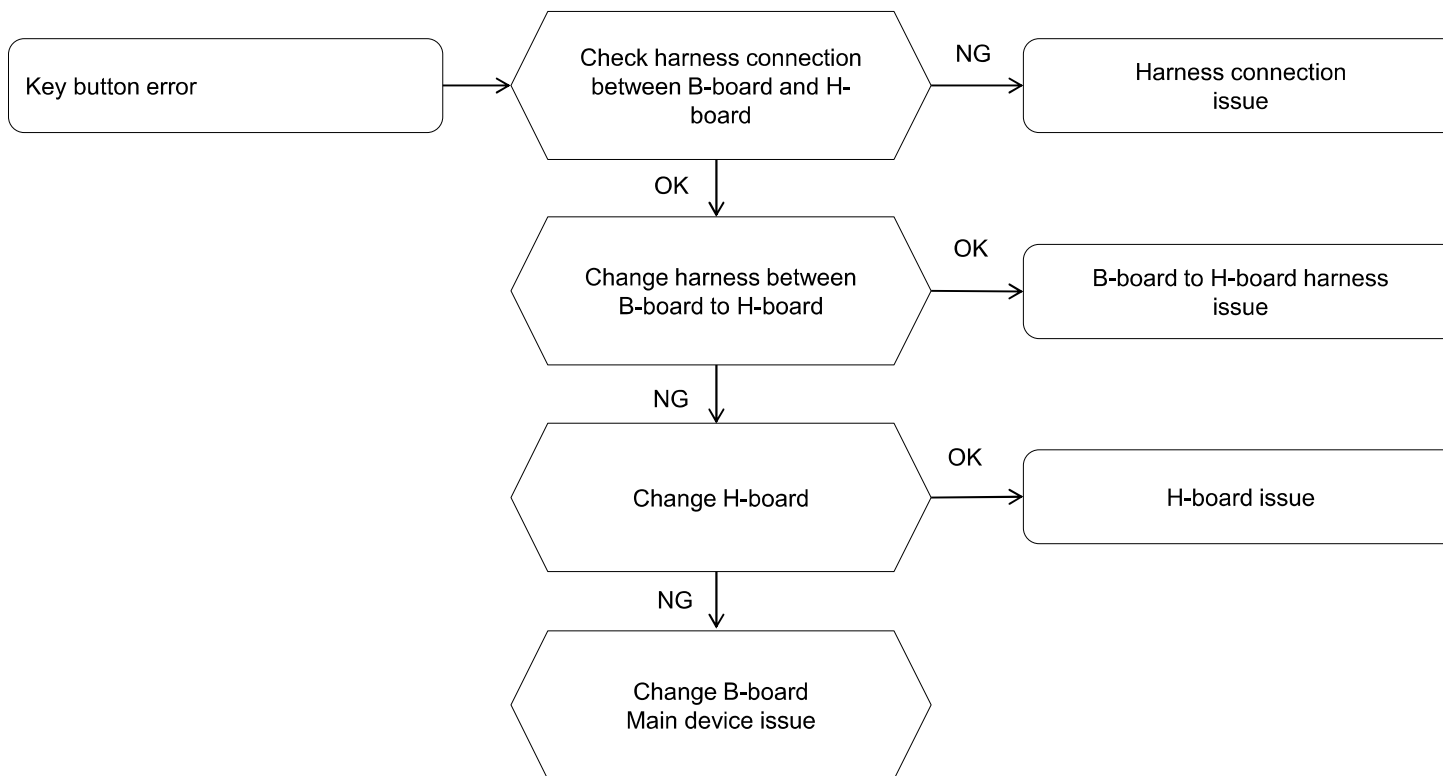
4.5 No Picture: CHECK POINTS HDMI 1/2/3/4

A-side



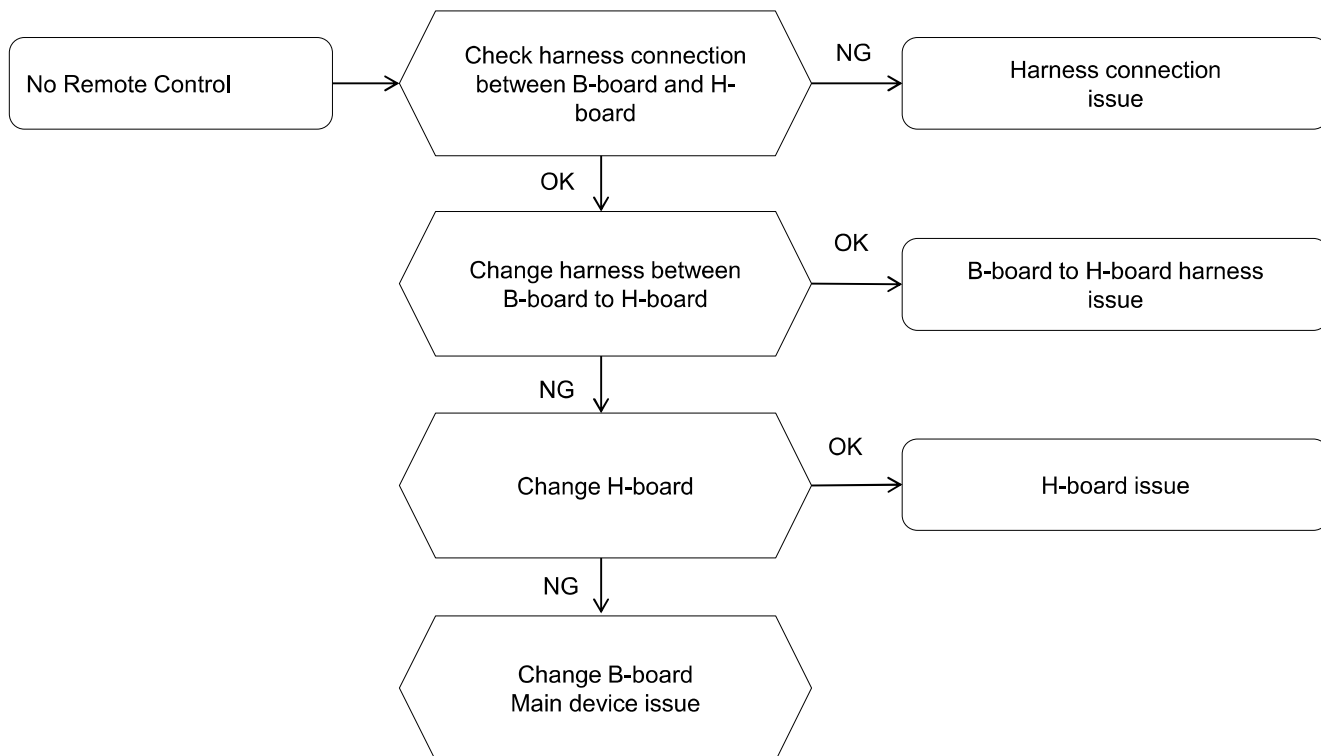
TROUBLESHOOTING

5.0 Key Switch Button Error



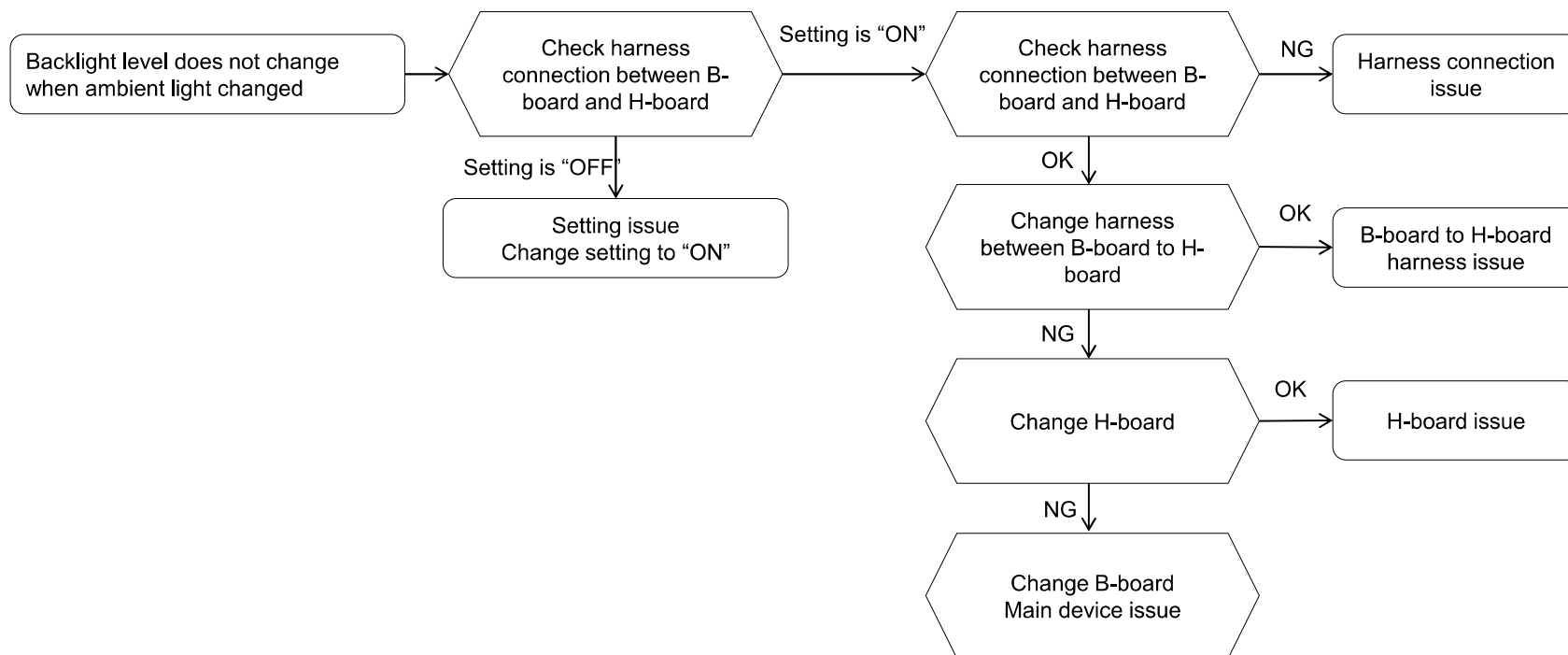
TROUBLESHOOTING

5.1 IR Remote Commander Error



TROUBLESHOOTING

5.2 Light Sensor Error



TROUBLESHOOTING

5.3 CAS ID unknown

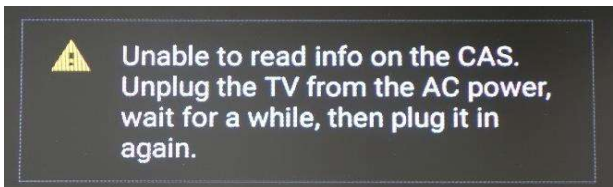
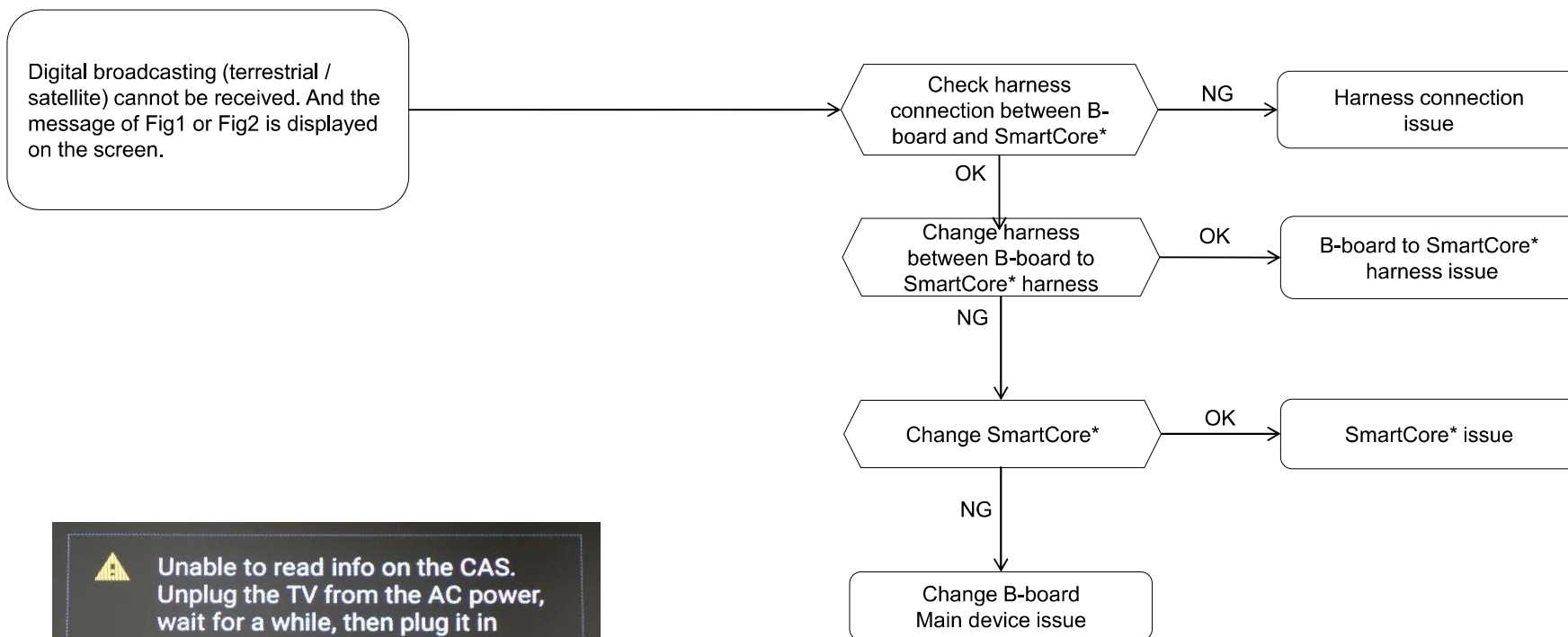
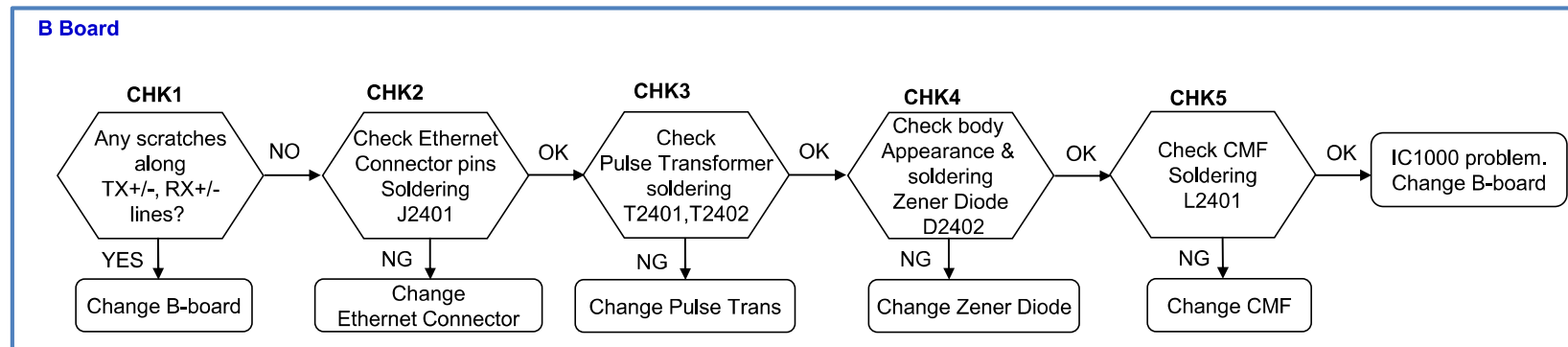
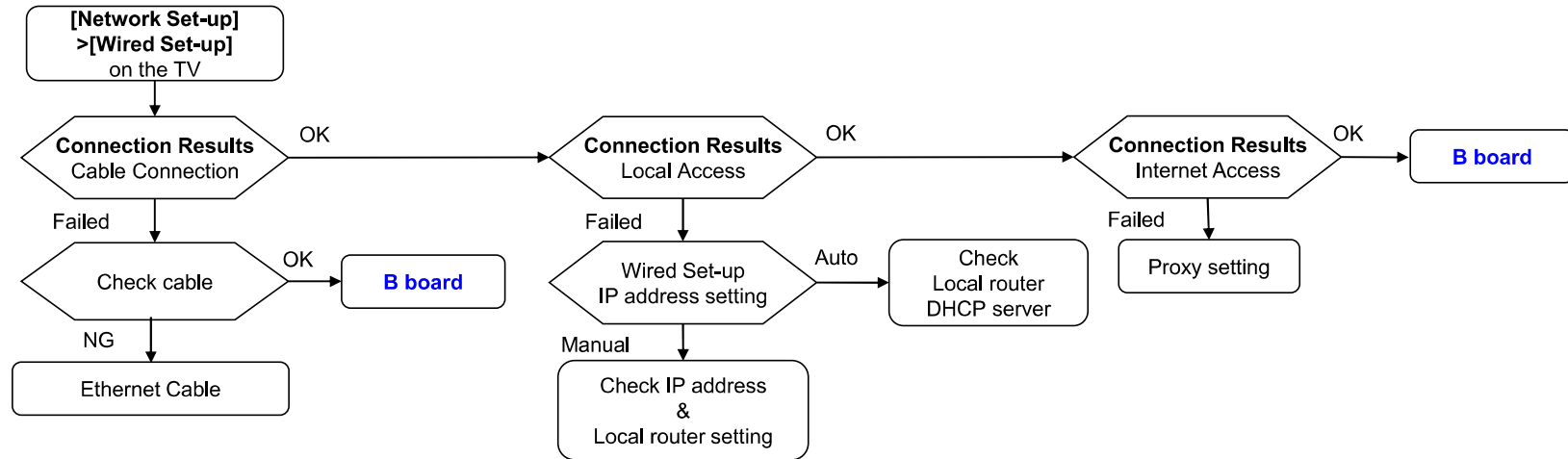


Fig2. CAS ID Error (English)

*SmartCore = Hboard (HT2)

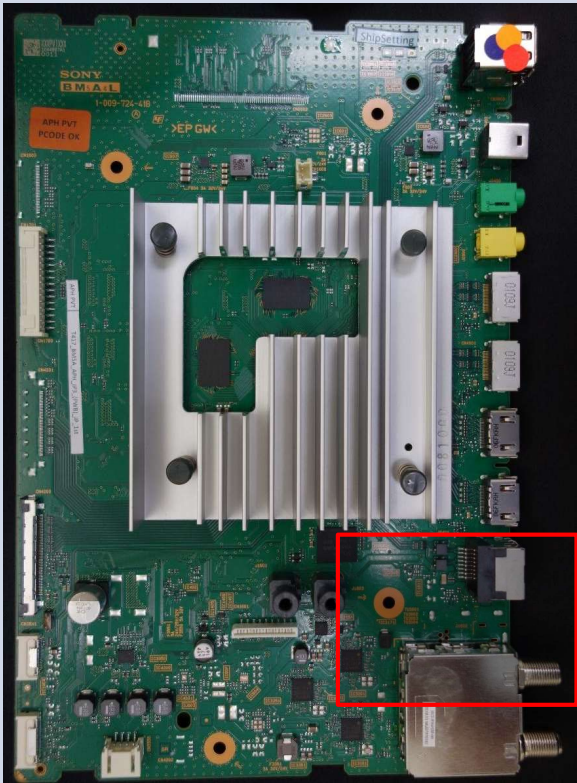
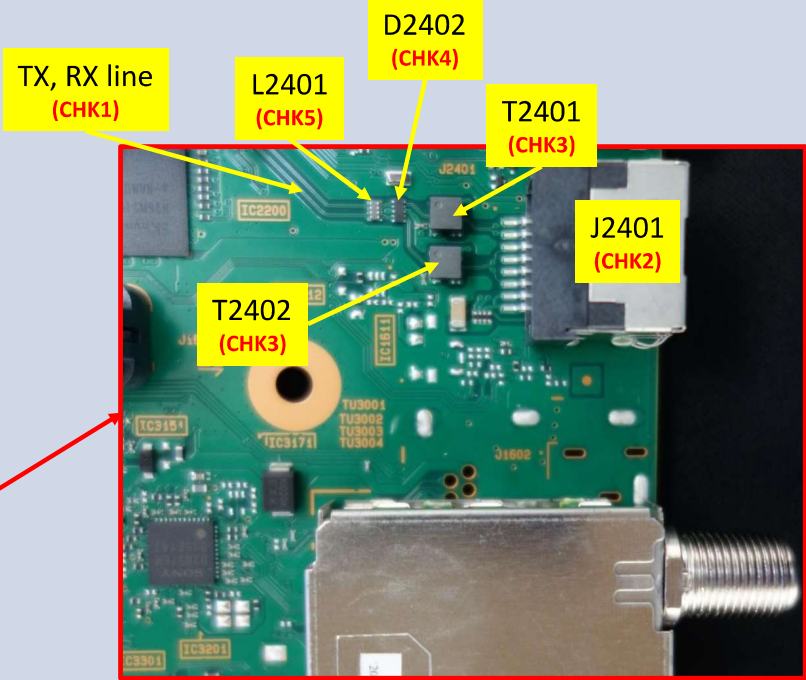
TROUBLESHOOTING

6.0 Network Malfunction: Ethernet (Wired)



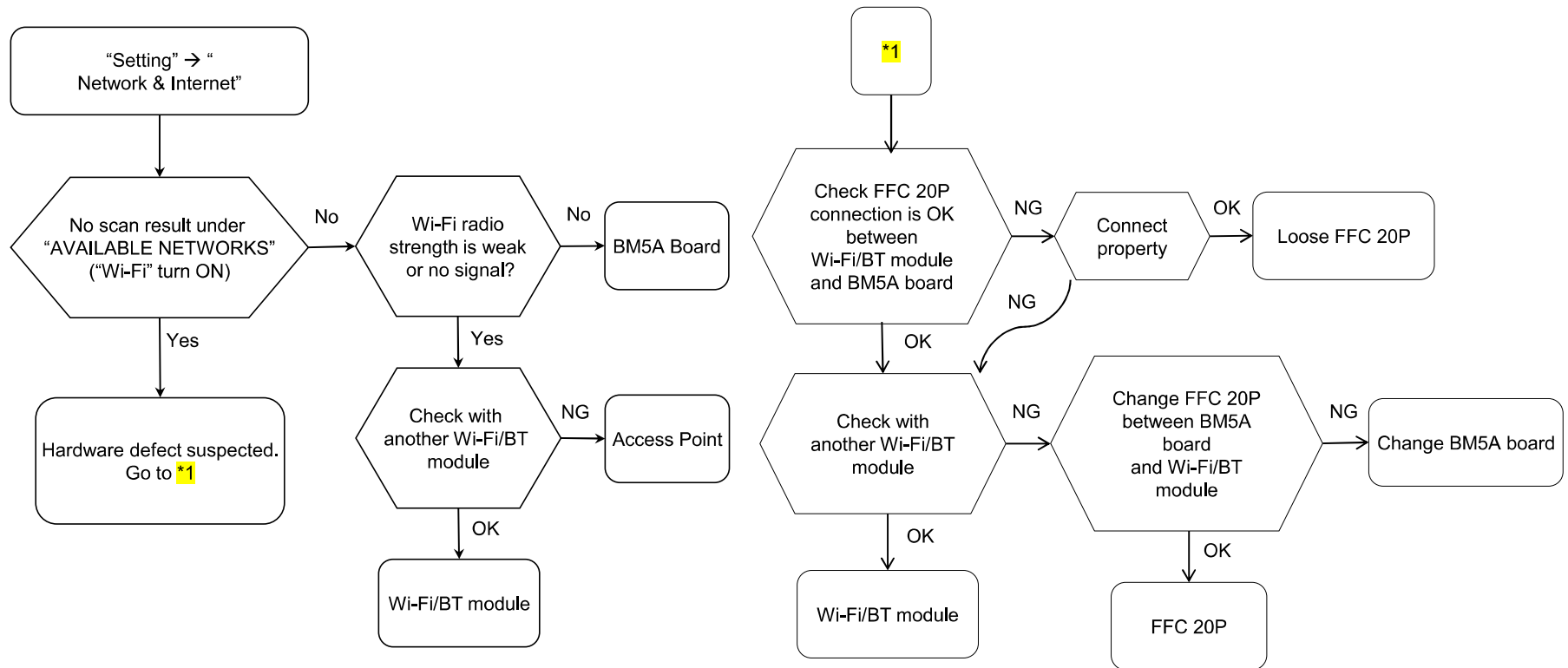
TROUBLESHOOTING

6.0 Network Malfunction: Ethernet (Wired)

Name	Full Board (A side)	Zoomed in view
BM5A (Actual board)		

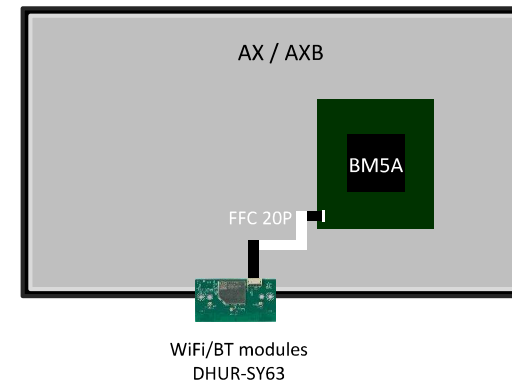
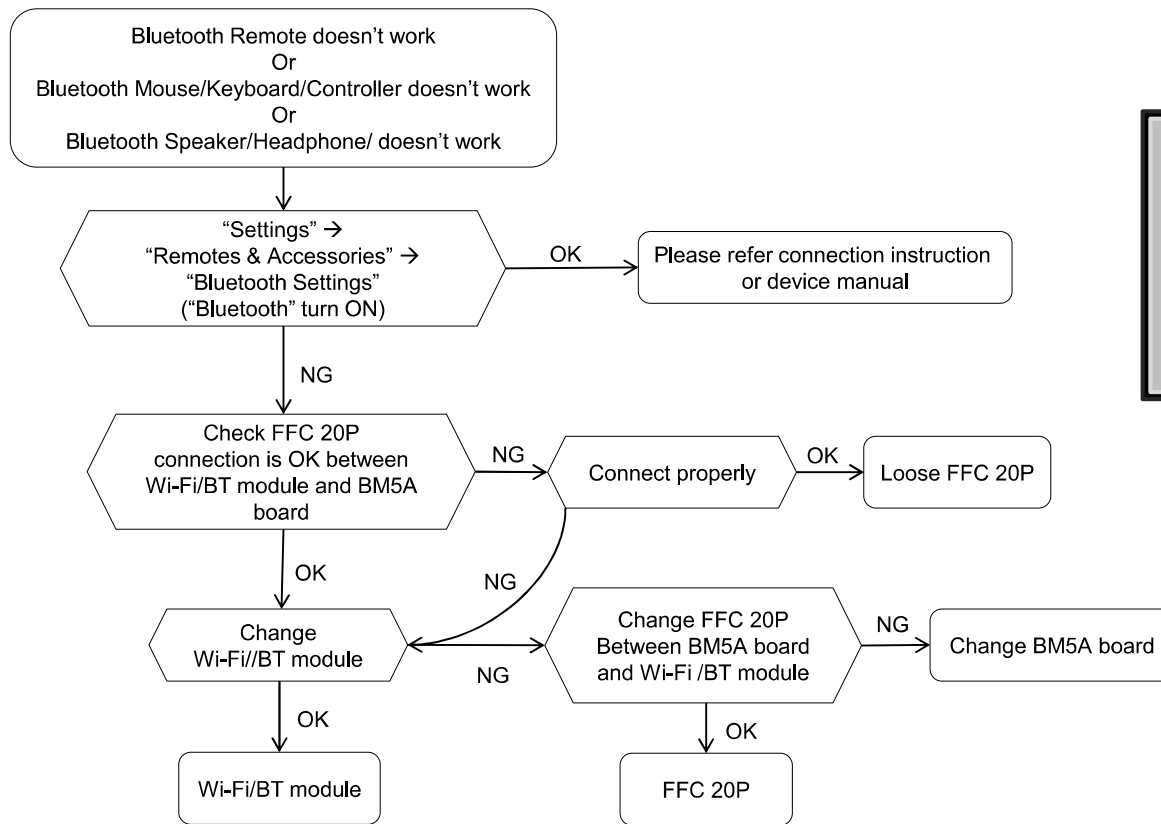
TROUBLESHOOTING

6.2 Wi-Fi_BT - Wireless Network malfunction



TROUBLESHOOTING

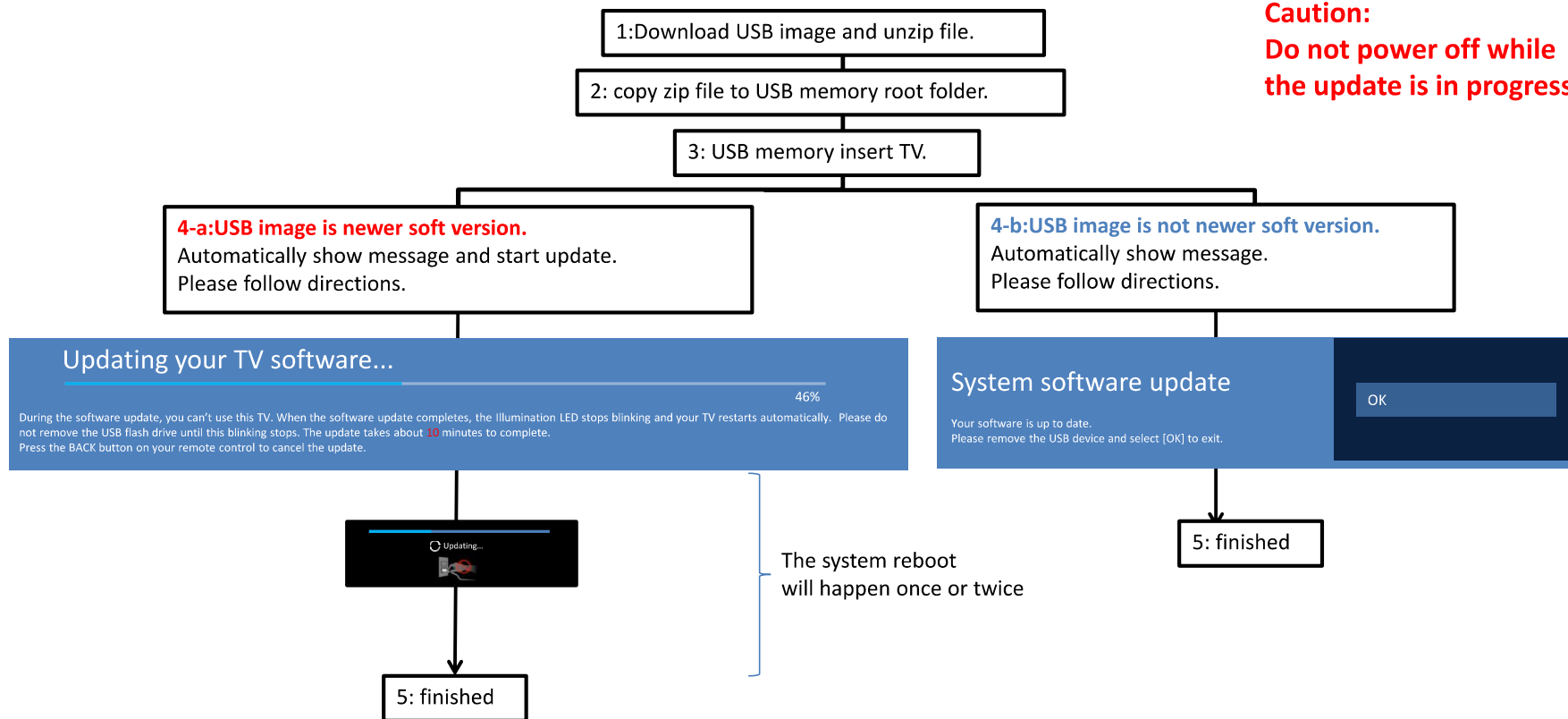
6.3 Wi-Fi_BT - Bluetooth malfunction



SOFTWARE UPDATE & RESET

USB Update

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

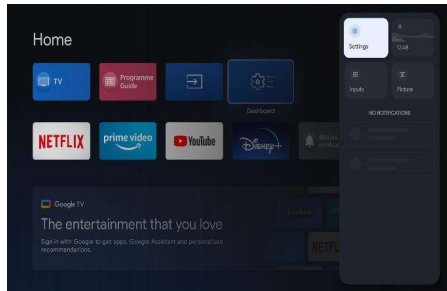


※ Display may change depending on the model / SW version.

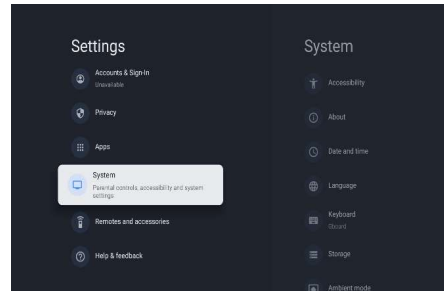
SOFTWARE UPDATE & RESET

Factory Data Reset – with UI method

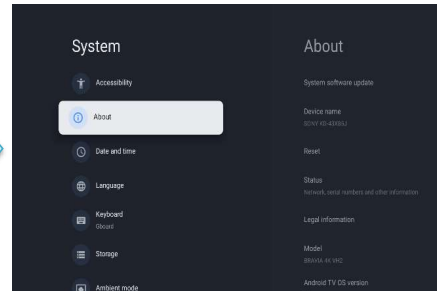
1) At Home Menu, go to Settings



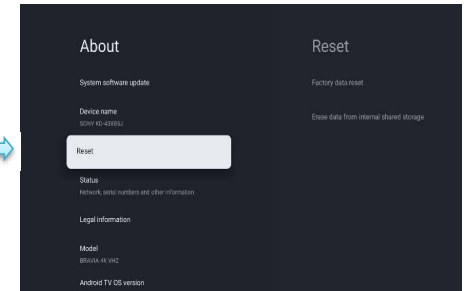
2) Select System/Device Preferences



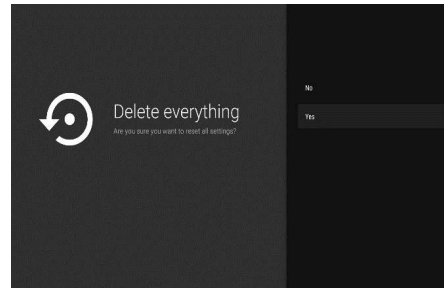
3) Select 'About'



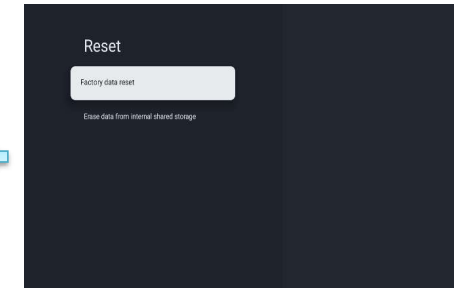
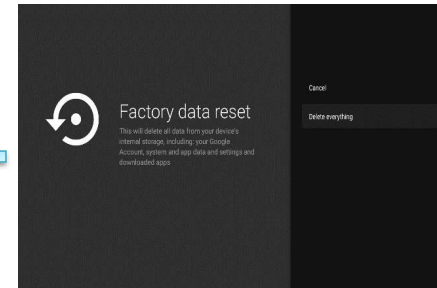
4) In About, Select 'Reset'



7) Select 'Yes'



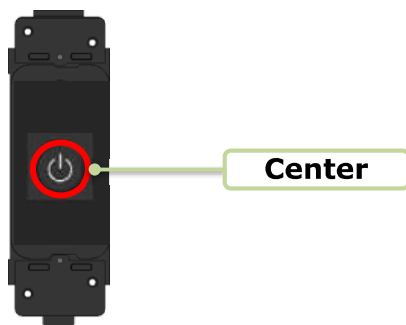
6) Select 'Delete everything'




SOFTWARE UPDATE & RESET

Factory Data Reset – force method (without UI)

1. Press “Center” key” key

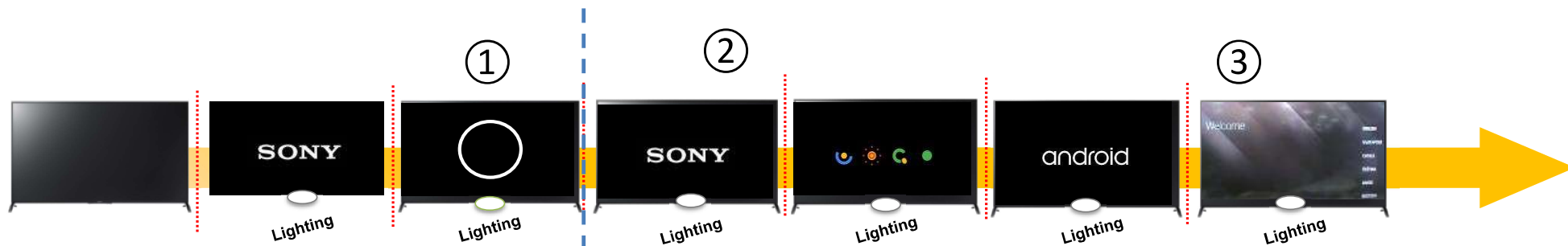


2. AC on (while holding “Center” keys) for more 5second

	1 Key
Key type	 Center Key
Models	AX / AXB
Procedure	1) Press and hold Center Key . 2) AC ON. 3) Hold the button for more 5 seconds until the system starts FDR.

SOFTWARE UPDATE & RESET

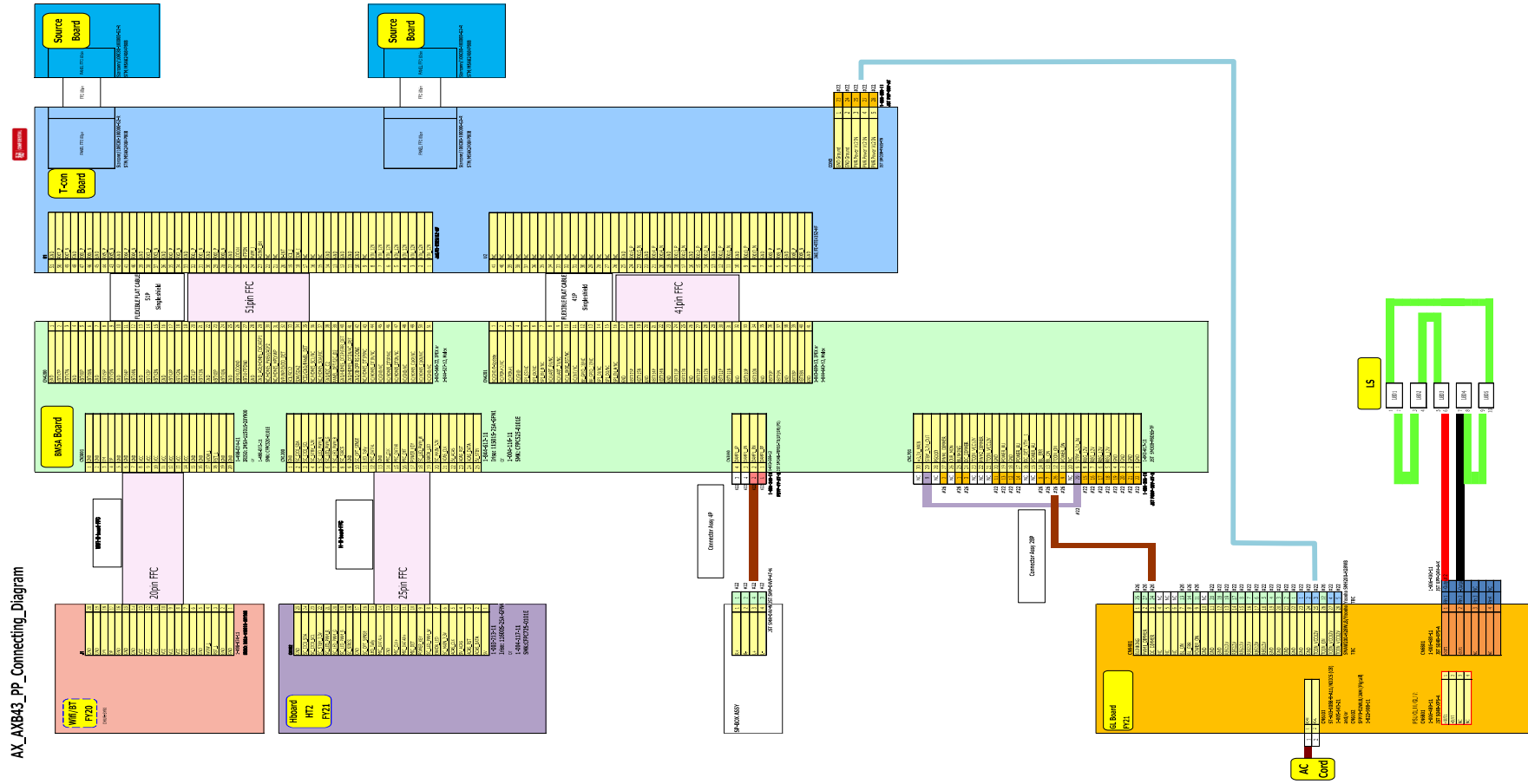
TV behavior during Factory Data Reset operation



- ① TV reboot with White LED
- ② Factory Reset logo start
- ③ TV start with Initial setup condition

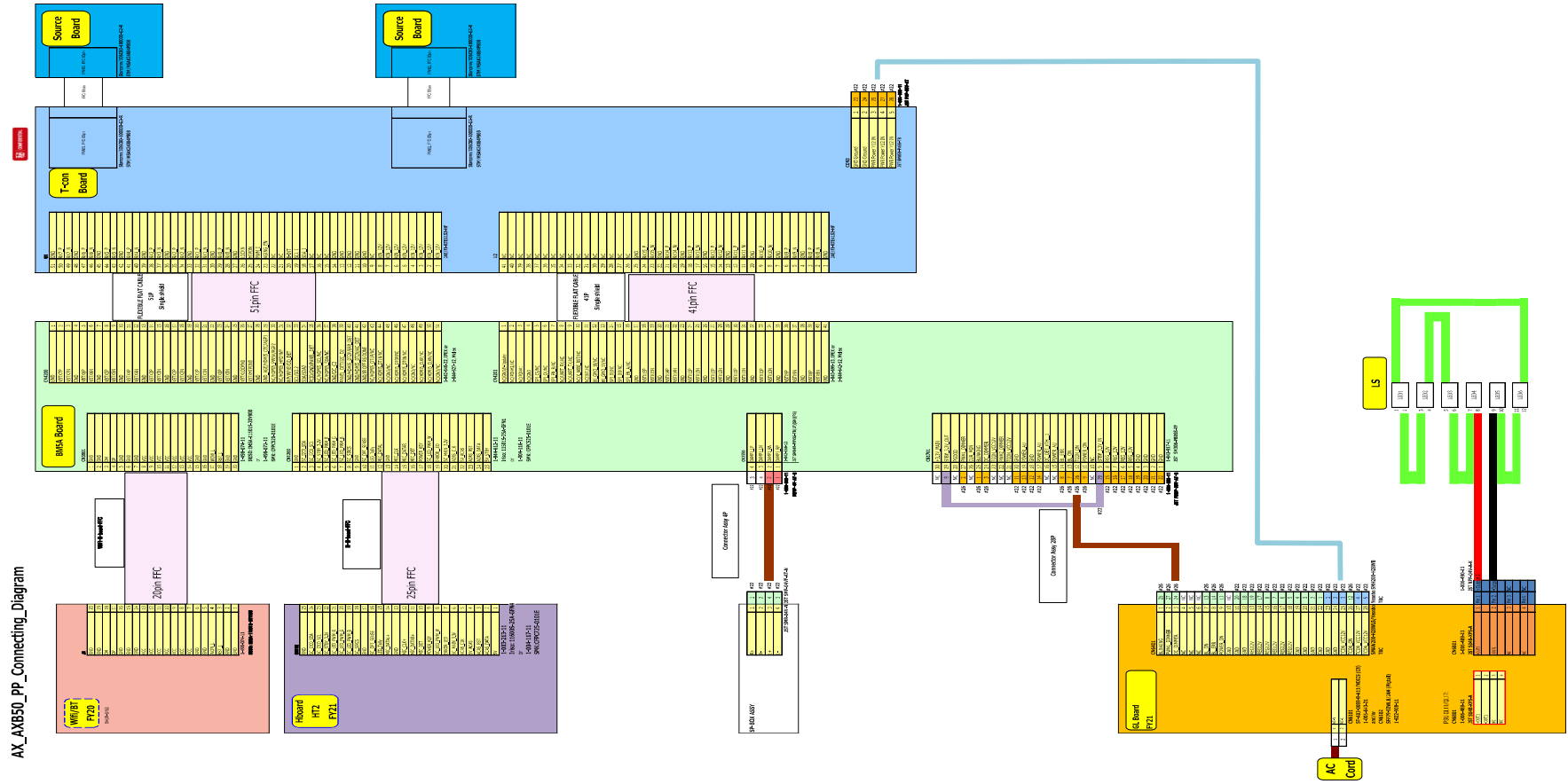
DIAGRAMS

43 Connecting Diagram



DIAGRAMS

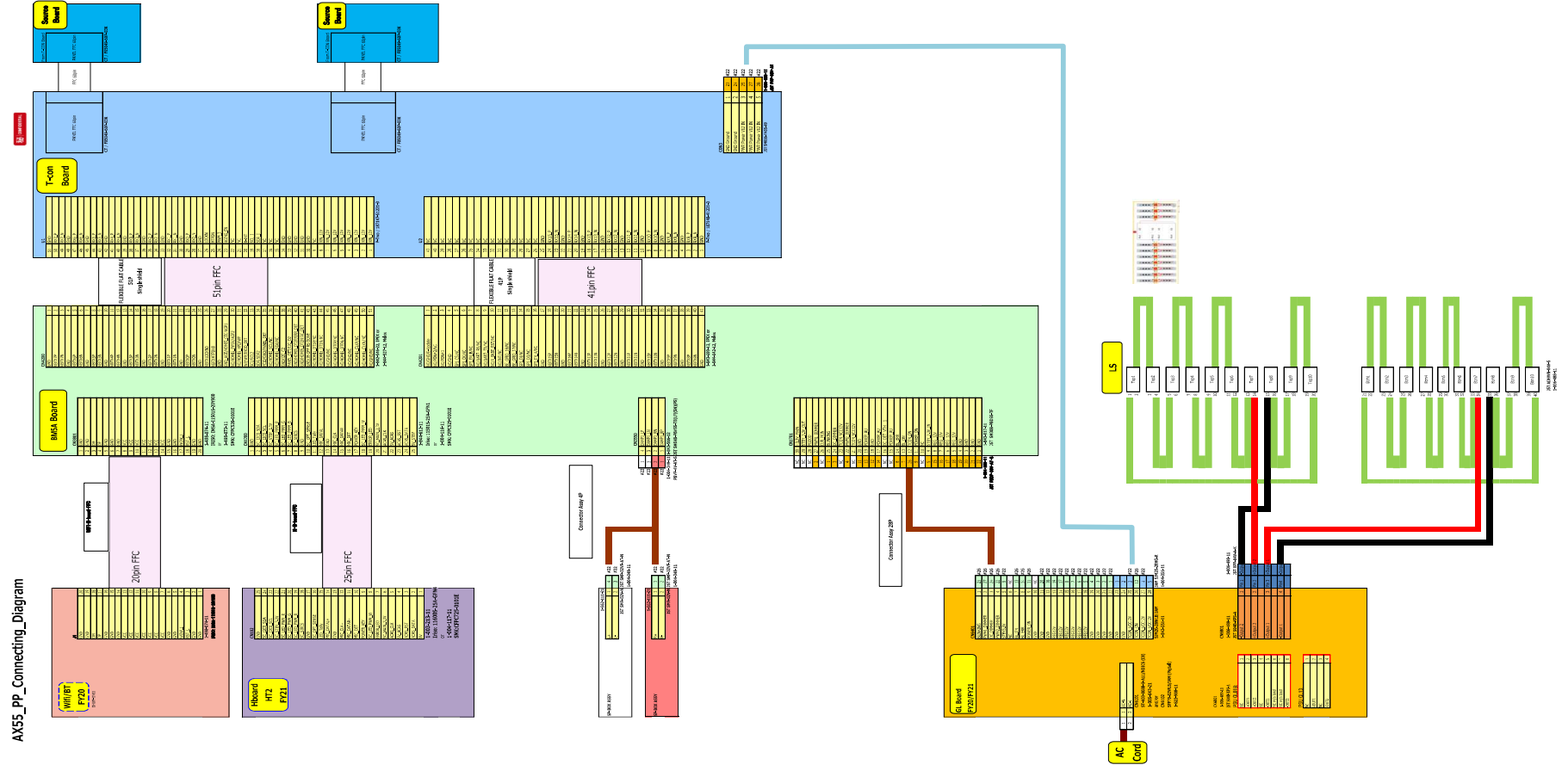
50 Connecting Diagram



AX_AX850_PP_Connecting_Diagram

DIAGRAMS

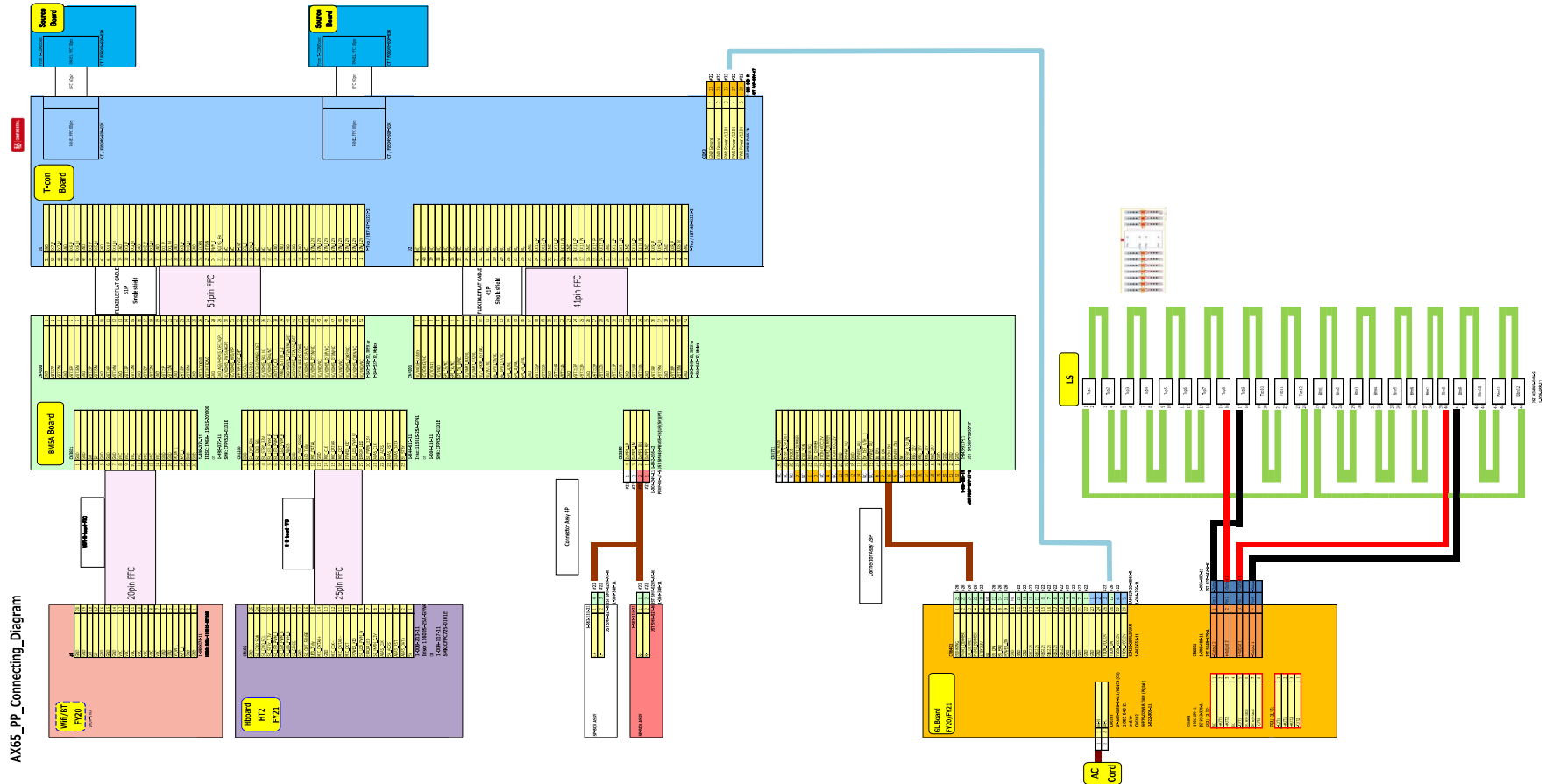
55 Connecting Diagram



AX55_PP_Connecting_Diagram

DIAGRAMS

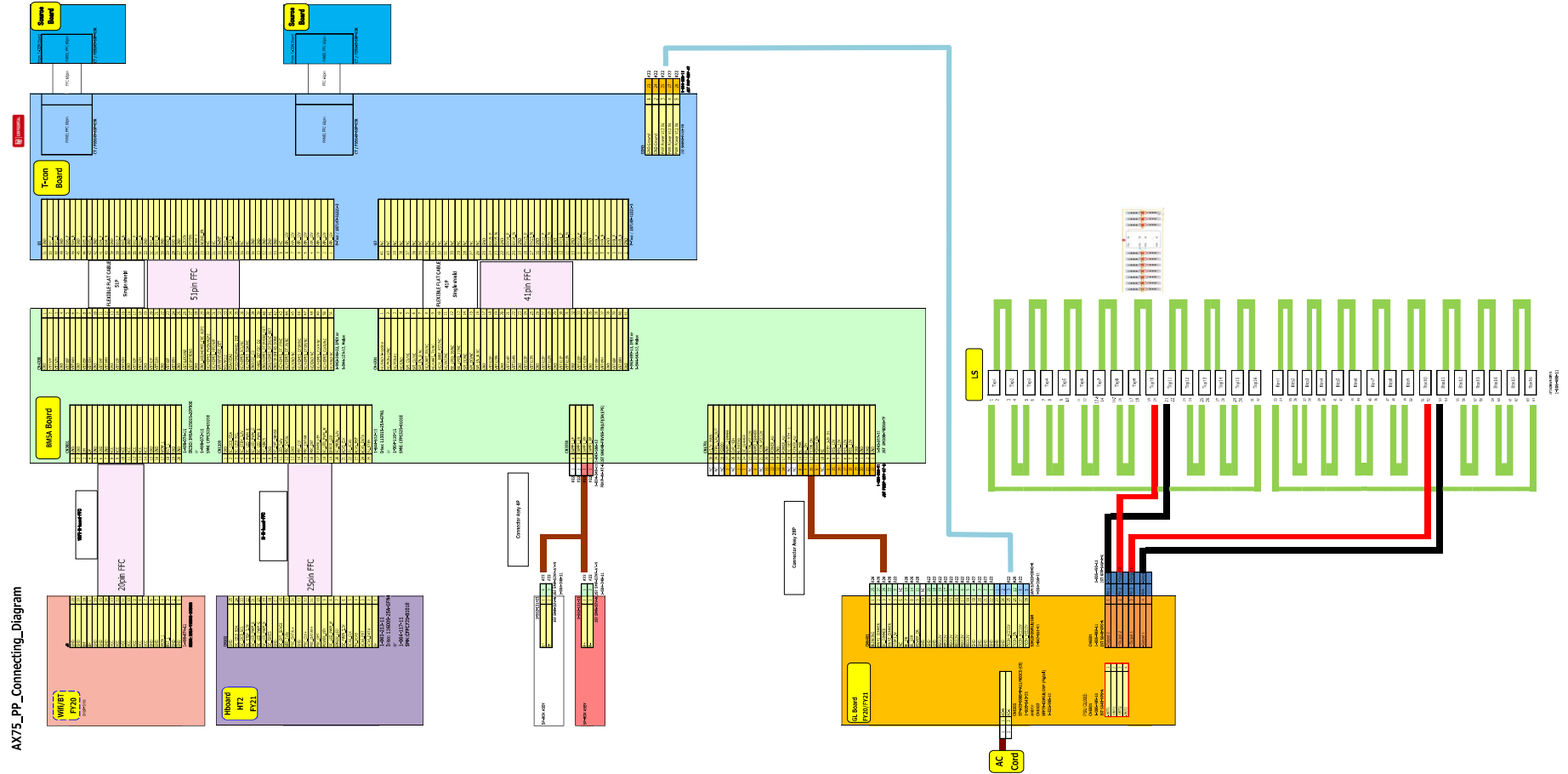
65 Connecting Diagram



AX65_PP_Connecting_Diagram

DIAGRAMS

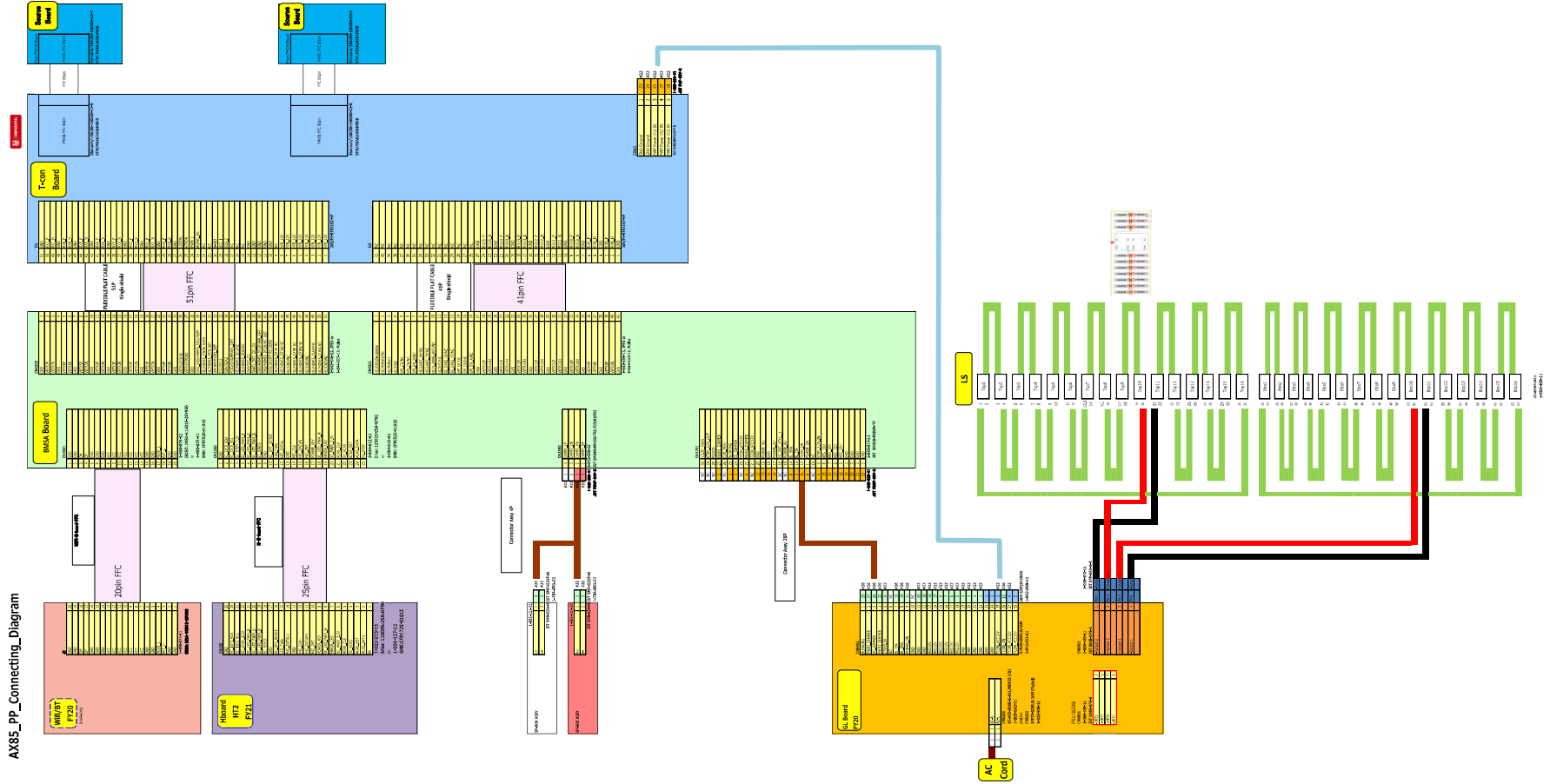
75 Connecting Diagram



AX75_PP_Connecting_Diagram

DIAGRAMS

85 Connecting Diagram



AX85_PP_Connecting_Diagram

PANEL HANDLING

Holding Position



Always wear gloves during P-mod handling



Holding edge of Bezel without touching O-cell



Hand pressing O-Cell



Support set at edge of Bezel without touching O-cell



Hand pressing O-Cell

HANDLING GUIDE

Panel Handling Guide 2 – Carry Position

OK



Carry P-mod by vertical position

NG



Carry P-mod by Horizontal position

HANDLING GUIDE

Panel Handling Guide 3 – Carry Condition

OK

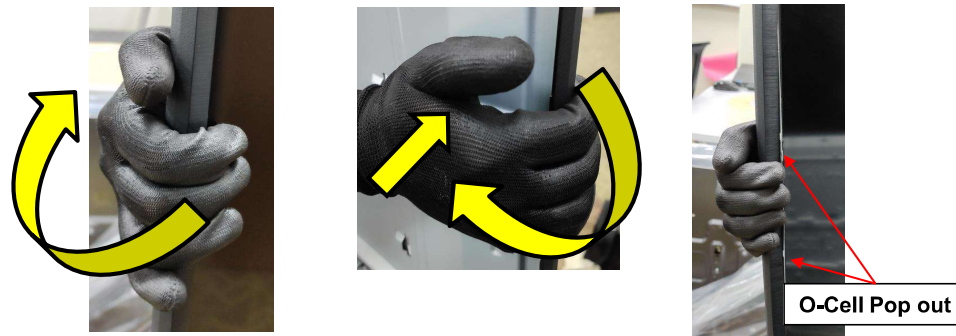


Carry P-mod by 2 person

NG



Carry P-mod by 1 person



Do not apply force on Back Chassis and rotate the Bezel
→ Can cause O-cell to pop out

HANDLING GUIDE

Panel Handling Guide 4 – Carry Condition

OK



Carry P-mod by Corner

NG



Carry P-mod at center area

HANDLING GUIDE

Panel Handling Guide 5 – Resting condition

OK



Resting P-mod by 2 persons

NG



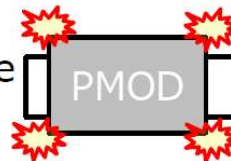
Resting P-mod by 1 person

Table



Panel can be fully supported by table surface

Table



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

HANDLING GUIDE

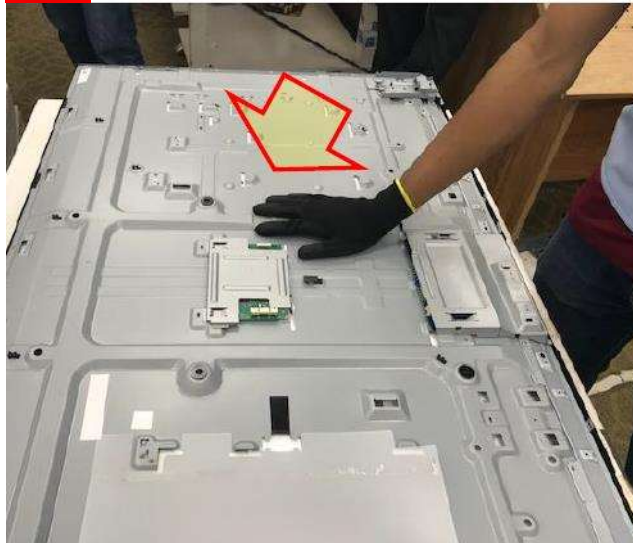
Panel Handling Guide 6 – Prohibited method

NG



Handle P-mod without gloves

NG



Press on P-mod during Assy & Disassy

HANDLING GUIDE

Panel Handling Guide 7 – Restricted area

OK



RC hook

Piezo hook
(2
Positions
L/R)

NG



Touch on PIEZO hook



Touch on RC hemming

Avoid touch Piezo hook and rear cover hook during P-mod handling

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

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

9-888-796-21

English
© 2023.12

SYS SET

SERVICE MANUAL (DISASSEMBLY)

ORIGINAL MANUAL ISSUE DATE: 2023.12

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

9-888-796-U1

LCD TV
LCD MONITOR
SONY[®]

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

MODEL LISTS

<u>Model</u>	<u>Remote</u>	<u>Destination</u>
KD-43X85J	RMF-TX520U	UCM
KD-50X85J	RMF-TX520U	UCM
KD-55X85J	RMF-TX520U	UCM
KD-65X85J	RMF-TX520U	UCM
KD-75X85J	RMF-TX520U	UCM
KD-85X85J	RMF-TX520U	UCM
FW-43BZ35J	RMT-TB400U	UCF
FW-50BZ35J	RMT-TB400U	UCF

Remote

RMF-TX520U



RMT-TB400U



Self Diagnosis
Supported model

SONY

TABLE OF CONTENTS

<u>Title</u>	<u>Page</u>	<u>Title</u>	<u>Page</u>
TOOLS & EQUIPMENT	4		
SECTION 1 : KD-43X85J / FW-43BZ35J		SECTION 5 : KD-75X85J	
1-1 DISASSEMBLY AND REMOVAL CAUTION	5	5-1 DISASSEMBLY AND REMOVAL CAUTION	91
1-2 BOARD LOCATION	12	5-2 BOARD LOCATION	98
1-3 WIRE DRESSING	13	5-3 WIRE DRESSING	99
1-4 EXPLODED VIEW AND PART LIST	19	5-4 EXPLODED VIEW AND PART LIST	108
SECTION 2 : KD-50X85J / FW-50BZ35J		SECTION 6 : KD-85X85J	
2-1 DISASSEMBLY AND REMOVAL CAUTION	25	6-1 DISASSEMBLY AND REMOVAL CAUTION	113
2-2 BOARD LOCATION	32	6-2 BOARD LOCATION	118
2-3 WIRE DRESSING	33	6-3 WIRE DRESSING	119
2-4 EXPLODED VIEW AND PART LIST	40	6-4 EXPLODED VIEW AND PART LIST	129
SECTION 3 : KD-55X85J		SMART CORE	134
3-1 DISASSEMBLY AND REMOVAL CAUTION	47		
3-2 BOARD LOCATION	54	<p><u>Please refer Service Manual (Troubleshooting) for below information:</u></p> <ul style="list-style-type: none"> ▪ General Safety Notes ▪ Self Diagnostic Function ▪ Triage Chart ▪ Troubleshooting, Troubleshooting reference ▪ Software Update & Reset ▪ Diagram: Connector Diagram ▪ Panel and TV Set Handling 	
3-3 WIRE DRESSING	55		
3-4 EXPLODED VIEW AND PART LIST	64		
SECTION 4 : KD-65X85J		<p><u>Note: Pictures provided in this manual may have difference from actual sets.</u></p>	
4-1 DISASSEMBLY AND REMOVAL CAUTION	69		
4-2 BOARD LOCATION	76		
4-3 WIRE DRESSING	77		
4-4 EXPLODED VIEW AND PART LIST	86		

TOOLS & EQUIPMENTS

1 LIST OF ITEMS TO PREPARE

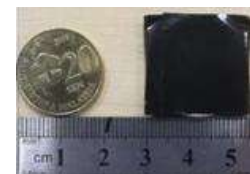
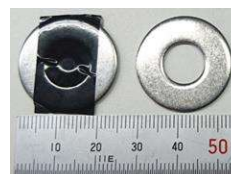
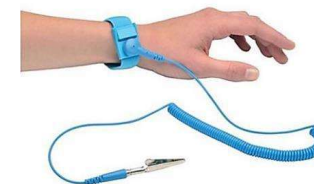
1. Screwdriver (e.g., #2 Phillips Screwdriver)
2. Multimeter
3. ESD Wrist Straps
4. Metal Washer (Flat) or Coin (for remove Rear Cover)
5. Ruler (for remove Rear Cover)
6. Service Manual (Disassembly) (for remove & replace details)

2 OPTIONAL EQUIPMENT

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

3 PREPARATION BEFORE REPAIRS

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



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



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



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE

SECTION 1 KD-43X85J / FW-43BZ35J

1-1. DISASSEMBLY AND REMOVAL CAUTION

Rear Cover

1. Remove screw from rear cover.

Reference	Quantity	Description
●	4	Rear & AC cover screw

2. Unhook bottom hook, starting from center.

Reference	Quantity	Description
□	4	Rear Cover – Bezel hook area

Legend

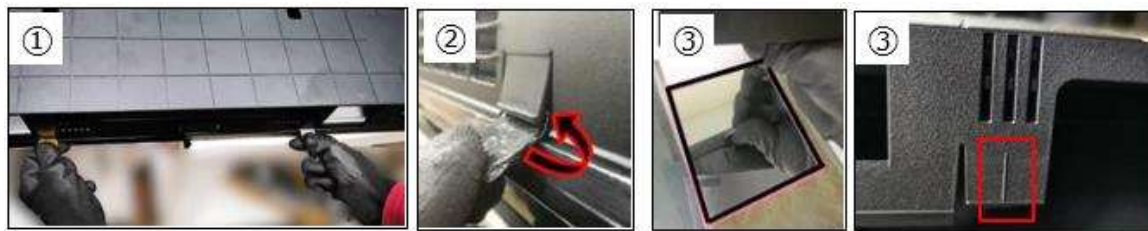
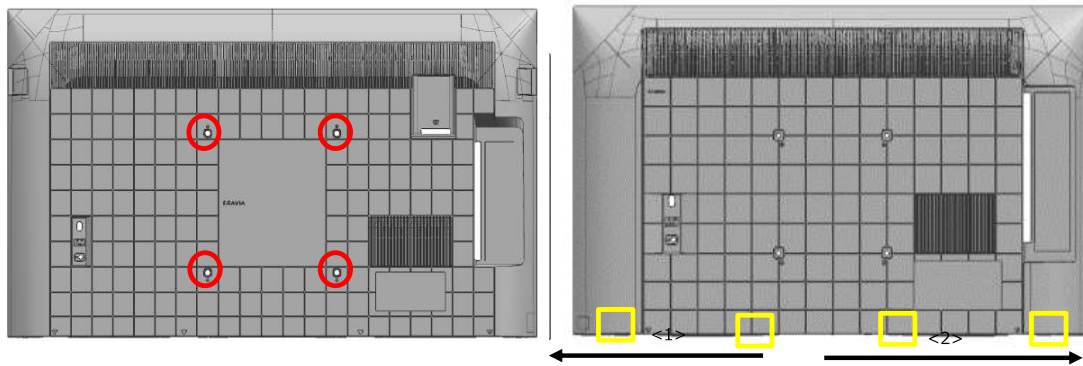
□ =Bottom Back Chassis-Bezel Hook

- ① Unhook hook closest to center to prevent lock back.
(Locate both hooks and unhook using coin/jig)
- ② Refer to next page for the location of hooks.
- ③ Can use mirror to assist locating the hook position.

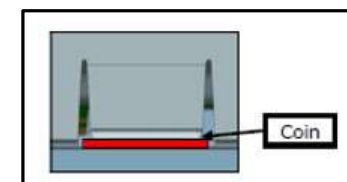
Coin or jig to unhook bottom Rear Cover - Bezel hook

*Wrap coin in tape (55mmX25mm)

*Thickness of coin approximately 2mm



Locate both hooks and unhook using coin/Jig.

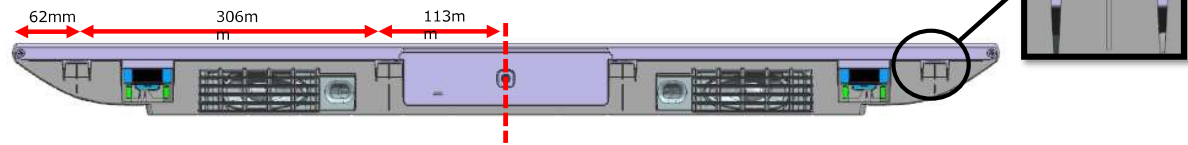


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

SECTION 1 KD-43X85J / FW-43BZ35J

1-1. DISASSEMBLY AND REMOVAL CAUTION

Bottom hook position.



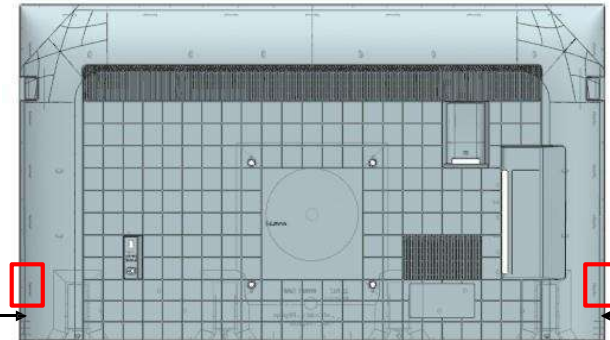
3. Unhook corner hook

Legend

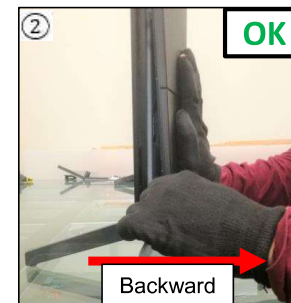
■ = Back Chassis - Rear Cover Hook

Ruler or jig to release corner hook

*Wrap ruler with tape to prevent scratch



- ① When releasing hook, pull the Rear Cover corner and insert jig.
- ② Ensure that the jig is pulled backward.
- ③ Do NOT pivot on bezel when inserting jig.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------



SECTION 1 KD-43X85J / FW-43BZ35J

1-1. DISASSEMBLY AND REMOVAL CAUTION

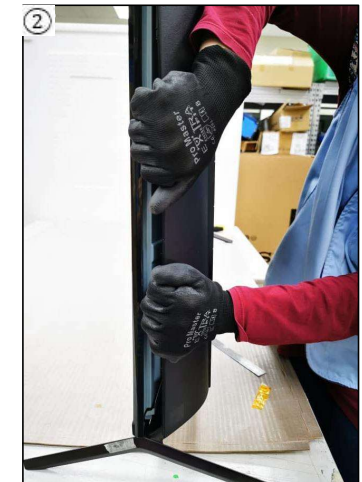
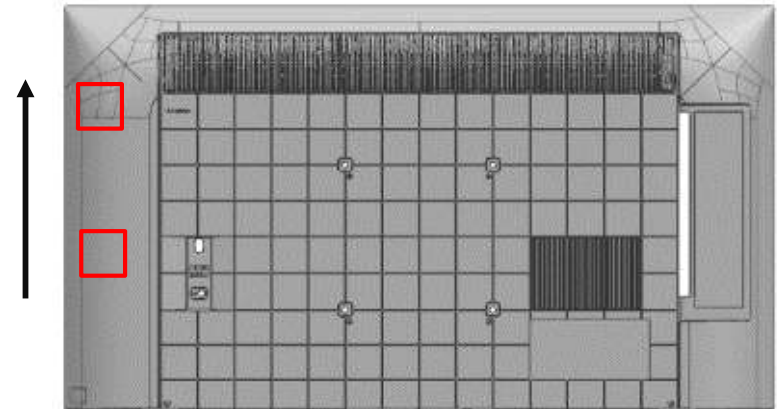
4. Unhook left side hooks

Total Rear Cover Back Chassis :
43" = 2 hooks

Legend

-  =Back Chassis-Rear Cover Hook
-  =Rear Cover-Bezel Hook

- ① Grip Rear Cover with hand and unhook Rear Cover - Bezel hook using ruler/jig.
- ② Flex the Rear Cover outwards to unhook. Support set with arm.



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE




SECTION 1 KD-43X85J / FW-43BZ35J

1-1. DISASSEMBLY AND REMOVAL CAUTION

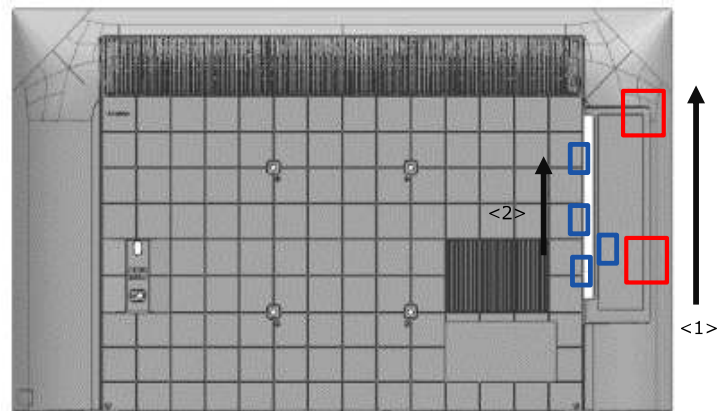
5. Unhook right side hooks

Total Side Bracket hooks : 3 hooks.
Total Rear Cover – Back Chassis Hooks :
43" = 2 hooks

Legend

-  =Back Chassis-Rear Cover Hook
-  =Rear Cover-Bezel Hook
-  =SJB Hook

- ① Unhook side hooks <1>.
- ② Pull Rear Cover below the Side Jack to release the hook <2>.
- ③ Proceed to unhook remaining side hooks <3>.



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE

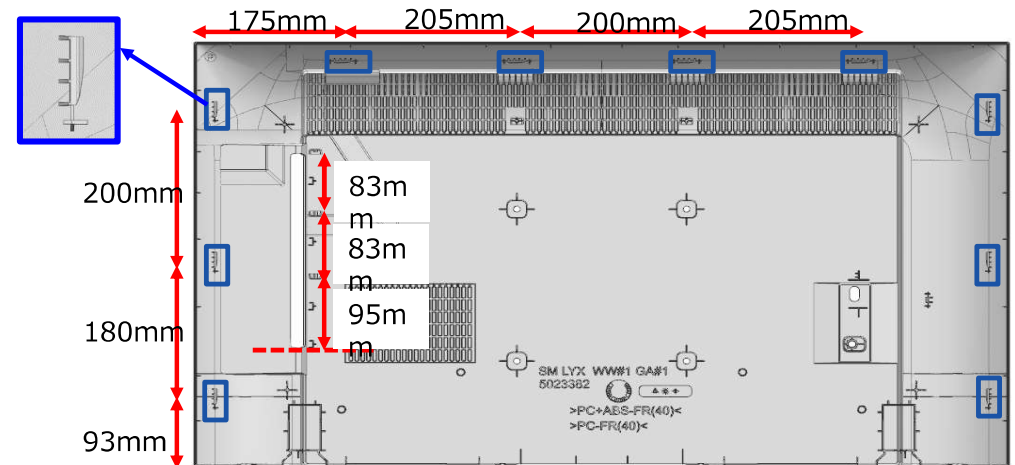
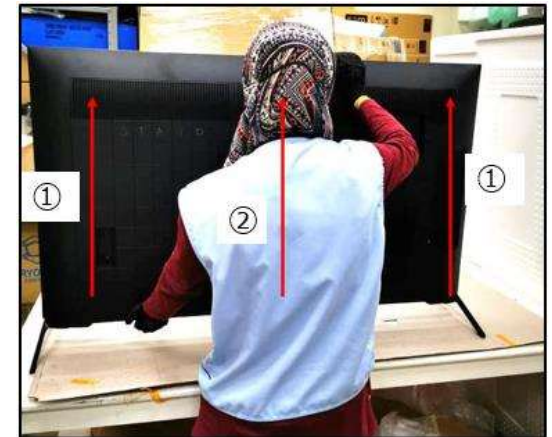
SECTION 1 KD-43X85J / FW-43BZ35J

1-1. DISASSEMBLY AND REMOVAL CAUTION

6. Unhook top row hooks

Total Hooks (Top Row):
43" = 4 hooks

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



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

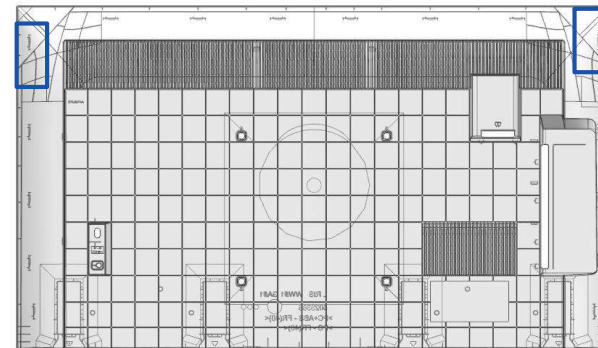
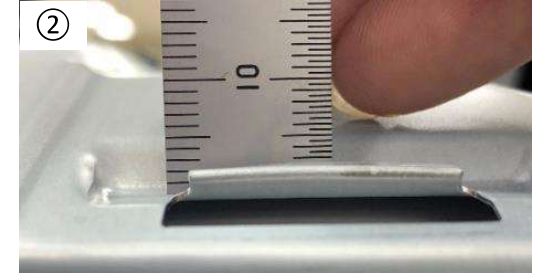
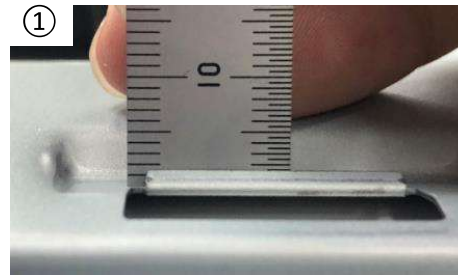
SECTION 1 KD-43X85J / FW-43BZ35J

1-1. DISASSEMBLY AND REMOVAL CAUTION

Caution Point :

- ① Back Chassis in good condition if Top side hook unhook then proceed Top hooks

- ② Back Chassis in good condition if Top side hook unhook then proceed Top hooks



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

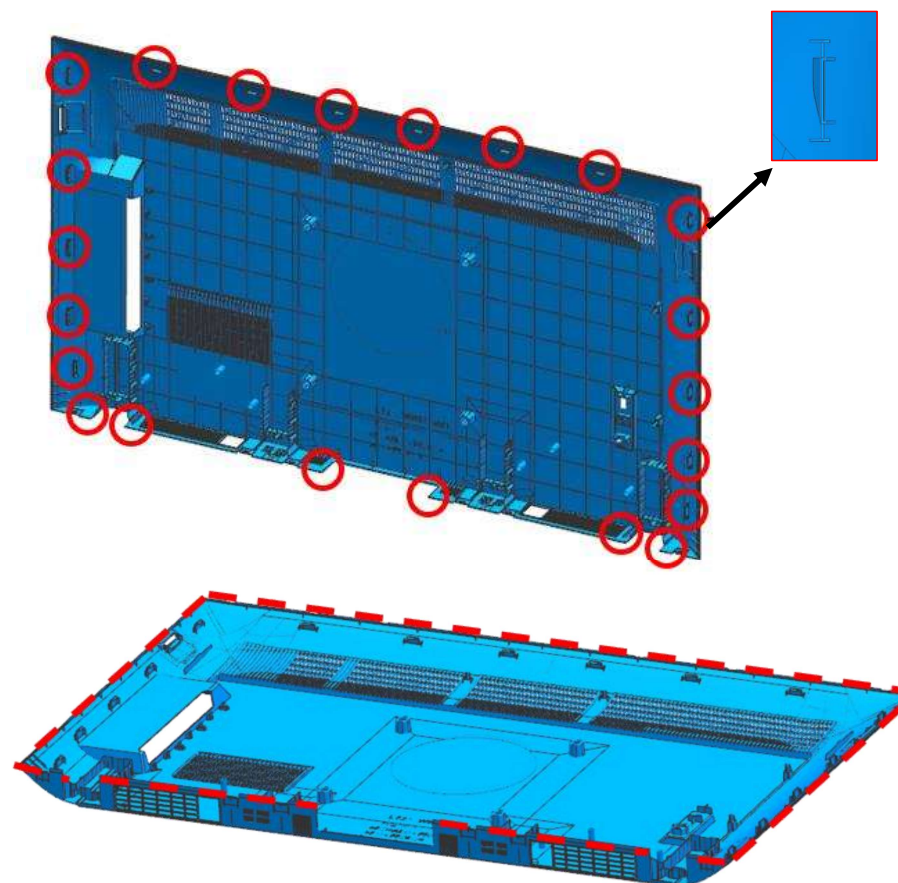
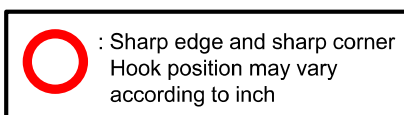
SECTION 1 KD-43X85J / FW-43BZ35J

1-1. DISASSEMBLY AND REMOVAL CAUTION

Sharp Edge Information

Caution Point :

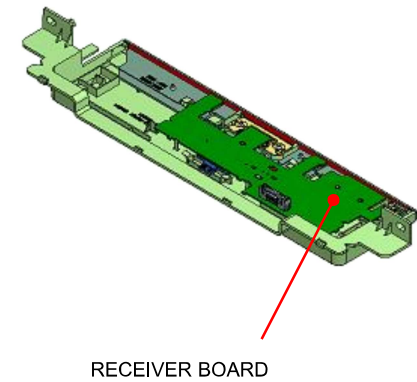
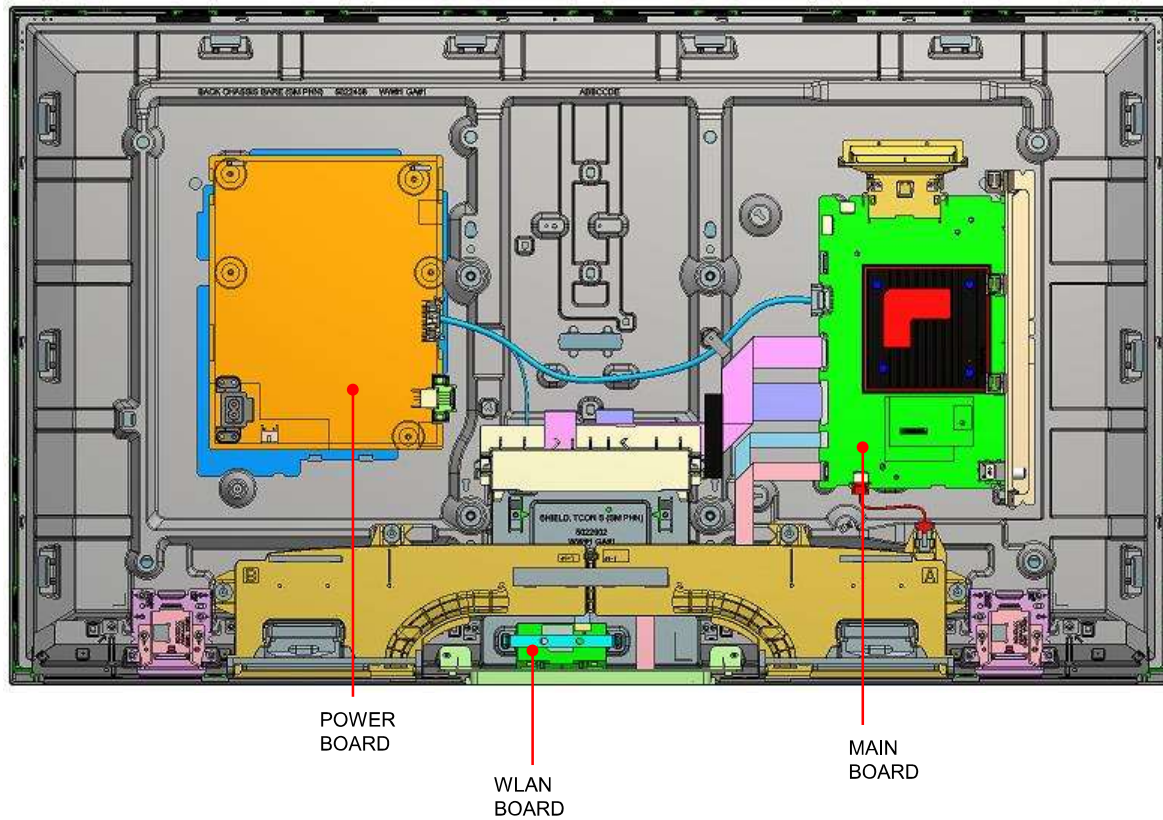
Please wear gloves when removing rear cover to avoid sharp edge at bottom side and hook area as shown in figure.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

SECTION 1 KD-43X85J / FW-43BZ35J

1-2. BOARD LOCATION

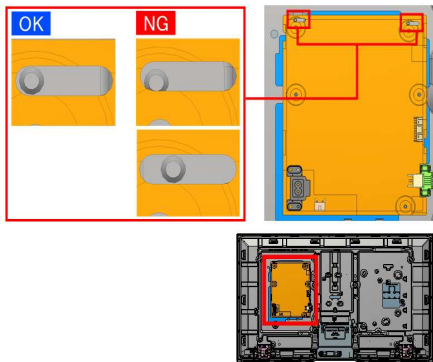


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

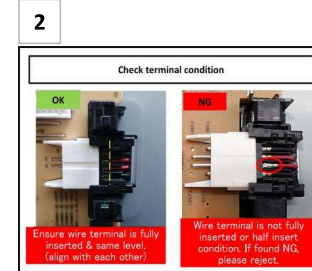
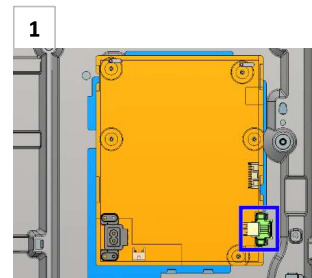
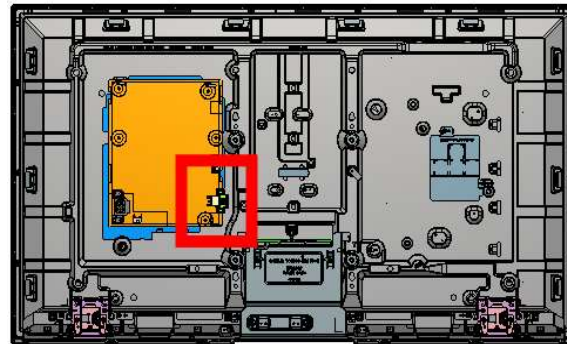
SECTION 1 KD-43X85J / FW-43BZ35J

1-3. WIRE DRESSING

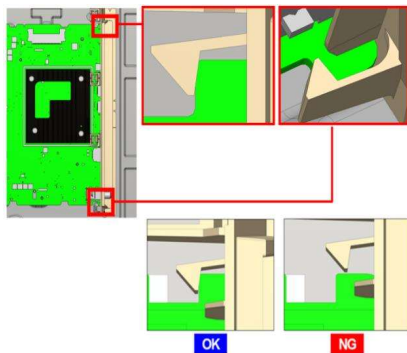
Information



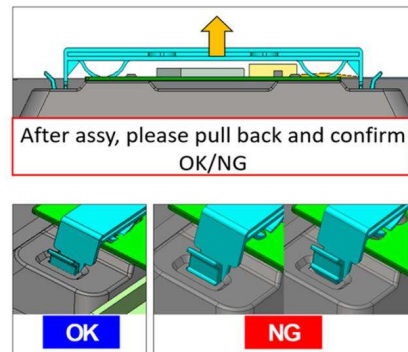
Connect



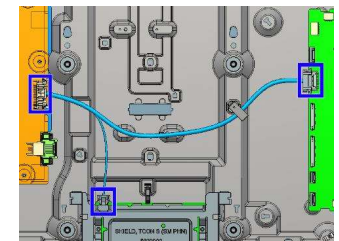
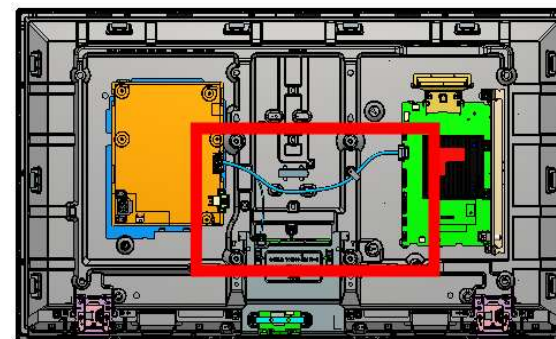
Information



Information



Connect

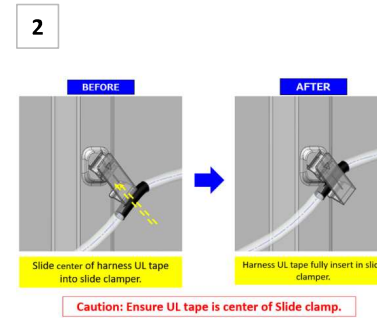
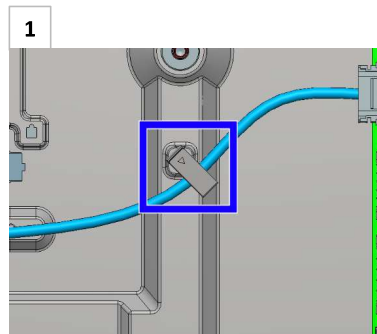
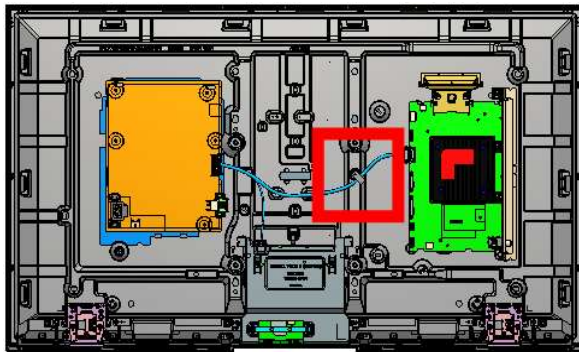


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

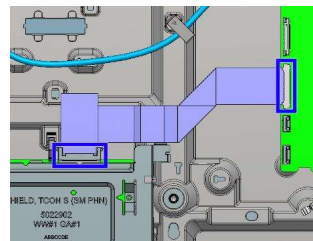
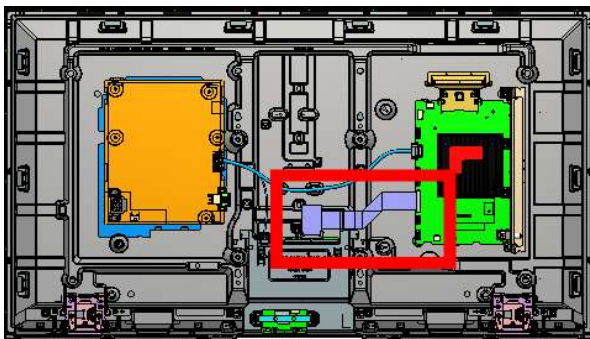
SECTION 1 KD-43X85J / FW-43BZ35J

1-3. WIRE DRESSING

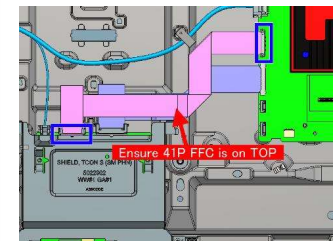
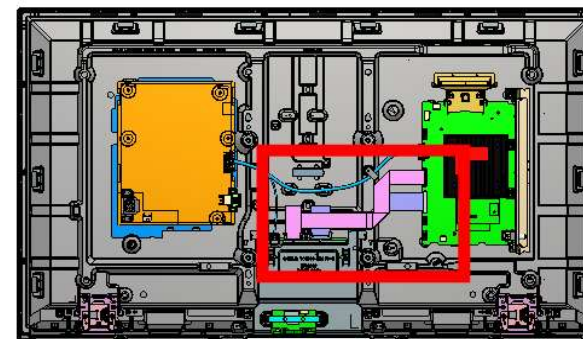
Wire Dressing



Connect



Connect

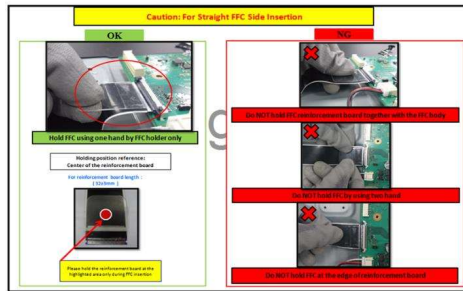


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	-----------	------------

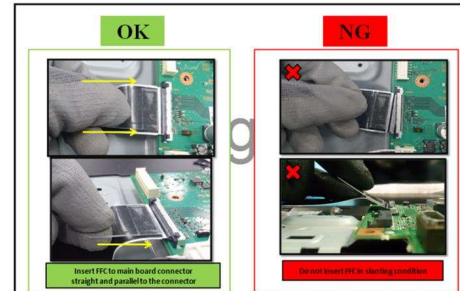
SECTION 1 KD-43X85J / FW-43BZ35J

1-3. WIRE DRESSING

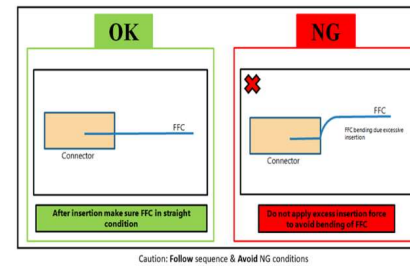
Information



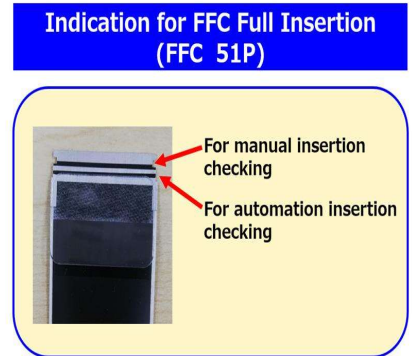
Information



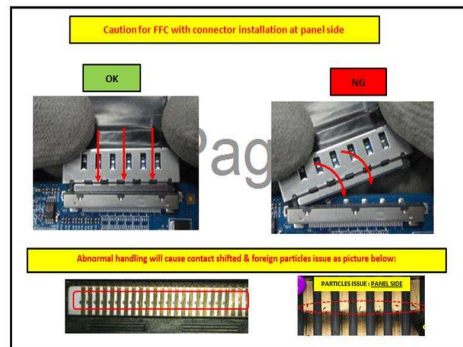
Information



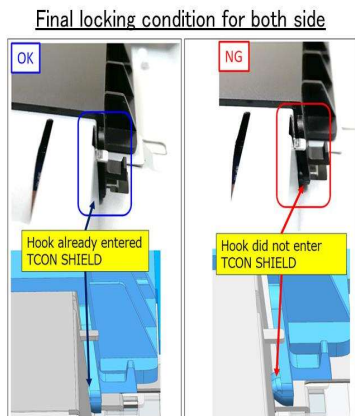
Information



Information



Information



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

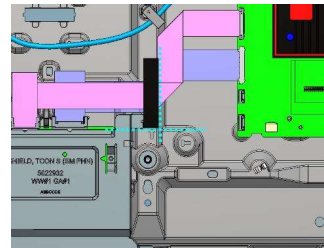
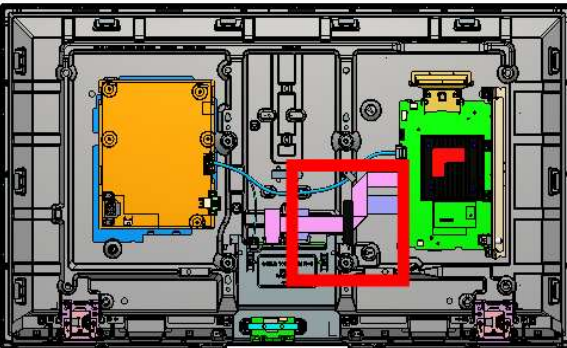
SECTION 6

SMART CORE

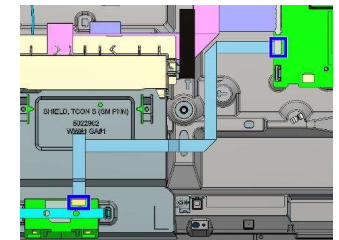
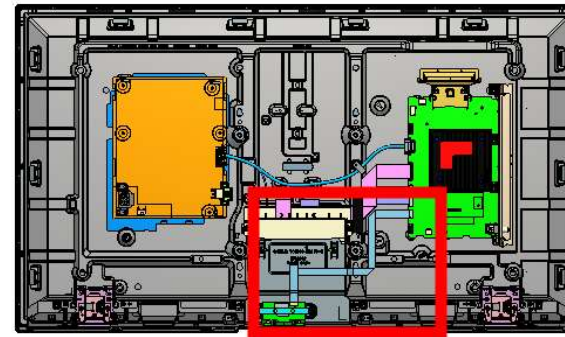
SECTION 1 KD-43X85J / FW-43BZ35J

1-3. WIRE DRESSING

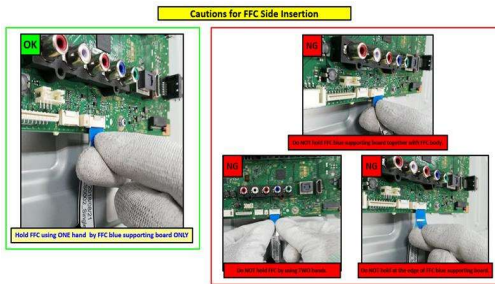
Tape



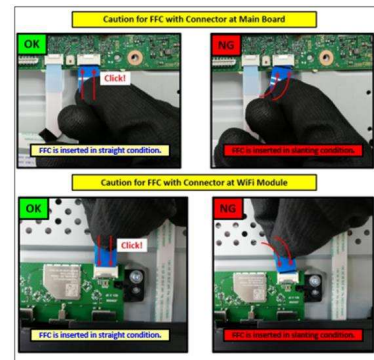
Connect



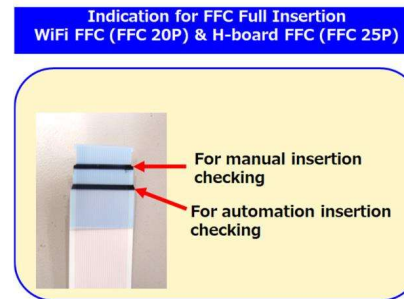
Information



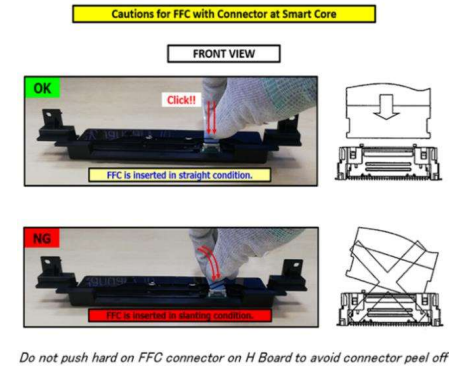
Information



Information



Information

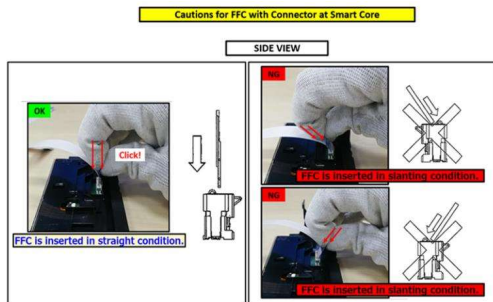


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	-----------	------------

SECTION 1 KD-43X85J / FW-43BZ35J

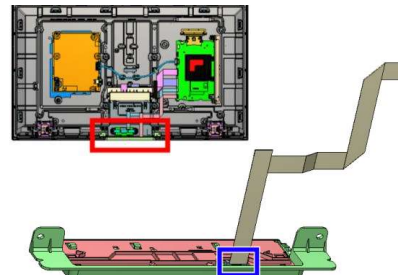
1-3. WIRE DRESSING

Information



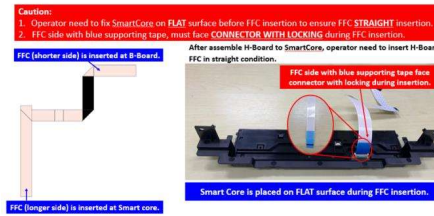
* Do not push hard on FFC connector on H Board to avoid connector peel off

Information

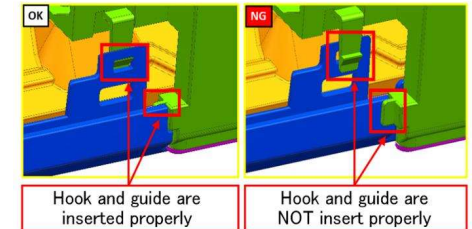


Caution:
Do not bend header on H board while insert FFC.

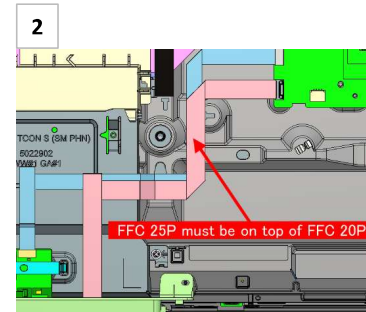
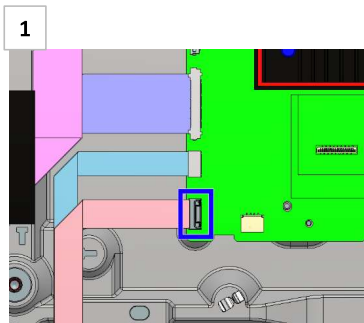
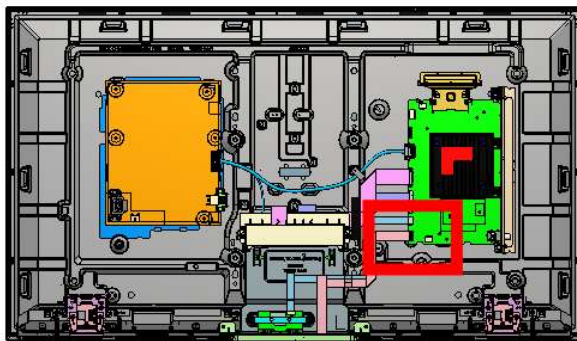
Information



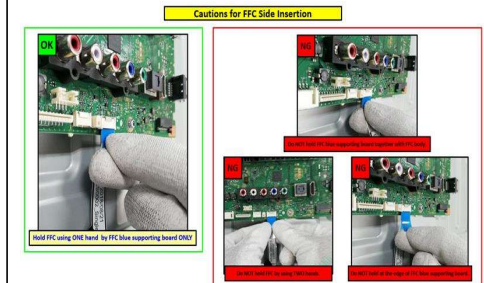
Information



Connect



Information

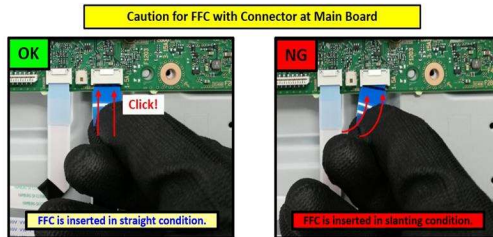


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	-----------	------------

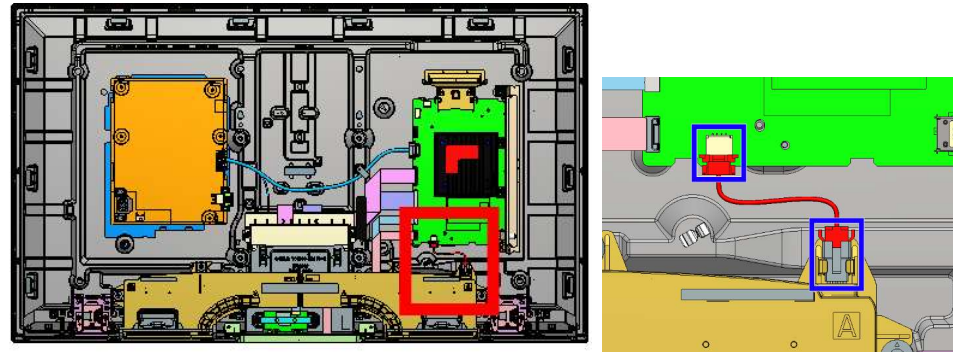
SECTION 1 KD-43X85J / FW-43BZ35J

1-3. WIRE DRESSING

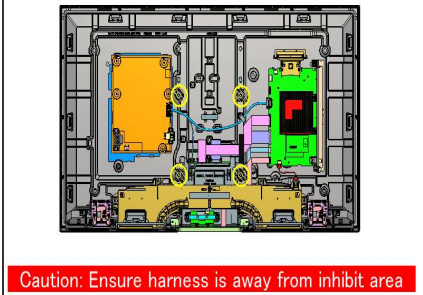
Information



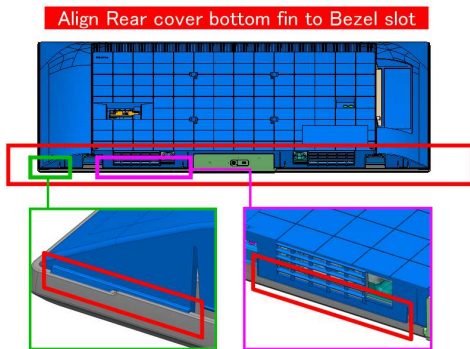
Connect



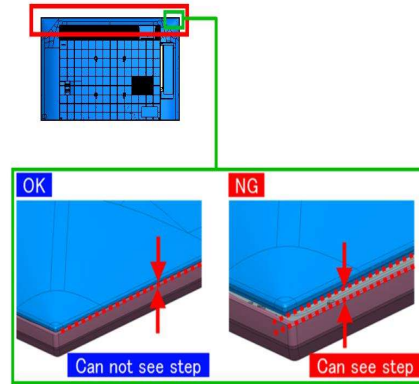
Information



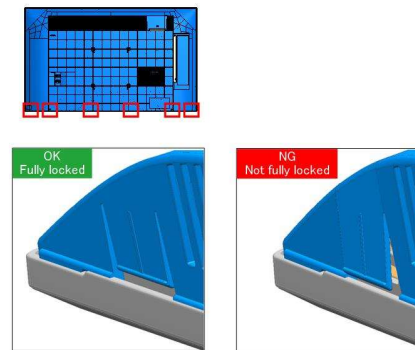
Information



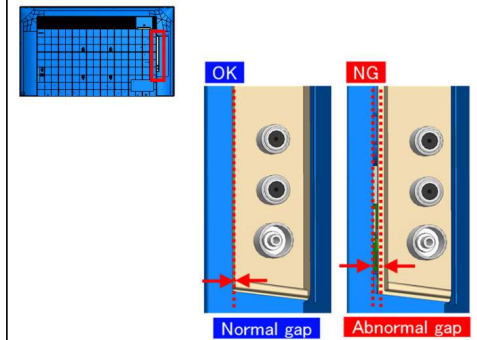
Information



Information



Information



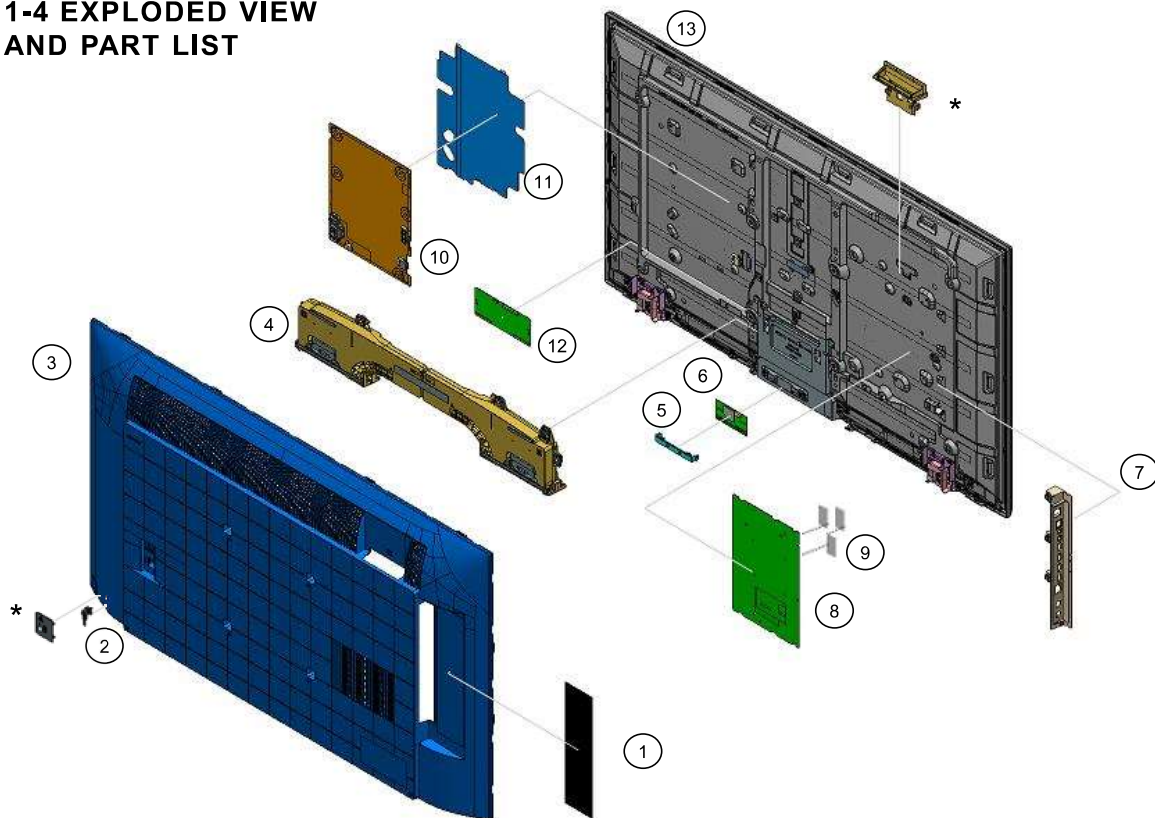
TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

SECTION 1 KD-43X85J / FW-43BZ35J

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

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

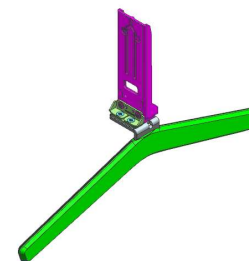
1-4 EXPLODED VIEW AND PART LIST



* Only on limited region / country / TV model

Stand

(14) (15)



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4


SECTION 5

SECTION 6

SMART CORE

SECTION 1 KD-43X85J / FW-43BZ35J

SET PART LIST

REF. NO	PART NO.	DESCRIPTION	KD-43X85J	FW-43BZ35J
			UCM	UCF
1	5-024-894-01	LABEL, SIDE TERMINAL (RIS)	•	n/a
1	5-024-946-11	LABEL, SIDE TERMINAL (RIS)	n/a	•
 2	1-005-642-11	C7L AC POWER CORD SETS (US)	•	•
 2	1-005-634-11	C7L AC POWER CORD SETS (EU)	n/a	•
3	5-029-459-21	REAR COVER ASSY (SM LYX)	•	•
4	1-009-790-11	SP-BOX ASSY,FY21 W30 ONE BOX	•	•
5	5-009-258-11	BRACKET, WIFI(BNN)	•	•
5	5-009-258-21	BRACKET, WIFI(BNN) - Optional	•	•
 6	1-005-419-32	WLAN/BT MODULE(11AC)FXC	•	•
7	5-021-551-31	BRACKET SIDE (BNN) A	•	n/a
7	5-021-551-61	BRACKET SIDE (BNN) A	n/a	•
 8	A-5027-359-A	COMPL_SVC_BM5A_AX_UCM	•	n/a
 8	A-5027-370-A	COMPL_SVC_BM5A_AXB_WW	n/a	•
9	4-457-451-12	SHEET, THERMAL (BAF)	•	•
 10	1-009-799-21	GL11-STATIC CONVERTER (TV)	•	n/a
 10	1-009-799-11	GL11-STATIC CONVERTER (TV)	n/a	•
11	5-023-070-01	SHEET, INSULATION (SM PHN) A	•	•
11	5-023-070-11	SHEET, INSULATION (SM PHN) A- Optional	•	•
12	1-011-389-11	MOUNTED PWB E-T-CON (43)	•	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

SECTION 1
KD-43X85J / FW-43BZ35J

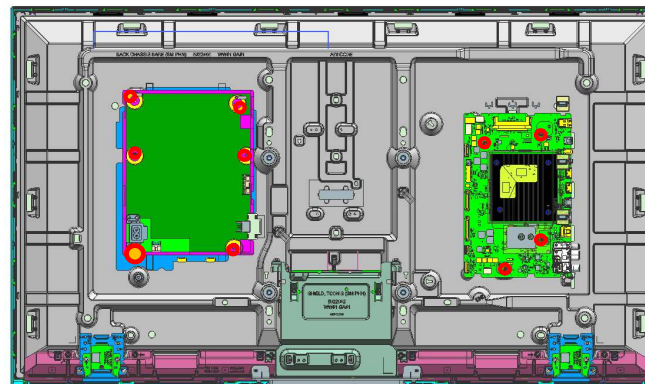
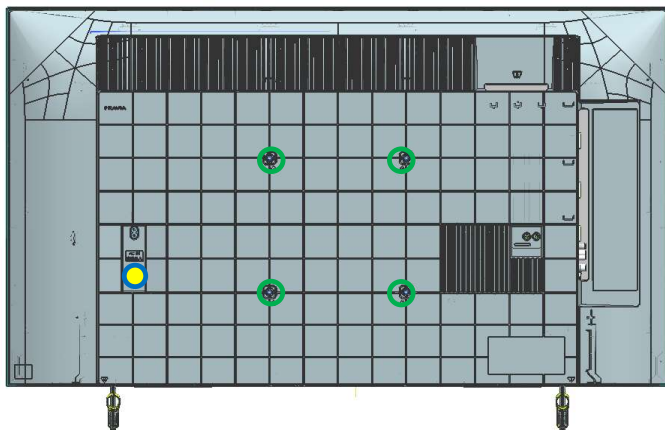
SET PART LIST

REF. NO	PART NO.	DESCRIPTION	KD-43X85J	FW-43BZ35J
			UCM	UCF
⚠ 13	A-5029-025 A	P-MOD(YDBM043CCU01)SVC	•	n/a
⚠ 13	A-5029-364-A	P-MOD (YDBM043CCU01)(SVC)	n/a	•
14	5-022-182-21	STAND, L (SM LYX) A	•	•
15	5-022-183-21	STAND, R (SM LYX) A	•	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

SECTION 1 KD-43X85J / FW-43BZ35J

SCREW

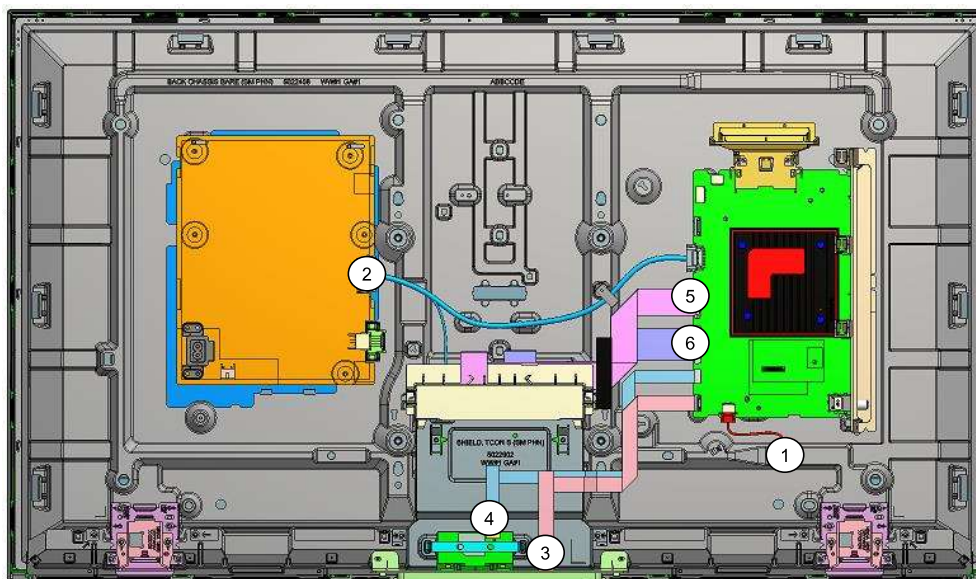


REMARKS	P/N	DESCRIPTION	QTY	TORQUE
●	4-472-518-11	SCREW, +PSW M3X6	9	0.4 ± 0.05 N.m
●	2-580-592-01	SCREW, +PSW M3X8	1	0.4 ± 0.05 N.m
●	4-694-261-01	SCREW, +PSW M5X14	4	1.5 ± 0.1 N.m
●	4-579-926-01	M3x3.0 STEP	1	0.4 ± 0.05 N.m

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

SECTION 1 KD-43X85J / FW-43BZ35J

CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-010-989-12	CONNECTOR ASSY 4P (SP)	CN3550(BM5A)/CN6603(BM5ST)-SP(1)
2	1-011-588-11	CONNECTOR ASSY 30P	CN1701(BM5A)-CN6401(GL)-CON3(TCON)(1)
3	1-010-991-11	FLEXIBLE FLAT CABLE 20P	CN3801(BM5A)-J1(WIFI/BT)(1)
4	1-010-993-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5A)-CN102(HT2)(1)
5	1-011-589-11	FLEXIBLE FLAT CABLE 41P	CN4201(BM5A)-TCON(1)
6	1-011-963-11	FLEXIBLE FLAT CABLE 51P	CN4200(BM5A)-U1(TCON)(1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

SECTION 1 KD-43X85J / FW-43BZ35J

OTHER PARTS

PART NO.	DESCRIPTION	KD-43X85J	FW-43BZ35J	REMARKS
		UCM	UCF	
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	•	
5-022-201-12	BAG, CL ASSY (2L LYX)	•	•	Including CLAMPER (4L BNN) , (Qty 2) & CUSHION CL (LYX) , (Qty 2) .
5-009-030-01	CLAMPER,CABLE L(BNN)	•	•	
4-744-177-01	GASKET SB (3L BGO)	•	•	
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	•	n/a	
1-493-483-11	REMOTE COMMANDER (RMT-TB400U)	n/a	•	
*5-024-884-11	REFERENCE GUIDE	•	n/a	
*5-027-091-12	REFERENCE GUIDE	n/a	•	
*5-027-095-11	SETUP GUIDE	n/a	•	
*5-024-888-11	SETUP GUIDE	•	n/a	
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	•	
5-027-414-01	VESA SPACER S A (COM)	•	•	Screw Extension for Fall Lock and Wall Mount , (Qty 1) .

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	------------------	-----------	-----------	-----------	-----------	-----------	------------

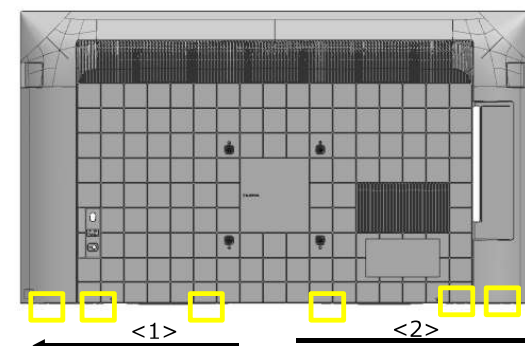
SECTION 2 KD-50X85J / FW-50BZ35J

2-1. DISASSEMBLY AND REMOVAL CAUTION

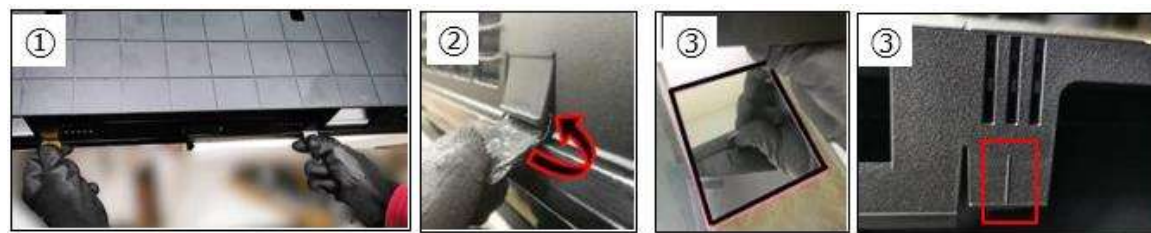
Rear Cover

1. Remove screw from rear cover.

2. Unhook bottom hook, starting from center.

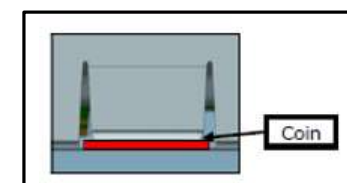


- ① Unhook two hooks closet to center simultaneously to prevent lock back.
- ② Refer to next page for the location of hooks.
- ③ Can use mirror/feel the line to assist locating the hook position.



Locate both hooks and unhook using coin/Jig.

Coin or Jig to unhook bottom Rear Cover-Bezel hook
 *Wrap coin in tape(55mmX25mm)
 *Thickness of coin approximately 2mm.

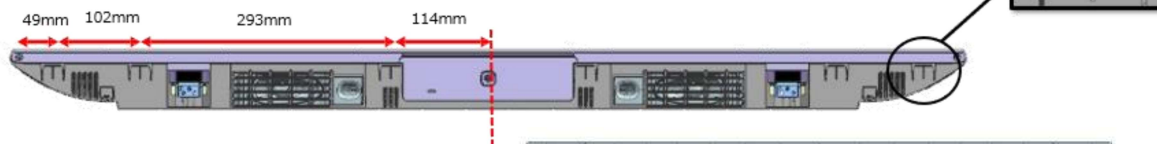


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

SECTION 2 KD-50X85J / FW-50BZ35J

2-1. DISASSEMBLY AND REMOVAL CAUTION

Bottom Hook Position



3. Unhook corner hook

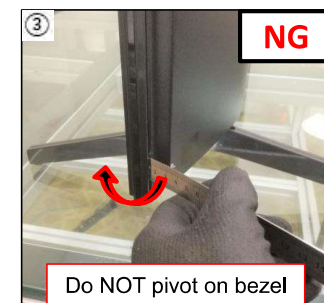
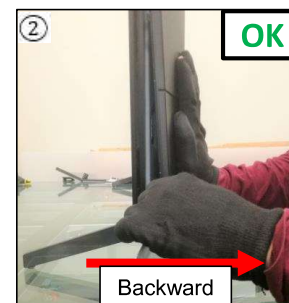
Legend

■ = Back Chassis - Rear Cover Hook

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



- ① When releasing hook, pull the Rear Cover corner and insert jig.
- ② Ensure that the jig is pulled backward.
- ③ Do NOT pivot on bezel when inserting jig.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------



SECTION 2 KD-50X85J / FW-50BZ35J

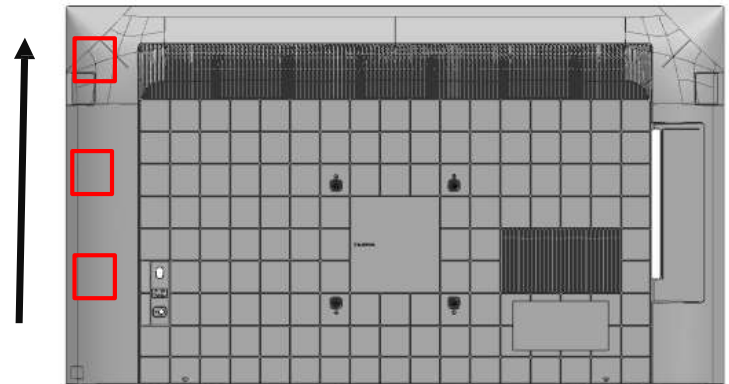
2-1. DISASSEMBLY AND REMOVAL CAUTION

4. Unhook left side hooks

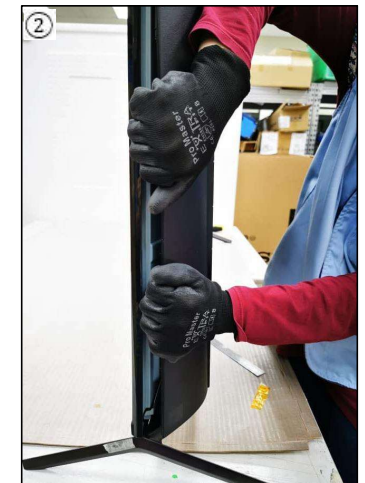
Total Rear Cover Back Chassis :
50" = 3 hooks

Legend

-  =Back Chassis-Rear Cover Hook
-  =Rear Cover-Bezel Hook



- ① Grip Rear Cover with hand and unhook Rear Cover – Back Chassis hook using ruler/jig.
- ② Flex the Rear Cover outwards to unhook. Support set with arm.



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE

SECTION 2 KD-50X85J / FW-50BZ35J

2-1. DISASSEMBLY AND REMOVAL CAUTION

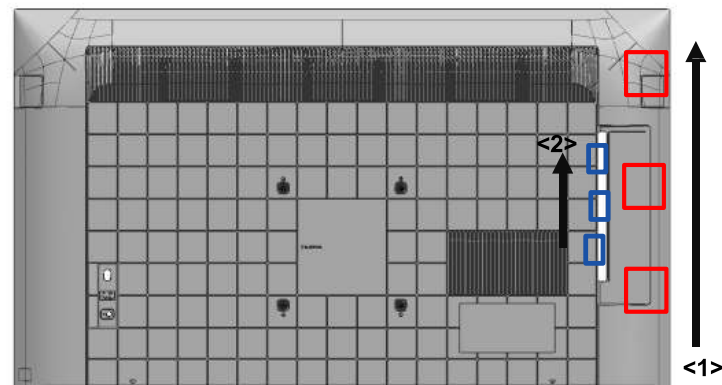
5. Unhook right side hooks

Total Side Bracket hooks : 3 hooks.
 Total Rear Cover – Back Chassis Hooks :
 50" = 3 hooks

Legend

- =Back Chassis-Rear Cover Hook
- =Rear Cover-Bezel Hook
- =SJB Hook

- ① Unhook side hooks <1>.
- ② Pull Rear Cover below the Side Jack to release the hook <2>.
- ③ Proceed to unhook remaining side hooks <3>.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

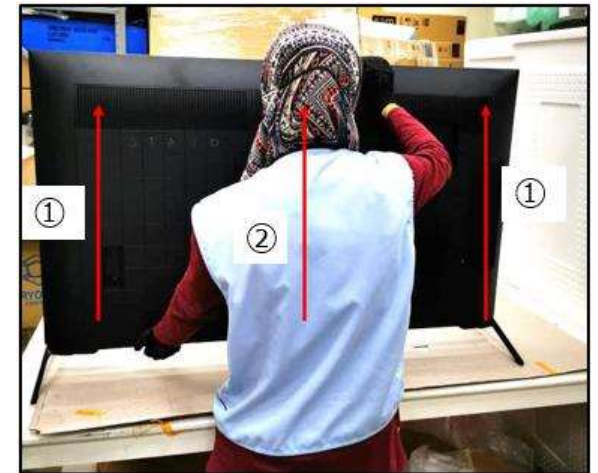
SECTION 2 KD-50X85J / FW-50BZ35J

2-1. DISASSEMBLY AND REMOVAL CAUTION

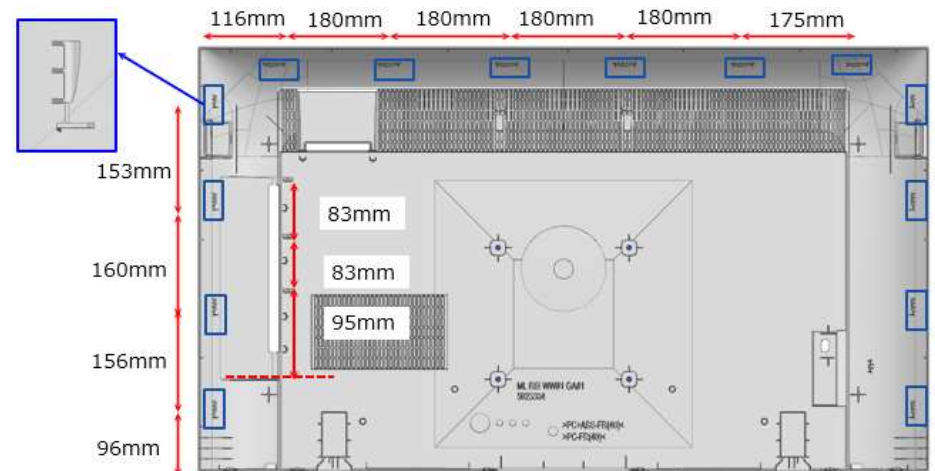
6. Unhook top row hooks

Total Hooks (Top Row):
50" = 6 hooks

- ① Tilt the rear cover and push upwards on the left/right side.
- ② Pull Rear Cover below the side jack to release the hook



Hook Positioning



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

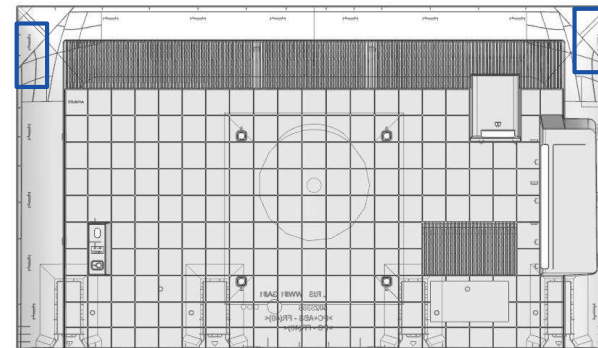
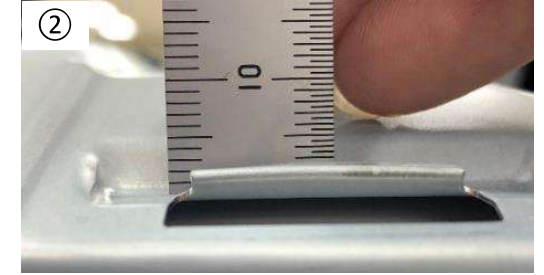
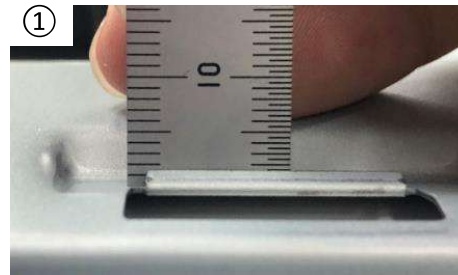
SECTION 2 KD-50X85J / FW-50BZ35J

2-1. DISASSEMBLY AND REMOVAL CAUTION

Caution Point :

- ① Back Chassis in good condition if Top side hook unhook then proceed Top hooks

- ② Back Chassis in good condition if Top side hook unhook then proceed Top hooks



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

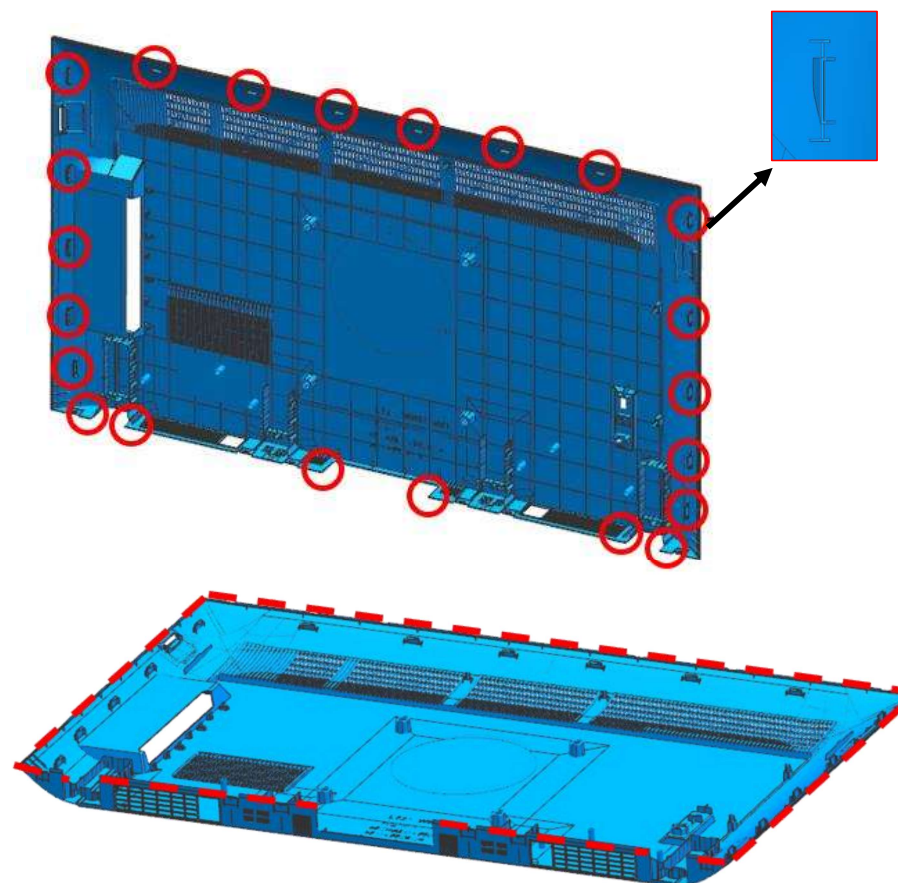
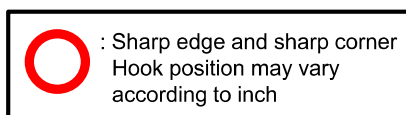
SECTION 2 KD-50X85J / FW-50BZ35J

2-1. DISASSEMBLY AND REMOVAL CAUTION

Sharp Edge Information

Caution Point :

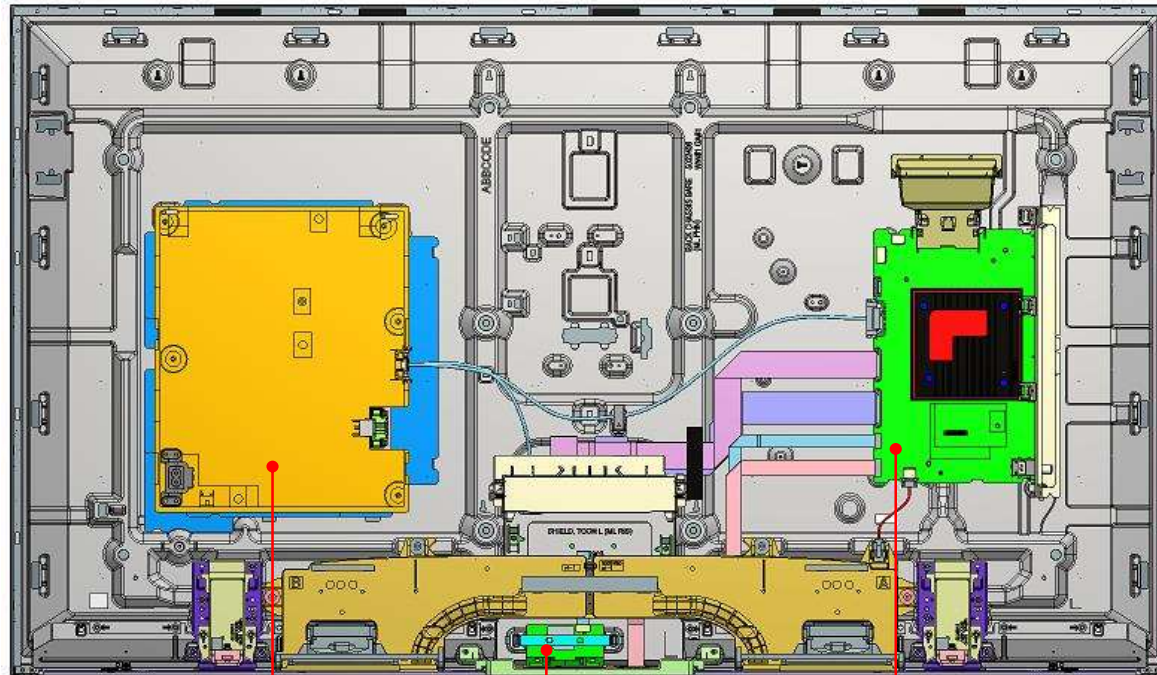
Please wear gloves when removing rear cover to avoid sharp edge at bottom side and hook area as shown in figure.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

SECTION 2 KD-50X85J / FW-50BZ35J

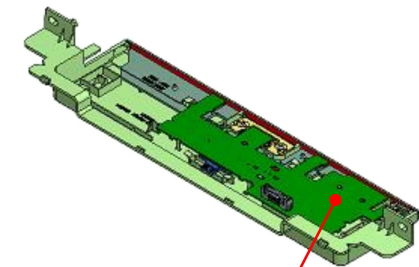
2-2. BOARD LOCATION



POWER
BOARD

WLAN
BOARD

MAIN
BOARD



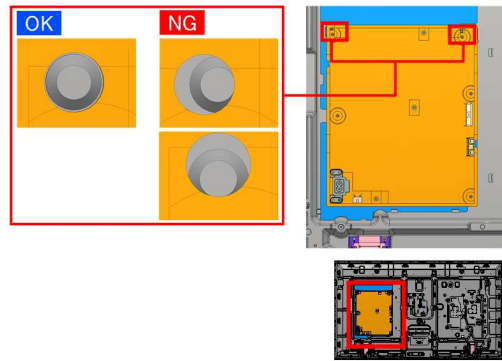
RECEIVER BOARD

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

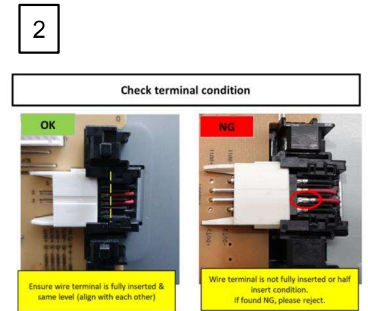
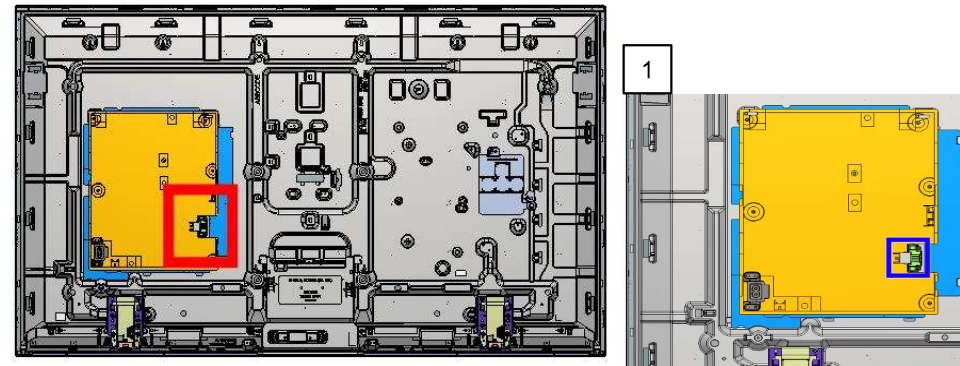
SECTION 2 KD-50X85J / FW-50BZ35J

2-3. WIRE DRESSING

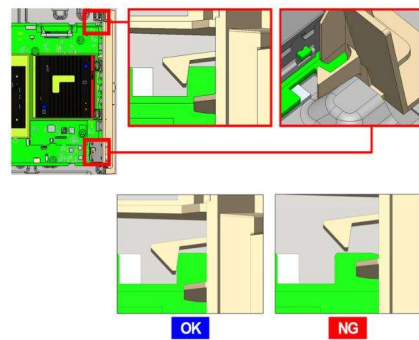
Information



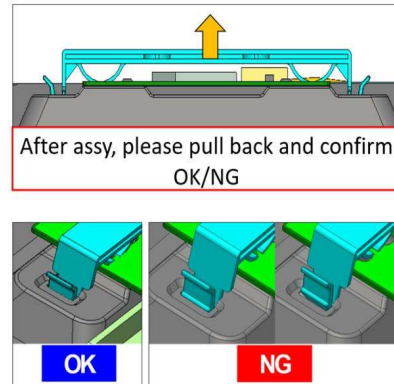
Connect



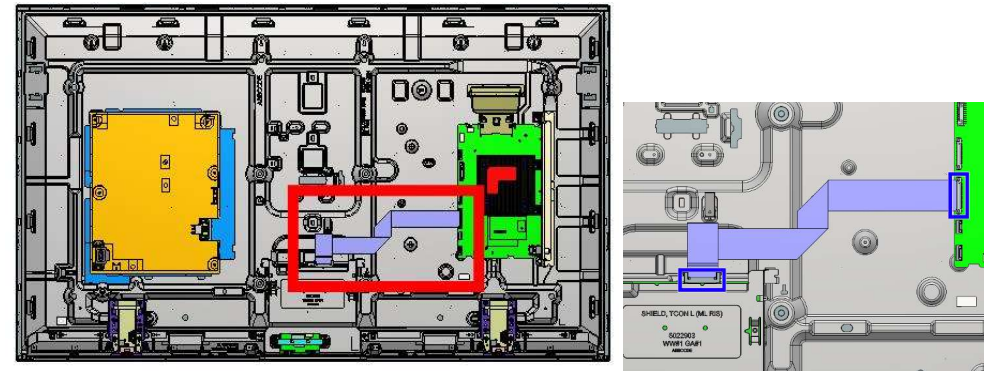
Information



Information



Connect



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

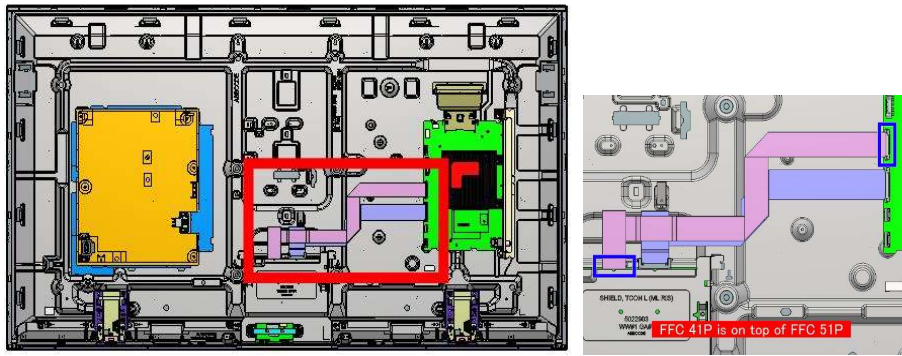
SECTION 6

SMART CORE

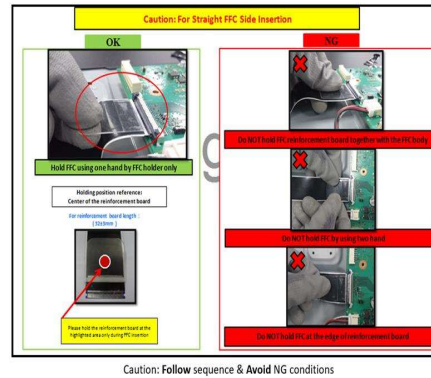
SECTION 2 KD-50X85J / FW-50BZ35J

2-3. WIRE DRESSING

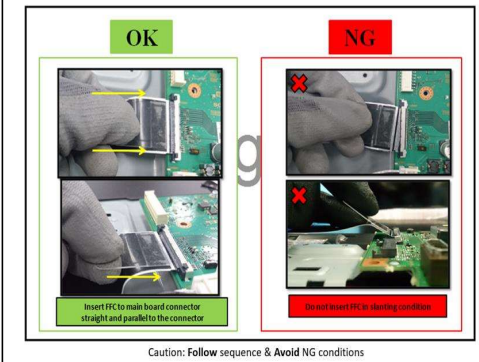
Connect



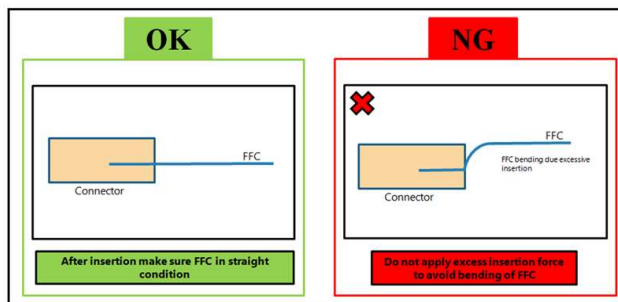
Information



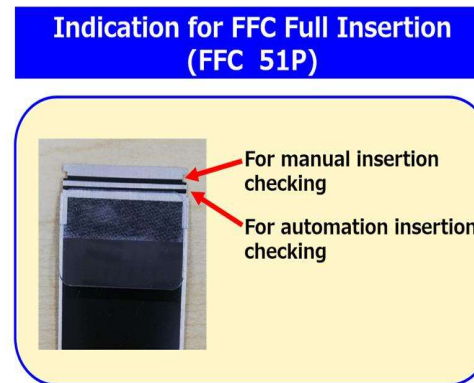
Information



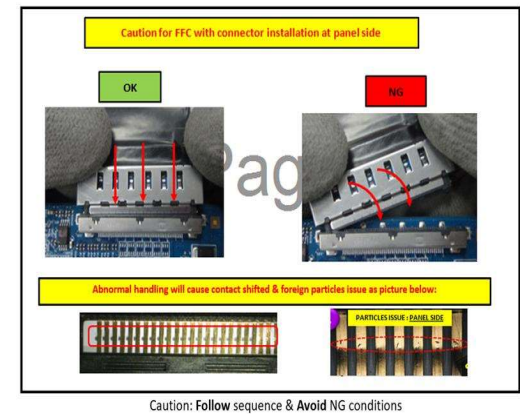
Information



Information



Information

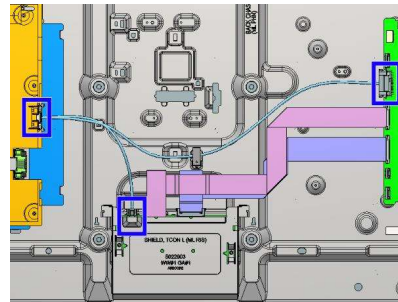
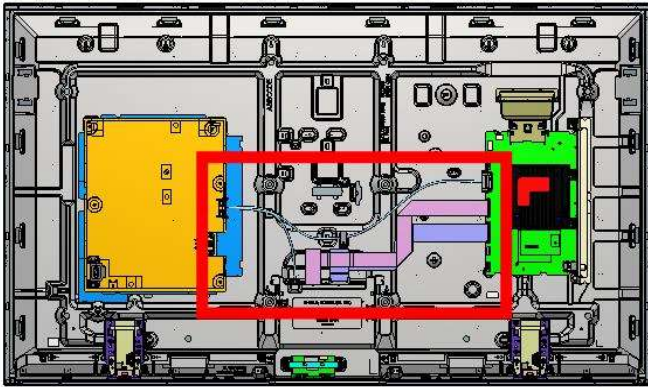


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

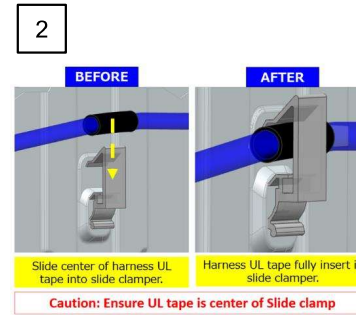
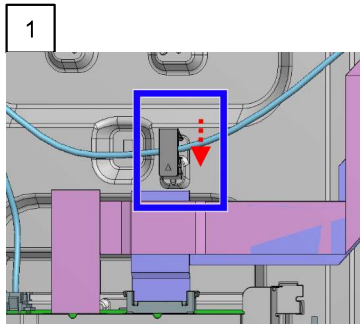
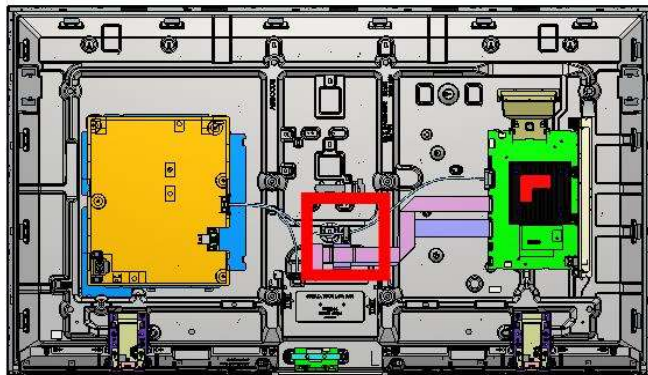
SECTION 2 KD-50X85J / FW-50BZ35J

2-3. WIRE DRESSING

Connect

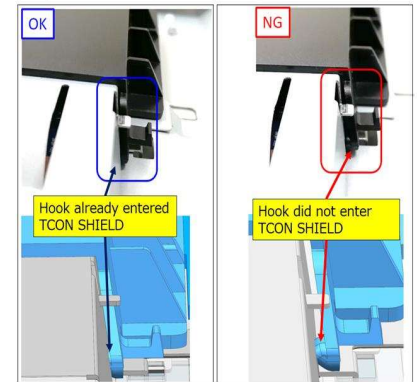


Wire Dressing



Information

Final locking condition for both side



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

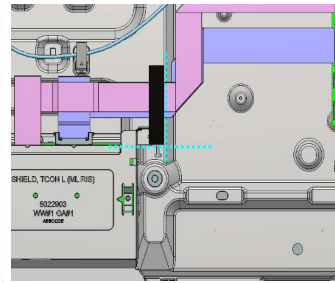
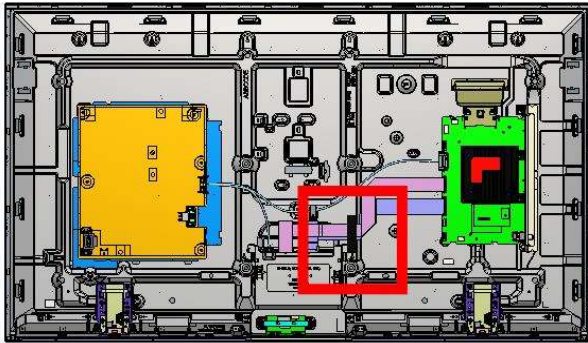
SECTION 6

SMART CORE

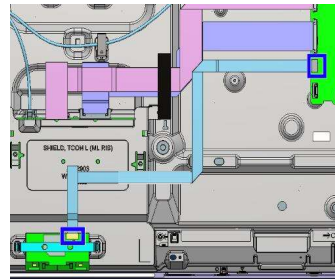
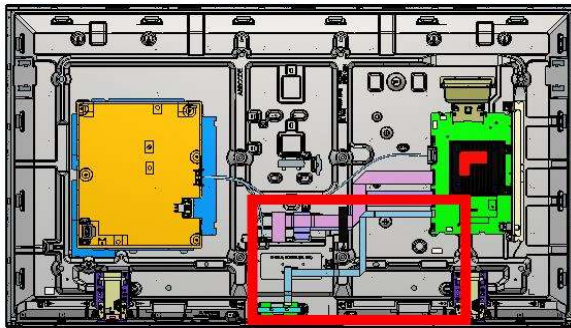
SECTION 2 KD-50X85J / FW-50BZ35J

2-3. WIRE DRESSING

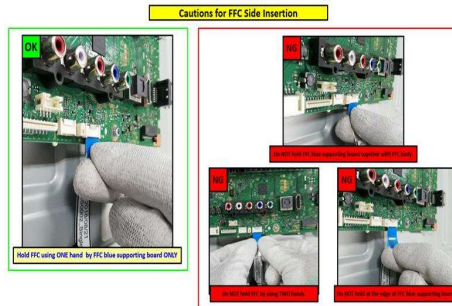
Tape



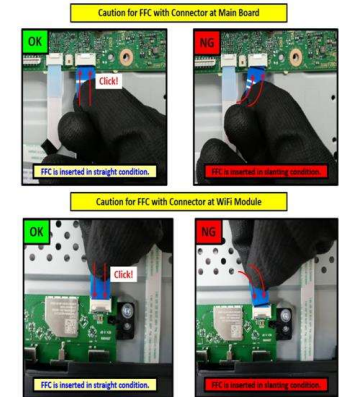
Connect



Information



Information



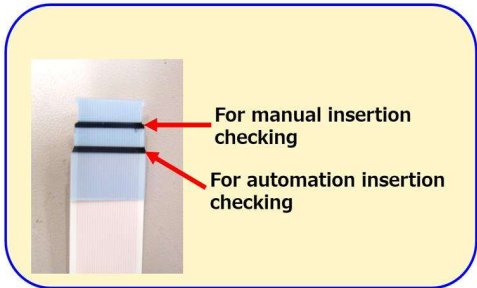
TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

SECTION 2 KD-50X85J / FW-50BZ35J

2-3. WIRE DRESSING

Information

**Indication for FFC Full Insertion
WIFI FFC (FFC 20P) & H-board FFC (FFC 25P)**



For manual insertion checking


For automation insertion checking

Information

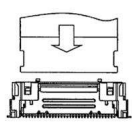
Cautions for FFC with Connector at Smart Core

FRONT VIEW


OK



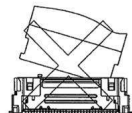
FFC is inserted in straight condition.



NG



FFC is inserted in slanting condition.



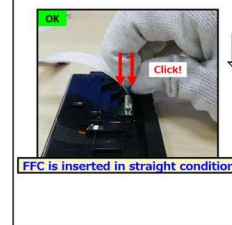
** Do not push hard on FFC connector on H Board to avoid connector peel off*

Information

Cautions for FFC with Connector at Smart Core

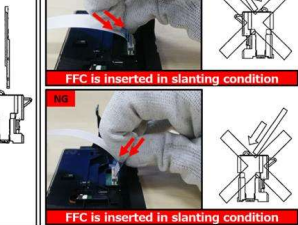
SIDE VIEW

OK



FFC is inserted in straight condition

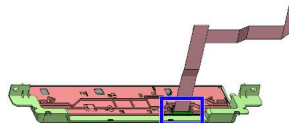
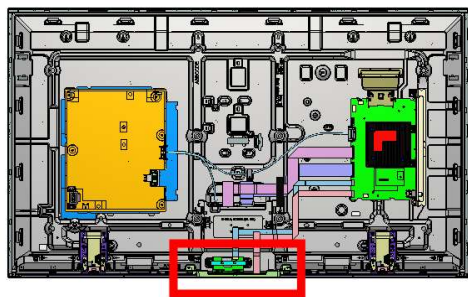
NG



FFC is inserted in slanting condition

** Do not push hard on FFC connector on H Board to avoid connector peel off*

Connect




Caution :
Do not bend header on H Board while insert FFC

Information

Caution:

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

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

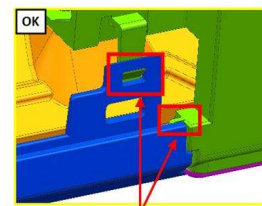


Smart Core is placed on **FLAT** surface during FFC insertion.

After assemble H-Board to Smart Core, operator need to insert H-Board FFC in straight condition.

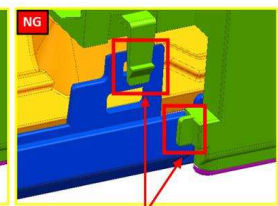
Information

OK



Hook and guide are inserted properly

NG



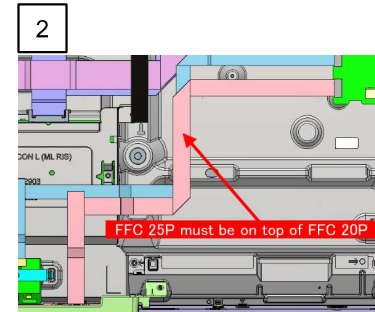
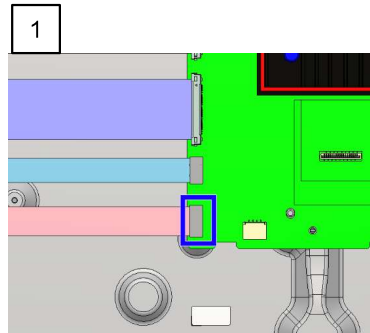
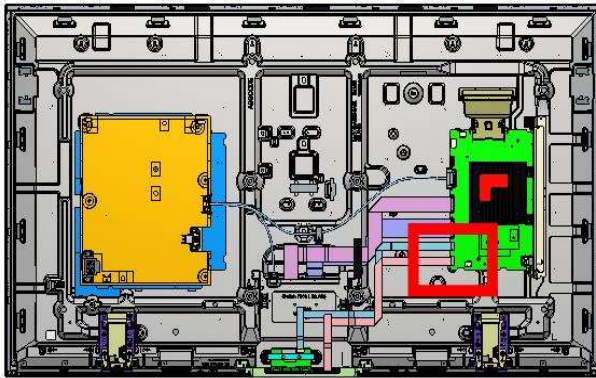
Hook and guide are NOT insert properly

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	-----------	------------

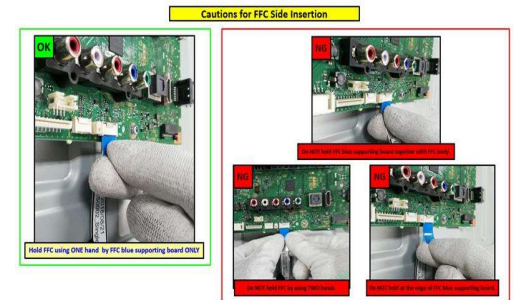
SECTION 2 KD-50X85J / FW-50BZ35J

2-3. WIRE DRESSING

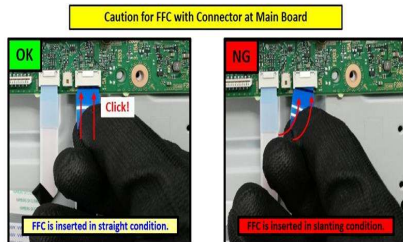
Connect



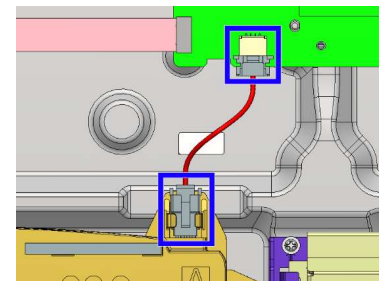
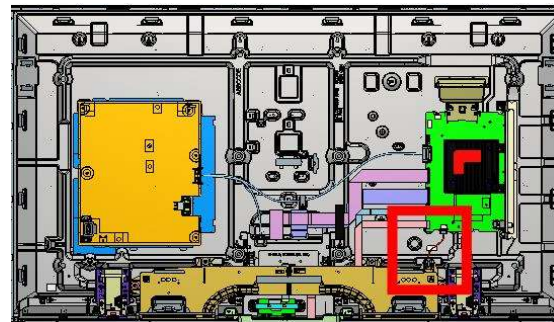
Information



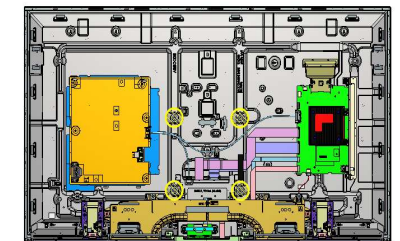
Information



Connect



Information



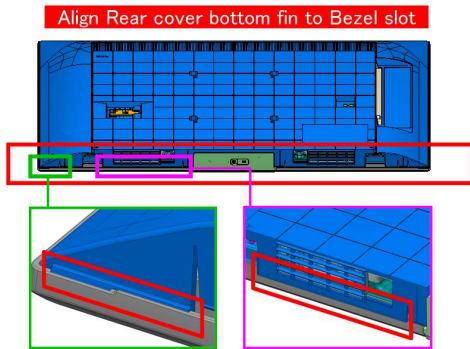
Caution: Ensure harness is away from inhibit area

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

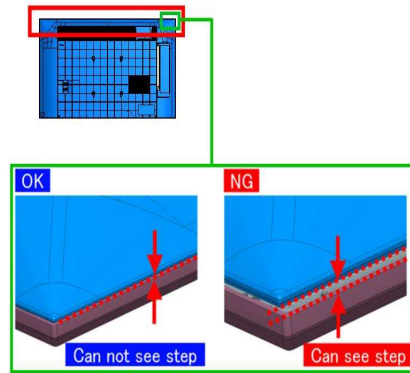
SECTION 2 KD-50X85J / FW-50BZ35J

2-3. WIRE DRESSING

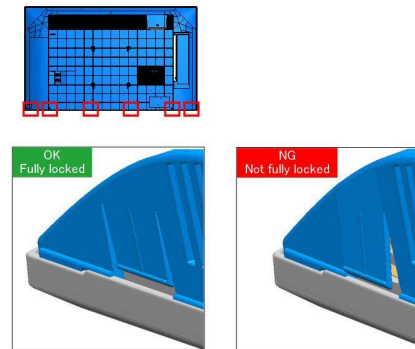
Information



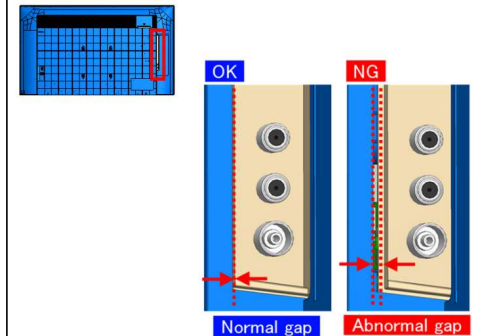
Information



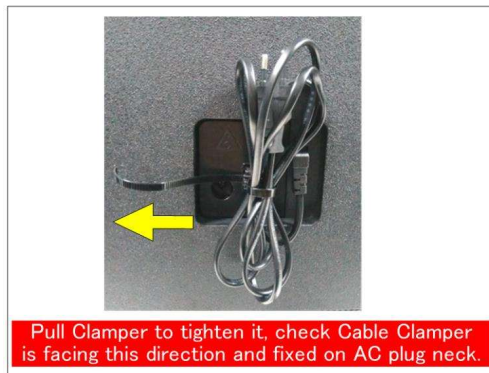
Information



Information



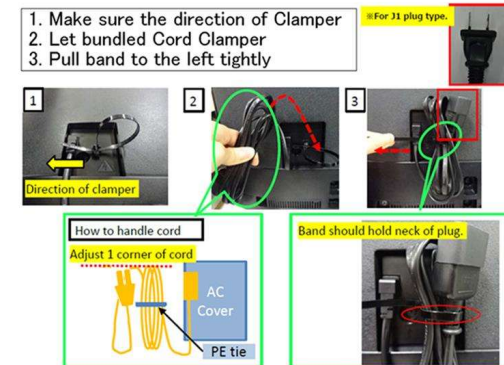
Wire Dressing



Wire Dressing



Wire Dressing



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3



SECTION 4

SECTION 5

SECTION 6

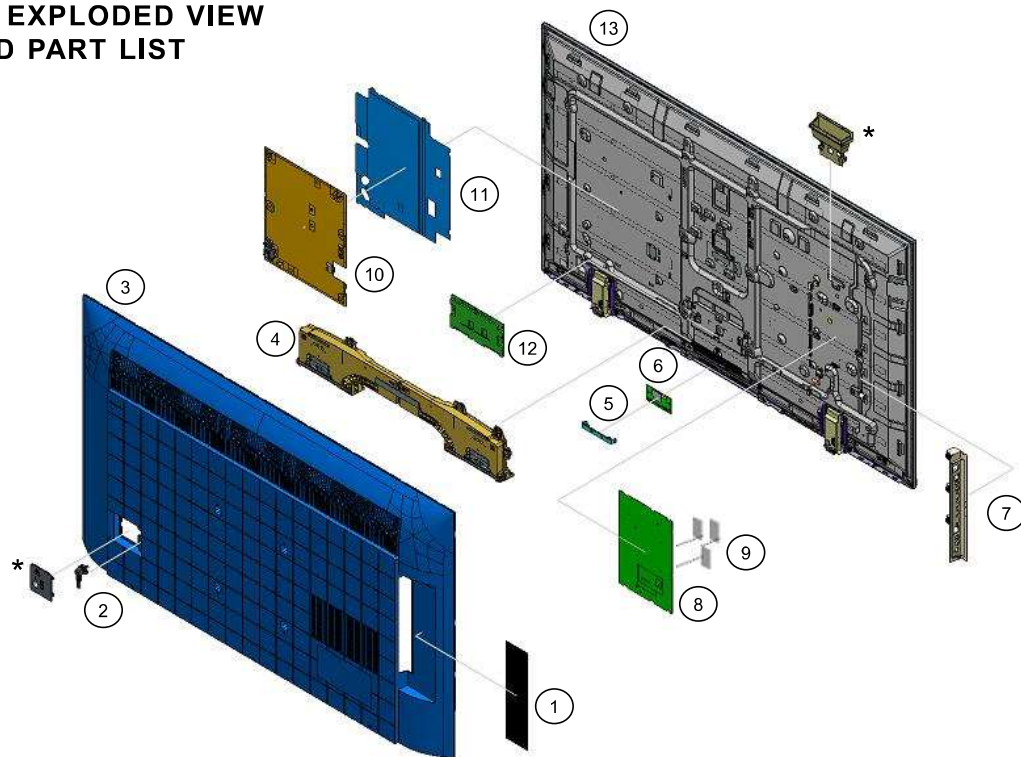
SMART CORE

SECTION 2 KD-50X85J / FW-50BZ35J

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

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

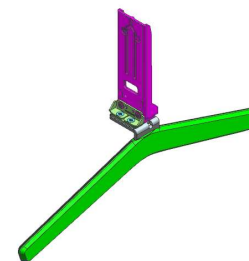
2-4 EXPLODED VIEW AND PART LIST



* Only on limited region / country / TV model

Stand

(14) (15)



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5


SECTION 6

SMART CORE

SECTION 2

KD-50X85J / FW-50BZ35J



SET PART LIST

REF. NO	PART NO.	DESCRIPTION	KD-50X85J	FW-50BZ35J
			UCM	UCF
1	5-024-894-01	LABEL, SIDE TERMINAL (RIS)	•	n/a
1	5-024-946-11	LABEL, SIDE TERMINAL (RIS)	n/a	•
 2	1-005-642-11	C7L AC POWER CORD SETS (US)	•	•
 2	1-005-634-11	C7L AC POWER CORD SETS (EU)	n/a	•
3	5-027-812-22	REAR COVER ASSY (ML LYX)	•	•
4	1-009-790-11	SP-BOX ASSY,FY21 W30 ONE BOX	•	•
 5	5-009-258-11	BRACKET, WIFI(BNN)	•	•
 5	5-009-258-21	BRACKET, WIFI(BNN) – Optional	•	•
6	1-005-419-32	WLAN/BT MODULE(11AC)FXC	•	•
7	5-021-551-31	BRACKET SIDE (BNN) A	•	n/a
7	5-021-551-61	BRACKET SIDE (BNN) A	n/a	•
 8	A-5027-359-A	COMPL_SVC_BM5A_AX_UCM	•	n/a
 8	A-5027-370-A	COMPL_SVC_BM5A_AXB_WW	n/a	•
9	4-457-451-12	SHEET, THERMAL (BAF)	•	•
 10	1-009-800-21	GL12P-STATIC CONVERTER (TV)	•	n/a
 10	1-009-800-11	GL12-STATIC CONVERTER (TV)	n/a	•
11	5-023-072-01	SHEET, INSULATION (ML PHN) A	•	•
11	5-023-072-11	SHEET, INSULATION (ML PHN) A- Optional	•	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

SECTION 2 KD-50X85J / FW-50BZ35J

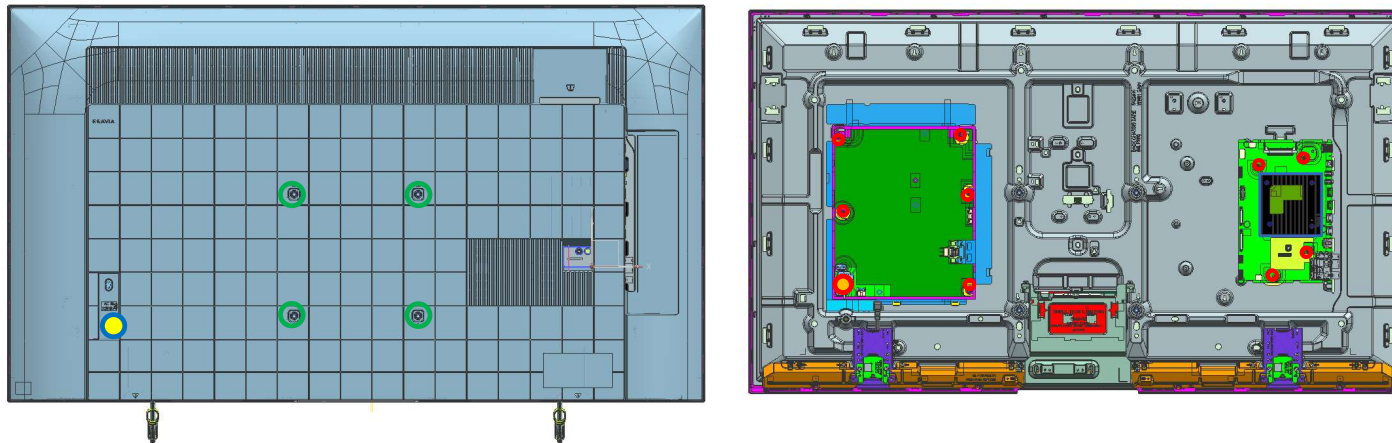
SET PART LIST

REF. NO	PART NO.	DESCRIPTION	KD-50X85J	FW-50BZ35J
			UCM	UCF
12	1-011-266-21	MOUNTED PWB E-T-CON (50)	•	•
 13	A-5029-024-A	P-MOD(YDBM050CCU01)SVC	•	n/a
 13	A-5029-363-A	P-MOD (YDBM050CCU01)(SVC)	n/a	•
14	5-022-892-21	STAND, L (ML LYX) A	•	•
15	5-022-893-21	STAND, R (ML LYX) A	•	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

SECTION 2 KD-50X85J / FW-50BZ35J

SCREW

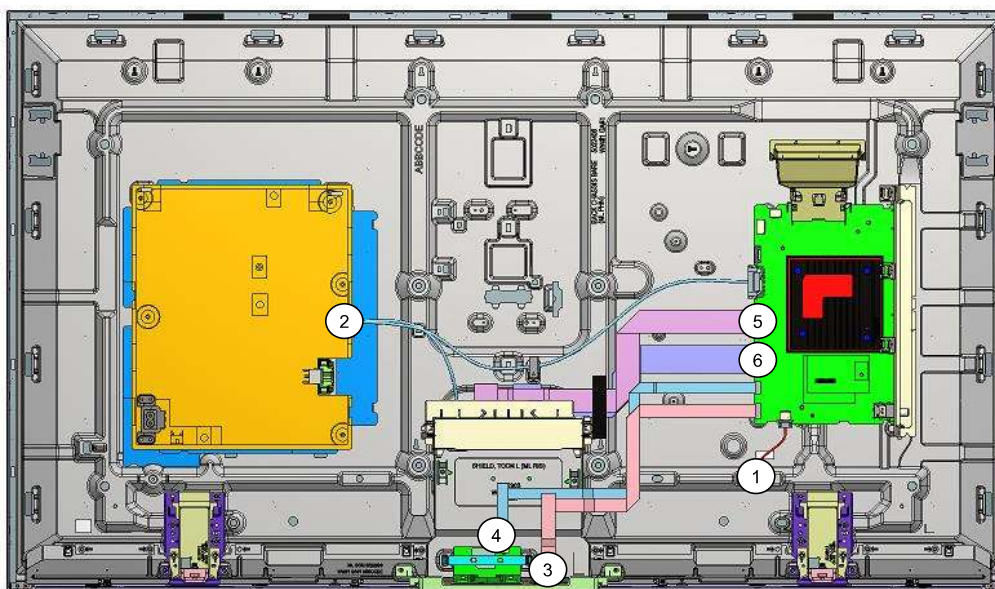


REMARKS	P/N	DESCRIPTION	QTY	TORQUE
○	4-472-518-11	SCREW, +PSW M3X6	9	0.4 ± 0.05 N.m
●	2-580-592-01	SCREW, +PSW M3X8	1	0.4 ± 0.05 N.m
○	4-694-261-01	SCREW, +PSW M5X14	4	1.5 ± 0.1 N.m
●	4-579-926-01	M3x3.0 STEP	1	0.4 ± 0.05 N.m

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

SECTION 2 KD-50X85J / FW-50BZ35J

CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-010-989-12	CONNECTOR ASSY 4P (SP)	CN3550(BM5A)/CN6603(BM5ST)-SP(1)
2	1-011-591-11	CONNECTOR ASSY 30P	CN1701(BM5A)-CN6401(GL)-CON3(TCON)(1)
3	1-011-002-11	FLEXIBLE FLAT CABLE 20P	CN3801(BM5A)-J1(WIFI/BT)(1)
4	1-011-004-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5A)-CN102(HT2)(1)
5	1-011-592-11	FLEXIBLE FLAT CABLE 41P	CN4201(BM5A)-TCON(1)
6	1-011-965-11	FLEXIBLE FLAT CABLE 51P	CN4200(BM5A)-U1(TCON)(1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

SECTION 2 KD-50X85J / FW-50BZ35J

SET PART LIST

PART NO.	DESCRIPTION	KD-50X85J	FW-50BZ35J	REMARKS
		UCM	UCF	
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	•	
5-022-201-12	BAG, CL ASSY (SM LYX)	•	•	Including CLAMPER (4L BNN) (Qty 2) & CUSHION CL (LYX) , (Qty 2)
4-744-177-01	GASKET SB (3L BGO)	•	•	
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	•	n/a	
1-493-483-11	REMOTE COMMANDER (RMT-TB400U)	n/a	•	
*5-024-884-11	REFERENCE GUIDE	•	n/a	
*5-027-091-12	REFERENCE GUIDE	n/a	•	
*5-027-095-11	SETUP GUIDE	n/a	•	
*5-024-888-11	SETUP GUIDE	•	•	
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	•	
5-027-414-01	VESA SPACER S A (COM)	•	•	Screw Extension for Fall Lock and Wall Mount , (Qty 1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

SECTION 3 KD-55X85J

SET PART LIST

PART NO.	DESCRIPTION	KD-50X85J	FW-50BZ35J	REMARKS
		UCM	UCF	
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	•	
5-022-201-12	BAG, CL ASSY (SM LYX)	•	•	Including CLAMPER (4L BNN) (Qty 2) & CUSHION CL (LYX) , (Qty 2)
4-744-177-01	GASKET SB (3L BGO)	•	•	
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	•	n/a	
1-493-483-11	REMOTE COMMANDER (RMT-TB400U)	n/a	•	
*5-024-884-11	REFERENCE GUIDE	•	n/a	
*5-027-091-12	REFERENCE GUIDE	n/a	•	
*5-027-095-11	SETUP GUIDE	n/a	•	
*5-024-888-11	SETUP GUIDE	•	•	
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	•	
5-027-414-01	VESA SPACER S A (COM)	•	•	Screw Extension for Fall Lock and Wall Mount , (Qty 1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	------------------	-----------	-----------	-----------	-----------	------------

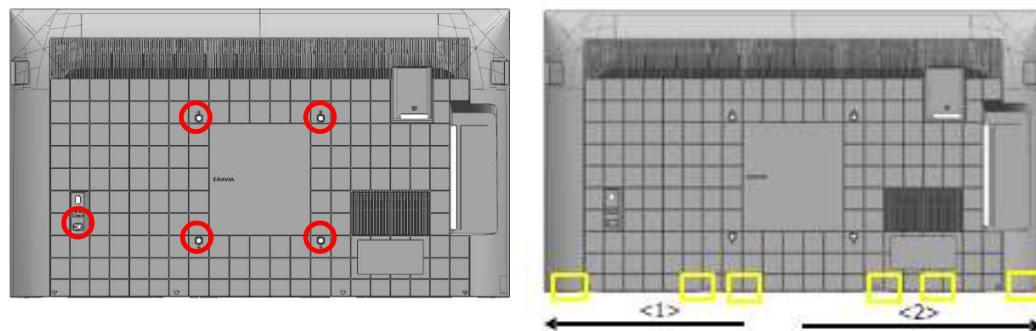
SECTION 3 KD-55X85J

3-1. DISASSEMBLY AND REMOVAL CAUTION

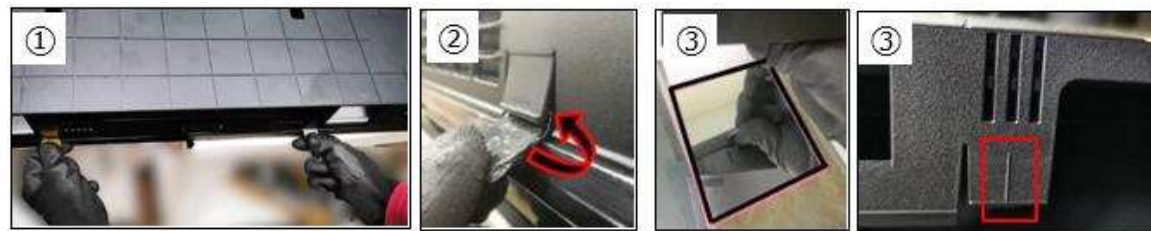
Rear Cover

1. Remove screw from rear cover.

2. Unhook bottom hook, starting from center.



- ① Unhook two hooks closet to center simultaneously to prevent lock back.
- ② Refer to next page for the location of hooks.
- ③ Can use mirror/feel the line to assist locating the hook position.

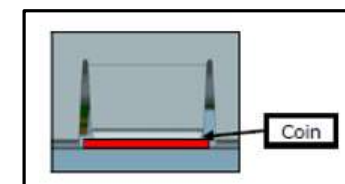


Locate both hooks and unhook using coin/Jig.

Coin or Jig to unhook bottom Rear Cover-Bezel hook

*Wrap coin in tape(55mmX25mm)

*Thickness of coin approximately 2mm.

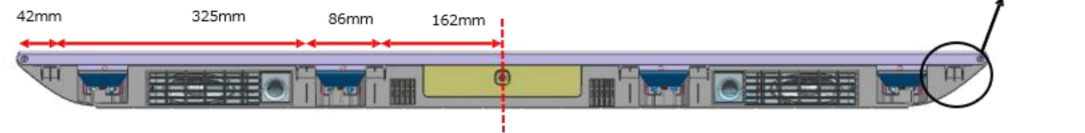


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

SECTION 3 KD-55X85J

3-1. DISASSEMBLY AND REMOVAL CAUTION

Bottom Hook Position



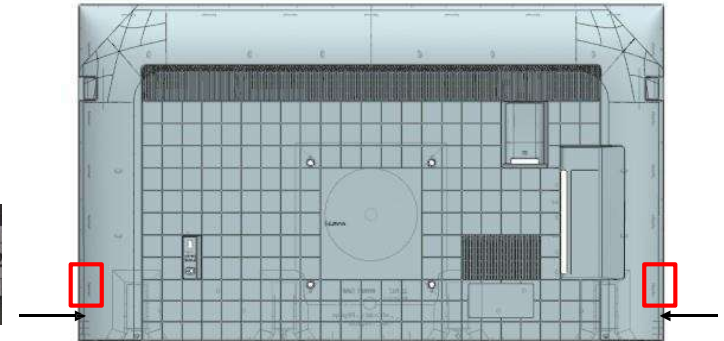
3. Unhook corner hook

Legend

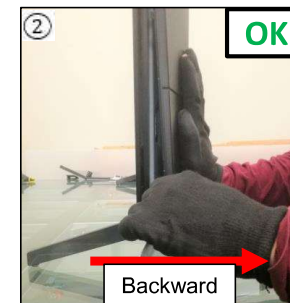
= Back Chassis - Rear Cover Hook

Ruler or jig to release corner hook

*Wrap ruler with tape to prevent scratch



- ① When releasing hook, pull the Rear Cover corner and insert jig.
- ② Ensure that the jig is pulled backward.
- ③ Do NOT pivot on bezel when inserting jig.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

SECTION 3 KD-55X85J

3-1. DISASSEMBLY AND REMOVAL CAUTION

4. Unhook left side hooks

Total Rear Cover Back Chassis :
55" = 4 hooks

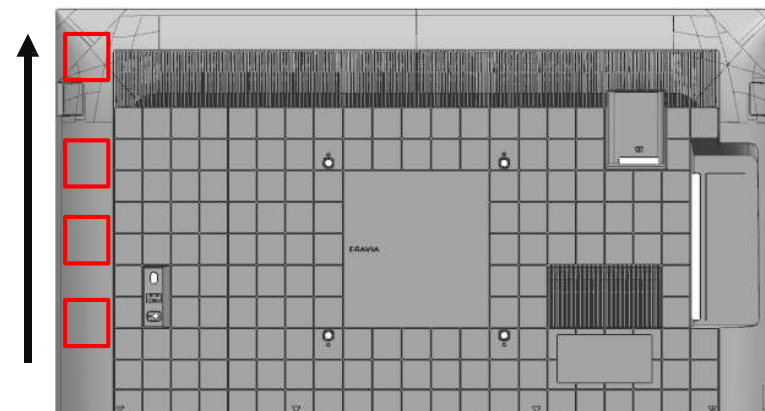
Legend

 =Back Chassis-Rear Cover Hook

 =Rear Cover-Bezel Hook

① Grip Rear Cover with hand and unhook Rear Cover – Back Chassis hook using ruler/jig.

② Flex the Rear Cover outwards to unhook. Support set with arm.



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE

SECTION 3 KD-55X85J

3-1. DISASSEMBLY AND REMOVAL CAUTION

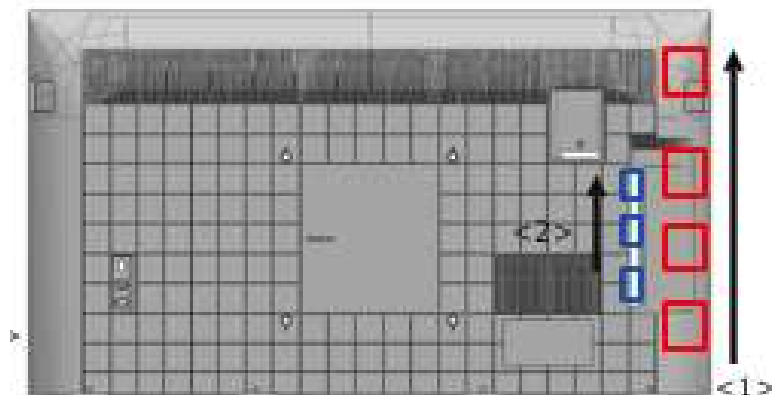
5. Unhook right side hooks

Total Side Bracket hooks : 4 hooks.
Total Rear Cover – Back Chassis Hooks :
55" = 4 hooks

Legend

- =Back Chassis-Rear Cover Hook
- =Rear Cover-Bezel Hook
- =SJB Hook

- ① Unhook side hooks <1>.
- ② Pull Rear Cover below the Side Jack to release the hook <2>.
- ③ Proceed to unhook remaining side hooks <3>.



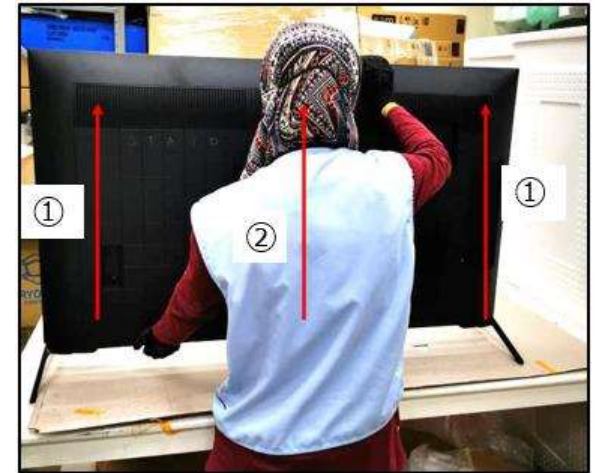
SECTION 3 KD-55X85J

3-1. DISASSEMBLY AND REMOVAL CAUTION

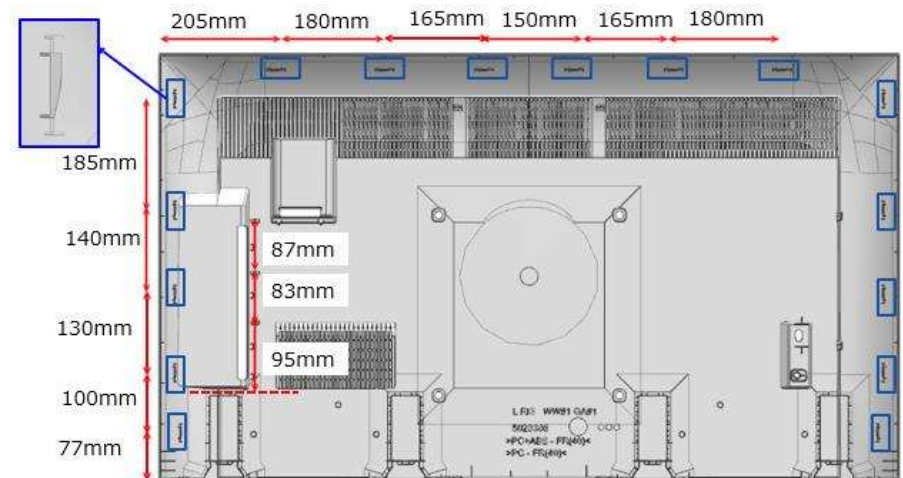
6. Unhook top row hooks

Total Hooks (Top Row):
55" = 6 hooks

- ① Tilt the rear cover and push upwards on the left/right side.
- ② Pull Rear Cover below the side jack to release the hook



Hook Positioning



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

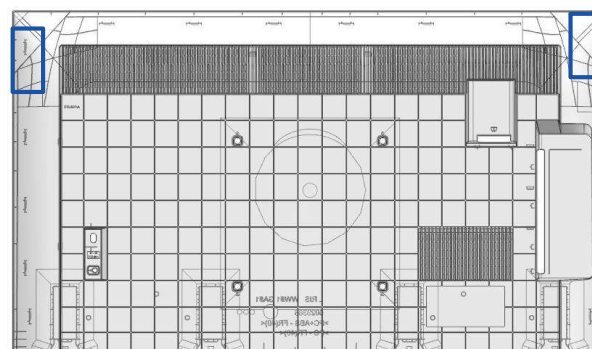
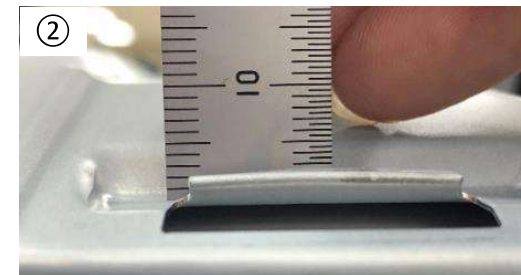
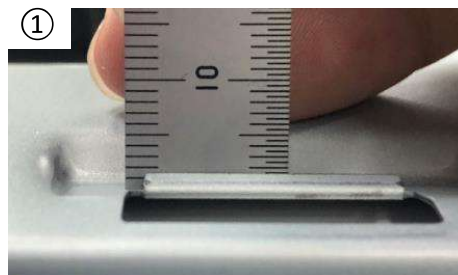
SECTION 3 KD-55X85J

3-1. DISASSEMBLY AND REMOVAL CAUTION

Caution Point :

- ① Back Chassis in good condition if Top side hook unhook then proceed Top hooks

- ② Back Chassis in good condition if Top side hook unhook then proceed Top hooks



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE

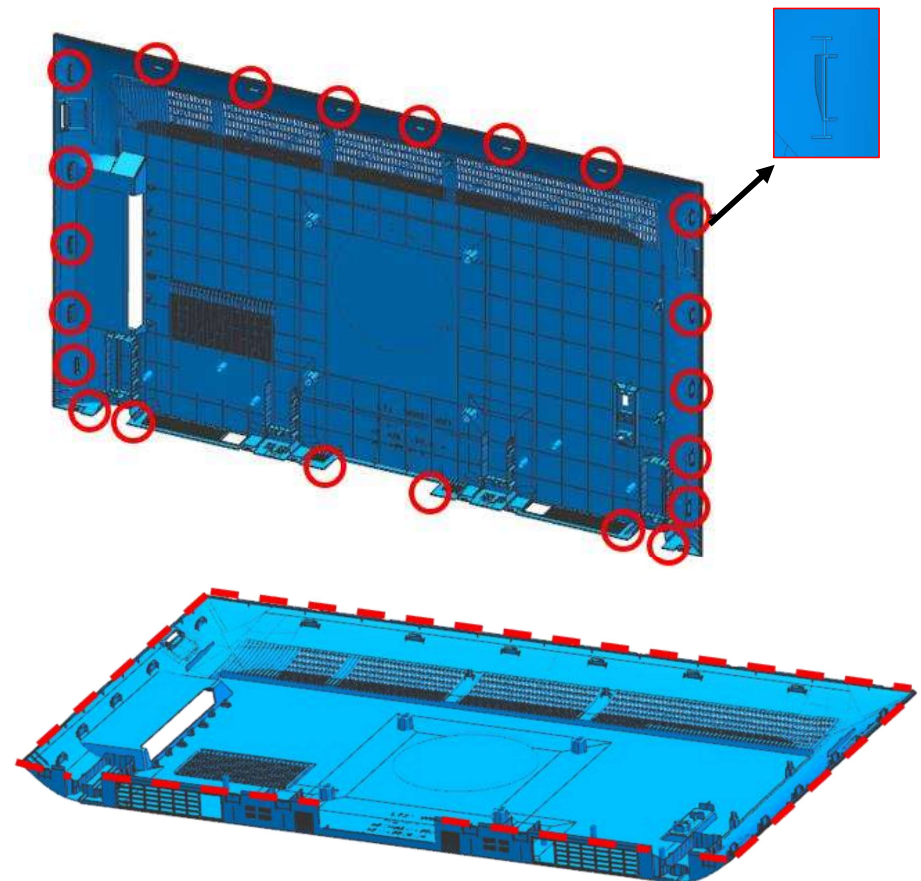
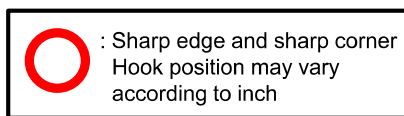
SECTION 3 KD-55X85J

3-1. DISASSEMBLY AND REMOVAL CAUTION

Sharp Edge Information

Caution Point :

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



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

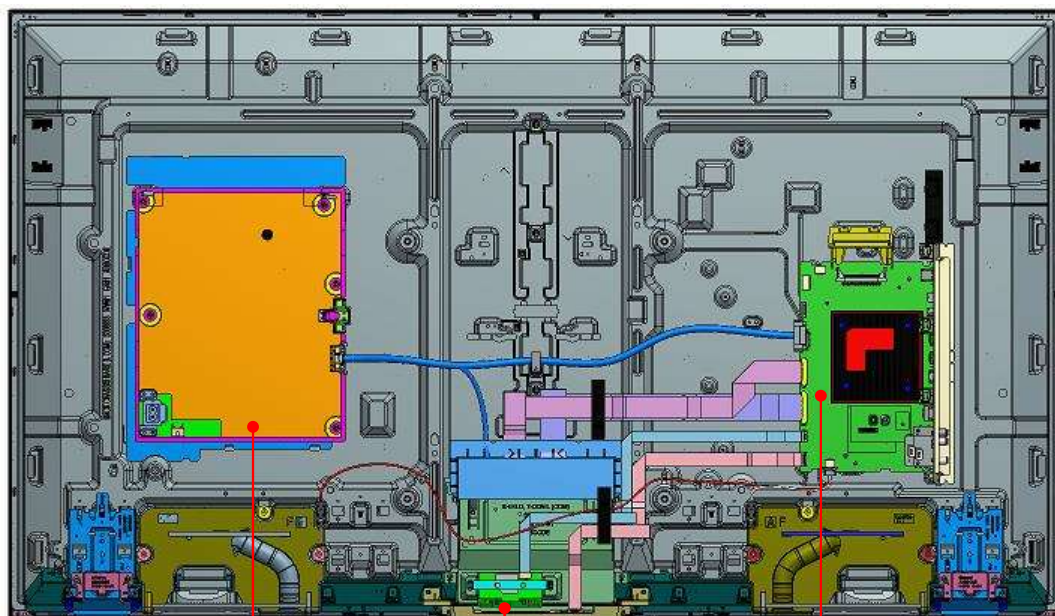
SECTION 5

SECTION 6

SMART CORE

SECTION 3 KD-55X85J

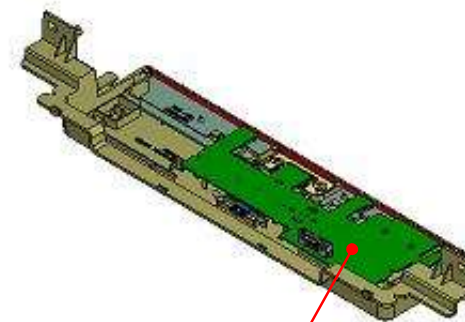
3-2. BOARD LOCATION



POWER BOARD

WLAN BOARD

MAIN BOARD



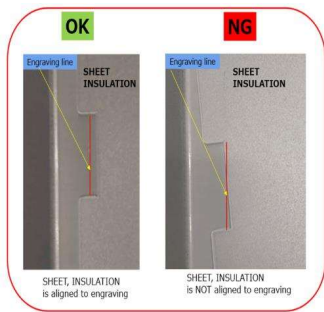
RECEIVER BOARD

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

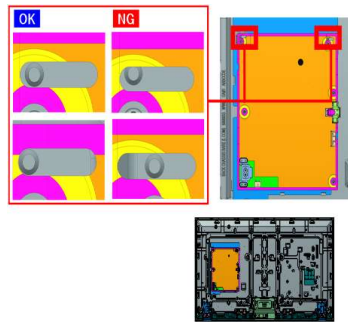
SECTION 3 KD-55X85J

3-3. WIRE DRESSING

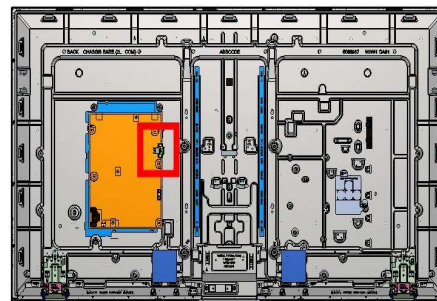
Information



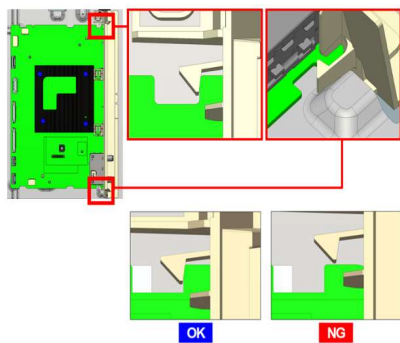
Information



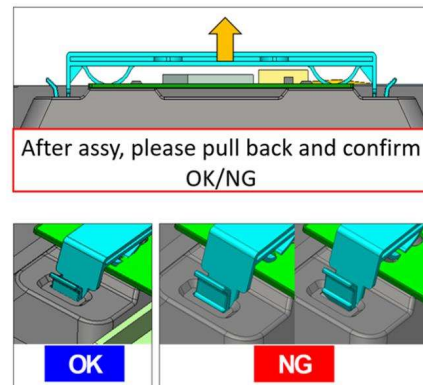
Connect



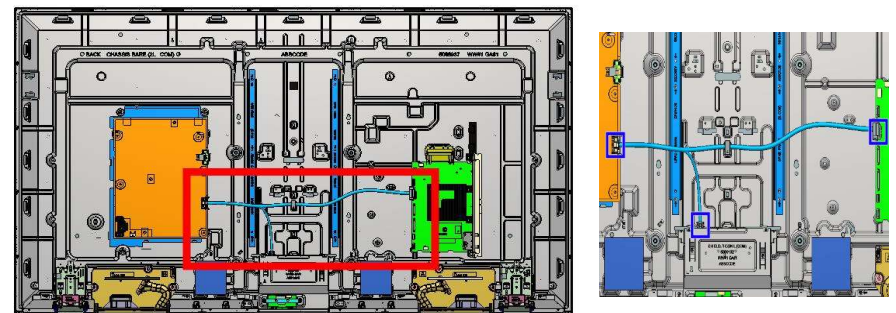
Information



Information



Connect

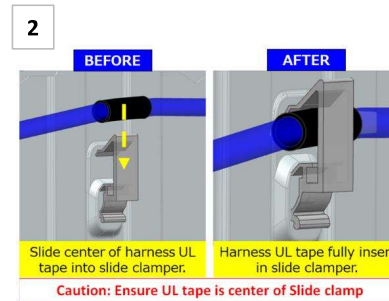
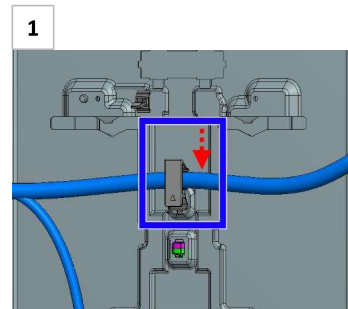
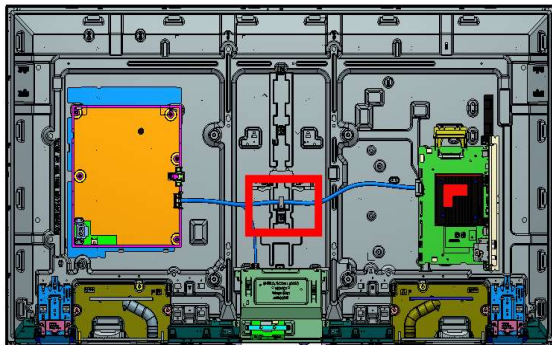


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

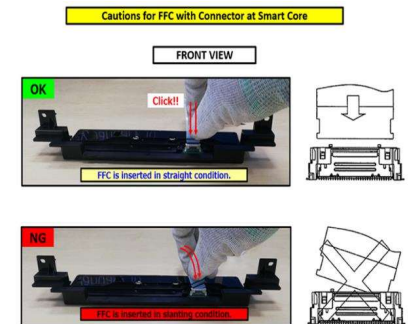
SECTION 3 KD-55X85J

3-3. WIRE DRESSING

Wire Dressing

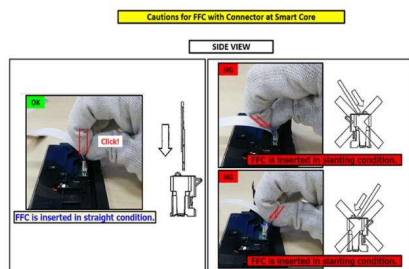


Information



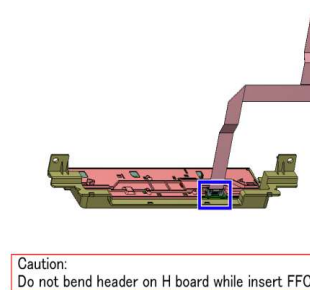
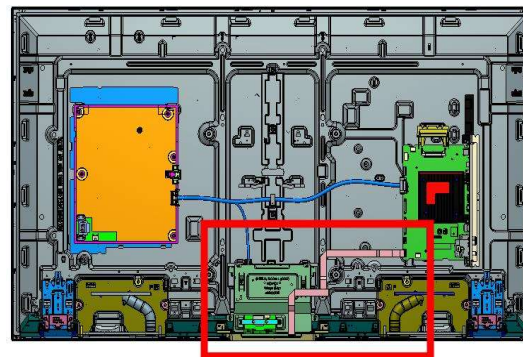
* Do not push hard on FFC connector on H Board to avoid connector peel off

Information

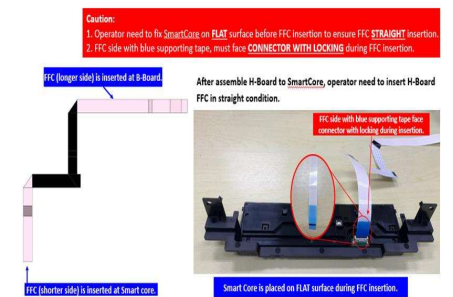


* Do not push hard on FFC connector on H Board to avoid connector peel off

Connect



Information

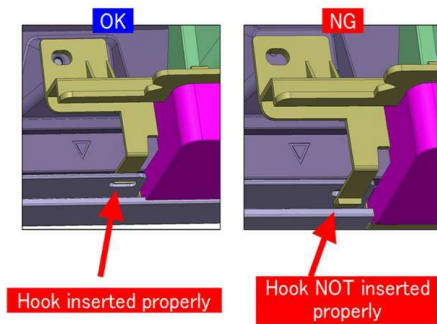


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

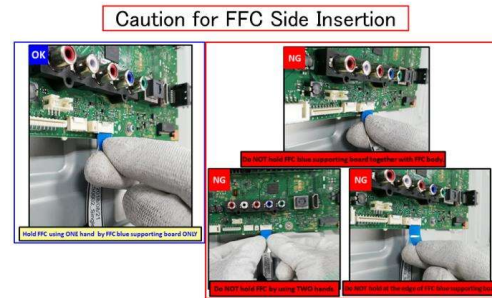
SECTION 3 KD-55X85J

3-3. WIRE DRESSING

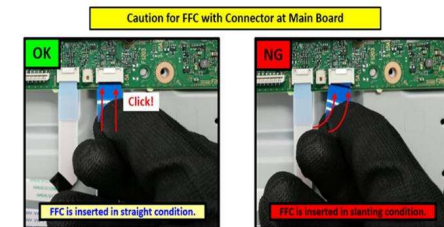
Information



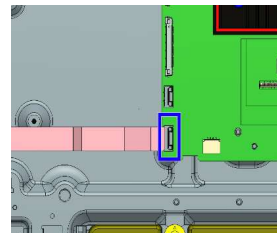
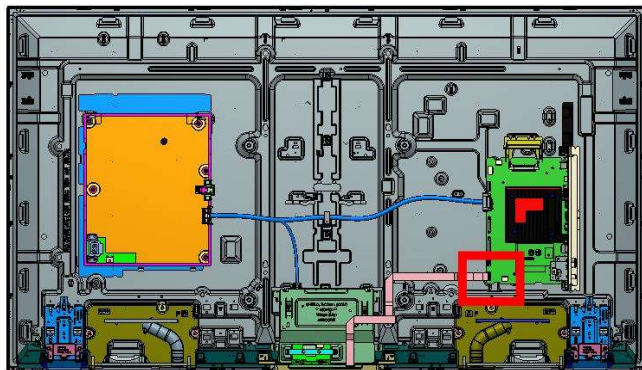
Information



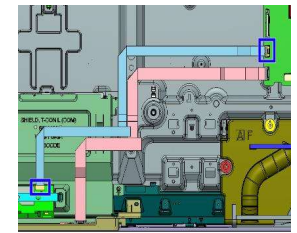
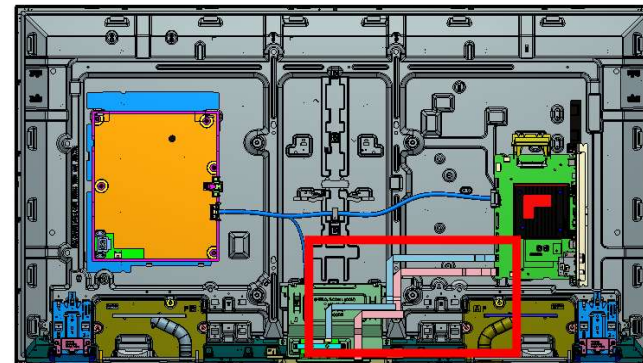
Information



Connect



Connect

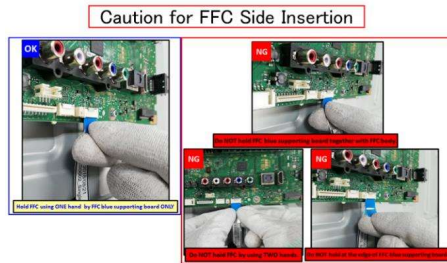


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

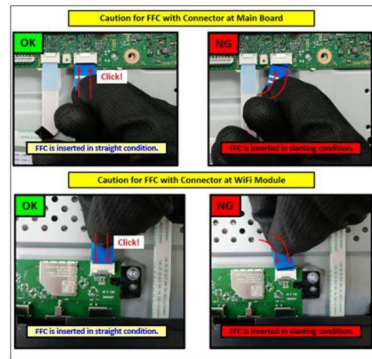
SECTION 3 KD-55X85J

3-3. WIRE DRESSING

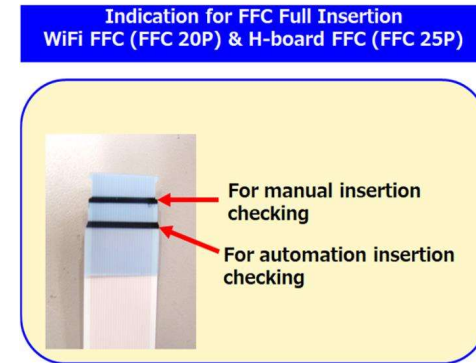
Information



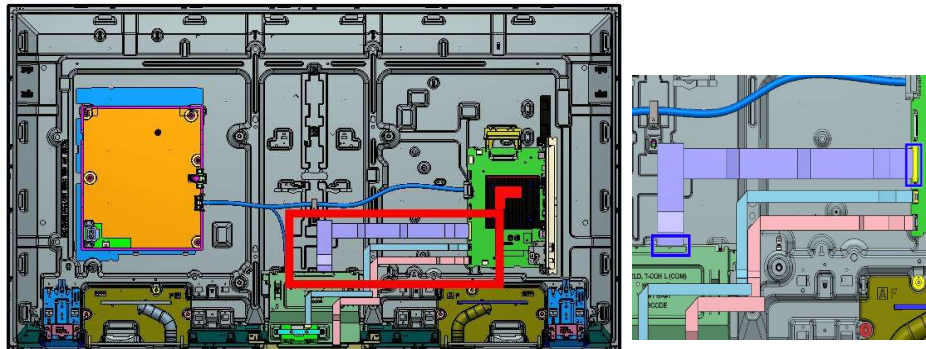
Information



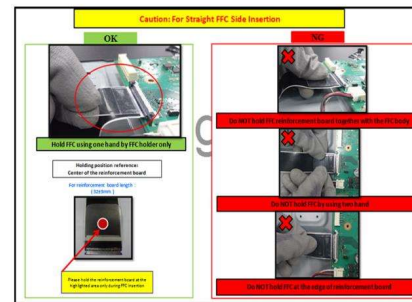
Information



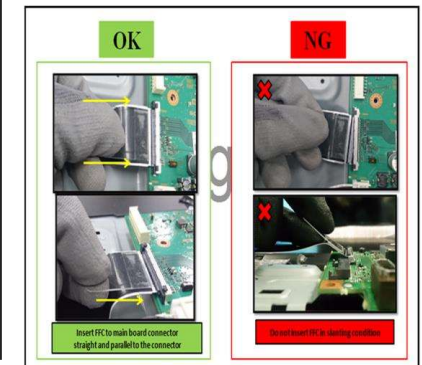
Connect



Information



Information

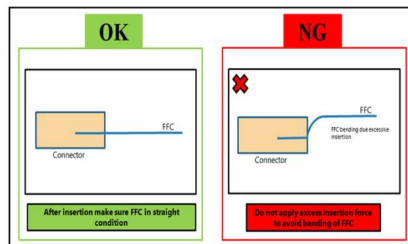


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

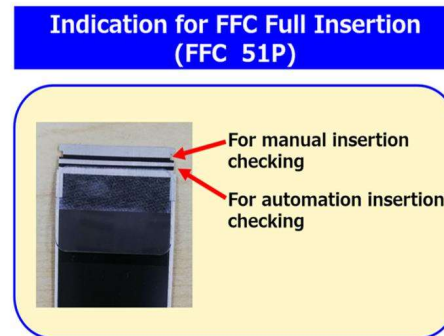
SECTION 3 KD-55X85J

3-3. WIRE DRESSING

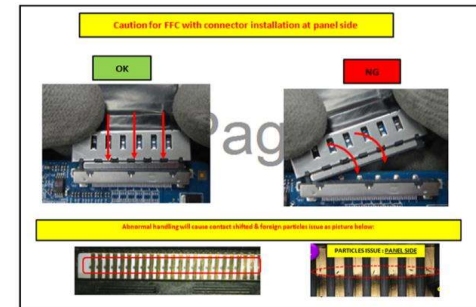
Information



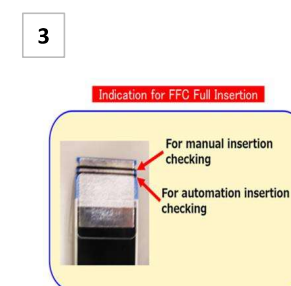
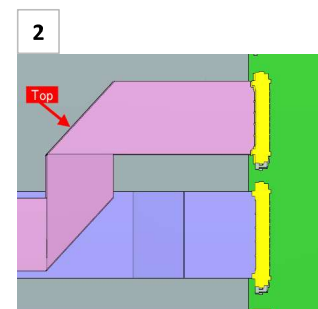
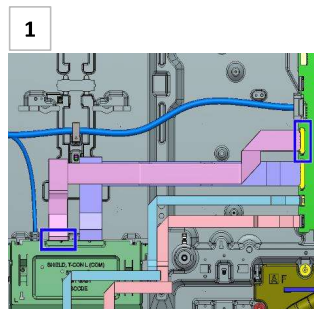
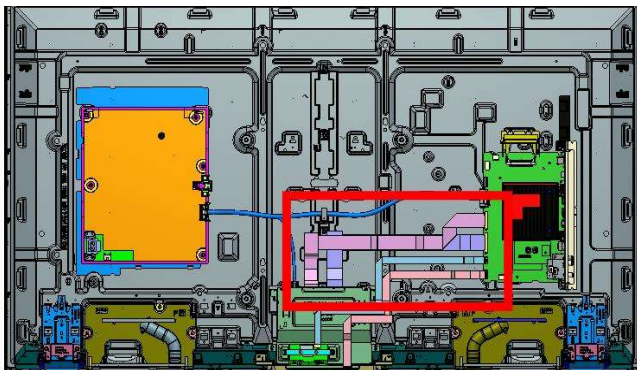
Information



Information



Connect

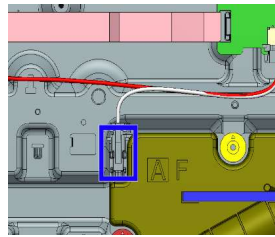
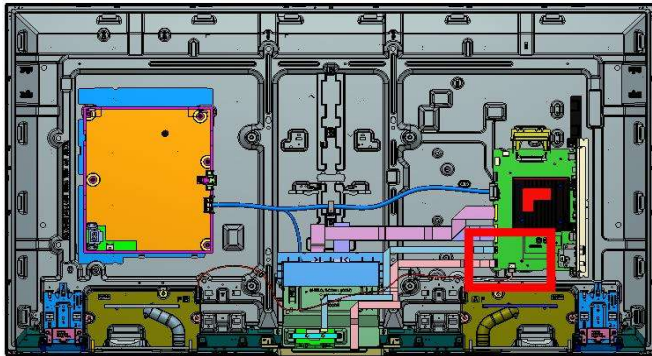


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

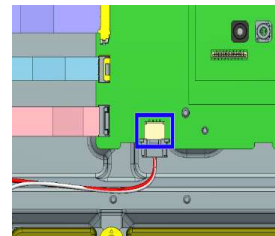
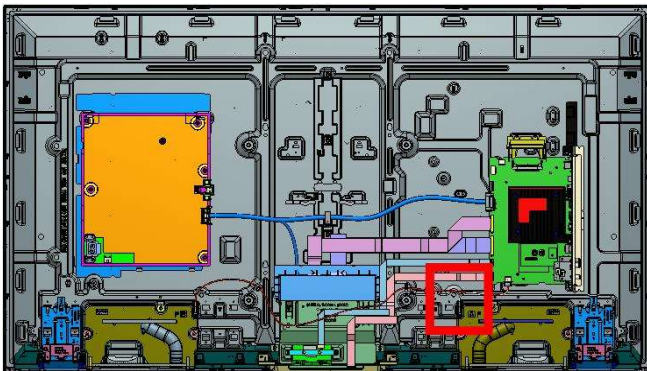
SECTION 3 KD-55X85J

3-3. WIRE DRESSING

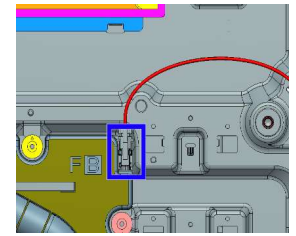
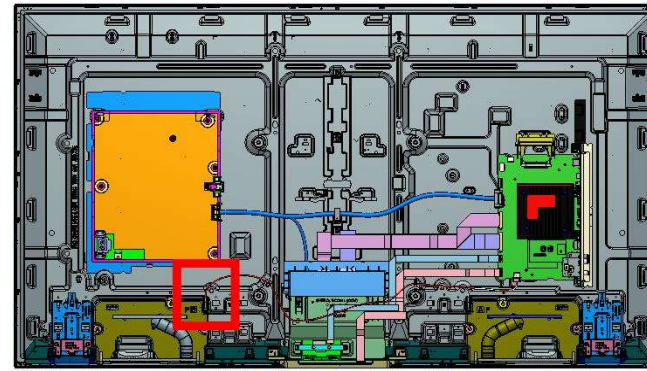
Connect



Connect



Connect

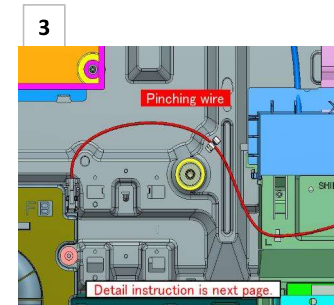
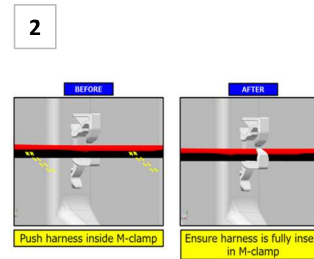
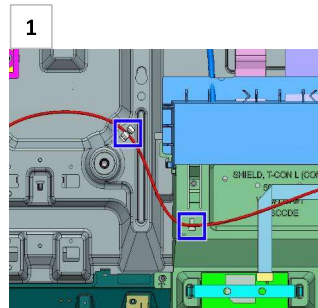
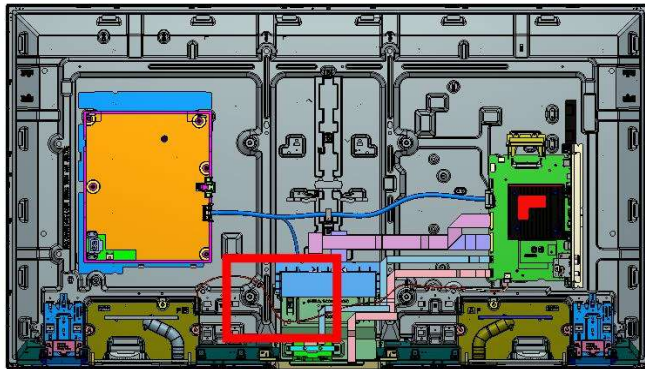


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

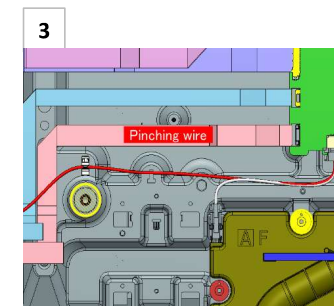
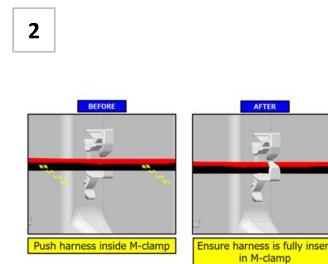
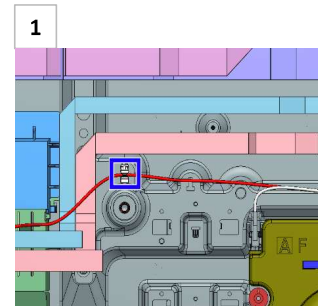
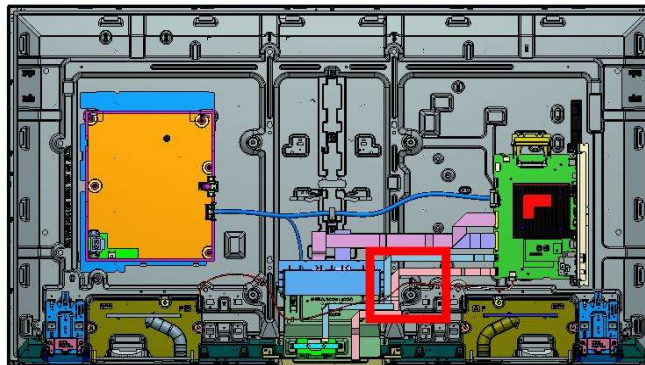
SECTION 3 KD-55X85J

3-3. WIRE DRESSING

Wire Dressing



Wire Dressing

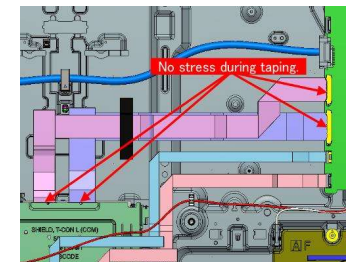
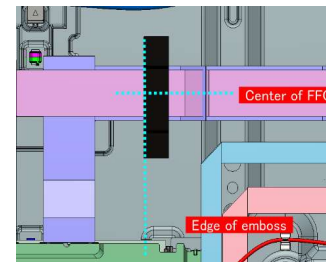
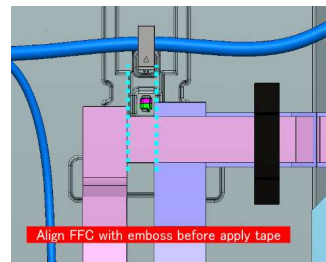
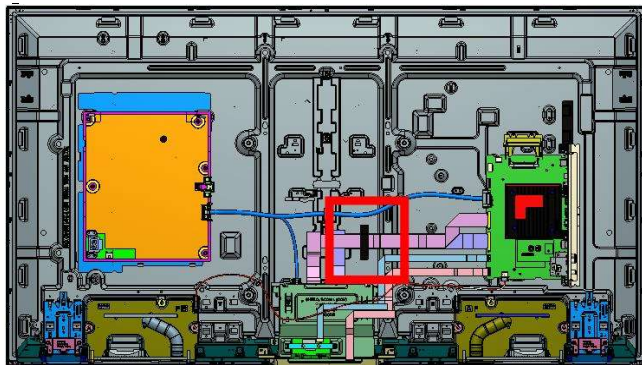


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

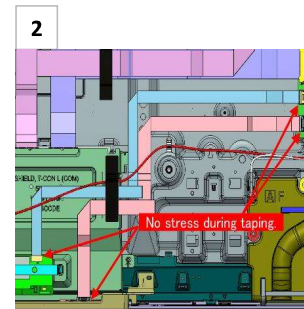
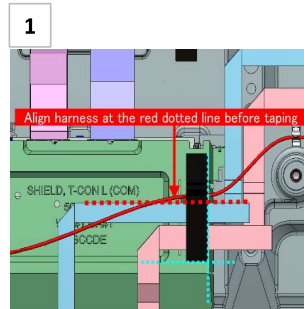
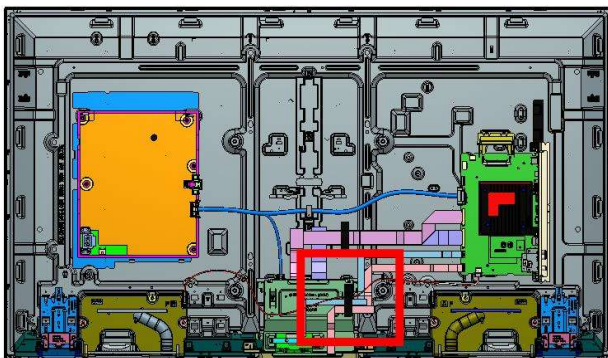
SECTION 3 KD-55X85J

3-3. WIRE DRESSING

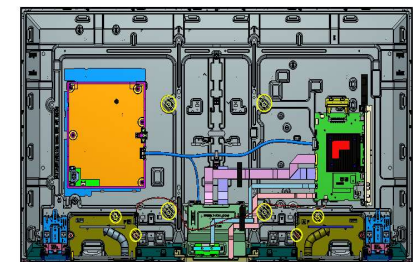
Tape



Tape



Information



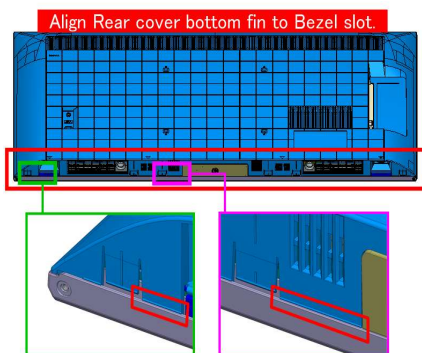
Caution : Keep harness away from inhibit area

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

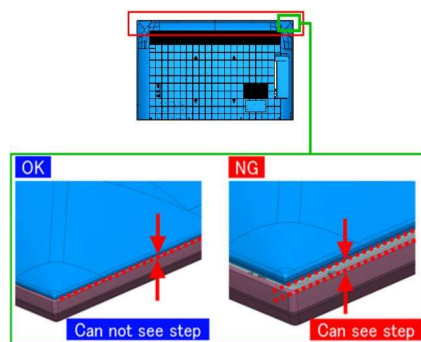
SECTION 3 KD-55X85J

3-3. WIRE DRESSING

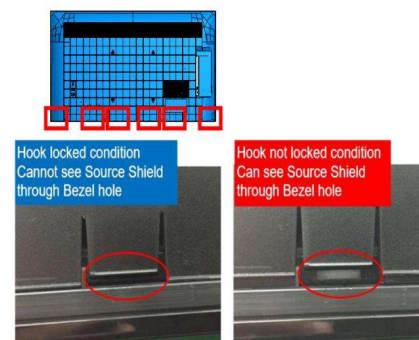
Information



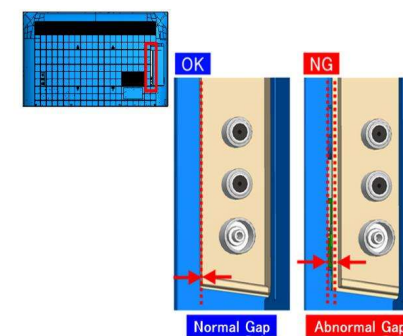
Information





Information



Information

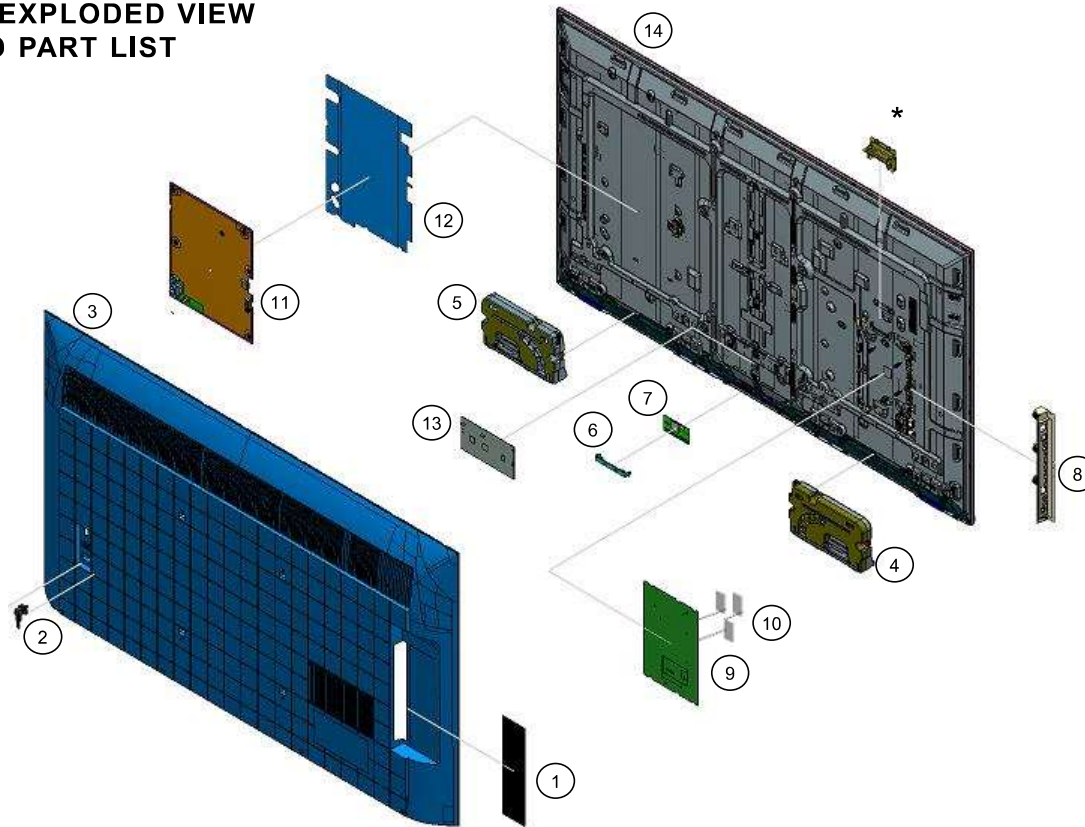


SECTION 3 KD-55X85J

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

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

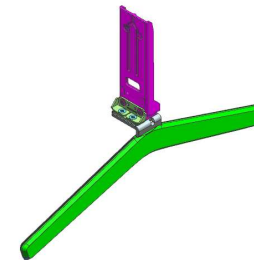
3-4 EXPLODED VIEW AND PART LIST



* Only on limited region / country / TV model

Stand

(15) (16)



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4






SECTION 5

SECTION 6

SMART CORE

SECTION 3 KD-55X85J

SET PART LIST

REF. NO	PART NO.	DESCRIPTION	KD-55X85J
			UCM
1	5-024-894-01	LABEL, SIDE TERMINAL (RIS)	.
 2	1-005-642-11	C7L AC POWER CORD SETS (US)	.
3	5-027-815-21	REAR COVER ASSY (L LYX)	.
4	1-004-509-12	SP-BOX ASSY,FY20 W30L-FA	.
5	1-004-509-22	SP-BOX ASSY,FY20 W30L-FB	.
6	5-009-258-11	BRACKET, WIFI(BNN)	.
6	5-009-258-21	BRACKET, WIFI(BNN) - Optional	.
 7	1-005-419-31	WLAN/BT MODULE(11AC)FXC	.
8	5-021-551-31	BRACKET SIDE (BNN) A	.
 9	A-5027-359-A	COMPL_SVC_BM5A_AX_UCM	.
10	4-457-451-11	SHEET, THERMAL (BAF)	.
 11	1-004-422-22	GL01B-STATIC CONVERTER (TV)	.
12	5-027-740-02	SHEET, INSULATION (L PHN) A	.
12	5-027-740-12	SHEET, INSULATION (L PHN) A – Optional	.
13	1-011-256-21	MOUNTED PWB E-T-CON (55)	.
 14	A-5029-022-A	P-MOD(YDBM055CCS01)SVC	.
15	5-022-204-21	STAND, L (2L LYX) A	.
16	5-022-205-21	STAND, R (2L LYX) A	.

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

SECTION 3 KD-55X85J

SCREW

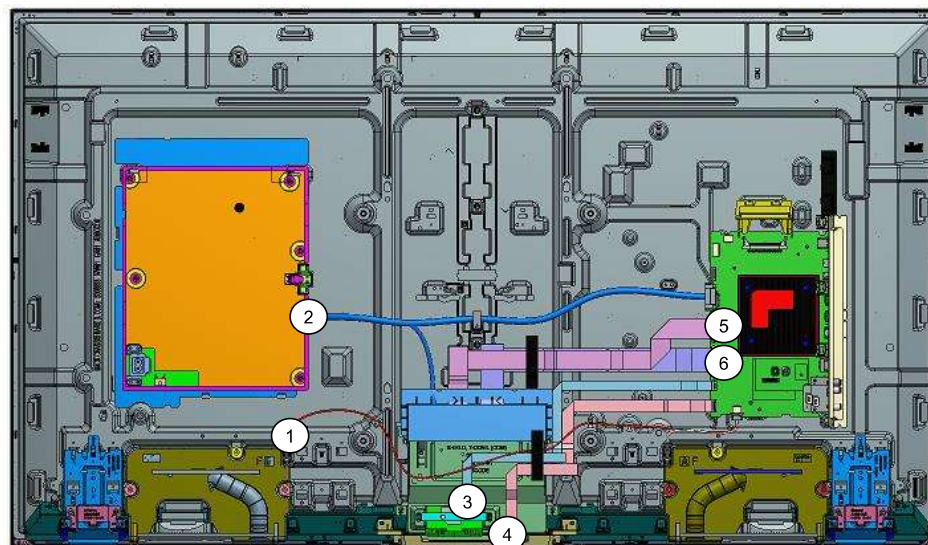


REMARK	P/N	DESCRIPTION	QUANTITY	TORQUE
○	5-015-521-01	SCREW +PSW M6x16 W14	4	1.2 ± 0.1 N.m
●	4-579-926-01	M3x3.0 STEP	1	0.4 ± 0.05 N.m
○	4-472-518-11	SCREW, +PSW M3X6	8	0.4 ± 0.05 N.m
●	2-580-592-01	SCREW, +PSW M3X8	1	0.4 ± 0.05 N.m

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

SECTION 3 KD-55X85J

CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-006-501-32	CONNECTOR ASSY 4P (SP)	CN3550(BM5A)/CN6603(BM5ST)-SP(1)
2	1-011-594-11	CONNECTOR ASSY 30P	CN1701(BM5A)-CN6401(GL)-CON3(TCON)(1)
3	1-006-505-11	FLEXIBLE FLAT CABLE 20P	CN3801(BM5A)-J1(WIFI/BT)(1)
4	1-006-510-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5A)-CN102(HT2)(1)
5	1-011-598-11	FLEXIBLE FLAT CABLE 41P	CN4201(BM5A)-TCON(1)
6	1-010-542-11	FLEXIBLE FLAT CABLE 51P	CN4200(BM5A)-U1(T-CON)(1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

SECTION 3 KD-55X85J

OTHER PARTS

PART NO.	DESCRIPTION	KD-55X85J	REMARKS
		UCM	
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	
5-022-225-12	BAG, CL ASSY (2L LYX)	•	Including CLAMPER (4L BNN) (Qty 2) & CUSHION CL (LYX) , (Qty 2)
4-744-177-01	GASKET SB (3L BGO)	•	
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	•	
*5-024-884-11	REFERENCE GUIDE	•	
*5-024-887-11	SETUP GUIDE	•	
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	
5-009-861-02	VESA SPACER A (COM)	•	Screw Extension for Fall Lock and Wall Mount , (Qty 1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	------------------	-----------	-----------	-----------	------------

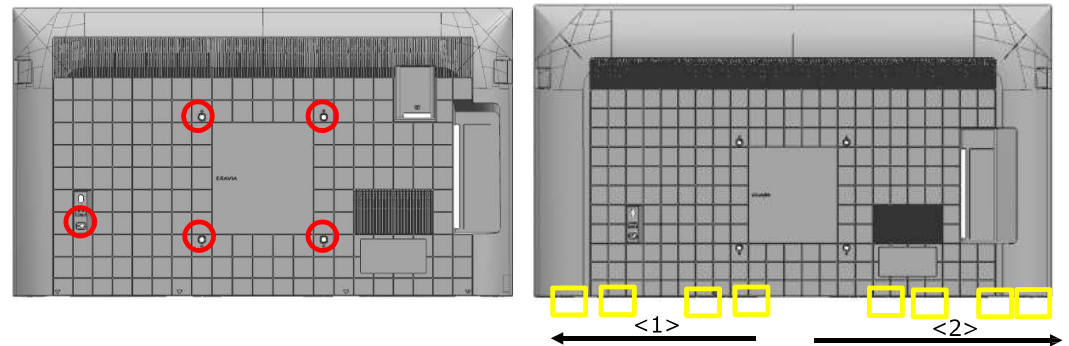
SECTION 4 KD-65X85J

4-1. DISASSEMBLY AND REMOVAL CAUTION

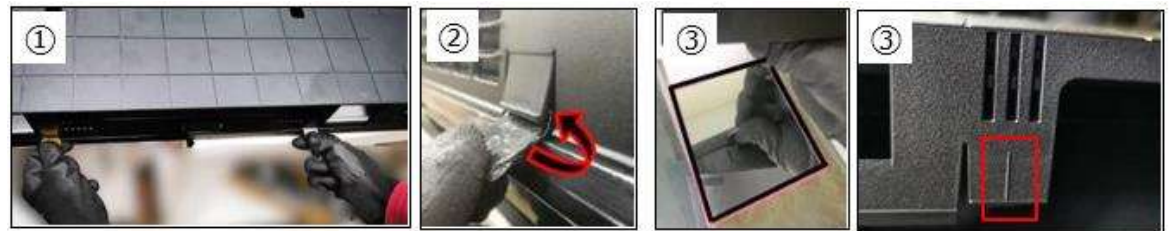
Rear Cover

1. Remove screw from rear cover.

2. Unhook bottom hook, starting from center.

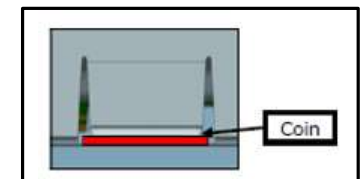


- ① Unhook two hooks closet to center simultaneously to prevent lock back.
- ② Refer to next page for the location of hooks.
- ③ Can use mirror/feel the line to assist locating the hook position.



Locate both hooks and unhook using coin/Jig.

Coin or Jig to unhook bottom Rear Cover-Bezel hook
 *Wrap coin in tape(55mmX25mm)
 *Thickness of coin approximately 2mm.

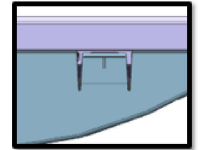
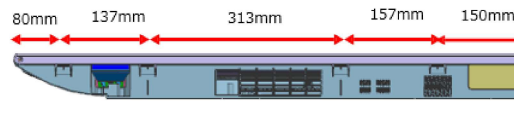


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

SECTION 4 KD-65X85J


4-1. DISASSEMBLY AND REMOVAL CAUTION

Bottom Hook Position



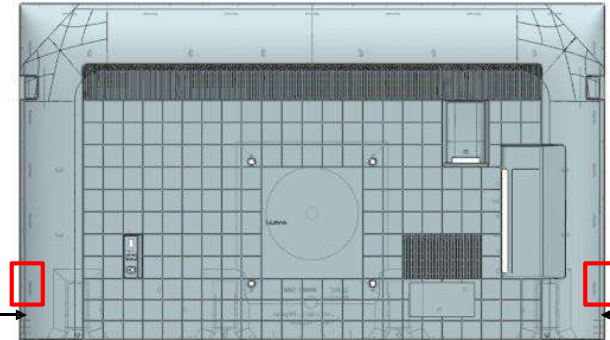
3. Unhook corner hook

Legend

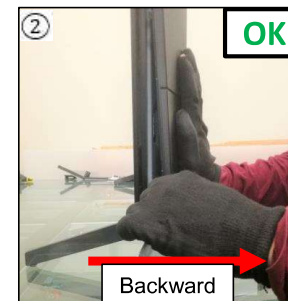
 = Back Chassis - Rear Cover Hook

Ruler or jig to release corner hook

*Wrap ruler with tape to prevent scratch



- ① When releasing hook, pull the Rear Cover corner and insert jig.
- ② Ensure that the jig is pulled backward.
- ③ Do NOT pivot on bezel when inserting jig.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

SECTION 4 KD-65X85J

4-1. DISASSEMBLY AND REMOVAL CAUTION

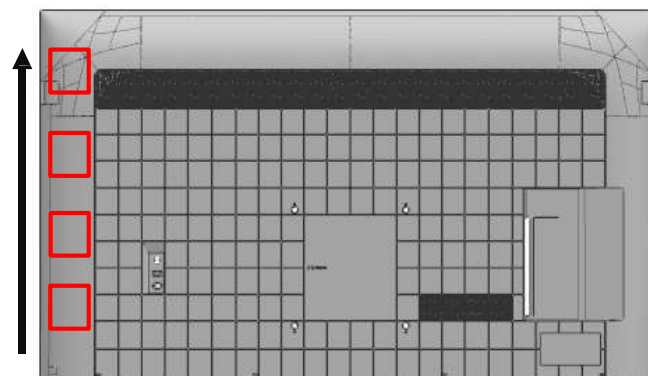
4. Unhook left side hooks

Total Rear Cover Back Chassis :
65" = 4 hooks

Legend

 =Back Chassis-Rear Cover Hook

 =Rear Cover-Bezel Hook



① Grip Rear Cover with hand and unhook Rear Cover – Back Chassis hook using ruler/jig.

② Flex the Rear Cover outwards to unhook. Support set with arm.



SECTION 4 KD-65X85J

4-1. DISASSEMBLY AND REMOVAL CAUTION

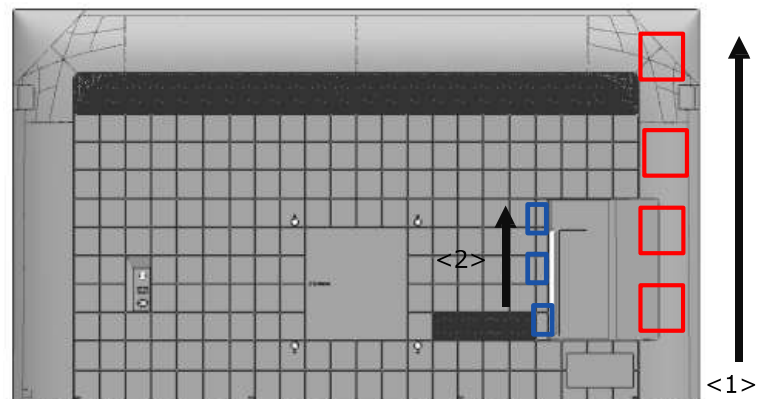
5. Unhook right side hooks

Total Side Bracket hooks : 4 hooks.
Total Rear Cover – Back Chassis Hooks :
65" = 4 hooks

Legend

- =Back Chassis-Rear Cover Hook
- =Rear Cover-Bezel Hook
- =SJB Hook

- ① Unhook side hooks <1>.
- ② Pull Rear Cover below the Side Jack to release the hook <2>.
- ③ Proceed to unhook remaining side hooks <3>.



SECTION 4 KD-65X85J

4-1. DISASSEMBLY AND REMOVAL CAUTION

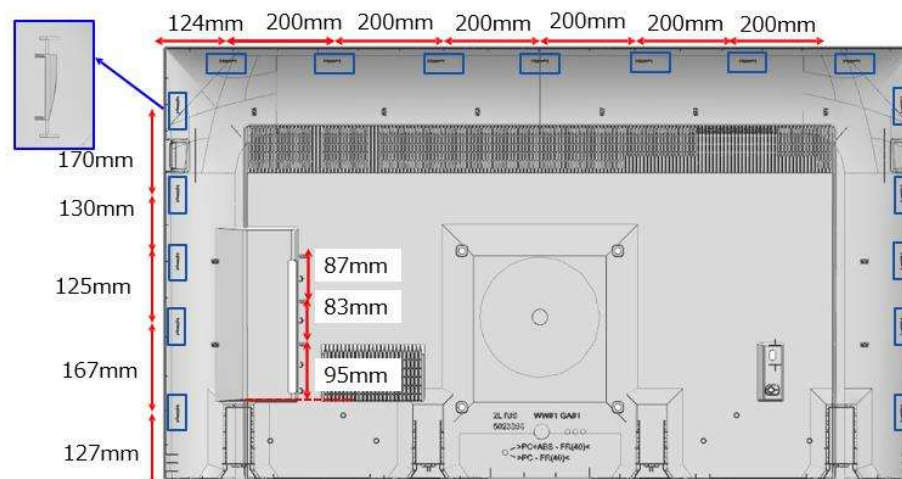
6. Unhook top row hooks

Total Hooks (Top Row):
65" = 7 hooks

- ① Tilt the rear cover and push upwards on the left/right side.
- ② Pull Rear Cover below the side jack to release the hook



Hook Positioning



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE

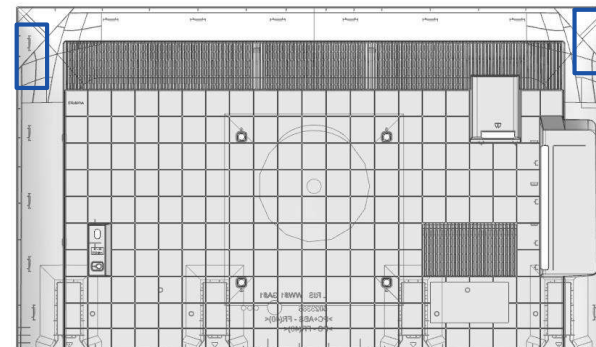
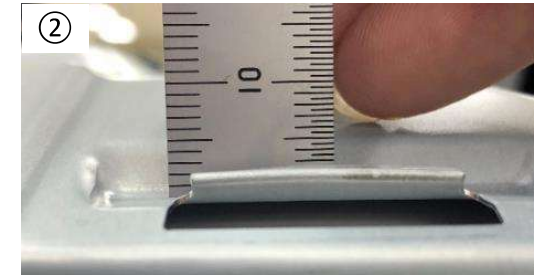
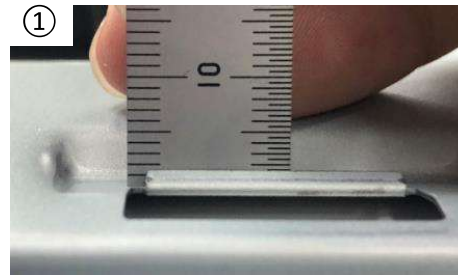
SECTION 4 KD-65X85J

4-1. DISASSEMBLY AND REMOVAL CAUTION

Caution Point :

- ① Back Chassis in good condition if Top side hook unhook then proceed Top hooks

- ② Back Chassis in good condition if Top side hook unhook then proceed Top hooks



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE

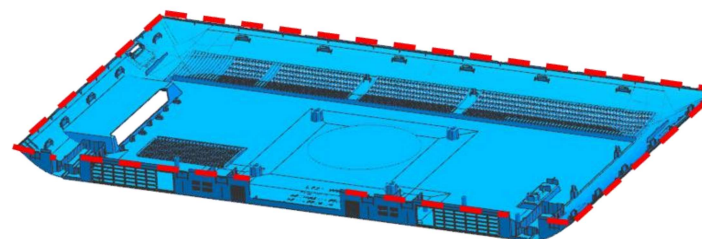
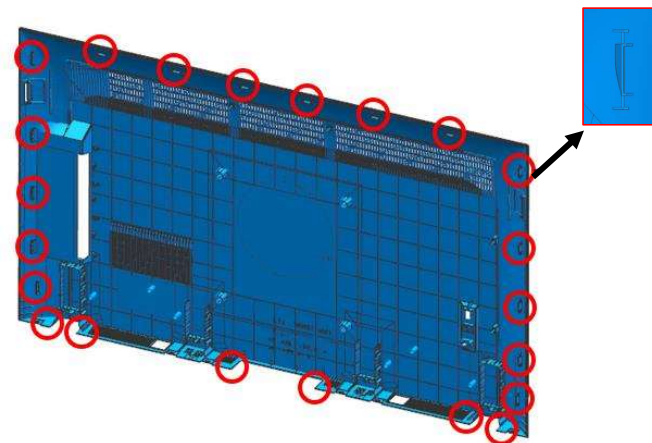
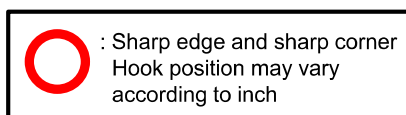
SECTION 4 KD-65X85J

4-1. DISASSEMBLY AND REMOVAL CAUTION

Sharp Edge Information

Caution Point :

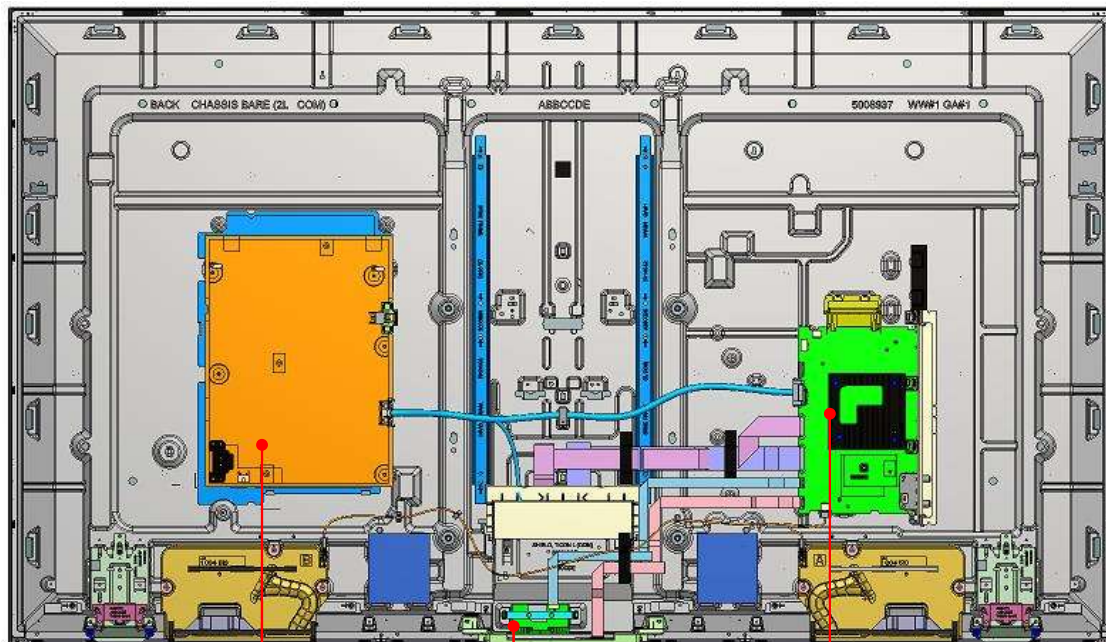
Please wear gloves when removing rear cover to avoid sharp edge at bottom side and hook area as shown in figure.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

SECTION 4 KD-65X85J

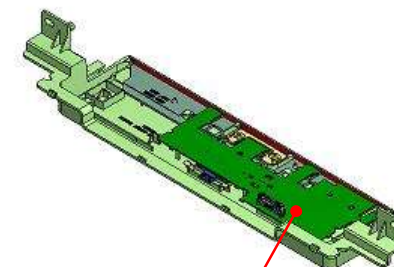
4-2. BOARD LOCATION



POWER BOARD

WLAN BOARD

MAIN BOARD



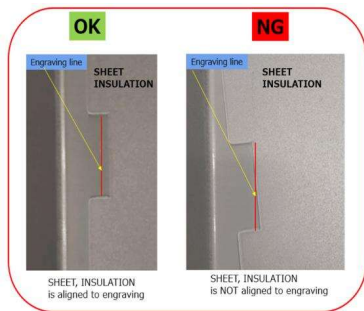
RECEIVER BOARD

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

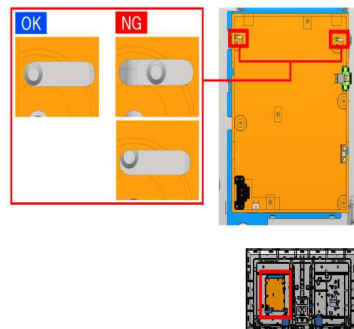
SECTION 4 KD-65X85J

4-3. WIRE DRESSING

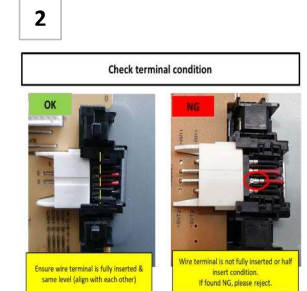
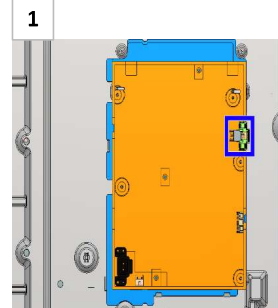
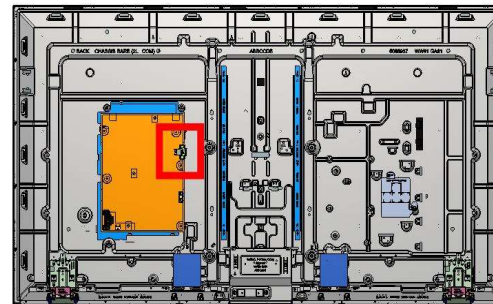
Information



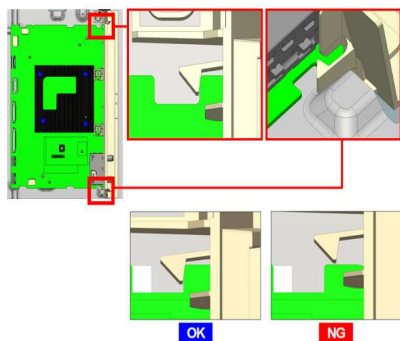
Information



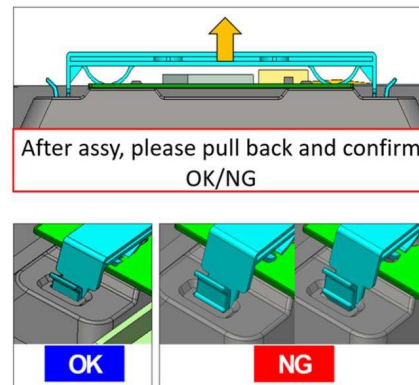
Connect



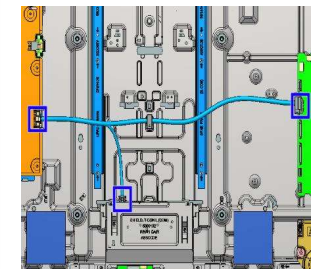
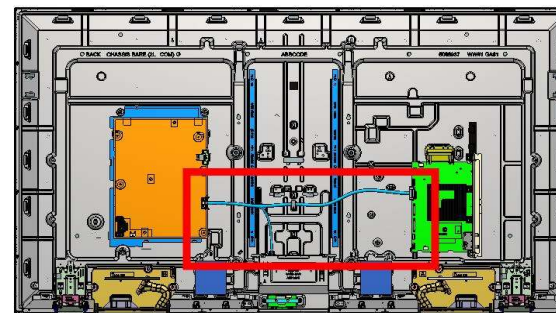
Information



Information



Connect

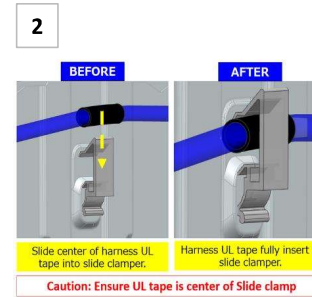
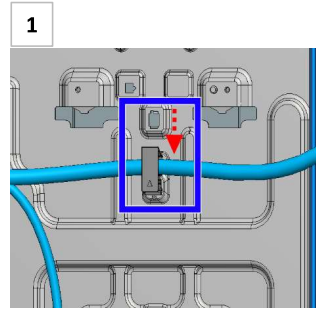
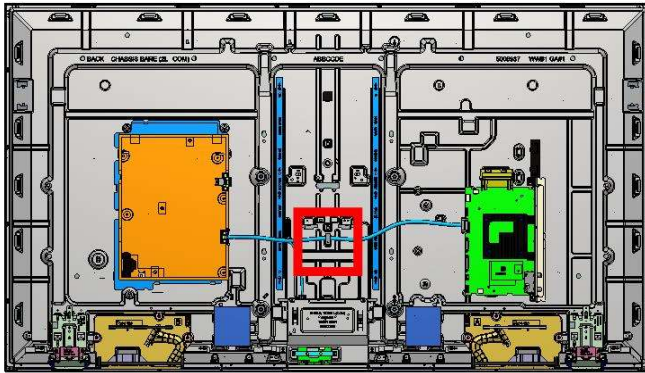


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

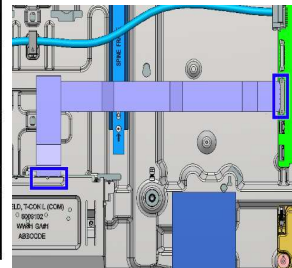
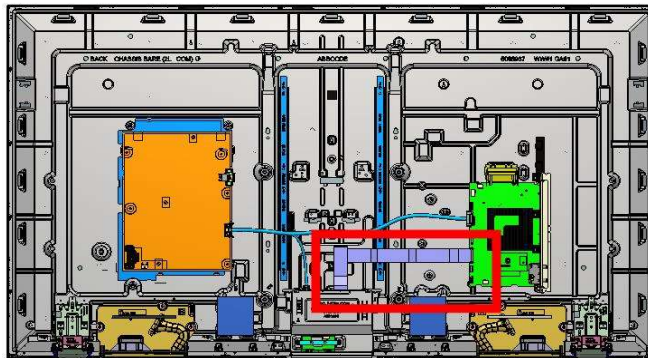
SECTION 4 KD-65X85J

4-3. WIRE DRESSING

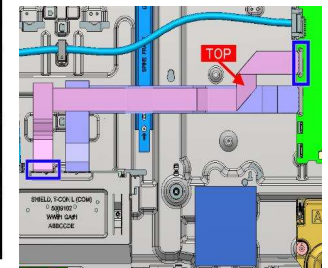
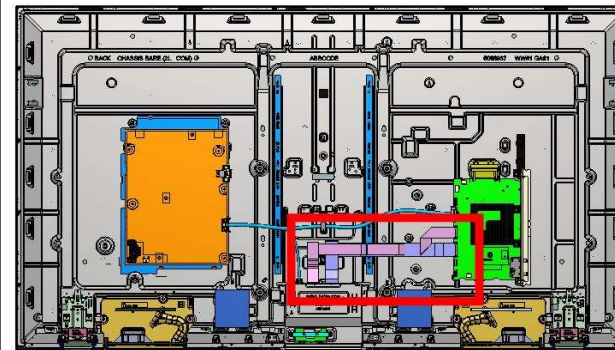
Wire Dressing



Connect



Connect

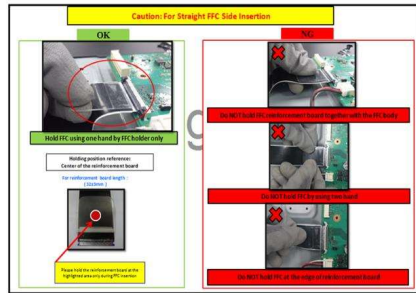


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

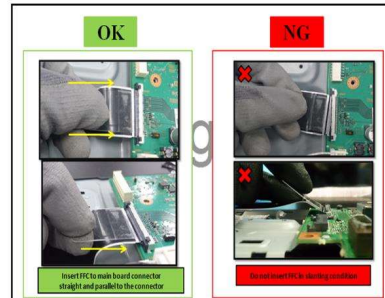
SECTION 4 KD-65X85J

4-3. WIRE DRESSING

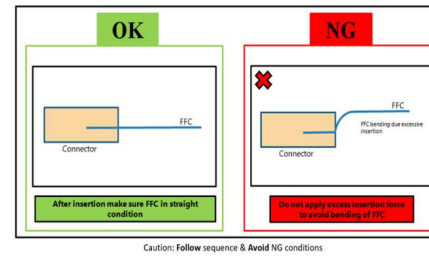
Information



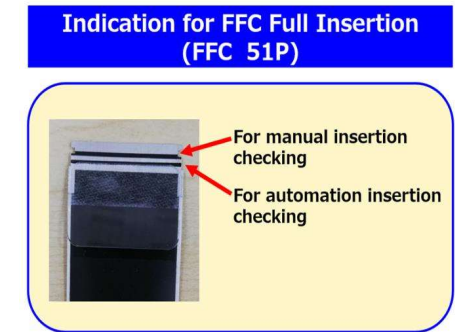
Information



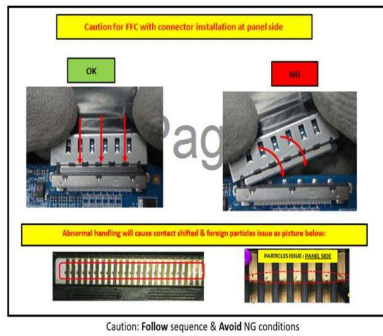
Information



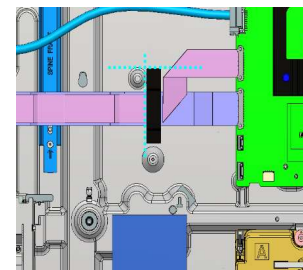
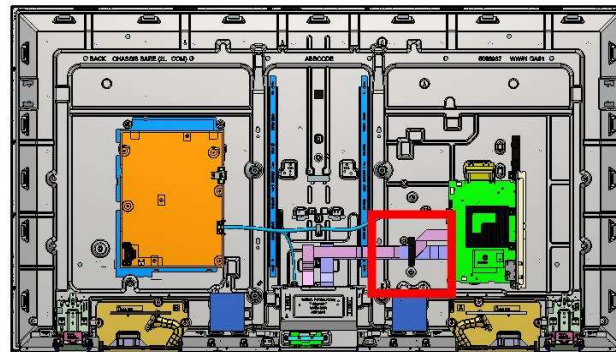
Information



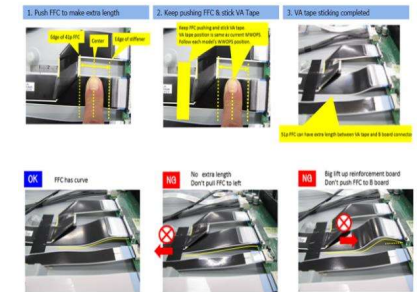
Information



Tape



Information



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

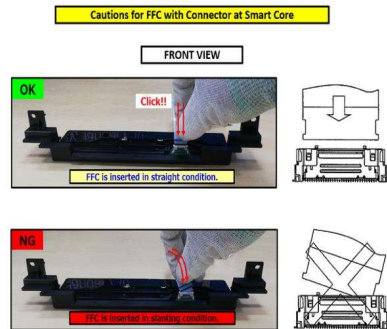
SECTION 6

SMART CORE

SECTION 4 KD-65X85J

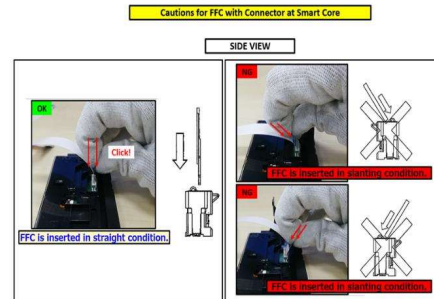
4-3. WIRE DRESSING

Information



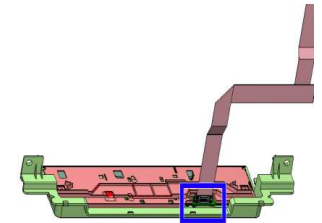
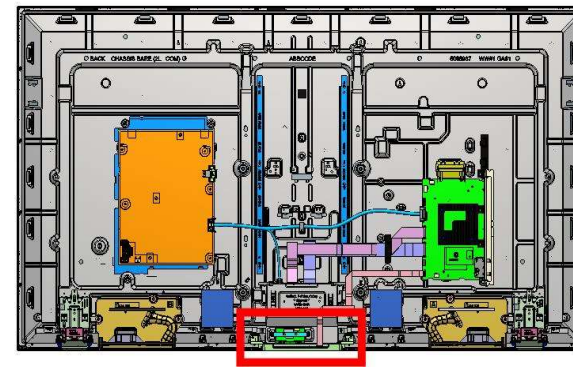
* Do not push hard on FFC connector on H Board to avoid connector peel off

Information



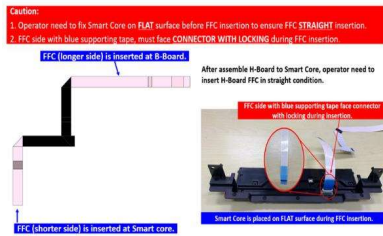
* Do not push hard on FFC connector on H Board to avoid connector peel off

Connect

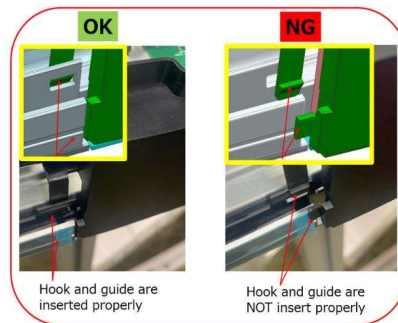


Caution :
Do not bend header on H Board while insert FFC

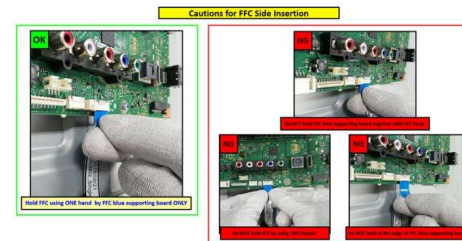
Information



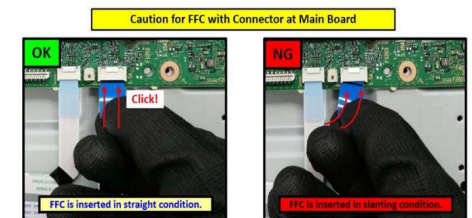
Information



Information



Information



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

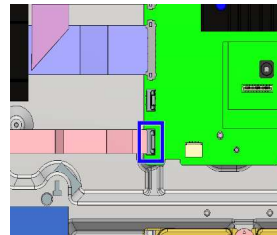
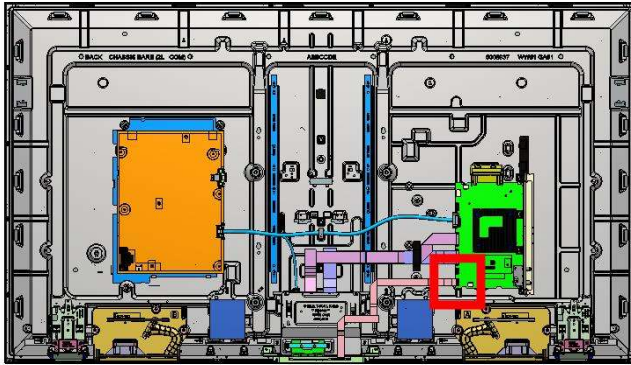
SECTION 6

SMART CORE

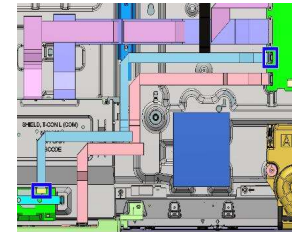
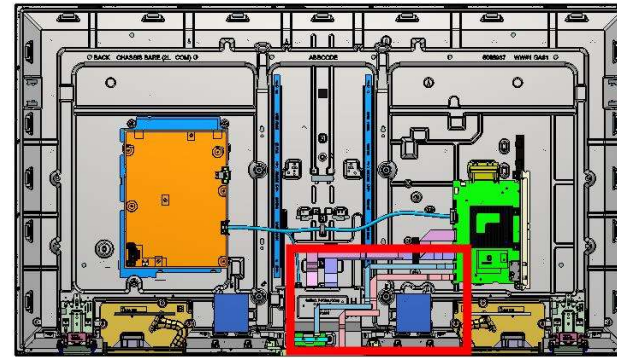
SECTION 4 KD-65X85J

4-3. WIRE DRESSING

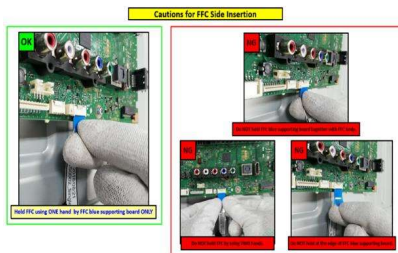
Connect



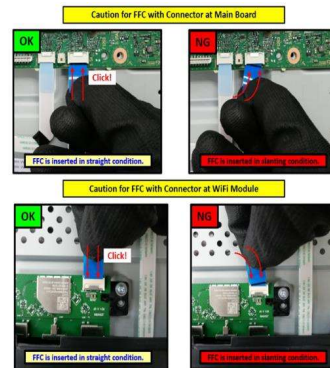
Connect



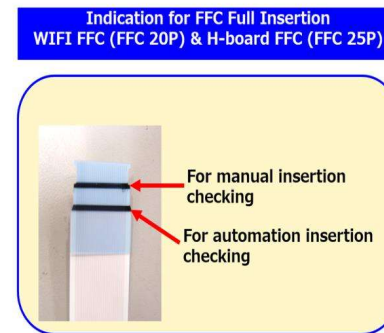
Information



Information



Information



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

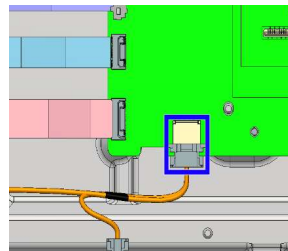
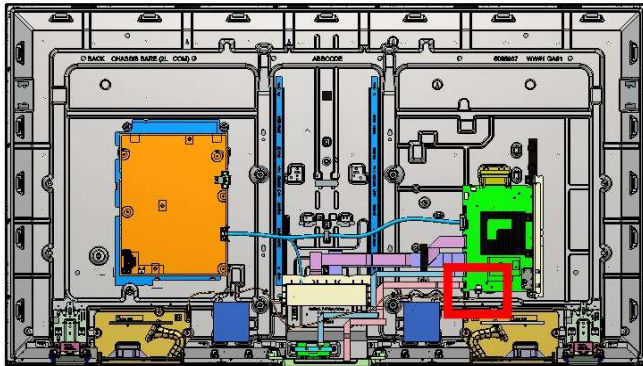
SECTION 6

SMART CORE

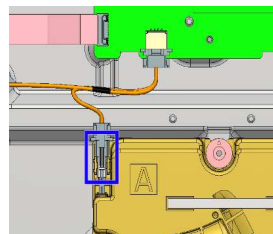
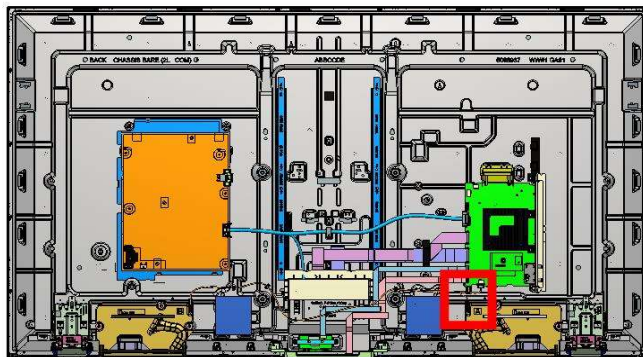
SECTION 4 KD-65X85J

4-3. WIRE DRESSING

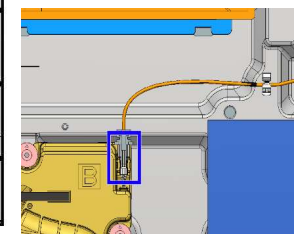
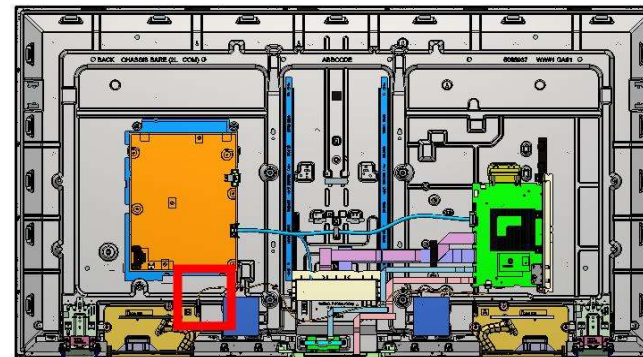
Connect



Connect



Connect

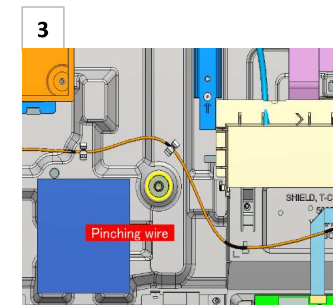
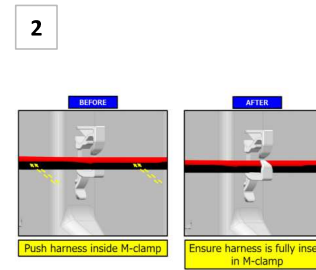
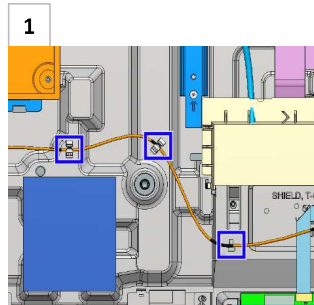
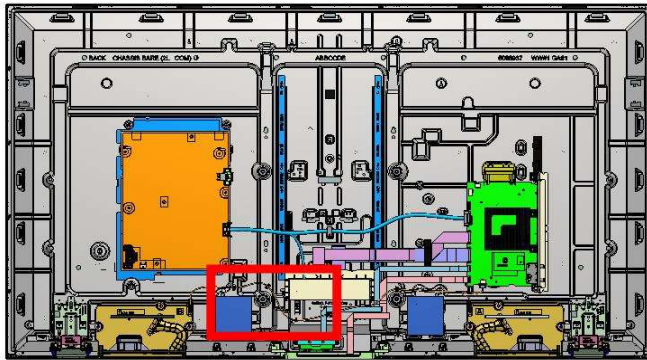


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

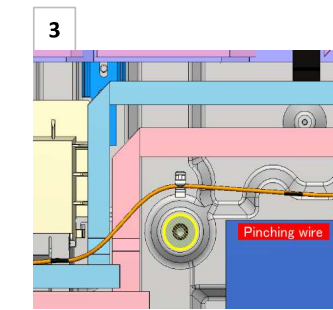
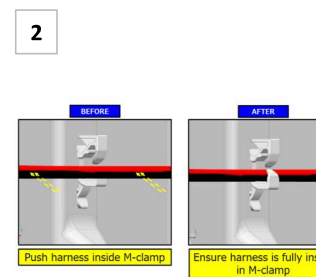
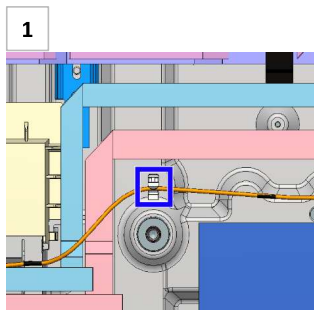
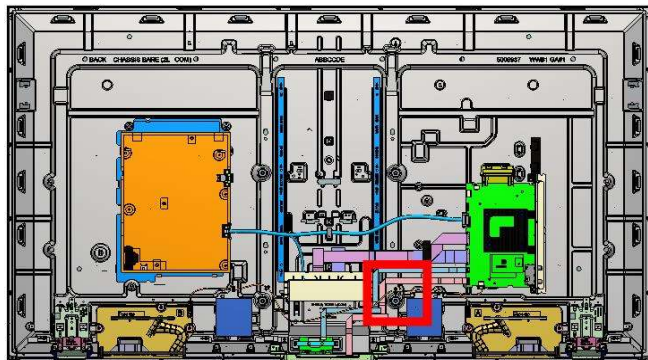
SECTION 4 KD-65X85J

4-3. WIRE DRESSING

Wire Dressing



Wire Dressing

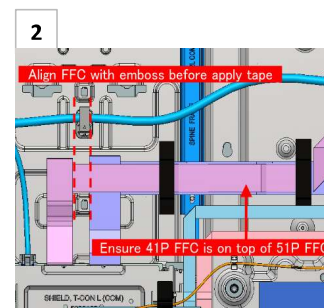
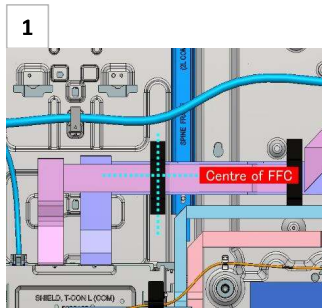
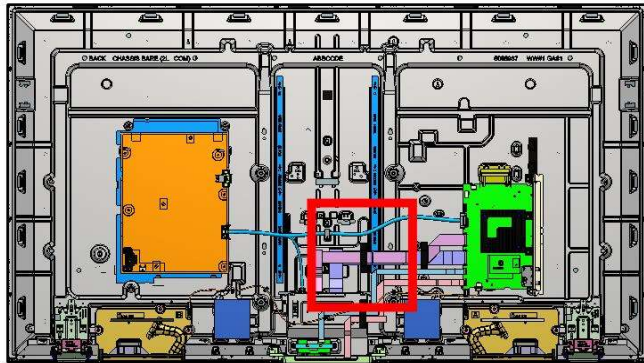


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

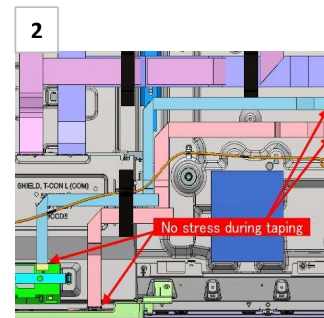
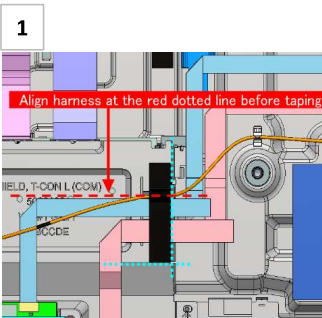
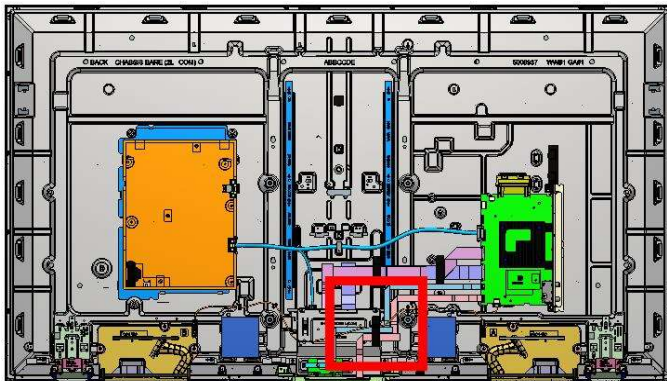
SECTION 4 KD-65X85J

4-3. WIRE DRESSING

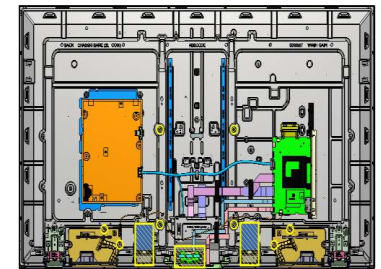
Tape



Tape



Information



Caution : Keep harness away from Inhibit Area

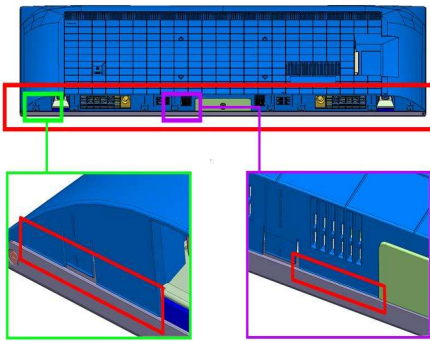
TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

SECTION 4 KD-65X85J

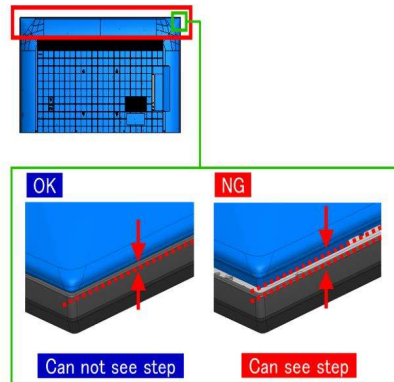
4-3. WIRE DRESSING

Information

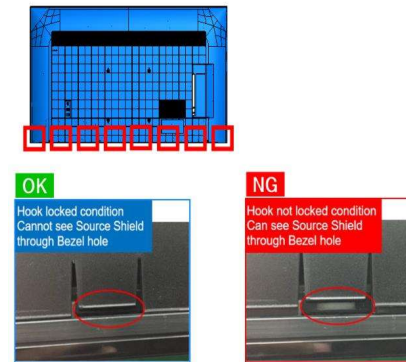
Align Rear cover bottom fin to Bezel slot



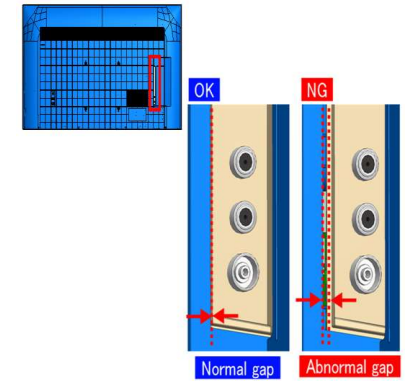
Information





Information



Information

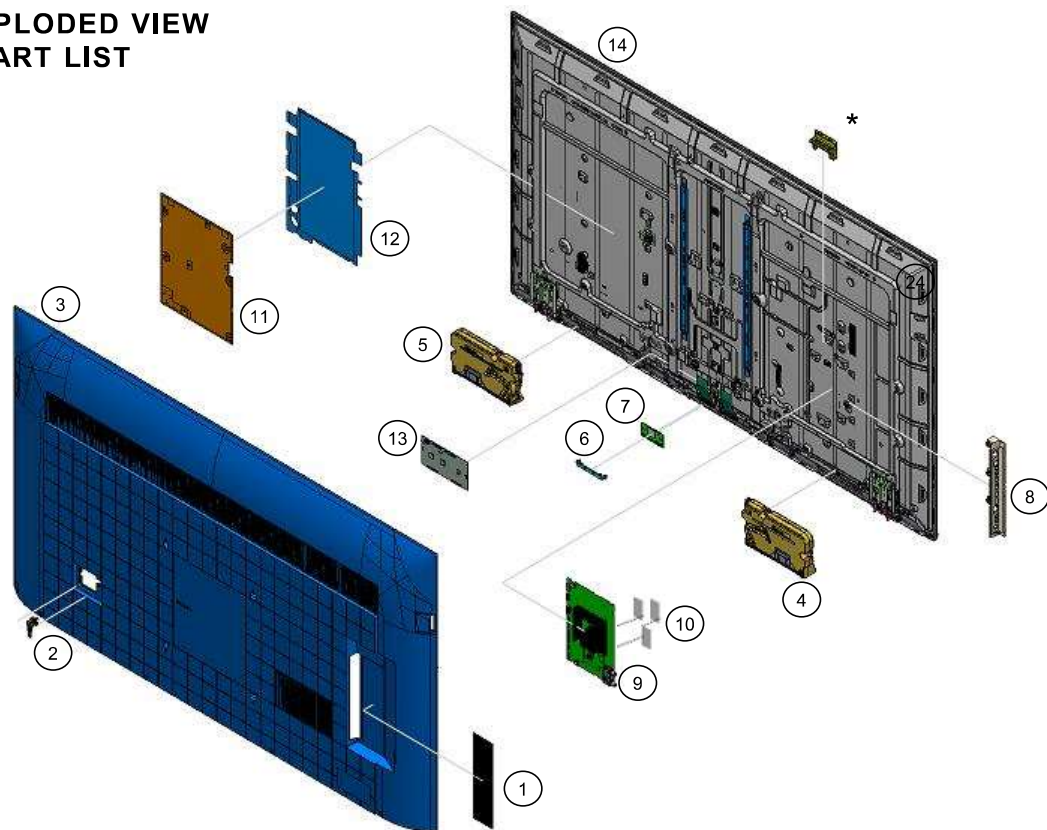


SECTION 4 KD-65X85J

- 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

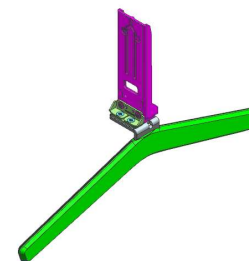
4-4 EXPLODED VIEW AND PART LIST



* Only on limited region / country / TV model

Stand

(15) (16)



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4






SECTION 5

SECTION 6

SMART CORE

SECTION 4 KD-65X85J

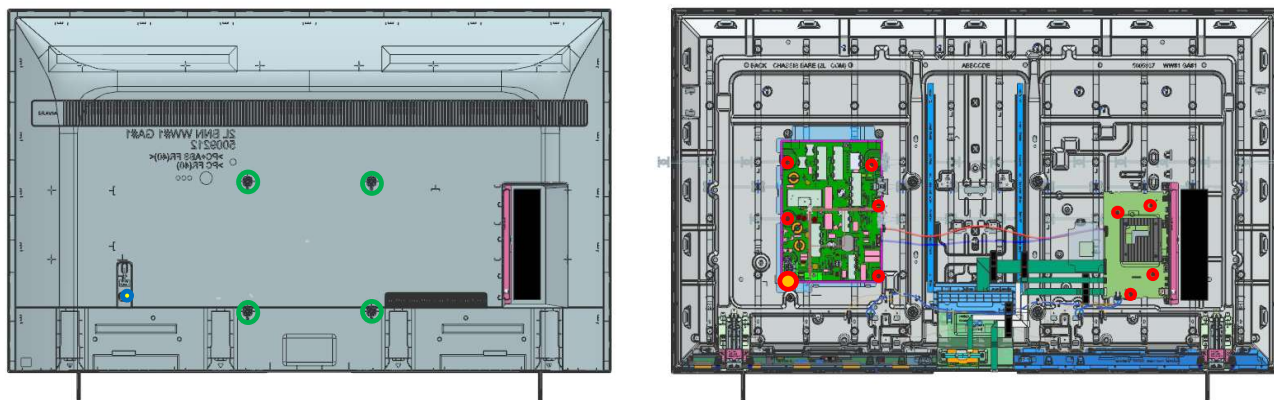
SET PART LIST

REF. NO	PART NO.	DESCRIPTION	KD-65X85J
			UCM
1	5-024-894-01	LABEL, SIDE TERMINAL (RIS)	•
 2	1-005-642-11	C7L AC POWER CORD SETS (US)	•
3	5-027-817-22	REAR COVER ASSY (2L LYX)	•
4	1-004-509-12	SP-BOX ASSY,FY20 W30L-FA	•
5	1-004-509-22	SP-BOX ASSY,FY20 W30L-FB	•
6	5-009-258-11	BRACKET, WIFI(BNN)	•
6	5-009-258-21	BRACKET, WIFI(BNN) - Optional	•
 7	1-005-419-31	WLAN/BT MODULE(11AC)FXC	•
8	5-021-551-31	BRACKET SIDE (BNN) A	•
 9	A-5027-359-A	COMPL_SVC_BM5A_AX_UCM	•
10	4-457-451-11	SHEET, THERMAL (BAF)	•
 11	1-004-423-23	GL02P-STATIC CONVERTER (TV)	•
12	5-027-741-01	SHEET, INSULATION (2L PHN) A	•
12	5-027-741-11	SHEET, INSULATION (2L PHN) A- Optional	•
13	1-011-258-21	MOUNTED PWB E-T-CON (65)	•
 14	A-5029-020-A	P-MOD(YDBM065CCS01)SVC	•
15	5-022-204-21	STAND, L (2L LYX) A	•
16	5-022-205-21	STAND, R (2L LYX) A	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

SECTION 4 KD-65X85J

SCREW

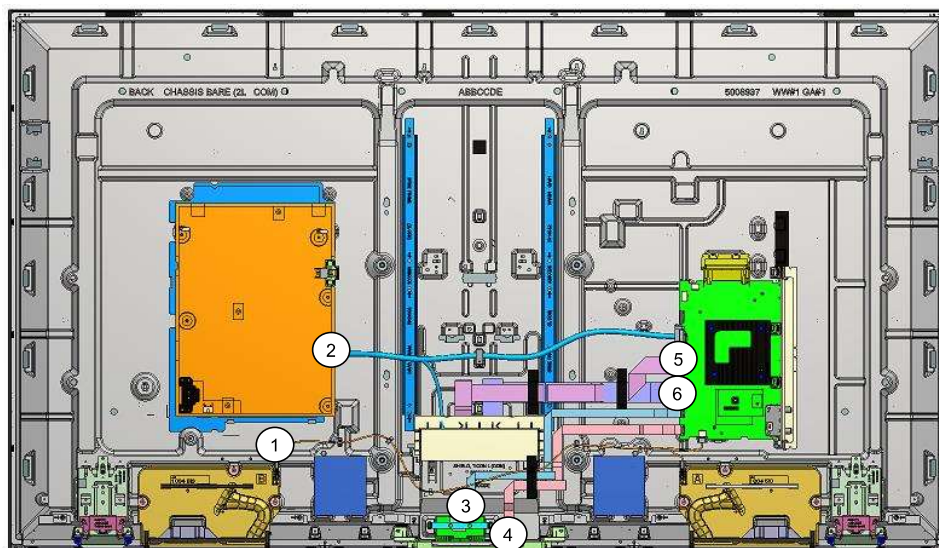


REMARK	P/N	DESCRIPTION	QUANTITY	TORQUE
○	4-472-518-11	SCREW, +PSW M3X6	9	0.4 ± 0.05 N.m
○	2-580-592-01	SCREW, +PSW M3X8	1	0.4 ± 0.05 N.m
○	5-015-521-01	SCREW +PSW M6x16 W14	4	1.2 ± 0.1 N.m
○	4-579-926-01	SCREW M3x3.0 STEP	1	0.4 ± 0.05 N.m

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

SECTION 4 KD-65X85J

CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-006-513-33	CONNECTOR ASSY 4P (SP)	CN3550(BM5A)/CN6603(BM5ST)-SP(1)
2	1-011-594-11	CONNECTOR ASSY 30P	CN1701(BM5A)-CN6401(GL)-CON3(TCON)(1)
3	1-006-505-11	FLEXIBLE FLAT CABLE 20P	CN3801(BM5A)-J1(WIFI/BT)(1)
4	1-006-510-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5A)-CN102(HT2)(1)
5	1-011-598-11	FLEXIBLE FLAT CABLE 41P	CN4201(BM5A)-TCON(1)
6	1-010-542-11	FLEXIBLE FLAT CABLE 51P	CN4200(BM5A)-U1(T-CON)(1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

SECTION 4 KD-65X85J

OTHER PARTS

PART NO.	DESCRIPTION	KD-65X85J	REMARKS
		UCM	
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	
5-022-225-12	BAG, CL ASSY (2L LYX)	•	Including CLAMPER (4L BNN) (Qty 2) & CUSHION CL (LYX) , (Qty 2)
4-744-177-01	GASKET SB (3L BGO)	•	
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	•	
*5-024-884-11	REFERENCE GUIDE	•	
*5-024-887-11	SETUP GUIDE	•	
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	
5-009-861-02	VESA SPACER A (COM)	•	Screw Extension for Fall Lock and Wall Mount , (Qty 1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	------------------	-----------	-----------	------------

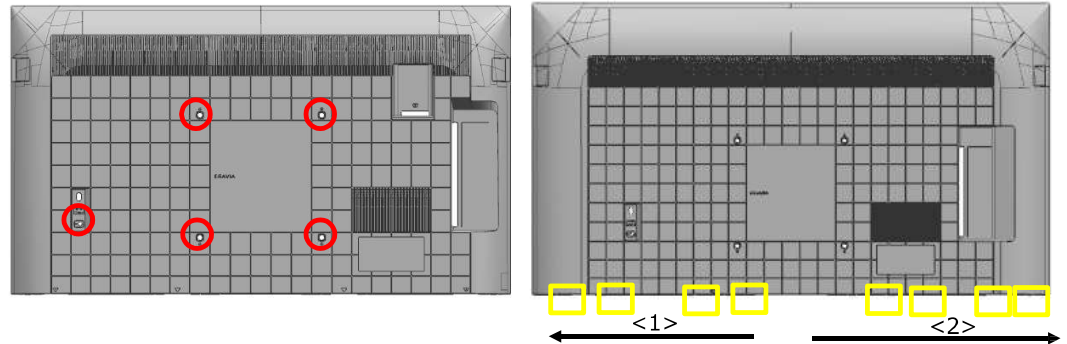
SECTION 5 KD-75X85J

5-1. DISASSEMBLY AND REMOVAL CAUTION

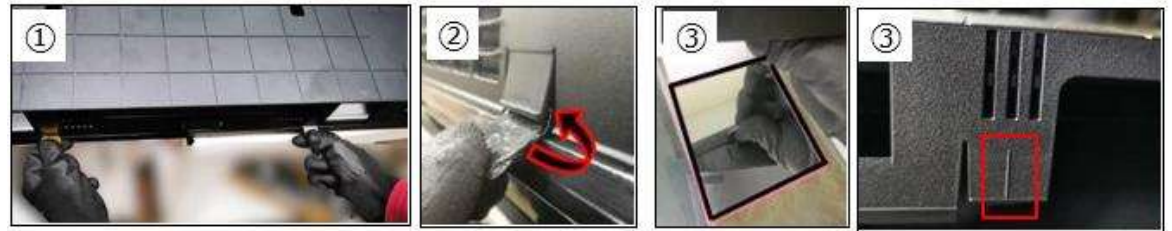
Rear Cover

1. Remove screw from rear cover.

2. Unhook bottom hook, starting from center.

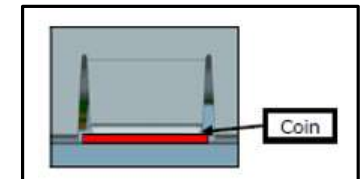


- ① Unhook two hooks closet to center simultaneously to prevent lock back.
- ② Refer to next page for the location of hooks.
- ③ Can use mirror/feel the line to assist locating the hook position.



Locate both hooks and unhook using coin/Jig.

Coin or Jig to unhook bottom Rear Cover-Bezel hook
 *Wrap coin in tape(55mmX25mm)
 *Thickness of coin approximately 2mm.

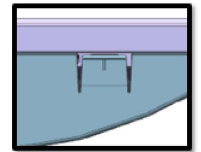
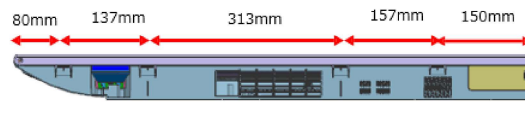


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

SECTION 5
SECTION 5
KD-75X85J
KD-75X85J

5-1. DISASSEMBLY AND REMOVAL CAUTION

Bottom Hook Position

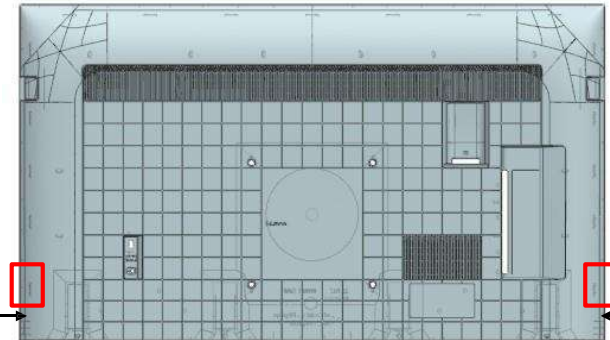


3. Unhook corner hook

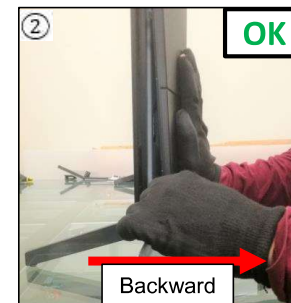
Legend

■ = Back Chassis - Rear Cover Hook

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



- ① When releasing hook, pull the Rear Cover corner and insert jig.
- ② Ensure that the jig is pulled backward.
- ③ Do NOT pivot on bezel when inserting jig.



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

5-1. DISASSEMBLY AND REMOVAL CAUTION

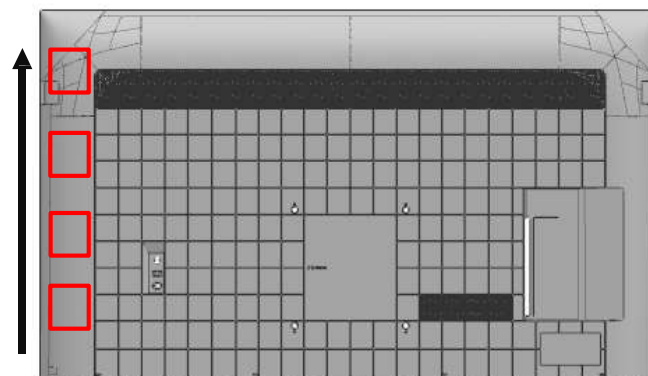
4. Unhook left side hooks

Total Rear Cover Back Chassis :
75" = 4 hooks

Legend

 =Back Chassis-Rear Cover Hook

 =Rear Cover-Bezel Hook



① Grip Rear Cover with hand and unhook Rear Cover – Back Chassis hook using ruler/jig.

② Flex the Rear Cover outwards to unhook. Support set with arm.



SECTION 5 KD-75X85J

5-1. DISASSEMBLY AND REMOVAL CAUTION

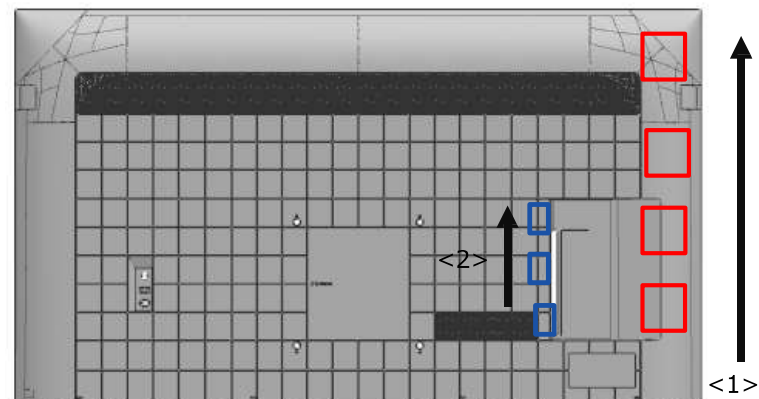
5. Unhook right side hooks

Total Side Bracket hooks : 4 hooks.
Total Rear Cover – Back Chassis Hooks :
75" = 4 hooks

Legend

- =Back Chassis-Rear Cover Hook
- =Rear Cover-Bezel Hook
- =SJB Hook

- ① Unhook side hooks <1>.
- ② Pull Rear Cover below the Side Jack to release the hook <2>.
- ③ Proceed to unhook remaining side hooks <3>.



SECTION 5 KD-75X85J

5-1. DISASSEMBLY AND REMOVAL CAUTION

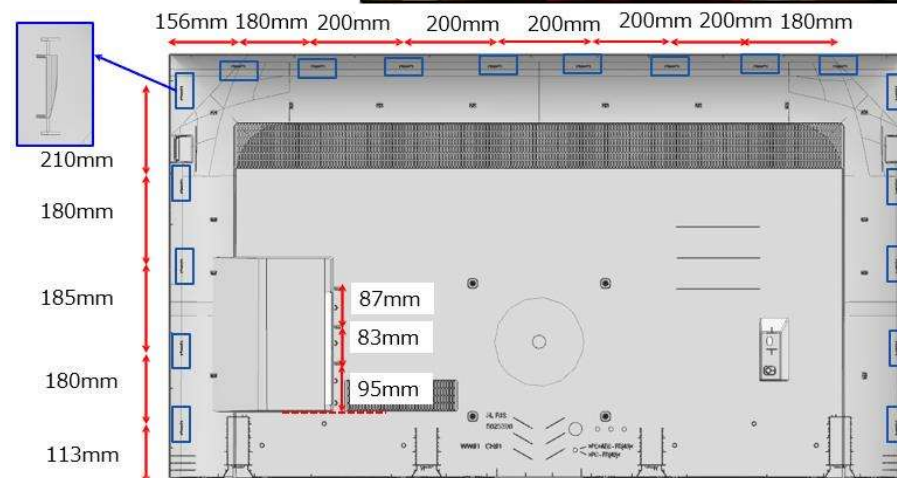
6. Unhook top row hooks

Total Hooks (Top Row):
75" = 8 hooks

- ① Tilt the rear cover and push upwards on the left/right side.
- ② Pull Rear Cover below the side jack to release the hook



Hook Positioning



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

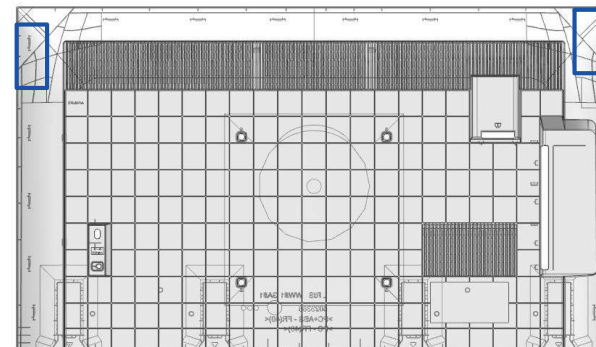
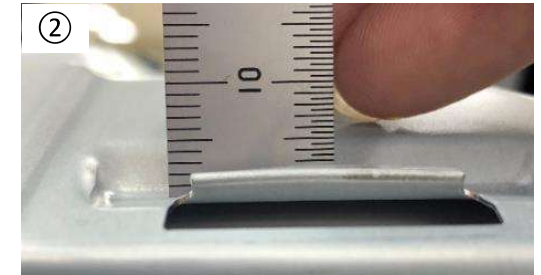
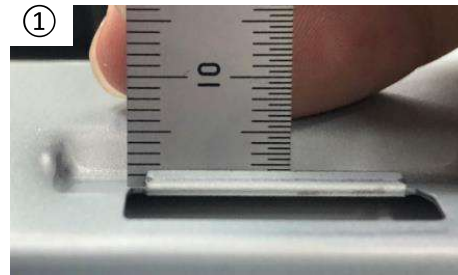
SECTION 5 KD-75X85J

5-1. DISASSEMBLY AND REMOVAL CAUTION

Caution Point :

- ① Back Chassis in good condition if Top side hook unhook then proceed Top hooks

- ② Back Chassis in good condition if Top side hook unhook then proceed Top hooks



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

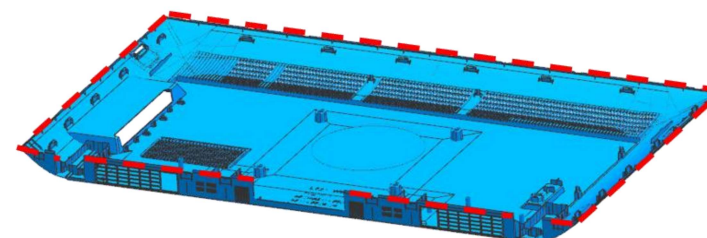
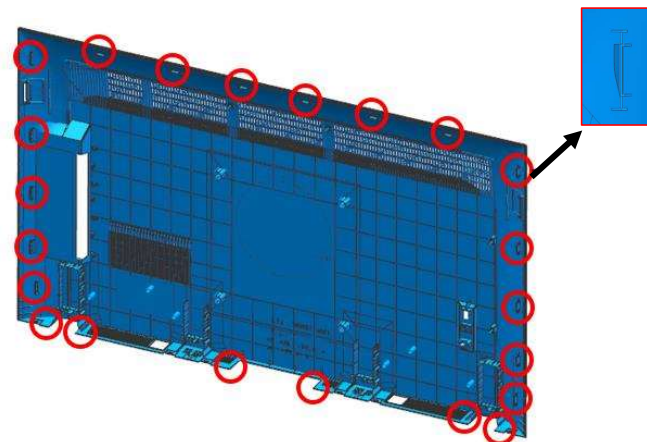
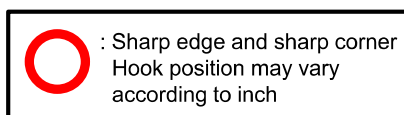
SECTION 5 KD-75X85J

5-1. DISASSEMBLY AND REMOVAL CAUTION

Sharp Edge Information

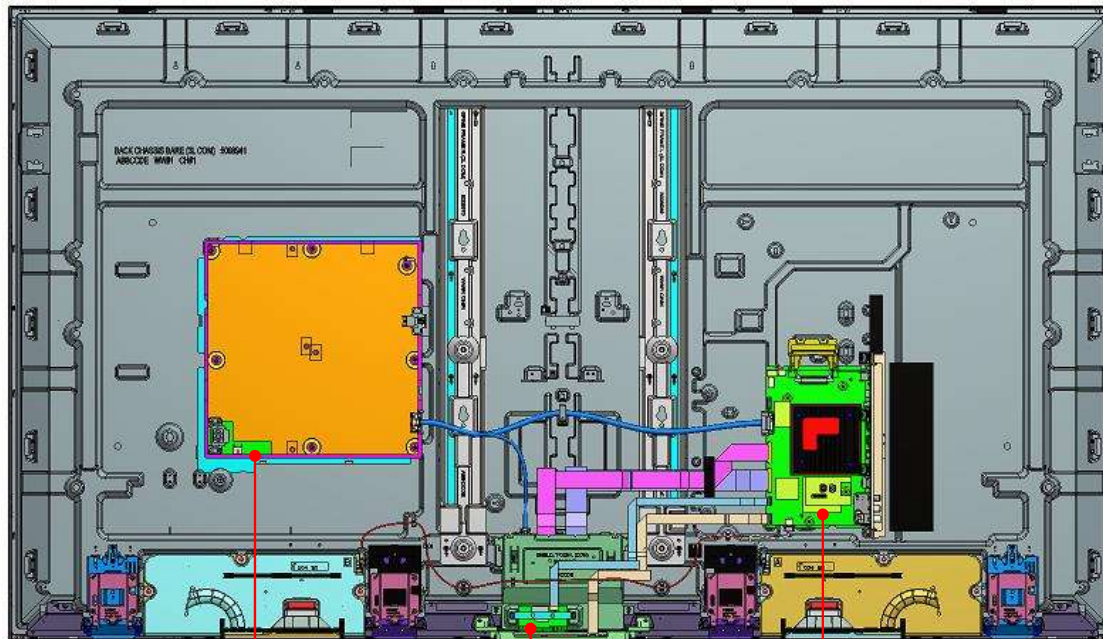
Caution Point :

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



SECTION 5 KD-75X85J

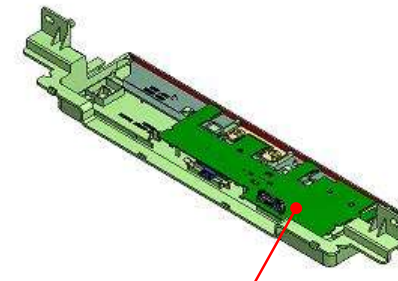
5-2. BOARD LOCATION



POWER BOARD

WLAN BOARD

MAIN BOARD



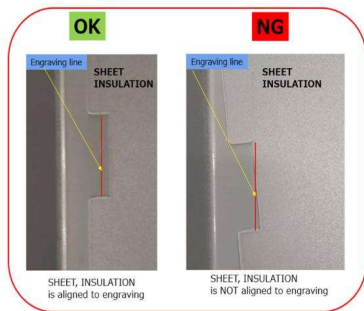
RECEIVER BOARD

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

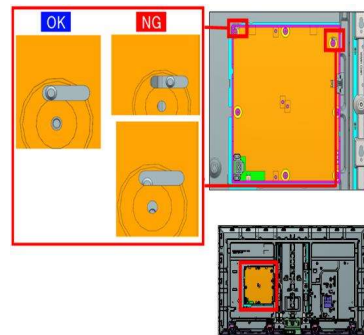
SECTION 5 KD-75X85J

5-3. WIRE DRESSING

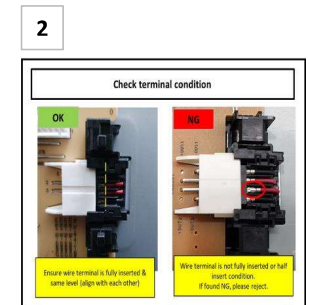
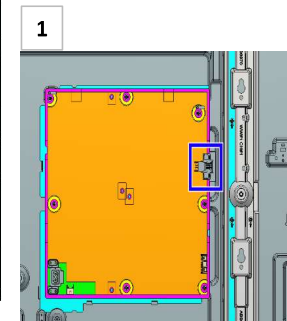
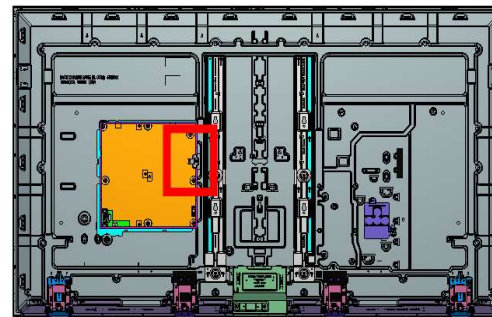
Information



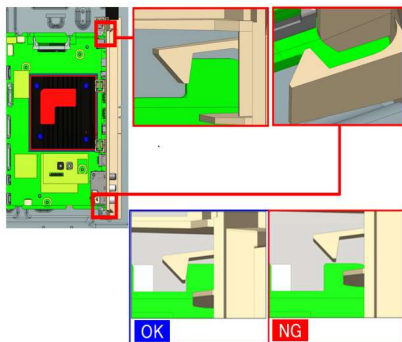
Information



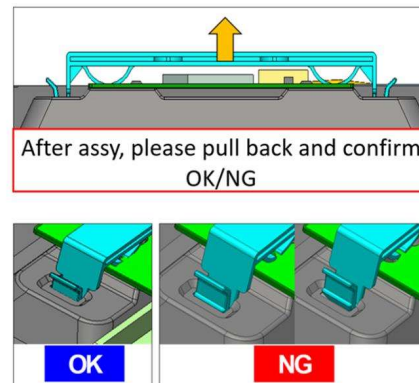
Connect



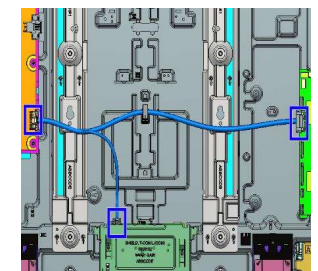
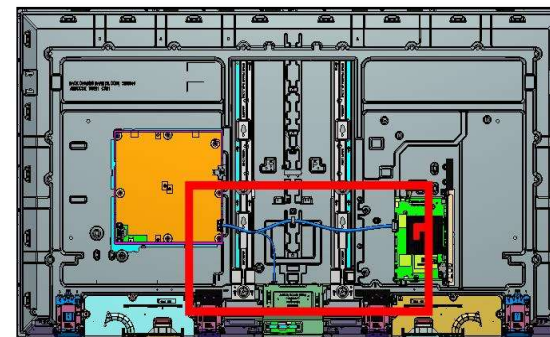
Information



Information



Connect



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

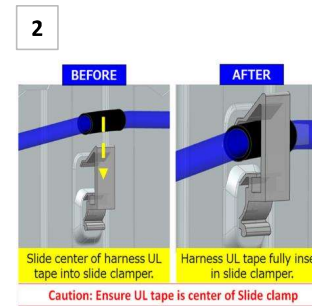
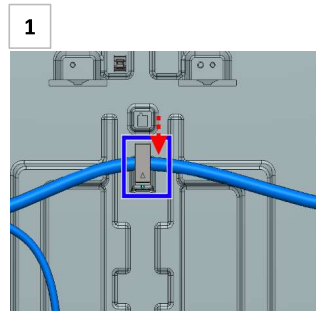
SECTION 6

SMART CORE

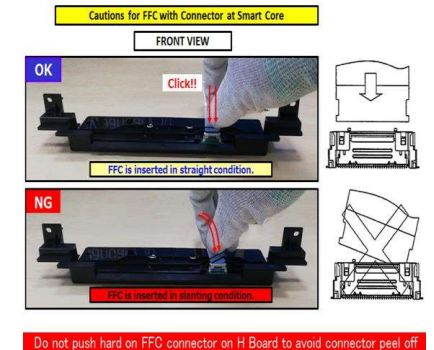
SECTION 5 KD-75X85J

5-3. WIRE DRESSING

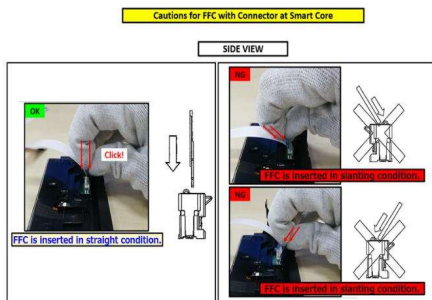
Wire Dressing



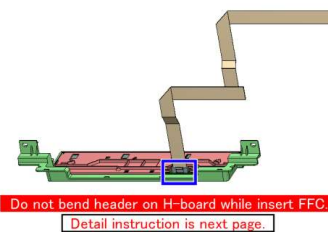
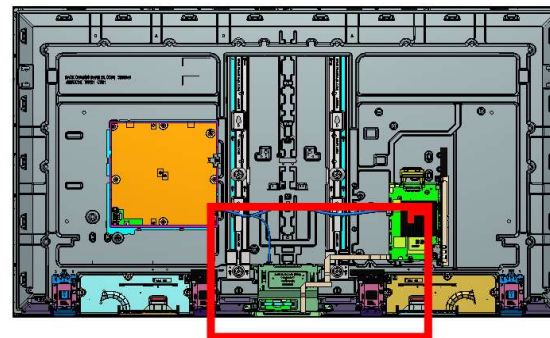
Information



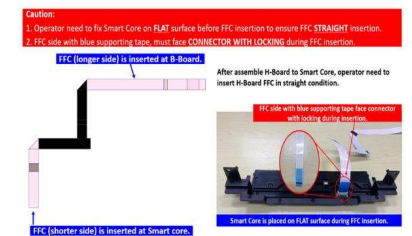
Information



Connect



Information

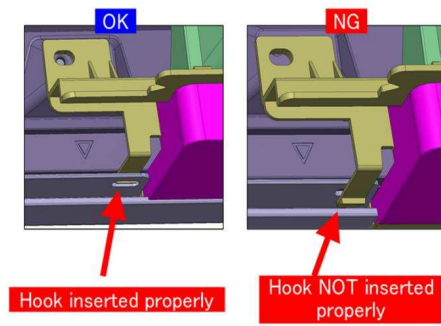


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

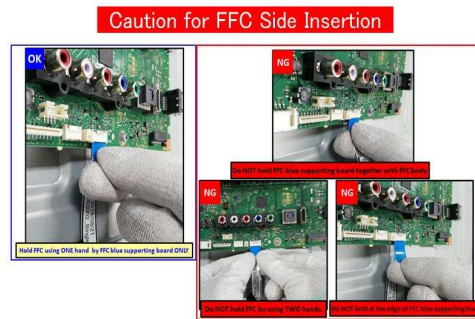
SECTION 5 KD-75X85J

5-3. WIRE DRESSING

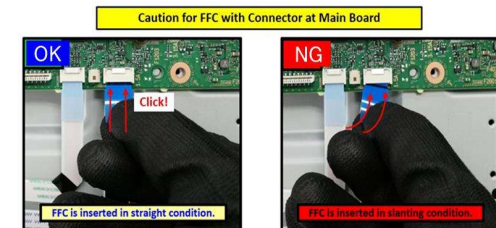
Information



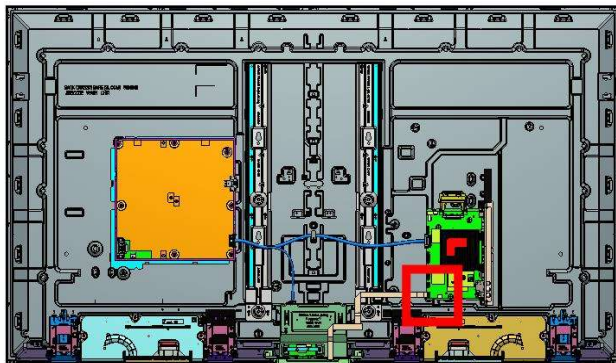
Information



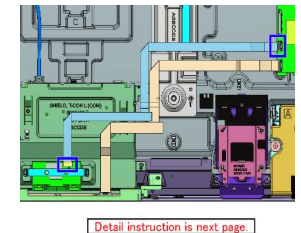
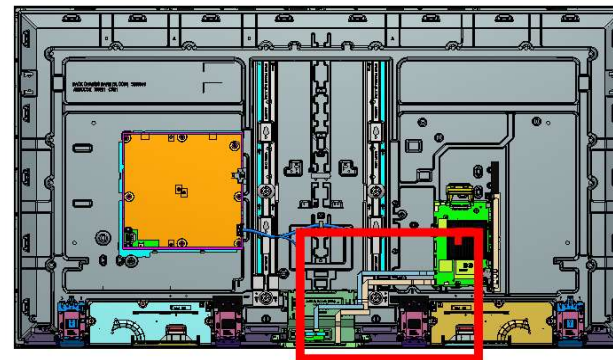
Information



Connect



Connect

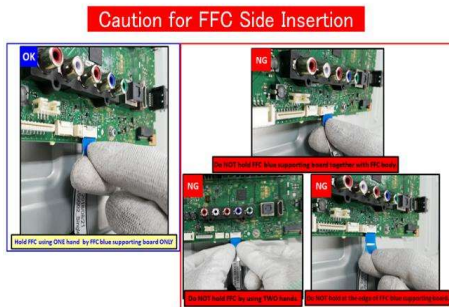


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

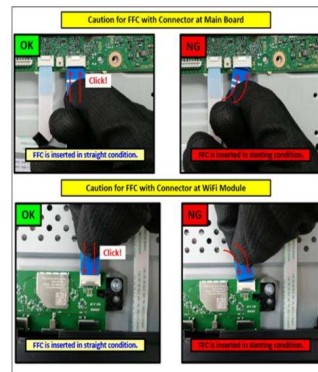
SECTION 5 KD-75X85J

5-3. WIRE DRESSING

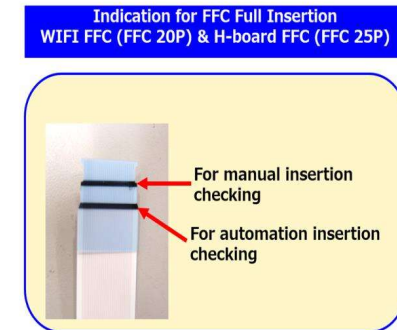
Information



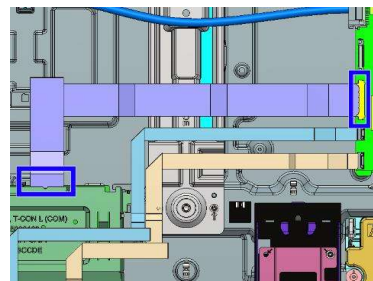
Information



Information



Connect

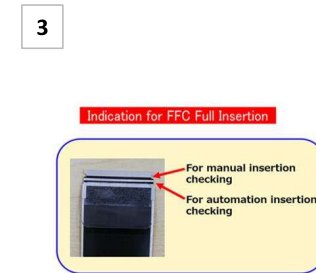
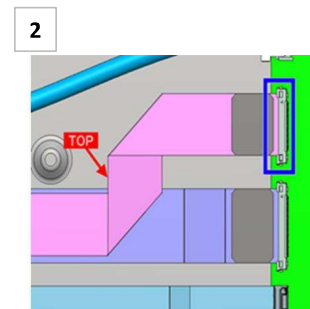
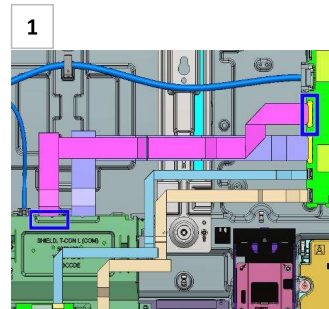


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

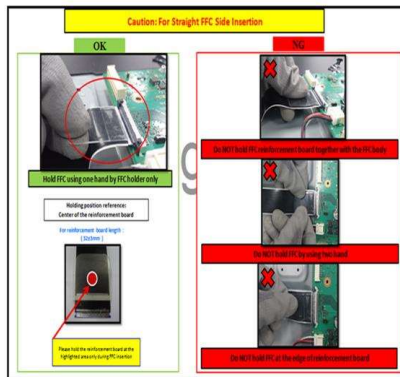
SECTION 5 KD-75X85J

5-3. WIRE DRESSING

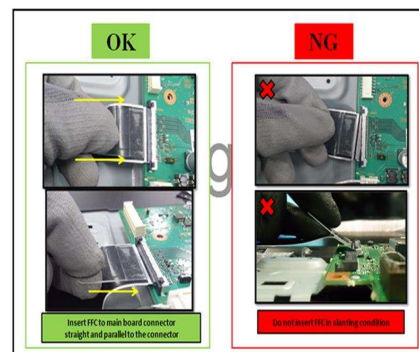
Connect



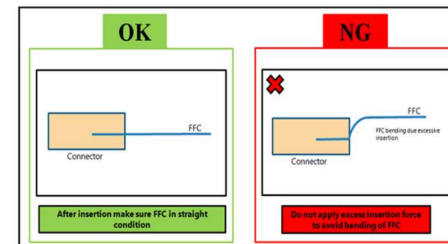
Information



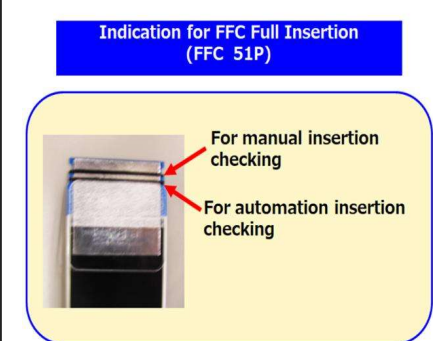
Information



Information



Information



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

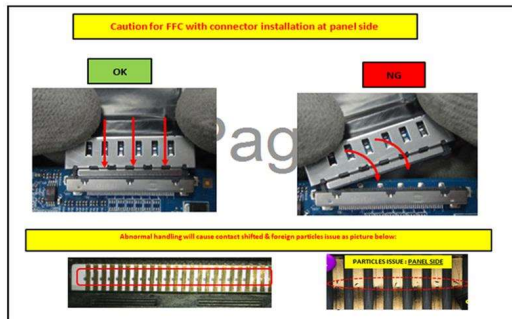
SECTION 6

SMART CORE

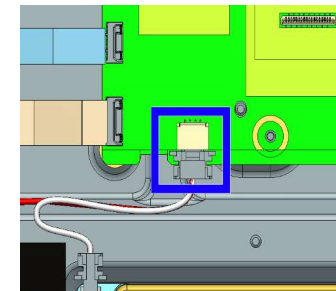
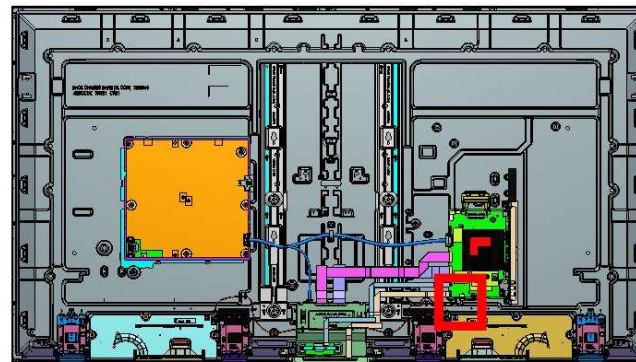
SECTION 5 KD-75X85J

5-3. WIRE DRESSING

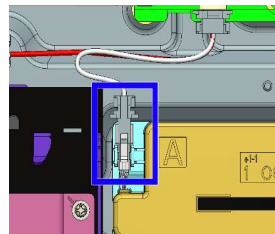
Information



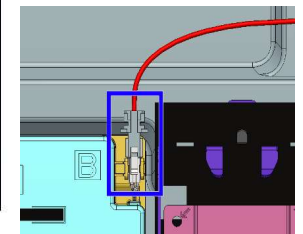
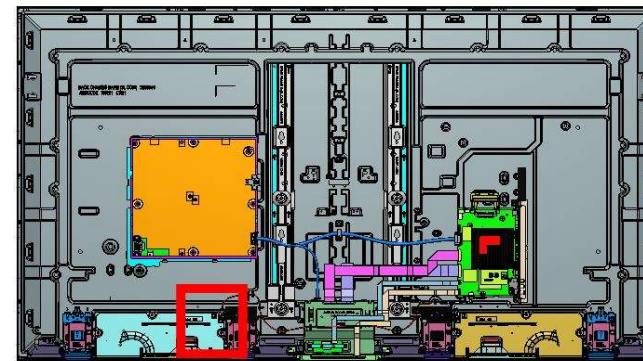
Connect



Connect



Connect

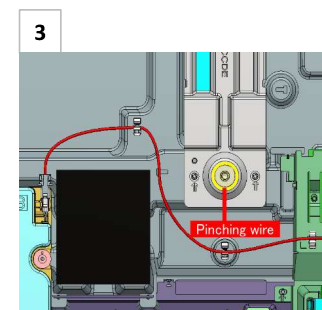
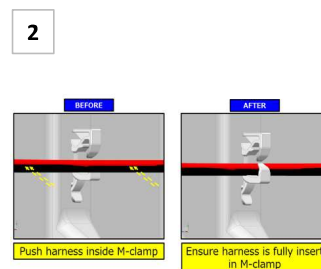
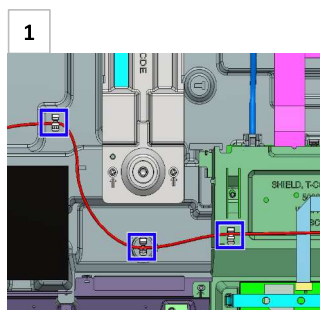


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

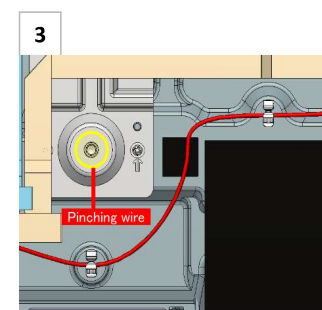
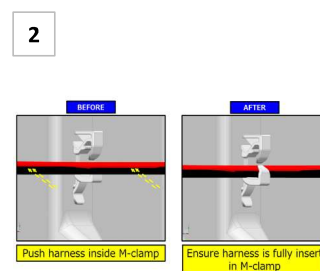
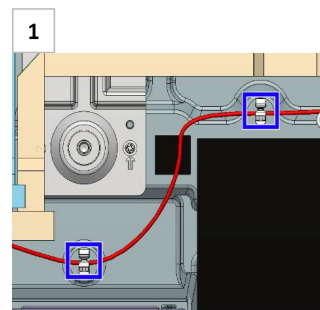
SECTION 5 KD-75X85J

5-3. WIRE DRESSING

Wire Dressing



Wire Dressing

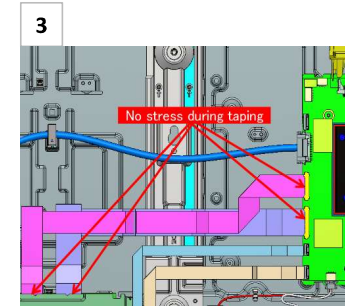
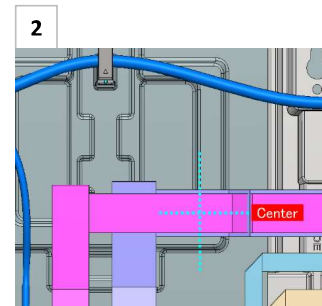
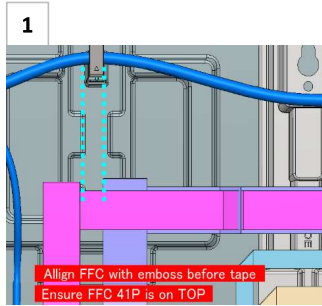
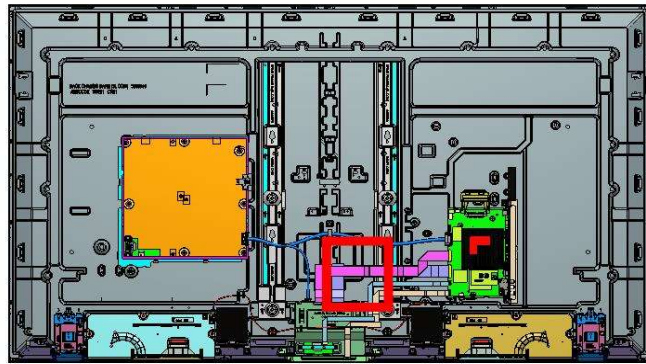


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

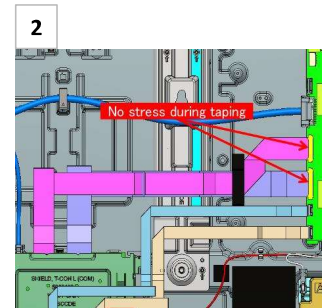
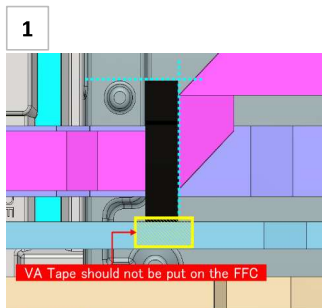
SECTION 5 KD-75X85J

5-3. WIRE DRESSING

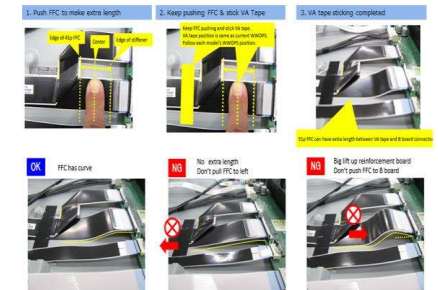
Tape



Tape



Information

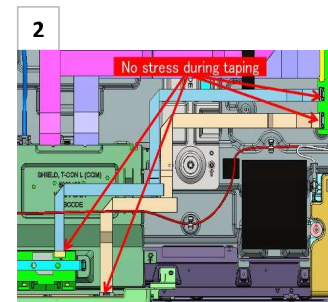
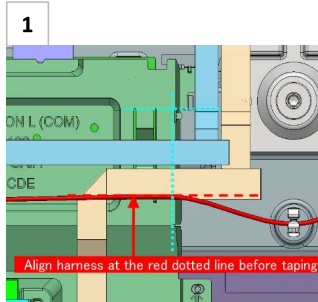
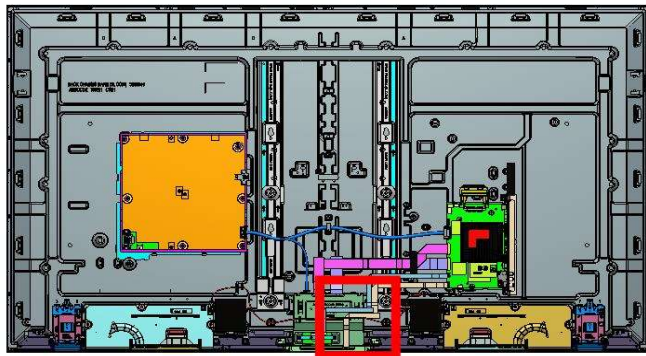


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

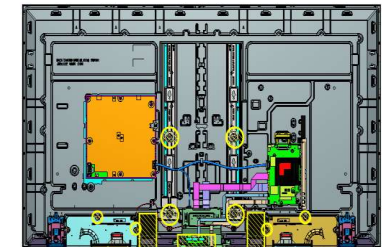
SECTION 5 KD-75X85J

5-3. WIRE DRESSING

Tape



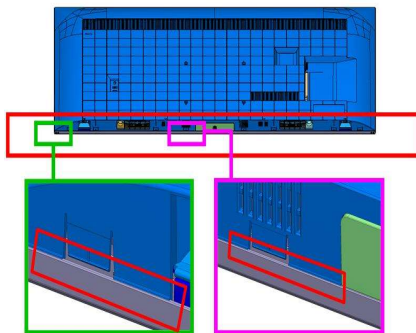
Information



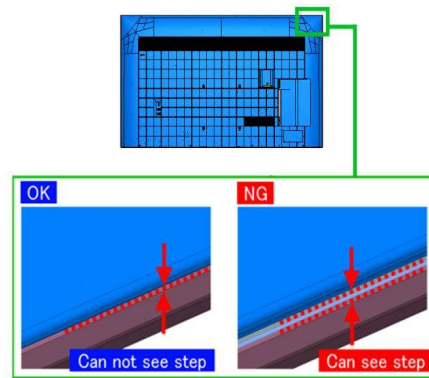
Caution : Keep harness away from Inhibit Area

Information

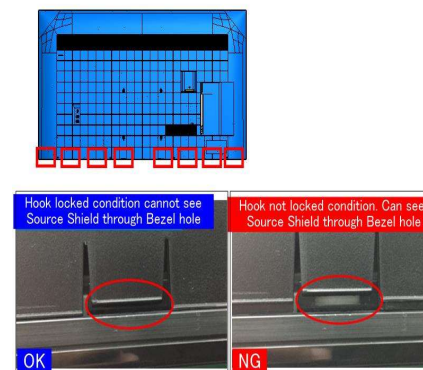
Align Rear cover bottom fin to Bezel slot



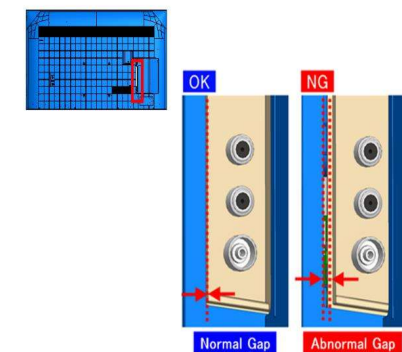
Information



Information





Information



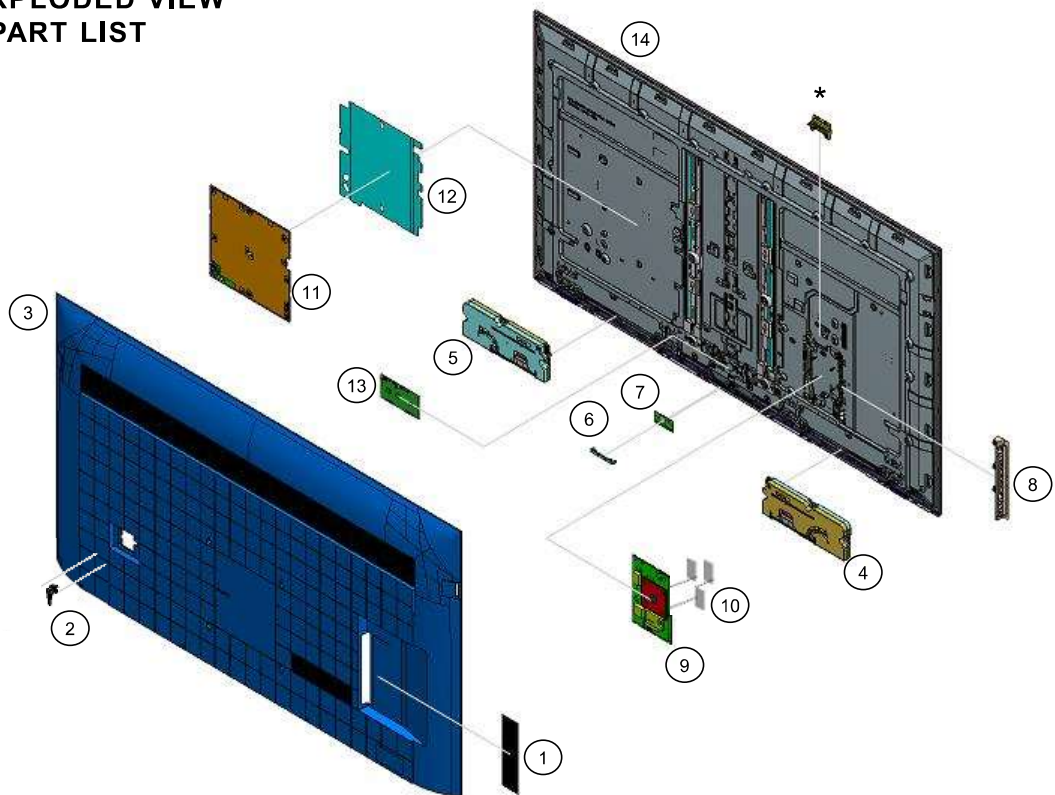
TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

SECTION 5 KD-75X85J

- 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

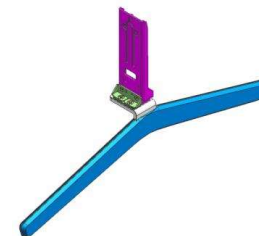
5-4 EXPLODED VIEW AND PART LIST



* Only on limited region / country / TV model

Stand

(15) (16)



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4






SECTION 5

SECTION 6

SMART CORE

SECTION 5 KD-75X85J

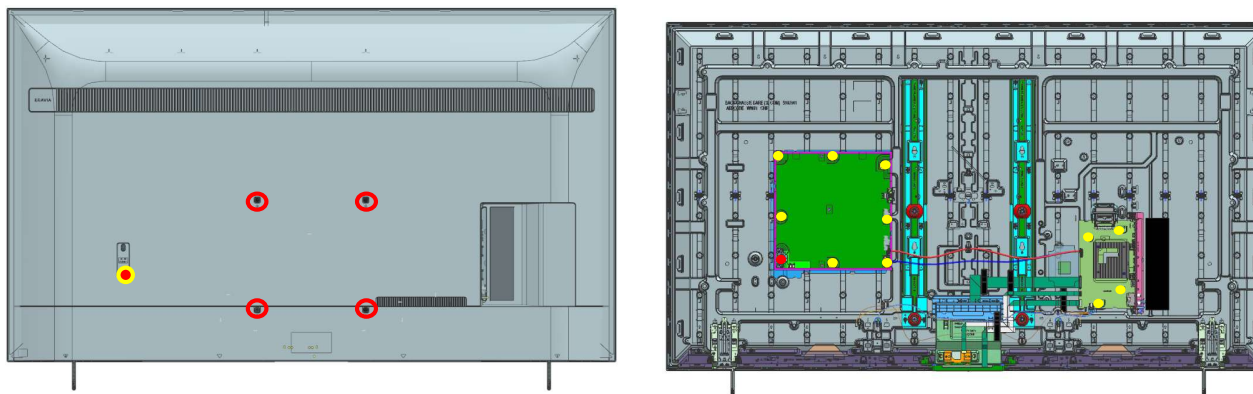
SET PART LIST

REF. NO	PART NO.	DESCRIPTION	KD-75X85J
			UCM
1	5-024-894-51	LABEL, SIDE TERMINAL (RIS)	•
 2	1-005-642-11	C7L AC POWER CORD SETS (US)	•
3	5-027-821-21	REAR COVER ASSY (3L LYX)	•
4	1-004-511-12	SP-BOX ASSY,FY20 W30XL-A	•
5	1-004-511-22	SP-BOX ASSY,FY20 W30XL-B	•
6	5-009-258-11	BRACKET, WIFI(BNN)	•
6	5-009-258-21	BRACKET, WIFI(BNN) - Optional	•
 7	1-005-419-31	WLAN/BT MODULE(11AC)FXC	•
8	5-021-551-31	BRACKET SIDE (BNN) A	•
 9	A-5027-359-A	COMPL_SVC_BM5A_AX_UCM	•
10	4-457-451-11	SHEET, THERMAL (BAF)	•
 11	1-004-424-41	GL03BP-STATIC CONVERTER (TV)	•
12	5-027-742-11	SHEET, INSULATION (3L PHN) A	•
13	1-011-260-21	MOUNTED PWB E-T-CON (75)	•
 14	A-5027-719-A	P-MOD (YDBM075CCS02)	•
15	5-022-231-11	STAND, L (3L LYX) A	•
16	5-022-232-11	STAND, R (3L LYX) A	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

SECTION 5 KD-75X85J

SCREW

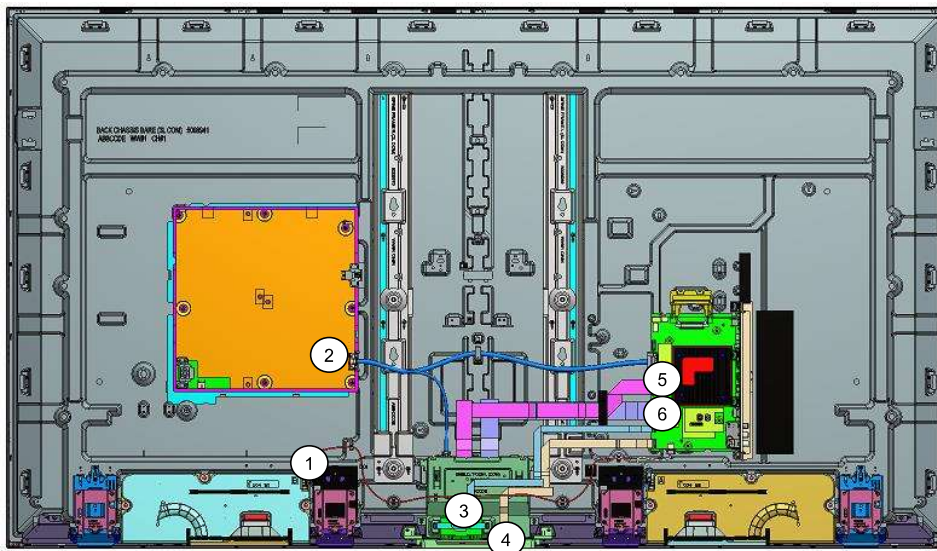


REMARK	P/N	DESCRIPTION	QUANTITY	TORQUE
○	5-015-521-01	SCREW +PSW M6x16 W14	4	0.4 ± 0.05 N.m
●	4-579-926-01	SCREW M3x3.0 STEP	1	0.4 ± 0.05 N.m
●	4-472-518-11	SCREW, +PSW M3X6	11	1.2 ± 0.1 N.m
●	2-580-592-01	SCREW, +PSW M3X8	1	0.4 ± 0.05 N.m

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

SECTION 5 KD-75X85J

CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-006-514-12	CONNECTOR ASSY 4P (SP)	CN3550(BM5A)/CN6603(BM5ST)-SP(1)
2	1-011-594-11	CONNECTOR ASSY 30P	CN1701(BM5A)-CN6401(GL)-CON3(TCON)(1)
3	1-006-505-11	FLEXIBLE FLAT CABLE 20P	CN3801(BM5A)-J1(WIFI/BT)(1)
4	1-006-510-11	FLEXIBLE FLAT CABLE 25P	CN1200(BM5A)-CN102(HT2)(1)
5	1-011-598-11	FLEXIBLE FLAT CABLE 41P	CN4201(BM5A)-TCON(1)
6	1-010-542-11	FLEXIBLE FLAT CABLE 51P	CN4200(BM5A)-U1(T-CON)(1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

SECTION 5 KD-75X85J

OTHER PARTS

PART NO.	DESCRIPTION	KD-75X85J	REMARKS
		UCM	
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	
5-022-248-11	BAG, CL ASSY (3L LYX)	•	Including CLAMPER (4L LYX) (Qty 2) & CUSHION CL (LYX) (Qty 2)
4-744-177-01	GASKET SB (3L BGO)	•	
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	•	
*5-024-884-11	REFERENCE GUIDE	•	
*5-024-887-11	SETUP GUIDE	•	
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	
5-009-861-02	VESA SPACER A (COM)	•	Screw Extension for Fall Lock and Wall Mount (Qty 1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	------------------	-----------	------------

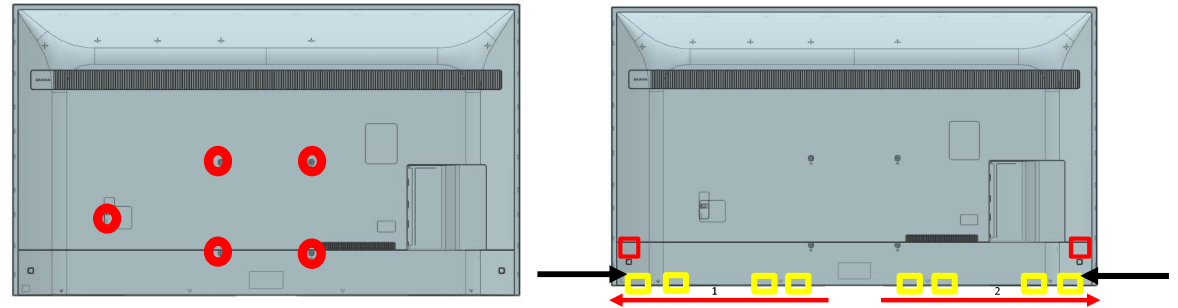
SECTION 6 KD-85X85J

6-1. DISASSEMBLY AND REMOVAL CAUTION

Rear Cover

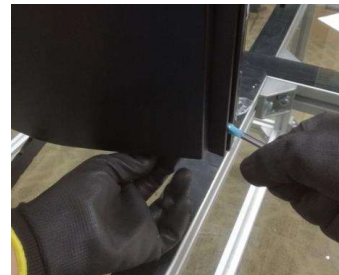
1. Remove screw from rear cover.

2. Unhook bottom hook, starting from center.



- ① When unhooking, pull RC to ensure hook doesn't lock back.
- ② When releasing outer most hook, insert jig and unhook first Rear Cover-Back Chassis hook.

Ruler or jig to release corner hook/ side BZ-RC hook
 *Wrap jig with tape to prevent scratch on AI bezel
 *Thickness approximately 1.2mm



Coin or jig to unhook bottom RC-BZ hook
 *Wrap coin in VA tape (55mmX25mm)



Legend

- = Bottom Back Chassis-Rear Cover Hook
- = Back Chassis-Rear Cover Hook

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

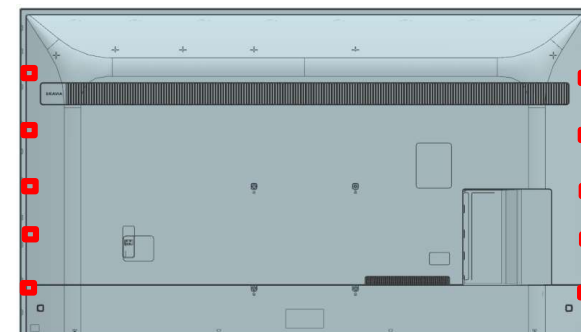
SECTION 6 KD-85X85J

6-1. DISASSEMBLY AND REMOVAL CAUTION

Bottom Hook Position

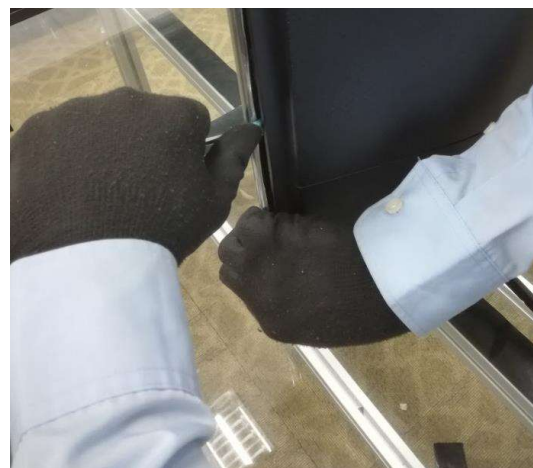
3. Unhook corner hook

Total Back Chassis-Rear Cover Hooks
(Left/Right Side) :
5 hooks



- 1) Grip Rear Cover with hand and unhook Rear Cover-Back Chassis hook using a ruler.
- 2) Flex the Rear Cover outwards to unlock hook.

Legend
■ =Back Chassis-Rear Cover Hook



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE

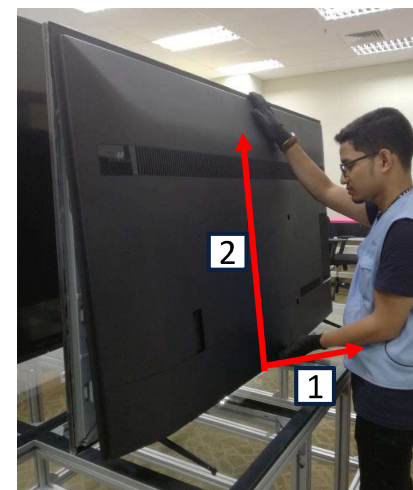
SECTION 6 KD-85X85J

6-1. DISASSEMBLY AND REMOVAL CAUTION

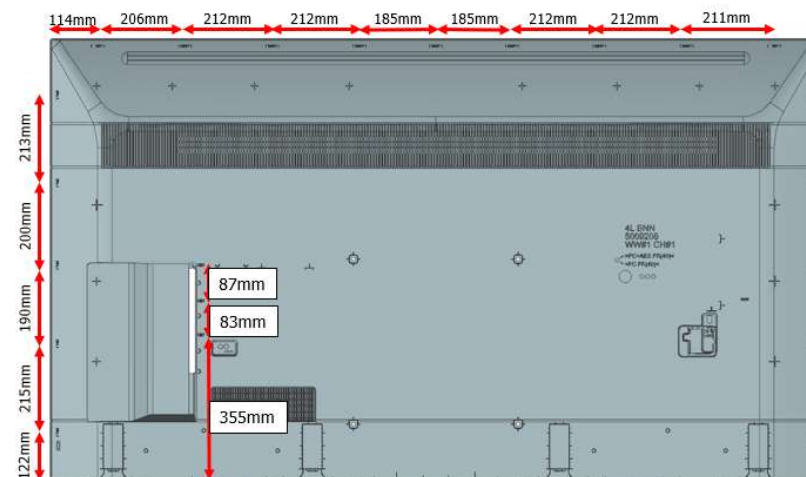
4. Unhook top Rear Cover – Bezel Hook

Total Back Chassis –Rear Cover Hooks (Top Side) :
For 85"= 9 hooks

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



Hook Positioning



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

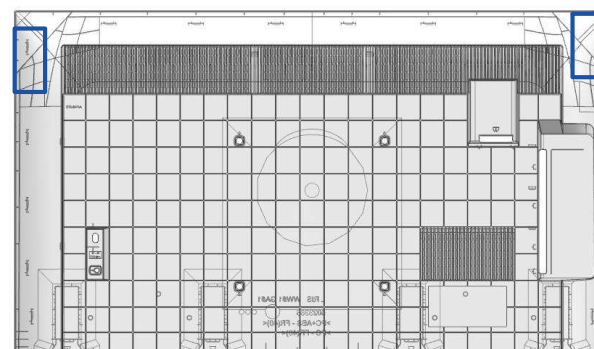
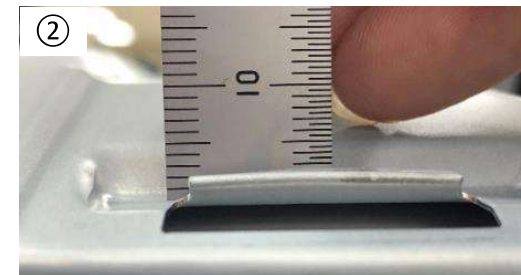
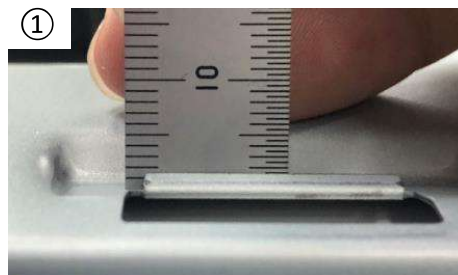
SECTION 6 KD-85X85J

6-1. DISASSEMBLY AND REMOVAL CAUTION

Caution Point :

- ① Back Chassis in good condition if Top side hook unhook then proceed Top hooks

- ② Back Chassis in good condition if Top side hook unhook then proceed Top hooks



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

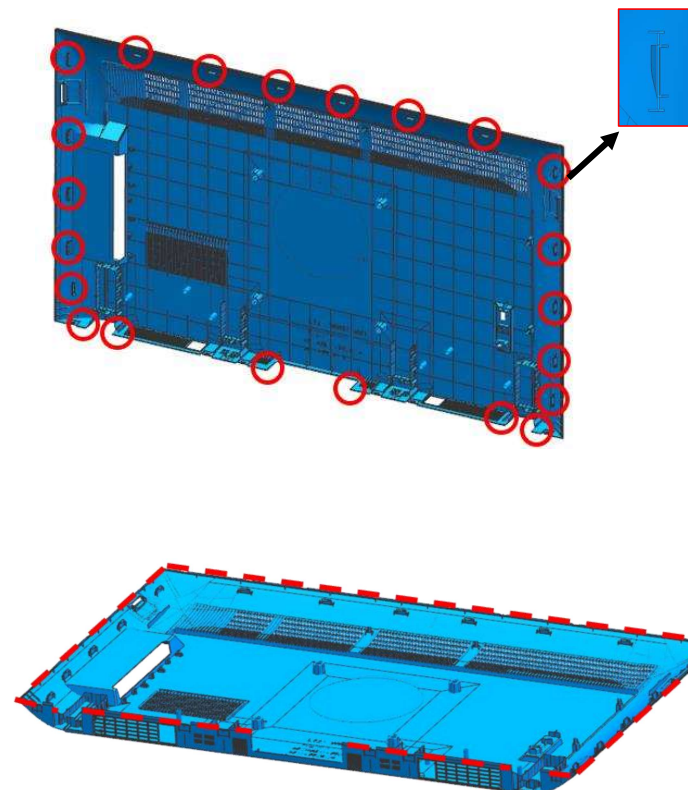
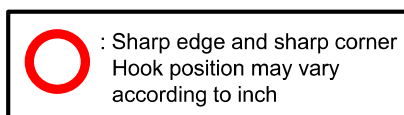
SECTION 6 KD-85X85J

6-1. DISASSEMBLY AND REMOVAL CAUTION

Sharp Edge Information

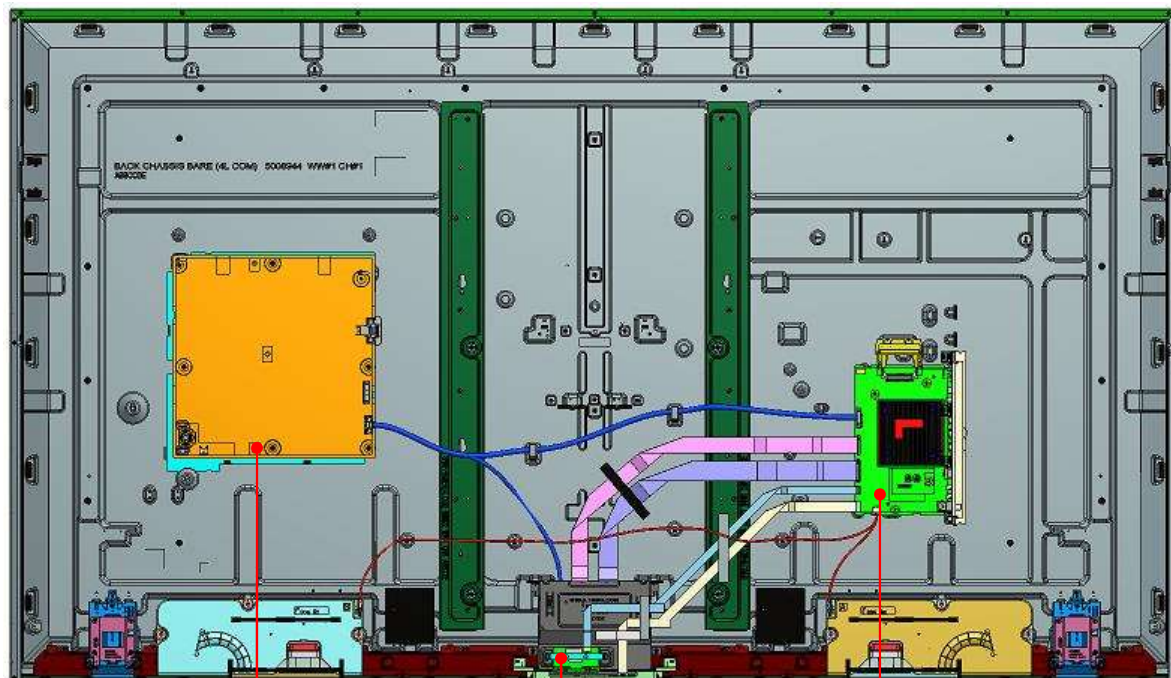
Caution Point :

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



SECTION 6 KD-85X85J

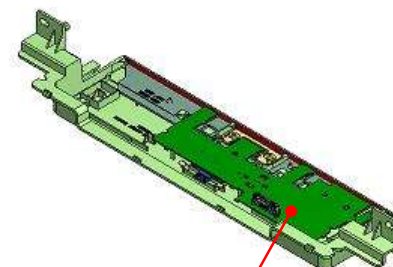
6-2. BOARD LOCATION



POWER BOARD

WLAN BOARD

MAIN BOARD



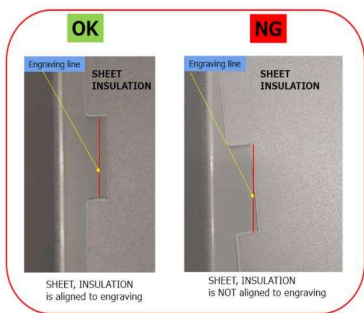
RECEIVER BOARD

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

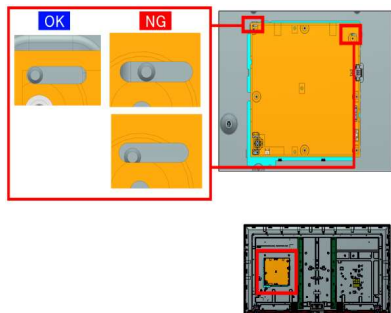
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

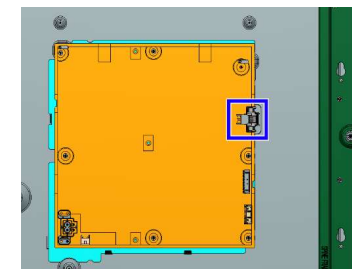
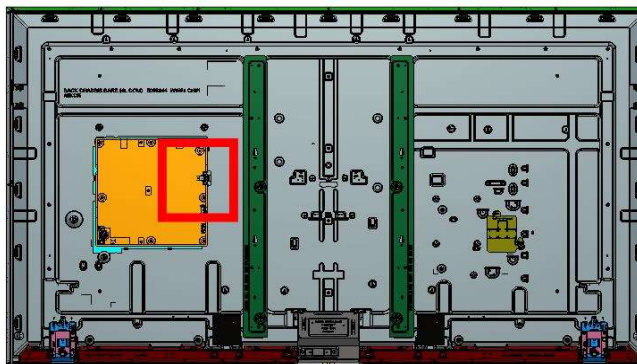
Information



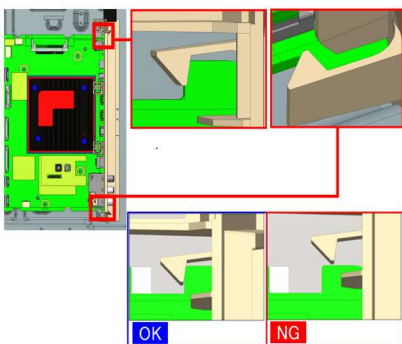
Information



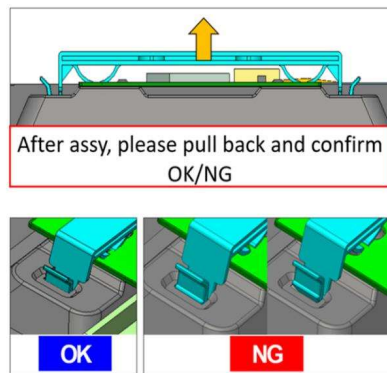
Connect



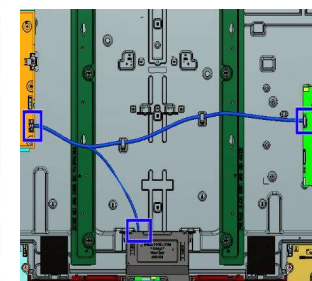
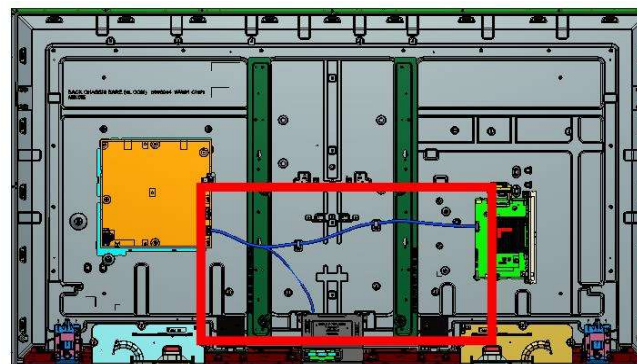
Information



Information



Connect



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

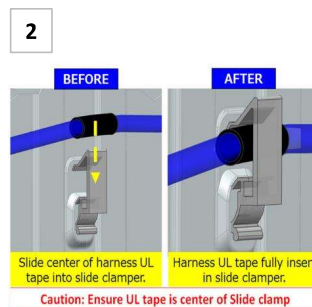
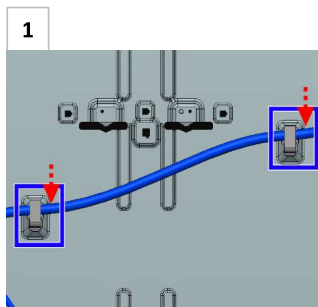
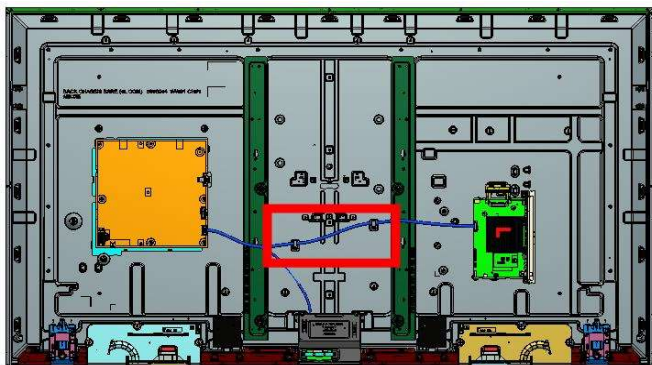
SECTION 6

SMART CORE

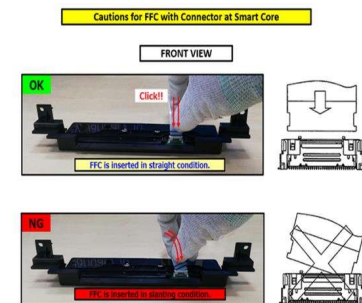
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

Wire Dressing

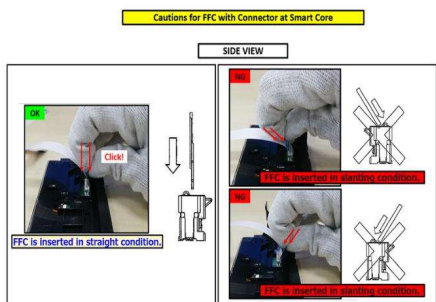


Information



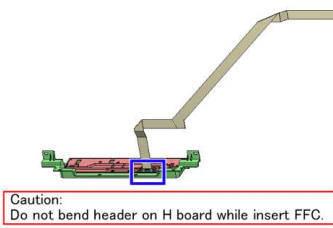
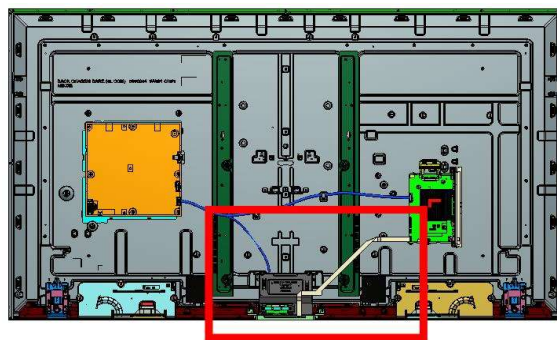
* Do not push hard on FFC connector on H Board to avoid connector peel off

Information

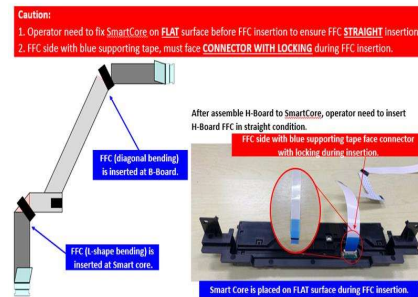


* Do not push hard on FFC connector on H Board to avoid connector peel off

Connect



Information

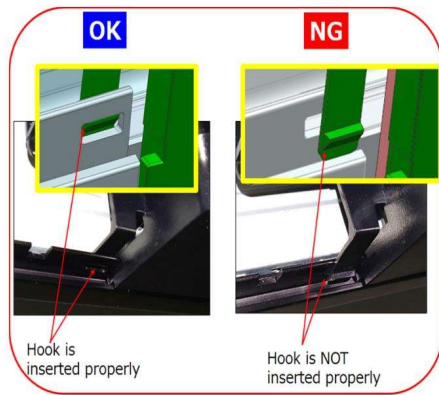


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	-----------	------------

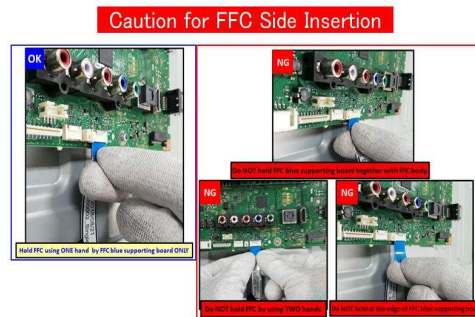
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

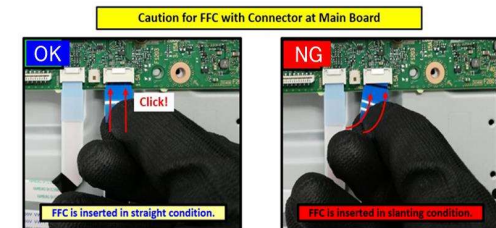
Information



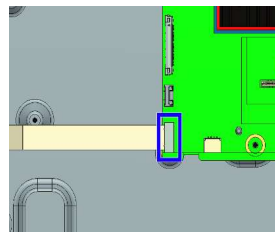
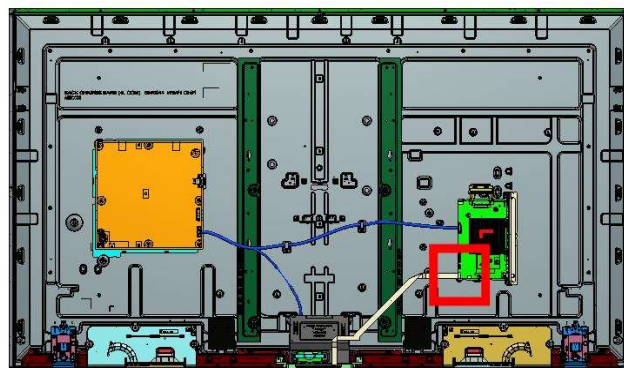
Information



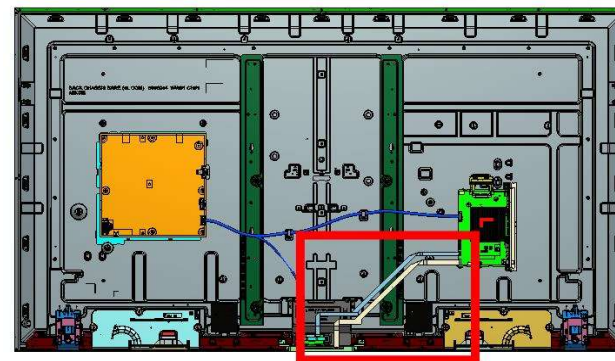
Information



Connect



Connect

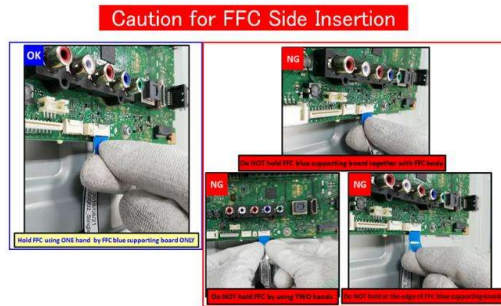


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

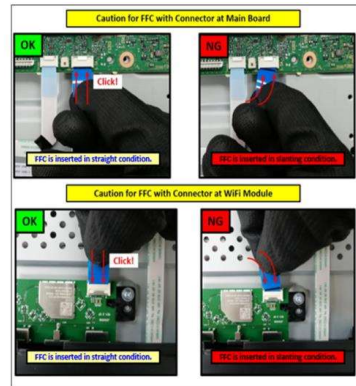
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

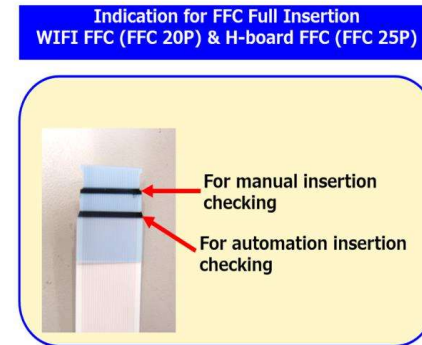
Information



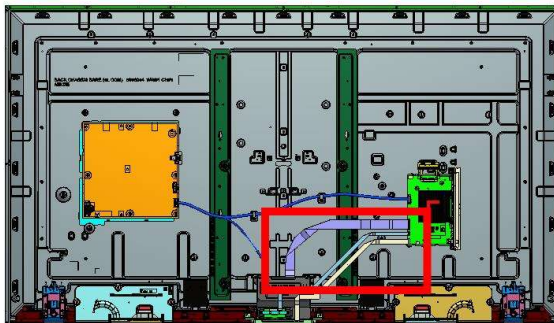
Information



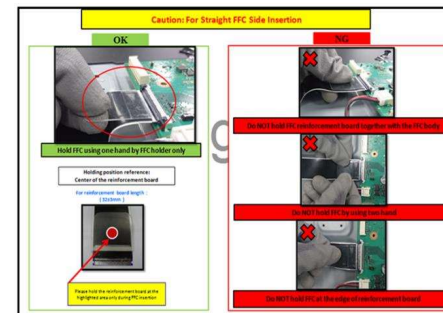
Information



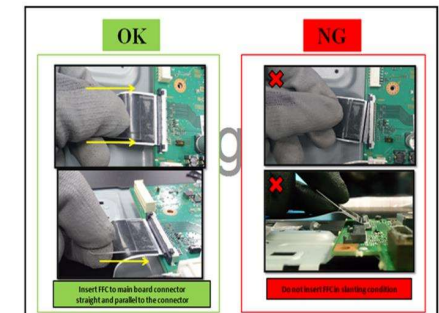
Connect



Information



Information



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

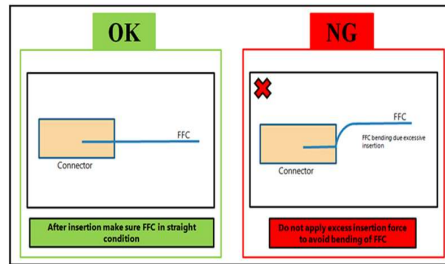
SECTION 6

SMART CORE

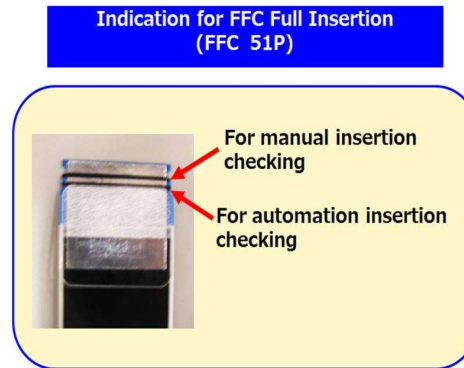
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

Information



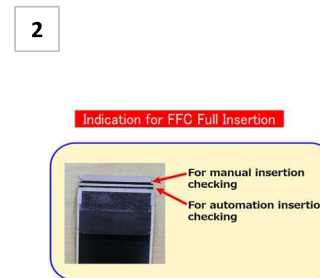
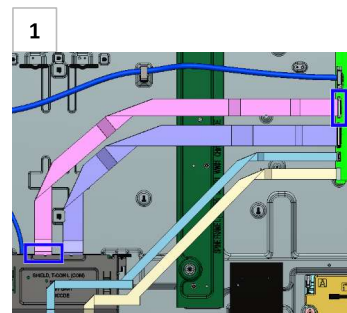
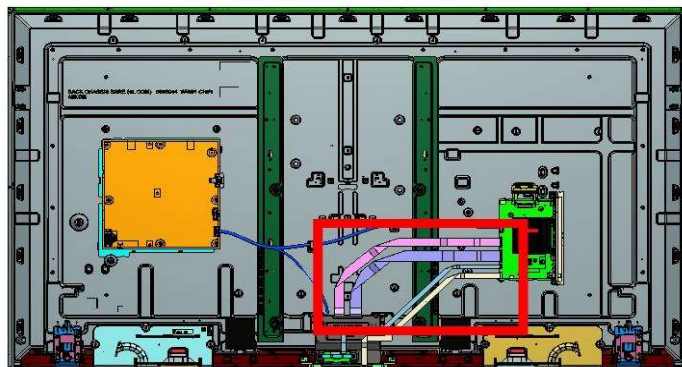
Information



Information



Tape

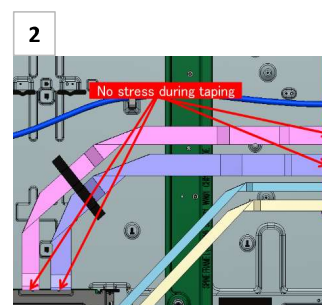
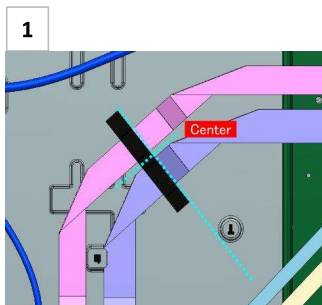
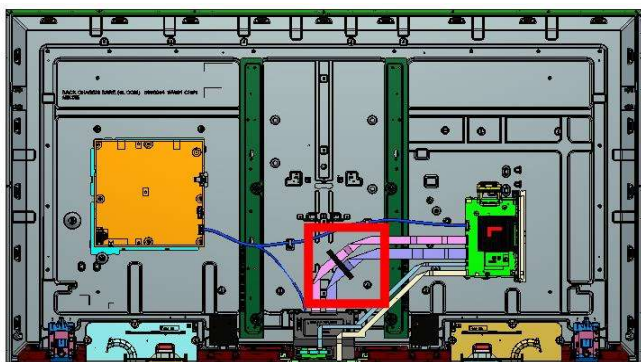


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

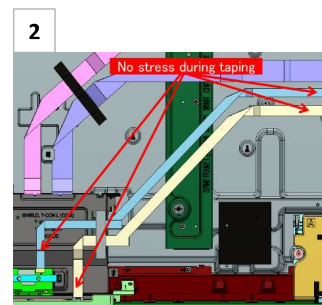
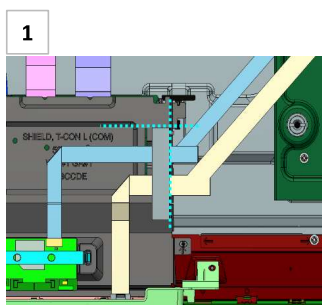
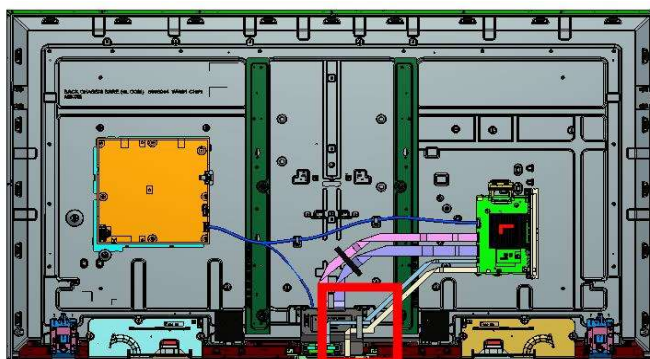
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

Tape



Tape



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

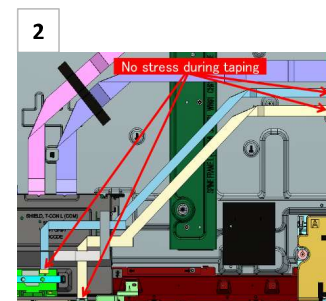
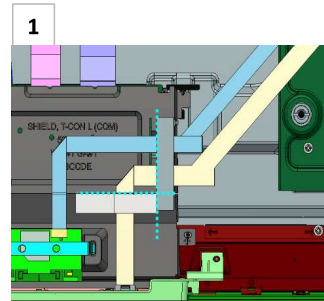
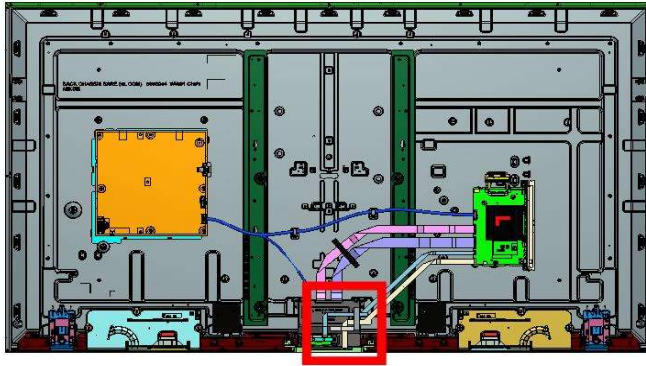
SECTION 6

SMART CORE

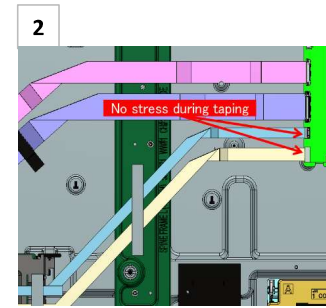
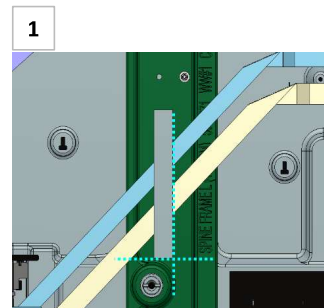
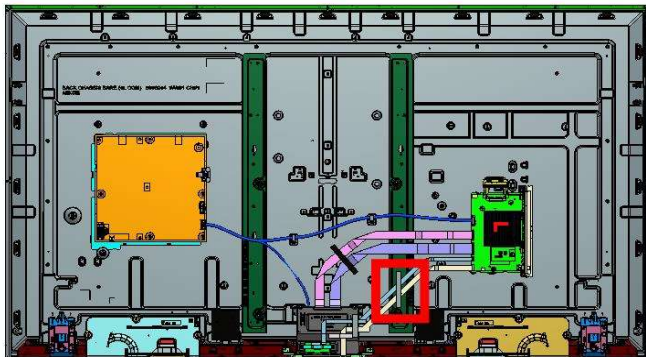
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

Tape



Tape

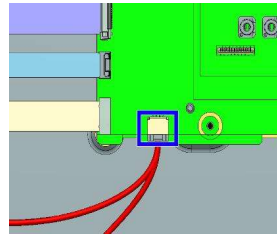
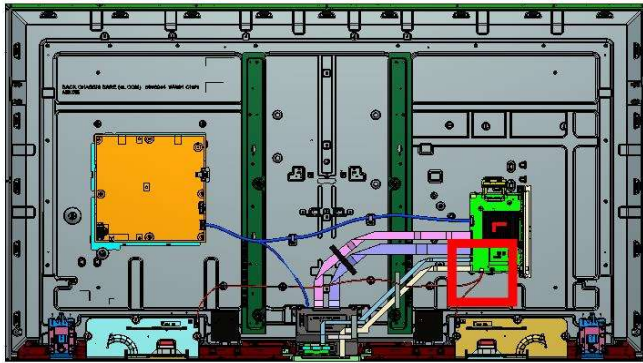


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

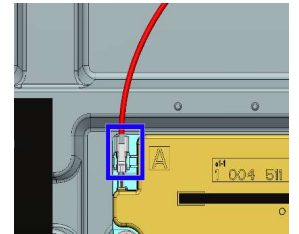
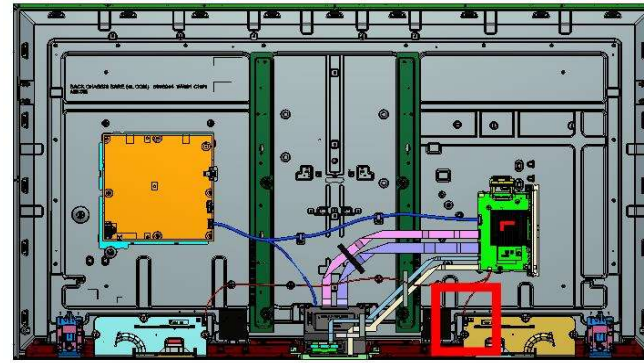
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

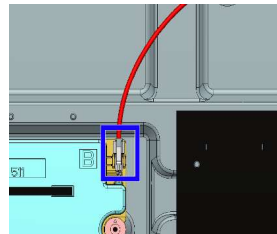
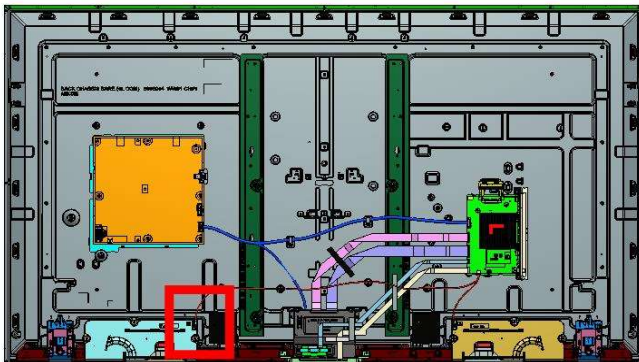
Connect



Connect



Connect

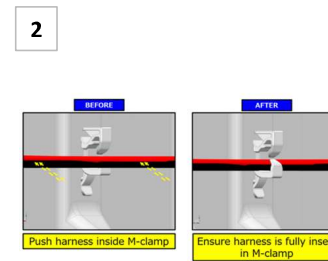
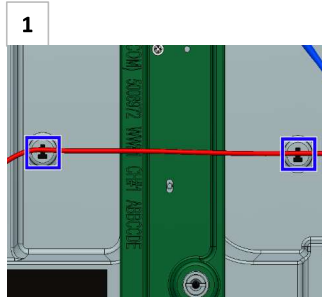
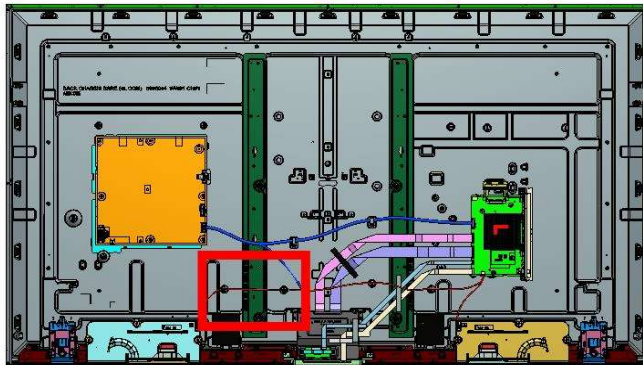


TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

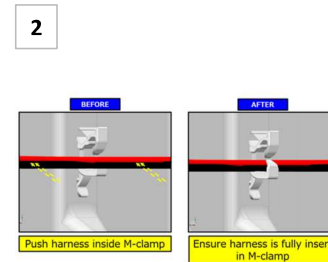
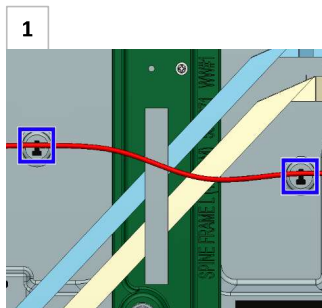
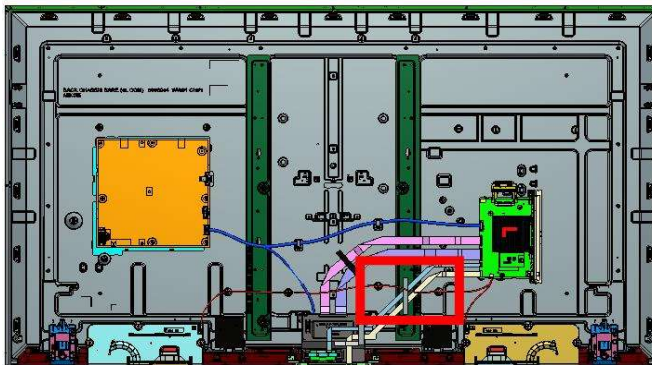
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

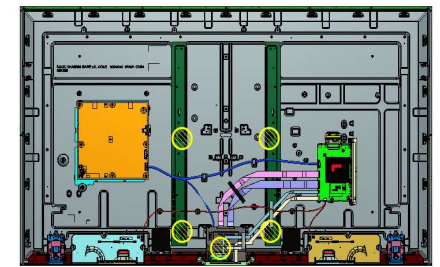
Wire Dressing



Wire Dressing



Information



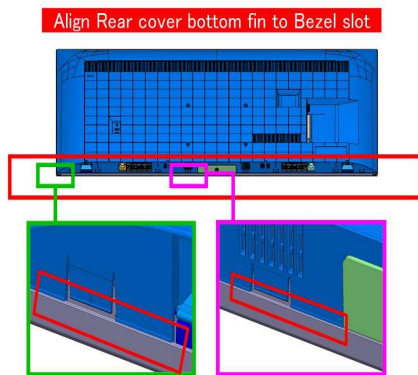
Caution : Keep harness away from Inhibit Area

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

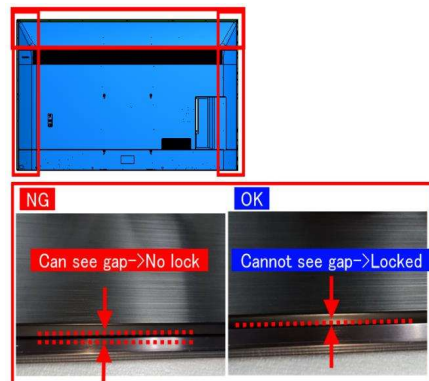
SECTION 6 KD-85X85J

6-3. WIRE DRESSING

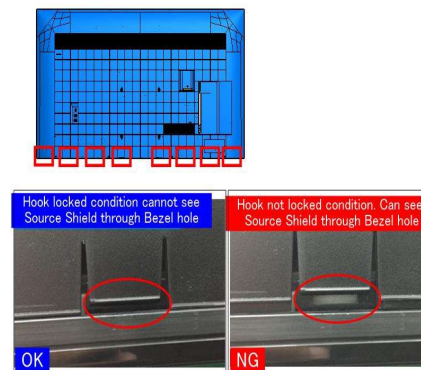
Information



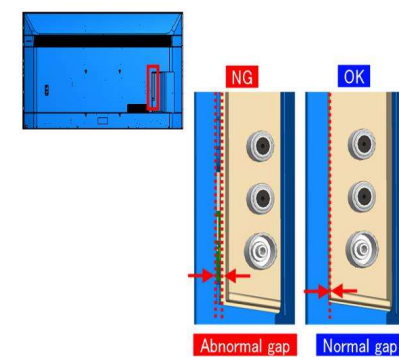
Information



Information





Information



TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

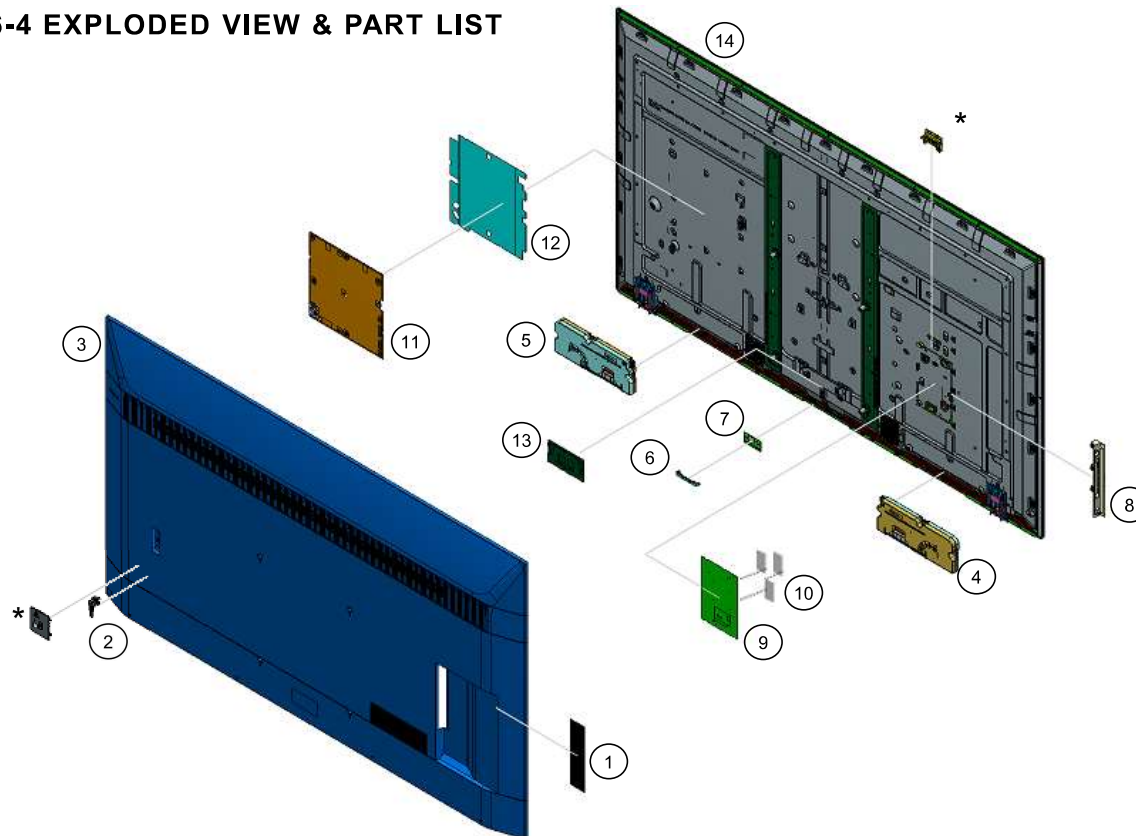
SECTION 6 KD-85X85J

- 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

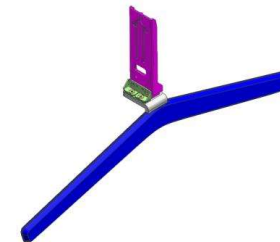
6-4 EXPLODED VIEW & PART LIST

* Only on limited region / country / TV model



Stand

(15) (16)



TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4






SECTION 5

SECTION 6

SMART CORE

SECTION 6 KD-85X85J

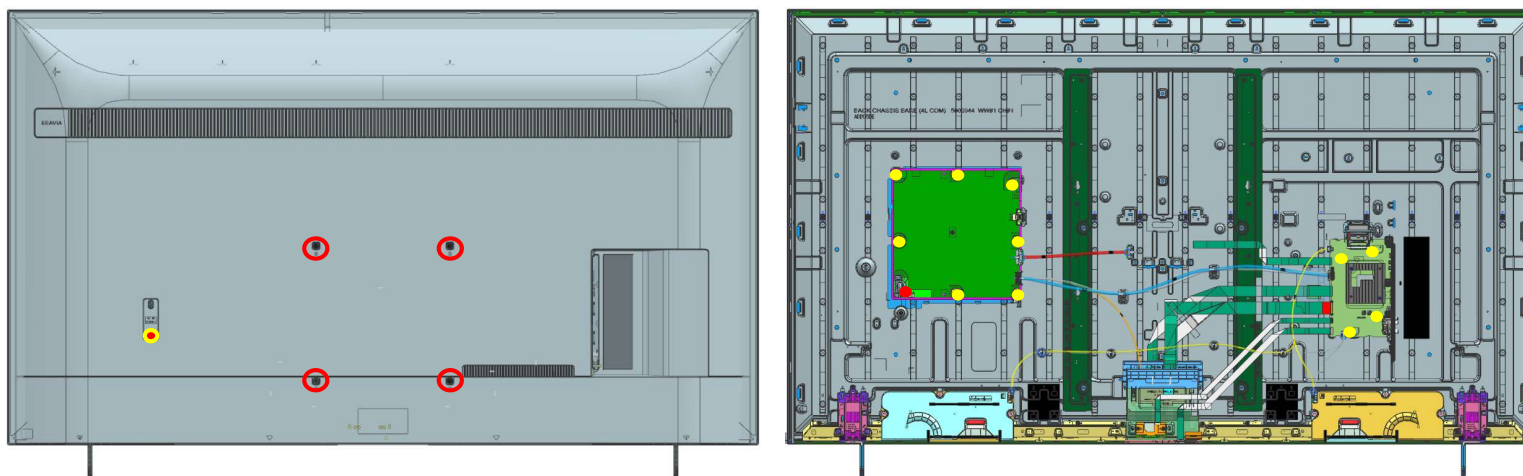
SET PART LIST

REF. NO	PART NO.	DESCRIPTION	KD-85X85J
			UCM
1	5-024-894-01	LABEL, SIDE TERMINAL (RIS)	•
 2	1-005-642-11	C7L AC POWER CORD SETS (US)	•
3	5-009-215-13	REAR COVER (4L BNN) A	•
4	1-004-511-12	SP-BOX ASSY,FY20 W30XL-A	•
5	1-004-511-22	SP-BOX ASSY,FY20 W30XL-B	•
6	5-009-258-11	BRACKET, WIFI(BNN)	•
6	5-009-258-21	BRACKET, WIFI(BNN) - Manual	•
 7	1-005-419-31	WLAN/BT MODULE(11AC)FXC	•
8	5-021-551-31	BRACKET SIDE (BNN) A	•
 9	A-5027-359-A	COMPL_SVC_BM5A_AX_UCM	•
10	4-457-451-11	SHEET, THERMAL (BAF)	•
 11	1-004-424-41	GL03BP-STATIC CONVERTER (TV)	•
12	5-027-742-11	SHEET, INSULATION (3L PHN) A	•
13	1-011-391-11	MOUNTED PWB E-T-CON (85)	•
 14	A-5027-713-A	P-MOD (YDBM085CNU02)	•
15	5-022-250-11	STAND, L (4L LYX) A	•
16	5-022-251-11	STAND, R (4L LYX) A	•

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

SECTION 6 KD-85X85J

SCREW

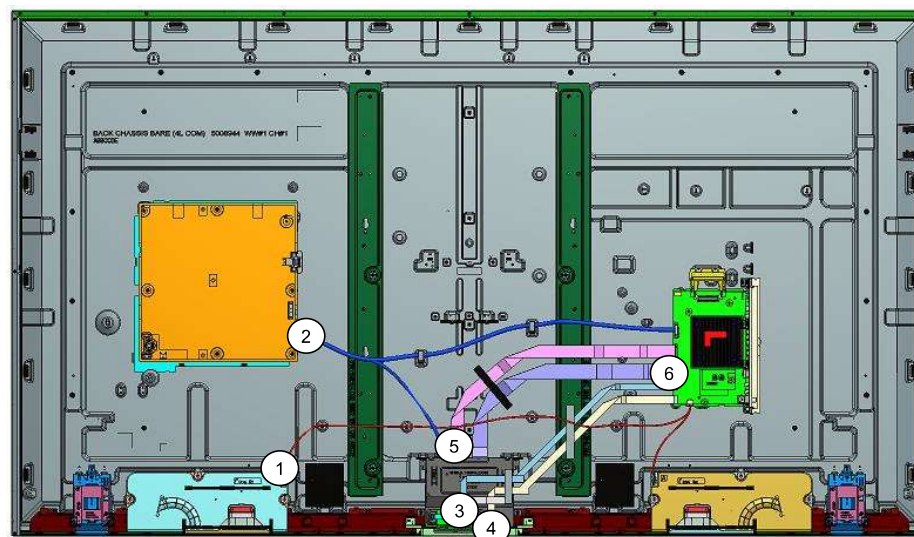


REMARK	P/N	DESCRIPTION	QUANTITY	TORQUE
○	5-015-521-01	SCREW +PSW M6x16 W14	4	0.4 ± 0.05 N.m
●	4-579-926-01	M3x3.0 STEP	1	-
●	4-472-518-11	SCREW, +PSW M3X6	11	0.4 ± 0.05 N.m
●	2-580-592-01	SCREW, +PSW M3X8	1	-

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

SECTION 6 KD-85X85J

CONNECTOR



REF. NO	PART NO.	DESCRIPTION	REMARKS
1	1-006-517-11	CONNECTOR ASSY 4P (SP)	CN3550(BM5A)-SP(1)
2	1-011-595-11	CONNECTOR ASSY 30P	CN1701(BM5A)-CN6401(G)(1)
3	1-006-521-11	FLEXIBLE FLAT CABLE 20P	CN1200(BM5A)-WIFI(1)
4	1-011-605-11	FLEXIBLE FLAT CABLE 25P	CN1201(BM5A)-CN102(HT2)(1)
5	1-011-601-11	FLEXIBLE FLAT CABLE 41P	CN4200(BM5A)-(T-CON)(1)
6	1-006-519-11	FLEXIBLE FLAT CABLE 51P	CN4200(BM5A)-(T-CON)(1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

SECTION 6 KD-85X85J

OTHER PARTS

PART NO.	DESCRIPTION	KD-85X85J	REMARKS
		UCM	
4-535-064-61	ASSY,FALL LOCK,BELT LL	•	
5-022-260-11	BAG, CL ASSY (4L LYX)	•	Including CLAMPER (4L LYX) , (Qty 2)
4-744-177-01	GASKET SB (3L BGO)	•	
1-009-952-11	REMOTE COMMANDER (RMF-TX520U)	•	
*5-024-884-11	REFERENCE GUIDE	•	
*5-024-887-11	SETUP GUIDE	•	
7-600-031-97	TAPE (3M 1350FB-1)15MMX66M BLK	•	
5-009-861-02	VESA SPACER A (COM)	•	Screw Extension for Fall Lock and Wall Mount , (Qty 1)

TOOLS & EQUIPMENTS	SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5	SECTION 6	SMART CORE
--------------------	-----------	-----------	-----------	-----------	-----------	------------------	------------

SMART CORE

43" / 50" / 55" / 65" / 75" / 85"

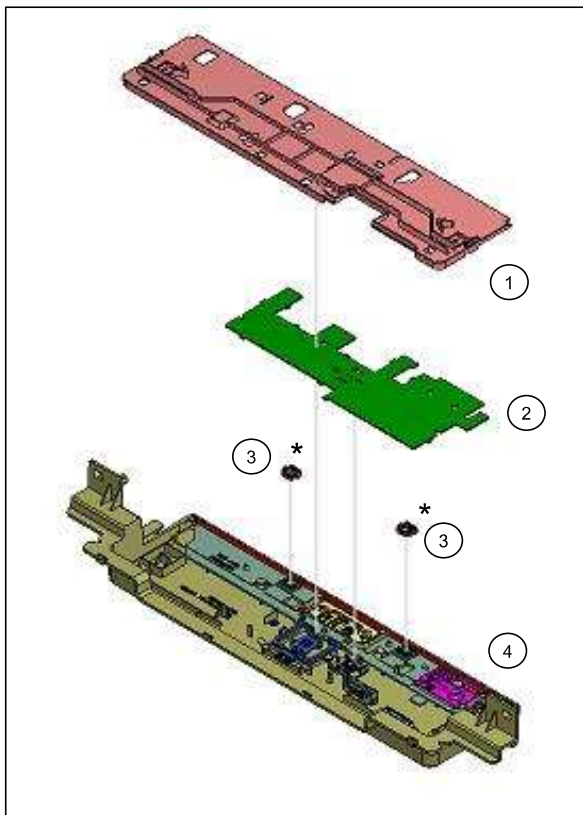


Illustration marked * is only for limited region/
country / TV model

REF. NO	PART NO.	DESCRIPTION	REMARKS
1	*5-024-516-22	COVER, TOP (COM)	
2	A-5028-234-A	HT2_WW_CT_PR MOUNT	
3	5-023-161-21	SILICON MIC(PHN)	-Not applicable for America region-
4	5-025-954-11	COVER, BTM(L RIS) A	55" / 65" / 75" / 85"
4	5-025-953-13	COVER, BTM (SM RIS) A	43" / 50"

TOOLS & EQUIPMENTS

SECTION 1

SECTION 2

SECTION 3

SECTION 4

SECTION 5

SECTION 6

SMART CORE

2024/01/13 10:32:03 (GMT+09:00)



9-888-796-U1

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

English
© 2023.12

SYS SET